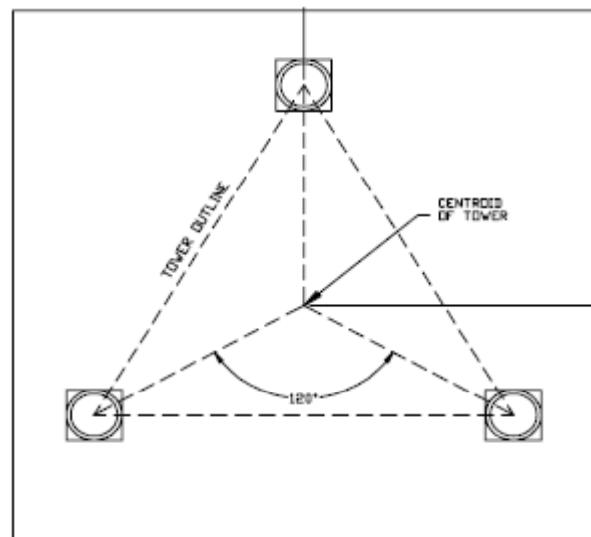




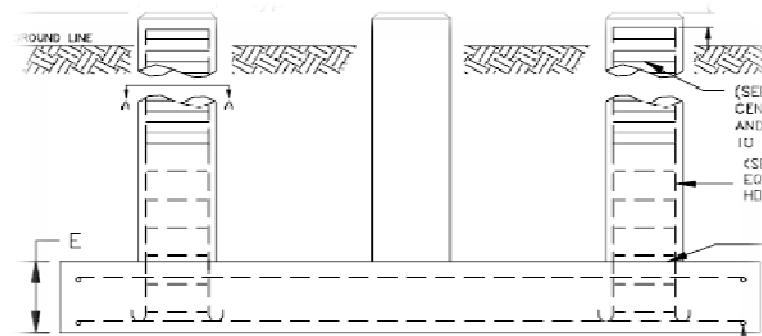
Project: Design of reinforced concrete tower foundations  
(communications, electrical, wind power, tanks)

Software: ADAPT-MAT

Solution: Intuitive modeling, analysis and design tool for reinforced concrete or post-tensioned mat foundations of any geometry or with any loading



Typical Plan View



Typical Elevation

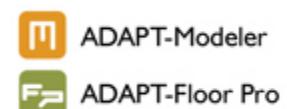


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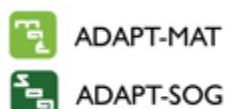
ADAPT-RC

