

COMMITTENTE:



ALTA
SORVEGLIANZA:



GENERAL CONTRACTOR:



**INFRASTRUTTURE FERROVIARIE STRATEGICHE DEFINITE DALLA LEGGE
OBIETTIVO N. 443/01**

LINEA AV/AC TORINO – VENEZIA Tratta VERONA – PADOVA

Lotto funzionale Verona – Bivio Vicenza

PROGETTO ESECUTIVO

SL - SOTTOVIA

SL13 - SOTTOVIA AL KM 35+455.58

RAMPE SUD

Allegato di calcolo

GENERAL CONTRACTOR		DIRETTORE LAVORI		SCALA
IL PROGETTISTA INTEGRATORE	Consorzio Iricav Due Ing. Paolo Carmona Data: Febbraio 2023			-
Ing. Claudio DE GIUDICI Iscritto all'ordine degli ingegneri di Udine n. 1875 Data: Febbraio 2023				

COMMESSA	LOTTO	FASE	ENTE	TIPO DOC.	OPERA/DISCIPLINA	PROGR.	REV.	FOGLIO			
I N 1 7	1 2	E	I 2	CL	SL 1 3 C 0	0 0 2	B	-	-	-	p - - -

	VISTO CONSORZIO IRICAV DUE	
	Firma	Data
	Ing Alberto Levorato 	Febbraio 2023



Progettazione:

Rev.	Descrizione	Redatto	Data	Verificato	Data	Approvato	Data	IL PROGETTISTA
A	EMISSIONE	CODING 	30/04/21	C.Pinti 	30/04/21	P. Luciani 	30/04/21	 Giuseppe Fabrizio Coppa Data: 30/04/21
B	REVISIONE INTERNA	CODING 	Febbraio 2023	C.Pinti 	Febbraio 2023	P. Luciani 	Febbraio 2023	

CIG. 8377957CD1	CUP: J41F91000000009	File: IN1712EI2CLSL13C0002B Cod. origine:
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Progetto cofinanziato
dalla Unione Europea

GENERAL CONTRACTOR  IRICAV2	ALTA SORVEGLIANZA  ITALFERR GRUPPO FERROVIE DELLO STATO ITALIANE			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B



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1 ALLEGATO DI CALCOLO

Si riportano di seguito, in allegato, i dati di input e output del software di calcolo.

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	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

1.1 SEZIONE 1

/ _____

/ STRAUS7 MODEL EXCHANGE FILE

/ _____

/ MODEL INFORMATION

```

FileFormat      Straus7.2.3.3
ModelName       "SEZ.01_ver2.3"
Title           ""
Project         ""
Author          ""
Reference       ""
Comments        ""

```

/ _____

/ UNITS

```

LengthUnit      m
MassUnit        kg
EnergyUnit      J
PressureUnit    kPa
ForceUnit       kN
TemperatureUnit C

```



/ _____

/ GROUP DEFINITIONS

```

Group           1 16711680 "\\Model"
Group           2 3355647 "0"

```

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/ _____

/ FREEDOM CASE DEFINITIONS

```

FreedomCase      2   0   0 "Freedom"
DZ RX RY

```

/ _____

/ LOAD CASE DEFINITIONS

```

LoadCase        2   1 "PP"
Gravity         2  -9.810000000000000E+0
LCInclude       3

LoadCase        3   0 "PERM"
LCInclude       3

LoadCase        4   0 "SPTSX"
LCInclude       3



LoadCase        5   0 "SPTDX"
LCInclude       3

LoadCase        6   0 "SPTW"
LCInclude       3

LoadCase        7   0 "SPACCSX"
LCInclude       3

LoadCase        8   0 "SPACCDX"

```

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LCInclude 3

LoadCase 9 0 "ACC_SOLINF"

LCInclude 3

LoadCase 10 0 "SISMA_H"

LCInclude 3

LoadCase 11 0 "SPSSX"

LCInclude 3

LoadCase 12 0 "SPSDX"

LCInclude 3

/ _____

/ LOAD CASE COMBINATIONS

LoadCaseCombination 13 "SLU01"

2 1.3500000000000000E+0

3 1.5000000000000000E+0

4 1.3500000000000000E+0

5 1.3500000000000000E+0

6 1.0000000000000000E+0


7 1.5000000000000000E+0

9 1.5000000000000000E+0

LoadCaseCombination 14 "SLU02"

2 1.3500000000000000E+0

3 1.5000000000000000E+0

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- 4 1.3500000000000000E+0
- 5 1.0000000000000000E+0
- 6 1.3500000000000000E+0
- 7 1.5000000000000000E+0
- 9 1.5000000000000000E+0

LoadCaseCombination 15 "SLU03"



- 2 1.3500000000000000E+0
- 3 1.5000000000000000E+0
- 4 1.0000000000000000E+0
- 5 1.0000000000000000E+0
- 6 1.0000000000000000E+0
- 7 1.5000000000000000E+0
- 8 1.5000000000000000E+0
- 9 1.5000000000000000E+0

LoadCaseCombination 16 "SLU04"

- 2 1.3500000000000000E+0
- 3 1.5000000000000000E+0
- 4 1.3500000000000000E+0
- 5 1.3500000000000000E+0
- 6 1.3500000000000000E+0
- 7 1.5000000000000000E+0
- 8 1.5000000000000000E+0
- 9 1.5000000000000000E+0

LoadCaseCombination 17 "SLU05"

- 2 1.0000000000000000E+0
- 3 1.0000000000000000E+0
- 4 1.3500000000000000E+0

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- 5 1.3500000000000000E+0
- 6 1.3500000000000000E+0
- 7 1.5000000000000000E+0
- 8 1.5000000000000000E+0
- 9 1.5000000000000000E+0

LoadCaseCombination 18 "SLU_SISMA01"

- 2 1.0000000000000000E+0
- 3 1.0000000000000000E+0
- 4 1.0000000000000000E+0
- 5 1.0000000000000000E+0
- 6 1.0000000000000000E+0
- 7 2.0000000000000000E-1
- 8 2.0000000000000000E-1
- 9 2.0000000000000000E-1
- 10 1.0000000000000000E+0
- 11 1.0000000000000000E+0
- 12 1.0000000000000000E+0

LoadCaseCombination 19 "SLU_SISMA02"

- 2 1.0000000000000000E+0
- 3 1.0000000000000000E+0
- 4 1.0000000000000000E+0
- 5 1.0000000000000000E+0
- 6 1.0000000000000000E+0
- 7 2.0000000000000000E-1
- 8 2.0000000000000000E-1
- 9 2.0000000000000000E-1
- 10 1.0000000000000000E+0
- 11 1.0000000000000000E+0

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12 -1.00000000000000E+0

LoadCaseCombination 20 "SLE_RARA01"

- 2 1.00000000000000E+0
- 3 1.00000000000000E+0
- 4 1.00000000000000E+0
- 5 1.00000000000000E+0
- 6 1.00000000000000E+0
- 7 1.00000000000000E+0
- 8 1.00000000000000E+0
- 9 1.00000000000000E+0

LoadCaseCombination 21 "SLE_RARA02"



- 2 1.00000000000000E+0
- 3 1.00000000000000E+0
- 4 1.00000000000000E+0
- 5 8.00000000000000E-1
- 6 1.00000000000000E+0
- 7 1.00000000000000E+0
- 9 1.00000000000000E+0

LoadCaseCombination 22 "SLE_QPERM01"

- 2 1.00000000000000E+0
- 3 1.00000000000000E+0
- 4 1.00000000000000E+0
- 5 1.00000000000000E+0
- 6 1.00000000000000E+0

LoadCaseCombination 23 "SLE_FREQ01"

- 2 1.00000000000000E+0

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	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

3 1.0000000000000000E+0
4 1.0000000000000000E+0
5 8.0000000000000000E-1
6 1.0000000000000000E+0
7 7.5000000000000000E-1
9 7.5000000000000000E-1

/ _____

/ RESULT CASE ENVELOPES

LoadCaseEnvelope "SLU/SLV" Abs



ON 13
ON 14
ON 15
ON 16
ON 17
ON 18
ON 19

LoadCaseEnvelope "SLU" Abs

ON 13
ON 14
ON 15
ON 16
ON 17

LoadCaseEnvelope "SLV" Abs

ON 18
ON 19

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
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LoadCaseEnvelope "SLE R" Abs

