GROUP # CASE 2

BENDING AND SHEAR STRESSES

	Mmax kip-ft	Spost in^3	Sweak in	Shear Vpre	Pipe Area in^2	fcs ksi	Axial Vpre	Area y in^2	fa ksi
Left Support	52.91	99.01	10.94	2.61	21.21	0.14	2.78	21.21	0.13
Right Support	52.91	99.01	10.94	2.61	21.21	0.14	2.78	21.21	0.13

RESULTS

	Fb ksi	Fv ksi	Fa ksi	Cc	Rweak	KLR	Fa'	Eqn. S-17 CSR	Eqn. S-18 CSR	Eqn. S-19 CSR	MAX CSR
Left Support	27.72	13.86	9.43	118.75	4.77	120.60	10.23	0.498	0.403	0.476	0.498
Right Support	27.72	13.86	9.43	118.75	4.77	120.60	9.43	0.403	0.414	0.409	0.414

	Length	Pipe or Angle	Diagonal Area	Rmin	Chord Yield Str.	Max Axial Force	Column Slenderness	kL/Rmin	fc (sub)	Fa (sub)	Result C/D
Left Diagonal	0.00	PIPE	0.00	999.00	0	0.00	999.00	0.00	999.00	999.00	1.00
Right Diagonal	0.00	PIPE	0.00	999.00	0	0.00	999.00	0.00	999.00	999.00	1.00

Fb Calculation

	Term 1	Term 2	Fb ksi
Eqn. S-17	0.00	0.408	0.00
Eqn. S-18	0.516	0.408	0.00
Eqn. S-19	0.516	0.408	0.00
Right Support	Term 1	Term 2	Fb ksi
Eqn. S-17	0.00	0.408	0.00
Eqn. S-18	0.516	0.408	0.00
Eqn. S-19	0.516	0.408	0.00

	Compact (in)	Noncompact (in)	Slender
Left Span	27.72	51.80	51.80
Right Span	27.72	51.80	51.80

GROUP # CASE 1

BENDING AND SHEAR STRESSES

	Mmax kip-ft	Spost in^3	Sweak in	Shear Vpre	Pipe Area in^2	fcs ksi	Axial Vpre	Area y in^2	fa ksi
Left Support	63.39	99.01	11.05	2.63	21.21	0.14	4.03	21.21	0.19
Right Support	54.04	99.01	9.60	3.07	21.21	0.17	3.63	21.21	0.18

RESULTS

	Fb ksi	Fv ksi	Fa ksi	Cc	Rweak	KLR	Fa'	Eqn. S-17 CSR	Eqn. S-18 CSR	Eqn. S-19 CSR	MAX CSR
Left Support	27.72	13.86	9.43	118.75	4.77	120.60	10.23	0.598	0.484	0.617	0.617
Right Support	27.72	13.86	9.43	118.75	4.77	120.60	9.43	0.501	0.500	0.490	0.500

	Length	Pipe or Angle	Diagonal Area	Rmin	Chord Yield Str.	Max Axial Force	Column Slenderness	kL/Rmin	fc (sub)	Fa (sub)	Result C/D
Left Diagonal	0.00	PIPE	0.00	999.00	0	0.00	999.00	0.00	999.00	999.00	1.00
Right Diagonal	0.00	PIPE	0.00	999.00	0	0.00	999.00	0.00	999.00	999.00	1.00

Fb Calculation

	Term 1	Term 2	Fb ksi
Eqn. S-17	0.516	0.408	0.00
Eqn. S-18	0.516	0.408	0.00
Eqn. S-19	0.516	0.408	0.00
Right Support	Term 1	Term 2	Fb ksi
Eqn. S-17	0.516	0.408	0.00
Eqn. S-18	0.516	0.408	0.00
Eqn. S-19	0.516	0.408	0.00

	Compact (in)	Noncompact (in)	Slender
Left Span	27.72	51.80	51.80
Right Span	27.72	51.80	51.80

GROUP # CASE 3

BENDING AND SHEAR STRESSES

	Mmax kip-ft	Spost in^3	Sweak in	Shear Vpre	Pipe Area in^2	fcs ksi	Axial Vpre	Area y in^2	fa ksi
Left Support	35.14	99.01	6.49	1.74	21.21	0.08	2.63	21.21	0.12
Right Support	32.84	99.01	5.71	1.88	21.21	0.07	3.61	21.21	0.16

RESULTS

	Fb ksi	Fv ksi	Fa ksi	Cc	Rweak	KLR	Fa'	Eqn. S-17 CSR	Eqn. S-18 CSR	Eqn. S-19 CSR	MAX CSR
Left Support	27.72	13.86	9.43	118.75	4.77	120.60	10.23	0.29	0.26	0.36	0.36
Right Support	27.72	13.86	9.43	118.75	4.77	120.60	9.43	0.31	0.23	0.23	0.31

	Length	Pipe or Angle	Diagonal Area	Rmin	Chord Yield Str.	Max Axial Force	Column Slenderness	kL/Rmin	fc (sub)	Fa (sub)	Result C/D
Left Diagonal	0.00	PIPE	0.00	999.00	0	0.00	999.00	0.00	999.00	999.00	1.00
Right Diagonal	0.00	PIPE	0.00	999.00	0	0.00	999.00	0.00	999.00	999.00	1.00

Fb Calculation

	Term 1	Term 2	Fb ksi
Eqn. S-17	0.516	0.408	0.00
Eqn. S-18	0.516	0.408	0.00
Eqn. S-19	0.516	0.408	0.00
Right Support	Term 1	Term 2	Fb ksi
Eqn. S-17	0.516	0.408	0.00
Eqn. S-18	0.516	0.408	0.00
Eqn. S-19	0.516	0.408	0.00

	Compact (in)	Noncompact (in)	Slender
Left Span	27.72	51.80	51.80
Right Span	27.72	51.80	51.80

Left Post	Max. Axial Force in Diag. =	0.00
Right Post	Max. Axial Force in Diag. =	0.00
Max. Overall =		0.00

Left Post max CSR	0.36
Right Post max CSR	0.69
Left diag max CSR	1.00
Right diag max CSR	1.00

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