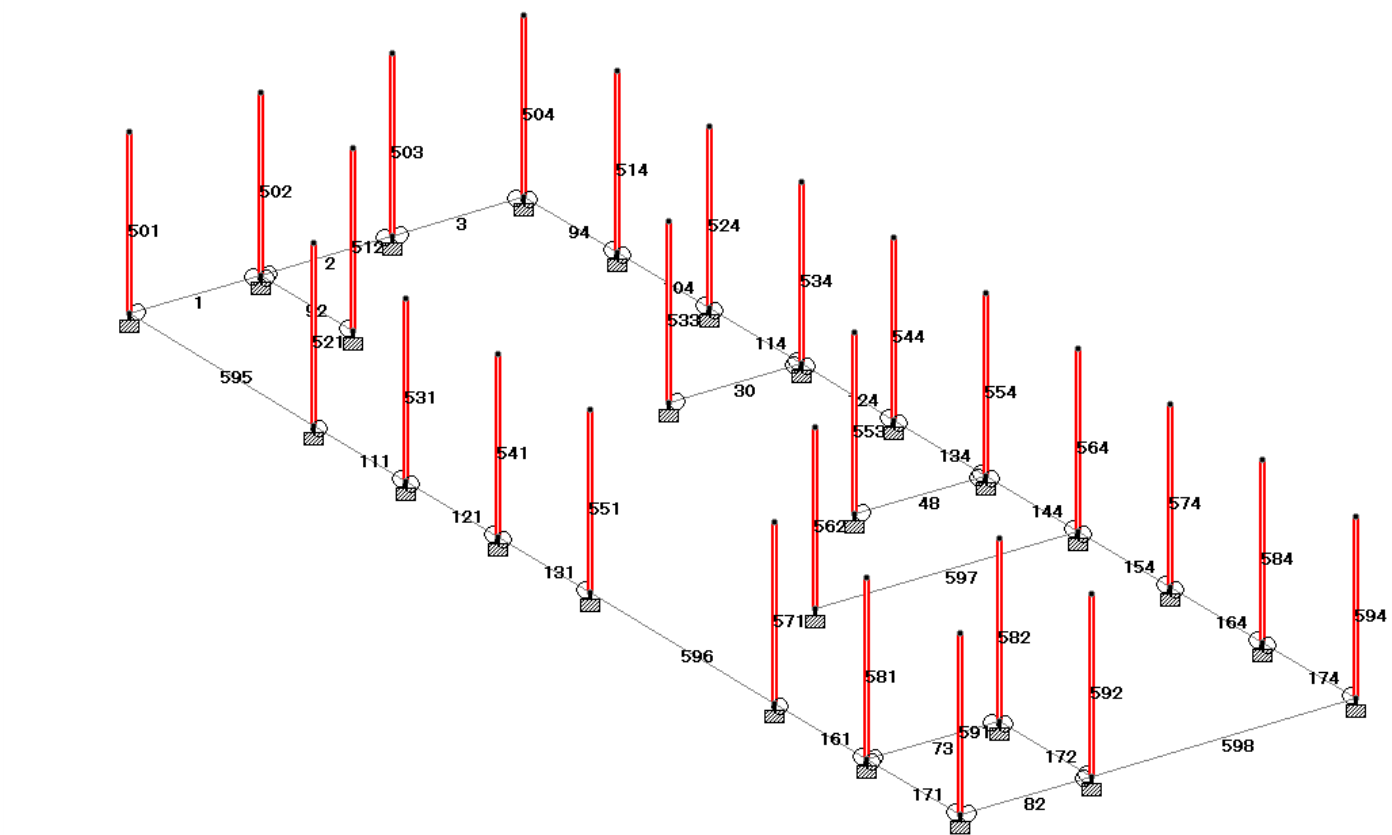


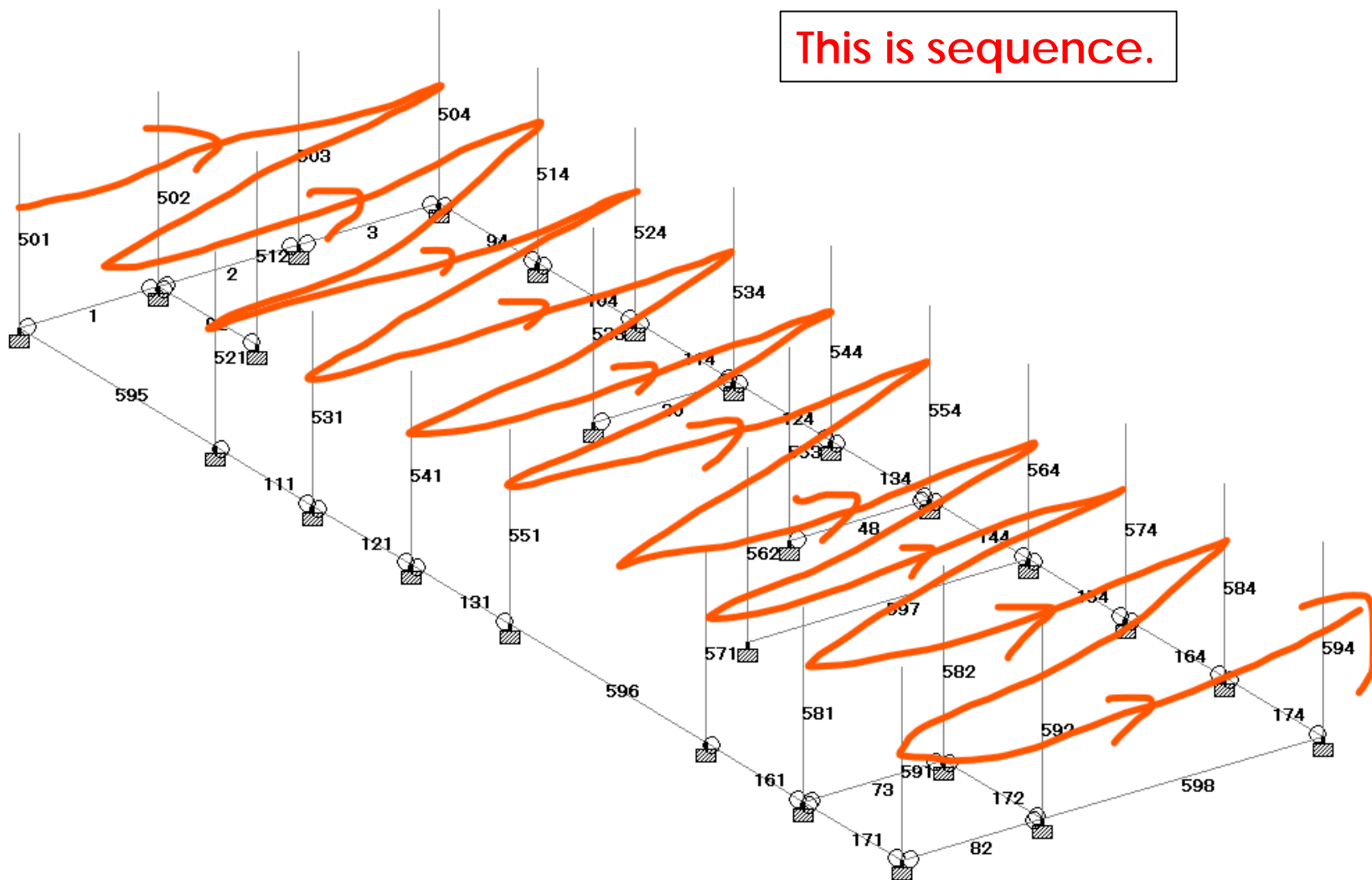
PARAMETER 3

- Member : 501
- Member : 502
- Member : 503
- Member : 504
- Member : 512
- Member : 514
- Member : 521
- Member : 524
- Member : 531
- Member : 533
- Member : 534
- Member : 541
- Member : 544
- Member : 551
- Member : 553
- Member : 554
- Member : 562
- Member : 564
- Member : 571
- Member : 574
- Member : 581
- Member : 582
- Member : 584
- Member : 591
- Member : 592
- Member : 594

ANALYSIS RESULTS



This is sequence.