ON 20

ON 21

LoadCaseEnvelope "SLE F" Abs

ON 23

LoadCaseEnvelope "SLE QP" Abs

ON 22

/ _____

/ COORDINATE SYSTEM DEFINITIONS

CoordSys 1 "Global XYZ" GlobalXYZ

CoordSys 2 "Global" GlobalXYZ

/ _____

/ NODE COORDINATES

Node 1 -3.15000000000000E+0 0.00000000000000E+0 0.00000000000000E+0

Node 2 -2.95000000000000E+0 0.00000000000000E+0 0.00000000000000E+0

Node 3 -2.75000000000000E+0 0.00000000000000E+0 0.00000000000000E+0

Node 4 -2.06000000000000E+0 0.00000000000000E+0 0.00000000000000E+0

Node 5 -1.38000000000000E+0 0.00000000000000E+0 0.00000000000000E+0

Node 6 -6.88000000000000E-1 0.00000000000000E+0 0.00000000000000E+0

Node 7 0.00000000000000E+0 0.00000000000000E+0 0.00000000000000E+0

GENERAL CONTRACTOR





ALTA SORVEGLIANZA



	Progetto	Lotto	Codifica	
	IN17	12	EI2CLSL13C0002	B



Node	8	6.880000000000000E-1	0.000000000000000E+0	0.000000000000000E+0
Node	9	1.380000000000000E+0	0.000000000000000E+0	0.000000000000000E+0
Node	10	2.060000000000000E+0	0.000000000000000E+0	0.000000000000000E+0
Node	11	2.750000000000000E+0	0.000000000000000E+0	0.000000000000000E+0
Node	12	2.950000000000000E+0	0.000000000000000E+0	0.000000000000000E+0
Node	13	3.150000000000000E+0	0.000000000000000E+0	0.000000000000000E+0
Node	14	-3.150000000000000E+0	2.500000000000000E-1	0.000000000000000E+0
Node	15	3.150000000000000E+0	2.500000000000000E-1	0.000000000000000E+0
Node	16	-3.150000000000000E+0	5.000000000000000E-1	0.000000000000000E+0
Node	17	3.150000000000000E+0	5.000000000000000E-1	0.000000000000000E+0
Node	18	-3.150000000000000E+0	1.050000000000000E+0	0.000000000000000E+0
Node	19	3.150000000000000E+0	1.050000000000000E+0	0.000000000000000E+0
Node	20	-3.150000000000000E+0	1.600000000000000E+0	0.000000000000000E+0
Node	21	3.150000000000000E+0	1.600000000000000E+0	0.000000000000000E+0
Node	22	-3.150000000000000E+0	2.160000000000000E+0	0.000000000000000E+0
Node	23	3.150000000000000E+0	2.160000000000000E+0	0.000000000000000E+0
Node	24	-3.150000000000000E+0	2.710000000000000E+0	0.000000000000000E+0
Node	25	3.150000000000000E+0	2.710000000000000E+0	0.000000000000000E+0
Node	26	-3.150000000000000E+0	3.260000000000000E+0	0.000000000000000E+0
Node	27	3.150000000000000E+0	3.260000000000000E+0	0.000000000000000E+0
Node	28	-3.150000000000000E+0	3.810000000000000E+0	0.000000000000000E+0
Node	29	3.150000000000000E+0	3.810000000000000E+0	0.000000000000000E+0
Node	30	-3.150000000000000E+0	4.370000000000000E+0	0.000000000000000E+0
Node	31	3.150000000000000E+0	4.370000000000000E+0	0.000000000000000E+0
Node	32	-3.150000000000000E+0	4.920000000000000E+0	0.000000000000000E+0
Node	33	3.150000000000000E+0	4.920000000000000E+0	0.000000000000000E+0
Node	34	-3.150000000000000E+0	5.470000000000000E+0	0.000000000000000E+0
Node	35	3.150000000000000E+0	5.470000000000000E+0	0.000000000000000E+0

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/ BEAM ELEMENTS

Beam	1	2	2	1	2
Beam	2	2	2	2	3
Beam	3	2	2	3	4
Beam	4	2	2	4	5
Beam	5	2	2	5	6
Beam	6	2	2	6	7
Beam	7	2	2	7	8
Beam	8	2	2	8	9
Beam	9	2	2	9	10
Beam	10	2	2	10	11
Beam	11	2	2	11	12
Beam	12	2	2	12	13
Beam	13	2	3	1	14
Beam	14	2	3	14	16
Beam	15	2	3	16	18
Beam	16	2	3	18	20
Beam	17	2	3	20	22
Beam	18	2	3	22	24
Beam	19	2	3	24	26
Beam	20	2	3	26	28
Beam	21	2	3	28	30
Beam	22	2	3	30	32
Beam	23	2	3	32	34
Beam	24	2	3	15	13
Beam	25	2	3	17	15
Beam	26	2	3	19	17
Beam	27	2	3	21	19
Beam	28	2	3	23	21

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Beam	29	2	3	25	23
Beam	30	2	3	27	25
Beam	31	2	3	29	27
Beam	32	2	3	31	29
Beam	33	2	3	33	31
Beam	34	2	3	35	33

/ _____

/ BEAM SUPPORTS

BmSupport	1	0.00000000000000E+0	1.50000000000000E+4
BmSupport	2	0.00000000000000E+0	1.50000000000000E+4
BmSupport	3	0.00000000000000E+0	1.50000000000000E+4
BmSupport	4	0.00000000000000E+0	1.50000000000000E+4
BmSupport	5	0.00000000000000E+0	1.50000000000000E+4
BmSupport	6	0.00000000000000E+0	1.50000000000000E+4
BmSupport	7	0.00000000000000E+0	1.50000000000000E+4
BmSupport	8	0.00000000000000E+0	1.50000000000000E+4
BmSupport	9	0.00000000000000E+0	1.50000000000000E+4
BmSupport	10	0.00000000000000E+0	1.50000000000000E+4
BmSupport	11	0.00000000000000E+0	1.50000000000000E+4
BmSupport	12	0.00000000000000E+0	1.50000000000000E+4



/ _____

/ NODE RESTRAINTS (ROTATION AS RADIAN)

/ Freedom

NdFreedom	2	1	1	DX
NdFreedom	2	13	1	DX

/ _____

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	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

/ BEAM GLOBAL DISTRIBUTED LOADS

/ PERM



BmDistLoadG	3	1	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	2	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	3	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	4	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	5	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	6	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	7	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	8	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	9	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	10	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	11	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	12	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			

/ _____

/ NODE FORCES

/ SPTSX

NdForce	4	1	2.18000000000000E+1	0.00000000000000E+0	0.00000000000000E+0
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/ _____

/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPTSX



BmDistLoadG	4	13	X	2	4.1600000000000E+1	3.9700000000000E+1
0.0000000000000E+0	0.0000000000000E+0	0.00	0.00			
BmDistLoadG	4	14	X	2	3.9700000000000E+1	3.7800000000000E+1
0.0000000000000E+0	0.0000000000000E+0	0.00	0.00			
BmDistLoadG	4	15	X	2	3.7800000000000E+1	3.4000000000000E+1
0.0000000000000E+0	0.0000000000000E+0	0.00	0.00			
BmDistLoadG	4	16	X	2	3.4000000000000E+1	2.9700000000000E+1
0.0000000000000E+0	0.0000000000000E+0	0.00	0.00			
BmDistLoadG	4	17	X	2	2.9700000000000E+1	2.5500000000000E+1
0.0000000000000E+0	0.0000000000000E+0	0.00	0.00			
BmDistLoadG	4	18	X	2	2.5500000000000E+1	2.1200000000000E+1
0.0000000000000E+0	0.0000000000000E+0	0.00	0.00			
BmDistLoadG	4	19	X	2	2.1200000000000E+1	1.7000000000000E+1
0.0000000000000E+0	0.0000000000000E+0	0.00	0.00			
BmDistLoadG	4	20	X	2	1.7000000000000E+1	1.2700000000000E+1
0.0000000000000E+0	0.0000000000000E+0	0.00	0.00			
BmDistLoadG	4	21	X	2	1.2700000000000E+1	8.4900000000000E+0
0.0000000000000E+0	0.0000000000000E+0	0.00	0.00			
BmDistLoadG	4	22	X	2	8.4900000000000E+0	4.2400000000000E+0
0.0000000000000E+0	0.0000000000000E+0	0.00	0.00			
BmDistLoadG	4	23	X	2	4.2400000000000E+0	0.0000000000000E+0
0.0000000000000E+0	0.0000000000000E+0	0.00	0.00			

