Table A23 List of the file, **eqellipse.stiffened.opm4.STAGS** .
This file, called "**eqellipse.STAGS**" for the specific case,
"**eqellipse**", must be called **WALLTHICK.STAGS** in the directory
from which the STAGS program is executed. The WALLTHICK.STAGS
file must exist at the time that SUBROUTINE WALL is executed.
(See Tables a21, a22, a35, a36). The file, "**eqellipse.STAGS**" is
generated automatically in SUBROUTINE STRUCT whenever the
GENOPT processor, OPTIMIZE, is executed **in the "ITYPE = 2"**
mode, that is, for the analysis of a "fixed" design.
==

     Number of shell segments (units)= 12

   Isogrid spacing,modulus,nu,density= 2.915400E+00 1.600000E+07
2.500000E-01 1.605492E-01

                Nodal points in Segment 1 =   13

                  Angle (X-coordinate)=
  0.000000E+00 8.156468E-02 2.993615E-01 5.914913E-01 8.873521E-01
  1.183329E+00 1.479094E+00 1.774868E+00 2.070654E+00 2.366536E+00
  2.658591E+00 2.876780E+00 2.958103E+00

 Meridional arc length (X-coordinate)=
  0.000000E+00 7.027998E-02 2.587581E-01 5.111271E-01 7.666907E-01
  1.022254E+00 1.277818E+00 1.533381E+00 1.788945E+00 2.044508E+00
  2.296877E+00 2.485355E+00 2.555635E+00

                  Shell skin thickness=
  1.245300E-01 1.256817E-01 1.287704E-01 1.329060E-01 1.370940E-01
  1.412820E-01 1.454700E-01 1.496580E-01 1.538460E-01 1.580340E-01
  1.621697E-01 1.652583E-01 1.664100E-01

        Stringer (or isogrid) height=
  6.676600E-01 6.660147E-01 6.616022E-01 6.556940E-01 6.497110E-01
  6.437280E-01 6.377450E-01 6.317620E-01 6.257790E-01 6.197960E-01
  6.138878E-01 6.094753E-01 6.078300E-01

       Stringer (or isogrid) thickness=
  9.053100E-02 9.053100E-02 9.053100E-02 9.053100E-02 9.053100E-02
  9.053100E-02 9.053100E-02 9.053100E-02 9.053100E-02 9.053100E-02
  9.053100E-02 9.053100E-02 9.053100E-02

