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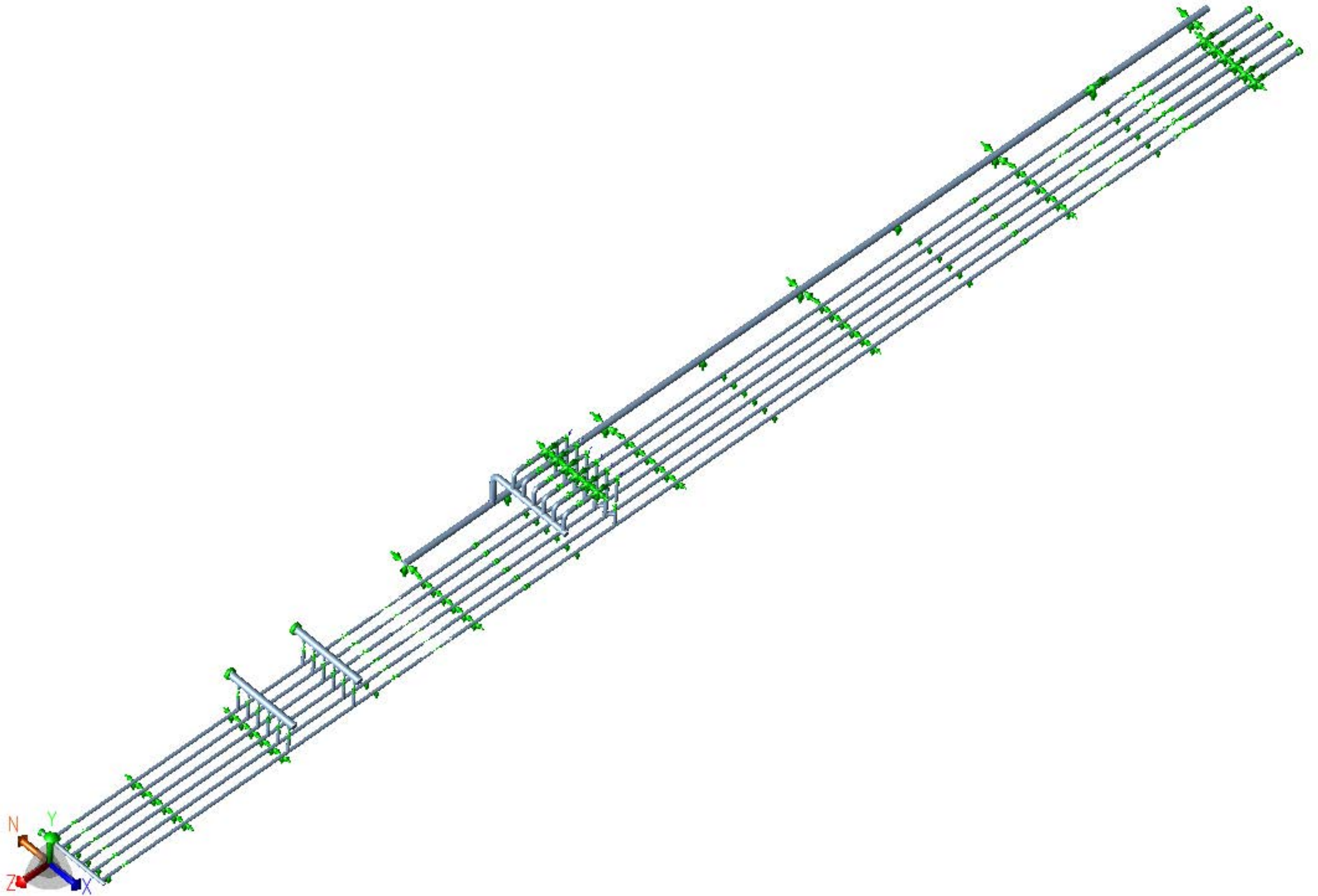
SPECIFICATION FOR PIPELINE STRESS ANALYSIS

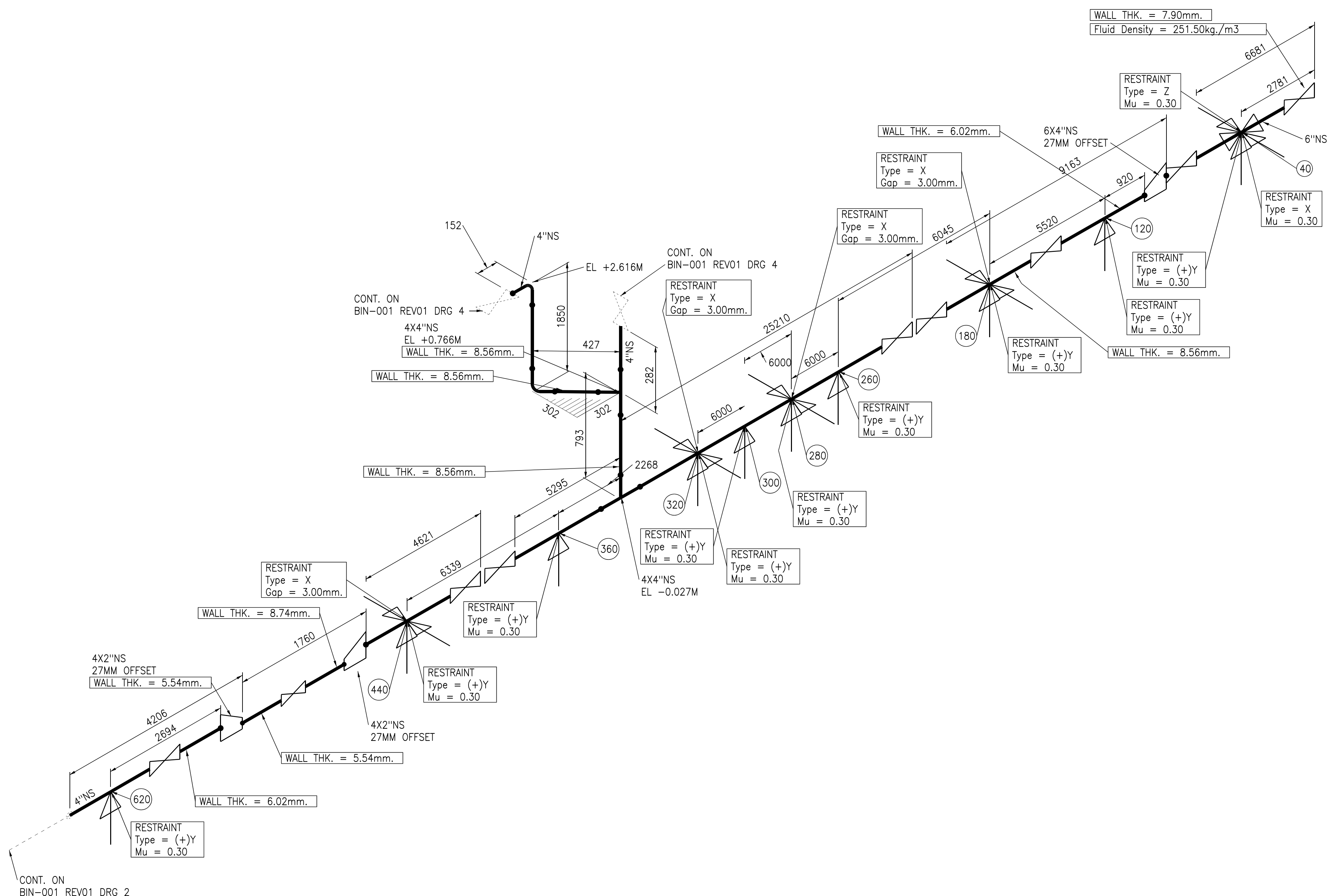
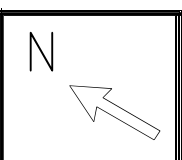
PIPING MATERIAL SPECIFICATION

PIPELINE MATERIAL SPECIFICATION

CALCULATION BOOK FOR (CV,PSV,PUMP&LINE SIZING)-EXTENSIION OF BINAK
B/C MANIFOLD

LINE LIST - W007S & MANIFOLD EXTENSION





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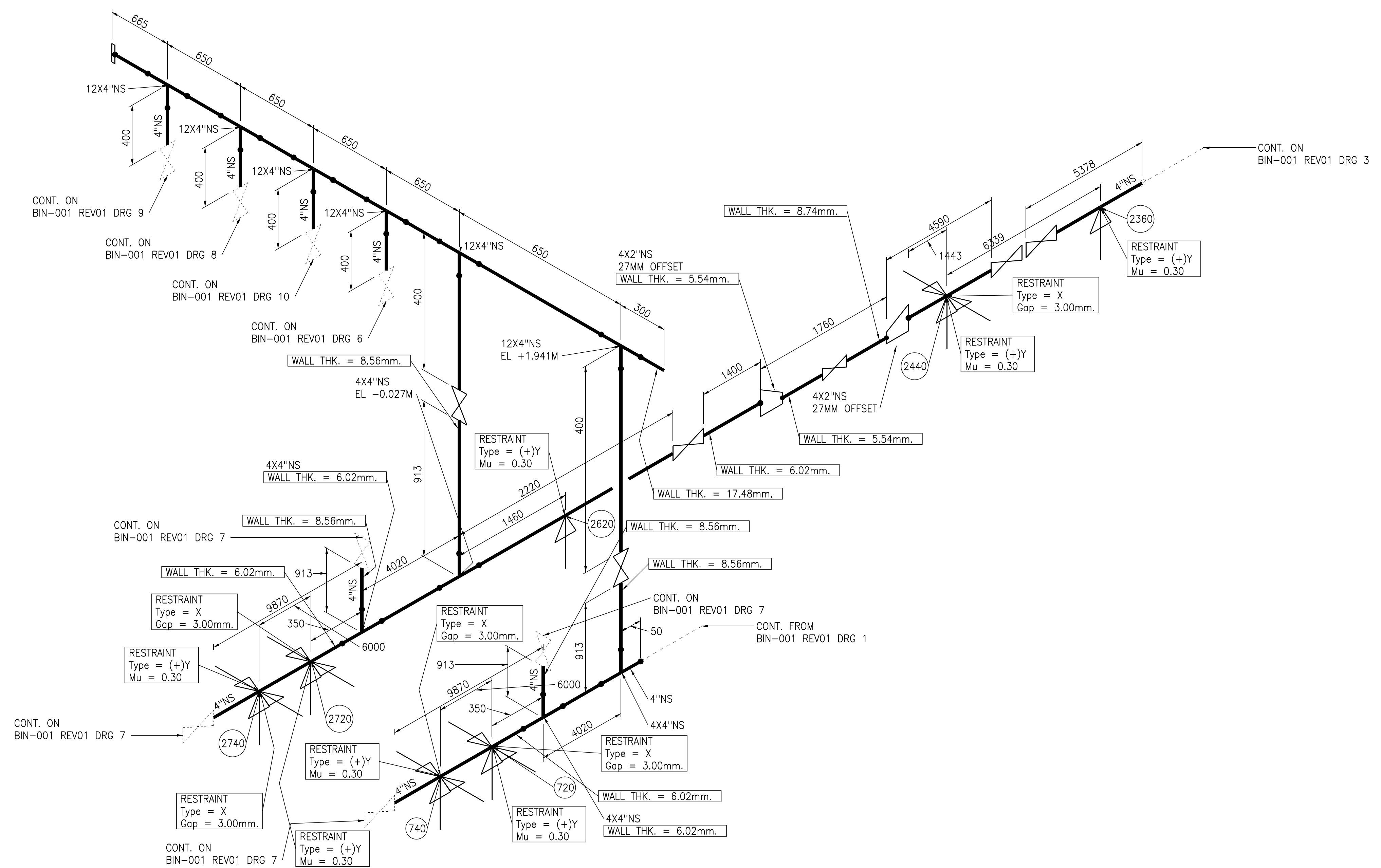
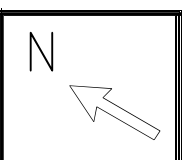


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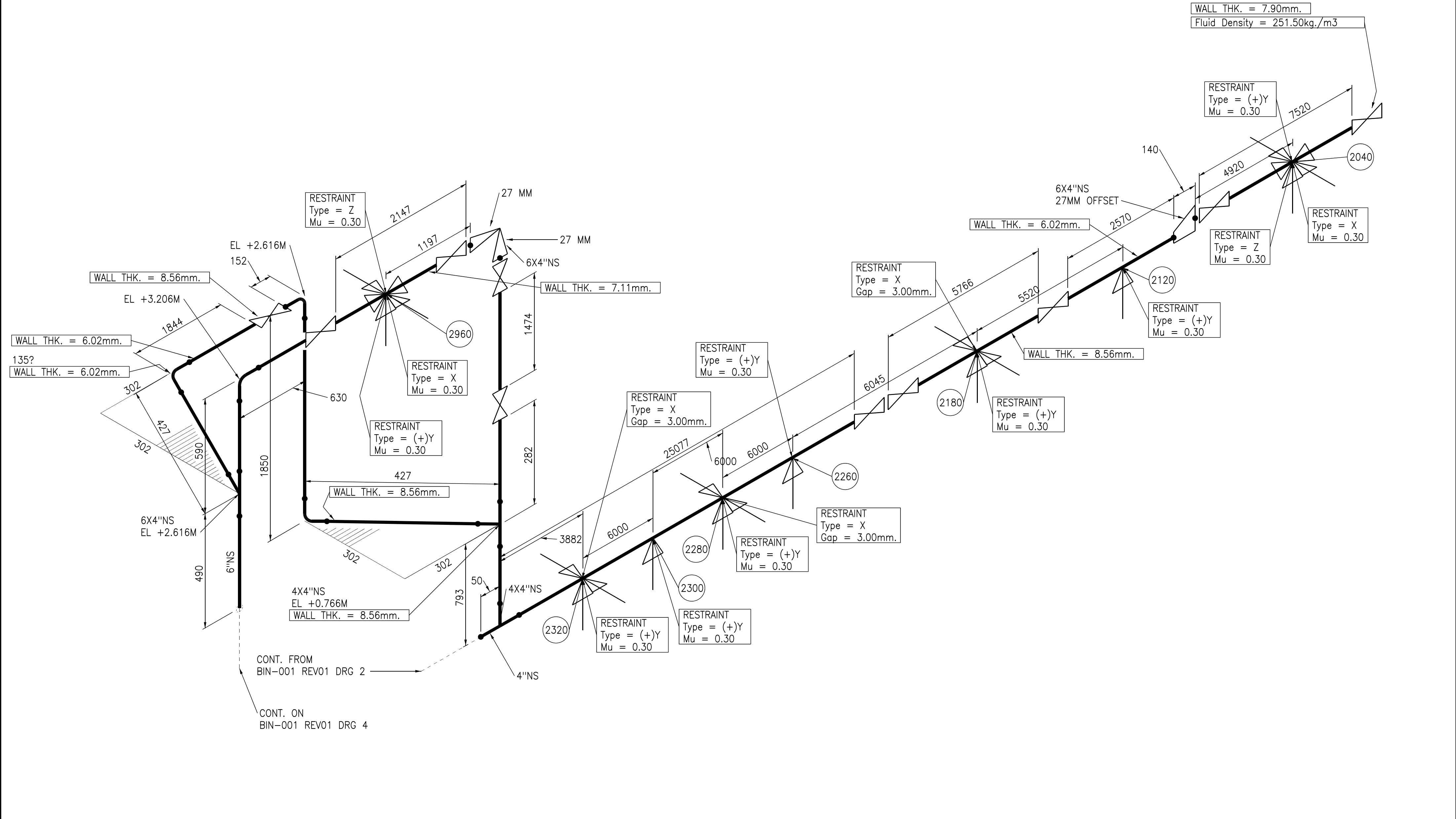
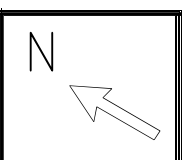


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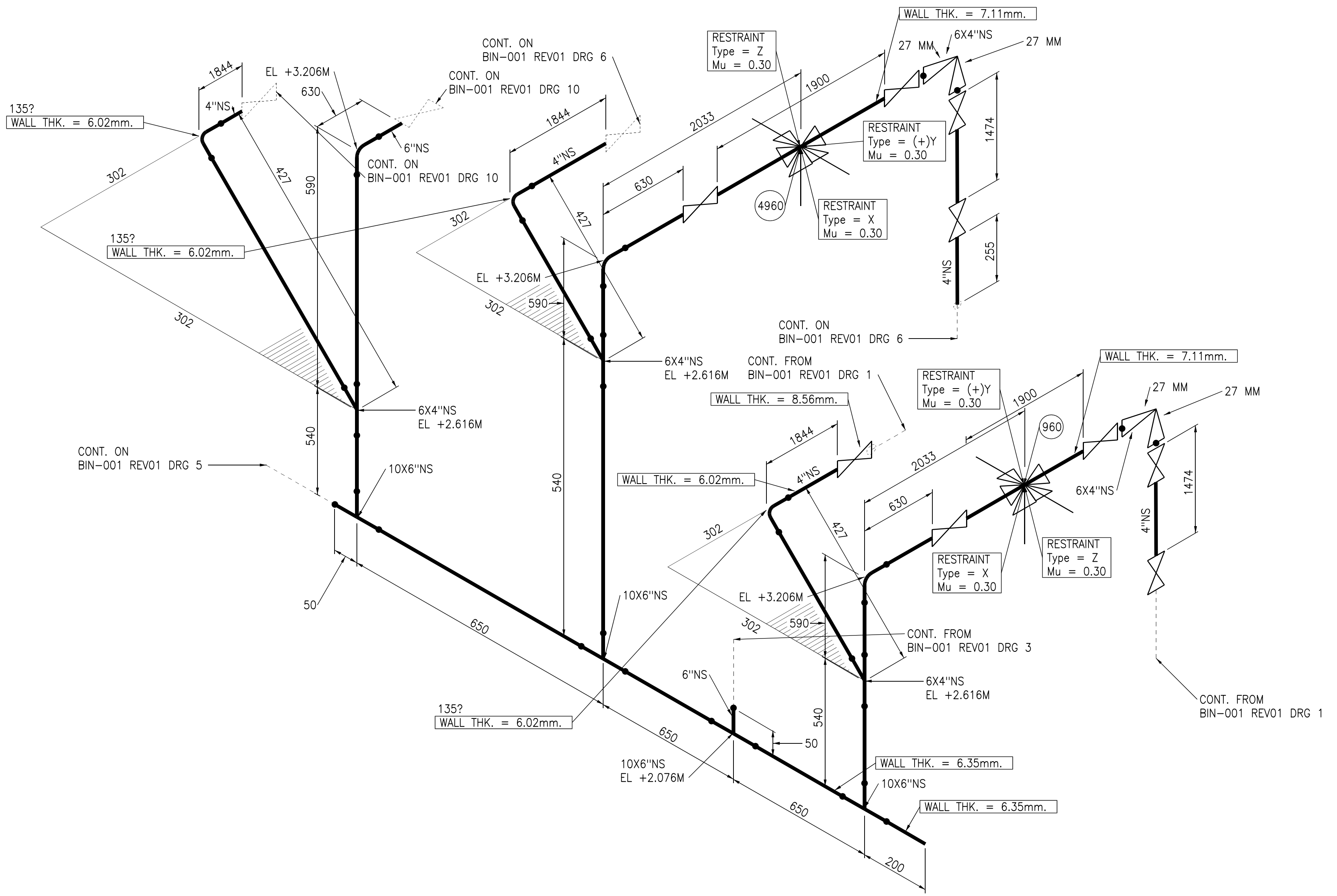
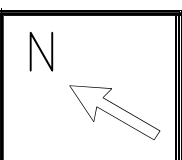


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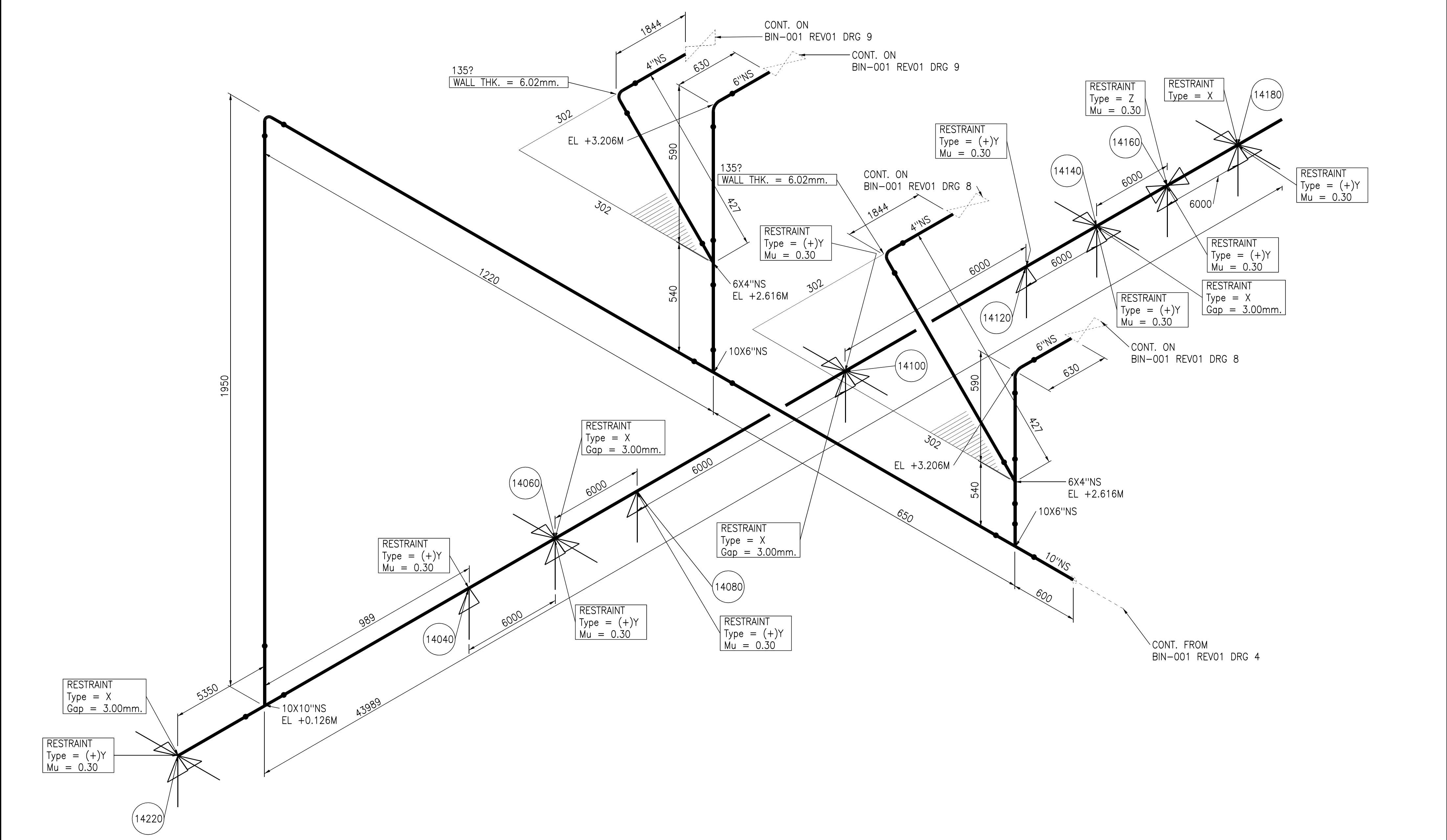
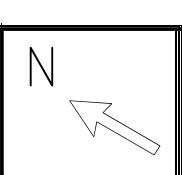


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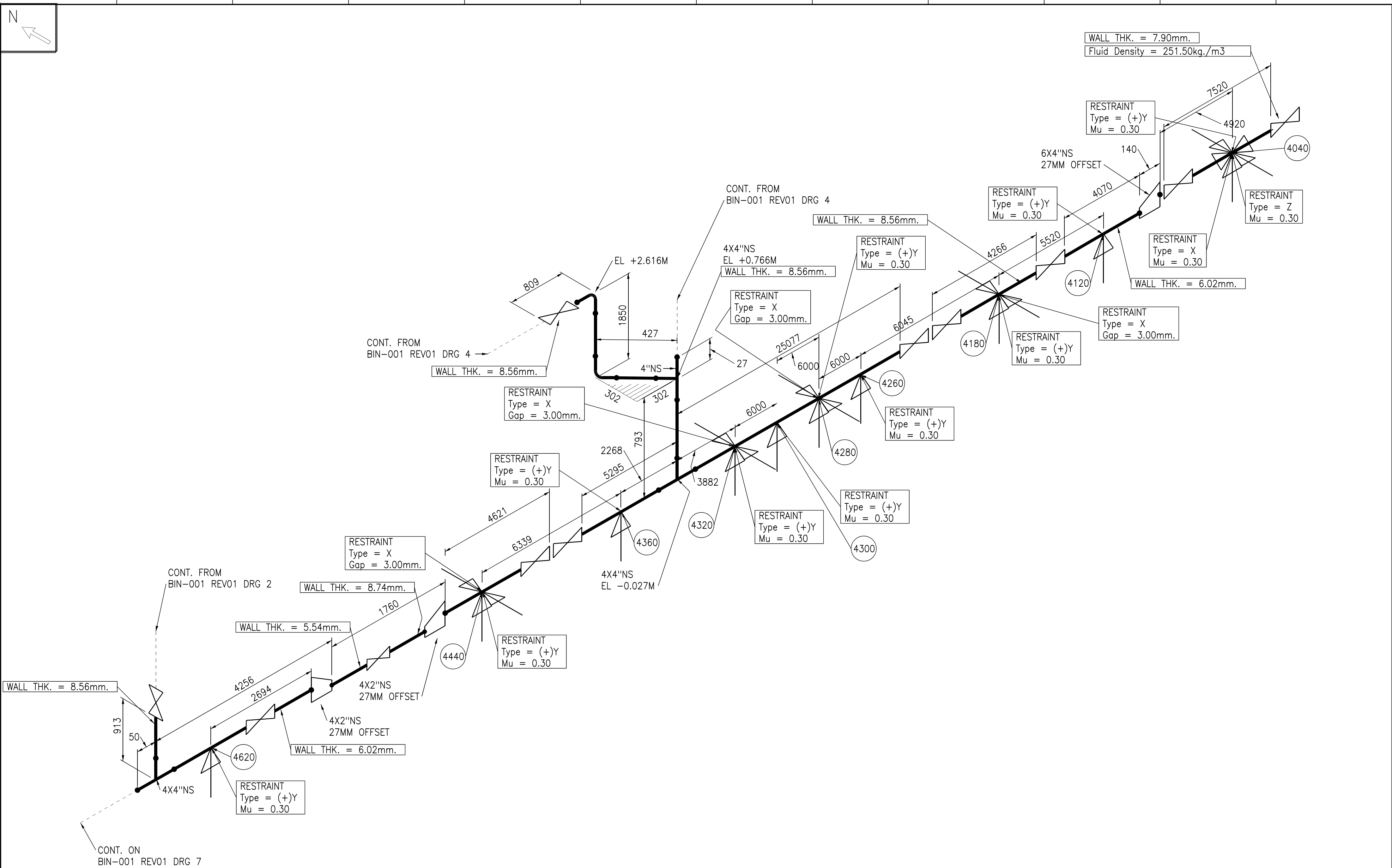
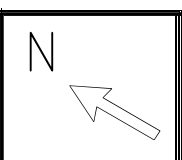
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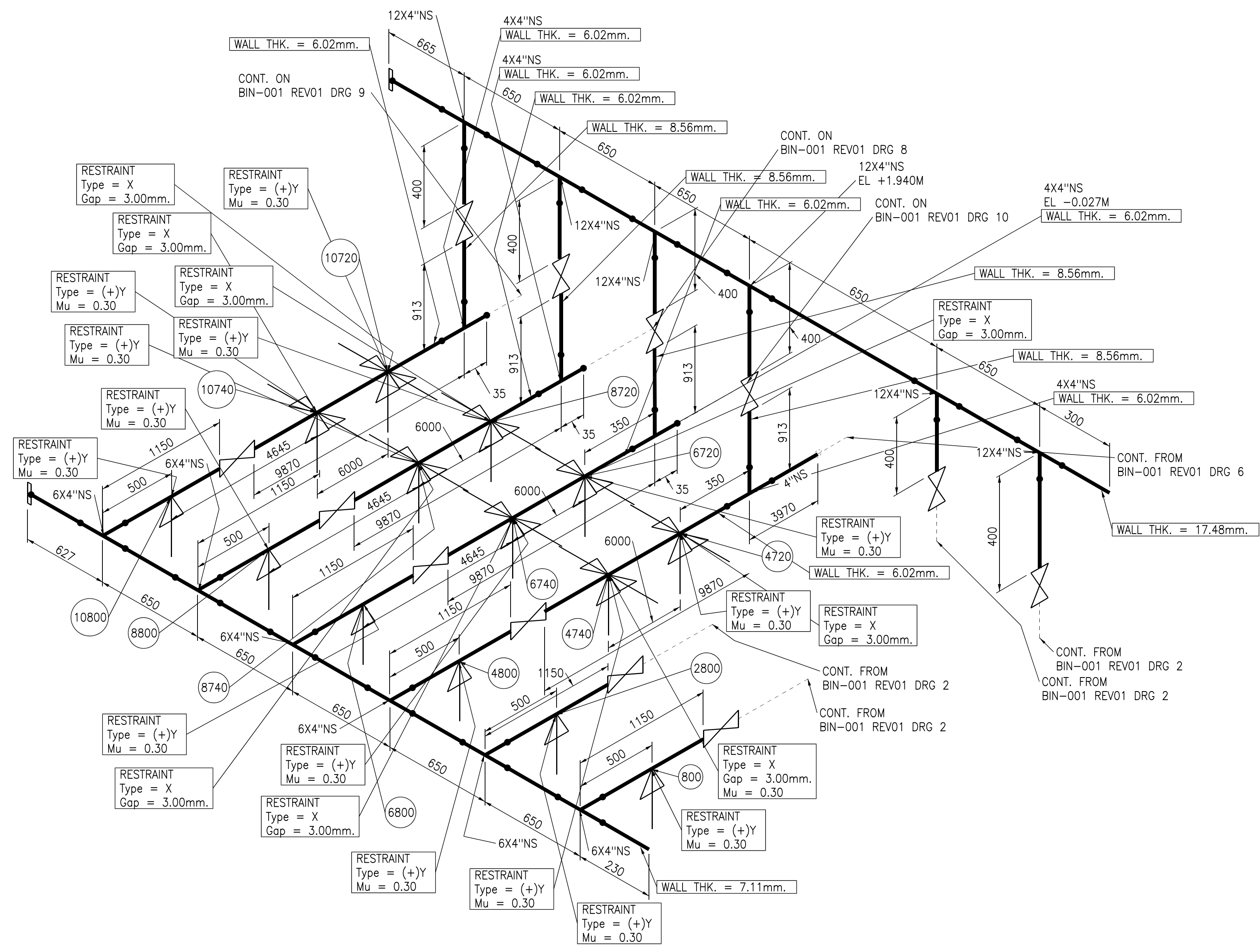
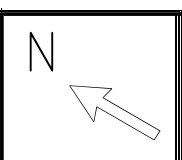
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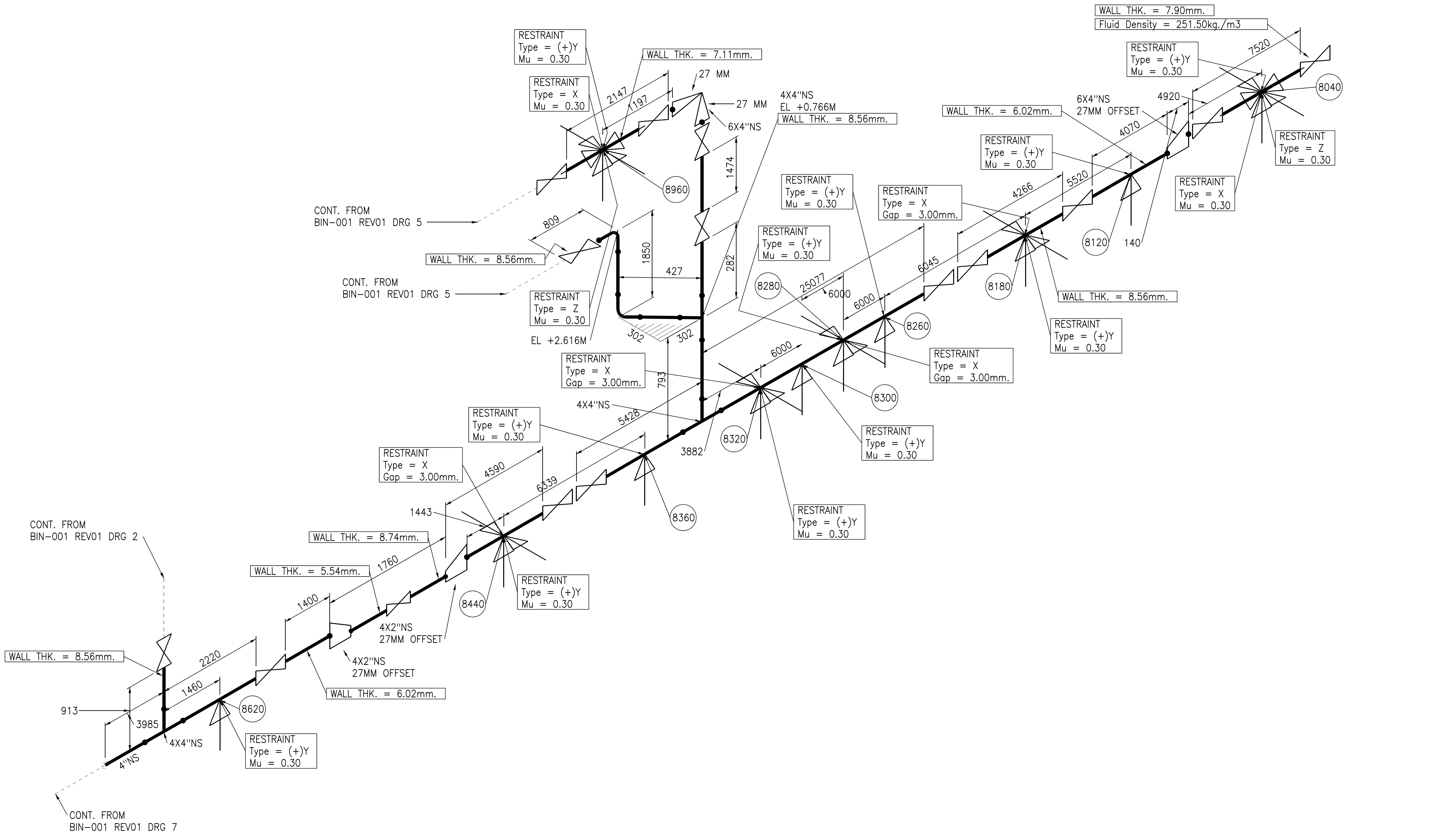
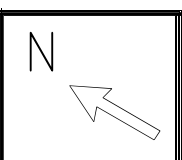