/ _____

/ NODE FORCES

/ SPTDX

NdForce	5	13	-2.1800000000000E+1	0.0000000000000E+0
0.0000000000000E+0				

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/ _____

/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPTDX

BmDistLoadG	5	24	X	2	-3.97000000000000E+1	-4.16000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	5	25	X	2	-3.78000000000000E+1	-3.97000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	5	26	X	2	-3.40000000000000E+1	-3.78000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	5	27	X	2	-2.97000000000000E+1	-3.40000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	5	28	X	2	-2.55000000000000E+1	-2.97000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	5	29	X	2	-2.12000000000000E+1	-2.55000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	5	30	X	2	-1.70000000000000E+1	-2.12000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	5	31	X	2	-1.27000000000000E+1	-1.70000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	5	32	X	2	-8.49000000000000E+0	-1.27000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	5	33	X	2	-4.24000000000000E+0	-8.49000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	5	34	X	2	0.00000000000000E+0	-4.24000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00



/ _____

/ NODE FORCES

/ SPACCSX

NdForce	7	1	1.92000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
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/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPACCSX

BmDistLoadG	7	13	X	1	3.84000000000000E+0	3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	7	14	X	1	3.84000000000000E+0	3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	7	15	X	1	3.84000000000000E+0	3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	7	16	X	1	3.84000000000000E+0	3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	7	17	X	1	3.84000000000000E+0	3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	7	18	X	1	3.84000000000000E+0	3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	7	19	X	1	3.84000000000000E+0	3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	7	20	X	1	3.84000000000000E+0	3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	7	21	X	1	3.84000000000000E+0	3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	7	22	X	1	3.84000000000000E+0	3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	7	23	X	1	3.84000000000000E+0	3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			



/ _____

/ NODE FORCES

/ SPACCDX

NdForce	8	13	-1.92000000000000E+0	0.00000000000000E+0
0.00000000000000E+0				

/ _____

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPACCDX



BmDistLoadG	8	24	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	25	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	26	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	27	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	28	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	29	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	30	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	31	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	32	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	33	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	34	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

/ _____

/ BEAM GLOBAL DISTRIBUTED LOADS

/ ACC_SOLINF

BmDistLoadG	9	1	Y	1	-2.00000000000000E+1	-2.00000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	9	2	Y	1	-2.00000000000000E+1	-2.00000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B



BmDistLoadG	9	3	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	4	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	5	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	6	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	7	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	8	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	9	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	10	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	11	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	12	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00

/ _____



/ BEAM GLOBAL DISTRIBUTED LOADS

/ SISMA_H

BmDistLoadG	10	13	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	10	14	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	10	15	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	10	16	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

BmDistLoadG	10	17	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	10	18	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	10	19	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	10	20	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	10	21	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	10	22	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	10	23	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	10	24	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	10	25	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	10	26	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	10	27	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	10	28	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	10	29	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	10	30	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	10	31	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	10	32	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

BmDistLoadG	10	33	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	10	34	X	1	5.880000000000000E+0	5.880000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00



/ _____

/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPSSX

BmDistLoadG	11	13	X	1	3.510000000000000E+1	3.510000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	11	14	X	1	3.510000000000000E+1	3.510000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	11	15	X	1	3.510000000000000E+1	3.510000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	11	16	X	1	3.510000000000000E+1	3.510000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	11	17	X	1	3.510000000000000E+1	3.510000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	11	18	X	1	3.510000000000000E+1	3.510000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	11	19	X	1	3.510000000000000E+1	3.510000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	11	20	X	1	3.510000000000000E+1	3.510000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	11	21	X	1	3.510000000000000E+1	3.510000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	11	22	X	1	3.510000000000000E+1	3.510000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	11	23	X	1	3.510000000000000E+1	3.510000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00

/ _____

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPSDX

BmDistLoadG	12	24	X	1	-3.51000000000000E+1	-3.51000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	25	X	1	-3.51000000000000E+1	-3.51000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	26	X	1	-3.51000000000000E+1	-3.51000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	27	X	1	-3.51000000000000E+1	-3.51000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	28	X	1	-3.51000000000000E+1	-3.51000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	29	X	1	-3.51000000000000E+1	-3.51000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	30	X	1	-3.51000000000000E+1	-3.51000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	31	X	1	-3.51000000000000E+1	-3.51000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	32	X	1	-3.51000000000000E+1	-3.51000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	33	X	1	-3.51000000000000E+1	-3.51000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	34	X	1	-3.51000000000000E+1	-3.51000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

/ _____

/ BEAM PROPERTIES

BeamProp	2 "Fondazione"
MaterialName	"Concrete:"
Modulus	3.36000000000000E+7
ShearMod	1.29000000000000E+7

GENERAL CONTRACTOR





ALTA SORVEGLIANZA



	Progetto	Lotto	Codifica	
	IN17	12	EI2CLSL13C0002	B

Poisson 1.5000000000000000E-1
 UsePoisson TRUE
 Density 2.5000000000000000E+3
 Expansion 1.0000000000000000E-5
 ThermalCond 1.3700000000000000E+0
 SpecificHeat 8.8000000000000000E+2
 Area 1.0000000000000000E+0
 MomentI11 8.3300000000000000E-2
 MomentI22 8.3300000000000000E-2
 MomentJ 1.0000000000000000E-1
 SectionType SolidRect
 B 1.0000000000000000E+0
 D 1.0000000000000000E+0
 NonLinType Elasticplastic
 Hardening Isotropic

BeamProp 3 "piedritti"
 MaterialName "Rck"
 Modulus 3.3600000000000000E+7
 ShearMod 1.2900000000000000E+7
 Poisson 1.5000000000000000E-1
 UsePoisson TRUE
 Density 2.5000000000000000E+3
 Expansion 1.0000000000000000E-5
 ThermalCond 1.3700000000000000E+0
 SpecificHeat 8.8000000000000000E+2
 Area 8.0000000000000000E-1
 MomentI11 4.2700000000000000E-2
 MomentI22 6.6700000000000000E-2
 MomentJ 1.0000000000000000E-1

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

```

SectionType      SolidRect
B                1.000000000000000E+0
D                8.000000000000000E-1
NonLinType      Elasticplastic
Hardening       Isotropic

```

1.2 SEZIONE 2

/ _____

/ STRAUS7 MODEL EXCHANGE FILE

/ _____

/ MODEL INFORMATION

```

FileFormat      Straus7.2.3.3
ModelName       "SEZ.02_ver2.3"
Title           ""
Project         ""
Author          ""
Reference       ""
Comments        ""

```



/ _____

/ UNITS

```

LengthUnit      m
MassUnit        kg
EnergyUnit      J
PressureUnit    kPa
ForceUnit       kN
TemperatureUnit C

```

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

/ _____

/ GROUP DEFINITIONS

Group 1 16711680 "\Model"
Group 2 3355647 "0"

/ _____

/ FREEDOM CASE DEFINITIONS

FreedomCase 2 0 0 "Freedom"
DZ RX RY

/ _____

/ LOAD CASE DEFINITIONS



LoadCase 2 1 "PP"
Gravity 2 -9.810000000000000E+0
LCInclude 3

LoadCase 3 0 "PERM"
LCInclude 3

LoadCase 4 0 "SPTSX"
LCInclude 3

LoadCase 5 0 "SPTDX"
LCInclude 3

LoadCase 6 0 "SPTW"

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

LCInclude 3

LoadCase 7 0 "SPACCSX"

LCInclude 3

LoadCase 8 0 "SPACCDX"

LCInclude 3

LoadCase 9 0 "ACC_SOLINF"

LCInclude 3

LoadCase 10 0 "SISMA_H"

LCInclude 3

LoadCase 11 0 "SPSSX"