ADAPT-PT



ADAPT-Modeler

ADAPT-Floor Pro

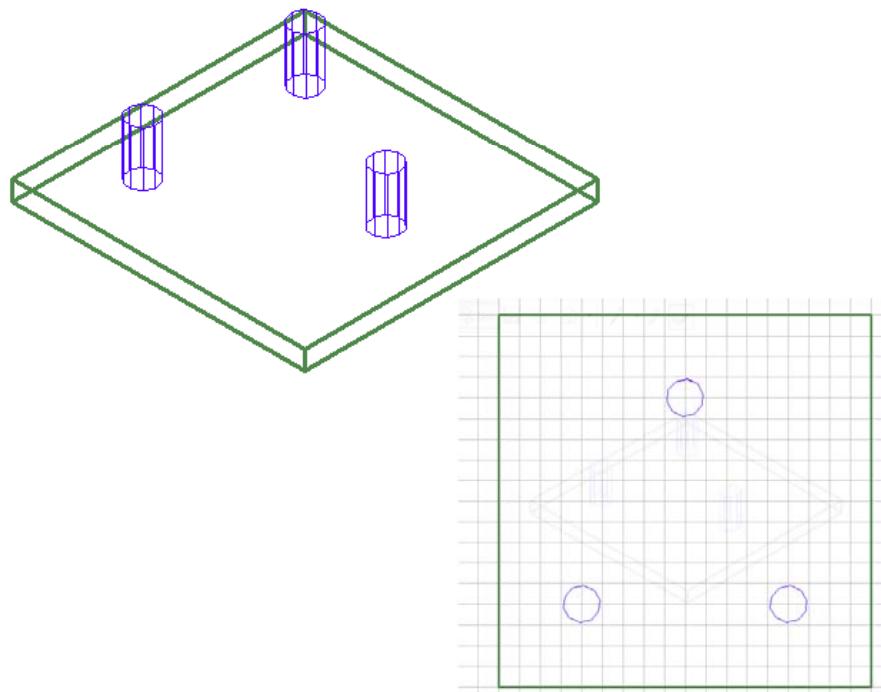


ADAPT-MAT

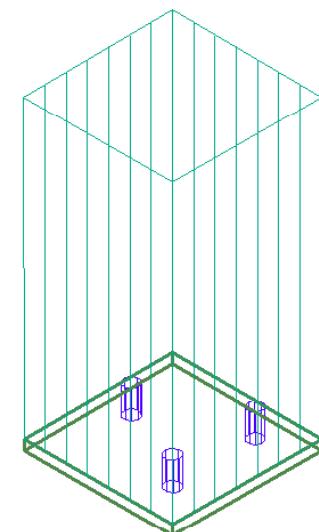
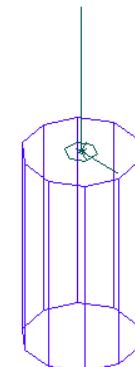
ADAPT-SOG



Import CAD file and quickly  
model true 3D geometry



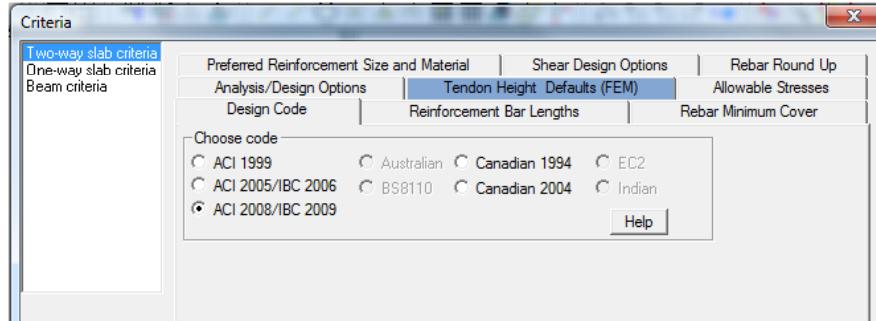
Apply loads to pedestals,  
columns, and/or slab surface



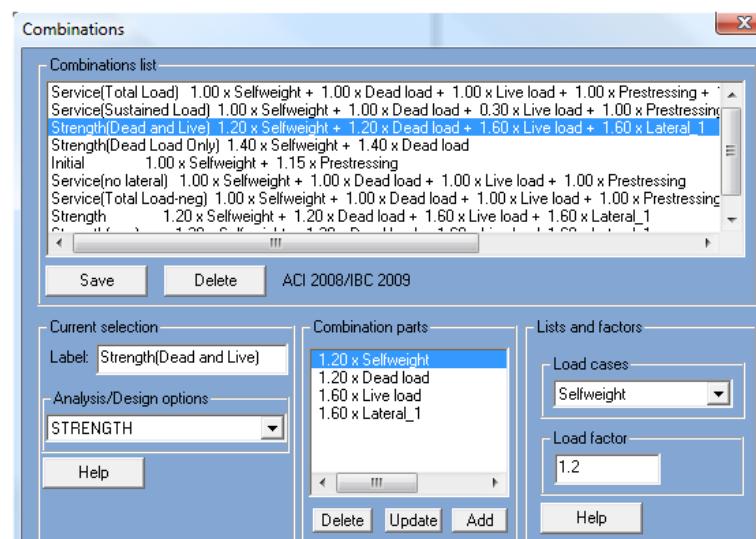
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Select from latest design codes and fine-tune project design parameters