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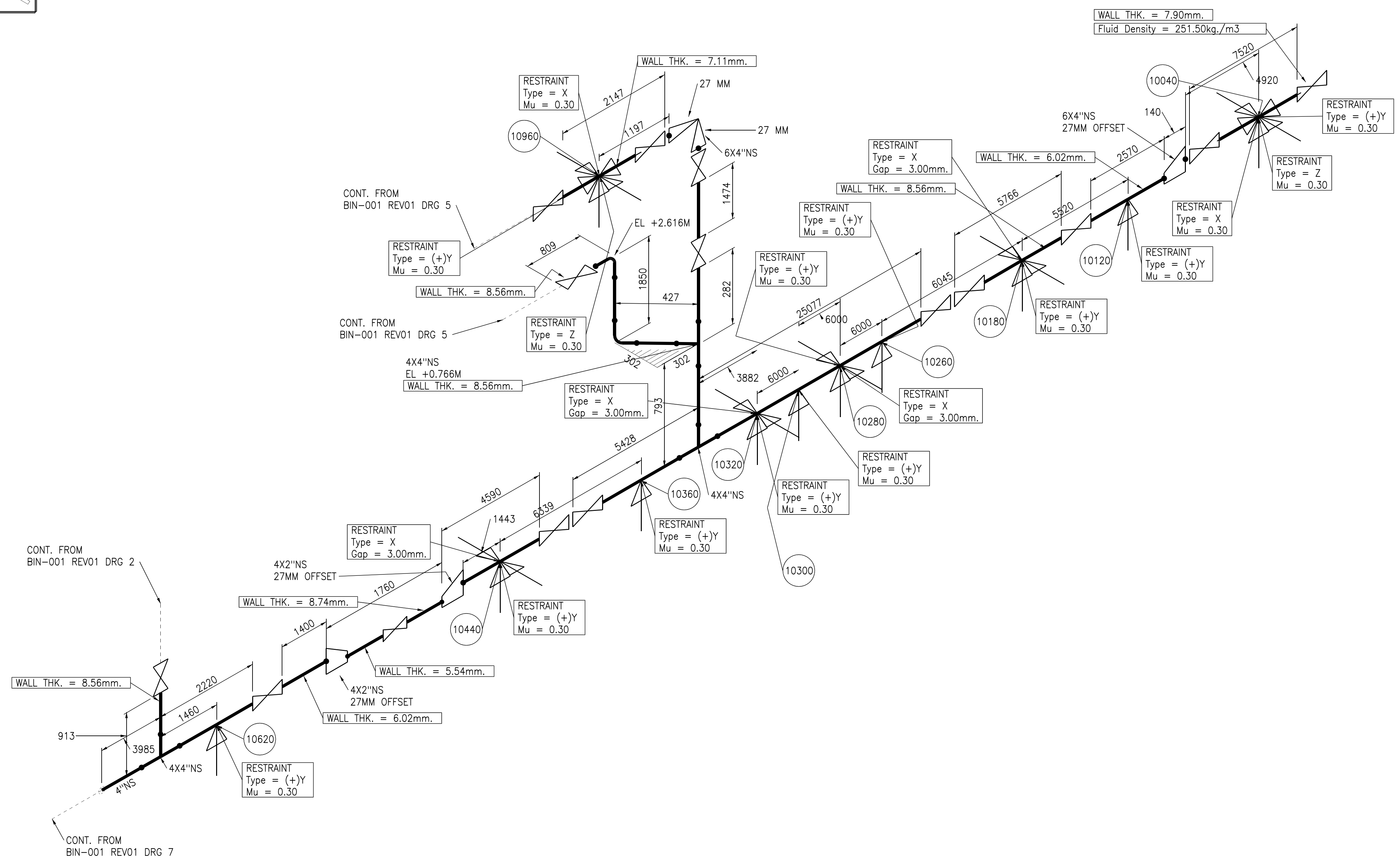
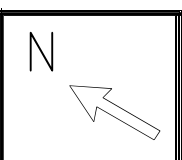


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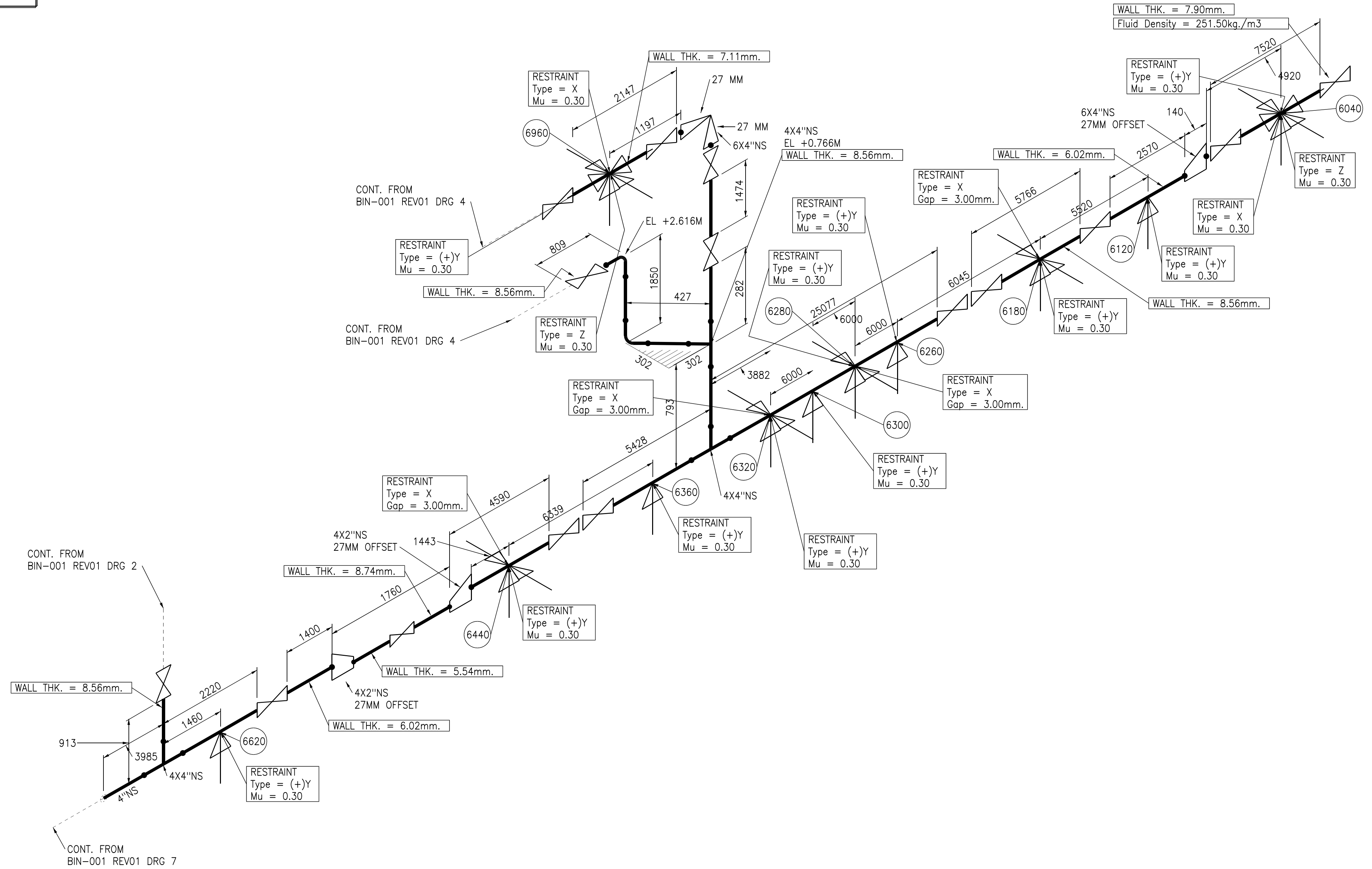
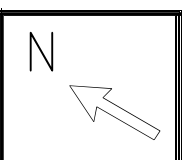


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LISTING OF STATIC LOAD CASES FOR THIS ANALYSIS

1 (HGR) CASE NOT ACTIVE
2 (HGR) CASE NOT ACTIVE
3 (HYD) WW+HP+H
4 (OPE) W+T1+P1+H
5 (Alt-SUS) W+P1+H
6 (OPE) W+T2+P1+H
7 (Alt-SUS) W+P1+H
8 (OPE) W+T3+P1+H
9 (Alt-SUS) W+P1+H
10 (SUS) W+P1+H
11 (SUS) WNC+H
12 (OPE) W+T1+P1+H+U1
13 (OPE) W+T1+P1+H-U1
14 (OPE) W+T1+P1+H+U2
15 (OPE) W+T1+P1+H-U2
16 (OPE) W+T1+P1+H+F1
17 (OCC) L17=L12-L4
18 (OCC) L18=L13-L4
19 (OCC) L19=L14-L4
20 (OCC) L20=L15-L4
21 (OCC) L21=L16-L4
22 (OCC) L22=L17+L10
23 (OCC) L23=L18+L10
24 (OCC) L24=L19+L10
25 (OCC) L25=L20+L10
26 (OCC) L26=L21+L10
27 (EXP) L27=L4-L10
28 (EXP) L28=L6-L10
29 (EXP) L29=L8-L10
30 (EXP) L30=L6-L8
31 (OPE) L31=L4,L6,L8
32 (OCC) L32=L17,L18,L19,L20,L21

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INPUT LISTING

Job Description:

PROJECT:

CLIENT :

ANALYST:

NOTES :

CAESAR II 2019 Ver.11.00.00.4800, (Build 190424) OCT 12,2022 16:11:24

PIPE DATA

 From 10 To 20 DZ= .594 ft.

PIPE

Dia= 6.625 in. Wall= .311 in. Cor= .1181 in.

Element Name= FLANGE_FLG_1500

GENERAL

T1= 107 F T2= 185 F T3= 30 F P1= 150.1175 lb./sq.in.

PHyd= 227.7144 lb./sq.in. Mat= (331)API-5L X52 E= 29,500,856 lb./sq.in.

EH1= 29,264,112 lb./sq.in. EH2= 28,875,074 lb./sq.in.

EH3= 29,665,844 lb./sq.in. EH4= 29,500,856 lb./sq.in.

EH5= 29,500,856 lb./sq.in. EH6= 29,500,856 lb./sq.in.

EH7= 29,500,856 lb./sq.in. EH8= 29,500,856 lb./sq.in.

EH9= 29,500,856 lb./sq.in. v = .292 Pipe Den= .2830000 lb./cu.in.

Fluid Den= .0090860 lb./cu.in. Insul Thk= .000 in.

RIGID Weight= 165.00 lb.

UNIFORM LOAD

Vector1 in F/L X1 Dir = .26 lb./in. Y1 Dir = .00 lb./in.

Z1 Dir = .00 lb./in. Vector2 in F/L X2 Dir = .00 lb./in.

Y2 Dir = .00 lb./in. Z2 Dir = .26 lb./in. Vector3 in G-s X3 Dir = .00 g's

Y3 Dir = .00 g's Z3 Dir = .00 g's Vector4 in G-s X4 Dir = .00 g's

Y4 Dir = .00 g's Z4 Dir = .00 g's Vector5 in F/L X5 Dir = .00 lb./in.

Y5 Dir = .00 lb./in. Z5 Dir = .00 lb./in. Vector6 in F/L

X6 Dir = .00 lb./in. Y6 Dir = .00 lb./in. Z6 Dir = .00 lb./in.

Vector7 in F/L X7 Dir = .00 lb./in. Y7 Dir = .00 lb./in.

Z7 Dir = .00 lb./in. Vector8 in F/L X8 Dir = .00 lb./in.

Y8 Dir = .00 lb./in. Z8 Dir = .00 lb./in. Vector9 in F/L

X9 Dir = .00 lb./in. Y9 Dir = .00 lb./in. Z9 Dir = .00 lb./in.

ALLOWABLE STRESSES

B31.3 (2016) Cycle Max Switch = --- Sc= 22,000 lb./sq.in.

Sh1= 22,000 lb./sq.in. Sh2= 22,000 lb./sq.in. Sh3= 22,000 lb./sq.in.

Sh4= 22,000 lb./sq.in. Sh5= 22,000 lb./sq.in. Sh6= 22,000 lb./sq.in.

Sh7= 22,000 lb./sq.in. Sh8= 22,000 lb./sq.in. Sh9= 22,000 lb./sq.in.

Sy= 52,000 lb./sq.in.

 From 20 To 40 DZ= 8.530 ft.

RESTRAINTS

Node 40 +Y Mu = .30

Node 40 Z Mu = .30

Node 40 X Mu = .30

 From 40 To 60 DZ= 12.795 ft.

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INPUT LISTING

From 60 To 80 DZ= 3.346 ft.

Element Name= BALL_FLG_1500

RIGID Weight= 1,045.00 lb.

 From 80 To 100 DY= -.089 ft. DZ= .459 ft.

REDUCER

Diam2= 4.500 in. Wall2= .237 in.

 From 100 To 120 DZ= 3.018 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.

Insul Thk= .000 in.

RESTRAINTS

Node 120 +Y Mu = .30

 From 120 To 140 DZ= 10.335 ft.

 From 140 To 160 DZ= 2.690 ft.

Element Name= GATE_FLG_1500

RIGID Weight= 1,027.78 lb.

 From 160 To 180 DZ= 5.085 ft.

PIPE

Dia= 4.500 in. Wall= .337 in.

GENERAL

Mat= (106)A106 Grade B E= 29,500,856 lb./sq.in.

EH1= 29,264,112 lb./sq.in. EH2= 28,875,074 lb./sq.in.

EH3= 29,665,844 lb./sq.in. EH4= 29,500,856 lb./sq.in.

EH5= 29,500,856 lb./sq.in. EH6= 29,500,856 lb./sq.in.

EH7= 29,500,856 lb./sq.in. EH8= 29,500,856 lb./sq.in.

EH9= 29,500,856 lb./sq.in. v = .292 Pipe Den= .2830000 lb./cu.in.

Insul Thk= .000 in.

RESTRAINTS

Node 180 +Y Mu = .30

Node 180 X Gap= .118 in.

ALLOWABLE STRESSES

B31.3 (2016) Cycle Max Switch = --- Sc= 20,000 lb./sq.in.

Sh1= 20,000 lb./sq.in. Sh2= 20,000 lb./sq.in. Sh3= 20,000 lb./sq.in.

Sh4= 20,000 lb./sq.in. Sh5= 20,000 lb./sq.in. Sh6= 20,000 lb./sq.in.

Sh7= 20,000 lb./sq.in. Sh8= 20,000 lb./sq.in. Sh9= 20,000 lb./sq.in.

Sy= 35,000 lb./sq.in.

 From 180 To 200 DZ= 8.474 ft.

 From 200 To 220 DZ= .437 ft.

Element Name= FLANGE_FLG_1500

RIGID Weight= 74.00 lb.

 From 220 To 240 DZ= .437 ft.

Element Name= FLANGE_FLG_1500

RIGID Weight= 74.00 lb.

 From 240 To 260 DZ= 10.482 ft.

RESTRAINTS

Node 260 +Y Mu = .30

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INPUT LISTING

From 260 To 280 DZ= 19.685 ft.

RESTRAINTS

Node 280 +Y Mu = .30
 Node 280 X Gap= .118 in.

 From 280 To 300 DZ= 19.685 ft.

RESTRAINTS

Node 300 +Y Mu = .30

 From 300 To 320 DZ= 19.685 ft.

RESTRAINTS

Node 320 +Y Mu = .30
 Node 320 X Gap= .118 in.

 From 320 To 340 DZ= 12.736 ft.

SIF's & TEE's

Node 340 Welding Tee

 From 340 To 360 DZ= 7.441 ft.

RESTRAINTS

Node 360 +Y Mu = .30

 From 340 To 350 DY= 1.640 ft.

PIPE

Dia= 4.500 in. Wall= .337 in.
 Insul Thk= .000 in.

 From 360 To 380 DZ= 9.931 ft.

 From 380 To 400 DZ= .437 ft.

Element Name= FLANGE_FLG_1500

RIGID Weight= 74.00 lb.

 From 400 To 420 DZ= .437 ft.

Element Name= FLANGE_FLG_1500

RIGID Weight= 74.00 lb.

 From 420 To 440 DZ= 9.990 ft.

RESTRAINTS

Node 440 +Y Mu = .30
 Node 440 X Gap= .118 in.

 From 440 To 460 DZ= 4.734 ft.

 From 460 To 480 DY= -.089 ft. DZ= .335 ft.

REDUCER

Diam2= 2.375 in. Wall2= .344 in.

 From 480 To 500 DZ= 1.804 ft.

PIPE

Dia= 2.375 in. Wall= .344 in.
 Insul Thk= .000 in.

 From 500 To 520 DZ= 1.535 ft.

Element Name= GATE_FLG_1500

RIGID Weight= 110.00 lb.

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INPUT LISTING

 From 520 To 540 DZ= 2.100 ft.

PIPE

Dia= 2.375 in. Wall= .218 in.

Insul Thk= .000 in.

 From 540 To 560 DY= .089 ft. DZ= .335 ft.

PIPE

Dia= 2.375 in. Wall= .218 in.

Insul Thk= .000 in.

REDUCER

Diam2= 4.500 in. Wall2= .237 in.

 From 560 To 580 DZ= 4.593 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.

Insul Thk= .000 in.

 From 580 To 600 DZ= 1.752 ft.

Element Name= CHECK_FLG_600

RIGID Weight= 341.00 lb.

 From 600 To 620 DZ= 2.493 ft.

RESTRAINTS

Node 620 +Y Mu = .30

 From 620 To 640 DZ= 4.790 ft.

SIF's & TEE's

Node 640 Welding Tee

 From 640 To 660 DY= 1.640 ft.

PIPE

Dia= 4.500 in. Wall= .337 in.

Insul Thk= .000 in.

 From 640 To 680 DZ= 13.189 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.

Insul Thk= .000 in.

SIF's & TEE's

Node 680 Welding Tee

 From 680 To 700 DY= 1.640 ft.

PIPE

Dia= 4.500 in. Wall= .337 in.

Insul Thk= .000 in.

 From 680 To 720 DZ= 1.148 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.

Insul Thk= .000 in.

RESTRAINTS

Node 720 +Y Mu = .30

Node 720 X Gap= .118 in.

 From 720 To 740 DZ= 19.685 ft.

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INPUT LISTING

RESTRAINTS

Node 740 +Y Mu = .30
 Node 740 X Gap= .118 in.

 From 740 To 760 DZ= 11.549 ft.

From 760 To 780 DZ= 1.558 ft.
 Element Name= GATE_FLG_600
 RIGID Weight= 386.00 lb.

 From 780 To 800 DZ= 2.133 ft.

RESTRAINTS

Node 800 +Y Mu = .30

 From 800 To 820 DZ= 1.640 ft.

SIF'S & TEE'S

Node 820 Welding Tee

 From 350 To 1180 DY= .961 ft.

PIPE

Dia= 4.500 in. Wall= .337 in.
 Insul Thk= .000 in.

SIF'S & TEE'S

Node 1180 Welding Tee

 From 1180 To 860 DY= .925 ft.

From 860 To 880 DY= 2.156 ft.

Element Name= GATE_FLG_600

RIGID Weight= 386.00 lb.

 From 880 To 900 DY= 3.970 ft.

From 900 To 920 DY= .955 ft.

RIGID Weight= 337.23 lb.

FORCES & MOMENTS

Node 920 FY1= 134.89 lb. FZ1= -202.34 lb.

 From 920 To 940 DZ= .899 ft.

PIPE

Dia= 6.625 in. Wall= .337 in.
 Insul Thk= .000 in.

RIGID Weight= 337.23 lb.

 From 940 To 960 DZ= 3.117 ft.

PIPE

Dia= 6.625 in. Wall= .280 in.
 Insul Thk= .000 in.

RESTRAINTS

Node 960 +Y Mu = .30

Node 960 X Mu = .30

Node 960 Z Mu = .30

 From 960 To 980 DZ= 3.117 ft.

From 980 To 1000 DZ= 1.486 ft.

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INPUT LISTING

```

Element Name= GATE_FLG_600
RIGID Weight= 225.00 lb.
-----
From 1000 To 1020 DZ= 2.067 ft.
BEND at "TO" end
  Radius= 9.000 in. (LONG)   Bend Angle= 90.000   Angle/Node @1= 45.00 1019
  Angle/Node @2= .00 1018
-----
From 1020 To 1040 DY= -1.936 ft.
SIF's & TEE's
  Node 1040   Welding Tee
-----
From 1040 To 1060 DY= -1.772 ft.
SIF's & TEE's
  Node 1060   Welding Tee
-----
From 1040 To 1080 DX= -.991 ft.  DZ= -.991 ft.
PIPE
  Dia= 4.500 in.   Wall= .237 in.
  Insul Thk= .000 in.
BEND at "TO" end
  Radius= 6.000 in. (LONG)   Bend Angle= 45.000   Angle/Node @1= 22.50 1079
  Angle/Node @2= .00 1078
-----
From 1080 To 1100 DZ= -6.050 ft.
PIPE
  Dia= 4.500 in.   Wall= .237 in.
  Insul Thk= .000 in.
-----
From 1100 To 1120 DZ= -2.156 ft.
PIPE
  Dia= 4.500 in.   Wall= .337 in.   Element Name= GATE_FLG_600
  Insul Thk= .000 in.
RIGID Weight= 386.00 lb.
-----
From 1120 To 1140 DZ= -.499 ft.
BEND at "TO" end
  Radius= 6.000 in. (LONG)   Bend Angle= 90.000   Angle/Node @1= 45.00 1139
-----
From 1140 To 1160 DY= -6.070 ft.
BEND at "TO" end
  Radius= 6.000 in. (LONG)   Bend Angle= 90.000   Angle/Node @1= 45.00 1159
  Angle/Node @2= .00 1158
-----
From 1160 To 1180 DX= .991 ft.  DZ= -.991 ft.
PIPE
  Dia= 4.500 in.   Wall= .337 in.
  Insul Thk= .000 in.
-----
From 660 To 1200 DY= 1.355 ft.
-----
From 1200 To 1220 DY= 2.149 ft.
  Element Name= GATE_FLG_600
RIGID Weight= 386.00 lb.
-----
From 1220 To 1240 DY= 1.312 ft.

```

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INPUT LISTING

SIF's & TEE's

Node 1240 Weldolet

 From 700 To 1260 DY= 1.355 ft.

From 1260 To 1280 DY= 2.146 ft.

Element Name= GATE_FLG_600

RIGID Weight= 386.00 lb.

From 1280 To 1300 DY= 1.312 ft.

SIF's & TEE's

Node 1300 Weldolet

 From 820 To 1320 DX= .755 ft.

PIPE

Dia= 6.625 in. Wall= .280 in.

Insul Thk= .000 in.

From 820 To 2820 DX= -2.133 ft.

SIF's & TEE's

Node 2820 Welding Tee

 From 2820 To 4820 DX= -2.133 ft.

SIF's & TEE's

Node 4820 Welding Tee

 From 4820 To 6820 DX= -2.133 ft.

SIF's & TEE's

Node 6820 Welding Tee

 From 6820 To 8820 DX= -2.133 ft.

SIF's & TEE's

Node 8820 Welding Tee

 From 8820 To 12820 DX= -2.133 ft.

SIF's & TEE's

Node 12820 Welding Tee

 From 12820 To 12840 DX= -1.640 ft.

From 12840 To 12860 DX= -.417 ft.

Element Name= FLANGE_FLG_600

RIGID Weight= 82.00 lb.

From 2010 To 2020 DZ= .594 ft.

PIPE

Dia= 6.625 in. Wall= .311 in. Cor= .1181 in.

Element Name= FLANGE_FLG_1500

GENERAL

T1= 107 F T2= 185 F T3= 30 F P1= 150.1175 lb./sq.in.

Phyd= 227.7144 lb./sq.in. Mat= (331)API-5L X52 E= 29,500,856 lb./sq.in.

EH1= 29,264,112 lb./sq.in. EH2= 28,875,074 lb./sq.in.

EH3= 29,665,844 lb./sq.in. EH4= 29,500,856 lb./sq.in.

EH5= 29,500,856 lb./sq.in. EH6= 29,500,856 lb./sq.in.

EH7= 29,500,856 lb./sq.in. EH8= 29,500,856 lb./sq.in.

EH9= 29,500,856 lb./sq.in. v = .292 Pipe Den= .2830000 lb./cu.in.

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INPUT LISTING

Fluid Den= .0090860 lb./cu.in. Insul Thk= .000 in.
 RIGID Weight= 165.00 lb.

UNIFORM LOAD

Vector1 in F/L X1 Dir = .26 lb./in. Y1 Dir = .00 lb./in.
 Z1 Dir = .00 lb./in. Vector2 in F/L X2 Dir = .00 lb./in.
 Y2 Dir = .00 lb./in. Z2 Dir = .26 lb./in. Vector3 in G-s X3 Dir = .00 g's
 Y3 Dir = .00 g's Z3 Dir = .00 g's Vector4 in G-s X4 Dir = .00 g's
 Y4 Dir = .00 g's Z4 Dir = .00 g's Vector5 in F/L X5 Dir = .00 lb./in.
 Y5 Dir = .00 lb./in. Z5 Dir = .00 lb./in. Vector6 in F/L
 X6 Dir = .00 lb./in. Y6 Dir = .00 lb./in. Z6 Dir = .00 lb./in.
 Vector7 in F/L X7 Dir = .00 lb./in. Y7 Dir = .00 lb./in.
 Z7 Dir = .00 lb./in. Vector8 in F/L X8 Dir = .00 lb./in.
 Y8 Dir = .00 lb./in. Z8 Dir = .00 lb./in. Vector9 in F/L
 X9 Dir = .00 lb./in. Y9 Dir = .00 lb./in. Z9 Dir = .00 lb./in.

ALLOWABLE STRESSES

B31.3 (2016) Cycle Max Switch = --- Sc= 22,000 lb./sq.in.
 Sh1= 22,000 lb./sq.in. Sh2= 22,000 lb./sq.in. Sh3= 22,000 lb./sq.in.
 Sh4= 22,000 lb./sq.in. Sh5= 22,000 lb./sq.in. Sh6= 22,000 lb./sq.in.
 Sh7= 22,000 lb./sq.in. Sh8= 22,000 lb./sq.in. Sh9= 22,000 lb./sq.in.
 Sy= 52,000 lb./sq.in.

 From 2020 To 2040 DZ= 8.530 ft.

RESTRAINTS

Node 2040 +Y Mu = .30
 Node 2040 Z Mu = .30
 Node 2040 X Mu = .30

 From 2040 To 2060 DZ= 12.795 ft.

 From 2060 To 2080 DZ= 3.346 ft.

Element Name= BALL_FLG_1500

RIGID Weight= 1,045.00 lb.

 From 2080 To 2100 DY= -.089 ft. DZ= .459 ft.

REDUCER

Diam2= 4.500 in. Wall2= .237 in.

 From 2100 To 2120 DZ= 3.018 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.
 Insul Thk= .000 in.

RESTRAINTS

Node 2120 +Y Mu = .30

 From 2120 To 2140 DZ= 5.413 ft.

 From 2140 To 2160 DZ= 2.690 ft.

Element Name= GATE_FLG_1500

RIGID Weight= 1,027.78 lb.

 From 2160 To 2180 DZ= 10.007 ft.

PIPE

Dia= 4.500 in. Wall= .337 in.

GENERAL

Mat= (106)A106 Grade B E= 29,500,856 lb./sq.in.
 EH1= 29,264,112 lb./sq.in. EH2= 28,875,074 lb./sq.in.

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INPUT LISTING

EH3= 29,665,844 lb./sq.in. EH4= 29,500,856 lb./sq.in.
 EH5= 29,500,856 lb./sq.in. EH6= 29,500,856 lb./sq.in.
 EH7= 29,500,856 lb./sq.in. EH8= 29,500,856 lb./sq.in.
 EH9= 29,500,856 lb./sq.in. v = .292 Pipe Den= .2830000 lb./cu.in.
 Insul Thk= .000 in.

RESTRAINTS

Node 2180 +Y Mu = .30
 Node 2180 X Gap= .118 in.

ALLOWABLE STRESSES

B31.3 (2016) Cycle Max Switch = --- Sc= 20,000 lb./sq.in.
 Sh1= 20,000 lb./sq.in. Sh2= 20,000 lb./sq.in. Sh3= 20,000 lb./sq.in.
 Sh4= 20,000 lb./sq.in. Sh5= 20,000 lb./sq.in. Sh6= 20,000 lb./sq.in.
 Sh7= 20,000 lb./sq.in. Sh8= 20,000 lb./sq.in. Sh9= 20,000 lb./sq.in.
 Sy= 35,000 lb./sq.in.

 From 2180 To 2200 DZ= 8.474 ft.

From 2200 To 2220 DZ= .437 ft.
 Element Name= FLANGE_FLG_1500
 RIGID Weight= 74.00 lb.

From 2220 To 2240 DZ= .437 ft.
 Element Name= FLANGE_FLG_1500
 RIGID Weight= 74.00 lb.

From 2240 To 2260 DZ= 10.482 ft.
 RESTRAINTS
 Node 2260 +Y Mu = .30

From 2260 To 2280 DZ= 19.685 ft.
 RESTRAINTS
 Node 2280 +Y Mu = .30
 Node 2280 X Gap= .118 in.

From 2280 To 2300 DZ= 19.685 ft.
 RESTRAINTS
 Node 2300 +Y Mu = .30

From 2300 To 2320 DZ= 19.685 ft.
 RESTRAINTS
 Node 2320 +Y Mu = .30
 Node 2320 X Gap= .118 in.

From 2320 To 2340 DZ= 12.736 ft.
 SIF's & TEE's
 Node 2340 Welding Tee

From 2340 To 2360 DZ= 7.441 ft.
 RESTRAINTS
 Node 2360 +Y Mu = .30

From 2340 To 2350 DY= 1.640 ft.

From 2360 To 2380 DZ= 9.931 ft.

From 2380 To 2400 DZ= .437 ft.

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INPUT LISTING

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Element Name= FLANGE_FLG_1500
RIGID Weight= 74.00 lb.
-----
From 2400 To 2420 DZ= .437 ft.
Element Name= FLANGE_FLG_1500
RIGID Weight= 74.00 lb.
-----
From 2420 To 2440 DZ= 9.990 ft.
RESTRAINTS
Node 2440 +Y Mu = .30
Node 2440 X Gap= .118 in.
-----
From 2440 To 2460 DZ= 4.734 ft.
-----
From 2460 To 2480 DY= -.089 ft. DZ= .335 ft.
REDUCER
Diam2= 2.375 in. Wall2= .344 in.
-----
From 2480 To 2500 DZ= 1.804 ft.
PIPE
Dia= 2.375 in. Wall= .344 in.
Insul Thk= .000 in.
-----
From 2500 To 2520 DZ= 1.535 ft.
Element Name= GATE_FLG_1500
RIGID Weight= 110.00 lb.
-----
From 2520 To 2540 DZ= 2.100 ft.
PIPE
Dia= 2.375 in. Wall= .218 in.
Insul Thk= .000 in.
-----
From 2540 To 2560 DY= .089 ft. DZ= .335 ft.
PIPE
Dia= 2.375 in. Wall= .218 in.
Insul Thk= .000 in.
REDUCER
Diam2= 4.500 in. Wall2= .237 in.
-----
From 2560 To 2580 DZ= 4.593 ft.
PIPE
Dia= 4.500 in. Wall= .237 in.
Insul Thk= .000 in.
-----
From 2580 To 2600 DZ= 1.752 ft.
Element Name= CHECK_FLG_600
RIGID Weight= 341.00 lb.
-----
From 2600 To 2620 DZ= 2.493 ft.
RESTRAINTS
Node 2620 +Y Mu = .30
-----
From 2620 To 2640 DZ= 4.790 ft.
SIF's & TEE's
Node 2640 Welding Tee
-----

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From 2640 To 2660 DY= 1.640 ft.