LCInclude 3

LoadCase 12 0 "SPSDX"

LCInclude 3

/ _____

/ LOAD CASE COMBINATIONS

LoadCaseCombination 13 "SLU01"



2 1.35000000000000E+0

3 1.50000000000000E+0

4 1.35000000000000E+0

5 1.35000000000000E+0

6 1.00000000000000E+0

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

7 1.500000000000000E+0

9 1.500000000000000E+0

LoadCaseCombination 14 "SLU02"

2 1.350000000000000E+0

3 1.500000000000000E+0

4 1.350000000000000E+0

5 1.000000000000000E+0

6 1.350000000000000E+0

7 1.500000000000000E+0

9 1.500000000000000E+0

LoadCaseCombination 15 "SLU03"

2 1.350000000000000E+0

3 1.500000000000000E+0

4 1.000000000000000E+0

5 1.000000000000000E+0

6 1.000000000000000E+0

7 1.500000000000000E+0

8 1.500000000000000E+0

9 1.500000000000000E+0

LoadCaseCombination 16 "SLU04"

2 1.350000000000000E+0

3 1.500000000000000E+0



4 1.350000000000000E+0

5 1.350000000000000E+0

6 1.350000000000000E+0

7 1.500000000000000E+0

8 1.500000000000000E+0

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

9 1.5000000000000000E+0

LoadCaseCombination 17 "SLU05"



- 2 1.0000000000000000E+0
- 3 1.0000000000000000E+0
- 4 1.3500000000000000E+0
- 5 1.3500000000000000E+0
- 6 1.3500000000000000E+0
- 7 1.5000000000000000E+0
- 8 1.5000000000000000E+0
- 9 1.5000000000000000E+0

LoadCaseCombination 18 "SLU_SISMA01"

- 2 1.0000000000000000E+0
- 3 1.0000000000000000E+0
- 4 1.0000000000000000E+0
- 5 1.0000000000000000E+0
- 6 1.0000000000000000E+0
- 7 2.0000000000000000E-1
- 8 2.0000000000000000E-1
- 9 2.0000000000000000E-1
- 10 1.0000000000000000E+0
- 11 1.0000000000000000E+0
- 12 1.0000000000000000E+0

LoadCaseCombination 19 "SLU_SISMA02"

- 2 1.0000000000000000E+0
- 3 1.0000000000000000E+0
- 4 1.0000000000000000E+0
- 5 1.0000000000000000E+0

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

- 6 1.000000000000000E+0
- 7 2.000000000000000E-1
- 8 2.000000000000000E-1
- 9 2.000000000000000E-1
- 10 1.000000000000000E+0
- 11 1.000000000000000E+0
- 12 -1.000000000000000E+0

LoadCaseCombination 20 "SLE_RARA01"



- 2 1.000000000000000E+0
- 3 1.000000000000000E+0
- 4 1.000000000000000E+0
- 5 1.000000000000000E+0
- 6 1.000000000000000E+0
- 7 1.000000000000000E+0
- 8 1.000000000000000E+0
- 9 1.000000000000000E+0

LoadCaseCombination 21 "SLE_RARA02"

- 2 1.000000000000000E+0
- 3 1.000000000000000E+0
- 4 1.000000000000000E+0
- 5 8.000000000000000E-1
- 6 1.000000000000000E+0
- 7 1.000000000000000E+0
- 9 1.000000000000000E+0

LoadCaseCombination 22 "SLE_QPERM01"

- 2 1.000000000000000E+0
- 3 1.000000000000000E+0

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

4 1.000000000000000E+0
5 1.000000000000000E+0
6 1.000000000000000E+0

LoadCaseCombination 23 "SLE_FREQ01"

2 1.000000000000000E+0
3 1.000000000000000E+0
4 1.000000000000000E+0
5 8.000000000000000E-1
6 1.000000000000000E+0
7 7.500000000000000E-1
9 7.500000000000000E-1

/ _____



/ RESULT CASE ENVELOPES

LoadCaseEnvelope "SLU/SLV" Abs

ON 13
ON 14
ON 15
ON 16
ON 17
ON 18
ON 19

LoadCaseEnvelope "SLU" Min

ON 13
ON 14
ON 15

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

ON 16

ON 17

LoadCaseEnvelope "SLV" Min

ON 18

ON 19

LoadCaseEnvelope "SLE R" Abs

ON 20

ON 21

LoadCaseEnvelope "SLE F" Abs

ON 23

LoadCaseEnvelope "SLE QP" Abs

ON 22

/ _____

/ COORDINATE SYSTEM DEFINITIONS

CoordSys 1 "Global XYZ" GlobalXYZ

CoordSys 2 "Global" GlobalXYZ

/ _____

/ NODE COORDINATES

Node 1 -2.950000000000000E+0 0.000000000000000E+0 0.000000000000000E+0

GENERAL CONTRACTOR





ALTA SORVEGLIANZA



	Progetto	Lotto	Codifica	
	IN17	12	EI2CLSL13C0002	B

Node	2	-2.85000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	3	-2.75000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	4	-2.06000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	5	-1.38000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	6	-6.88000000000000E-1	0.00000000000000E+0	0.00000000000000E+0
Node	7	0.00000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	8	6.88000000000000E-1	0.00000000000000E+0	0.00000000000000E+0
Node	9	1.38000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	10	2.06000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	11	2.75000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	12	2.85000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	13	2.95000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	14	-2.95000000000000E+0	1.75000000000000E-1	0.00000000000000E+0
Node	15	2.95000000000000E+0	1.75000000000000E-1	0.00000000000000E+0
Node	16	-2.95000000000000E+0	3.50000000000000E-1	0.00000000000000E+0
Node	17	2.95000000000000E+0	3.50000000000000E-1	0.00000000000000E+0
Node	18	-2.95000000000000E+0	7.39000000000000E-1	0.00000000000000E+0
Node	19	2.95000000000000E+0	7.39000000000000E-1	0.00000000000000E+0
Node	20	-2.95000000000000E+0	1.13000000000000E+0	0.00000000000000E+0
Node	21	2.95000000000000E+0	1.13000000000000E+0	0.00000000000000E+0
Node	22	-2.95000000000000E+0	1.52000000000000E+0	0.00000000000000E+0
Node	23	2.95000000000000E+0	1.52000000000000E+0	0.00000000000000E+0
Node	24	-2.95000000000000E+0	1.91000000000000E+0	0.00000000000000E+0
Node	25	2.95000000000000E+0	1.91000000000000E+0	0.00000000000000E+0
Node	26	-2.95000000000000E+0	2.29000000000000E+0	0.00000000000000E+0
Node	27	2.95000000000000E+0	2.29000000000000E+0	0.00000000000000E+0
Node	28	-2.95000000000000E+0	2.68000000000000E+0	0.00000000000000E+0
Node	29	2.95000000000000E+0	2.68000000000000E+0	0.00000000000000E+0
Node	30	-2.95000000000000E+0	3.07000000000000E+0	0.00000000000000E+0
Node	31	2.95000000000000E+0	3.07000000000000E+0	0.00000000000000E+0



GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

Node	32	-2.950000000000000E+0	3.460000000000000E+0	0.000000000000000E+0
Node	33	2.950000000000000E+0	3.460000000000000E+0	0.000000000000000E+0
Node	34	-2.950000000000000E+0	3.850000000000000E+0	0.000000000000000E+0
Node	35	2.950000000000000E+0	3.850000000000000E+0	0.000000000000000E+0

/ _____

/ BEAM ELEMENTS

Beam	1	2	2	1	2
Beam	2	2	2	2	3
Beam	3	2	2	3	4
Beam	4	2	2	4	5
Beam	5	2	2	5	6
Beam	6	2	2	6	7
Beam	7	2	2	7	8
Beam	8	2	2	8	9
Beam	9	2	2	9	10
Beam	10	2	2	10	11
Beam	11	2	2	11	12
Beam	12	2	2	12	13
Beam	13	2	3	1	14
Beam	14	2	3	14	16
Beam	15	2	3	16	18
Beam	16	2	3	18	20
Beam	17	2	3	20	22
Beam	18	2	3	22	24
Beam	19	2	3	24	26
Beam	20	2	3	26	28
Beam	21	2	3	28	30
Beam	22	2	3	30	32

