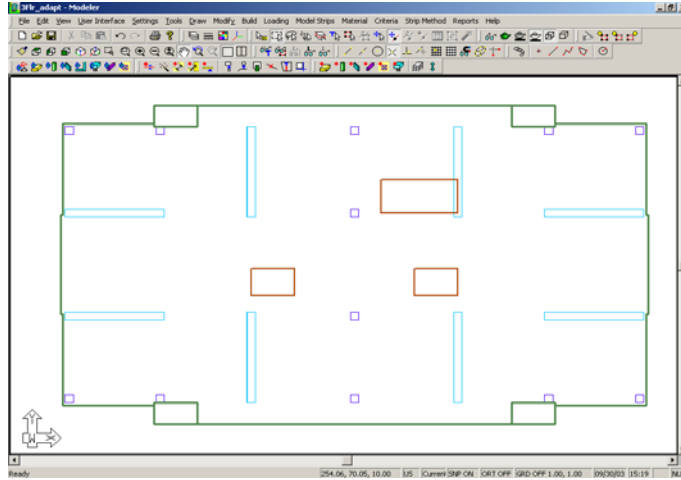
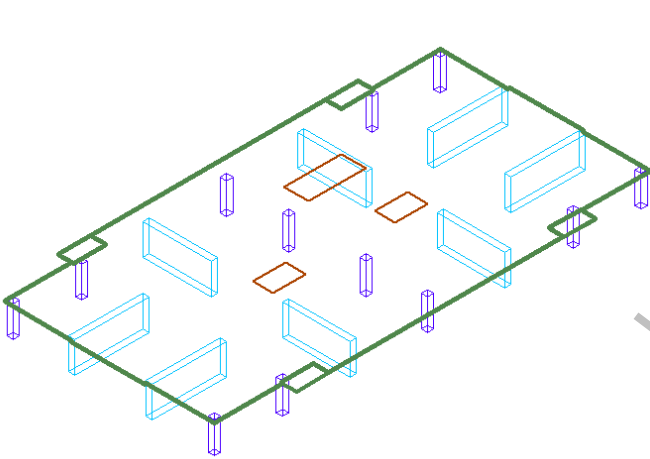


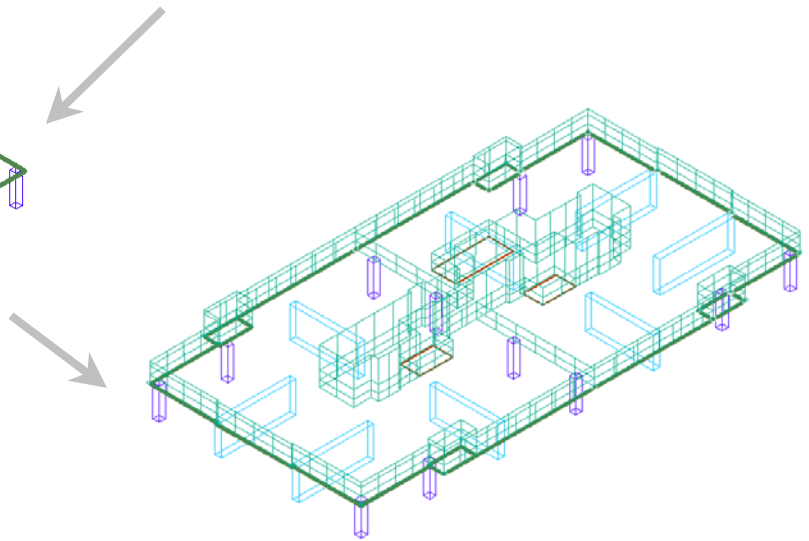
ADAPT-Modeler/PT DESIGN PROCESS



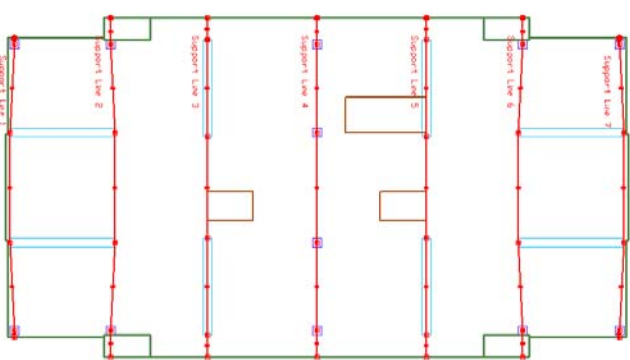
(a) **DWG file** is imported into **ADAPT-Modeler**.