PIPE

Dia= 4.500 in. Wall= .337 in.

Insul Thk= .000 in.

 From 2640 To 2680 DZ= 13.189 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.

Insul Thk= .000 in.

SIF's & TEE's

Node 2680 Welding Tee

 From 2680 To 2700 DY= 1.640 ft.

PIPE

Dia= 4.500 in. Wall= .337 in.

Insul Thk= .000 in.

 From 2680 To 2720 DZ= 1.148 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.

Insul Thk= .000 in.

RESTRAINTS

Node 2720 +Y Mu = .30

Node 2720 X Gap= .118 in.

 From 2720 To 2740 DZ= 19.685 ft.

RESTRAINTS

Node 2740 +Y Mu = .30

Node 2740 X Gap= .118 in.

 From 2740 To 2760 DZ= 11.549 ft.

 From 2760 To 2780 DZ= 1.558 ft.

Element Name= GATE_FLG_600

RIGID Weight= 386.00 lb.

 From 2780 To 2800 DZ= 2.133 ft.

RESTRAINTS

Node 2800 +Y Mu = .30

 From 2800 To 2820 DZ= 1.640 ft.

SIF's & TEE's

Node 2820 Welding Tee

 From 2350 To 3180 DY= .961 ft.

PIPE

Dia= 4.500 in. Wall= .337 in.

Insul Thk= .000 in.

SIF's & TEE's

Node 3180 Welding Tee

 From 3180 To 2860 DY= .925 ft.

 From 2860 To 2880 DY= 2.156 ft.

Element Name= GATE_FLG_600

RIGID Weight= 386.00 lb.

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 From 2880 To 2900 DY= 3.970 ft.

From 2900 To 2920 DY= .955 ft.

RIGID Weight= 337.23 lb.

FORCES & MOMENTS

Node 2920 FY1= 134.89 lb. FZ1= -202.34 lb.

From 2920 To 2940 DZ= .899 ft.

PIPE

Dia= 6.625 in. Wall= .337 in.

Insul Thk= .000 in.

RIGID Weight= 337.23 lb.

From 2940 To 2960 DZ= 3.117 ft.

PIPE

Dia= 6.625 in. Wall= .280 in.

Insul Thk= .000 in.

RESTRAINTS

Node 2960 +Y Mu = .30

Node 2960 X Mu = .30

Node 2960 Z Mu = .30

From 2960 To 2980 DZ= 3.117 ft.

From 2980 To 3000 DZ= 1.486 ft.

Element Name= GATE_FLG_600

RIGID Weight= 225.00 lb.

From 3000 To 3020 DZ= 2.067 ft.

BEND at "TO" end

Radius= 9.000 in. (LONG) Bend Angle= 90.000 Angle/Node @1= 45.00 3019

Angle/Node @2= .00 3018

From 3020 To 3040 DY= -1.936 ft.

SIF's & TEE's

Node 3040 Welding Tee

From 3040 To 3060 DY= -1.772 ft.

SIF's & TEE's

Node 3060 Welding Tee

From 3040 To 3080 DX= -.991 ft. DZ= -.991 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.

Insul Thk= .000 in.

BEND at "TO" end

Radius= 6.000 in. (LONG) Bend Angle= 45.000 Angle/Node @1= 22.50 3079

Angle/Node @2= .00 3078

From 3080 To 3100 DZ= -6.050 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.

Insul Thk= .000 in.

From 3100 To 3120 DZ= -2.156 ft.

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INPUT LISTING

PIPE

Dia= 4.500 in. Wall= .337 in. Element Name= GATE_FLG_600
 Insul Thk= .000 in.

RIGID Weight= 386.00 lb.

 From 3120 To 3140 DZ= -.499 ft.

BEND at "TO" end

Radius= 6.000 in. (LONG) Bend Angle= 90.000 Angle/Node @1= 45.00 3139

 From 3140 To 3160 DY= -6.070 ft.

BEND at "TO" end

Radius= 6.000 in. (LONG) Bend Angle= 90.000 Angle/Node @1= 45.00 3159
 Angle/Node @2= .00 3158

 From 3160 To 3180 DX= .991 ft. DZ= -.991 ft.

PIPE

Dia= 4.500 in. Wall= .337 in.
 Insul Thk= .000 in.

 From 2660 To 3200 DY= 1.355 ft.

 From 3200 To 3220 DY= 2.149 ft.

Element Name= GATE_FLG_600

RIGID Weight= 386.00 lb.

 From 3220 To 3240 DY= 1.312 ft.

SIF's & TEE's

Node 3240 Weldolet

 From 2700 To 3260 DY= 1.355 ft.

 From 3260 To 3280 DY= 2.146 ft.

Element Name= GATE_FLG_600

RIGID Weight= 386.00 lb.

 From 3280 To 3300 DY= 1.312 ft.

SIF's & TEE's

Node 3300 Weldolet

 From 4010 To 4020 DZ= .594 ft.

PIPE

Dia= 6.625 in. Wall= .311 in. Cor= .1181 in.
 Element Name= FLANGE_FLG_1500

GENERAL

T1= 107 F T2= 185 F T3= 30 F P1= 150.1175 lb./sq.in.
 PHyd= 227.7144 lb./sq.in. Mat= (331)API-5L X52 E= 29,500,856 lb./sq.in.
 EH1= 29,264,112 lb./sq.in. EH2= 28,875,074 lb./sq.in.
 EH3= 29,665,844 lb./sq.in. EH4= 29,500,856 lb./sq.in.
 EH5= 29,500,856 lb./sq.in. EH6= 29,500,856 lb./sq.in.
 EH7= 29,500,856 lb./sq.in. EH8= 29,500,856 lb./sq.in.
 EH9= 29,500,856 lb./sq.in. v = .292 Pipe Den= .2830000 lb./cu.in.
 Fluid Den= .0090860 lb./cu.in. Insul Thk= .000 in.

RIGID Weight= 165.00 lb.

UNIFORM LOAD

Vector1 in F/L X1 Dir = .26 lb./in. Y1 Dir = .00 lb./in.
 Z1 Dir = .00 lb./in. Vector2 in F/L X2 Dir = .00 lb./in.

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INPUT LISTING

Y2 Dir = .00 lb./in. Z2 Dir = .26 lb./in. Vector3 in G-s X3 Dir = .00 g's
 Y3 Dir = .00 g's Z3 Dir = .00 g's Vector4 in G-s X4 Dir = .00 g's
 Y4 Dir = .00 g's Z4 Dir = .00 g's Vector5 in F/L X5 Dir = .00 lb./in.
 Y5 Dir = .00 lb./in. Z5 Dir = .00 lb./in. Vector6 in F/L
 X6 Dir = .00 lb./in. Y6 Dir = .00 lb./in. Z6 Dir = .00 lb./in.
 Vector7 in F/L X7 Dir = .00 lb./in. Y7 Dir = .00 lb./in.
 Z7 Dir = .00 lb./in. Vector8 in F/L X8 Dir = .00 lb./in.
 Y8 Dir = .00 lb./in. Z8 Dir = .00 lb./in. Vector9 in F/L
 X9 Dir = .00 lb./in. Y9 Dir = .00 lb./in. Z9 Dir = .00 lb./in.

ALLOWABLE STRESSES

B31.3 (2016) Cycle Max Switch = --- Sc= 22,000 lb./sq.in.
 Sh1= 22,000 lb./sq.in. Sh2= 22,000 lb./sq.in. Sh3= 22,000 lb./sq.in.
 Sh4= 22,000 lb./sq.in. Sh5= 22,000 lb./sq.in. Sh6= 22,000 lb./sq.in.
 Sh7= 22,000 lb./sq.in. Sh8= 22,000 lb./sq.in. Sh9= 22,000 lb./sq.in.
 Sy= 52,000 lb./sq.in.

 From 4020 To 4040 DZ= 8.530 ft.

RESTRAINTS

Node 4040 +Y Mu = .30
 Node 4040 Z Mu = .30
 Node 4040 X Mu = .30

 From 4040 To 4060 DZ= 12.795 ft.

 From 4060 To 4080 DZ= 3.346 ft.

Element Name= BALL_FLG_1500

RIGID Weight= 1,045.00 lb.

 From 4080 To 4100 DY= -.089 ft. DZ= .459 ft.

REDUCER

Diam2= 4.500 in. Wall2= .237 in.

 From 4100 To 4120 DZ= 3.018 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.
 Insul Thk= .000 in.

RESTRAINTS

Node 4120 +Y Mu = .30

 From 4120 To 4140 DZ= 10.335 ft.

 From 4140 To 4160 DZ= 2.690 ft.

Element Name= GATE_FLG_1500

RIGID Weight= 1,027.78 lb.

 From 4160 To 4180 DZ= 5.085 ft.

PIPE

Dia= 4.500 in. Wall= .337 in.

GENERAL

Mat= (106)A106 Grade B E= 29,500,856 lb./sq.in.
 EH1= 29,264,112 lb./sq.in. EH2= 28,875,074 lb./sq.in.
 EH3= 29,665,844 lb./sq.in. EH4= 29,500,856 lb./sq.in.
 EH5= 29,500,856 lb./sq.in. EH6= 29,500,856 lb./sq.in.
 EH7= 29,500,856 lb./sq.in. EH8= 29,500,856 lb./sq.in.
 EH9= 29,500,856 lb./sq.in. v = .292 Pipe Den= .2830000 lb./cu.in.
 Insul Thk= .000 in.

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RESTRAINTS

Node 4180 +Y Mu = .30
 Node 4180 X Gap= .118 in.

ALLOWABLE STRESSES

B31.3 (2016) Cycle Max Switch = --- Sc= 20,000 lb./sq.in.
 Sh1= 20,000 lb./sq.in. Sh2= 20,000 lb./sq.in. Sh3= 20,000 lb./sq.in.
 Sh4= 20,000 lb./sq.in. Sh5= 20,000 lb./sq.in. Sh6= 20,000 lb./sq.in.
 Sh7= 20,000 lb./sq.in. Sh8= 20,000 lb./sq.in. Sh9= 20,000 lb./sq.in.
 Sy= 35,000 lb./sq.in.

 From 4180 To 4200 DZ= 8.474 ft.

From 4200 To 4220 DZ= .437 ft.
 Element Name= FLANGE_FLG_1500
 RIGID Weight= 74.00 lb.

From 4220 To 4240 DZ= .437 ft.
 Element Name= FLANGE_FLG_1500
 RIGID Weight= 74.00 lb.

From 4240 To 4260 DZ= 10.482 ft.
 RESTRAINTS
 Node 4260 +Y Mu = .30

From 4260 To 4280 DZ= 19.685 ft.
 RESTRAINTS
 Node 4280 +Y Mu = .30
 Node 4280 X Gap= .118 in.

From 4280 To 4300 DZ= 19.685 ft.
 RESTRAINTS
 Node 4300 +Y Mu = .30

From 4300 To 4320 DZ= 19.685 ft.
 RESTRAINTS
 Node 4320 +Y Mu = .30
 Node 4320 X Gap= .118 in.

From 4320 To 4340 DZ= 12.736 ft.
 SIF's & TEE's
 Node 4340 Welding Tee

From 4340 To 4360 DZ= 7.441 ft.
 RESTRAINTS
 Node 4360 +Y Mu = .30

From 4340 To 4350 DY= 1.640 ft.

From 4360 To 4380 DZ= 9.931 ft.

From 4380 To 4400 DZ= .437 ft.
 Element Name= FLANGE_FLG_1500
 RIGID Weight= 74.00 lb.

From 4400 To 4420 DZ= .437 ft.
 Element Name= FLANGE_FLG_1500

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INPUT LISTING

RIGID Weight= 74.00 lb.

 From 4420 To 4440 DZ= 9.990 ft.

RESTRAINTS

Node 4440 +Y Mu = .30
 Node 4440 X Gap= .118 in.

 From 4440 To 4460 DZ= 4.734 ft.

 From 4460 To 4480 DY= -.089 ft. DZ= .335 ft.

REDUCER

Diam2= 2.375 in. Wall2= .344 in.

 From 4480 To 4500 DZ= 1.804 ft.

PIPE

Dia= 2.375 in. Wall= .344 in.
 Insul Thk= .000 in.

 From 4500 To 4520 DZ= 1.535 ft.

Element Name= GATE_FLG_1500

RIGID Weight= 110.00 lb.

 From 4520 To 4540 DZ= 2.100 ft.

PIPE

Dia= 2.375 in. Wall= .218 in.
 Insul Thk= .000 in.

 From 4540 To 4560 DY= .089 ft. DZ= .335 ft.

REDUCER

Diam2= 4.500 in. Wall2= .237 in.

 From 4560 To 4580 DZ= 4.593 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.
 Insul Thk= .000 in.

 From 4580 To 4600 DZ= 1.752 ft.

Element Name= CHECK_FLG_600

RIGID Weight= 341.00 lb.

 From 4600 To 4620 DZ= 2.493 ft.

RESTRAINTS

Node 4620 +Y Mu = .30

 From 4620 To 4640 DZ= 4.790 ft.

SIF'S & TEE'S

Node 4640 Welding Tee

 From 4640 To 4660 DY= 1.640 ft.

PIPE

Dia= 4.500 in. Wall= .337 in.
 Insul Thk= .000 in.

 From 4640 To 4680 DZ= 13.189 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.

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INPUT LISTING

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Insul Thk= .000 in.
SIF's & TEE's
Node 4680 Welding Tee
-----
From 4680 To 4700 DY= 1.640 ft.
PIPE
Dia= 4.500 in. Wall= .337 in.
Insul Thk= .000 in.
-----
From 4680 To 4720 DZ= 1.148 ft.
PIPE
Dia= 4.500 in. Wall= .237 in.
Insul Thk= .000 in.
RESTRAINTS
Node 4720 +Y Mu = .30
Node 4720 X Gap= .118 in.
-----
From 4720 To 4740 DZ= 19.685 ft.
RESTRAINTS
Node 4740 +Y Mu = .30
Node 4740 X Gap= .118 in. Mu = .30
-----
From 4740 To 4760 DZ= 11.549 ft.
-----
From 4760 To 4780 DZ= 1.558 ft.
Element Name= GATE_FLG_600
RIGID Weight= 386.00 lb.
-----
From 4780 To 4800 DZ= 2.133 ft.
RESTRAINTS
Node 4800 +Y Mu = .30
-----
From 4800 To 4820 DZ= 1.640 ft.
SIF's & TEE's
Node 4820 Welding Tee
-----
From 4350 To 5180 DY= .961 ft.
PIPE
Dia= 4.500 in. Wall= .337 in.
Insul Thk= .000 in.
SIF's & TEE's
Node 5180 Welding Tee
-----
From 5180 To 4860 DY= .925 ft.
-----
From 4860 To 4880 DY= 2.156 ft.
Element Name= GATE_FLG_600
RIGID Weight= 386.00 lb.
-----
From 4880 To 4900 DY= 3.970 ft.
-----
From 4900 To 4920 DY= .955 ft.
RIGID Weight= 337.23 lb.
FORCES & MOMENTS
Node 4920 FY1= 134.89 lb. FZ1= -202.34 lb.
-----

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INPUT LISTING

From 4920 To 4940 DZ= .899 ft.

PIPE

Dia= 6.625 in. Wall= .337 in.

Insul Thk= .000 in.

RIGID Weight= 337.23 lb.

 From 4940 To 4960 DZ= 3.117 ft.

PIPE

Dia= 6.625 in. Wall= .280 in.

Insul Thk= .000 in.

RESTRAINTS

Node 4960 +Y Mu = .30

Node 4960 X Mu = .30

Node 4960 Z Mu = .30

 From 4960 To 4980 DZ= 3.117 ft.

 From 4980 To 5000 DZ= 1.486 ft.

Element Name= GATE_FLG_600

RIGID Weight= 225.00 lb.

 From 5000 To 5020 DZ= 2.067 ft.

BEND at "TO" end

Radius= 9.000 in. (LONG) Bend Angle= 90.000 Angle/Node @1= 45.00 5019

Angle/Node @2= .00 5018

 From 5020 To 5040 DY= -1.936 ft.

SIF's & TEE's

Node 5040 Welding Tee

 From 5040 To 5060 DY= -1.772 ft.

SIF's & TEE's

Node 5060 Welding Tee

 From 5040 To 5080 DX= -.991 ft. DZ= -.991 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.

Insul Thk= .000 in.

BEND at "TO" end

Radius= 6.000 in. (LONG) Bend Angle= 45.000 Angle/Node @1= 22.50 5079

Angle/Node @2= .00 5078

 From 5080 To 5100 DZ= -6.050 ft.

 From 5100 To 5120 DZ= -2.156 ft.

PIPE

Dia= 4.500 in. Wall= .337 in. Element Name= GATE_FLG_600

Insul Thk= .000 in.

RIGID Weight= 386.00 lb.

 From 5120 To 5140 DZ= -.499 ft.

BEND at "TO" end

Radius= 6.000 in. (LONG) Bend Angle= 90.000 Angle/Node @1= 45.00 5139

 From 5140 To 5160 DY= -6.070 ft.

BEND at "TO" end

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INPUT LISTING

Radius= 6.000 in. (LONG) Bend Angle= 90.000 Angle/Node @1= 45.00 5159
 Angle/Node @2= .00 5158

 From 5160 To 5180 DX= .991 ft. DZ= -.991 ft.

From 4660 To 5200 DY= 1.355 ft.

From 5200 To 5220 DY= 2.149 ft.

Element Name= GATE_FLG_600

RIGID Weight= 386.00 lb.

From 5220 To 5240 DY= 1.312 ft.

SIF's & TEE's

Node 5240 Weldolet

From 4700 To 5260 DY= 1.355 ft.

From 5260 To 5280 DY= 2.146 ft.

Element Name= GATE_FLG_600

RIGID Weight= 386.00 lb.

From 5280 To 5300 DY= 1.312 ft.

SIF's & TEE's

Node 5300 Weldolet

From 6010 To 6020 DZ= .594 ft.

PIPE

Dia= 6.625 in. Wall= .311 in. Cor= .1181 in.

Element Name= FLANGE_FLG_1500

GENERAL

T1= 107 F T2= 185 F T3= 30 F P1= 150.1175 lb./sq.in.

PHyd= 227.7144 lb./sq.in. Mat= (331)API-5L X52 E= 29,500,856 lb./sq.in.

EH1= 29,264,112 lb./sq.in. EH2= 28,875,074 lb./sq.in.

EH3= 29,665,844 lb./sq.in. EH4= 29,500,856 lb./sq.in.

EH5= 29,500,856 lb./sq.in. EH6= 29,500,856 lb./sq.in.

EH7= 29,500,856 lb./sq.in. EH8= 29,500,856 lb./sq.in.

EH9= 29,500,856 lb./sq.in. v = .292 Pipe Den= .2830000 lb./cu.in.

Fluid Den= .0090860 lb./cu.in. Insul Thk= .000 in.

RIGID Weight= 165.00 lb.

UNIFORM LOAD

Vector1 in F/L X1 Dir = .26 lb./in. Y1 Dir = .00 lb./in.

Z1 Dir = .00 lb./in. Vector2 in F/L X2 Dir = .00 lb./in.

Y2 Dir = .00 lb./in. Z2 Dir = .26 lb./in. Vector3 in G-s X3 Dir = .00 g's

Y3 Dir = .00 g's Z3 Dir = .00 g's Vector4 in G-s X4 Dir = .00 g's

Y4 Dir = .00 g's Z4 Dir = .00 g's Vector5 in F/L X5 Dir = .00 lb./in.

Y5 Dir = .00 lb./in. Z5 Dir = .00 lb./in. Vector6 in F/L

X6 Dir = .00 lb./in. Y6 Dir = .00 lb./in. Z6 Dir = .00 lb./in.

Vector7 in F/L X7 Dir = .00 lb./in. Y7 Dir = .00 lb./in.

Z7 Dir = .00 lb./in. Vector8 in F/L X8 Dir = .00 lb./in.

Y8 Dir = .00 lb./in. Z8 Dir = .00 lb./in. Vector9 in F/L

X9 Dir = .00 lb./in. Y9 Dir = .00 lb./in. Z9 Dir = .00 lb./in.

ALLOWABLE STRESSES

B31.3 (2016) Cycle Max Switch = --- Sc= 22,000 lb./sq.in.

Sh1= 22,000 lb./sq.in. Sh2= 22,000 lb./sq.in. Sh3= 22,000 lb./sq.in.

Sh4= 22,000 lb./sq.in. Sh5= 22,000 lb./sq.in. Sh6= 22,000 lb./sq.in.

Sh7= 22,000 lb./sq.in. Sh8= 22,000 lb./sq.in. Sh9= 22,000 lb./sq.in.

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INPUT LISTING

Sy= 52,000 lb./sq.in.

 From 6020 To 6040 DZ= 8.530 ft.

RESTRAINTS

Node 6040 +Y Mu = .30
 Node 6040 Z Mu = .30
 Node 6040 X Mu = .30

 From 6040 To 6060 DZ= 12.795 ft.

 From 6060 To 6080 DZ= 3.346 ft.

Element Name= BALL_FLG_1500

RIGID Weight= 1,045.00 lb.

 From 6080 To 6100 DY= -.089 ft. DZ= .459 ft.

REDUCER

Diam2= 4.500 in. Wall2= .237 in.

 From 6100 To 6120 DZ= 3.018 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.
 Insul Thk= .000 in.

RESTRAINTS

Node 6120 +Y Mu = .30

 From 6120 To 6140 DZ= 5.413 ft.

 From 6140 To 6160 DZ= 2.690 ft.

Element Name= GATE_FLG_1500

RIGID Weight= 1,027.78 lb.

 From 6160 To 6180 DZ= 10.007 ft.

PIPE

Dia= 4.500 in. Wall= .337 in.

GENERAL

Mat= (106)A106 Grade B E= 29,500,856 lb./sq.in.
 EH1= 29,264,112 lb./sq.in. EH2= 28,875,074 lb./sq.in.
 EH3= 29,665,844 lb./sq.in. EH4= 29,500,856 lb./sq.in.
 EH5= 29,500,856 lb./sq.in. EH6= 29,500,856 lb./sq.in.
 EH7= 29,500,856 lb./sq.in. EH8= 29,500,856 lb./sq.in.
 EH9= 29,500,856 lb./sq.in. v = .292 Pipe Den= .2830000 lb./cu.in.
 Insul Thk= .000 in.

RESTRAINTS

Node 6180 +Y Mu = .30
 Node 6180 X Gap= .118 in.

ALLOWABLE STRESSES

B31.3 (2016) Cycle Max Switch = --- Sc= 20,000 lb./sq.in.
 Sh1= 20,000 lb./sq.in. Sh2= 20,000 lb./sq.in. Sh3= 20,000 lb./sq.in.
 Sh4= 20,000 lb./sq.in. Sh5= 20,000 lb./sq.in. Sh6= 20,000 lb./sq.in.
 Sh7= 20,000 lb./sq.in. Sh8= 20,000 lb./sq.in. Sh9= 20,000 lb./sq.in.
 Sy= 35,000 lb./sq.in.

 From 6180 To 6200 DZ= 8.474 ft.

 From 6200 To 6220 DZ= .437 ft.

Element Name= FLANGE_FLG_1500

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INPUT LISTING

RIGID Weight= 74.00 lb.

 From 6220 To 6240 DZ= .437 ft.

Element Name= FLANGE_FLG_1500

RIGID Weight= 74.00 lb.

 From 6240 To 6260 DZ= 10.482 ft.

RESTRAINTS

Node 6260 +Y Mu = .30

 From 6260 To 6280 DZ= 19.685 ft.

RESTRAINTS

Node 6280 +Y Mu = .30

Node 6280 X Gap= .118 in.

 From 6280 To 6300 DZ= 19.685 ft.

RESTRAINTS

Node 6300 +Y Mu = .30

 From 6300 To 6320 DZ= 19.685 ft.

RESTRAINTS

Node 6320 +Y Mu = .30

Node 6320 X Gap= .118 in.

 From 6320 To 6340 DZ= 12.736 ft.

SIF's & TEE's

Node 6340 Welding Tee

 From 6340 To 6360 DZ= 7.441 ft.

RESTRAINTS

Node 6360 +Y Mu = .30

 From 6340 To 6350 DY= 1.640 ft.

 From 6360 To 6380 DZ= 9.931 ft.

 From 6380 To 6400 DZ= .437 ft.

Element Name= FLANGE_FLG_1500

RIGID Weight= 74.00 lb.

 From 6400 To 6420 DZ= .437 ft.

Element Name= FLANGE_FLG_1500

RIGID Weight= 74.00 lb.

 From 6420 To 6440 DZ= 9.990 ft.

RESTRAINTS

Node 6440 +Y Mu = .30

Node 6440 X Gap= .118 in.

 From 6440 To 6460 DZ= 4.734 ft.

 From 6460 To 6480 DY= -.089 ft. DZ= .335 ft.

REDUCER

Diam2= 2.375 in. Wall2= .344 in.

 From 6480 To 6500 DZ= 1.804 ft.

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INPUT LISTING

PIPE

Dia= 2.375 in. Wall= .344 in.
 Insul Thk= .000 in.

 From 6500 To 6520 DZ= 1.535 ft.
 Element Name= GATE_FLG_1500
 RIGID Weight= 110.00 lb.

 From 6520 To 6540 DZ= 2.100 ft.
 PIPE

Dia= 2.375 in. Wall= .218 in.
 Insul Thk= .000 in.

 From 6540 To 6560 DY= .089 ft. DZ= .335 ft.
 REDUCER

Diam2= 4.500 in. Wall2= .237 in.

 From 6560 To 6580 DZ= 4.593 ft.
 PIPE

Dia= 4.500 in. Wall= .237 in.
 Insul Thk= .000 in.

 From 6580 To 6600 DZ= 1.752 ft.
 Element Name= CHECK_FLG_600
 RIGID Weight= 341.00 lb.

 From 6600 To 6620 DZ= 2.493 ft.
 RESTRAINTS

Node 6620 +Y Mu = .30

 From 6620 To 6640 DZ= 4.790 ft.
 SIF's & TEE's

Node 6640 Welding Tee

 From 6640 To 6660 DY= 1.640 ft.
 PIPE

Dia= 4.500 in. Wall= .337 in.
 Insul Thk= .000 in.

 From 6640 To 6680 DZ= 13.189 ft.
 PIPE

Dia= 4.500 in. Wall= .237 in.
 Insul Thk= .000 in.

SIF's & TEE's

Node 6680 Welding Tee

 From 6680 To 6700 DY= 1.640 ft.
 PIPE

Dia= 4.500 in. Wall= .337 in.
 Insul Thk= .000 in.

 From 6680 To 6720 DZ= 1.148 ft.
 PIPE

Dia= 4.500 in. Wall= .237 in.
 Insul Thk= .000 in.

RESTRAINTS

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INPUT LISTING

Node 6720 +Y Mu = .30
 Node 6720 X Gap= .118 in.

 From 6720 To 6740 DZ= 19.685 ft.

RESTRAINTS

Node 6740 +Y Mu = .30
 Node 6740 X Gap= .118 in.

 From 6740 To 6760 DZ= 11.549 ft.

 From 6760 To 6780 DZ= 1.558 ft.

Element Name= GATE_FLG_600

RIGID Weight= 386.00 lb.

 From 6780 To 6800 DZ= 2.133 ft.

RESTRAINTS

Node 6800 +Y Mu = .30

 From 6800 To 6820 DZ= 1.640 ft.

SIF's & TEE's

Node 6820 Welding Tee

 From 6350 To 7180 DY= .961 ft.

PIPE

Dia= 4.500 in. Wall= .337 in.

Insul Thk= .000 in.

SIF's & TEE's

Node 7180 Welding Tee

 From 7180 To 6860 DY= .925 ft.

 From 6860 To 6880 DY= 2.156 ft.

Element Name= GATE_FLG_600

RIGID Weight= 386.00 lb.

 From 6880 To 6900 DY= 3.970 ft.

 From 6900 To 6920 DY= .955 ft.

RIGID Weight= 337.23 lb.

FORCES & MOMENTS

Node 6920 FY1= 134.89 lb. FZ1= -202.34 lb.

 From 6920 To 6940 DZ= .899 ft.

PIPE

Dia= 6.625 in. Wall= .337 in.

Insul Thk= .000 in.

RIGID Weight= 337.23 lb.

 From 6940 To 6960 DZ= 3.117 ft.

PIPE

Dia= 6.625 in. Wall= .280 in.

Insul Thk= .000 in.

RESTRAINTS

Node 6960 +Y Mu = .30

Node 6960 X Mu = .30

Node 6960 Z Mu = .30

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INPUT LISTING

 From 6960 To 6980 DZ= 3.117 ft.

From 6980 To 7000 DZ= 1.486 ft.
 Element Name= GATE_FLG_600
 RIGID Weight= 225.00 lb.

From 7000 To 7020 DZ= 2.067 ft.
 BEND at "TO" end
 Radius= 9.000 in. (LONG) Bend Angle= 90.000 Angle/Node @1= 45.00 7019
 Angle/Node @2= .00 7018

From 7020 To 7040 DY= -1.936 ft.
 SIF's & TEE's
 Node 7040 Welding Tee

From 7040 To 7060 DY= -1.772 ft.
 SIF's & TEE's
 Node 7060 Welding Tee

From 7040 To 7080 DX= -.991 ft. DZ= -.991 ft.
 PIPE
 Dia= 4.500 in. Wall= .237 in.
 Insul Thk= .000 in.
 BEND at "TO" end
 Radius= 6.000 in. (LONG) Bend Angle= 45.000 Angle/Node @1= 22.50 7079
 Angle/Node @2= .00 7078

From 7080 To 7100 DZ= -6.050 ft.

From 7100 To 7120 DZ= -2.156 ft.
 PIPE
 Dia= 4.500 in. Wall= .337 in. Element Name= GATE_FLG_600
 Insul Thk= .000 in.
 RIGID Weight= 386.00 lb.

From 7120 To 7140 DZ= -.499 ft.
 BEND at "TO" end
 Radius= 6.000 in. (LONG) Bend Angle= 90.000 Angle/Node @1= 45.00 7139

From 7140 To 7160 DY= -6.070 ft.
 BEND at "TO" end
 Radius= 6.000 in. (LONG) Bend Angle= 90.000 Angle/Node @1= 45.00 7159
 Angle/Node @2= .00 7158

From 7160 To 7180 DX= .991 ft. DZ= -.991 ft.

From 6660 To 7200 DY= 1.355 ft.

From 7200 To 7220 DY= 2.149 ft.
 Element Name= GATE_FLG_600
 RIGID Weight= 386.00 lb.

From 7220 To 7240 DY= 1.312 ft.
 SIF's & TEE's
 Node 7240 Weldolet

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INPUT LISTING

 From 6700 To 7260 DY= 1.355 ft.

 From 7260 To 7280 DY= 2.146 ft.
 Element Name= GATE_FLG_600
 RIGID Weight= 386.00 lb.

 From 7280 To 7300 DY= 1.312 ft.
 SIF's & TEE's
 Node 7300 Weldolet

 From 8010 To 8020 DZ= .594 ft.
 PIPE

Dia= 6.625 in. Wall= .311 in. Cor= .1181 in.
 Element Name= FLANGE_FLG_1500

GENERAL

T1= 107 F T2= 185 F T3= 30 F P1= 150.1175 lb./sq.in.
 Phyd= 227.7144 lb./sq.in. Mat= (331)API-5L X52 E= 29,500,856 lb./sq.in.
 EH1= 29,264,112 lb./sq.in. EH2= 28,875,074 lb./sq.in.
 EH3= 29,665,844 lb./sq.in. EH4= 29,500,856 lb./sq.in.
 EH5= 29,500,856 lb./sq.in. EH6= 29,500,856 lb./sq.in.
 EH7= 29,500,856 lb./sq.in. EH8= 29,500,856 lb./sq.in.
 EH9= 29,500,856 lb./sq.in. v = .292 Pipe Den= .2830000 lb./cu.in.
 Fluid Den= .0090860 lb./cu.in. Insul Thk= .000 in.

RIGID Weight= 165.00 lb.