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B



Beam	23	2	3	32	34
Beam	24	2	3	15	13
Beam	25	2	3	17	15
Beam	26	2	3	19	17
Beam	27	2	3	21	19
Beam	28	2	3	23	21
Beam	29	2	3	25	23
Beam	30	2	3	27	25
Beam	31	2	3	29	27
Beam	32	2	3	31	29
Beam	33	2	3	33	31
Beam	34	2	3	35	33

/ _____

/ BEAM SUPPORTS

BmSupport	1	0.00000000000000E+0	2.00000000000000E+4
BmSupport	2	0.00000000000000E+0	2.00000000000000E+4
BmSupport	3	0.00000000000000E+0	2.00000000000000E+4
BmSupport	4	0.00000000000000E+0	2.00000000000000E+4
BmSupport	5	0.00000000000000E+0	2.00000000000000E+4
BmSupport	6	0.00000000000000E+0	2.00000000000000E+4
BmSupport	7	0.00000000000000E+0	2.00000000000000E+4
BmSupport	8	0.00000000000000E+0	2.00000000000000E+4
BmSupport	9	0.00000000000000E+0	2.00000000000000E+4
BmSupport	10	0.00000000000000E+0	2.00000000000000E+4
BmSupport	11	0.00000000000000E+0	2.00000000000000E+4
BmSupport	12	0.00000000000000E+0	2.00000000000000E+4

/ _____

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

/ NODE RESTRAINTS (ROTATION AS RADIAN)

/ Freedom



NdFreedom 2 1 1 DX
NdFreedom 2 13 1 DX

/ _____

/ BEAM GLOBAL DISTRIBUTED LOADS

/ PERM

BmDistLoadG	3	1	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	2	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	3	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	4	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	5	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	6	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	7	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	8	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	9	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	10	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	11	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	12	Y	1	-1.71000000000000E+1	-1.71000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

/ _____

/ NODE FORCES

/ SPTSX



NdForce 4 1 1.07000000000000E+1 0.00000000000000E+0 0.00000000000000E+0

/ _____

/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPTSX

BmDistLoadG	4	13	X	2	2.93000000000000E+1	2.79000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	4	14	X	2	2.79000000000000E+1	2.66000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	4	15	X	2	2.66000000000000E+1	2.39000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	4	16	X	2	2.39000000000000E+1	2.09000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	4	17	X	2	2.09000000000000E+1	1.79000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	4	18	X	2	1.79000000000000E+1	1.49000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	4	19	X	2	1.49000000000000E+1	1.20000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	4	20	X	2	1.20000000000000E+1	8.97000000000000E+0
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	4	21	X	2	8.97000000000000E+0	5.98000000000000E+0
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	4	22	X	2	5.98000000000000E+0	2.99000000000000E+0
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	4	23	X	2	2.99000000000000E+0	0.00000000000000E+0
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

/ _____

/ NODE FORCES

/ SPTDX



NdForce	5	13	-1.0700000000000E+1	0.0000000000000E+0
				0.0000000000000E+0

/ _____

/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPTDX

BmDistLoadG	5	24	X	2	-2.7900000000000E+1	-2.9300000000000E+1
					0.00	0.00
					0.0000000000000E+0	0.0000000000000E+0
BmDistLoadG	5	25	X	2	-2.6600000000000E+1	-2.7900000000000E+1
					0.00	0.00
					0.0000000000000E+0	0.0000000000000E+0
BmDistLoadG	5	26	X	2	-2.3900000000000E+1	-2.6600000000000E+1
					0.00	0.00
					0.0000000000000E+0	0.0000000000000E+0
BmDistLoadG	5	27	X	2	-2.0900000000000E+1	-2.3900000000000E+1
					0.00	0.00
					0.0000000000000E+0	0.0000000000000E+0
BmDistLoadG	5	28	X	2	-1.7900000000000E+1	-2.0900000000000E+1
					0.00	0.00
					0.0000000000000E+0	0.0000000000000E+0
BmDistLoadG	5	29	X	2	-1.4900000000000E+1	-1.7900000000000E+1
					0.00	0.00
					0.0000000000000E+0	0.0000000000000E+0
BmDistLoadG	5	30	X	2	-1.2000000000000E+1	-1.4900000000000E+1
					0.00	0.00
					0.0000000000000E+0	0.0000000000000E+0
BmDistLoadG	5	31	X	2	-8.9700000000000E+0	-1.2000000000000E+1
					0.00	0.00
					0.0000000000000E+0	0.0000000000000E+0
BmDistLoadG	5	32	X	2	-5.9800000000000E+0	-8.9700000000000E+0
					0.00	0.00
					0.0000000000000E+0	0.0000000000000E+0
BmDistLoadG	5	33	X	2	-2.9900000000000E+0	-5.9800000000000E+0
					0.00	0.00
					0.0000000000000E+0	0.0000000000000E+0
BmDistLoadG	5	34	X	2	0.0000000000000E+0	-2.9900000000000E+0
					0.00	0.00
					0.0000000000000E+0	0.0000000000000E+0

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica E12CLSL13C0002	B

/ _____

/ NODE FORCES

/ SPACCSX

NdForce 7 1 1.3500000000000E+0 0.0000000000000E+0 0.0000000000000E+0



/ _____

/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPACCSX

BmDistLoadG	7	13	X	1	3.8400000000000E+0	3.8400000000000E+0
0.0000000000000E+0					0.00	0.00
BmDistLoadG	7	14	X	1	3.8400000000000E+0	3.8400000000000E+0
0.0000000000000E+0					0.00	0.00
BmDistLoadG	7	15	X	1	3.8400000000000E+0	3.8400000000000E+0
0.0000000000000E+0					0.00	0.00
BmDistLoadG	7	16	X	1	3.8400000000000E+0	3.8400000000000E+0
0.0000000000000E+0					0.00	0.00
BmDistLoadG	7	17	X	1	3.8400000000000E+0	3.8400000000000E+0
0.0000000000000E+0					0.00	0.00
BmDistLoadG	7	18	X	1	3.8400000000000E+0	3.8400000000000E+0
0.0000000000000E+0					0.00	0.00
BmDistLoadG	7	19	X	1	3.8400000000000E+0	3.8400000000000E+0
0.0000000000000E+0					0.00	0.00
BmDistLoadG	7	20	X	1	3.8400000000000E+0	3.8400000000000E+0
0.0000000000000E+0					0.00	0.00
BmDistLoadG	7	21	X	1	3.8400000000000E+0	3.8400000000000E+0
0.0000000000000E+0					0.00	0.00
BmDistLoadG	7	22	X	1	3.8400000000000E+0	3.8400000000000E+0
0.0000000000000E+0					0.00	0.00
BmDistLoadG	7	23	X	1	3.8400000000000E+0	3.8400000000000E+0
0.0000000000000E+0					0.00	0.00

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GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

/ NODE FORCES

/ SPACCDX

NdForce 8 13 -1.35000000000000E+0 0.00000000000000E+0
0.00000000000000E+0



/ _____

/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPACCDX

BmDistLoadG	8	24	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	25	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	26	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	27	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	28	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	29	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	30	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	31	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	32	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	33	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	8	34	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

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GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

/ BEAM GLOBAL DISTRIBUTED LOADS

/ ACC_SOLINF



BmDistLoadG	9	1	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	2	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	3	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	4	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	5	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	6	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	7	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	8	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	9	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	10	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	11	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00
BmDistLoadG	9	12	Y	1	-2.000000000000000E+1	-2.000000000000000E+1
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00

/ _____



/ BEAM GLOBAL DISTRIBUTED LOADS

/ SISMA_H

BmDistLoadG	10	13	X	1	2.940000000000000E+0	2.940000000000000E+0
0.000000000000000E+0	0.000000000000000E+0				0.00	0.00

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

BmDistLoadG	10	14	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	15	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	16	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	17	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	18	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	19	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	20	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	21	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	22	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	23	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	24	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	25	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	26	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	27	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	28	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	29	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B



BmDistLoadG	10	30	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	31	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	32	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	33	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	34	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