                Nodal points in Segment 2 =   13

                  Angle (X-coordinate)=
  2.957441E+00 3.060174E+00 3.335835E+00 3.704859E+00 4.078567E+00
  4.452235E+00 4.825966E+00 5.199648E+00 5.573376E+00 5.947057E+00
  6.316089E+00 6.591689E+00 6.694480E+00

```
Meridional arc length (X-coordinate)=
 2.555635E+00   2.641534E+00   2.871897E+00    3.180351E+00    3.492708E+00
 3.805066E+00   4.117423E+00   4.429781E+00    4.742138E+00    5.054496E+00
 5.362949E+00   5.593312E+00   5.679211E+00

                    Shell skin thickness=
 1.664100E-01   1.658102E-01   1.642017E-01    1.620480E-01    1.598670E-01
 1.576860E-01   1.555050E-01   1.533240E-01    1.511430E-01    1.489620E-01
 1.468083E-01   1.451998E-01   1.446000E-01

           Stringer (or isogrid)  height=
 6.078300E-01   6.180449E-01   6.454393E-01    6.821200E-01    7.192650E-01
 7.564100E-01   7.935550E-01   8.307000E-01    8.678450E-01    9.049900E-01
 9.416707E-01   9.690651E-01   9.792800E-01

        Stringer (or isogrid)  thickness=
 9.053100E-02   9.053100E-02   9.053100E-02    9.053100E-02    9.053100E-02
 9.053100E-02   9.053100E-02   9.053100E-02    9.053100E-02    9.053100E-02
 9.053100E-02   9.053100E-02   9.053100E-02

             Nodal points in Segment  3 =   13

                    Angle (X-coordinate)=
 6.677820E+00   6.787783E+00   7.082718E+00    7.477612E+00    7.877512E+00
 8.277422E+00   8.677313E+00   9.077207E+00    9.477120E+00    9.877010E+00
 1.027192E+01   1.056684E+01   1.067682E+01

Meridional arc length (X-coordinate)=
 5.679211E+00   5.765109E+00   5.995471E+00    6.303923E+00    6.616279E+00
 6.928634E+00   7.240990E+00   7.553346E+00    7.865702E+00    8.178058E+00
 8.486509E+00   8.716871E+00   8.802770E+00

                    Shell skin thickness=
 1.446000E-01   1.450461E-01   1.462423E-01    1.478440E-01    1.494660E-01
 1.510880E-01   1.527100E-01   1.543320E-01    1.559540E-01    1.575760E-01
 1.591777E-01   1.603739E-01   1.608200E-01

           Stringer (or isogrid)  height=
 9.792800E-01   9.868953E-01   1.007318E+00    1.034664E+00    1.062356E+00
 1.090048E+00   1.117740E+00   1.145432E+00    1.173124E+00    1.200816E+00
 1.228162E+00   1.248585E+00   1.256200E+00

        Stringer (or isogrid)  thickness=
 9.053100E-02   9.053100E-02   9.053100E-02    9.053100E-02    9.053100E-02
 9.053100E-02   9.053100E-02   9.053100E-02    9.053100E-02    9.053100E-02
 9.053100E-02   9.053100E-02   9.053100E-02

             Nodal points in Segment  4 =   13
```

```
                    Angle (X-coordinate)=
 1.065673E+01   1.077948E+01   1.110865E+01   1.154942E+01   1.199575E+01
 1.244210E+01   1.288845E+01   1.333478E+01   1.378113E+01   1.422747E+01
 1.466823E+01   1.499742E+01   1.512016E+01

Meridional arc length (X-coordinate)=
 8.802770E+00   8.888667E+00   9.119027E+00   9.427476E+00   9.739830E+00
 1.005218E+01   1.036454E+01   1.067689E+01   1.098924E+01   1.130160E+01
 1.161005E+01   1.184041E+01   1.192630E+01

                    Shell skin thickness=
 1.608200E-01   1.592607E-01   1.550791E-01   1.494800E-01   1.438100E-01
 1.381400E-01   1.324700E-01   1.268000E-01   1.211300E-01   1.154600E-01
 1.098609E-01   1.056792E-01   1.041200E-01

          Stringer (or isogrid)  height=
 1.256200E+00   1.253389E+00   1.245852E+00   1.235760E+00   1.225540E+00
 1.215320E+00   1.205100E+00   1.194880E+00   1.184660E+00   1.174440E+00
 1.164348E+00   1.156811E+00   1.154000E+00

        Stringer (or isogrid)  thickness=
 9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02
 9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02
 9.053100E-02   9.053100E-02   9.053100E-02

             Nodal points in Segment  5 =   13

                    Angle (X-coordinate)=
 1.508829E+01   1.523219E+01   1.561814E+01   1.613492E+01   1.665823E+01
 1.718155E+01   1.770487E+01   1.822818E+01   1.875149E+01   1.927481E+01
 1.979159E+01   2.017753E+01   2.032144E+01

Meridional arc length (X-coordinate)=
 1.192630E+01   1.201220E+01   1.224257E+01   1.255102E+01   1.286338E+01
 1.317574E+01   1.348810E+01   1.380046E+01   1.411282E+01   1.442518E+01
 1.473364E+01   1.496400E+01   1.504990E+01

                    Shell skin thickness=
 1.041200E-01   1.040067E-01   1.037029E-01   1.032960E-01   1.028840E-01
 1.024720E-01   1.020600E-01   1.016480E-01   1.012360E-01   1.008240E-01
 1.004172E-01   1.001133E-01   1.000000E-01

          Stringer (or isogrid)  height=
 1.154000E+00   1.144381E+00   1.118585E+00   1.084044E+00   1.049066E+00
 1.014088E+00   9.791100E-01   9.441320E-01   9.091539E-01   8.741760E-01
 8.396352E-01   8.138389E-01   8.042200E-01

        Stringer (or isogrid)  thickness=
```

```
 9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02
 9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02
 9.053100E-02   9.053100E-02   9.053100E-02
```

Nodal points in Segment 6 = 13

Angle (X-coordinate)=
```
 2.026536E+01   2.044455E+01   2.092512E+01   2.156858E+01   2.222019E+01
 2.287180E+01   2.352341E+01   2.417502E+01   2.482663E+01   2.547823E+01
 2.612170E+01   2.660226E+01   2.678145E+01
```

Meridional arc length (X-coordinate)=
```
 1.504990E+01   1.513580E+01   1.536616E+01   1.567462E+01   1.598697E+01
 1.629933E+01   1.661169E+01   1.692405E+01   1.723640E+01   1.754876E+01
 1.785721E+01   1.808758E+01   1.817347E+01
```