UNIFORM LOAD

Vector1 in F/L X1 Dir = .26 lb./in. Y1 Dir = .00 lb./in.
 Z1 Dir = .00 lb./in. Vector2 in F/L X2 Dir = .00 lb./in.
 Y2 Dir = .00 lb./in. Z2 Dir = .26 lb./in. Vector3 in G-s X3 Dir = .00 g's
 Y3 Dir = .00 g's Z3 Dir = .00 g's Vector4 in G-s X4 Dir = .00 g's
 Y4 Dir = .00 g's Z4 Dir = .00 g's Vector5 in F/L X5 Dir = .00 lb./in.
 Y5 Dir = .00 lb./in. Z5 Dir = .00 lb./in. Vector6 in F/L
 X6 Dir = .00 lb./in. Y6 Dir = .00 lb./in. Z6 Dir = .00 lb./in.
 Vector7 in F/L X7 Dir = .00 lb./in. Y7 Dir = .00 lb./in.
 Z7 Dir = .00 lb./in. Vector8 in F/L X8 Dir = .00 lb./in.
 Y8 Dir = .00 lb./in. Z8 Dir = .00 lb./in. Vector9 in F/L
 X9 Dir = .00 lb./in. Y9 Dir = .00 lb./in. Z9 Dir = .00 lb./in.

ALLOWABLE STRESSES

B31.3 (2016) Cycle Max Switch = --- Sc= 22,000 lb./sq.in.
 Sh1= 22,000 lb./sq.in. Sh2= 22,000 lb./sq.in. Sh3= 22,000 lb./sq.in.
 Sh4= 22,000 lb./sq.in. Sh5= 22,000 lb./sq.in. Sh6= 22,000 lb./sq.in.
 Sh7= 22,000 lb./sq.in. Sh8= 22,000 lb./sq.in. Sh9= 22,000 lb./sq.in.
 Sy= 52,000 lb./sq.in.

 From 8020 To 8040 DZ= 8.530 ft.

RESTRAINTS

Node 8040 +Y Mu = .30
 Node 8040 Z Mu = .30
 Node 8040 X Mu = .30

 From 8040 To 8060 DZ= 12.795 ft.

 From 8060 To 8080 DZ= 3.346 ft.

Element Name= BALL_FLG_1500
 RIGID Weight= 1,045.00 lb.

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INPUT LISTING

From 8080 To 8100 DY= -.089 ft. DZ= .459 ft.

REDUCER

Diam2= 4.500 in. Wall2= .237 in.

 From 8100 To 8120 DZ= 3.018 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.

Insul Thk= .000 in.

RESTRAINTS

Node 8120 +Y Mu = .30

 From 8120 To 8140 DZ= 10.335 ft.

 From 8140 To 8160 DZ= 2.690 ft.

Element Name= GATE_FLG_1500

RIGID Weight= 1,027.78 lb.

 From 8160 To 8180 DZ= 5.085 ft.

PIPE

Dia= 4.500 in. Wall= .337 in.

GENERAL

Mat= (106)A106 Grade B E= 29,500,856 lb./sq.in.

EH1= 29,264,112 lb./sq.in. EH2= 28,875,074 lb./sq.in.

EH3= 29,665,844 lb./sq.in. EH4= 29,500,856 lb./sq.in.

EH5= 29,500,856 lb./sq.in. EH6= 29,500,856 lb./sq.in.

EH7= 29,500,856 lb./sq.in. EH8= 29,500,856 lb./sq.in.

EH9= 29,500,856 lb./sq.in. v = .292 Pipe Den= .2830000 lb./cu.in.

Insul Thk= .000 in.

RESTRAINTS

Node 8180 +Y Mu = .30

Node 8180 X Gap= .118 in.

ALLOWABLE STRESSES

B31.3 (2016) Cycle Max Switch = --- Sc= 20,000 lb./sq.in.

Sh1= 20,000 lb./sq.in. Sh2= 20,000 lb./sq.in. Sh3= 20,000 lb./sq.in.

Sh4= 20,000 lb./sq.in. Sh5= 20,000 lb./sq.in. Sh6= 20,000 lb./sq.in.

Sh7= 20,000 lb./sq.in. Sh8= 20,000 lb./sq.in. Sh9= 20,000 lb./sq.in.

Sy= 35,000 lb./sq.in.

 From 8180 To 8200 DZ= 8.474 ft.

 From 8200 To 8220 DZ= .437 ft.

Element Name= FLANGE_FLG_1500

RIGID Weight= 74.00 lb.

 From 8220 To 8240 DZ= .437 ft.

Element Name= FLANGE_FLG_1500

RIGID Weight= 74.00 lb.

 From 8240 To 8260 DZ= 10.482 ft.

RESTRAINTS

Node 8260 +Y Mu = .30

 From 8260 To 8280 DZ= 19.685 ft.

RESTRAINTS

Node 8280 +Y Mu = .30

Node 8280 X Gap= .118 in.

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INPUT LISTING

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-----
From 8280 To 8300 DZ= 19.685 ft.
RESTRAINTS
  Node 8300 +Y Mu = .30
-----
From 8300 To 8320 DZ= 19.685 ft.
RESTRAINTS
  Node 8320 +Y Mu = .30
  Node 8320 X Gap= .118 in.
-----
From 8320 To 8340 DZ= 12.736 ft.
SIF's & TEE's
  Node 8340 Welding Tee
-----
From 8340 To 8360 DZ= 7.441 ft.
RESTRAINTS
  Node 8360 +Y Mu = .30
-----
From 8340 To 8350 DY= 1.640 ft.
-----
From 8360 To 8380 DZ= 9.931 ft.
-----
From 8380 To 8400 DZ= .437 ft.
  Element Name= FLANGE_FLG_1500
RIGID Weight= 74.00 lb.
-----
From 8400 To 8420 DZ= .437 ft.
  Element Name= FLANGE_FLG_1500
RIGID Weight= 74.00 lb.
-----
From 8420 To 8440 DZ= 9.990 ft.
RESTRAINTS
  Node 8440 +Y Mu = .30
  Node 8440 X Gap= .118 in.
-----
From 8440 To 8460 DZ= 4.734 ft.
-----
From 8460 To 8480 DY= -.089 ft. DZ= .335 ft.
REDUCER
  Diam2= 2.375 in. Wall2= .344 in.
-----
From 8480 To 8500 DZ= 1.804 ft.
PIPE
  Dia= 2.375 in. Wall= .344 in.
  Insul Thk= .000 in.
-----
From 8500 To 8520 DZ= 1.535 ft.
  Element Name= GATE_FLG_1500
RIGID Weight= 110.00 lb.
-----
From 8520 To 8540 DZ= 2.100 ft.
PIPE
  Dia= 2.375 in. Wall= .218 in.
  Insul Thk= .000 in.
-----
From 8540 To 8560 DY= .089 ft. DZ= .335 ft.

```

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REDUCER

Diam2= 4.500 in. Wall2= .237 in.

From 8560 To 8580 DZ= 4.593 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.
 Insul Thk= .000 in.

From 8580 To 8600 DZ= 1.752 ft.

Element Name= CHECK_FLG_600

RIGID Weight= 341.00 lb.

From 8600 To 8620 DZ= 2.493 ft.

RESTRAINTS

Node 8620 +Y Mu = .30

From 8620 To 8640 DZ= 4.790 ft.

SIF'S & TEE'S

Node 8640 Welding Tee

From 8640 To 8660 DY= 1.640 ft.

PIPE

Dia= 4.500 in. Wall= .337 in.
 Insul Thk= .000 in.

From 8640 To 8680 DZ= 13.189 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.
 Insul Thk= .000 in.

SIF'S & TEE'S

Node 8680 Welding Tee

From 8680 To 8700 DY= 1.640 ft.

PIPE

Dia= 4.500 in. Wall= .337 in.
 Insul Thk= .000 in.

From 8680 To 8720 DZ= 1.148 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.
 Insul Thk= .000 in.

RESTRAINTS

Node 8720 +Y Mu = .30
 Node 8720 X Gap= .118 in.

From 8720 To 8740 DZ= 19.685 ft.

RESTRAINTS

Node 8740 +Y Mu = .30
 Node 8740 X Gap= .118 in.

From 8740 To 8760 DZ= 11.549 ft.

From 8760 To 8780 DZ= 1.558 ft.

Element Name= GATE_FLG_600

RIGID Weight= 386.00 lb.

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INPUT LISTING

From 8780 To 8800 DZ= 2.133 ft.

RESTRAINTS

Node 8800 +Y Mu = .30

From 8800 To 8820 DZ= 1.640 ft.

SIF'S & TEE'S

Node 8820 Welding Tee

From 8350 To 9180 DY= .961 ft.

PIPE

Dia= 4.500 in. Wall= .337 in.

Insul Thk= .000 in.

SIF'S & TEE'S

Node 9180 Welding Tee

From 9180 To 8860 DY= .925 ft.

From 8860 To 8880 DY= 2.156 ft.

Element Name= GATE_FLG_600

RIGID Weight= 386.00 lb.

From 8880 To 8900 DY= 3.970 ft.

From 8900 To 8920 DY= .955 ft.

RIGID Weight= 337.23 lb.

FORCES & MOMENTS

Node 8920 FY1= 134.89 lb. FZ1= -202.34 lb.

From 8920 To 8940 DZ= .899 ft.

PIPE

Dia= 6.625 in. Wall= .337 in.

Insul Thk= .000 in.

RIGID Weight= 337.23 lb.

From 8940 To 8960 DZ= 3.117 ft.

PIPE

Dia= 6.625 in. Wall= .280 in.

Insul Thk= .000 in.

RESTRAINTS

Node 8960 +Y Mu = .30

Node 8960 X Mu = .30

Node 8960 Z Mu = .30

From 8960 To 8980 DZ= 3.117 ft.

From 8980 To 9000 DZ= 1.486 ft.

Element Name= GATE_FLG_600

RIGID Weight= 225.00 lb.

From 9000 To 9020 DZ= 2.067 ft.

BEND at "TO" end

Radius= 9.000 in. (LONG) Bend Angle= 90.000 Angle/Node @1= 45.00 9019

Angle/Node @2= .00 9018

From 9020 To 9040 DY= -1.936 ft.

SIF'S & TEE'S

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INPUT LISTING

```

Node 9040 Welding Tee
-----
From 9040 To 9060 DY= -1.772 ft.
SIF's & TEE's
Node 9060 Welding Tee
-----
From 9040 To 9080 DX= -.991 ft. DZ= -.991 ft.
PIPE
Dia= 4.500 in. Wall= .237 in.
Insul Thk= .000 in.
BEND at "TO" end
Radius= 6.000 in. (LONG) Bend Angle= 45.000 Angle/Node @1= 22.50 9079
Angle/Node @2= .00 9078
-----
From 9080 To 9100 DZ= -6.050 ft.
-----
From 9100 To 9120 DZ= -2.156 ft.
PIPE
Dia= 4.500 in. Wall= .337 in. Element Name= GATE_FLG_600
Insul Thk= .000 in.
RIGID Weight= 386.00 lb.
-----
From 9120 To 9140 DZ= -.499 ft.
BEND at "TO" end
Radius= 6.000 in. (LONG) Bend Angle= 90.000 Angle/Node @1= 45.00 9139
-----
From 9140 To 9160 DY= -6.070 ft.
BEND at "TO" end
Radius= 6.000 in. (LONG) Bend Angle= 90.000 Angle/Node @1= 45.00 9159
Angle/Node @2= .00 9158
-----
From 9160 To 9180 DX= .991 ft. DZ= -.991 ft.
-----
From 8660 To 9200 DY= 1.355 ft.
-----
From 9200 To 9220 DY= 2.149 ft.
Element Name= GATE_FLG_600
RIGID Weight= 386.00 lb.
-----
From 9220 To 9240 DY= 1.312 ft.
SIF's & TEE's
Node 9240 Weldolet
-----
From 8700 To 9260 DY= 1.355 ft.
-----
From 9260 To 9280 DY= 2.146 ft.
Element Name= GATE_FLG_600
RIGID Weight= 386.00 lb.
-----
From 9280 To 9300 DY= 1.312 ft.
SIF's & TEE's
Node 9300 Weldolet
-----
From 10010 To 10020 DZ= .594 ft.
PIPE
Dia= 6.625 in. Wall= .311 in. Cor= .1181 in.

```

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INPUT LISTING

Element Name= FLANGE_FLG_1500

GENERAL

T1= 107 F T2= 185 F T3= 30 F P1= 150.1175 lb./sq.in.
 PHyd= 227.7144 lb./sq.in. Mat= (331)API-5L X52 E= 29,500,856 lb./sq.in.
 EH1= 29,264,112 lb./sq.in. EH2= 28,875,074 lb./sq.in.
 EH3= 29,665,844 lb./sq.in. EH4= 29,500,856 lb./sq.in.
 EH5= 29,500,856 lb./sq.in. EH6= 29,500,856 lb./sq.in.
 EH7= 29,500,856 lb./sq.in. EH8= 29,500,856 lb./sq.in.
 EH9= 29,500,856 lb./sq.in. v = .292 Pipe Den= .2830000 lb./cu.in.
 Fluid Den= .0090860 lb./cu.in. Insul Thk= .000 in.

RIGID Weight= 165.00 lb.

UNIFORM LOAD

Vector1 in F/L X1 Dir = .26 lb./in. Y1 Dir = .00 lb./in.
 Z1 Dir = .00 lb./in. Vector2 in F/L X2 Dir = .00 lb./in.
 Y2 Dir = .00 lb./in. Z2 Dir = .26 lb./in. Vector3 in G-s X3 Dir = .00 g's
 Y3 Dir = .00 g's Z3 Dir = .00 g's Vector4 in G-s X4 Dir = .00 g's
 Y4 Dir = .00 g's Z4 Dir = .00 g's Vector5 in F/L X5 Dir = .00 lb./in.
 Y5 Dir = .00 lb./in. Z5 Dir = .00 lb./in. Vector6 in F/L
 X6 Dir = .00 lb./in. Y6 Dir = .00 lb./in. Z6 Dir = .00 lb./in.
 Vector7 in F/L X7 Dir = .00 lb./in. Y7 Dir = .00 lb./in.
 Z7 Dir = .00 lb./in. Vector8 in F/L X8 Dir = .00 lb./in.
 Y8 Dir = .00 lb./in. Z8 Dir = .00 lb./in. Vector9 in F/L
 X9 Dir = .00 lb./in. Y9 Dir = .00 lb./in. Z9 Dir = .00 lb./in.

ALLOWABLE STRESSES

B31.3 (2016) Cycle Max Switch = --- Sc= 22,000 lb./sq.in.
 Sh1= 22,000 lb./sq.in. Sh2= 22,000 lb./sq.in. Sh3= 22,000 lb./sq.in.
 Sh4= 22,000 lb./sq.in. Sh5= 22,000 lb./sq.in. Sh6= 22,000 lb./sq.in.
 Sh7= 22,000 lb./sq.in. Sh8= 22,000 lb./sq.in. Sh9= 22,000 lb./sq.in.
 Sy= 52,000 lb./sq.in.

 From 10020 To 10040 DZ= 8.530 ft.

RESTRAINTS

Node 10040 +Y Mu = .30
 Node 10040 Z Mu = .30
 Node 10040 X Mu = .30

 From 10040 To 10060 DZ= 12.795 ft.

 From 10060 To 10080 DZ= 3.346 ft.

Element Name= BALL_FLG_1500

RIGID Weight= 1,045.00 lb.

 From 10080 To 10100 DY= -.089 ft. DZ= .459 ft.

REDUCER

Diam2= 4.500 in. Wall2= .237 in.

 From 10100 To 10120 DZ= 3.018 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.
 Insul Thk= .000 in.

RESTRAINTS

Node 10120 +Y Mu = .30

 From 10120 To 10140 DZ= 5.413 ft.

 From 10140 To 10160 DZ= 2.690 ft.

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INPUT LISTING

Element Name= GATE_FLG_1500
 RIGID Weight= 1,027.78 lb.

 From 10160 To 10180 DZ= 10.007 ft.

PIPE

Dia= 4.500 in. Wall= .337 in.

GENERAL

Mat= (106)A106 Grade B E= 29,500,856 lb./sq.in.
 EH1= 29,264,112 lb./sq.in. EH2= 28,875,074 lb./sq.in.
 EH3= 29,665,844 lb./sq.in. EH4= 29,500,856 lb./sq.in.
 EH5= 29,500,856 lb./sq.in. EH6= 29,500,856 lb./sq.in.
 EH7= 29,500,856 lb./sq.in. EH8= 29,500,856 lb./sq.in.
 EH9= 29,500,856 lb./sq.in. v = .292 Pipe Den= .2830000 lb./cu.in.
 Insul Thk= .000 in.

RESTRAINTS

Node 10180 +Y Mu = .30
 Node 10180 X Gap= .118 in.

ALLOWABLE STRESSES

B31.3 (2016) Cycle Max Switch = --- Sc= 20,000 lb./sq.in.
 Sh1= 20,000 lb./sq.in. Sh2= 20,000 lb./sq.in. Sh3= 20,000 lb./sq.in.
 Sh4= 20,000 lb./sq.in. Sh5= 20,000 lb./sq.in. Sh6= 20,000 lb./sq.in.
 Sh7= 20,000 lb./sq.in. Sh8= 20,000 lb./sq.in. Sh9= 20,000 lb./sq.in.
 Sy= 35,000 lb./sq.in.

 From 10180 To 10200 DZ= 8.474 ft.

 From 10200 To 10220 DZ= .437 ft.

Element Name= FLANGE_FLG_1500
 RIGID Weight= 74.00 lb.

 From 10220 To 10240 DZ= .437 ft.

Element Name= FLANGE_FLG_1500
 RIGID Weight= 74.00 lb.

 From 10240 To 10260 DZ= 10.482 ft.

RESTRAINTS

Node 10260 +Y Mu = .30

 From 10260 To 10280 DZ= 19.685 ft.

RESTRAINTS

Node 10280 +Y Mu = .30
 Node 10280 X Gap= .118 in.

 From 10280 To 10300 DZ= 19.685 ft.

RESTRAINTS

Node 10300 +Y Mu = .30

 From 10300 To 10320 DZ= 19.685 ft.

RESTRAINTS

Node 10320 +Y Mu = .30
 Node 10320 X Gap= .118 in.

 From 10320 To 10340 DZ= 12.736 ft.

SIF's & TEE's

Node 10340 Welding Tee

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INPUT LISTING

From 10340 To 10360 DZ= 7.441 ft.

RESTRAINTS

Node 10360 +Y Mu = .30

 From 10340 To 10350 DY= 1.640 ft.

From 10360 To 10380 DZ= 9.931 ft.

From 10380 To 10400 DZ= .437 ft.

Element Name= FLANGE_FLG_1500

RIGID Weight= 74.00 lb.

From 10400 To 10420 DZ= .437 ft.

Element Name= FLANGE_FLG_1500

RIGID Weight= 74.00 lb.

From 10420 To 10440 DZ= 9.990 ft.

RESTRAINTS

Node 10440 +Y Mu = .30

Node 10440 X Gap= .118 in.

From 10440 To 10460 DZ= 4.734 ft.

From 10460 To 10480 DY= -.089 ft. DZ= .335 ft.

REDUCER

Diam2= 2.375 in. Wall2= .344 in.

From 10480 To 10500 DZ= 1.804 ft.

PIPE

Dia= 2.375 in. Wall= .344 in.

Insul Thk= .000 in.

From 10500 To 10520 DZ= 1.535 ft.

Element Name= GATE_FLG_1500

RIGID Weight= 110.00 lb.

From 10520 To 10540 DZ= 2.100 ft.

PIPE

Dia= 2.375 in. Wall= .218 in.

Insul Thk= .000 in.

From 10540 To 10560 DY= .089 ft. DZ= .335 ft.

REDUCER

Diam2= 4.500 in. Wall2= .237 in.

From 10560 To 10580 DZ= 4.593 ft.

PIPE

Dia= 4.500 in. Wall= .237 in.

Insul Thk= .000 in.

From 10580 To 10600 DZ= 1.752 ft.

Element Name= CHECK_FLG_600

RIGID Weight= 341.00 lb.

From 10600 To 10620 DZ= 2.493 ft.

RESTRAINTS

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INPUT LISTING

```

Node 10620 +Y Mu = .30
-----
From 10620 To 10640 DZ= 4.790 ft.
SIF's & TEE's
Node 10640 Welding Tee
-----
From 10640 To 10660 DY= 1.640 ft.
PIPE
Dia= 4.500 in. Wall= .337 in.
Insul Thk= .000 in.
-----
From 10640 To 10680 DZ= 13.189 ft.
PIPE
Dia= 4.500 in. Wall= .237 in.
Insul Thk= .000 in.
SIF's & TEE's
Node 10680 Welding Tee
-----
From 10680 To 10700 DY= 1.640 ft.
PIPE
Dia= 4.500 in. Wall= .337 in.
Insul Thk= .000 in.
-----
From 10680 To 10720 DZ= 1.148 ft.
PIPE
Dia= 4.500 in. Wall= .237 in.
Insul Thk= .000 in.
RESTRAINTS
Node 10720 +Y Mu = .30
Node 10720 X Gap= .118 in.
-----
From 10720 To 10740 DZ= 19.685 ft.
RESTRAINTS
Node 10740 +Y Mu = .30
Node 10740 X Gap= .118 in.
-----
From 10740 To 10760 DZ= 11.549 ft.
-----
From 10760 To 10780 DZ= 1.558 ft.
Element Name= GATE_FLG_600
RIGID Weight= 386.00 lb.
-----
From 10780 To 10800 DZ= 2.133 ft.
RESTRAINTS
Node 10800 +Y Mu = .30
-----
From 10800 To 12820 DZ= 1.640 ft.
SIF's & TEE's
Node 12820 Welding Tee
-----
From 10350 To 11180 DY= .961 ft.
PIPE
Dia= 4.500 in. Wall= .337 in.
Insul Thk= .000 in.
SIF's & TEE's
Node 11180 Welding Tee

```

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INPUT LISTING

 From 11180 To 10860 DY= .925 ft.

From 10860 To 10880 DY= 2.156 ft.
 Element Name= GATE_FLG_600
 RIGID Weight= 386.00 lb.

From 10880 To 10900 DY= 3.970 ft.

From 10900 To 10920 DY= .955 ft.
 RIGID Weight= 337.23 lb.
 FORCES & MOMENTS
 Node 10920 FY1= 134.89 lb. FZ1= -202.34 lb.

From 10920 To 10940 DZ= .899 ft.
 PIPE
 Dia= 6.625 in. Wall= .337 in.
 Insul Thk= .000 in.
 RIGID Weight= 337.23 lb.

From 10940 To 10960 DZ= 3.117 ft.
 PIPE
 Dia= 6.625 in. Wall= .280 in.
 Insul Thk= .000 in.
 RESTRAINTS
 Node 10960 +Y Mu = .30
 Node 10960 X Mu = .30
 Node 10960 Z Mu = .30

From 10960 To 10980 DZ= 3.117 ft.

From 10980 To 11000 DZ= 1.486 ft.
 Element Name= GATE_FLG_600
 RIGID Weight= 225.00 lb.

From 11000 To 11020 DZ= 2.067 ft.
 BEND at "TO" end
 Radius= 9.000 in. (LONG) Bend Angle= 90.000 Angle/Node @1= 45.00 11019
 Angle/Node @2= .00 11018

From 11020 To 11040 DY= -1.936 ft.
 SIF's & TEE's
 Node 11040 Welding Tee

From 11040 To 11060 DY= -1.772 ft.
 SIF's & TEE's
 Node 11060 Welding Tee

From 11040 To 11080 DX= -.991 ft. DZ= -.991 ft.
 PIPE
 Dia= 4.500 in. Wall= .237 in.
 Insul Thk= .000 in.
 BEND at "TO" end
 Radius= 6.000 in. (LONG) Bend Angle= 45.000 Angle/Node @1= 22.50 11079
 Angle/Node @2= .00 11078

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INPUT LISTING

```

From 11080 To 11100 DZ= -6.050 ft.
-----
From 11100 To 11120 DZ= -2.156 ft.
PIPE
  Dia= 4.500 in.   Wall= .337 in.   Element Name= GATE_FLG_600
  Insul Thk= .000 in.
RIGID Weight= 386.00 lb.
-----
From 11120 To 11140 DZ= -.499 ft.
BEND at "TO" end
  Radius= 6.000 in. (LONG)   Bend Angle= 90.000   Angle/Node @1= 45.00 11139
-----
From 11140 To 11160 DY= -6.070 ft.
BEND at "TO" end
  Radius= 6.000 in. (LONG)   Bend Angle= 90.000   Angle/Node @1= 45.00 11159
  Angle/Node @2= .00 11158
-----
From 11160 To 11180 DX= .991 ft.   DZ= -.991 ft.
-----
From 10660 To 11200 DY= 1.355 ft.
-----
From 11200 To 11220 DY= 2.149 ft.
  Element Name= GATE_FLG_600
RIGID Weight= 386.00 lb.
-----
From 11220 To 11240 DY= 1.312 ft.
SIF's & TEE's
  Node 11240   Weldolet
-----
From 10700 To 11260 DY= 1.355 ft.
-----
From 11260 To 11280 DY= 2.146 ft.
  Element Name= GATE_FLG_600
RIGID Weight= 386.00 lb.
-----
From 11280 To 11300 DY= 1.312 ft.
SIF's & TEE's
  Node 11300   Weldolet
-----
From 1060 To 11320 DX= .656 ft.
PIPE
  Dia= 10.750 in.   Wall= .250 in.
  Insul Thk= .000 in.
-----
From 1060 To 3060 DX= -2.133 ft.
PIPE
  Dia= 10.750 in.   Wall= .250 in.
  Insul Thk= .000 in.
-----
From 3060 To 5060 DX= -2.133 ft.
-----
From 5060 To 7060 DX= -2.133 ft.
-----
From 7060 To 9060 DX= -2.133 ft.
-----
From 9060 To 11060 DX= -2.133 ft.

```

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INPUT LISTING

 From 11060 To 14000 DX= -4.003 ft.
 BEND at "TO" end
 Radius= 15.000 in. (LONG) Bend Angle= 90.000 Angle/Node @1= 45.00 13999
 Angle/Node @2= .00 13998

From 14000 To 14020 DY= -6.398 ft.
 SIF's & TEE's
 Node 14020 Welding Tee

From 14020 To 14040 DZ= -3.245 ft.
 RESTRAINTS
 Node 14040 +Y Mu = .30

From 14040 To 14060 DZ= -19.685 ft.
 RESTRAINTS
 Node 14060 +Y Mu = .30
 Node 14060 X Gap= .118 in.

From 14060 To 14080 DZ= -19.685 ft.
 RESTRAINTS
 Node 14080 +Y Mu = .30

From 14080 To 14100 DZ= -19.685 ft.
 RESTRAINTS
 Node 14100 +Y Mu = .30
 Node 14100 X Gap= .118 in.

From 14100 To 14120 DZ= -19.685 ft.
 RESTRAINTS
 Node 14120 +Y Mu = .30

From 14120 To 14140 DZ= -19.685 ft.
 RESTRAINTS
 Node 14140 +Y Mu = .30
 Node 14140 X Gap= .118 in.

From 14140 To 14160 DZ= -19.685 ft.
 RESTRAINTS
 Node 14160 +Y Mu = .30
 Node 14160 Z Mu = .30

From 14160 To 14180 DZ= -19.685 ft.
 RESTRAINTS
 Node 14180 +Y Mu = .30
 Node 14180 X

From 14180 To 14200 DZ= -3.281 ft.

From 14020 To 14220 DZ= 17.552 ft.
 RESTRAINTS
 Node 14220 +Y Mu = .30
 Node 14220 X Gap= .118 in.

From 1240 To 14240 DX= .984 ft.
 PIPE

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INPUT LISTING

Dia= 12.750 in. Wall= .688 in.
 Insul Thk= .000 in.

 From 1240 To 3240 DX= -2.133 ft.

From 3240 To 5240 DX= -2.133 ft.

From 5240 To 7240 DX= -2.133 ft.

From 7240 To 9240 DX= -2.133 ft.

From 9240 To 11240 DX= -2.133 ft.

From 11240 To 14300 DX= -1.640 ft.

From 14300 To 14320 DX= -.542 ft.

Element Name= FLANGE_FLG_600

RIGID Weight= 227.00 lb.

From 1300 To 14340 DX= .984 ft.

PIPE

Dia= 12.750 in. Wall= .688 in.

Insul Thk= .000 in.

From 1300 To 3300 DX= -2.133 ft.

From 3300 To 5300 DX= -2.133 ft.

From 5300 To 7300 DX= -2.133 ft.

From 7300 To 9300 DX= -2.133 ft.

From 9300 To 11300 DX= -2.133 ft.

From 11300 To 14400 DX= -1.640 ft.

From 14400 To 14420 DX= -.542 ft.

Element Name= FLANGE_FLG_600

RIGID Weight= 227.00 lb.

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MATERIAL Changes:

10 20

Mat= (331)API-5L X52 E= 29,500,856 lb./sq.in. v = .292

Density= .2830 lb./cu.in.

160 180

Mat= (106)A106 Grade B E= 29,500,856 lb./sq.in. v = .292

Density= .2830 lb./cu.in.

2010 2020

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INPUT LISTING

Mat= (331)API-5L X52 E= 29,500,856 lb./sq.in. v = .292
 Density= .2830 lb./cu.in.
 2160 2180

Mat= (106)A106 Grade B E= 29,500,856 lb./sq.in. v = .292
 Density= .2830 lb./cu.in.
 4010 4020

Mat= (331)API-5L X52 E= 29,500,856 lb./sq.in. v = .292
 Density= .2830 lb./cu.in.
 4160 4180

Mat= (106)A106 Grade B E= 29,500,856 lb./sq.in. v = .292
 Density= .2830 lb./cu.in.
 6010 6020

Mat= (331)API-5L X52 E= 29,500,856 lb./sq.in. v = .292
 Density= .2830 lb./cu.in.
 6160 6180

Mat= (106)A106 Grade B E= 29,500,856 lb./sq.in. v = .292
 Density= .2830 lb./cu.in.
 8010 8020

Mat= (331)API-5L X52 E= 29,500,856 lb./sq.in. v = .292
 Density= .2830 lb./cu.in.
 8160 8180

Mat= (106)A106 Grade B E= 29,500,856 lb./sq.in. v = .292
 Density= .2830 lb./cu.in.
 10010 10020

Mat= (331)API-5L X52 E= 29,500,856 lb./sq.in. v = .292
 Density= .2830 lb./cu.in.
 10160 10180

Mat= (106)A106 Grade B E= 29,500,856 lb./sq.in. v = .292
 Density= .2830 lb./cu.in.

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 JOBNAME: D:\H I R G A N\BINAK\BIN-001\BIN-001 REV01

ALLOWABLE STRESS Changes

10 20

B31.3 (2016) Cycle Max Switch = --- Sc= 22,000 lb./sq.in.

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Job:: BIN-001 REV01

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INPUT LISTING

```
Sh1= 22,000 lb./sq.in.   Sh2= 22,000 lb./sq.in.   Sh3= 22,000 lb./sq.in.
Sh4= 22,000 lb./sq.in.   Sh5= 22,000 lb./sq.in.   Sh6= 22,000 lb./sq.in.
Sh7= 22,000 lb./sq.in.   Sh8= 22,000 lb./sq.in.   Sh9= 22,000 lb./sq.in.
Sy= 52,000 lb./sq.in.
    160                               180
```

```
B31.3 (2016)           Cycle Max Switch = ---   Sc= 20,000 lb./sq.in.
Sh1= 20,000 lb./sq.in.   Sh2= 20,000 lb./sq.in.   Sh3= 20,000 lb./sq.in.
Sh4= 20,000 lb./sq.in.   Sh5= 20,000 lb./sq.in.   Sh6= 20,000 lb./sq.in.
Sh7= 20,000 lb./sq.in.   Sh8= 20,000 lb./sq.in.   Sh9= 20,000 lb./sq.in.
Sy= 35,000 lb./sq.in.
    2010                               2020
```

```
B31.3 (2016)           Cycle Max Switch = ---   Sc= 22,000 lb./sq.in.
Sh1= 22,000 lb./sq.in.   Sh2= 22,000 lb./sq.in.   Sh3= 22,000 lb./sq.in.
Sh4= 22,000 lb./sq.in.   Sh5= 22,000 lb./sq.in.   Sh6= 22,000 lb./sq.in.
Sh7= 22,000 lb./sq.in.   Sh8= 22,000 lb./sq.in.   Sh9= 22,000 lb./sq.in.
Sy= 52,000 lb./sq.in.
    2160                               2180
```

```
B31.3 (2016)           Cycle Max Switch = ---   Sc= 20,000 lb./sq.in.
Sh1= 20,000 lb./sq.in.   Sh2= 20,000 lb./sq.in.   Sh3= 20,000 lb./sq.in.
Sh4= 20,000 lb./sq.in.   Sh5= 20,000 lb./sq.in.   Sh6= 20,000 lb./sq.in.
Sh7= 20,000 lb./sq.in.   Sh8= 20,000 lb./sq.in.   Sh9= 20,000 lb./sq.in.
Sy= 35,000 lb./sq.in.
    4010                               4020
```