1478	Member :	503	1680	Member :	504
1479	Member No:	503	1681	Member No:	504
1480	Profile:	ST HP16X88	1682	Profile:	ST W40X655
1481	Status:	PASS	1683	Status:	PASS
1482	Location:	0.00	1684	Location:	0.00
1483	Pz:	1000. C	1685	Pz:	1000. C
1484	Tz:	0.000	1686	Tz:	0.000
1485	My:	0.0	1687	My:	0.000
1486	SLENDERNESS		1688	SLENDERNESS	
1487	Actual Slenderness Ratio :	53.522	1689	Actual Slenderness Ratio :	51.047
1488	Allowable Slenderness Ratio :	200.000	1690	Allowable Slenderness Ratio :	200.000
1489	LOC :	0.00	1691	LOC :	0.00
1490	STRENGTH CHECKS		1692	STRENGTH CHECKS	
1491	Critical L/C :	2	1693	Critical L/C :	2
1492	Loc :	0.00	1694	Loc :	0.00
1493	Ratio :	0.359(PASS)	1695	Ratio :	0.047(PASS)
1494	Condition :	Cl.E3	1696	Condition :	Cl.E3
1495	SECTION PROPERTIES (LOC: 0.00, PROPERTIES UNIT: CM)		1697	SECTION PROPERTIES (LOC: 0.00, PROPERTIES UNIT: CM)	
1496	Ag :	1.665E+02	1698	Ag :	1.245E+03
1497	Ixx :	4.620E+04	1699	Ixx :	2.356E+06
1498	Sxx+ :	2.378E+03	1700	Sxx+ :	4.255E+04
1499	Syy+ :	7.285E+02	1701	Syy+ :	5.566E+03
1500	Cw :	5.094E+06	1702	Cw :	3.068E+08
1501	MATERIAL PROPERTIES		1703	MATERIAL PROPERTIES	
1502	Fyld:	345000.000	1704	Fyld:	345000.000
1503	Fu:	449999.969	1705	Fu:	449999.969
1504	Actual Member Length:	5.000	1706	Actual Member Length:	5.000
1505	Design Parameters		1707	Design Parameters	
1506	Kx:	1.00	1708	Kx:	1.00
1507	Ky:	1.00	1709	Ky:	1.00
1508	NSF:	1.00	1710	NSF:	1.00
1509	SLF:	1.00	1711	SLF:	1.00
1510	CSP:	0.30	1712	CSP:	0.30
1511	COMPRESSION CLASSIFICATION (L/C: 2 LOC: 196.85)		1713	COMPRESSION CLASSIFICATION (L/C: 2 LOC: 196.85)	
1512	λ	λ_p	1714	λ	λ_p
1513	Flange: Slender	14.54	1715	Flange: NonSlender	2.39
1514	Web : NonSlender	26.33	1716	Web : NonSlender	18.54
1515	FLEXURE CLASSIFICATION (L/C: 2 LOC: 196.85)		1717	FLEXURE CLASSIFICATION (L/C: 2 LOC: 196.85)	
1516	λ	λ_p	1718	λ	λ_p
1517	Flange: NonCompact	14.54	1719	Flange: Compact	2.39
1518	Web : Compact	26.33	1720	Web : Compact	18.54
1519	(2020_STAAD_VERIFICATION)			(2020_STAAD_VERIFICATION)	

1875 Member : 512
1876
1877 Member No: 512 Profile: ST C12X20 (AISC SECTIONS)
1878 Status: FAIL Ratio: 15.011 Loadcase: 2
1879 Location: 0.00 Ref: Slenderness
1880 Pz: 1000. C Vy: 0.000 Vx: 0.000
1881 Tz: 0.000 My: 0.000 Mx: 0.000

1882
1883 SLENDERNESS
1884 Actual Slenderness Ratio : 247.055
1885 Allowable Slenderness Ratio : 200.000 LOC : 0.00