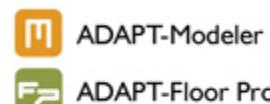
Create load combinations for service and strength conditions



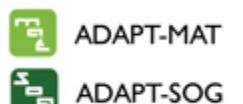
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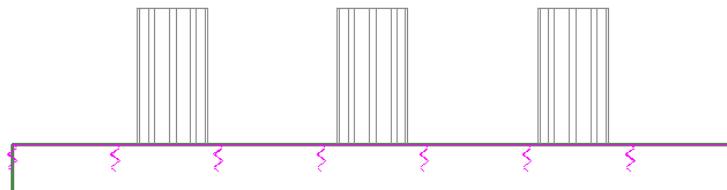


ADAPT-Floor Pro

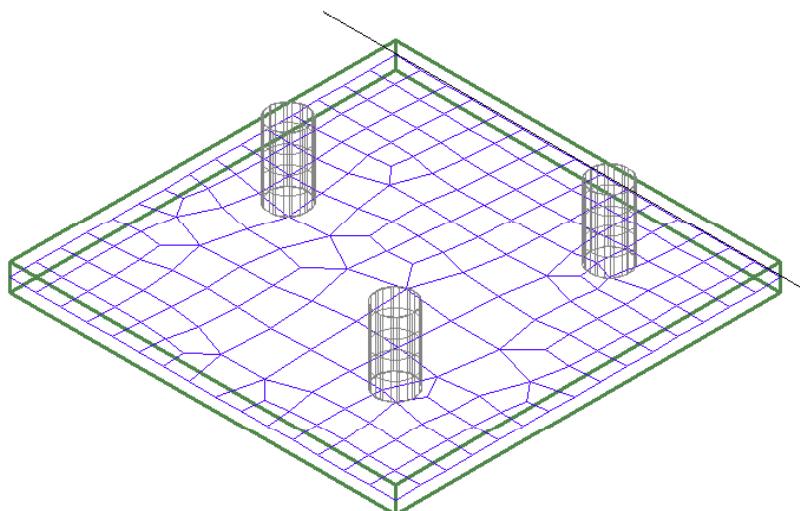


ADAPT-SOG

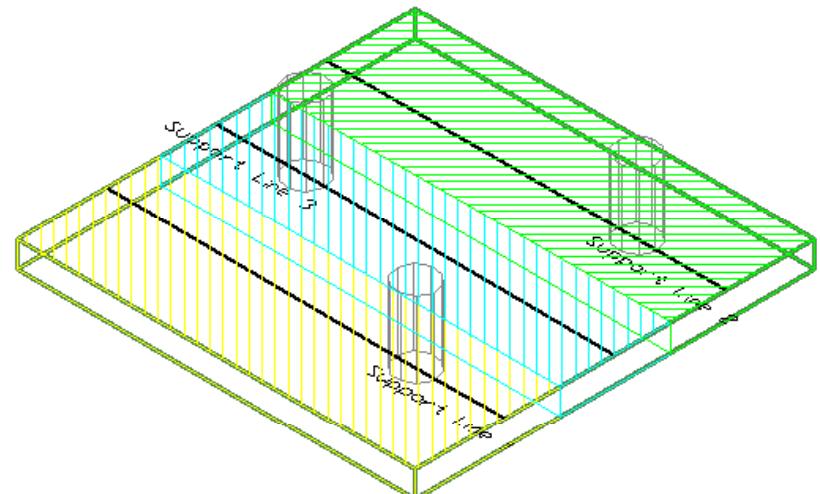
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Model any configuration of soil support