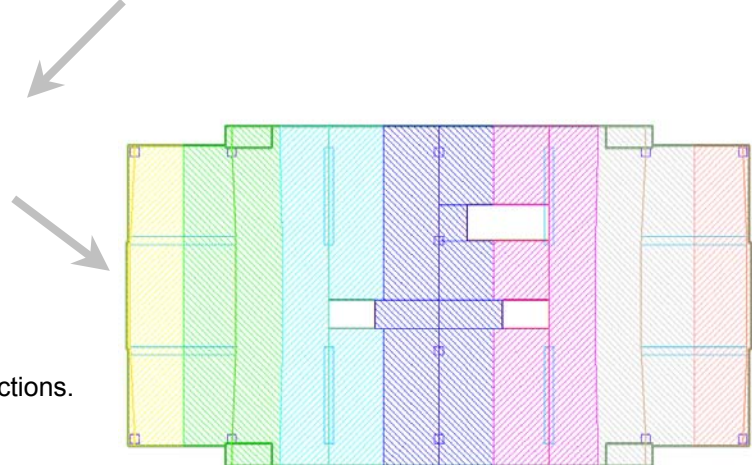
(b) Imported drawing is converted into **structural components**.



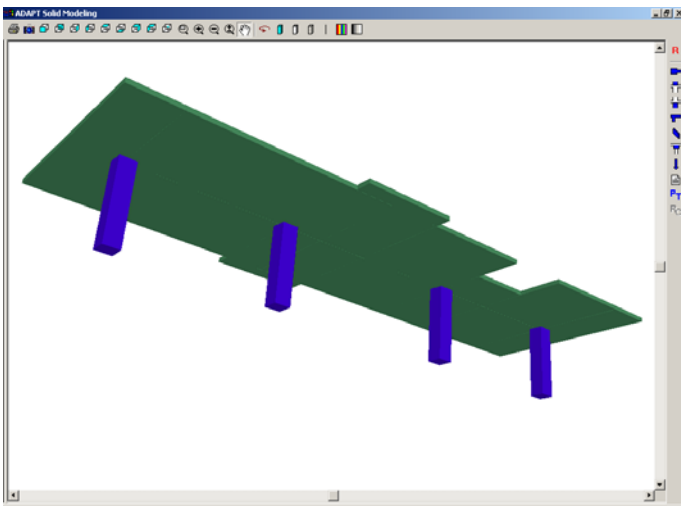
(c) **Loads** are applied on the structure and **load combinations** are created.



(d) **Support Lines** are generated in two orthogonal directions.



(e) **ADAPT-Modeler** automatically generates Design Strips (tributaries) for each user-defined **Support Line**.



(f) **Design Strips** are exported to **ADAPT-PT**.