Shell skin thickness=
```
 1.000000E-01   1.000445E-01   1.001640E-01   1.003240E-01   1.004860E-01
 1.006480E-01   1.008100E-01   1.009720E-01   1.011340E-01   1.012960E-01
 1.014560E-01   1.015754E-01   1.016200E-01
```

Stringer (or isogrid) height=
```
 8.042200E-01   8.169905E-01   8.512385E-01   8.970960E-01   9.435340E-01
 9.899721E-01   1.036410E+00   1.082848E+00   1.129286E+00   1.175724E+00
 1.221582E+00   1.255830E+00   1.268600E+00
```

Stringer (or isogrid) thickness=
```
 9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02
 9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02
 9.053100E-02   9.053100E-02   9.053100E-02
```

Nodal points in Segment 7 = 13

Angle (X-coordinate)=
```
 2.679548E+01   2.696524E+01   2.742050E+01   2.803009E+01   2.864739E+01
 2.926470E+01   2.988201E+01   3.049931E+01   3.111662E+01   3.173392E+01
 3.234351E+01   3.279877E+01   3.296853E+01
```

Meridional arc length (X-coordinate)=
```
 1.817347E+01   1.823699E+01   1.840732E+01   1.863539E+01   1.886634E+01
 1.909730E+01   1.932825E+01   1.955921E+01   1.979016E+01   2.002112E+01
 2.024919E+01   2.041952E+01   2.048303E+01
```

Shell skin thickness=
```
 1.016200E-01   1.026191E-01   1.052984E-01   1.088860E-01   1.125190E-01
 1.161520E-01   1.197850E-01   1.234180E-01   1.270510E-01   1.306840E-01
 1.342716E-01   1.369509E-01   1.379500E-01
```