```
B31.3 (2016)           Cycle Max Switch = ---   Sc= 22,000 lb./sq.in.
Sh1= 22,000 lb./sq.in.   Sh2= 22,000 lb./sq.in.   Sh3= 22,000 lb./sq.in.
Sh4= 22,000 lb./sq.in.   Sh5= 22,000 lb./sq.in.   Sh6= 22,000 lb./sq.in.
Sh7= 22,000 lb./sq.in.   Sh8= 22,000 lb./sq.in.   Sh9= 22,000 lb./sq.in.
Sy= 52,000 lb./sq.in.
    4160                               4180
```

```
B31.3 (2016)           Cycle Max Switch = ---   Sc= 20,000 lb./sq.in.
Sh1= 20,000 lb./sq.in.   Sh2= 20,000 lb./sq.in.   Sh3= 20,000 lb./sq.in.
Sh4= 20,000 lb./sq.in.   Sh5= 20,000 lb./sq.in.   Sh6= 20,000 lb./sq.in.
Sh7= 20,000 lb./sq.in.   Sh8= 20,000 lb./sq.in.   Sh9= 20,000 lb./sq.in.
Sy= 35,000 lb./sq.in.
    6010                               6020
```

```
B31.3 (2016)           Cycle Max Switch = ---   Sc= 22,000 lb./sq.in.
Sh1= 22,000 lb./sq.in.   Sh2= 22,000 lb./sq.in.   Sh3= 22,000 lb./sq.in.
Sh4= 22,000 lb./sq.in.   Sh5= 22,000 lb./sq.in.   Sh6= 22,000 lb./sq.in.
Sh7= 22,000 lb./sq.in.   Sh8= 22,000 lb./sq.in.   Sh9= 22,000 lb./sq.in.
Sy= 52,000 lb./sq.in.
    6160                               6180
```

```
B31.3 (2016)           Cycle Max Switch = ---   Sc= 20,000 lb./sq.in.
```


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INPUT LISTING

```

Sh1= 20,000 lb./sq.in.   Sh2= 20,000 lb./sq.in.   Sh3= 20,000 lb./sq.in.
Sh4= 20,000 lb./sq.in.   Sh5= 20,000 lb./sq.in.   Sh6= 20,000 lb./sq.in.
Sh7= 20,000 lb./sq.in.   Sh8= 20,000 lb./sq.in.   Sh9= 20,000 lb./sq.in.
Sy= 35,000 lb./sq.in.
  8010                               8020

```

```

B31.3 (2016)           Cycle Max Switch = ---   Sc= 22,000 lb./sq.in.
Sh1= 22,000 lb./sq.in. Sh2= 22,000 lb./sq.in.   Sh3= 22,000 lb./sq.in.
Sh4= 22,000 lb./sq.in. Sh5= 22,000 lb./sq.in.   Sh6= 22,000 lb./sq.in.
Sh7= 22,000 lb./sq.in. Sh8= 22,000 lb./sq.in.   Sh9= 22,000 lb./sq.in.
Sy= 52,000 lb./sq.in.
  8160                               8180

```

```

B31.3 (2016)           Cycle Max Switch = ---   Sc= 20,000 lb./sq.in.
Sh1= 20,000 lb./sq.in. Sh2= 20,000 lb./sq.in.   Sh3= 20,000 lb./sq.in.
Sh4= 20,000 lb./sq.in. Sh5= 20,000 lb./sq.in.   Sh6= 20,000 lb./sq.in.
Sh7= 20,000 lb./sq.in. Sh8= 20,000 lb./sq.in.   Sh9= 20,000 lb./sq.in.
Sy= 35,000 lb./sq.in.
 10010                               10020

```

```

B31.3 (2016)           Cycle Max Switch = ---   Sc= 22,000 lb./sq.in.
Sh1= 22,000 lb./sq.in. Sh2= 22,000 lb./sq.in.   Sh3= 22,000 lb./sq.in.
Sh4= 22,000 lb./sq.in. Sh5= 22,000 lb./sq.in.   Sh6= 22,000 lb./sq.in.
Sh7= 22,000 lb./sq.in. Sh8= 22,000 lb./sq.in.   Sh9= 22,000 lb./sq.in.
Sy= 52,000 lb./sq.in.
 10160                               10180

```

```

B31.3 (2016)           Cycle Max Switch = ---   Sc= 20,000 lb./sq.in.
Sh1= 20,000 lb./sq.in. Sh2= 20,000 lb./sq.in.   Sh3= 20,000 lb./sq.in.
Sh4= 20,000 lb./sq.in. Sh5= 20,000 lb./sq.in.   Sh6= 20,000 lb./sq.in.
Sh7= 20,000 lb./sq.in. Sh8= 20,000 lb./sq.in.   Sh9= 20,000 lb./sq.in.
Sy= 35,000 lb./sq.in.

```

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BEND ELEMENTS

1000 1020

```

Radius= 9.000 in. (LONG) Bend Angle= 90.000 Angle/Node @1= 45.00 1019
Angle/Node @2= .00 1018
 1040                               1080

```

```

Radius= 6.000 in. (LONG) Bend Angle= 45.000 Angle/Node @1= 22.50 1079
Angle/Node @2= .00 1078
 1120                               1140

```

```

Radius= 6.000 in. (LONG) Bend Angle= 90.000 Angle/Node @1= 45.00 1139
 1140                               1160

```

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INPUT LISTING

Radius= 6.000 in. (LONG) Angle/Node @2= .00 1158 3000	Bend Angle= 90.000 3020	Angle/Node @1= 45.00 1159
Radius= 9.000 in. (LONG) Angle/Node @2= .00 3018 3040	Bend Angle= 90.000 3080	Angle/Node @1= 45.00 3019
Radius= 6.000 in. (LONG) Angle/Node @2= .00 3078 3120	Bend Angle= 45.000 3140	Angle/Node @1= 22.50 3079
Radius= 6.000 in. (LONG) 3140	Bend Angle= 90.000 3160	Angle/Node @1= 45.00 3139
Radius= 6.000 in. (LONG) Angle/Node @2= .00 3158 5000	Bend Angle= 90.000 5020	Angle/Node @1= 45.00 3159
Radius= 9.000 in. (LONG) Angle/Node @2= .00 5018 5040	Bend Angle= 90.000 5080	Angle/Node @1= 45.00 5019
Radius= 6.000 in. (LONG) Angle/Node @2= .00 5078 5120	Bend Angle= 45.000 5140	Angle/Node @1= 22.50 5079
Radius= 6.000 in. (LONG) 5140	Bend Angle= 90.000 5160	Angle/Node @1= 45.00 5139
Radius= 6.000 in. (LONG) Angle/Node @2= .00 5158 7000	Bend Angle= 90.000 7020	Angle/Node @1= 45.00 5159
Radius= 9.000 in. (LONG) Angle/Node @2= .00 7018 7040	Bend Angle= 90.000 7080	Angle/Node @1= 45.00 7019
Radius= 6.000 in. (LONG) Angle/Node @2= .00 7078 7120	Bend Angle= 45.000 7140	Angle/Node @1= 22.50 7079
Radius= 6.000 in. (LONG)	Bend Angle= 90.000	Angle/Node @1= 45.00 7139

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INPUT LISTING

7140			7160
Radius= 6.000 in. (LONG)	Bend Angle= 90.000	Angle/Node @1= 45.00	7159
Angle/Node @2= .00			
9000			9020
Radius= 9.000 in. (LONG)	Bend Angle= 90.000	Angle/Node @1= 45.00	9019
Angle/Node @2= .00			
9040			9080
Radius= 6.000 in. (LONG)	Bend Angle= 45.000	Angle/Node @1= 22.50	9079
Angle/Node @2= .00			
9120			9140
Radius= 6.000 in. (LONG)	Bend Angle= 90.000	Angle/Node @1= 45.00	9139
9140			9160
Radius= 6.000 in. (LONG)	Bend Angle= 90.000	Angle/Node @1= 45.00	9159
Angle/Node @2= .00			
11000			11020
Radius= 9.000 in. (LONG)	Bend Angle= 90.000	Angle/Node @1= 45.00	11019
Angle/Node @2= .00			
11040			11080
Radius= 6.000 in. (LONG)	Bend Angle= 45.000	Angle/Node @1= 22.50	11079
Angle/Node @2= .00			
11120			11140
Radius= 6.000 in. (LONG)	Bend Angle= 90.000	Angle/Node @1= 45.00	11139
11140			11160
Radius= 6.000 in. (LONG)	Bend Angle= 90.000	Angle/Node @1= 45.00	11159
Angle/Node @2= .00			
11060			14000
Radius= 15.000 in. (LONG)	Bend Angle= 90.000	Angle/Node @1= 45.00	13999
Angle/Node @2= .00			
13998			

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RIGIDS

10	20
----	----

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INPUT LISTING

Weight= 165.00 lb.Type=Flange 60	80
Weight= 1,045.00 lb.Type=Flange Valve 140	160
Weight= 1,027.78 lb.Type=Flange Valve 200	220
Weight= 74.00 lb.Type=Flange 220	240
Weight= 74.00 lb.Type=Flange 380	400
Weight= 74.00 lb.Type=Flange 400	420
Weight= 74.00 lb.Type=Flange 500	520
Weight= 110.00 lb.Type=Flange Valve 580	600
Weight= 341.00 lb.Type=Flange Valve 760	780
Weight= 386.00 lb.Type=Flange Valve 860	880
Weight= 386.00 lb.Type=Flange Valve 900	920
Weight= 337.23 lb.Type=Unspecified 920	940
Weight= 337.23 lb.Type=Unspecified 980	1000
Weight= 225.00 lb.Type=Flange Valve 1100	1120

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INPUT LISTING

Weight= 386.00 lb.Type=Flange Valve 1200	1220
Weight= 386.00 lb.Type=Flange Valve 1260	1280
Weight= 386.00 lb.Type=Flange Valve 12840	12860
Weight= 82.00 lb.Type=Flange 2010	2020
Weight= 165.00 lb.Type=Flange 2060	2080
Weight= 1,045.00 lb.Type=Flange Valve 2140	2160
Weight= 1,027.78 lb.Type=Flange Valve 2200	2220
Weight= 74.00 lb.Type=Flange 2220	2240
Weight= 74.00 lb.Type=Flange 2380	2400
Weight= 74.00 lb.Type=Flange 2400	2420
Weight= 74.00 lb.Type=Flange 2500	2520
Weight= 110.00 lb.Type=Flange Valve 2580	2600
Weight= 341.00 lb.Type=Flange Valve 2760	2780
Weight= 386.00 lb.Type=Flange Valve 2860	2880

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INPUT LISTING

Weight= 386.00 lb.Type=Flange Valve 2900	2920
Weight= 337.23 lb.Type=Unspecified 2920	2940
Weight= 337.23 lb.Type=Unspecified 2980	3000
Weight= 225.00 lb.Type=Flange Valve 3100	3120
Weight= 386.00 lb.Type=Flange Valve 3200	3220
Weight= 386.00 lb.Type=Flange Valve 3260	3280
Weight= 386.00 lb.Type=Flange Valve 4010	4020
Weight= 165.00 lb.Type=Flange 4060	4080
Weight= 1,045.00 lb.Type=Flange Valve 4140	4160
Weight= 1,027.78 lb.Type=Flange Valve 4200	4220
Weight= 74.00 lb.Type=Flange 4220	4240
Weight= 74.00 lb.Type=Flange 4380	4400
Weight= 74.00 lb.Type=Flange 4400	4420
Weight= 74.00 lb.Type=Flange 4500	4520

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INPUT LISTING

Weight= 110.00 lb.Type=Flange Valve 4580	4600
Weight= 341.00 lb.Type=Flange Valve 4760	4780
Weight= 386.00 lb.Type=Flange Valve 4860	4880
Weight= 386.00 lb.Type=Flange Valve 4900	4920
Weight= 337.23 lb.Type=Unspecified 4920	4940
Weight= 337.23 lb.Type=Unspecified 4980	5000
Weight= 225.00 lb.Type=Flange Valve 5100	5120
Weight= 386.00 lb.Type=Flange Valve 5200	5220
Weight= 386.00 lb.Type=Flange Valve 5260	5280
Weight= 386.00 lb.Type=Flange Valve 6010	6020
Weight= 165.00 lb.Type=Flange 6060	6080
Weight= 1,045.00 lb.Type=Flange Valve 6140	6160
Weight= 1,027.78 lb.Type=Flange Valve 6200	6220
Weight= 74.00 lb.Type=Flange 6220	6240

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INPUT LISTING

Weight= 74.00 lb.Type=Flange 6380	6400
Weight= 74.00 lb.Type=Flange 6400	6420
Weight= 74.00 lb.Type=Flange 6500	6520
Weight= 110.00 lb.Type=Flange Valve 6580	6600
Weight= 341.00 lb.Type=Flange Valve 6760	6780
Weight= 386.00 lb.Type=Flange Valve 6860	6880
Weight= 386.00 lb.Type=Flange Valve 6900	6920
Weight= 337.23 lb.Type=Unspecified 6920	6940
Weight= 337.23 lb.Type=Unspecified 6980	7000
Weight= 225.00 lb.Type=Flange Valve 7100	7120
Weight= 386.00 lb.Type=Flange Valve 7200	7220
Weight= 386.00 lb.Type=Flange Valve 7260	7280
Weight= 386.00 lb.Type=Flange Valve 8010	8020
Weight= 165.00 lb.Type=Flange 8060	8080

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INPUT LISTING

Weight= 1,045.00 lb.Type=Flange Valve 8140	8160
Weight= 1,027.78 lb.Type=Flange Valve 8200	8220
Weight= 74.00 lb.Type=Flange 8220	8240
Weight= 74.00 lb.Type=Flange 8380	8400
Weight= 74.00 lb.Type=Flange 8400	8420
Weight= 74.00 lb.Type=Flange 8500	8520
Weight= 110.00 lb.Type=Flange Valve 8580	8600
Weight= 341.00 lb.Type=Flange Valve 8760	8780
Weight= 386.00 lb.Type=Flange Valve 8860	8880
Weight= 386.00 lb.Type=Flange Valve 8900	8920
Weight= 337.23 lb.Type=Unspecified 8920	8940
Weight= 337.23 lb.Type=Unspecified 8980	9000
Weight= 225.00 lb.Type=Flange Valve 9100	9120
Weight= 386.00 lb.Type=Flange Valve 9200	9220

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INPUT LISTING

Weight= 386.00 lb.Type=Flange Valve 9260	9280
Weight= 386.00 lb.Type=Flange Valve 10010	10020
Weight= 165.00 lb.Type=Flange 10060	10080
Weight= 1,045.00 lb.Type=Flange Valve 10140	10160
Weight= 1,027.78 lb.Type=Flange Valve 10200	10220
Weight= 74.00 lb.Type=Flange 10220	10240
Weight= 74.00 lb.Type=Flange 10380	10400
Weight= 74.00 lb.Type=Flange 10400	10420
Weight= 74.00 lb.Type=Flange 10500	10520
Weight= 110.00 lb.Type=Flange Valve 10580	10600
Weight= 341.00 lb.Type=Flange Valve 10760	10780
Weight= 386.00 lb.Type=Flange Valve 10860	10880
Weight= 386.00 lb.Type=Flange Valve 10900	10920
Weight= 337.23 lb.Type=Unspecified 10920	10940

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INPUT LISTING

Weight= 337.23 lb.Type=Unspecified 10980	11000
Weight= 225.00 lb.Type=Flange Valve 11100	11120
Weight= 386.00 lb.Type=Flange Valve 11200	11220
Weight= 386.00 lb.Type=Flange Valve 11260	11280
Weight= 386.00 lb.Type=Flange Valve 14300	14320
Weight= 227.00 lb.Type=Flange 14400	14420
Weight= 227.00 lb.Type=Flange CAESAR II 2019 Ver.11.00.00.4800, (Build 190424) OCT 12,2022 16:11:24	

SIF'S & TEE'S

320	340
Node 340 Welding Tee 620	640
Node 640 Welding Tee 640	680
Node 680 Welding Tee 800	820
Node 820 Welding Tee 350	1180
Node 1180 Welding Tee 1020	1040
Node 1040 Welding Tee 1040	1060

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INPUT LISTING

Node 1060	Welding Tee	
1220		1240
Node 1240	Weldolet	
1280		1300
Node 1300	Weldolet	
820		2820
Node 2820	Welding Tee	
2820		4820
Node 4820	Welding Tee	
4820		6820
Node 6820	Welding Tee	
6820		8820
Node 8820	Welding Tee	
8820		12820
Node 12820	Welding Tee	
2320		2340
Node 2340	Welding Tee	
2620		2640
Node 2640	Welding Tee	
2640		2680
Node 2680	Welding Tee	
2800		2820
Node 2820	Welding Tee	
2350		3180
Node 3180	Welding Tee	
3020		3040
Node 3040	Welding Tee	
3040		3060

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INPUT LISTING

Node 3060	Welding Tee	
3220		3240
Node 3240	Weldolet	
3280		3300
Node 3300	Weldolet	
4320		4340
Node 4340	Welding Tee	
4620		4640
Node 4640	Welding Tee	
4640		4680
Node 4680	Welding Tee	
4800		4820
Node 4820	Welding Tee	
4350		5180
Node 5180	Welding Tee	
5020		5040
Node 5040	Welding Tee	
5040		5060
Node 5060	Welding Tee	
5220		5240
Node 5240	Weldolet	
5280		5300
Node 5300	Weldolet	
6320		6340
Node 6340	Welding Tee	
6620		6640
Node 6640	Welding Tee	
6640		6680

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INPUT LISTING

Node 6680	Welding Tee	6820
6800		
Node 6820	Welding Tee	7180
6350		
Node 7180	Welding Tee	7040
7020		
Node 7040	Welding Tee	7060
7040		
Node 7060	Welding Tee	7240
7220		
Node 7240	Weldolet	7300
7280		
Node 7300	Weldolet	8340
8320		
Node 8340	Welding Tee	8640
8620		
Node 8640	Welding Tee	8680
8640		
Node 8680	Welding Tee	8820
8800		
Node 8820	Welding Tee	9180
8350		
Node 9180	Welding Tee	9040
9020		
Node 9040	Welding Tee	9060
9040		
Node 9060	Welding Tee	9240
9220		

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INPUT LISTING

Node 9240	Weldolet	
9280		9300
Node 9300	Weldolet	
10320		10340
Node 10340	Welding Tee	
10620		10640
Node 10640	Welding Tee	
10640		10680
Node 10680	Welding Tee	
10800		12820
Node 12820	Welding Tee	
10350		11180
Node 11180	Welding Tee	
11020		11040
Node 11040	Welding Tee	
11040		11060
Node 11060	Welding Tee	
11220		11240
Node 11240	Weldolet	
11280		11300
Node 11300	Weldolet	
14000		14020
Node 14020	Welding Tee	
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REDUCERS

80		100
Diam2= 4.500 in.	Wall2= .237 in.	
460		480

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INPUT LISTING

Diam2= 2.375 in. 540	Wall2= .344 in.	560
Diam2= 4.500 in. 2080	Wall2= .237 in.	2100
Diam2= 4.500 in. 2460	Wall2= .237 in.	2480
Diam2= 2.375 in. 2540	Wall2= .344 in.	2560
Diam2= 4.500 in. 4080	Wall2= .237 in.	4100
Diam2= 4.500 in. 4460	Wall2= .237 in.	4480
Diam2= 2.375 in. 4540	Wall2= .344 in.	4560
Diam2= 4.500 in. 6080	Wall2= .237 in.	6100
Diam2= 4.500 in. 6460	Wall2= .237 in.	6480
Diam2= 2.375 in. 6540	Wall2= .344 in.	6560
Diam2= 4.500 in. 8080	Wall2= .237 in.	8100
Diam2= 4.500 in. 8460	Wall2= .237 in.	8480
Diam2= 2.375 in. 8540	Wall2= .344 in.	8560
Diam2= 4.500 in. 10080	Wall2= .237 in.	10100

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INPUT LISTING

Diam2= 4.500 in. Wall2= .237 in.
 10460 10480

Diam2= 2.375 in. Wall2= .344 in.
 10540 10560

Diam2= 4.500 in. Wall2= .237 in.
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RESTRAINTS

20 40

RESTRAINTS

Node 40 Type +Y MU/YIELD/FORCE = .30
 Dir Vec= .000 1.000 .000
 Node 40 Type Z MU/YIELD/FORCE = .30
 Dir Vec= .000 .000 1.000
 Node 40 Type X MU/YIELD/FORCE = .30
 Dir Vec= 1.000 .000 .000
 100 120

RESTRAINTS

Node 120 Type +Y MU/YIELD/FORCE = .30
 Dir Vec= .000 1.000 .000
 160 180

RESTRAINTS

Node 180 Type +Y MU/YIELD/FORCE = .30
 Dir Vec= .000 1.000 .000
 Node 180 Type X Len/GAP/STIF2 = .12 in.
 Dir Vec= 1.000 .000 .000
 240 260

RESTRAINTS

Node 260 Type +Y MU/YIELD/FORCE = .30
 Dir Vec= .000 1.000 .000
 260 280

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INPUT LISTING

RESTRAINTS

Node	280	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
Node	280	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000		.000	
	280			300	

RESTRAINTS

Node	300	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
	300			320	

RESTRAINTS

Node	320	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
Node	320	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000		.000	
	340			360	

RESTRAINTS

Node	360	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
	420			440	

RESTRAINTS

Node	440	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
Node	440	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000		.000	
	600			620	

RESTRAINTS

Node	620	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
	680			720	

RESTRAINTS

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INPUT LISTING

Node	720	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	720	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000	.000		
720				740	

RESTRAINTS

Node	740	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	740	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000	.000		
780				800	

RESTRAINTS

Node	800	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
940				960	

RESTRAINTS

Node	960	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	960	Type	X	MU/YIELD/FORCE =	.30
Dir Vec=	1.000	.000	.000		
Node	960	Type	Z	MU/YIELD/FORCE =	.30
Dir Vec=	.000	.000	1.000		
2020				2040	

RESTRAINTS

Node	2040	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	2040	Type	Z	MU/YIELD/FORCE =	.30
Dir Vec=	.000	.000	1.000		
Node	2040	Type	X	MU/YIELD/FORCE =	.30
Dir Vec=	1.000	.000	.000		
2100				2120	

RESTRAINTS

Node	2120	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
2160				2180	

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INPUT LISTING

RESTRAINTS

Node	2180	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
Node	2180	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000		.000	
	2240				2260

RESTRAINTS

Node	2260	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
	2260				2280

RESTRAINTS

Node	2280	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
Node	2280	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000		.000	
	2280				2300

RESTRAINTS

Node	2300	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
	2300				2320

RESTRAINTS

Node	2320	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
Node	2320	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000		.000	
	2340				2360

RESTRAINTS

Node	2360	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
	2420				2440

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INPUT LISTING

RESTRAINTS

Node	2440	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	2440	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000	.000		
2600				2620	

RESTRAINTS

Node	2620	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
2680				2720	

RESTRAINTS

Node	2720	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	2720	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000	.000		
2720				2740	

RESTRAINTS

Node	2740	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	2740	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000	.000		
2780				2800	

RESTRAINTS

Node	2800	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
2940				2960	

RESTRAINTS

Node	2960	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	2960	Type	X	MU/YIELD/FORCE =	.30
Dir Vec=	1.000	.000	.000		
Node	2960	Type	Z	MU/YIELD/FORCE =	.30
Dir Vec=	.000	.000	1.000		
4020				4040	

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INPUT LISTING

RESTRAINTS

Node	4040	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	4040	Type	Z	MU/YIELD/FORCE =	.30
Dir Vec=	.000	.000	1.000		
Node	4040	Type	X	MU/YIELD/FORCE =	.30
Dir Vec=	1.000	.000	.000		
4100				4120	

RESTRAINTS

Node	4120	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
4160				4180	

RESTRAINTS

Node	4180	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	4180	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000	.000		
4240				4260	

RESTRAINTS

Node	4260	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
4260				4280	

RESTRAINTS

Node	4280	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	4280	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000	.000		
4280				4300	

RESTRAINTS

Node	4300	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
4300				4320	

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INPUT LISTING

RESTRAINTS

Node	4320	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
Node	4320	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000		.000	
	4340				4360

RESTRAINTS

Node	4360	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
	4420				4440

RESTRAINTS

Node	4440	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
Node	4440	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000		.000	
	4600				4620

RESTRAINTS

Node	4620	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
	4680				4720

RESTRAINTS

Node	4720	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
Node	4720	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000		.000	
	4720				4740

RESTRAINTS

Node	4740	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
Node	4740	Type	X	Len/GAP/STIF2 =	.12 in.
MU/YIELD/FORCE =		.30		Dir Vec=	1.000 .000 .000
	4780				4800

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INPUT LISTING

RESTRAINTS

Node	4800	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
	4940			4960	

RESTRAINTS

Node	4960	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
Node	4960	Type	X	MU/YIELD/FORCE =	.30
Dir Vec=	1.000		.000	.000	
Node	4960	Type	Z	MU/YIELD/FORCE =	.30
Dir Vec=	.000		.000	1.000	
	6020			6040	

RESTRAINTS

Node	6040	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
Node	6040	Type	Z	MU/YIELD/FORCE =	.30
Dir Vec=	.000		.000	1.000	
Node	6040	Type	X	MU/YIELD/FORCE =	.30
Dir Vec=	1.000		.000	.000	
	6100			6120	

RESTRAINTS

Node	6120	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
	6160			6180	

RESTRAINTS

Node	6180	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
Node	6180	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000		.000	.000	
	6240			6260	

RESTRAINTS

Node	6260	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	

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INPUT LISTING

6260 6280

RESTRAINTS

Node	6280	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
Node	6280	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000		.000	

6280 6300

RESTRAINTS

Node	6300	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	

6300 6320

RESTRAINTS

Node	6320	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
Node	6320	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000		.000	

6340 6360

RESTRAINTS

Node	6360	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	

6420 6440

RESTRAINTS

Node	6440	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	
Node	6440	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000		.000	

6600 6620

RESTRAINTS

Node	6620	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000		.000	

6680 6720

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INPUT LISTING

RESTRAINTS

Node	6720	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
Node	6720	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000		.000	.000	
	6720			6740	

RESTRAINTS

Node	6740	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
Node	6740	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000		.000	.000	
	6780			6800	

RESTRAINTS

Node	6800	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
	6940			6960	

RESTRAINTS

Node	6960	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
Node	6960	Type	X	MU/YIELD/FORCE =	.30
Dir Vec=	1.000		.000	.000	
Node	6960	Type	Z	MU/YIELD/FORCE =	.30
Dir Vec=	.000		.000	1.000	
	8020			8040	

RESTRAINTS

Node	8040	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
Node	8040	Type	Z	MU/YIELD/FORCE =	.30
Dir Vec=	.000		.000	1.000	
Node	8040	Type	X	MU/YIELD/FORCE =	.30
Dir Vec=	1.000		.000	.000	
	8100			8120	

RESTRAINTS

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INPUT LISTING

Node	8120	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
	8160			8180	

RESTRAINTS

Node	8180	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	8180	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000	.000		
	8240			8260	

RESTRAINTS

Node	8260	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
	8260			8280	

RESTRAINTS

Node	8280	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	8280	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000	.000		
	8280			8300	

RESTRAINTS

Node	8300	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
	8300			8320	

RESTRAINTS

Node	8320	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	8320	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000	.000		
	8340			8360	

RESTRAINTS

Node	8360	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		

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INPUT LISTING

8420 8440

RESTRAINTS

Node	8440	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
Node	8440	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000		.000	.000	

8600 8620

RESTRAINTS

Node	8620	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	

8680 8720

RESTRAINTS

Node	8720	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
Node	8720	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000		.000	.000	

8720 8740

RESTRAINTS

Node	8740	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
Node	8740	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000		.000	.000	

8780 8800

RESTRAINTS

Node	8800	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	

8940 8960

RESTRAINTS

Node	8960	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
Node	8960	Type	X	MU/YIELD/FORCE =	.30
Dir Vec=	1.000		.000	.000	

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INPUT LISTING

Node	8960	Type	Z	MU/YIELD/FORCE =	.30
Dir Vec=	.000	.000	1.000		
	10020				10040

RESTRAINTS

Node	10040	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	10040	Type	Z	MU/YIELD/FORCE =	.30
Dir Vec=	.000	.000	1.000		
Node	10040	Type	X	MU/YIELD/FORCE =	.30
Dir Vec=	1.000	.000	.000		
	10100				10120

RESTRAINTS

Node	10120	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
	10160				10180

RESTRAINTS

Node	10180	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	10180	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000	.000		
	10240				10260

RESTRAINTS

Node	10260	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
	10260				10280

RESTRAINTS

Node	10280	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	10280	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000	.000		
	10280				10300

RESTRAINTS

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INPUT LISTING

Node	10300	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
10300				10320	

RESTRAINTS

Node	10320	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	10320	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000	.000		
10340				10360	

RESTRAINTS

Node	10360	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
10420				10440	

RESTRAINTS

Node	10440	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	10440	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000	.000		
10600				10620	

RESTRAINTS

Node	10620	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
10680				10720	

RESTRAINTS

Node	10720	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		
Node	10720	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000	.000	.000		
10720				10740	

RESTRAINTS

Node	10740	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000	1.000	.000		

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INPUT LISTING

Node	10740	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000		.000	.000	

10780 10800

RESTRAINTS

Node	10800	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	

10940 10960

RESTRAINTS

Node	10960	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
Node	10960	Type	X	MU/YIELD/FORCE =	.30
Dir Vec=	1.000		.000	.000	
Node	10960	Type	Z	MU/YIELD/FORCE =	.30
Dir Vec=	.000		.000	1.000	

14020 14040

RESTRAINTS

Node	14040	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	

14040 14060

RESTRAINTS

Node	14060	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
Node	14060	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000		.000	.000	

14060 14080

RESTRAINTS

Node	14080	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	

14080 14100

RESTRAINTS

Node	14100	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	

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INPUT LISTING

Node	14100	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000		.000	.000	

14100 14120

RESTRAINTS

Node	14120	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	

14120 14140

RESTRAINTS

Node	14140	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
Node	14140	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000		.000	.000	

14140 14160

RESTRAINTS

Node	14160	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
Node	14160	Type	Z	MU/YIELD/FORCE =	.30
Dir Vec=	.000		.000	1.000	

14160 14180

RESTRAINTS

Node	14180	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
Node	14180	Type	X	Dir Vec=	1.000 .000 .000

14020 14220

RESTRAINTS

Node	14220	Type	+Y	MU/YIELD/FORCE =	.30
Dir Vec=	.000		1.000	.000	
Node	14220	Type	X	Len/GAP/STIF2 =	.12 in.
Dir Vec=	1.000		.000	.000	

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FORCES AND MOMENTS

900

920

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INPUT LISTING

Node 920 FY1= 134.89 lb. FZ1= -202.34 lb.
 2900 2920

Node 2920 FY1= 134.89 lb. FZ1= -202.34 lb.
 4900 4920

Node 4920 FY1= 134.89 lb. FZ1= -202.34 lb.
 6900 6920

Node 6920 FY1= 134.89 lb. FZ1= -202.34 lb.
 8900 8920

Node 8920 FY1= 134.89 lb. FZ1= -202.34 lb.
 10900 10920

Node 10920 FY1= 134.89 lb. FZ1= -202.34 lb.
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UNIFORM LOAD Changes

10 20

Vector1 in F/L

X1 Dir = .26 lb./in. Y1 Dir = .00 lb./in. Z1 Dir = .00 lb./in.

Vector2 in F/L

X2 Dir = .00 lb./in. Y2 Dir = .00 lb./in. Z2 Dir = .26 lb./in.

Vector3 in G-s

X3 Dir = .00 g's Y3 Dir = .00 g's Z3 Dir = .00 g's

Vector4 in G-s

X4 Dir = .00 g's Y4 Dir = .00 g's Z4 Dir = .00 g's

Vector5 in F/L

X5 Dir = .00 lb./in. Y5 Dir = .00 lb./in. Z5 Dir = .00 lb./in.

Vector6 in F/L

X6 Dir = .00 lb./in. Y6 Dir = .00 lb./in. Z6 Dir = .00 lb./in.

Vector7 in F/L

X7 Dir = .00 lb./in. Y7 Dir = .00 lb./in. Z7 Dir = .00 lb./in.

Vector8 in F/L

X8 Dir = .00 lb./in. Y8 Dir = .00 lb./in. Z8 Dir = .00 lb./in.

Vector9 in F/L

X9 Dir = .00 lb./in. Y9 Dir = .00 lb./in. Z9 Dir = .00 lb./in.

2010 2020

Vector1 in F/L

X1 Dir = .26 lb./in. Y1 Dir = .00 lb./in. Z1 Dir = .00 lb./in.

Vector2 in F/L

X2 Dir = .00 lb./in. Y2 Dir = .00 lb./in. Z2 Dir = .26 lb./in.

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INPUT LISTING

Vector3 in G-s
 X3 Dir = .00 g's Y3 Dir = .00 g's Z3 Dir = .00 g's
 Vector4 in G-s
 X4 Dir = .00 g's Y4 Dir = .00 g's Z4 Dir = .00 g's
 Vector5 in F/L
 X5 Dir = .00 lb./in. Y5 Dir = .00 lb./in. Z5 Dir = .00 lb./in.
 Vector6 in F/L
 X6 Dir = .00 lb./in. Y6 Dir = .00 lb./in. Z6 Dir = .00 lb./in.
 Vector7 in F/L
 X7 Dir = .00 lb./in. Y7 Dir = .00 lb./in. Z7 Dir = .00 lb./in.
 Vector8 in F/L
 X8 Dir = .00 lb./in. Y8 Dir = .00 lb./in. Z8 Dir = .00 lb./in.
 Vector9 in F/L
 X9 Dir = .00 lb./in. Y9 Dir = .00 lb./in. Z9 Dir = .00 lb./in.
 4010 4020

Vector1 in F/L
 X1 Dir = .26 lb./in. Y1 Dir = .00 lb./in. Z1 Dir = .00 lb./in.
 Vector2 in F/L
 X2 Dir = .00 lb./in. Y2 Dir = .00 lb./in. Z2 Dir = .26 lb./in.
 Vector3 in G-s
 X3 Dir = .00 g's Y3 Dir = .00 g's Z3 Dir = .00 g's
 Vector4 in G-s
 X4 Dir = .00 g's Y4 Dir = .00 g's Z4 Dir = .00 g's
 Vector5 in F/L
 X5 Dir = .00 lb./in. Y5 Dir = .00 lb./in. Z5 Dir = .00 lb./in.
 Vector6 in F/L
 X6 Dir = .00 lb./in. Y6 Dir = .00 lb./in. Z6 Dir = .00 lb./in.
 Vector7 in F/L
 X7 Dir = .00 lb./in. Y7 Dir = .00 lb./in. Z7 Dir = .00 lb./in.
 Vector8 in F/L
 X8 Dir = .00 lb./in. Y8 Dir = .00 lb./in. Z8 Dir = .00 lb./in.
 Vector9 in F/L
 X9 Dir = .00 lb./in. Y9 Dir = .00 lb./in. Z9 Dir = .00 lb./in.
 6010 6020

Vector1 in F/L
 X1 Dir = .26 lb./in. Y1 Dir = .00 lb./in. Z1 Dir = .00 lb./in.
 Vector2 in F/L
 X2 Dir = .00 lb./in. Y2 Dir = .00 lb./in. Z2 Dir = .26 lb./in.
 Vector3 in G-s
 X3 Dir = .00 g's Y3 Dir = .00 g's Z3 Dir = .00 g's
 Vector4 in G-s
 X4 Dir = .00 g's Y4 Dir = .00 g's Z4 Dir = .00 g's
 Vector5 in F/L
 X5 Dir = .00 lb./in. Y5 Dir = .00 lb./in. Z5 Dir = .00 lb./in.
 Vector6 in F/L
 X6 Dir = .00 lb./in. Y6 Dir = .00 lb./in. Z6 Dir = .00 lb./in.
 Vector7 in F/L
 X7 Dir = .00 lb./in. Y7 Dir = .00 lb./in. Z7 Dir = .00 lb./in.
 Vector8 in F/L
 X8 Dir = .00 lb./in. Y8 Dir = .00 lb./in. Z8 Dir = .00 lb./in.
 Vector9 in F/L
 X9 Dir = .00 lb./in. Y9 Dir = .00 lb./in. Z9 Dir = .00 lb./in.

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INPUT LISTING

8010

8020

Vector1 in F/L
 X1 Dir = .26 lb./in. Y1 Dir = .00 lb./in. Z1 Dir = .00 lb./in.
 Vector2 in F/L
 X2 Dir = .00 lb./in. Y2 Dir = .00 lb./in. Z2 Dir = .26 lb./in.
 Vector3 in G-s
 X3 Dir = .00 g's Y3 Dir = .00 g's Z3 Dir = .00 g's
 Vector4 in G-s
 X4 Dir = .00 g's Y4 Dir = .00 g's Z4 Dir = .00 g's
 Vector5 in F/L
 X5 Dir = .00 lb./in. Y5 Dir = .00 lb./in. Z5 Dir = .00 lb./in.
 Vector6 in F/L
 X6 Dir = .00 lb./in. Y6 Dir = .00 lb./in. Z6 Dir = .00 lb./in.
 Vector7 in F/L
 X7 Dir = .00 lb./in. Y7 Dir = .00 lb./in. Z7 Dir = .00 lb./in.
 Vector8 in F/L
 X8 Dir = .00 lb./in. Y8 Dir = .00 lb./in. Z8 Dir = .00 lb./in.
 Vector9 in F/L
 X9 Dir = .00 lb./in. Y9 Dir = .00 lb./in. Z9 Dir = .00 lb./in.
 10010 10020

Vector1 in F/L
 X1 Dir = .26 lb./in. Y1 Dir = .00 lb./in. Z1 Dir = .00 lb./in.
 Vector2 in F/L
 X2 Dir = .00 lb./in. Y2 Dir = .00 lb./in. Z2 Dir = .26 lb./in.
 Vector3 in G-s
 X3 Dir = .00 g's Y3 Dir = .00 g's Z3 Dir = .00 g's
 Vector4 in G-s
 X4 Dir = .00 g's Y4 Dir = .00 g's Z4 Dir = .00 g's
 Vector5 in F/L
 X5 Dir = .00 lb./in. Y5 Dir = .00 lb./in. Z5 Dir = .00 lb./in.
 Vector6 in F/L
 X6 Dir = .00 lb./in. Y6 Dir = .00 lb./in. Z6 Dir = .00 lb./in.
 Vector7 in F/L
 X7 Dir = .00 lb./in. Y7 Dir = .00 lb./in. Z7 Dir = .00 lb./in.
 Vector8 in F/L
 X8 Dir = .00 lb./in. Y8 Dir = .00 lb./in. Z8 Dir = .00 lb./in.
 Vector9 in F/L
 X9 Dir = .00 lb./in. Y9 Dir = .00 lb./in. Z9 Dir = .00 lb./in.

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INPUT UNITS USED...

UNITS= ENGLISH NOM/SCH INPUT= ON

LENGTH	inches	x	1.000	=	in.
FORCE	pounds	x	1.000	=	lb.
MASS(dynamics)	pounds	x	1.000	=	lbm
MOMENTS(INPUT)	inch-pounds	x	1.000	=	in.lb.
MOMENTS(OUTPUT)	inch-pounds	x	0.083	=	ft.lb.
STRESS	lbs./sq.in.	x	1.000	=	lb./sq.in.
TEMP. SCALE	degrees F.	x	1.000	=	F
PRESSURE	psig	x	1.000	=	lb./sq.in.
ELASTIC MODULUS	lbs./sq.in.	x	1.000	=	lb./sq.in.

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INPUT LISTING

PIPE DENSITY	lbs./cu.in.	x	1.000	=	lb./cu.in.
INSULATION DENS.	lbs./cu.in.	x	1.000	=	lb./cu.in.
FLUID DENSITY	lbs./cu.in.	x	1.000	=	lb./cu.in.
TRANSL. STIF	lbs./in.	x	1.000	=	lb./in.
ROTATIONAL STIF	in.lb./deg.	x	1.000	=	in.lb./deg
UNIFORM LOAD	lb./in.	x	1.000	=	lb./in.
G LOAD	g's	x	1.000	=	g's
WIND LOAD	lbs./sq.in.	x	144.000	=	lb./sq.ft.
ELEVATION	inches	x	0.083	=	ft.
COMPOUND LENGTH	inches	x	0.083	=	ft.
DIAMETER	inches	x	1.000	=	in.
WALL THICKNESS	inches	x	1.000	=	in.

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SETUP FILE PARAMETERS

