Pile Group Analysis

Job: 2
Description: Job Description
Time: 1:45 PM 10/9/2008

Designed By: Clint
Checked By:
Program: Pile Group Analysis 2.0

P I L E G R O U P D A T A

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Number of Piles                 : 4
Piles Fixed At Top?             : No
Piles Fixed At Bottom?          : No
Pile Width                      : 12.00 In
     Depth                      : 12.00 In
     Perimeter                  : 38.00 In
     Shaft Area                 : 130.00 In^2
     Point Area                 : 20.00 In^2
     Modulus, E                 : 2900.00 K/In^2
     Inertia, Ix                : 255.00 In^4
     Inertia, Iy                : 255.00 In^4
     Torsion, J                 : 45.00 In^4
Vertical Group Factor           : 1.00
Horizontal Group Factor         : 1.00

Horizontal Soil Data
     As                         : 20.00 K/Ft^3
     Bs                         : 1.20 K/Ft^3
     Exponent                   : 0.67

Vertical Soil Data
     Pile Point Subgrade Modulus : 200.00 K/Ft^3
     Skin Friction
          From :    0.000  Ft    To :    4.500  Ft     Shear :   10.000   K/Ft ^2    Slip :    0.100 In
                    4.500                 9.000                   10.000                       0.100
                    9.000                13.500                   10.000                       0.100
                   13.500                18.000                   10.000                       0.100
                   18.000                22.500                   10.000                       0.100
                   22.500                27.000                   10.000                       0.100
                   27.000                31.500                   10.000                       0.100
                   31.500                36.000                   10.000                       0.100
                   36.000                40.500                   10.000                       0.100
                   40.500                45.000                   10.000                       0.100
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P I L E L O C A T I O N S

No.	X	Y	Z	Length	Bearing	Batter
Units:	Ft	Ft	Ft	Ft	Deg	
1	0.000	0.000	0.000	45.000	0.000	0.000
2	10.000	0.000	10.000	45.000	0.000	0.000
3	0.000	0.000	10.000	45.000	0.000	0.000
4	10.000	0.000	0.000	45.000	0.000	0.000

A P P L I E D F O R C E S

C.G. of Forces : 5.00 Ft (X), 2.00 Ft (Y), 5.00 Ft (Z)

Loads

PX : 17.00 K
PY : -50.00 K
MX : 45.00 Ft-K
MZ : 10.00 Ft-K

A N A L Y S I S R E S U L T S

PILE	ELEM	MAX	MAX	MAX	MAX	POINT	MAX	DISPLACEMENTS

NO	NO	AXIAL	MOMENT X	MOMENT Y	TORSION	LOAD	SKIN FRIC	DX	DZ	DY
Units:		K	K-Ft	K-Ft	K-Ft	K	K-Ft ^2	In	In	In
1	10	-9.050	0.000	-9.687	0.000	0.000	0.17893	1.113	0.000	-0.003
2	54	-15.950	0.000	-9.687	0.000	0.000	0.31535	1.113	0.000	-0.005
3	98	-13.550	0.000	-9.687	0.000	0.000	0.26790	1.113	0.000	-0.004
4	142	-11.450	0.000	-9.687	0.000	0.000	0.22638	1.113	0.000	-0.004