/ _____

/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPSSX

BmDistLoadG	11	13	X	1	2.47000000000000E+1	2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	11	14	X	1	2.47000000000000E+1	2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	11	15	X	1	2.47000000000000E+1	2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	11	16	X	1	2.47000000000000E+1	2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	11	17	X	1	2.47000000000000E+1	2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	11	18	X	1	2.47000000000000E+1	2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	11	19	X	1	2.47000000000000E+1	2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	11	20	X	1	2.47000000000000E+1	2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	11	21	X	1	2.47000000000000E+1	2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

BmDistLoadG	11	22	X	1	2.47000000000000E+1	2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	11	23	X	1	2.47000000000000E+1	2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00



/ _____

/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPSDX

BmDistLoadG	12	24	X	1	-2.47000000000000E+1	-2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	25	X	1	-2.47000000000000E+1	-2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	26	X	1	-2.47000000000000E+1	-2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	27	X	1	-2.47000000000000E+1	-2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	28	X	1	-2.47000000000000E+1	-2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	29	X	1	-2.47000000000000E+1	-2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	30	X	1	-2.47000000000000E+1	-2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	31	X	1	-2.47000000000000E+1	-2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	32	X	1	-2.47000000000000E+1	-2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	33	X	1	-2.47000000000000E+1	-2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	34	X	1	-2.47000000000000E+1	-2.47000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00



/ _____

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

/ BEAM PROPERTIES

BeamProp 2 "Fondazione"
MaterialName "Concrete:"
Modulus 3.36000000000000E+7
ShearMod 1.29000000000000E+7
Poisson 1.50000000000000E-1
UsePoisson TRUE
Density 2.50000000000000E+3
Expansion 1.00000000000000E-5
ThermalCond 1.37000000000000E+0
SpecificHeat 8.80000000000000E+2
Area 7.00000000000000E-1
MomentI11 2.86000000000000E-2
MomentI22 5.83000000000000E-2
MomentJ 1.00000000000000E-1
SectionType SolidRect
B 1.00000000000000E+0
D 7.00000000000000E-1
NonLinType Elasticplastic
Hardening Isotropic

BeamProp 3 "piedritti"
MaterialName "Rck"
Modulus 3.36000000000000E+7
ShearMod 1.29000000000000E+7
Poisson 1.50000000000000E-1
UsePoisson TRUE
Density 2.50000000000000E+3
Expansion 1.00000000000000E-5

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

```

ThermalCond      1.3700000000000000E+0
SpecificHeat     8.8000000000000000E+2
Area             4.0000000000000000E-1
MomentI11       5.3300000000000000E-3
MomentI22       3.3300000000000000E-2
MomentJ         1.0000000000000000E-1
SectionType     SolidRect
  B             1.0000000000000000E+0
  D             4.0000000000000000E-1
NonLinType      Elasticplastic
Hardening       Isotropic

```

1.3 SEZIONE 3

/ _____

/ STRAUS7 MODEL EXCHANGE FILE

/ _____

/ MODEL INFORMATION



```

FileFormat      Straus7.2.3.3
ModelName       "SEZ.03_ver2.3"
Title           ""
Project         ""
Author          ""
Reference       ""
Comments        ""

```

/ _____

/ UNITS

GENERAL CONTRACTOR  IRICAV2	ALTA SORVEGLIANZA  ITALFERR GRUPPO FERROVIE DELLO STATO ITALIANE			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

LengthUnit m
MassUnit kg
EnergyUnit J
PressureUnit kPa
ForceUnit kN
TemperatureUnit C

/ _____

/ GROUP DEFINITIONS

Group 1 16711680 "\Model"
Group 2 3355647 "0"

/ _____

/ FREEDOM CASE DEFINITIONS

FreedomCase 2 0 0 "Freedom"
DZ RX RY


/ _____

/ LOAD CASE DEFINITIONS

LoadCase 2 1 "PP"
Gravity 2 -9.810000000000000E+0
LCInclude 3

LoadCase 3 0 "PERM"
LCInclude 3

LoadCase 4 0 "SPTSX"

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

LCInclude 3

LoadCase 5 0 "SPTDX"

LCInclude 3

LoadCase 6 0 "SPTW"

LCInclude 3

LoadCase 7 0 "SPACCSX"

LCInclude 3

LoadCase 8 0 "SPACCDX"

LCInclude 3

LoadCase 9 0 "ACC_SOLINF"

LCInclude 3

LoadCase 10 0 "SISMA_H"

LCInclude 3

LoadCase 11 0 "SPSSX"



LCInclude 3

LoadCase 12 0 "SPSDX"

LCInclude 3

/ _____

/ LOAD CASE COMBINATIONS

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

LoadCaseCombination 13 "SLU01"

- 2 1.35000000000000E+0
- 3 1.50000000000000E+0
- 4 1.35000000000000E+0
- 5 1.35000000000000E+0
- 6 1.00000000000000E+0
- 7 1.50000000000000E+0
- 9 1.50000000000000E+0

LoadCaseCombination 14 "SLU02"

- 2 1.35000000000000E+0
- 3 1.50000000000000E+0
- 4 1.35000000000000E+0
- 5 1.00000000000000E+0
- 6 1.35000000000000E+0
- 7 1.50000000000000E+0
- 9 1.50000000000000E+0

LoadCaseCombination 15 "SLU03"

- 2 1.35000000000000E+0
- 3 1.50000000000000E+0
- 4 1.00000000000000E+0
- 5 1.00000000000000E+0
- 6 1.00000000000000E+0
- 7 1.50000000000000E+0
- 8 1.50000000000000E+0
- 9 1.50000000000000E+0

LoadCaseCombination 16 "SLU04"

- 2 1.35000000000000E+0

GENERAL CONTRACTOR  IRICAV2	ALTA SORVEGLIANZA  ITALFERR GRUPPO FERROVIE DELLO STATO ITALIANE			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B



- 3 1.5000000000000000E+0
- 4 1.3500000000000000E+0
- 5 1.3500000000000000E+0
- 6 1.3500000000000000E+0
- 7 1.5000000000000000E+0
- 8 1.5000000000000000E+0
- 9 1.5000000000000000E+0

LoadCaseCombination 17 "SLU05"

- 2 1.0000000000000000E+0
- 3 1.0000000000000000E+0
- 4 1.3500000000000000E+0
- 5 1.3500000000000000E+0
- 6 1.3500000000000000E+0
- 7 1.5000000000000000E+0
- 8 1.5000000000000000E+0
- 9 1.5000000000000000E+0

LoadCaseCombination 18 "SLU_SISMA01"

- 2 1.0000000000000000E+0
- 3 1.0000000000000000E+0
- 4 1.0000000000000000E+0
- 5 1.0000000000000000E+0
- 6 1.0000000000000000E+0
- 7 2.0000000000000000E-1
- 8 2.0000000000000000E-1
- 9 2.0000000000000000E-1
- 10 1.0000000000000000E+0
- 11 1.0000000000000000E+0
- 12 1.0000000000000000E+0

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

LoadCaseCombination 19 "SLU_SISMA02"



- 2 1.000000000000000E+0
- 3 1.000000000000000E+0
- 4 1.000000000000000E+0
- 5 1.000000000000000E+0
- 6 1.000000000000000E+0
- 7 2.000000000000000E-1
- 8 2.000000000000000E-1
- 9 2.000000000000000E-1
- 10 1.000000000000000E+0
- 11 1.000000000000000E+0
- 12 -1.000000000000000E+0

LoadCaseCombination 20 "SLE_RARA01"

- 2 1.000000000000000E+0
- 3 1.000000000000000E+0
- 4 1.000000000000000E+0
- 5 1.000000000000000E+0
- 6 1.000000000000000E+0
- 7 1.000000000000000E+0
- 8 1.000000000000000E+0
- 9 1.000000000000000E+0

LoadCaseCombination 21 "SLE_RARA02"

- 2 1.000000000000000E+0
- 3 1.000000000000000E+0
- 4 1.000000000000000E+0
- 5 8.000000000000000E-1
- 6 1.000000000000000E+0

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

7 1.000000000000000E+0

9 1.000000000000000E+0

LoadCaseCombination 22 "SLE_QPERM01"

2 1.000000000000000E+0

3 1.000000000000000E+0

4 1.000000000000000E+0

5 1.000000000000000E+0

6 1.000000000000000E+0

LoadCaseCombination 23 "SLE_FREQ01"

