

TAC-WAYS

MEMORANDUM

NEW YORK WORLD'S FAIR 1964-1965 CORPORATION

TO: Mr. Stuart Constable

DATE: April 27, 1961

FROM: General William Whipple, Jr.

SUBJECT: Cable Ride Proposal
Gen. William Whipple, Jr., Chief Engineer
New York World's Fair 1964-1965 Corporation
Flushing Meadow Park - P.O. Box 1964
Flushing 52, New York

Dear General Whipple:

We are enclosing herewith a summary of technical data and an estimate of income and expenses for an aerial cableway, gondola-type, for the New York World's Fair 1964-1965. Within the next week we shall mail to you the profiles of the project.

We are enclosing also your ground plan with the projected cableway lines superimposed. Attached for your consideration is a proposal on **the Cable Ride**. In accordance with your request, the enclosed estimates and technical data relate to **the Cable Ride** only. However, we would be interested in building and operating a cableway on section 3 and will, with your approval, submit figures for that section as soon as we have your reaction to the enclosed material.

If we are granted the concession for the cable rides, we will finance the construction, design, manufacture and erect it in accordance with approved plans and specifications and operate it for the two-year period (54 weeks), after which we will dismantle and remove the cableway and its components.

Chief Engineer

Our engineers have the experience and ability to provide a list of superior design and for maximum safety, to conform to the plan and scope of the New York World's Fair.

cc: Mr. W. E. Andrews
Mr. G. D. Clarke
General W. E. Potter ✓
General T. F. Farrell

We shall await your advice. Thank you for your consideration.

Sincerely yours,

Joseph D. ...
JOSEPH D. ...
Chief Engineer

TAC-WAYS *designers, engineers and manufacturers of*

T R A M — A E R I A L — C A B L E W A Y S

- 16610 venture boulevard
- suite 12, encino, california
- telephone: state 9-9131

April 25, 1961

Gen. William Whipple, Jr., Chief Engineer
New York World's Fair 1964-1965 Corporation
Flushing Meadow Park - P.O. Box 1964
Flushing 52, New York

Dear General Whipple:

We are enclosing herewith a summary of technical data and an estimate of income and expenses for an aerial cableway, gondola-type, for the New York World's Fair 1964-1965. Within the next week we shall mail to you the profiles of the project.

We are enclosing also your ground plan with the projected cableway lines superimposed in three sections, numbered sections 1, 2 and 3 respectively. In accordance with your request, the enclosed estimates and technical data relate to sections 1 and 2 only. However, we would be interested in building and operating a cableway on section 3 and will, with your approval, submit figures for that section as soon as we have your reaction to the enclosed material.

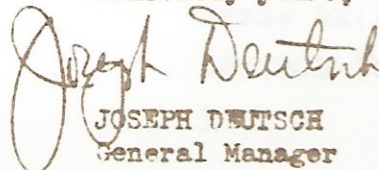
If we are granted the concession for the cable rides, we will finance the construction, design, manufacture and erect it in accordance with approved plans and specifications and operate it for the two-year period (54 weeks), after which we will dismount and remove the cableway and its components.

Our engineers have the experience and ability to provide a lift of superior design and function, with maximum safety, to conform to the plan and scope of the New York World's Fair.

With reference to your compensation, we propose either a graduated percentage of gross receipts as indicated on the enclosed graph, or a percentage of the net profit as defined by mutual agreement. When you are ready to discuss particulars, we can arrange to come to New York and meet with you at your convenience.

We shall await your advice. Thank you for your consideration.

Sincerely yours,


JOSEPH DEUTSCH
General Manager

JD:pl
encls.

TAC-WAYS *designers, engineers and manufacturers of*

T R A M — A E R I A L — C A B L E W A Y S

- 16610 ventura boulevard
- suite 12, encino, california
- telephone: state 9-9131

G O N D O L A World's Fair 1964, New York

Technical data:

System: rotary cableway with automatic couplings.

Safety orders: of the State of New York.

1. Topographical data:

Profile	13.212.128
Length of travel	3,100'
Greatest single span	610'
Greatest distance between cabin and ground	65'

2. Plant data:

Traveling speed	9.5'/sec.
Travel time	10 min
Time interval between two cabins	14.4 sec
Distance between two cabins	136.5'
Capacity of each cabin	4 persons
Carrying capacity on each direction	1,000 persons/hour
Number of cabins on the line on each side	2 x 22
Number of cabins in the stations	48

3. Cable:

Diameter	1.22"
Construction	Seale 6x(1+9+9)
Break strength	140,000 lb
Minimum security	5

4. Towers:

Number

3+2

Height

70'

Construction

welded

5. Drive:

Location, for both sections,

middle station

Output of the drive motor

85 HP

Power electricity

3x440 V, 60 per.

Brakes

1 service brake

1 emergency brake

6. Security and telephone equipment:

Current

of battery

Connection

through telephone
cable

7. Auxiliary motor:

Type

combustion

R7/m

4.20.61

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Estimate, income and expenses.

1. Number of persons transported:

	saturday and sunday		week-days	
10h-12h	2 x 500	1,000	2 x 33	600
12 - 4	4 x 700	2,800	4 x 400	1,600
4 - 6	2 x 600	1,200	2 x 300	600
6 - 8	2 x 400	800	2 x 200	400
8 -12h pm	4 x 300	<u>1,200</u>	4 x 100	<u>400</u>
		7,000 persons		3,600 persons

per week in one direction $2 \times 7,000 + 5 \times 3,600 = 32,000$
 50% in the other direction 16,000
 total persons transported per week 48,000

The cable ride is 54 weeks in operation:

$54 \times 48,000 = 2,600,000$ persons transported.

2. Prices of travel: adults \$1.-- , children 50 Cts.

30% are children	\$15.--
70% are adults	<u>\$70.--</u>
	\$85.-- for 100 persons
	85 Cts per person.

3. Gross income: $2,600,000 \times 85 \text{ Cts} = \$2,200,000.--$

4. Operating Costs:

18 Employees	105,000.00
3 Technicians	35,000.00
Electricity	35,000.00
Maintenance	30,000.00
Miscellaneous	<u>20,000.00</u>
Total	225,000.00

Plus Rent to be Determined

5. Cost of Construction and Erection:

Estimate: \$1,250,000.00