ADAPT-MAT automatically generates accurate Finite Element mesh



Design strips are used to determine placement of reinforcement



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ADAPT-PT



ADAPT-Modeler



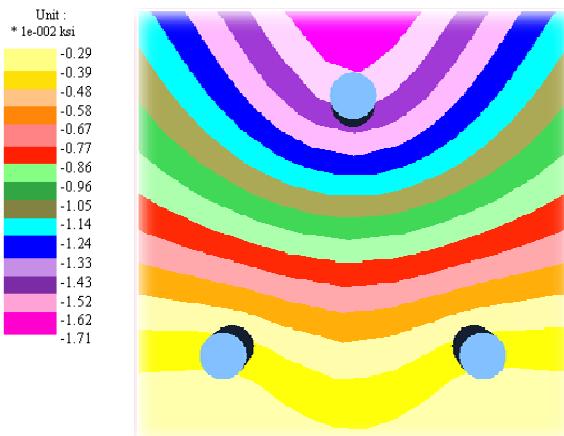
ADAPT-Floor Pro



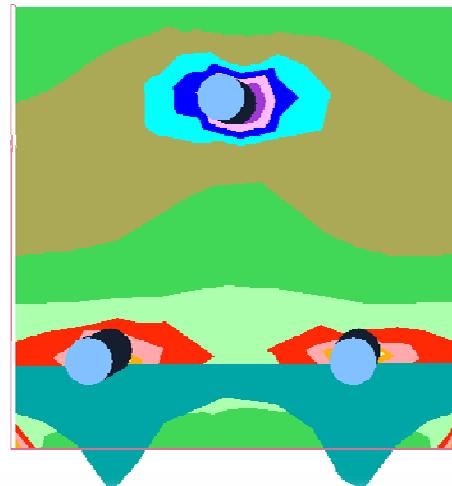
ADAPT-MAT



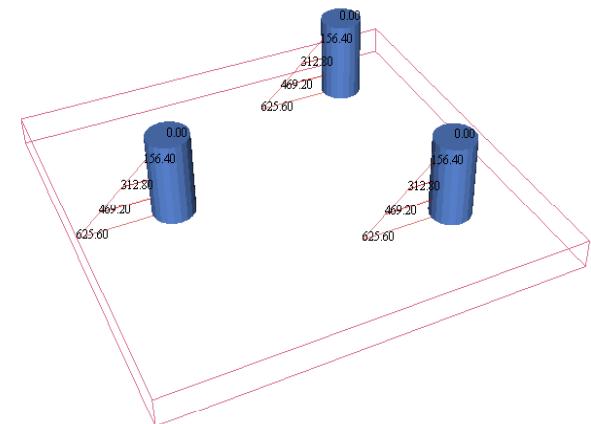
ADAPT-SOG



Check soil pressures for different load conditions



Review moment distributions



Visualize actions in pedestal, columns



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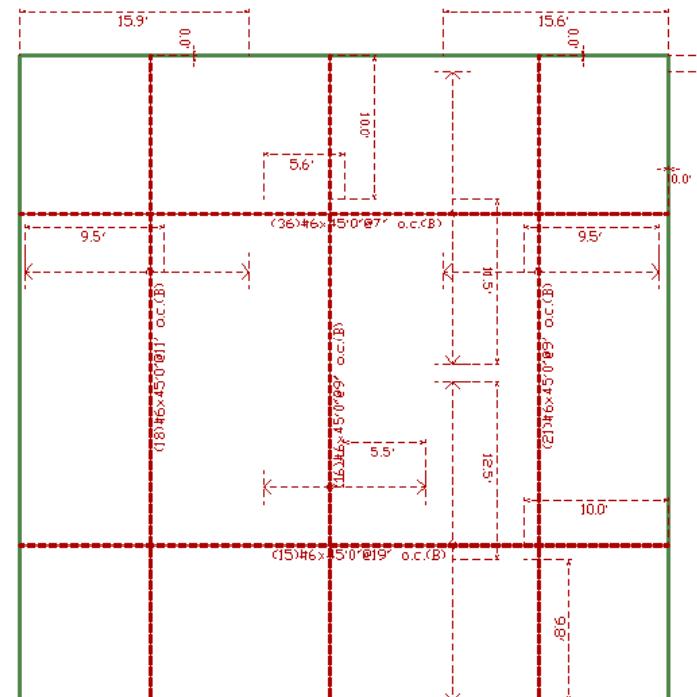
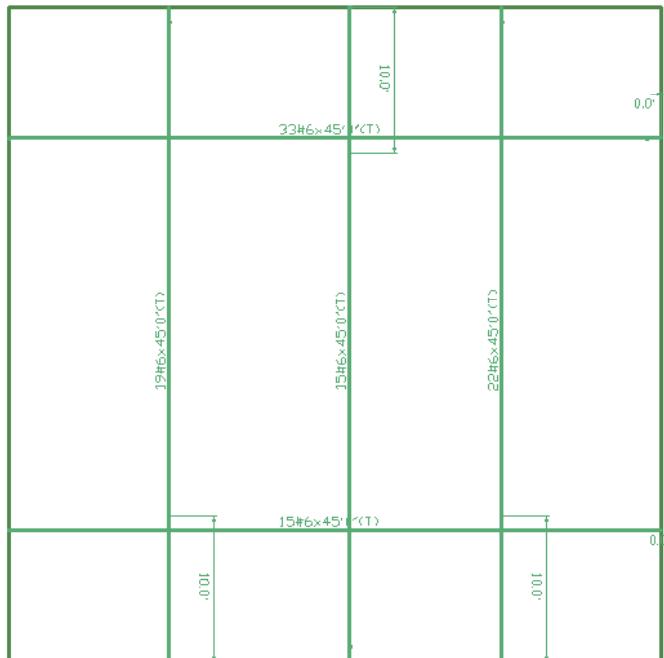


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ADAPT-SOG

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Generate top and bottom reinforcement drawings

- Can specify and check against typical reinforcement in foundation
- Rebar layout exportable as dwg /dxf files



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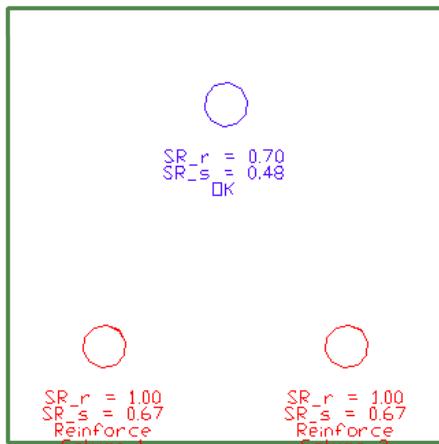


ADAPT-MAT



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Software automatically generates quantity takeoff