```

-----
CONNECT GEOMETRY THRU CNODES =      YES
MIN ALLOWED BEND ANGLE =              5.00000
MAX ALLOWED BEND ANGLE =              95.0000
BEND LENGTH ATTACHMENT PERCENT =      1.00000
MIN ANGLE TO ADJACENT BEND PT =       5.00000
LOOP CLOSURE TOLERANCE =              1.00000      in.
THERMAL BOWING HORZ TOLERANCE =       0.100000E-03
AUTO NODE NUMBER INCREMENT=          20.0000
Z AXIS UP=                            NO
USE PRESSURE STIFFENING =             DEFAULT
ALPHA TOLERANCE =                    0.500000E-01
RESLD-FORCE =                         NO
HGR DEF RESWGT STIF =                 0.100000E+13 lb./in.
DECOMP SNG TOL =                     0.100000E+11
BEND AXIAL SHAPE =                   YES
FRICT STIF =                         0.100000E+07 lb./in.
FRICT NORM FORCE VAR =                0.150000
FRICT ANGLE VAR =                    15.0000
FRICT SLIDE MULT =                   1.00000
ROD TOLERANCE =                      1.00000
ROD INC =                             2.00000
INCORE NUMERICAL CHECK =              NO
OUTCORE NUMERICAL CHECK =             NO
DEFAULT TRANS RESTRAINT STIFF=       0.100000E+13      lb./in.
DEFAULT ROT RESTRAINT STIFF=        0.100000E+13 in.lb./deg
IGNORE SPRING HANGER STIFFNESS =     NO
MISSING MASS ZPA =                   EXTRACTED
MIN WALL MILL TOLERANCE =            12.5000
WRC-107 VERSION =                    MAR 79 1B1/2B1
WRC-107 INTERPOLATION =              LAST VALUE
DEFAULT AMBIENT TEMPERATURE=         30.2000      F
BOURDON PRESSURE=                    NONE
COEFFICIENT OF FRICTION (MU) =       0.300000
INCLUDE SPRG STIF IN HGR OPE =       NO
INCLUDE INSULATION IN HYDROTEST =    NO
REDUCED INTERSECTION =               B31.1(POST1980)
USE WRC329                            NO
NO REDUCED SIF FOR RFT AND WLT       NO
B31.1 REDUCED Z FIX =                YES
CLASS 1 BRANCH FLEX                  NO

```

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INPUT LISTING

ALL STRESS CASES CORRODED =	NO
ADD TORSION IN SL STRESS =	DEFAULT
ADD F/A IN STRESS =	DEFAULT
OCCASIONAL LOAD FACTOR =	0.000000
DEFAULT CODE =	B31.3
B31.3 SUS CASE SIF FACTOR =	0.000000
ALLOW USERS BEND SIF =	YES
USE SCHNEIDER	NO
YIELD CRITERION STRESS =	MAX 3D SHEAR
USE PD/4T	NO
BASE HOOP STRESS ON ? =	ID
EN13480 USE IN OUTPLANE SIFS=	NO
LIBERAL EXPANSION ALLOWABLE=	YES
B31.3 SEC 319.2.3C SAXIAL=	Default
B31.3 WELDING/CONTOUR TEE ISB16.9	FALSE
PRESSURE VARIATION IN EXP CASE=	DEFAULT
IMPLEMENT B313 APP-P	NO
IMPLEMENT B313 CODE CASE 178	YES
IGNORE B31.1/B31.3 Wc FACTOR=	YES
USE FRP SIF =	YES
USE FRP FLEX =	YES
BS 7159 Pressure Stiffening=	Design Strain
FRP Property Data File=	CAESAR.FRP
FRP Emod (axial) =	0.320000E+07 lb./sq.in.
FRP Ratio Gmod/Emod (axial) =	0.250000
FRP Ea/Eh*Vh/a =	0.152730
FRP Laminate Type =	THREE
FRP Alpha =	12.0000 F
FRP Density =	0.600000E-01 lb./cu.in.
EXCLUDE f2 FROM UKOOA BENDING =	NO

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EXECUTION CONTROL PARAMETERS

Rigid/ExpJt Print Flag	1.000
Bourdon Option000
Loop Closure Flag	2.000
Thermal Bowing Delta Temp ..	.000 F
Liberal Allowable Flag	1.000
Uniform Load Option	1.000
Ambient Temperature	69.794 F
Plastic (FRP) Alpha	12.000
Plastic (FRP) GMOD/EMODa250
Plastic (FRP) Laminate Type.	3.000
Eqn Optimizer000
Node Selection000
Eqn Ordering000
Collins000
Degree Determination000
User Eqn Control000
North Direction	-X

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INPUT LISTING

COORDINATE REPORT