Span	Class	L-7	w	P1	P2	a	b	c	M	F
1	CL	DL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.125
2	CL	DL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.125
3	CL	DL	0.234	0.00	0.00	0.00	5.00	0.00	0.00	
4	CL	DL	0.234	0.00	0.00	0.00	5.00	0.00	0.00	
5	CL	LL	0.500	0.00	0.00	0.00	5.00	0.00	0.00	
6	CL	LL	0.500	0.00	0.00	0.00	5.00	0.00	0.00	
7	1	DL	0.234	0.00	0.00	0.00	20.00	0.00	0.00	
8	1	DL	0.234	0.00	0.00	0.00	12.00	0.00	0.00	
9	1	DL	0.122	12.00	0.00	0.00	20.00	0.00	0.00	
10	1	LL	0.460	0.00	0.00	0.00	20.00	0.00	0.00	
11	1	LL	0.500	0.00	0.00	0.00	12.00	0.00	0.00	
12	1	LL	0.250	12.00	0.00	0.00	20.00	0.00	0.00	
13	2	DL	0.229	0.00	0.00	0.00	7.00	0.00	0.00	
14	2	DL	0.179	13.00	13.50	0.00	0.00	0.00	0.00	
15	2	DL	0.234	0.00	0.00	0.00	20.00	29.00	0.00	
16	2	DL	0.265	13.50	20.00	0.00	0.00	0.00	0.00	

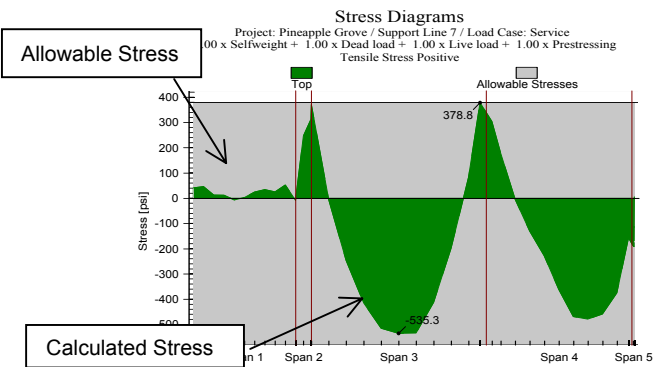
(g) All the information required to make an **ADAPT-PT run** is already entered in the **Input Editor**, and the program is ready to calculate.

Force	Left	Center	Right	P/A (in)	What 30%	Left	Center	Right	
1	270.1	5.00	1.50	9.00	1.25	70	270	270	315
2	270.1	9.00	1.00	9.00	1.25	50	315	270	315
3	270.1	9.00	1.00	8.50	1.25	70	315	270	270
CR	270.1	8.50	5.00	1.25	286	270	270	270	

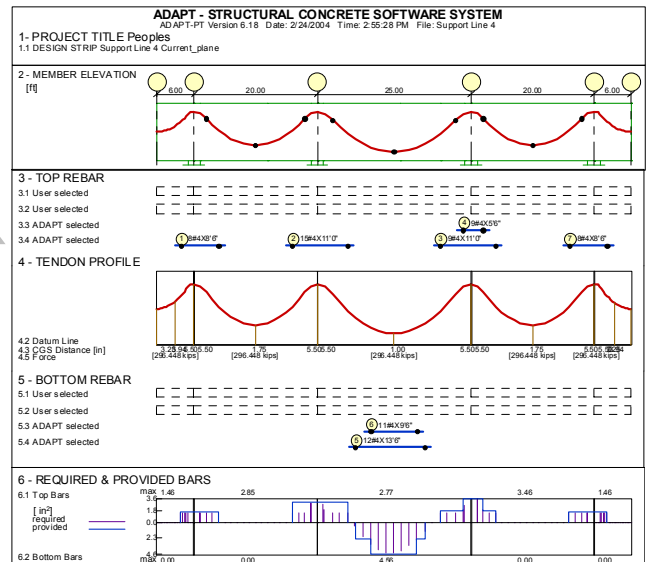
(h) The program finds a **Post-Tensioning Solution** based on the design parameters entered by the user. In the **Recycling Screen**, the user can quickly adjust the provided tendon profile or force to refine the solution.

Tendon Type	Average Force	Required Number	Selected Number
A	26.1	12	12
B	25.4	0	0
C	25.4	0	0

(i) The user can also find a solution by defining the **number of tendons** and their position along the support line.



(j) **Calculated stresses** along the Design Strip are displayed against the background of the **allowable stress envelope**.



(k) **Reinforcement** for each design strip is automatically selected by the program and displayed, specifying the **location**, **number** and **length** of bars.