#### 210.00 REBAR TOTALS

Bar Reinforcement (calculated and user defined base reinforcement)

Load combination: Envelope

Group	Quantity	Size	Length/bar	Length	Weight	Unit cost	Total cost
	bars		ft	ft	lb	\$/lb	\$
1	210	#6	45.00	9450.00	14194.32	3.00	42582.95
Total				9450.00	14194.32		42582.95

Load Combination: Strength(neg)

Number of rails per side: 2

Column ID	Number of studs/rail	Stud diameter (in)	Studs	1	2	3	4	5	6
1	20	0.50	Distance	4.00	8.00	12.00	16.00	20.00	24.00
				(7)28.00	(8)32.00	(9)36.00	(10)40.00	(11)44.00	(12)48.00
				(13)52.00	(14)56.00	(15)60.00	(16)64.00	(17)68.00	(18)72.00
				(19)76.00	(20)80.00				

Total volume of concrete = 6075.00 ft<sup>3</sup> (225.00/cu yd)

Total surface of floor slabs = 2025.00 ft<sup>2</sup>

Average rebar usage = 7.01 lb/ft<sup>2</sup>, 2.34 lb/ft<sup>3</sup> (0.09 lb/cu yd)

Total cost of reinforcement = 42582.95 \$

Punching shear check and report of required shear reinforcement



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ADAPT-Modeler



ADAPT-MAT



ADAPT-Floor Pro



ADAPT-SOG

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