```

/------(in.)-----/
NODE      X          Y          Z
  10      -1.246      .000      .000
  20      -1.246      .000      7.125
  40      -1.246      .000     109.487
  60      -1.246      .000     263.031
  80      -1.246      .000     303.188
 100      -1.246     -1.063     308.700
 120      -1.246     -1.063     344.920
 140      -1.246     -1.063     468.936
 160      -1.246     -1.063     501.220
 180      -1.246     -1.063     562.243
 200      -1.246     -1.063     663.936
 220      -1.246     -1.063     669.186
 240      -1.246     -1.063     674.436
 260      -1.246     -1.063     800.224
 280      -1.246     -1.063    1036.444
 300      -1.246     -1.063    1272.664
 320      -1.246     -1.063    1508.885
 340      -1.246     -1.063    1661.719
 360      -1.246     -1.063    1751.011
 340      -1.246     -1.063    1661.719
 350      -1.246     18.622    1661.719
 360      -1.246     -1.063    1751.011
 380      -1.246     -1.063    1870.184
 400      -1.246     -1.063    1875.434
 420      -1.246     -1.063    1880.684
 440      -1.246     -1.063    2000.566
 460      -1.246     -1.063    2057.377
 480      -1.246     -2.126    2061.393
 500      -1.246     -2.126    2083.046
 520      -1.246     -2.126    2101.472
 540      -1.246     -2.126    2126.668
 560      -1.246     -1.063    2130.684
 580      -1.246     -1.063    2185.802
 600      -1.246     -1.063    2206.826
 620      -1.246     -1.063    2236.747
 640      -1.246     -1.063    2294.228
 660      -1.246     18.622    2294.228
 640      -1.246     -1.063    2294.228
 680      -1.246     -1.063    2452.495
 700      -1.246     18.622    2452.495
 680      -1.246     -1.063    2452.495
 720      -1.246     -1.063    2466.275
 740      -1.246     -1.063    2702.495
 760      -1.246     -1.063    2841.078
 780      -1.246     -1.063    2859.779
 800      -1.246     -1.063    2885.369
 820      -1.246     -1.063    2905.054
 350      -1.246     18.622    1661.719
1180      -1.246     30.157    1661.719
 860      -1.246     41.260    1661.719
 880      -1.246     67.126    1661.719
 900      -1.246    114.764    1661.719
 920      -1.246    126.220    1661.719

```

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INPUT LISTING

940	-1.246	126.220	1672.507
960	-1.246	126.220	1709.908
980	-1.246	126.220	1747.310
1000	-1.246	126.220	1765.145
1020	-1.246	126.220	1789.948
1040	-1.246	102.992	1789.948
1060	-1.246	81.732	1789.948
1040	-1.246	102.992	1789.948
1080	-13.136	102.992	1778.058
1100	-13.136	102.992	1705.460
1120	-13.136	102.992	1679.594
1140	-13.136	102.992	1673.609
1160	-13.136	30.157	1673.609
1160	-13.136	30.157	1673.609
1180	-1.246	30.157	1661.719
660	-1.246	18.622	2294.228
1200	-1.246	34.882	2294.228
1220	-1.246	60.669	2294.228
1240	-1.246	76.417	2294.228
700	-1.246	18.622	2452.495
1260	-1.246	34.882	2452.495
1280	-1.246	60.632	2452.495
1300	-1.246	76.380	2452.495
820	-1.246	-1.063	2905.054
1320	7.809	-1.063	2905.054
820	-1.246	-1.063	2905.054
2820	-26.837	-1.063	2905.054
4820	-52.427	-1.063	2905.054
6820	-78.018	-1.063	2905.054
8820	-103.609	-1.063	2905.054
12820	-129.199	-1.063	2905.054
12840	-148.884	-1.063	2905.054
12860	-153.884	-1.063	2905.054
2010	-26.837	.000	.000
2020	-26.837	.000	7.125
2040	-26.837	.000	109.487
2060	-26.837	.000	263.031
2080	-26.837	.000	303.188
2100	-26.837	-1.063	308.700
2120	-26.837	-1.063	344.920
2140	-26.837	-1.063	409.881
2160	-26.837	-1.063	442.164
2180	-26.837	-1.063	562.243
2200	-26.837	-1.063	663.936
2220	-26.837	-1.063	669.186
2240	-26.837	-1.063	674.436
2260	-26.837	-1.063	800.224
2280	-26.837	-1.063	1036.444
2300	-26.837	-1.063	1272.664
2320	-26.837	-1.063	1508.885
2340	-26.837	-1.063	1661.719
2360	-26.837	-1.063	1751.011
2340	-26.837	-1.063	1661.719
2350	-26.837	18.622	1661.719
2360	-26.837	-1.063	1751.011
2380	-26.837	-1.063	1870.184

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INPUT LISTING

2400	-26.837	-1.063	1875.434
2420	-26.837	-1.063	1880.684
2440	-26.837	-1.063	2000.566
2460	-26.837	-1.063	2057.377
2480	-26.837	-2.126	2061.393
2500	-26.837	-2.126	2083.046
2520	-26.837	-2.126	2101.472
2540	-26.837	-2.126	2126.668
2560	-26.837	-1.063	2130.684
2580	-26.837	-1.063	2185.802
2600	-26.837	-1.063	2206.826
2620	-26.837	-1.063	2236.747
2640	-26.837	-1.063	2294.228
2660	-26.837	18.622	2294.228
2640	-26.837	-1.063	2294.228
2680	-26.837	-1.063	2452.495
2700	-26.837	18.622	2452.495
2680	-26.837	-1.063	2452.495
2720	-26.837	-1.063	2466.275
2740	-26.837	-1.063	2702.495
2760	-26.837	-1.063	2841.078
2780	-26.837	-1.063	2859.779
2800	-26.837	-1.063	2885.369
2820	-26.837	-1.063	2905.054
2350	-26.837	18.622	1661.719
3180	-26.837	30.157	1661.719
2860	-26.837	41.260	1661.719
2880	-26.837	67.126	1661.719
2900	-26.837	114.764	1661.719
2920	-26.837	126.220	1661.719
2940	-26.837	126.220	1672.507
2960	-26.837	126.220	1709.908
2980	-26.837	126.220	1747.310
3000	-26.837	126.220	1765.145
3020	-26.837	126.220	1789.948
3040	-26.837	102.992	1789.948
3060	-26.837	81.732	1789.948
3040	-26.837	102.992	1789.948
3080	-38.727	102.992	1778.058
3100	-38.727	102.992	1705.460
3120	-38.727	102.992	1679.594
3140	-38.727	102.992	1673.609
3160	-38.727	30.157	1673.609
3160	-38.727	30.157	1673.609
3180	-26.837	30.157	1661.719
2660	-26.837	18.622	2294.228
3200	-26.837	34.882	2294.228
3220	-26.837	60.669	2294.228
3240	-26.837	76.417	2294.228
2700	-26.837	18.622	2452.495
3260	-26.837	34.882	2452.495
3280	-26.837	60.632	2452.495
3300	-26.837	76.380	2452.495
4010	-52.427	.000	.000
4020	-52.427	.000	7.125
4040	-52.427	.000	109.487

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INPUT LISTING

4060	-52.427	.000	263.031
4080	-52.427	.000	303.188
4100	-52.427	-1.063	308.700
4120	-52.427	-1.063	344.920
4140	-52.427	-1.063	468.936
4160	-52.427	-1.063	501.220
4180	-52.427	-1.063	562.243
4200	-52.427	-1.063	663.936
4220	-52.427	-1.063	669.186
4240	-52.427	-1.063	674.436
4260	-52.427	-1.063	800.224
4280	-52.427	-1.063	1036.444
4300	-52.427	-1.063	1272.664
4320	-52.427	-1.063	1508.885
4340	-52.427	-1.063	1661.719
4360	-52.427	-1.063	1751.011
4340	-52.427	-1.063	1661.719
4350	-52.427	18.622	1661.719
4360	-52.427	-1.063	1751.011
4380	-52.427	-1.063	1870.184
4400	-52.427	-1.063	1875.434
4420	-52.427	-1.063	1880.684
4440	-52.427	-1.063	2000.566
4460	-52.427	-1.063	2057.377
4480	-52.427	-2.126	2061.393
4500	-52.427	-2.126	2083.046
4520	-52.427	-2.126	2101.472
4540	-52.427	-2.126	2126.668
4560	-52.427	-1.063	2130.684
4580	-52.427	-1.063	2185.802
4600	-52.427	-1.063	2206.826
4620	-52.427	-1.063	2236.747
4640	-52.427	-1.063	2294.228
4660	-52.427	18.622	2294.228
4640	-52.427	-1.063	2294.228
4680	-52.427	-1.063	2452.495
4700	-52.427	18.622	2452.495
4680	-52.427	-1.063	2452.495
4720	-52.427	-1.063	2466.275
4740	-52.427	-1.063	2702.495
4760	-52.427	-1.063	2841.078
4780	-52.427	-1.063	2859.779
4800	-52.427	-1.063	2885.369
4820	-52.427	-1.063	2905.054
4350	-52.427	18.622	1661.719
5180	-52.427	30.157	1661.719
4860	-52.427	41.260	1661.719
4880	-52.427	67.126	1661.719
4900	-52.427	114.764	1661.719
4920	-52.427	126.220	1661.719
4940	-52.427	126.220	1672.507
4960	-52.427	126.220	1709.908
4980	-52.427	126.220	1747.310
5000	-52.427	126.220	1765.145
5020	-52.427	126.220	1789.948
5040	-52.427	102.992	1789.948

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INPUT LISTING

5060	-52.427	81.732	1789.948
5040	-52.427	102.992	1789.948
5080	-64.317	102.992	1778.058
5100	-64.317	102.992	1705.460
5120	-64.317	102.992	1679.594
5140	-64.317	102.992	1673.609
5160	-64.317	30.157	1673.609
5160	-64.317	30.157	1673.609
5180	-52.427	30.157	1661.719
4660	-52.427	18.622	2294.228
5200	-52.427	34.882	2294.228
5220	-52.427	60.669	2294.228
5240	-52.427	76.417	2294.228
4700	-52.427	18.622	2452.495
5260	-52.427	34.882	2452.495
5280	-52.427	60.632	2452.495
5300	-52.427	76.380	2452.495
6010	-78.018	.000	.000
6020	-78.018	.000	7.125
6040	-78.018	.000	109.487
6060	-78.018	.000	263.031
6080	-78.018	.000	303.188
6100	-78.018	-1.063	308.700
6120	-78.018	-1.063	344.920
6140	-78.018	-1.063	409.881
6160	-78.018	-1.063	442.164
6180	-78.018	-1.063	562.243
6200	-78.018	-1.063	663.936
6220	-78.018	-1.063	669.186
6240	-78.018	-1.063	674.436
6260	-78.018	-1.063	800.224
6280	-78.018	-1.063	1036.444
6300	-78.018	-1.063	1272.664
6320	-78.018	-1.063	1508.885
6340	-78.018	-1.063	1661.719
6360	-78.018	-1.063	1751.011
6340	-78.018	-1.063	1661.719
6350	-78.018	18.622	1661.719
6360	-78.018	-1.063	1751.011
6380	-78.018	-1.063	1870.184
6400	-78.018	-1.063	1875.434
6420	-78.018	-1.063	1880.684
6440	-78.018	-1.063	2000.566
6460	-78.018	-1.063	2057.377
6480	-78.018	-2.126	2061.393
6500	-78.018	-2.126	2083.046
6520	-78.018	-2.126	2101.472
6540	-78.018	-2.126	2126.668
6560	-78.018	-1.063	2130.684
6580	-78.018	-1.063	2185.802
6600	-78.018	-1.063	2206.826
6620	-78.018	-1.063	2236.747
6640	-78.018	-1.063	2294.228
6660	-78.018	18.622	2294.228
6640	-78.018	-1.063	2294.228
6680	-78.018	-1.063	2452.495

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INPUT LISTING

6700	-78.018	18.622	2452.495
6680	-78.018	-1.063	2452.495
6720	-78.018	-1.063	2466.275
6740	-78.018	-1.063	2702.495
6760	-78.018	-1.063	2841.078
6780	-78.018	-1.063	2859.779
6800	-78.018	-1.063	2885.369
6820	-78.018	-1.063	2905.054
6350	-78.018	18.622	1661.719
7180	-78.018	30.157	1661.719
6860	-78.018	41.260	1661.719
6880	-78.018	67.126	1661.719
6900	-78.018	114.764	1661.719
6920	-78.018	126.220	1661.719
6940	-78.018	126.220	1672.507
6960	-78.018	126.220	1709.908
6980	-78.018	126.220	1747.310
7000	-78.018	126.220	1765.145
7020	-78.018	126.220	1789.948
7040	-78.018	102.992	1789.948
7060	-78.018	81.732	1789.948
7040	-78.018	102.992	1789.948
7080	-89.908	102.992	1778.058
7100	-89.908	102.992	1705.460
7120	-89.908	102.992	1679.594
7140	-89.908	102.992	1673.609
7160	-89.908	30.157	1673.609
7160	-89.908	30.157	1673.609
7180	-78.018	30.157	1661.719
6660	-78.018	18.622	2294.228
7200	-78.018	34.882	2294.228
7220	-78.018	60.669	2294.228
7240	-78.018	76.417	2294.228
6700	-78.018	18.622	2452.495
7260	-78.018	34.882	2452.495
7280	-78.018	60.632	2452.495
7300	-78.018	76.380	2452.495
8010	-103.609	.000	.000
8020	-103.609	.000	7.125
8040	-103.609	.000	109.487
8060	-103.609	.000	263.031
8080	-103.609	.000	303.188
8100	-103.609	-1.063	308.700
8120	-103.609	-1.063	344.920
8140	-103.609	-1.063	468.936
8160	-103.609	-1.063	501.220
8180	-103.609	-1.063	562.243
8200	-103.609	-1.063	663.936
8220	-103.609	-1.063	669.186
8240	-103.609	-1.063	674.436
8260	-103.609	-1.063	800.224
8280	-103.609	-1.063	1036.444
8300	-103.609	-1.063	1272.664
8320	-103.609	-1.063	1508.885
8340	-103.609	-1.063	1661.719
8360	-103.609	-1.063	1751.011

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INPUT LISTING

8340	-103.609	-1.063	1661.719
8350	-103.609	18.622	1661.719
8360	-103.609	-1.063	1751.011
8380	-103.609	-1.063	1870.184
8400	-103.609	-1.063	1875.434
8420	-103.609	-1.063	1880.684
8440	-103.609	-1.063	2000.566
8460	-103.609	-1.063	2057.377
8480	-103.609	-2.126	2061.393
8500	-103.609	-2.126	2083.046
8520	-103.609	-2.126	2101.472
8540	-103.609	-2.126	2126.668
8560	-103.609	-1.063	2130.684
8580	-103.609	-1.063	2185.802
8600	-103.609	-1.063	2206.826
8620	-103.609	-1.063	2236.747
8640	-103.609	-1.063	2294.228
8660	-103.609	18.622	2294.228
8640	-103.609	-1.063	2294.228
8680	-103.609	-1.063	2452.495
8700	-103.609	18.622	2452.495
8680	-103.609	-1.063	2452.495
8720	-103.609	-1.063	2466.275
8740	-103.609	-1.063	2702.495
8760	-103.609	-1.063	2841.078
8780	-103.609	-1.063	2859.779
8800	-103.609	-1.063	2885.369
8820	-103.609	-1.063	2905.054
8350	-103.609	18.622	1661.719
9180	-103.609	30.157	1661.719
8860	-103.609	41.260	1661.719
8880	-103.609	67.126	1661.719
8900	-103.609	114.764	1661.719
8920	-103.609	126.220	1661.719
8940	-103.609	126.220	1672.507
8960	-103.609	126.220	1709.908
8980	-103.609	126.220	1747.310
9000	-103.609	126.220	1765.145
9020	-103.609	126.220	1789.948
9040	-103.609	102.992	1789.948
9060	-103.609	81.732	1789.948
9040	-103.609	102.992	1789.948
9080	-115.498	102.992	1778.058
9100	-115.498	102.992	1705.460
9120	-115.498	102.992	1679.594
9140	-115.498	102.992	1673.609
9160	-115.498	30.157	1673.609
9160	-115.498	30.157	1673.609
9180	-103.609	30.157	1661.719
8660	-103.609	18.622	2294.228
9200	-103.609	34.882	2294.228
9220	-103.609	60.669	2294.228
9240	-103.609	76.417	2294.228
8700	-103.609	18.622	2452.495
9260	-103.609	34.882	2452.495
9280	-103.609	60.632	2452.495

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INPUT LISTING

9300	-103.609	76.380	2452.495
10010	-129.199	.000	.000
10020	-129.199	.000	7.125
10040	-129.199	.000	109.487
10060	-129.199	.000	263.031
10080	-129.199	.000	303.188
10100	-129.199	-1.063	308.700
10120	-129.199	-1.063	344.920
10140	-129.199	-1.063	409.881
10160	-129.199	-1.063	442.164
10180	-129.199	-1.063	562.243
10200	-129.199	-1.063	663.936
10220	-129.199	-1.063	669.186
10240	-129.199	-1.063	674.436
10260	-129.199	-1.063	800.224
10280	-129.199	-1.063	1036.444
10300	-129.199	-1.063	1272.664
10320	-129.199	-1.063	1508.885
10340	-129.199	-1.063	1661.719
10360	-129.199	-1.063	1751.011
10340	-129.199	-1.063	1661.719
10350	-129.199	18.622	1661.719
10360	-129.199	-1.063	1751.011
10380	-129.199	-1.063	1870.184
10400	-129.199	-1.063	1875.434
10420	-129.199	-1.063	1880.684
10440	-129.199	-1.063	2000.566
10460	-129.199	-1.063	2057.377
10480	-129.199	-2.126	2061.393
10500	-129.199	-2.126	2083.046
10520	-129.199	-2.126	2101.472
10540	-129.199	-2.126	2126.668
10560	-129.199	-1.063	2130.684
10580	-129.199	-1.063	2185.802
10600	-129.199	-1.063	2206.826
10620	-129.199	-1.063	2236.747
10640	-129.199	-1.063	2294.228
10660	-129.199	18.622	2294.228
10640	-129.199	-1.063	2294.228
10680	-129.199	-1.063	2452.495
10700	-129.199	18.622	2452.495
10680	-129.199	-1.063	2452.495
10720	-129.199	-1.063	2466.275
10740	-129.199	-1.063	2702.495
10760	-129.199	-1.063	2841.078
10780	-129.199	-1.063	2859.779
10800	-129.199	-1.063	2885.369
12820	-129.199	-1.063	2905.054
10350	-129.199	18.622	1661.719
11180	-129.199	30.157	1661.719
10860	-129.199	41.260	1661.719
10880	-129.199	67.126	1661.719
10900	-129.199	114.764	1661.719
10920	-129.199	126.220	1661.719
10940	-129.199	126.220	1672.507
10960	-129.199	126.220	1709.908

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INPUT LISTING

10980	-129.199	126.220	1747.310
11000	-129.199	126.220	1765.145
11020	-129.199	126.220	1789.948
11040	-129.199	102.992	1789.948
11060	-129.199	81.732	1789.948
11040	-129.199	102.992	1789.948
11080	-141.089	102.992	1778.058
11100	-141.089	102.992	1705.460
11120	-141.089	102.992	1679.594
11140	-141.089	102.992	1673.609
11160	-141.089	30.157	1673.609
11160	-141.089	30.157	1673.609
11180	-129.199	30.157	1661.719
10660	-129.199	18.622	2294.228
11200	-129.199	34.882	2294.228
11220	-129.199	60.669	2294.228
11240	-129.199	76.417	2294.228
10700	-129.199	18.622	2452.495
11260	-129.199	34.882	2452.495
11280	-129.199	60.632	2452.495
11300	-129.199	76.380	2452.495
1060	-1.246	81.732	1789.948
11320	6.628	81.732	1789.948
1060	-1.246	81.732	1789.948
3060	-26.837	81.732	1789.948
5060	-52.427	81.732	1789.948
7060	-78.018	81.732	1789.948
9060	-103.609	81.732	1789.948
11060	-129.199	81.732	1789.948
14000	-177.231	81.732	1789.948
14020	-177.231	4.961	1789.948
14040	-177.231	4.961	1751.011
14060	-177.231	4.961	1514.790
14080	-177.231	4.961	1278.570
14100	-177.231	4.961	1042.349
14120	-177.231	4.961	806.129
14140	-177.231	4.961	569.908
14160	-177.231	4.961	333.688
14180	-177.231	4.961	97.468
14200	-177.231	4.961	58.097
14020	-177.231	4.961	1789.948
14220	-177.231	4.961	2000.578
1240	-1.246	76.417	2294.228
14240	10.565	76.417	2294.228
1240	-1.246	76.417	2294.228
3240	-26.837	76.417	2294.228
5240	-52.427	76.417	2294.228
7240	-78.018	76.417	2294.228
9240	-103.609	76.417	2294.228
11240	-129.199	76.417	2294.228
14300	-148.884	76.417	2294.228
14320	-155.384	76.417	2294.228
1300	-1.246	76.380	2452.495
14340	10.565	76.380	2452.495
1300	-1.246	76.380	2452.495
3300	-26.837	76.380	2452.495

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INPUT LISTING

5300	-52.427	76.380	2452.495
7300	-78.018	76.380	2452.495
9300	-103.609	76.380	2452.495
11300	-129.199	76.380	2452.495
14400	-148.884	76.380	2452.495
14420	-155.384	76.380	2452.495

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LISTING OF STATIC LOAD CASES FOR THIS ANALYSIS

1 (HGR) CASE NOT ACTIVE
2 (HGR) CASE NOT ACTIVE
3 (HYD) WW+HP+H
4 (OPE) W+T1+P1+H
5 (Alt-SUS) W+P1+H
6 (OPE) W+T2+P1+H
7 (Alt-SUS) W+P1+H
8 (OPE) W+T3+P1+H
9 (Alt-SUS) W+P1+H
10 (SUS) W+P1+H
11 (SUS) WNC+H
12 (OPE) W+T1+P1+H+U1
13 (OPE) W+T1+P1+H-U1
14 (OPE) W+T1+P1+H+U2
15 (OPE) W+T1+P1+H-U2
16 (OPE) W+T1+P1+H+F1
17 (OCC) L17=L12-L4
18 (OCC) L18=L13-L4
19 (OCC) L19=L14-L4
20 (OCC) L20=L15-L4
21 (OCC) L21=L16-L4
22 (OCC) L22=L17+L10
23 (OCC) L23=L18+L10
24 (OCC) L24=L19+L10
25 (OCC) L25=L20+L10
26 (OCC) L26=L21+L10
27 (EXP) L27=L4-L10
28 (EXP) L28=L6-L10
29 (EXP) L29=L8-L10
30 (EXP) L30=L6-L8
31 (OPE) L31=L4, L6, L8
32 (OCC) L32=L17, L18, L19, L20, L21

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RESTRAINT SUMMARY EXTENDED REPORT: Loads On Restraints

Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	3(HYD)	0	-1130	91	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	4(OPE)	2	-1060	318	0.0	0.0	0.0	0.0007	-0.0000	0.1041
	6(OPE)	-15	-1062	318	0.0	0.0	0.0	-0.0161	-0.0000	0.3401
	8(OPE)	0	-1057	-317	0.0	0.0	0.0	0.0000	-0.0000	-0.1049
	10(SUS)	0	-1058	84	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	11(SUS)	0	-1034	83	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	MAX	-15/L6	1130/L3	318/L6				0.0161/L6	0.0000/L3	0.3401/L6
260		TYPE=Rigid +Y;								
	3(HYD)	-0	-387	29	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	4(OPE)	0	-309	93	0.0	0.0	0.0	0.0002	-0.0000	0.1590
	6(OPE)	-7	-302	90	0.0	0.0	0.0	-0.0387	-0.0000	0.5190
	8(OPE)	-0	-316	-95	0.0	0.0	0.0	-0.0003	-0.0000	-0.1611
	10(SUS)	-0	-313	33	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	11(SUS)	-0	-287	38	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	MAX	-7/L6	387/L3	-95/L8				0.0387/L6	0.0000/L3	0.5190/L6
280		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	1	-400	17	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	4(OPE)	-1	-339	102	0.0	0.0	0.0	-0.0021	-0.0000	0.2137
	6(OPE)	-8	-365	109	0.0	0.0	0.0	-0.0481	-0.0000	0.6967
	8(OPE)	-1	-315	-94	0.0	0.0	0.0	-0.0020	-0.0000	-0.2170
	10(SUS)	1	-327	40	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	11(SUS)	1	-303	61	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	MAX	-8/L6	400/L3	109/L6				0.0481/L6	0.0000/L3	0.6967/L6

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RESTRAINT SUMMARY EXTENDED REPORT: Loads On Restraints
 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
300		TYPE=Rigid +Y;								
	3(HYD)	-4	-385	35	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	4(OPE)	-1	-264	79	0.0	0.0	0.0	-0.0028	-0.0000	0.2685
	6(OPE)	-1	-166	50	0.0	0.0	0.0	-0.0257	-0.0000	0.8745
	8(OPE)	2	-355	-106	0.0	0.0	0.0	0.0048	-0.0000	-0.2729
	10(SUS)	-5	-309	93	0.0	0.0	0.0	-0.0000	-0.0000	0.0001
	11(SUS)	-5	-284	85	0.0	0.0	0.0	-0.0000	-0.0000	0.0002
	MAX	-5/L11	-	-				-	-	-
			385/L3	106/L8				0.0257/L6	0.0000/L3	0.8745/L6
320		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	19	-406	116	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	4(OPE)	20	-546	163	0.0	0.0	0.0	0.0388	-0.0000	0.3235
	6(OPE)	16	-989	296	0.0	0.0	0.0	0.0571	-0.0000	1.0523
	8(OPE)	5	-138	-41	0.0	0.0	0.0	0.0390	-0.0000	-0.3291
	10(SUS)	19	-343	101	0.0	0.0	0.0	0.0001	-0.0000	0.0004
	11(SUS)	18	-322	95	0.0	0.0	0.0	0.0001	-0.0000	0.0005
	MAX	20/L4	-	-				-	-	-
			989/L6	296/L6				0.0571/L6	0.0000/L6	1.0523/L6
360		TYPE=Rigid +Y;								
	3(HYD)	44	-709	208	0.0	0.0	0.0	0.0000	-0.0000	0.0002
	4(OPE)	38	-792	235	0.0	0.0	0.0	0.0623	-0.0000	0.3800
	6(OPE)	34	-1080	322	0.0	0.0	0.0	0.1322	-0.0000	1.2355
	8(OPE)	12	-512	-153	0.0	0.0	0.0	0.0314	-0.0000	-0.3871
	10(SUS)	43	-648	190	0.0	0.0	0.0	0.0001	-0.0000	0.0006

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RESTRAINT SUMMARY EXTENDED REPORT: Loads On Restraints
Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	11(SUS)	40	-627	184	0.0	0.0	0.0	0.0002	-0.0000	0.0007
	MAX	44/L3	1080/L6	322/L6				0.1322/L6	0.0000/L6	1.2355/L6
440		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	-7	-439	132	0.0	0.0	0.0	-0.0000	-0.0000	0.0004
	4(OPE)	-0	-358	108	0.0	0.0	0.0	-0.0007	-0.0000	0.4387
	6(OPE)	3	-288	86	0.0	0.0	0.0	0.0468	-0.0000	1.4254
	8(OPE)	-1	-415	-125	0.0	0.0	0.0	-0.0018	-0.0000	-0.4479
	10(SUS)	-6	-386	116	0.0	0.0	0.0	-0.0000	-0.0000	0.0007
	11(SUS)	-6	-368	110	0.0	0.0	0.0	-0.0001	-0.0000	0.0009
	MAX	-7/L3	439/L3	132/L3				0.0468/L6	0.0000/L3	1.4254/L6
620		TYPE=Rigid +Y;								
	3(HYD)	-1	-1265	-149	0.0	0.0	0.0	-0.0000	-0.0000	-0.0001
	4(OPE)	5	-1124	337	0.0	0.0	0.0	0.0071	-0.0000	0.4909
	6(OPE)	9	-1142	342	0.0	0.0	0.0	0.0399	-0.0000	1.6004
	8(OPE)	-8	-1105	-331	0.0	0.0	0.0	-0.0124	-0.0000	-0.5053
	10(SUS)	-1	-1116	-152	0.0	0.0	0.0	-0.0000	-0.0000	-0.0002
	11(SUS)	-1	-1066	-147	0.0	0.0	0.0	-0.0000	-0.0000	-0.0001
	MAX	9/L6	1265/L3	342/L6				0.0399/L6	0.0000/L3	1.6004/L6
720		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	-3	-1120	-38	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	7	-934	280	0.0	0.0	0.0	0.0136	-0.0000	0.5452
	6(OPE)	8	-924	277	0.0	0.0	0.0	0.0492	-0.0000	1.7754

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RESTRAINT SUMMARY EXTENDED REPORT: Loads On Restraints

Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	8(OPE)	-7	-930	-279	0.0	0.0	0.0	-0.0132	-0.0000	-0.5616
	10(SUS)	-3	-931	-38	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	11(SUS)	-3	-867	-37	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	MAX	8/L6	1120/L3	280/L4				0.0492/L6	0.0000/L3	1.7754/L6
740		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	-1	-333	-8	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	1	-269	81	0.0	0.0	0.0	0.0062	-0.0000	0.6019
	6(OPE)	2	-271	81	0.0	0.0	0.0	0.0379	-0.0000	1.9562
	8(OPE)	-2	-266	-80	0.0	0.0	0.0	-0.0130	-0.0000	-0.6203
	10(SUS)	-1	-267	-8	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	11(SUS)	-1	-245	-8	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	MAX	-2/L8	333/L3	81/L6				0.0379/L6	0.0000/L3	1.9562/L6
800		TYPE=Rigid +Y;								
	3(HYD)	0	-481	-2	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	4(OPE)	3	-430	129	0.0	0.0	0.0	0.0134	-0.0000	0.6460
	6(OPE)	3	-429	129	0.0	0.0	0.0	0.0433	-0.0000	2.0963
	8(OPE)	-3	-429	-129	0.0	0.0	0.0	-0.0155	-0.0000	-0.6659
	10(SUS)	0	-429	-2	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	11(SUS)	0	-412	-2	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	MAX	-3/L8	481/L3	129/L4				0.0433/L6	0.0000/L3	2.0963/L6
960		TYPE=Rigid +Y; Rigid X; Rigid Z;								
	3(HYD)	-54	-2394	-322	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000

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RESTRAINT SUMMARY EXTENDED REPORT: Loads On Restraints
 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
2180		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	0	-829	91	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	4(OPE)	0	-760	228	0.0	0.0	0.0	0.0000	-0.0000	0.1044
	6(OPE)	-10	-762	228	0.0	0.0	0.0	-0.0148	-0.0000	0.3403
	8(OPE)	0	-756	-227	0.0	0.0	0.0	0.0000	-0.0000	-0.1053
	10(SUS)	0	-758	82	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	11(SUS)	0	-734	81	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	MAX	-10/L6	829/L3	228/L6				0.0148/L6	0.0000/L3	0.3403/L6
2260		TYPE=Rigid +Y;								
	3(HYD)	-0	-405	28	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	4(OPE)	0	-327	98	0.0	0.0	0.0	0.0001	-0.0000	0.1592
	6(OPE)	-7	-320	96	0.0	0.0	0.0	-0.0357	-0.0000	0.5191
	8(OPE)	-0	-333	-100	0.0	0.0	0.0	-0.0002	-0.0000	-0.1614
	10(SUS)	-0	-330	29	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	11(SUS)	-0	-305	34	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	MAX	-7/L6	405/L3	100/L8				0.0357/L6	0.0000/L3	0.5191/L6
2280		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	1	-395	15	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	4(OPE)	-1	-334	100	0.0	0.0	0.0	-0.0020	-0.0000	0.2137
	6(OPE)	-7	-360	108	0.0	0.0	0.0	-0.0430	-0.0000	0.6966
	8(OPE)	-1	-310	-93	0.0	0.0	0.0	-0.0015	-0.0000	-0.2171
	10(SUS)	1	-322	27	0.0	0.0	0.0	0.0000	-0.0000	0.0000

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RESTRAINT SUMMARY EXTENDED REPORT: Loads On Restraints
 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	11(SUS)	1	-298	48	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	MAX	-7/L6	-395/L3	108/L6				0.0430/L6	0.0000/L3	0.6966/L6
2300		TYPE=Rigid +Y;								
	3(HYD)	-5	-387	29	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	4(OPE)	-1	-266	80	0.0	0.0	0.0	-0.0035	-0.0000	0.2685
	6(OPE)	-1	-169	51	0.0	0.0	0.0	-0.0174	-0.0000	0.8742
	8(OPE)	2	-356	-107	0.0	0.0	0.0	0.0040	-0.0000	-0.2729
	10(SUS)	-4	-311	75	0.0	0.0	0.0	-0.0000	-0.0000	0.0001
	11(SUS)	-5	-285	85	0.0	0.0	0.0	-0.0000	-0.0000	0.0001
	MAX	-5/L11	387/L3	107/L8				0.0174/L6	0.0000/L3	0.8742/L6
2320		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	18	-405	95	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	4(OPE)	20	-541	161	0.0	0.0	0.0	0.0399	-0.0000	0.3234
	6(OPE)	19	-983	294	0.0	0.0	0.0	0.0670	-0.0000	1.0519
	8(OPE)	4	-140	-42	0.0	0.0	0.0	0.0339	-0.0000	-0.3290
	10(SUS)	19	-341	101	0.0	0.0	0.0	0.0000	-0.0000	0.0003
	11(SUS)	19	-320	94	0.0	0.0	0.0	0.0001	-0.0000	0.0004
	MAX	20/L4	983/L6	294/L6				0.0670/L6	0.0000/L6	1.0519/L6
2360		TYPE=Rigid +Y;								
	3(HYD)	39	-709	170	0.0	0.0	0.0	0.0000	-0.0000	0.0002
	4(OPE)	38	-774	229	0.0	0.0	0.0	0.0636	-0.0000	0.3799
	6(OPE)	32	-1059	316	0.0	0.0	0.0	0.1231	-0.0000	1.2349

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	8(OPE)	12	-522	-156	0.0	0.0	0.0	0.0296	-0.0000	-0.3869
	10(SUS)	41	-645	189	0.0	0.0	0.0	0.0001	-0.0000	0.0004
	11(SUS)	41	-624	182	0.0	0.0	0.0	0.0001	-0.0000	0.0006
	MAX	41/L11	1059/L6	316/L6				0.1231/L6	0.0000/L6	1.2349/L6
2440		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	-7	-432	129	0.0	0.0	0.0	-0.0000	-0.0000	0.0003
	4(OPE)	-0	-354	106	0.0	0.0	0.0	-0.0009	-0.0000	0.4385
	6(OPE)	2	-284	85	0.0	0.0	0.0	0.0329	-0.0000	1.4247
	8(OPE)	-0	-408	-122	0.0	0.0	0.0	-0.0014	-0.0000	-0.4476
	10(SUS)	-7	-380	114	0.0	0.0	0.0	-0.0000	-0.0000	0.0006
	11(SUS)	-7	-362	109	0.0	0.0	0.0	-0.0000	-0.0000	0.0008
	MAX	-7/L3	432/L3	129/L3				0.0329/L6	0.0000/L3	1.4247/L6
2620		TYPE=Rigid +Y;								
	3(HYD)	-1	-1318	-131	0.0	0.0	0.0	-0.0000	-0.0000	-0.0001
	4(OPE)	2	-1171	351	0.0	0.0	0.0	0.0035	-0.0000	0.4910
	6(OPE)	5	-1190	357	0.0	0.0	0.0	0.0234	-0.0000	1.6000
	8(OPE)	-6	-1152	-346	0.0	0.0	0.0	-0.0082	-0.0000	-0.5048
	10(SUS)	-0	-1163	-144	0.0	0.0	0.0	-0.0000	-0.0000	-0.0001
	11(SUS)	-0	-1111	-139	0.0	0.0	0.0	-0.0000	-0.0000	-0.0001
	MAX	-6/L8	1318/L3	357/L6				0.0234/L6	0.0000/L3	1.6000/L6
2720		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	-3	-1171	-34	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	4(OPE)	5	-964	289	0.0	0.0	0.0	0.0088	-0.0000	0.5454
	6(OPE)	5	-957	287	0.0	0.0	0.0	0.0308	-0.0000	1.7749
	8(OPE)	-4	-983	-295	0.0	0.0	0.0	-0.0078	-0.0000	-0.5611
	10(SUS)	-3	-975	-37	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	11(SUS)	-2	-910	-36	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	MAX	5/L6	-1171/L3	-295/L8				0.0308/L6	-0.0000/L3	1.7749/L6
2740		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	-1	-330	-8	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	0	-266	80	0.0	0.0	0.0	0.0031	-0.0000	0.6020
	6(OPE)	1	-268	80	0.0	0.0	0.0	0.0211	-0.0000	1.9557
	8(OPE)	-1	-263	-79	0.0	0.0	0.0	-0.0096	-0.0000	-0.6198
	10(SUS)	-1	-264	-8	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	11(SUS)	-1	-242	-8	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	MAX	-1/L3	-330/L3	80/L6				0.0211/L6	-0.0000/L3	1.9557/L6
2800		TYPE=Rigid +Y;								
	3(HYD)	0	-489	-3	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	4(OPE)	1	-434	130	0.0	0.0	0.0	0.0074	-0.0000	0.6461
	6(OPE)	1	-433	130	0.0	0.0	0.0	0.0238	-0.0000	2.0959
	8(OPE)	-2	-435	-130	0.0	0.0	0.0	-0.0093	-0.0000	-0.6654
	10(SUS)	0	-435	-3	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	11(SUS)	0	-416	-3	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	MAX	-2/L8	-489/L3	-130/L8				0.0238/L6	-0.0000/L3	2.0959/L6

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RESTRAINT SUMMARY EXTENDED REPORT: Loads On Restraints
 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
2960		TYPE=Rigid +Y; Rigid X; Rigid Z;								
	3(HYD)	-53	-2418	-291	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	-33	-1753	-256	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	6(OPE)	24	-1111	101	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	8(OPE)	-48	-2405	-400	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	10(SUS)	-59	-2107	-310	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	11(SUS)	-62	-2002	-316	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	MAX	-62/L11	2418/L3	400/L8				0.0000/L11	0.0000/L3	0.0000/L8
4040		TYPE=Rigid +Y; Rigid Z; Rigid X;								
	3(HYD)	-0	-1065	-445	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	-0	-870	-2418	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	6(OPE)	-0	-867	-3081	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	8(OPE)	-0	-893	2818	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	10(SUS)	-0	-879	-402	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	11(SUS)	-0	-816	-388	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	MAX	-0/L6	1065/L3	3081/L6				0.0000/L6	0.0000/L3	0.0000/L6
4120		TYPE=Rigid +Y;								
	3(HYD)	0	-1480	319	0.0	0.0	0.0	0.0000	-0.0000	0.0003
	4(OPE)	0	-1390	417	0.0	0.0	0.0	0.0000	-0.0000	0.0547
	6(OPE)	0	-1392	418	0.0	0.0	0.0	0.0001	-0.0000	0.1775
	8(OPE)	0	-1369	-411	0.0	0.0	0.0	0.0000	-0.0000	-0.0545
	10(SUS)	-0	-1382	289	0.0	0.0	0.0	-0.0000	-0.0000	0.0003

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	11(SUS)	-0	-1349	279	0.0	0.0	0.0	-0.0000	-0.0000	0.0003
	MAX	0/L6	1480/L3	418/L6				0.0001/L6	0.0000/L3	0.1775/L6
4180		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	0	-1130	90	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	4(OPE)	0	-1060	318	0.0	0.0	0.0	0.0001	-0.0000	0.1038
	6(OPE)	-0	-1062	319	0.0	0.0	0.0	-0.0000	-0.0000	0.3396
	8(OPE)	0	-1057	-317	0.0	0.0	0.0	0.0000	-0.0000	-0.1046
	10(SUS)	0	-1058	83	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	11(SUS)	0	-1034	80	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	MAX	0/L4	1130/L3	319/L6				0.0001/L4	0.0000/L3	0.3396/L6
4260		TYPE=Rigid +Y;								
	3(HYD)	-0	-387	28	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	4(OPE)	0	-309	93	0.0	0.0	0.0	0.0001	-0.0000	0.1586
	6(OPE)	-0	-302	91	0.0	0.0	0.0	-0.0017	-0.0000	0.5183
	8(OPE)	-0	-316	-95	0.0	0.0	0.0	-0.0001	-0.0000	-0.1607
	10(SUS)	-0	-313	28	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	11(SUS)	-0	-287	29	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	MAX	-0/L11	387/L3	-95/L8				0.0017/L6	0.0000/L3	0.5183/L6
4280		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	1	-399	14	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	4(OPE)	-1	-338	102	0.0	0.0	0.0	-0.0022	-0.0000	0.2131
	6(OPE)	-1	-365	109	0.0	0.0	0.0	-0.0070	-0.0000	0.6956

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RESTRAINT SUMMARY EXTENDED REPORT: Loads On Restraints
Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	8(OPE)	-1	-315	-95	0.0	0.0	0.0	-0.0012	-0.0000	-0.2164
	10(SUS)	1	-327	23	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	11(SUS)	1	-302	29	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	MAX	1/L11	-399/L3	109/L6				0.0070/L6	0.0000/L3	0.6956/L6
4300		TYPE=Rigid +Y;								
	3(HYD)	-5	-386	26	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	4(OPE)	-1	-267	80	0.0	0.0	0.0	-0.0035	-0.0000	0.2677
	6(OPE)	0	-169	51	0.0	0.0	0.0	0.0006	-0.0000	0.8732
	8(OPE)	1	-354	-106	0.0	0.0	0.0	0.0028	-0.0000	-0.2723
	10(SUS)	-5	-310	61	0.0	0.0	0.0	-0.0000	-0.0000	0.0001
	11(SUS)	-5	-285	83	0.0	0.0	0.0	-0.0000	-0.0000	0.0001
	MAX	-5/L11	-386/L3	106/L8				0.0035/L4	0.0000/L3	0.8732/L6
4320		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	18	-405	87	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	4(OPE)	21	-536	160	0.0	0.0	0.0	0.0429	-0.0000	0.3225
	6(OPE)	21	-978	293	0.0	0.0	0.0	0.0765	-0.0000	1.0509
	8(OPE)	4	-142	-42	0.0	0.0	0.0	0.0275	-0.0000	-0.3283
	10(SUS)	20	-341	100	0.0	0.0	0.0	0.0000	-0.0000	0.0002
	11(SUS)	20	-319	94	0.0	0.0	0.0	0.0001	-0.0000	0.0003
	MAX	21/L6	-978/L6	293/L6				0.0765/L6	0.0000/L6	1.0509/L6
4360		TYPE=Rigid +Y;								
	3(HYD)	39	-709	144	0.0	0.0	0.0	0.0000	-0.0000	0.0001

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	4(OPE)	38	-756	224	0.0	0.0	0.0	0.0639	-0.0000	0.3790
	6(OPE)	31	-1038	310	0.0	0.0	0.0	0.1229	-0.0000	1.2339
	8(OPE)	11	-533	-159	0.0	0.0	0.0	0.0276	-0.0000	-0.3862
	10(SUS)	43	-642	188	0.0	0.0	0.0	0.0001	-0.0000	0.0003
	11(SUS)	41	-620	181	0.0	0.0	0.0	0.0001	-0.0000	0.0004
	MAX	43/L10	-1038/L6	310/L6				0.1229/L6	-0.0000/L6	1.2339/L6
4440		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	-7	-425	127	0.0	0.0	0.0	-0.0000	-0.0000	0.0002
	4(OPE)	-0	-350	105	0.0	0.0	0.0	-0.0017	-0.0000	0.4376
	6(OPE)	2	-280	84	0.0	0.0	0.0	0.0273	-0.0000	1.4237
	8(OPE)	-0	-400	-120	0.0	0.0	0.0	-0.0009	-0.0000	-0.4470
	10(SUS)	-7	-374	112	0.0	0.0	0.0	-0.0000	-0.0000	0.0005
	11(SUS)	-7	-357	107	0.0	0.0	0.0	-0.0000	-0.0000	0.0006
	MAX	-7/L10	-425/L3	127/L3				0.0273/L6	-0.0000/L3	1.4237/L6
4620		TYPE=Rigid +Y;								
	3(HYD)	0	-1371	-107	0.0	0.0	0.0	0.0000	-0.0000	-0.0001
	4(OPE)	0	-1218	365	0.0	0.0	0.0	0.0001	-0.0000	0.4904
	6(OPE)	2	-1238	371	0.0	0.0	0.0	0.0084	-0.0000	1.5992