1886
1887 STRENGTH CHECKS
1888 Critical L/C : 2 Ratio : 15.011(FAIL)
1889 Loc : 0.00 Condition : C1.E3

1890
1891 SECTION PROPERTIES (LOC: 0.00, PROPERTIES UNIT: CM)
1892 Ag : 3.923E+01 Axx : 1.901E+01 Ayy : 2.183E+01
1893 Ixx : 5.369E+03 Iyy : 1.607E+02 J : 1.435E+01
1894 Sxx+ : 3.523E+02 Sxx- : 3.523E+02 Zxx : 4.195E+02
1895 Syy+ : 2.934E+01 Syy- : 8.066E+01 Zyy : 5.686E+01
1896 **Cw : 3.068E+08** x0 : -4.208E+00 y0 : 0.000E+00

1897
1898 MATERIAL PROPERTIES
1899 Fyld: 345000.000 Fu: 449999.969

1900
1901 Actual Member Length: 5.000
1902 Design Parameters (Rolled)
1903 Kx: 1.00 Ky: 1.00 NSF: 1.00 SLF: 1.00 CSP: 0.30

1904
1905 COMPRESSION CLASSIFICATION (L/C: 2 LOC: 196.85)
1906 λ λ_p λ_r CASE
1907 Flange: NonSlender 5.87 N/A 13.48 Table.4.1a.Case1
1908 Web : Slender 39.00 N/A 35.87 Table.4.1a.Case5

1909
1910 FLEXURE CLASSIFICATION (L/C: 2 LOC: 196.85)
1911 λ λ_p λ_r CASE
1912 Flange: Compact 5.87 9.15 24.08 Table.4.1b.Case10
1913 Web : Compact 39.00 90.53 137.24 Table.4.1b.Case15

1914
1915 (2020_STAAD_VERIFICATION) -- PAGE NO. 38

Member : 514
Member No: 514 Profile: ST C12X30 (AISC SECTIONS)
Status: FAIL Ratio: 11.317 Loadcase: 2
Location: 0.00 Ref: Slenderness
Pz: 1000. C Vy: 0.000 Vx: 0.000
Tz: 0.000 My: 0.000 Mx: 0.000

SLENDERNESS
Actual Slenderness Ratio : 258.220
Allowable Slenderness Ratio : 200.000 LOC : 0.00

STRENGTH CHECKS
Critical L/C : 2 Ratio : 11.317(FAIL)
Loc : 0.00 Condition : C1.E3

SECTION PROPERTIES (LOC: 0.00, PROPERTIES UNIT: CM)
Ag : 5.684E+01 Axx : 2.049E+01 Ayy : 3.948E+01
Ixx : 6.743E+03 Iyy : 2.131E+02 J : 3.284E+01
Sxx+ : 4.425E+02 Sxx- : 4.425E+02 Zxx : 5.539E+02
Syy+ : 3.517E+01 Syy- : 1.070E+02 Zyy : 7.079E+01
Cw : 3.068E+08 x0 : -3.453E+00 y0 : 0.000E+00

MATERIAL PROPERTIES
Fyld: 345000.000 Fu: 449999.969

Actual Member Length: 5.000
Design Parameters (Rolled)
Kx: 1.00 Ky: 1.00 NSF: 1.00 SLF: 1.00 CSP: 0.30

COMPRESSION CLASSIFICATION (L/C: 2 LOC: 196.85)
 λ λ_p λ_r CASE
Flange: NonSlender 6.33 N/A 13.48 Table.4.1a.Case1
Web : NonSlender 21.56 N/A 35.87 Table.4.1a.Case5

FLEXURE CLASSIFICATION (L/C: 2 LOC: 196.85)
 λ λ_p λ_r CASE
Flange: Compact 6.33 9.15 24.08 Table.4.1b.Case10
Web : Compact 21.56 90.53 137.24 Table.4.1b.Case15

(2020_STAAD_VERIFICATION) -- PAGE NO. 43

This is wrong value.

Same value as Member No.504