2 1.000000000000000E+0

3 1.000000000000000E+0

4 1.000000000000000E+0

5 8.000000000000000E-1

6 1.000000000000000E+0

7 7.500000000000000E-1



9 7.500000000000000E-1

/ COORDINATE SYSTEM DEFINITIONS



CoordSys 1 "Global XYZ" GlobalXYZ

CoordSys 2 "Global" GlobalXYZ

/ NODE COORDINATES

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

Node	1	-2.95000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	2	-2.85000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	3	-2.75000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	4	-2.06000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	5	-1.38000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	6	-6.88000000000000E-1	0.00000000000000E+0	0.00000000000000E+0
Node	7	0.00000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	8	6.88000000000000E-1	0.00000000000000E+0	0.00000000000000E+0
Node	9	1.38000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	10	2.06000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	11	2.75000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	12	2.85000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	13	2.95000000000000E+0	0.00000000000000E+0	0.00000000000000E+0
Node	14	-2.95000000000000E+0	1.25000000000000E-1	0.00000000000000E+0
Node	15	2.95000000000000E+0	1.25000000000000E-1	0.00000000000000E+0
Node	16	-2.95000000000000E+0	2.50000000000000E-1	0.00000000000000E+0
Node	17	2.95000000000000E+0	2.50000000000000E-1	0.00000000000000E+0
Node	18	-2.95000000000000E+0	5.06000000000000E-1	0.00000000000000E+0
Node	19	2.95000000000000E+0	5.06000000000000E-1	0.00000000000000E+0
Node	20	-2.95000000000000E+0	7.61000000000000E-1	0.00000000000000E+0
Node	21	2.95000000000000E+0	7.61000000000000E-1	0.00000000000000E+0
Node	22	-2.95000000000000E+0	1.02000000000000E+0	0.00000000000000E+0
Node	23	2.95000000000000E+0	1.02000000000000E+0	0.00000000000000E+0
Node	24	-2.95000000000000E+0	1.27000000000000E+0	0.00000000000000E+0
Node	25	2.95000000000000E+0	1.27000000000000E+0	0.00000000000000E+0
Node	26	-2.95000000000000E+0	1.53000000000000E+0	0.00000000000000E+0
Node	27	2.95000000000000E+0	1.53000000000000E+0	0.00000000000000E+0
Node	28	-2.95000000000000E+0	1.78000000000000E+0	0.00000000000000E+0
Node	29	2.95000000000000E+0	1.78000000000000E+0	0.00000000000000E+0



GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

Node	30	-2.950000000000000E+0	2.040000000000000E+0	0.000000000000000E+0
Node	31	2.950000000000000E+0	2.040000000000000E+0	0.000000000000000E+0
Node	32	-2.950000000000000E+0	2.290000000000000E+0	0.000000000000000E+0
Node	33	2.950000000000000E+0	2.290000000000000E+0	0.000000000000000E+0
Node	34	-2.950000000000000E+0	2.550000000000000E+0	0.000000000000000E+0
Node	35	2.950000000000000E+0	2.550000000000000E+0	0.000000000000000E+0

/ _____

/ BEAM ELEMENTS

Beam	1	2	2	1	2
Beam	2	2	2	2	3
Beam	3	2	2	3	4
Beam	4	2	2	4	5
Beam	5	2	2	5	6
Beam	6	2	2	6	7
Beam	7	2	2	7	8
Beam	8	2	2	8	9
Beam	9	2	2	9	10
Beam	10	2	2	10	11
Beam	11	2	2	11	12
Beam	12	2	2	12	13
Beam	13	2	3	1	14
Beam	14	2	3	14	16
Beam	15	2	3	16	18
Beam	16	2	3	18	20
Beam	17	2	3	20	22
Beam	18	2	3	22	24
Beam	19	2	3	24	26
Beam	20	2	3	26	28



GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

Beam	21	2	3	28	30
Beam	22	2	3	30	32
Beam	23	2	3	32	34
Beam	24	2	3	15	13
Beam	25	2	3	17	15
Beam	26	2	3	19	17
Beam	27	2	3	21	19
Beam	28	2	3	23	21
Beam	29	2	3	25	23
Beam	30	2	3	27	25
Beam	31	2	3	29	27
Beam	32	2	3	31	29
Beam	33	2	3	33	31
Beam	34	2	3	35	33

/ _____

/ BEAM SUPPORTS

BmSupport	1	0.00000000000000E+0	1.50000000000000E+4
BmSupport	2	0.00000000000000E+0	1.50000000000000E+4
BmSupport	3	0.00000000000000E+0	1.50000000000000E+4
BmSupport	4	0.00000000000000E+0	1.50000000000000E+4
BmSupport	5	0.00000000000000E+0	1.50000000000000E+4
BmSupport	6	0.00000000000000E+0	1.50000000000000E+4
BmSupport	7	0.00000000000000E+0	1.50000000000000E+4
BmSupport	8	0.00000000000000E+0	1.50000000000000E+4
BmSupport	9	0.00000000000000E+0	1.50000000000000E+4
BmSupport	10	0.00000000000000E+0	1.50000000000000E+4
BmSupport	11	0.00000000000000E+0	1.50000000000000E+4
BmSupport	12	0.00000000000000E+0	1.50000000000000E+4

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

/ _____

/ NODE RESTRAINTS (ROTATION AS RADIAN)

/ Freedom



NdFreedom 2 1 1 DX
NdFreedom 2 13 1 DX

/ _____

/ BEAM GLOBAL DISTRIBUTED LOADS

/ PERM

BmDistLoadG	3	1	Y	1	-1.53000000000000E+1	-1.53000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	2	Y	1	-1.53000000000000E+1	-1.53000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	3	Y	1	-1.53000000000000E+1	-1.53000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	4	Y	1	-1.53000000000000E+1	-1.53000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	5	Y	1	-1.53000000000000E+1	-1.53000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	6	Y	1	-1.53000000000000E+1	-1.53000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	7	Y	1	-1.53000000000000E+1	-1.53000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	8	Y	1	-1.53000000000000E+1	-1.53000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	9	Y	1	-1.53000000000000E+1	-1.53000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	10	Y	1	-1.53000000000000E+1	-1.53000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			
BmDistLoadG	3	11	Y	1	-1.53000000000000E+1	-1.53000000000000E+1
0.00000000000000E+0	0.00000000000000E+0	0.00	0.00			

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

```

BmDistLoadG      3   12   Y   1  -1.53000000000000E+1  -1.53000000000000E+1
0.00000000000000E+0  0.00000000000000E+0    0.00    0.00

```

/ _____

/ NODE FORCES

/ SPTSX

```

NdForce          4   1  5.13000000000000E+0  0.00000000000000E+0  0.00000000000000E+0

```

/ _____

/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPTSX

```

BmDistLoadG      4   13   X   2  1.96000000000000E+1  1.86000000000000E+1
0.00000000000000E+0  0.00000000000000E+0    0.00    0.00

BmDistLoadG      4   14   X   2  1.86000000000000E+1  1.76000000000000E+1
0.00000000000000E+0  0.00000000000000E+0    0.00    0.00

BmDistLoadG      4   15   X   2  1.76000000000000E+1  1.57000000000000E+1
0.00000000000000E+0  0.00000000000000E+0    0.00    0.00

BmDistLoadG      4   16   X   2  1.57000000000000E+1  1.38000000000000E+1
0.00000000000000E+0  0.00000000000000E+0    0.00    0.00

BmDistLoadG      4   17   X   2  1.38000000000000E+1  1.18000000000000E+1
0.00000000000000E+0  0.00000000000000E+0    0.00    0.00

BmDistLoadG      4   18   X   2  1.18000000000000E+1  9.82000000000000E+0
0.00000000000000E+0  0.00000000000000E+0    0.00    0.00



BmDistLoadG      4   19   X   2  9.82000000000000E+0  7.86000000000000E+0
0.00000000000000E+0  0.00000000000000E+0    0.00    0.00

BmDistLoadG      4   20   X   2  7.86000000000000E+0  5.89000000000000E+0
0.00000000000000E+0  0.00000000000000E+0    0.00    0.00

BmDistLoadG      4   21   X   2  5.89000000000000E+0  3.93000000000000E+0
0.00000000000000E+0  0.00000000000000E+0    0.00    0.00

BmDistLoadG      4   22   X   2  3.93000000000000E+0  1.96000000000000E+0
0.00000000000000E+0  0.00000000000000E+0    0.00    0.00