	8(OPE)	-3	-1201	-360	0.0	0.0	0.0	-0.0039	-0.0000	-0.5040
	10(SUS)	0	-1210	-129	0.0	0.0	0.0	0.0000	-0.0000	-0.0001
	11(SUS)	0	-1156	-135	0.0	0.0	0.0	0.0000	-0.0000	-0.0001
	MAX	-3/L8	-1371/L3	371/L6				0.0084/L6	-0.0000/L3	1.5992/L6

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
4720		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	-2	-1226	-28	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	2	-1009	303	0.0	0.0	0.0	0.0039	-0.0000	0.5448
	6(OPE)	2	-1001	300	0.0	0.0	0.0	0.0126	-0.0000	1.7742
	8(OPE)	-1	-1036	-311	0.0	0.0	0.0	-0.0022	-0.0000	-0.5603
	10(SUS)	-1	-1024	-33	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	11(SUS)	-1	-957	-35	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	MAX	2/L4	1226/L3	311/L8				0.0126/L6	0.0000/L3	1.7742/L6
4740		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	-1	-326	-6	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	-0	-263	79	0.0	0.0	0.0	-0.0003	-0.0000	0.6016
	6(OPE)	0	-265	80	0.0	0.0	0.0	0.0048	-0.0000	1.9551
	8(OPE)	-1	-260	-78	0.0	0.0	0.0	-0.0059	-0.0000	-0.6190
	10(SUS)	-1	-261	-8	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	11(SUS)	-1	-239	-8	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	MAX	-1/L3	326/L3	80/L6				0.0059/L8	0.0000/L3	1.9551/L6
4800		TYPE=Rigid +Y;								
	3(HYD)	0	-486	-2	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	4(OPE)	0	-431	129	0.0	0.0	0.0	0.0015	-0.0000	0.6457
	6(OPE)	0	-430	129	0.0	0.0	0.0	0.0044	-0.0000	2.0952
	8(OPE)	-1	-432	-130	0.0	0.0	0.0	-0.0032	-0.0000	-0.6646
	10(SUS)	0	-432	-3	0.0	0.0	0.0	0.0000	-0.0000	-0.0000

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	11(SUS)	0	-414	-3	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	MAX	-1/L8	-	-				0.0044/L6	-	2.0952/L6
			486/L3	130/L8					0.0000/L3	
4960		TYPE=Rigid +Y; Rigid X; Rigid Z;								
	3(HYD)	-53	-2439	-266	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	-53	-1899	-133	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	6(OPE)	-16	-1294	308	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	8(OPE)	-27	-2333	-492	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	10(SUS)	-60	-2137	-299	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	11(SUS)	-62	-2035	-310	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	MAX	-62/L11	-	-				-	-	-
			2439/L3	492/L8				0.0000/L11	0.0000/L3	0.0000/L8
6040		TYPE=Rigid +Y; Rigid Z; Rigid X;								
	3(HYD)	-0	-1052	-424	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	-0	-856	-2487	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	6(OPE)	-0	-853	-3157	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	8(OPE)	-0	-880	2891	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	10(SUS)	-0	-865	-380	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	11(SUS)	-0	-803	-366	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	MAX	-0/L6	-	-				-	-	-
			1052/L3	3157/L6				0.0000/L6	0.0000/L3	0.0000/L6
6120		TYPE=Rigid +Y;								
	3(HYD)	0	-1798	298	0.0	0.0	0.0	0.0000	-0.0000	0.0003
	4(OPE)	0	-1710	513	0.0	0.0	0.0	0.0000	-0.0000	0.0546
	6(OPE)	0	-1712	514	0.0	0.0	0.0	0.0001	-0.0000	0.1773

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	8(OPE)	0	-1688	-506	0.0	0.0	0.0	0.0000	-0.0000	-0.0544
	10(SUS)	-0	-1701	267	0.0	0.0	0.0	-0.0000	-0.0000	0.0003
	11(SUS)	-0	-1669	257	0.0	0.0	0.0	-0.0000	-0.0000	0.0003
	MAX	0/L6	1798/L3	514/L6				0.0001/L6	0.0000/L3	0.1773/L6
6180		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	0	-829	91	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	4(OPE)	0	-759	228	0.0	0.0	0.0	0.0000	-0.0000	0.1040
	6(OPE)	-0	-762	228	0.0	0.0	0.0	-0.0001	-0.0000	0.3399
	8(OPE)	0	-756	-227	0.0	0.0	0.0	0.0000	-0.0000	-0.1050
	10(SUS)	0	-758	82	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	11(SUS)	0	-734	79	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	MAX	0/L11	829/L3	228/L6				0.0001/L6	0.0000/L3	0.3399/L6
6260		TYPE=Rigid +Y;								
	3(HYD)	-0	-405	28	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	4(OPE)	0	-327	98	0.0	0.0	0.0	0.0001	-0.0000	0.1587
	6(OPE)	-0	-320	96	0.0	0.0	0.0	-0.0020	-0.0000	0.5184
	8(OPE)	-0	-333	-100	0.0	0.0	0.0	-0.0001	-0.0000	-0.1610
	10(SUS)	-0	-330	27	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	11(SUS)	-0	-305	27	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	MAX	-0/L6	405/L3	100/L8				0.0020/L6	0.0000/L3	0.5184/L6
6280		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	1	-395	14	0.0	0.0	0.0	0.0000	-0.0000	0.0000

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	4(OPE)	-1	-333	100	0.0	0.0	0.0	-0.0024	-0.0000	0.2130
	6(OPE)	-1	-360	108	0.0	0.0	0.0	-0.0068	-0.0000	0.6956
	8(OPE)	-0	-311	-93	0.0	0.0	0.0	-0.0010	-0.0000	-0.2165
	10(SUS)	1	-322	18	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	11(SUS)	1	-298	23	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	MAX	1/L11	- 395/L3	108/L6				0.0068/L6	- 0.0000/L3	0.6956/L6
6300		TYPE=Rigid +Y;								
	3(HYD)	-5	-387	24	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	4(OPE)	-1	-270	81	0.0	0.0	0.0	-0.0027	-0.0000	0.2676
	6(OPE)	0	-172	52	0.0	0.0	0.0	0.0051	-0.0000	0.8730
	8(OPE)	1	-354	-106	0.0	0.0	0.0	0.0017	-0.0000	-0.2722
	10(SUS)	-5	-312	42	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	11(SUS)	-5	-286	61	0.0	0.0	0.0	-0.0000	-0.0000	0.0001
	MAX	-5/L11	- 387/L3	- 106/L8				0.0051/L6	- 0.0000/L3	0.8730/L6
6320		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	18	-404	79	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	4(OPE)	25	-531	157	0.0	0.0	0.0	0.0505	-0.0000	0.3222
	6(OPE)	24	-971	290	0.0	0.0	0.0	0.0879	-0.0000	1.0505
	8(OPE)	3	-144	-43	0.0	0.0	0.0	0.0203	-0.0000	-0.3281
	10(SUS)	22	-339	99	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	11(SUS)	21	-317	93	0.0	0.0	0.0	0.0000	-0.0000	0.0002
	MAX	25/L4	- 971/L6	290/L6				0.0879/L6	- 0.0000/L6	1.0505/L6

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
6360		TYPE=Rigid +Y;								
	3(HYD)	39	-709	120	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	4(OPE)	39	-735	217	0.0	0.0	0.0	0.0687	-0.0000	0.3786
	6(OPE)	30	-1015	303	0.0	0.0	0.0	0.1215	-0.0000	1.2333
	8(OPE)	11	-546	-164	0.0	0.0	0.0	0.0254	-0.0000	-0.3858
	10(SUS)	42	-639	187	0.0	0.0	0.0	0.0001	-0.0000	0.0002
	11(SUS)	42	-616	180	0.0	0.0	0.0	0.0001	-0.0000	0.0003
	MAX	42/L11	- 1015/L6	- 303/L6				0.1215/L6	- 0.0000/L6	1.2333/L6
6440		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	-7	-418	110	0.0	0.0	0.0	-0.0000	-0.0000	0.0001
	4(OPE)	-0	-347	104	0.0	0.0	0.0	-0.0018	-0.0000	0.4372
	6(OPE)	1	-277	83	0.0	0.0	0.0	0.0186	-0.0000	1.4230
	8(OPE)	-0	-392	-118	0.0	0.0	0.0	-0.0002	-0.0000	-0.4464
	10(SUS)	-7	-368	110	0.0	0.0	0.0	-0.0000	-0.0000	0.0003
	11(SUS)	-7	-352	105	0.0	0.0	0.0	-0.0000	-0.0000	0.0005
	MAX	-7/L11	- 418/L3	- 118/L8				0.0186/L6	- 0.0000/L3	1.4230/L6
6620		TYPE=Rigid +Y;								
	3(HYD)	2	-1426	-81	0.0	0.0	0.0	0.0000	-0.0000	-0.0001
	4(OPE)	-2	-1267	380	0.0	0.0	0.0	-0.0029	-0.0000	0.4900
	6(OPE)	-2	-1287	386	0.0	0.0	0.0	-0.0067	-0.0000	1.5986
	8(OPE)	0	-1249	-375	0.0	0.0	0.0	0.0004	-0.0000	-0.5031
	10(SUS)	2	-1258	-121	0.0	0.0	0.0	0.0000	-0.0000	-0.0001
	11(SUS)	2	-1202	-124	0.0	0.0	0.0	0.0000	-0.0000	-0.0001

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	MAX	-2/L4	1426/L3	386/L6				0.0067/L6	0.0000/L3	1.5986/L6
6720		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	1	-1297	-21	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	4(OPE)	-0	-1072	322	0.0	0.0	0.0	-0.0006	-0.0000	0.5443
	6(OPE)	-1	-1063	319	0.0	0.0	0.0	-0.0051	-0.0000	1.7734
	8(OPE)	2	-1098	-329	0.0	0.0	0.0	0.0037	-0.0000	-0.5592
	10(SUS)	1	-1087	-30	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	11(SUS)	1	-1017	-31	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	MAX	2/L8	1297/L3	329/L8				0.0051/L6	0.0000/L3	1.7734/L6
6740		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	-2	-322	-5	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	-0	-259	78	0.0	0.0	0.0	-0.0038	-0.0000	0.6011
	6(OPE)	-0	-261	78	0.0	0.0	0.0	-0.0114	-0.0000	1.9542
	8(OPE)	-0	-256	-77	0.0	0.0	0.0	-0.0023	-0.0000	-0.6179
	10(SUS)	-1	-257	-7	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	11(SUS)	-1	-236	-7	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	MAX	-2/L3	322/L3	78/L6				0.0114/L6	0.0000/L3	1.9542/L6
6800		TYPE=Rigid +Y;								
	3(HYD)	0	-484	-2	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	4(OPE)	-1	-429	129	0.0	0.0	0.0	-0.0045	-0.0000	0.6452
	6(OPE)	-1	-428	128	0.0	0.0	0.0	-0.0150	-0.0000	2.0944
	8(OPE)	1	-430	-129	0.0	0.0	0.0	0.0029	-0.0000	-0.6634

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	10(SUS)	0	-430	-2	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	11(SUS)	0	-411	-2	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	MAX	-1/L6	484/L3	129/L8				0.0150/L6	0.0000/L3	2.0944/L6
6960		TYPE=Rigid +Y; Rigid X; Rigid Z;								
	3(HYD)	-54	-2461	-233	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	-84	-2067	49	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	6(OPE)	-76	-1503	595	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	8(OPE)	5	-2237	-629	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	10(SUS)	-60	-2168	-279	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	11(SUS)	-63	-2069	-295	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	MAX	-84/L4	2461/L3	629/L8				0.0000/L4	0.0000/L3	0.0000/L8
8040		TYPE=Rigid +Y; Rigid Z; Rigid X;								
	3(HYD)	-0	-1065	-445	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	-0	-869	-2568	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	6(OPE)	-0	-866	-3203	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	8(OPE)	-0	-893	2987	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	10(SUS)	-0	-879	-403	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	11(SUS)	-0	-816	-388	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	MAX	-0/L6	1065/L3	3203/L6				0.0000/L6	0.0000/L3	0.0000/L6
8120		TYPE=Rigid +Y;								
	3(HYD)	0	-1480	319	0.0	0.0	0.0	0.0000	-0.0000	0.0003
	4(OPE)	0	-1391	417	0.0	0.0	0.0	0.0000	-0.0000	0.0545

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	6(OPE)	0	-1393	418	0.0	0.0	0.0	0.0001	-0.0000	0.1773
	8(OPE)	0	-1368	-410	0.0	0.0	0.0	0.0000	-0.0000	-0.0543
	10(SUS)	-0	-1382	289	0.0	0.0	0.0	-0.0000	-0.0000	0.0003
	11(SUS)	-0	-1349	279	0.0	0.0	0.0	-0.0000	-0.0000	0.0003
	MAX	0/L6	-1480/L3	418/L6				0.0001/L6	-0.0000/L3	0.1773/L6
8180		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	0	-1130	90	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	4(OPE)	0	-1060	318	0.0	0.0	0.0	0.0001	-0.0000	0.1034
	6(OPE)	-0	-1062	318	0.0	0.0	0.0	-0.0003	-0.0000	0.3391
	8(OPE)	-0	-1057	-317	0.0	0.0	0.0	-0.0001	-0.0000	-0.1042
	10(SUS)	0	-1058	82	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	11(SUS)	0	-1034	79	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	MAX	0/L4	-1130/L3	318/L6				0.0003/L6	-0.0000/L3	0.3391/L6
8260		TYPE=Rigid +Y;								
	3(HYD)	-0	-387	28	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	4(OPE)	0	-310	93	0.0	0.0	0.0	0.0001	-0.0000	0.1580
	6(OPE)	-0	-303	91	0.0	0.0	0.0	-0.0025	-0.0000	0.5175
	8(OPE)	-0	-316	-95	0.0	0.0	0.0	-0.0000	-0.0000	-0.1600
	10(SUS)	-0	-313	26	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	11(SUS)	-0	-288	26	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	MAX	-0/L6	-387/L3	-95/L8				0.0025/L6	-0.0000/L3	0.5175/L6
8280		TYPE=Rigid +Y; Rigid X w/gap;								

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	3(HYD)	1	-399	13	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	4(OPE)	-1	-338	101	0.0	0.0	0.0	-0.0029	-0.0000	0.2122
	6(OPE)	-1	-364	109	0.0	0.0	0.0	-0.0074	-0.0000	0.6946
	8(OPE)	-0	-316	-95	0.0	0.0	0.0	-0.0005	-0.0000	-0.2154
	10(SUS)	1	-327	14	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	11(SUS)	1	-302	18	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	MAX	-1/L4	-399/L3	109/L6				0.0074/L6	0.0000/L3	0.6946/L6
8300		TYPE=Rigid +Y;								
	3(HYD)	-4	-386	23	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	4(OPE)	-1	-270	81	0.0	0.0	0.0	-0.0026	-0.0000	0.2666
	6(OPE)	0	-173	52	0.0	0.0	0.0	0.0065	-0.0000	0.8718
	8(OPE)	0	-352	-106	0.0	0.0	0.0	0.0002	-0.0000	-0.2710
	10(SUS)	-5	-311	27	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	11(SUS)	-5	-285	43	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	MAX	-5/L11	-386/L3	106/L8				0.0065/L6	0.0000/L3	0.8718/L6
8320		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	18	-403	74	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	4(OPE)	27	-525	155	0.0	0.0	0.0	0.0559	-0.0000	0.3212
	6(OPE)	27	-964	288	0.0	0.0	0.0	0.0977	-0.0000	1.0492
	8(OPE)	2	-148	-44	0.0	0.0	0.0	0.0113	-0.0000	-0.3268
	10(SUS)	20	-338	90	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	11(SUS)	23	-316	92	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	MAX	27/L4	-964/L6	288/L6				0.0977/L6	0.0000/L6	1.0492/L6

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
8360		TYPE=Rigid +Y;								
	3(HYD)	39	-710	108	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	4(OPE)	40	-712	210	0.0	0.0	0.0	0.0713	-0.0000	0.3775
	6(OPE)	30	-989	295	0.0	0.0	0.0	0.1271	-0.0000	1.2319
	8(OPE)	10	-563	-169	0.0	0.0	0.0	0.0223	-0.0000	-0.3844
	10(SUS)	39	-636	153	0.0	0.0	0.0	0.0000	-0.0000	0.0002
	11(SUS)	42	-612	178	0.0	0.0	0.0	0.0001	-0.0000	0.0002
	MAX	42/L11	-989/L6	295/L6				0.1271/L6	-0.0000/L6	1.2319/L6
8440		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	-7	-411	75	0.0	0.0	0.0	-0.0000	-0.0000	0.0001
	4(OPE)	-1	-343	103	0.0	0.0	0.0	-0.0027	-0.0000	0.4361
	6(OPE)	1	-273	82	0.0	0.0	0.0	0.0156	-0.0000	1.4216
	8(OPE)	0	-383	-115	0.0	0.0	0.0	0.0003	-0.0000	-0.4450
	10(SUS)	-7	-362	108	0.0	0.0	0.0	-0.0000	-0.0000	0.0002
	11(SUS)	-7	-346	104	0.0	0.0	0.0	-0.0000	-0.0000	0.0003
	MAX	-7/L11	-411/L3	-115/L8				0.0156/L6	-0.0000/L3	1.4216/L6
8620		TYPE=Rigid +Y;								
	3(HYD)	4	-1482	-47	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	4(OPE)	-5	-1316	395	0.0	0.0	0.0	-0.0058	-0.0000	0.4891
	6(OPE)	-5	-1337	401	0.0	0.0	0.0	-0.0208	-0.0000	1.5973
	8(OPE)	4	-1301	-390	0.0	0.0	0.0	0.0046	-0.0000	-0.5013
	10(SUS)	4	-1307	-105	0.0	0.0	0.0	0.0000	-0.0000	-0.0001

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	11(SUS)	3	-1248	-113	0.0	0.0	0.0	0.0000	-0.0000	-0.0001
	MAX	-5/L6	1482/L3	401/L6				0.0208/L6	0.0000/L3	1.5973/L6
8720		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	5	-1397	-9	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	4(OPE)	-3	-1169	351	0.0	0.0	0.0	-0.0047	-0.0000	0.5435
	6(OPE)	-4	-1162	349	0.0	0.0	0.0	-0.0223	-0.0000	1.7721
	8(OPE)	6	-1176	-353	0.0	0.0	0.0	0.0095	-0.0000	-0.5575
	10(SUS)	4	-1176	-23	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	11(SUS)	4	-1101	-25	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	MAX	6/L8	1397/L3	353/L8				0.0223/L6	0.0000/L3	1.7721/L6
8740		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	-2	-317	-2	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	-1	-254	76	0.0	0.0	0.0	-0.0071	-0.0000	0.6002
	6(OPE)	-1	-256	77	0.0	0.0	0.0	-0.0269	-0.0000	1.9529
	8(OPE)	0	-251	-75	0.0	0.0	0.0	0.0022	-0.0000	-0.6163
	10(SUS)	-2	-252	-5	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	11(SUS)	-2	-231	-6	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	MAX	-2/L3	317/L3	77/L6				0.0269/L6	0.0000/L3	1.9529/L6
8800		TYPE=Rigid +Y;								
	3(HYD)	1	-510	-1	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	4(OPE)	-2	-453	136	0.0	0.0	0.0	-0.0104	-0.0000	0.6443
	6(OPE)	-2	-452	136	0.0	0.0	0.0	-0.0343	-0.0000	2.0931

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	8(OPE)	2	-454	-136	0.0	0.0	0.0	0.0093	-0.0000	-0.6621
	10(SUS)	1	-453	-2	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	11(SUS)	1	-434	-2	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	MAX	-2/L6	510/L3	136/L8				0.0343/L6	0.0000/L3	2.0931/L6
8960		TYPE=Rigid +Y; Rigid X; Rigid Z;								
	3(HYD)	-56	-2484	-172	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	-129	-2279	400	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	6(OPE)	-158	-1774	1178	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	8(OPE)	49	-2099	-915	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	10(SUS)	-62	-2200	-248	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	11(SUS)	-64	-2105	-273	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	MAX	-158/L6	2484/L3	1178/L6				0.0000/L6	0.0000/L3	0.0000/L6
10040		TYPE=Rigid +Y; Rigid Z; Rigid X;								
	3(HYD)	-0	-1052	-424	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	-0	-856	-2590	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	6(OPE)	-0	-853	-3299	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	8(OPE)	-0	-880	2973	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	10(SUS)	-0	-865	-380	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	11(SUS)	-0	-803	-366	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	MAX	-0/L6	1052/L3	3299/L6				0.0000/L6	0.0000/L3	0.0000/L6
10120		TYPE=Rigid +Y;								
	3(HYD)	0	-1798	298	0.0	0.0	0.0	0.0000	-0.0000	0.0003

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	4(OPE)	0	-1710	513	0.0	0.0	0.0	0.0000	-0.0000	0.0544
	6(OPE)	0	-1713	514	0.0	0.0	0.0	0.0001	-0.0000	0.1771
	8(OPE)	0	-1687	-506	0.0	0.0	0.0	0.0000	-0.0000	-0.0543
	10(SUS)	-0	-1701	267	0.0	0.0	0.0	-0.0000	-0.0000	0.0003
	11(SUS)	-0	-1669	257	0.0	0.0	0.0	-0.0000	-0.0000	0.0003
	MAX	0/L6	-1798/L3	514/L6				0.0001/L6	-0.0000/L3	0.1771/L6
10180		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	0	-829	91	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	4(OPE)	0	-759	228	0.0	0.0	0.0	0.0000	-0.0000	0.1037
	6(OPE)	-0	-761	228	0.0	0.0	0.0	-0.0002	-0.0000	0.3394
	8(OPE)	-0	-756	-227	0.0	0.0	0.0	-0.0000	-0.0000	-0.1048
	10(SUS)	0	-758	81	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	11(SUS)	0	-734	78	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	MAX	-0/L6	-829/L3	228/L6				0.0002/L6	-0.0000/L3	0.3394/L6
10260		TYPE=Rigid +Y;								
	3(HYD)	-0	-405	28	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	4(OPE)	-0	-327	98	0.0	0.0	0.0	-0.0000	-0.0000	0.1581
	6(OPE)	-1	-320	96	0.0	0.0	0.0	-0.0029	-0.0000	0.5176
	8(OPE)	0	-333	-100	0.0	0.0	0.0	0.0001	-0.0000	-0.1605
	10(SUS)	-0	-330	25	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	11(SUS)	-0	-305	25	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	MAX	-1/L6	-405/L3	100/L8				0.0029/L6	-0.0000/L3	0.5176/L6

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Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
10280		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	1	-395	13	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	4(OPE)	-2	-332	100	0.0	0.0	0.0	-0.0034	-0.0000	0.2121
	6(OPE)	-1	-358	107	0.0	0.0	0.0	-0.0070	-0.0000	0.6945
	8(OPE)	-0	-311	-93	0.0	0.0	0.0	-0.0001	-0.0000	-0.2158
	10(SUS)	1	-322	13	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	11(SUS)	1	-297	14	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	MAX	-2/L4	-395/L3	107/L6				0.0070/L6	0.0000/L3	0.6945/L6
10300		TYPE=Rigid +Y;								
	3(HYD)	-4	-388	22	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	4(OPE)	-0	-274	82	0.0	0.0	0.0	-0.0011	-0.0000	0.2664
	6(OPE)	1	-177	53	0.0	0.0	0.0	0.0145	-0.0000	0.8715
	8(OPE)	-1	-352	-106	0.0	0.0	0.0	-0.0015	-0.0000	-0.2713
	10(SUS)	-5	-313	24	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	11(SUS)	-5	-287	27	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	MAX	-5/L11	388/L3	106/L8				0.0145/L6	0.0000/L3	0.8715/L6
10320		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	18	-402	70	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	4(OPE)	32	-517	152	0.0	0.0	0.0	0.0687	-0.0000	0.3208
	6(OPE)	32	-955	285	0.0	0.0	0.0	0.1181	-0.0000	1.0487
	8(OPE)	0	-152	-46	0.0	0.0	0.0	0.0013	-0.0000	-0.3270
	10(SUS)	20	-336	80	0.0	0.0	0.0	0.0000	-0.0000	0.0001

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	11(SUS)	23	-314	90	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	MAX	32/L4	-955/L6	285/L6				0.1181/L6	0.0000/L6	1.0487/L6
10360		TYPE=Rigid +Y;								
	3(HYD)	38	-711	96	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	4(OPE)	44	-683	200	0.0	0.0	0.0	0.0823	-0.0000	0.3768
	6(OPE)	31	-956	285	0.0	0.0	0.0	0.1354	-0.0000	1.2312
	8(OPE)	8	-584	-175	0.0	0.0	0.0	0.0187	-0.0000	-0.3846
	10(SUS)	39	-633	126	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	11(SUS)	39	-607	146	0.0	0.0	0.0	0.0000	-0.0000	0.0001
	MAX	44/L4	-956/L6	285/L6				0.1354/L6	0.0000/L6	1.2312/L6
10440		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	-7	-404	38	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	4(OPE)	-0	-340	102	0.0	0.0	0.0	-0.0012	-0.0000	0.4352
	6(OPE)	1	-271	81	0.0	0.0	0.0	0.0117	-0.0000	1.4206
	8(OPE)	0	-373	-112	0.0	0.0	0.0	0.0015	-0.0000	-0.4450
	10(SUS)	-8	-356	107	0.0	0.0	0.0	-0.0000	-0.0000	0.0001
	11(SUS)	-8	-340	102	0.0	0.0	0.0	-0.0000	-0.0000	0.0002
	MAX	-8/L10	404/L3	112/L8				0.0117/L6	0.0000/L3	1.4206/L6
10620		TYPE=Rigid +Y;								
	3(HYD)	5	-1539	-10	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	4(OPE)	-7	-1366	410	0.0	0.0	0.0	-0.0086	-0.0000	0.4882
	6(OPE)	-9	-1388	416	0.0	0.0	0.0	-0.0351	-0.0000	1.5962

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	8(OPE)	8	-1352	-405	0.0	0.0	0.0	0.0095	-0.0000	-0.5011
	10(SUS)	5	-1357	-81	0.0	0.0	0.0	0.0000	-0.0000	-0.0001
	11(SUS)	5	-1296	-98	0.0	0.0	0.0	0.0000	-0.0000	-0.0001
	MAX	-9/L6	1539/L3	416/L6				0.0351/L6	0.0000/L3	1.5962/L6
10720		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	9	-1534	5	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	4(OPE)	-6	-1305	392	0.0	0.0	0.0	-0.0085	-0.0000	0.5424
	6(OPE)	-9	-1299	390	0.0	0.0	0.0	-0.0390	-0.0000	1.7708
	8(OPE)	11	-1301	-390	0.0	0.0	0.0	0.0155	-0.0000	-0.5570
	10(SUS)	8	-1297	-12	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	11(SUS)	7	-1218	-17	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	MAX	11/L8	1534/L3	392/L4				0.0390/L6	0.0000/L3	1.7708/L6
10740		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	-2	-307	1	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	4(OPE)	-1	-245	73	0.0	0.0	0.0	-0.0106	-0.0000	0.5991
	6(OPE)	-2	-247	74	0.0	0.0	0.0	-0.0432	-0.0000	1.9515
	8(OPE)	1	-242	-73	0.0	0.0	0.0	0.0072	-0.0000	-0.6155
	10(SUS)	-2	-244	-3	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	11(SUS)	-2	-222	-4	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	MAX	-2/L3	307/L3	74/L6				0.0432/L6	0.0000/L3	1.9515/L6
10800		TYPE=Rigid +Y;								
	3(HYD)	1	-640	-0	0.0	0.0	0.0	0.0000	-0.0000	-0.0000

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	4(OPE)	-4	-573	172	0.0	0.0	0.0	-0.0164	-0.0000	0.6431
	6(OPE)	-4	-573	172	0.0	0.0	0.0	-0.0537	-0.0000	2.0916
	8(OPE)	4	-572	-172	0.0	0.0	0.0	0.0158	-0.0000	-0.6610
	10(SUS)	1	-572	-2	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	11(SUS)	1	-549	-2	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	MAX	-4/L6	-	172/L4				0.0537/L6	-	2.0916/L6
			640/L3						0.0000/L3	
10960		TYPE=Rigid +Y; Rigid X; Rigid Z;								
	3(HYD)	-58	-2514	-45	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	-181	-2562	1102	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	6(OPE)	-254	-2158	2411	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	8(OPE)	100	-1892	-1514	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	10(SUS)	-64	-2237	-191	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	11(SUS)	-66	-2144	-241	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	MAX	-254/L6	-	2411/L6				0.0000/L6	-	0.0000/L6
			2562/L4						0.0000/L4	
14040		TYPE=Rigid +Y;								
	3(HYD)	37	-1993	-45	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	4(OPE)	44	-432	122	0.0	0.0	0.0	0.1204	-0.0000	0.3342
	6(OPE)	0	0	0	0.0	0.0	0.0	0.1306	0.2739	1.0742
	8(OPE)	-73	-1870	-556	0.0	0.0	0.0	-0.0448	-0.0000	-0.3424
	10(SUS)	79	-1035	21	0.0	0.0	0.0	0.0001	-0.0000	0.0000
	11(SUS)	92	-713	43	0.0	0.0	0.0	0.0001	-0.0000	0.0000
	MAX	92/L11	-	-				0.1306/L6	-	1.0742/L6
			1993/L3	556/L8					0.2739/L6	

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
14060		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	-3	-1170	-17	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	44	-938	278	0.0	0.0	0.0	0.0437	-0.0000	0.2779
	6(OPE)	23	-1238	371	0.0	0.0	0.0	0.0557	-0.0000	0.8945
	8(OPE)	1	-406	-122	0.0	0.0	0.0	0.0016	-0.0000	-0.2848
	10(SUS)	0	-685	8	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	11(SUS)	2	-522	17	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	MAX	44/L4	-	371/L6				0.0557/L6	-	0.8945/L6
			1238/L6						0.0000/L6	
14080		TYPE=Rigid +Y;								
	3(HYD)	1	-1278	-7	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	4(OPE)	2	-673	202	0.0	0.0	0.0	0.0019	-0.0000	0.2219
	6(OPE)	1	-705	212	0.0	0.0	0.0	0.0030	-0.0000	0.7152
	8(OPE)	7	-814	-244	0.0	0.0	0.0	0.0063	-0.0000	-0.2274
	10(SUS)	-0	-740	3	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	11(SUS)	-0	-559	6	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	MAX	7/L8	-	-				0.0063/L8	-	0.7152/L6
			1278/L3	244/L8					0.0000/L3	
14100		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	-0	-1247	-3	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	-7	-742	222	0.0	0.0	0.0	-0.0051	-0.0000	0.1661
	6(OPE)	-7	-733	220	0.0	0.0	0.0	-0.0183	-0.0000	0.5360
	8(OPE)	2	-704	-211	0.0	0.0	0.0	0.0017	-0.0000	-0.1702
	10(SUS)	0	-724	1	0.0	0.0	0.0	0.0000	-0.0000	0.0000

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 Various Load Cases

Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	11(SUS)	0	-548	2	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	MAX	-7/L6	-	222/L4				-	-	
			1247/L3					0.0183/L6	0.0000/L3	0.5360/L6
14120		TYPE=Rigid +Y;								
	3(HYD)	0	-1266	-1	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	4(OPE)	-8	-730	219	0.0	0.0	0.0	-0.0039	-0.0000	0.1105
	6(OPE)	-11	-732	219	0.0	0.0	0.0	-0.0184	-0.0000	0.3572
	8(OPE)	-1	-740	-222	0.0	0.0	0.0	-0.0008	-0.0000	-0.1133
	10(SUS)	-0	-735	0	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	11(SUS)	-0	-556	1	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	MAX	-11/L6	-	-				-	-	
			1266/L3	222/L8				0.0184/L6	0.0000/L3	0.3572/L6
14140		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	-0	-1218	-0	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	-6	-708	212	0.0	0.0	0.0	-0.0016	-0.0000	0.0551
	6(OPE)	-10	-707	212	0.0	0.0	0.0	-0.0086	-0.0000	0.1785
	8(OPE)	-3	-705	-212	0.0	0.0	0.0	-0.0008	-0.0000	-0.0565
	10(SUS)	0	-707	0	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	11(SUS)	0	-535	0	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	MAX	-10/L6	-	212/L4				-	-	
			1218/L3					0.0086/L6	0.0000/L3	0.1785/L6
14160		TYPE=Rigid +Y; Rigid Z;								
	3(HYD)	0	-1395	-0	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	4(OPE)	-1	-809	-2062	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	6(OPE)	-6	-809	-2839	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000

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Node	Load Case	FX lb.	FY lb.	FZ lb.	MX ft.lb.	MY ft.lb.	MZ ft.lb.	DX in.	DY in.	DZ in.
	8(OPE)	-1	-810	2666	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	10(SUS)	-0	-809	0	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	11(SUS)	-0	-613	0	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	MAX	-6/L6	1395/L3	2839/L6				0.0000/L6	0.0000/L3	0.0000/L6
14180		TYPE=Rigid +Y; Rigid X;								
	3(HYD)	-0	-727	-0	0.0	0.0	0.0	-0.0000	-0.0000	-0.0000
	4(OPE)	1	-422	-127	0.0	0.0	0.0	0.0000	-0.0000	-0.0571
	6(OPE)	3	-422	-126	0.0	0.0	0.0	0.0000	-0.0000	-0.1812
	8(OPE)	0	-422	126	0.0	0.0	0.0	0.0000	-0.0000	0.0591
	10(SUS)	0	-422	0	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	11(SUS)	0	-319	0	0.0	0.0	0.0	0.0000	-0.0000	0.0000
	MAX	3/L6	727/L3	127/L4				0.0000/L6	0.0000/L3	0.1812/L6
14220		TYPE=Rigid +Y; Rigid X w/gap;								
	3(HYD)	2	-530	-30	0.0	0.0	0.0	0.0000	-0.0000	-0.0000
	4(OPE)	56	-16	5	0.0	0.0	0.0	0.1181	-0.0000	0.3945
	6(OPE)	73	0	0	0.0	0.0	0.0	0.1181	1.2550	1.2655
	8(OPE)	-44	-618	-180	0.0	0.0	0.0	-0.0991	-0.0000	-0.4046
	10(SUS)	-4	-306	14	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	11(SUS)	-7	-231	29	0.0	0.0	0.0	-0.0000	-0.0000	0.0000
	MAX	73/L6	618/L8	180/L8				0.1181/L4	1.2550/L6	1.2655/L6

Job Name: BIN-001 REV01

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STRESS SUMMARY (LEGACY) REPORT: Highest Stresses Mini Statement

Various Load Cases

LOAD CASE DEFINITION KEY

- CASE 3 (HYD) WW+HP+H
- CASE 10 (SUS) W+P1+H
- CASE 11 (SUS) WNC+H
- CASE 22 (OCC) L22=L17+L10
- CASE 23 (OCC) L23=L18+L10
- CASE 24 (OCC) L24=L19+L10
- CASE 25 (OCC) L25=L20+L10
- CASE 26 (OCC) L26=L21+L10
- CASE 27 (EXP) L27=L4-L10
- CASE 28 (EXP) L28=L6-L10
- CASE 29 (EXP) L29=L8-L10
- CASE 30 (EXP) L30=L6-L8

Note: This report indicates generic stresses summary. Currently, CAESAR II does not have summary for code-defined stresses.

Piping Code: B31.3 = B31.3 -2016, Jan 31, 2017

CODE STRESS CHECK PASSED : LOADCASE 3 (HYD) WW+HP+H

Highest Stresses: (lb./sq.in.) LOADCASE 3 (HYD) WW+HP+H

Ratio (%):	29.7	@Node 10620	
Code Stress:	10384.5	Allowable Stress:	35000.0
Axial Stress:	2283.0	@Node 13998	
Bending Stress:	12309.8	@Node 10640	
Torsion Stress:	476.8	@Node 1078	
Hoop Stress:	4668.1	@Node 11320	
Max Stress Intensity:	13224.3	@Node 10640	

CODE STRESS CHECK PASSED : LOADCASE 10 (SUS) W+P1+H

Highest Stresses: (lb./sq.in.) LOADCASE 10 (SUS) W+P1+H

Ratio (%):	83.9	@Node 10620	
Code Stress:	16784.7	Allowable Stress:	20000.0
Axial Stress:	2967.3	@Node 13999	
Bending Stress:	19241.2	@Node 10640	
Torsion Stress:	963.2	@Node 1078	
Hoop Stress:	5967.7	@Node 11320	
Max Stress Intensity:	20561.8	@Node 10640	

CODE STRESS CHECK PASSED : LOADCASE 11 (SUS) WNC+H

Highest Stresses: (lb./sq.in.) LOADCASE 11 (SUS) WNC+H

Ratio (%):	74.1	@Node 10620	
Code Stress:	14813.2	Allowable Stress:	20000.0
Axial Stress:	331.1	@Node 8100	
Bending Stress:	18088.1	@Node 10640	
Torsion Stress:	992.1	@Node 1078	
Hoop Stress:	0.0	@Node 20	
Max Stress Intensity:	18103.2	@Node 10640	

CODE STRESS CHECK PASSED : LOADCASE 22 (OCC) L22=L17+L10

Highest Stresses: (lb./sq.in.) LOADCASE 22 (OCC) L22=L17+L10

Ratio (%):	67.4	@Node 10620	
Code Stress:	17924.9	Allowable Stress:	26600.0
Axial Stress:	2970.5	@Node 14160	
Bending Stress:	20821.0	@Node 10640	
Torsion Stress:	1053.2	@Node 1078	
Hoop Stress:	5967.7	@Node 11320	
Max Stress Intensity:	22171.9	@Node 10640	

Job Name: BIN-001 REV01

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STRESS SUMMARY (LEGACY) REPORT: Highest Stresses Mini Statement

Various Load Cases

LOAD CASE DEFINITION KEY

CODE STRESS CHECK PASSED : LOADCASE 23 (OCC) L23=L18+L10

Highest Stresses: (lb./sq.in.) LOADCASE 23 (OCC) L23=L18+L10

Ratio (%):	67.3	@Node	10620	
Code Stress:	17904.1	Allowable Stress:		26600.0
Axial Stress:	3008.8	@Node	13999	
Bending Stress:	20966.0	@Node	10640	
Torsion Stress:	896.3	@Node	7078	
Hoop Stress:	5967.7	@Node	11320	
Max Stress Intensity:	22298.0	@Node	10640	

CODE STRESS CHECK PASSED : LOADCASE 24 (OCC) L24=L19+L10

Highest Stresses: (lb./sq.in.) LOADCASE 24 (OCC) L24=L19+L10

Ratio (%):	63.9	@Node	10620	
Code Stress:	17003.5	Allowable Stress:		26600.0
Axial Stress:	3067.3	@Node	14160	
Bending Stress:	19729.7	@Node	10640	
Torsion Stress:	952.7	@Node	1078	
Hoop Stress:	5967.7	@Node	11320	
Max Stress Intensity:	21186.7	@Node	10640	

CODE STRESS CHECK PASSED : LOADCASE 25 (OCC) L25=L20+L10

Highest Stresses: (lb./sq.in.) LOADCASE 25 (OCC) L25=L20+L10

Ratio (%):	63.9	@Node	10620	
Code Stress:	17003.8	Allowable Stress:		26600.0
Axial Stress:	2963.1	@Node	14160	
Bending Stress:	19730.1	@Node	10640	
Torsion Stress:	974.8	@Node	1078	
Hoop Stress:	5967.7	@Node	11320	
Max Stress Intensity:	21187.3	@Node	10640	

CODE STRESS CHECK PASSED : LOADCASE 26 (OCC) L26=L21+L10

Highest Stresses: (lb./sq.in.) LOADCASE 26 (OCC) L26=L21+L10

Ratio (%):	63.2	@Node	10620	
Code Stress:	16808.3	Allowable Stress:		26600.0
Axial Stress:	2962.2	@Node	13998	
Bending Stress:	19275.6	@Node	10640	
Torsion Stress:	831.7	@Node	1078	
Hoop Stress:	5967.7	@Node	11320	
Max Stress Intensity:	20596.9	@Node	10640	

CODE STRESS CHECK PASSED : LOADCASE 27 (EXP) L27=L4-L10

Highest Stresses: (lb./sq.in.) LOADCASE 27 (EXP) L27=L4-L10

Ratio (%):	29.8	@Node	14020	
Code Stress:	10691.7	Allowable Stress:		35869.6
Axial Stress:	780.0	@Node	10540	
Bending Stress:	10413.8	@Node	14020	
Torsion Stress:	756.5	@Node	11078	
Hoop Stress:	0.0	@Node	20	
Max Stress Intensity:	19266.8	@Node	14020	

CODE STRESS CHECK PASSED : LOADCASE 28 (EXP) L28=L6-L10

Highest Stresses: (lb./sq.in.) LOADCASE 28 (EXP) L28=L6-L10

Ratio (%):	58.4	@Node	14020	
Code Stress:	20953.0	Allowable Stress:		35869.6
Axial Stress:	919.6	@Node	10120	
Bending Stress:	20622.1	@Node	14020	
Torsion Stress:	1297.1	@Node	11078	

Job Name: BIN-001 REV01

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STRESS SUMMARY (LEGACY) REPORT: Highest Stresses Mini Statement

Various Load Cases

LOAD CASE DEFINITION KEY

Hoop Stress: 0.0 @Node 20
Max Stress Intensity: 38023.2 @Node 14020

CODE STRESS CHECK PASSED : LOADCASE 29 (EXP) L29=L8-L10

Highest Stresses: (lb./sq.in.) LOADCASE 29 (EXP) L29=L8-L10

Ratio (%): 30.2 @Node 14020
Code Stress: 10845.0 Allowable Stress: 35869.6
Axial Stress: 1068.0 @Node 8120
Bending Stress: 10477.5 @Node 14020
Torsion Stress: 706.6 @Node 11078
Hoop Stress: 0.0 @Node 20
Max Stress Intensity: 19434.4 @Node 14020

CODE STRESS CHECK PASSED : LOADCASE 30 (EXP) L30=L6-L8

Highest Stresses: (lb./sq.in.) LOADCASE 30 (EXP) L30=L6-L8

Ratio (%): 88.6 @Node 14020
Code Stress: 31798.0 Allowable Stress: 35869.6
Axial Stress: 1976.1 @Node 10120
Bending Stress: 31099.6 @Node 14020
Torsion Stress: 2003.7 @Node 11078
Hoop Stress: 0.0 @Node 20
Max Stress Intensity: 57457.6 @Node 14020