Stringer (or isogrid) height=

```
1.268600E+00   1.258007E+00   1.229597E+00   1.191558E+00   1.153037E+00
1.114516E+00   1.075995E+00   1.037474E+00   9.989530E-01   9.604321E-01
9.223925E-01   8.939837E-01   8.833901E-01


     Stringer (or isogrid)  thickness=
9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02
9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02
9.053100E-02   9.053100E-02   9.053100E-02


          Nodal points in Segment  8 =   13


               Angle (X-coordinate)=
3.294721E+01   3.313707E+01   3.364623E+01   3.432798E+01   3.501837E+01
3.570876E+01   3.639914E+01   3.708953E+01   3.777991E+01   3.847030E+01
3.915207E+01   3.966122E+01   3.985107E+01


Meridional arc length (X-coordinate)=
2.048303E+01   2.053856E+01   2.068748E+01   2.088689E+01   2.108882E+01
2.129074E+01   2.149267E+01   2.169460E+01   2.189653E+01   2.209846E+01
2.229786E+01   2.244678E+01   2.250231E+01


               Shell skin thickness=
1.379500E-01   1.369617E-01   1.343111E-01   1.307620E-01   1.271680E-01
1.235740E-01   1.199800E-01   1.163860E-01   1.127920E-01   1.091980E-01
1.056489E-01   1.029984E-01   1.020100E-01


          Stringer (or isogrid)  height=
8.833901E-01   8.785008E-01   8.653888E-01   8.478320E-01   8.300531E-01
8.122740E-01   7.944950E-01   7.767161E-01   7.589370E-01   7.411581E-01
7.236013E-01   7.104893E-01   7.056000E-01


     Stringer (or isogrid)  thickness=
9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02
9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02
9.053100E-02   9.053100E-02   9.053100E-02


          Nodal points in Segment  9 =   13


               Angle (X-coordinate)=
3.977901E+01   4.002785E+01   4.069519E+01   4.158876E+01   4.249363E+01
4.339851E+01   4.430339E+01   4.520827E+01   4.611314E+01   4.701801E+01
4.791158E+01   4.857893E+01   4.882777E+01


Meridional arc length (X-coordinate)=
2.250231E+01   2.255784E+01   2.270677E+01   2.290617E+01   2.310810E+01
2.331003E+01   2.351196E+01   2.371389E+01   2.391582E+01   2.411775E+01
2.431715E+01   2.446608E+01   2.452161E+01


               Shell skin thickness=
```

```
1.020100E-01   1.020677E-01   1.022226E-01   1.024300E-01   1.026400E-01
1.028500E-01   1.030600E-01   1.032700E-01   1.034800E-01   1.036900E-01
1.038974E-01   1.040523E-01   1.041100E-01


          Stringer (or isogrid)  height=
7.056000E-01   7.022684E-01   6.933335E-01   6.813701E-01   6.692550E-01
6.571400E-01   6.450250E-01   6.329100E-01   6.207951E-01   6.086801E-01
5.967165E-01   5.877816E-01   5.844500E-01


      Stringer (or isogrid)  thickness=
9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02
9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02
9.053100E-02   9.053100E-02   9.053100E-02


            Nodal points in Segment 10 =  13


                 Angle (X-coordinate)=
4.874254E+01   4.907703E+01   4.997408E+01   5.117522E+01   5.239155E+01
5.360789E+01   5.482423E+01   5.604056E+01   5.725691E+01   5.847325E+01
5.967438E+01   6.057143E+01   6.090592E+01

Meridional arc length (X-coordinate)=
2.452161E+01   2.457714E+01   2.472606E+01   2.492546E+01   2.512739E+01
2.532931E+01   2.553124E+01   2.573317E+01   2.593509E+01   2.613702E+01
2.633642E+01   2.648534E+01   2.654087E+01


                 Shell skin thickness=
1.041100E-01   1.067110E-01   1.136862E-01   1.230260E-01   1.324840E-01
1.419420E-01   1.514000E-01   1.608580E-01   1.703160E-01   1.797740E-01
1.891138E-01   1.960891E-01   1.986900E-01


          Stringer (or isogrid)  height=
5.844500E-01   5.825624E-01   5.775002E-01   5.707220E-01   5.638580E-01
5.569940E-01   5.501300E-01   5.432660E-01   5.364020E-01   5.295380E-01
5.227598E-01   5.176976E-01   5.158100E-01


      Stringer (or isogrid)  thickness=
9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02
9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02
9.053100E-02   9.053100E-02   9.053100E-02


            Nodal points in Segment 11 =  13


                 Angle (X-coordinate)=
6.095361E+01   6.134404E+01   6.239109E+01   6.379308E+01   6.521282E+01
6.663256E+01   6.805230E+01   6.947204E+01   7.089178E+01   7.231151E+01
7.371350E+01   7.476056E+01   7.515099E+01


Meridional arc length (X-coordinate)=
```

```
  2.654087E+01   2.659085E+01   2.672488E+01   2.690434E+01   2.708607E+01
  2.726781E+01   2.744954E+01   2.763127E+01   2.781301E+01   2.799474E+01
  2.817420E+01   2.830823E+01   2.835821E+01


                    Shell skin thickness=
  1.986900E-01   1.959760E-01   1.886976E-01   1.789520E-01   1.690830E-01
  1.592140E-01   1.493450E-01   1.394761E-01   1.296070E-01   1.197381E-01
  1.099924E-01   1.027141E-01   1.000000E-01


           Stringer (or isogrid)  height=
  5.158100E-01   5.110899E-01   4.984314E-01   4.814821E-01   4.643180E-01
  4.471541E-01   4.299900E-01   4.128261E-01   3.956620E-01   3.784981E-01
  3.615486E-01   3.488902E-01   3.441700E-01


           Stringer (or isogrid)  thickness=
  9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02
  9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02
  9.053100E-02   9.053100E-02   9.053100E-02


             Nodal points in Segment 12 =   13


                     Angle (X-coordinate)=
  7.531520E+01   7.571658E+01   7.679298E+01   7.823426E+01   7.969379E+01
  8.115332E+01   8.261285E+01   8.407239E+01   8.553191E+01   8.699145E+01
  8.843273E+01   8.950913E+01   8.991051E+01


 Meridional arc length (X-coordinate)=
  2.835821E+01   2.840263E+01   2.852177E+01   2.868129E+01   2.884283E+01
  2.900438E+01   2.916592E+01   2.932747E+01   2.948901E+01   2.965055E+01
  2.981007E+01   2.992921E+01   2.997364E+01


                    Shell skin thickness=
  1.000000E-01   1.026892E-01   1.099013E-01   1.195580E-01   1.293370E-01
  1.391161E-01   1.488951E-01   1.586740E-01   1.684530E-01   1.782320E-01
  1.878887E-01   1.951008E-01   1.977900E-01


           Stringer (or isogrid)  height=
  3.441700E-01   3.475368E-01   3.565661E-01   3.686560E-01   3.808990E-01
  3.931421E-01   4.053851E-01   4.176280E-01   4.298711E-01   4.421140E-01
  4.542039E-01   4.632332E-01   4.666000E-01


           Stringer (or isogrid)  thickness=
  9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02
  9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02   9.053100E-02
  9.053100E-02   9.053100E-02   9.053100E-02
 ======================================================================
```