```

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

BmDistLoadG 4 23 X 2 1.960000000000000E+0 0.000000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

/ _____

/ NODE FORCES

/ SPTDX

NdForce 5 13 -5.130000000000000E+0 0.000000000000000E+0
0.000000000000000E+0

/ _____

/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPTDX

BmDistLoadG 5 24 X 2 -1.860000000000000E+1 -1.960000000000000E+1
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 5 25 X 2 -1.760000000000000E+1 -1.860000000000000E+1
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 5 26 X 2 -1.570000000000000E+1 -1.760000000000000E+1
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 5 27 X 2 -1.380000000000000E+1 -1.570000000000000E+1
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 5 28 X 2 -1.180000000000000E+1 -1.380000000000000E+1
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00



BmDistLoadG 5 29 X 2 -9.820000000000000E+0 -1.180000000000000E+1
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 5 30 X 2 -7.860000000000000E+0 -9.820000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 5 31 X 2 -5.890000000000000E+0 -7.860000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 5 32 X 2 -3.930000000000000E+0 -5.890000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 5 33 X 2 -1.960000000000000E+0 -3.930000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

BmDistLoadG 5 34 X 2 0.000000000000000E+0 -1.960000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

/ _____

/ NODE FORCES

/ SPACCSX

NdForce 7 1 9.610000000000000E-1 0.000000000000000E+0 0.000000000000000E+0

/ _____

/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPACCSX

BmDistLoadG 7 13 X 1 3.840000000000000E+0 3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 7 14 X 1 3.840000000000000E+0 3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 7 15 X 1 3.840000000000000E+0 3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 7 16 X 1 3.840000000000000E+0 3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 7 17 X 1 3.840000000000000E+0 3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00



BmDistLoadG 7 18 X 1 3.840000000000000E+0 3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 7 19 X 1 3.840000000000000E+0 3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 7 20 X 1 3.840000000000000E+0 3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 7 21 X 1 3.840000000000000E+0 3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 7 22 X 1 3.840000000000000E+0 3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

BmDistLoadG 7 23 X 1 3.840000000000000E+0 3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

/ _____

/ NODE FORCES

/ SPACCDX

NdForce 8 13 -9.610000000000000E-1 0.000000000000000E+0 0.000000000000000E+0

/ _____

/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPACCDX

BmDistLoadG 8 24 X 1 -3.840000000000000E+0 -3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 8 25 X 1 -3.840000000000000E+0 -3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 8 26 X 1 -3.840000000000000E+0 -3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 8 27 X 1 -3.840000000000000E+0 -3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 8 28 X 1 -3.840000000000000E+0 -3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00



BmDistLoadG 8 29 X 1 -3.840000000000000E+0 -3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 8 30 X 1 -3.840000000000000E+0 -3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 8 31 X 1 -3.840000000000000E+0 -3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 8 32 X 1 -3.840000000000000E+0 -3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

BmDistLoadG 8 33 X 1 -3.840000000000000E+0 -3.840000000000000E+0
0.000000000000000E+0 0.000000000000000E+0 0.00 0.00

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

BmDistLoadG	8	34	X	1	-3.84000000000000E+0	-3.84000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

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/ BEAM GLOBAL DISTRIBUTED LOADS

/ ACC_SOLINF

BmDistLoadG	9	1	Y	1	-2.00000000000000E+1	-2.00000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

BmDistLoadG	9	2	Y	1	-2.00000000000000E+1	-2.00000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

BmDistLoadG	9	3	Y	1	-2.00000000000000E+1	-2.00000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

BmDistLoadG	9	4	Y	1	-2.00000000000000E+1	-2.00000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

BmDistLoadG	9	5	Y	1	-2.00000000000000E+1	-2.00000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

BmDistLoadG	9	6	Y	1	-2.00000000000000E+1	-2.00000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

BmDistLoadG	9	7	Y	1	-2.00000000000000E+1	-2.00000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

BmDistLoadG	9	8	Y	1	-2.00000000000000E+1	-2.00000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00



BmDistLoadG	9	9	Y	1	-2.00000000000000E+1	-2.00000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

BmDistLoadG	9	10	Y	1	-2.00000000000000E+1	-2.00000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

BmDistLoadG	9	11	Y	1	-2.00000000000000E+1	-2.00000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

BmDistLoadG	9	12	Y	1	-2.00000000000000E+1	-2.00000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00



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GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
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/ BEAM GLOBAL DISTRIBUTED LOADS

/ SISMA_H

BmDistLoadG	10	13	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	14	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	15	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	16	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	17	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	18	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	19	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	20	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	21	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	22	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	23	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	24	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	25	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	26	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	27	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

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BmDistLoadG	10	28	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	29	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	30	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	31	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	32	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	33	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	10	34	X	1	2.94000000000000E+0	2.94000000000000E+0
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

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/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPSSX

BmDistLoadG	11	13	X	1	1.65000000000000E+1	1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	11	14	X	1	1.65000000000000E+1	1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	11	15	X	1	1.65000000000000E+1	1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	11	16	X	1	1.65000000000000E+1	1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	11	17	X	1	1.65000000000000E+1	1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	11	18	X	1	1.65000000000000E+1	1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	11	19	X	1	1.65000000000000E+1	1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
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BmDistLoadG	11	20	X	1	1.65000000000000E+1	1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	11	21	X	1	1.65000000000000E+1	1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	11	22	X	1	1.65000000000000E+1	1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	11	23	X	1	1.65000000000000E+1	1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

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/ BEAM GLOBAL DISTRIBUTED LOADS

/ SPSDX

BmDistLoadG	12	24	X	1	-1.65000000000000E+1	-1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	25	X	1	-1.65000000000000E+1	-1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	26	X	1	-1.65000000000000E+1	-1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	27	X	1	-1.65000000000000E+1	-1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	28	X	1	-1.65000000000000E+1	-1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	29	X	1	-1.65000000000000E+1	-1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	30	X	1	-1.65000000000000E+1	-1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	31	X	1	-1.65000000000000E+1	-1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	32	X	1	-1.65000000000000E+1	-1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00
BmDistLoadG	12	33	X	1	-1.65000000000000E+1	-1.65000000000000E+1
0.00000000000000E+0	0.00000000000000E+0				0.00	0.00

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BmDistLoadG 12 34 X 1 -1.65000000000000E+1 -1.65000000000000E+1
0.00000000000000E+0 0.00000000000000E+0 0.00 0.00

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/ BEAM PROPERTIES

BeamProp 2 "Fondazione"
MaterialName "Concrete:"
Modulus 3.36000000000000E+7
ShearMod 1.29000000000000E+7
Poisson 1.50000000000000E-1
UsePoisson TRUE
Density 2.50000000000000E+3
Expansion 1.00000000000000E-5
ThermalCond 1.37000000000000E+0
SpecificHeat 8.80000000000000E+2
Area 5.00000000000000E-1
MomentI11 1.04000000000000E-2
MomentI22 4.17000000000000E-2
MomentJ 1.00000000000000E-1
SectionType SolidRect
B 1.00000000000000E+0
D 5.00000000000000E-1
NonLinType Elasticplastic
Hardening Isotropic

BeamProp 3 "piedritti"
MaterialName "Rck"
Modulus 3.36000000000000E+7
ShearMod 1.29000000000000E+7

GENERAL CONTRACTOR 	ALTA SORVEGLIANZA 			
	Progetto IN17	Lotto 12	Codifica EI2CLSL13C0002	B

Poisson 1.50000000000000E-1
UsePoisson TRUE
Density 2.50000000000000E+3
Expansion 1.00000000000000E-5
ThermalCond 1.37000000000000E+0
SpecificHeat 8.80000000000000E+2
Area 4.00000000000000E-1
MomentI11 5.33000000000000E-3
MomentI22 3.33000000000000E-2
MomentJ 1.00000000000000E-1
SectionType SolidRect
B 1.00000000000000E+0
D 4.00000000000000E-1
NonLinType Elasticplastic
Hardening Isotropic