KAUFHAUS BOZEN

DAS INFRASTRUKTURPROJEKT
IL PROGETTO INFRASTRUTTURALE

Relazione di predimensionamento delle strutture
Bericht zur Vordimensionierung der Tragwerke

Y:\ATAENG\AE.13.0043\02 Lavoro\02 PRELIMINARE\03 PROGETTO DELL'OPERA\2014 07 28 - REVISIONE BANDO\B.B.11 - KHBZ - COPERTINA STRUTTURE.dwg

Bearbeitet-Elaborato: .	Maßstab-Scala -	Nr.	**B.b.11**
Datum-Data: LUGLIO 2014		Einlage-Nr.	-

Änderungen-Varianti	Datum-Data	bear. / rev.
a -	30.07.2014	-
b -	-	-
c -	-	-
d -	-	-

Bauherr/Committente:

SIGNA

KHB Kaufhaus Bozen GmbH
Eine Gesellschaft der SIGNA Gruppe.

General Contractor - Projektmanagement:

ICM Italia General Contractor Srl

Planungsteam/Team di Progettazione:

ataengineering
AE 13.0043

Büro für Verkehrs- und Raumplanung
BVR

plan punkt

quality austria
Erfolg mit Qualität

INGENIEURTEAM STUDIO DI INGEGNERIA
BERGMEISTER

1 PREMESSA

Nella presente relazione si affronta il calcolo strutturale di pre-dimensionamento relativo alle opere da realizzarsi nell'ambito del Progetto Preliminare per la realizzazione della viabilità d'accesso al nuovo centro commerciale ed alla nuova stazione delle corriere a Bolzano.

Nello specifico viene di seguito riportato il calcolo delle strutture relative alla galleria artificiale e relative alla passerella ciclopedonale posta a scavalco della viabilità di nuova realizzazione in prossimità di via del Macello.

La costruzione della galleria artificiale è prevista per mezzo dell'utilizzo della tecnologia "top down".

Tale tecnologia, tipicamente utilizzata nell'ambito della realizzazione di strutture interrate in contesti densamente urbanizzati, consiste nella realizzazione, preliminarmente alle fasi di scavo, di paratie costituite da diaframmi in c.a., dalla successiva realizzazione del solaio di copertura e quindi all'approfondimento dello scavo fino alla quota d'imposta delle fondazioni.
La realizzazione del solaio di copertura garantisce un vincolo posto in testa alla paratia e quindi la possibilità dell'approfondimento dello scavo senza la necessità della realizzazione di tiranti.
Una volta raggiunta la quota di fondo scavo si procede quindi alla realizzazione di fondazioni ed elevazioni fino a riportarsi al solaio di copertura già realizzato.

La struttura della passerella, avente luce pari a 23 m, è costituita da tre travi metalliche di altezza totale esterna pari a 1.0 m, collegate da traversi realizzati con travi in acciaio ad anima piena.
Il piano dell'impalcato viene realizzato con la posa di lastre predalle prefabbricate in calcestruzzo, ordite tra una trave e l'altra, e da successivo getto collaborante di calcestruzzo.
La soletta ha uno spessore totale pari a 25 cm
La collaborazione tra soletta in c.a. e travi metalliche viene garantita tramite opportuna piolatura.

La passerella è classificata come un ponte di 3^{a} categoria ed è pertanto soggetta ai carichi variabili individuati nello Schema di carico n.5 così come definito in N.T.C. 14.01.2008.

1 PRÄMISSE

Im gegenständlichen Bericht wird die statische Berechnung der Vorbemessungen bezüglich der Arbeiten des Vorprojektes zur Realisierung des Verkehrsnetzes der Zufahrten zum neuen Kaufhaus und des neuen Busbahnhofes in Bozen wiedergegeben.

Spezifisch werden in Folge die Berechnungen der Strukturen bezüglich der Gallerie und bezüglich des Geh-Radweges, welcher anhand einer Brücke die Mayer-Nusser Straße überqueren soll und somit das Geh-Radwegnetz in das Ortszentrum führt, angeführt.

Für die Realisierung der Gallerie wird die Technik „top down“ angewandt.

Diese Technologie, welche typisch für die Realisierung von unterirdischen Strukturen im städtebaulichen Bereich ist, setzt sich aus den Aushubarbeiten, der Realisierung beidseitiger Schlitzwände in Stahlbeton und der Realisierung der darauffolgenden Stahlbetondecke über den beidseitigen Schlitzwänden zusammen. In Folge dieser Arbeiten findet der Aushub im Inneren der bereits realisierten Strukturen bis zur Kote der Fundamente statt.
Die Realisierung der Stahlbetondecke garantiert dabei eine Belastung, welche sich auf die Oberkante der Schlitzwände auswirkt und dadurch auch die Möglichkeit eines vertieften Aushubes ohne Bedarf zusätzlicher Verankerungen.
Nach Beendigung des Aushubes bis zur geplanten Kote können somit die Fundamente und Auffüllungen in Abhängigkeit von der bereits realisierten Decke realisiert bzw. durchgeführt werden.

Die Struktur der Brücke, welche sich über eine Länge von 23m erstreckt, besteht aus 3 Stahlträgern in Längsrichtung mit einer Gesamthöhe von 1,0m, welche mit Vollprofilen als Querträger verbunden werden. Die Decke wird mit vorgefertigten Fertigteilen realisiert. Diese soll auf den Trägern aufliegen und anschließend mit Beton ausgegossen werden. Die fertige Decke erhält eine Stärke von 25cm.
Um die Zusammenwirkung zwischen Betondecke und Stahlträgern zu garantieren werden geeignete Kopfbolzen vorgesehen.

Die Geh-Radwegüberquerung wird als Brücke der 3. Kategorie eingestuft und ist somit den variablen Lasten, erkennbar aus dem Belastungsschema Nr. 5 wie im N.T.C. 14.01.2008 definiert, unterworfen.

2 NORME E RIFERIMENTI DI PROGETTAZIONE

- **NTC 2008** D.M. 14 gennaio 2008: "Norme Tecniche per le Costruzioni";
- **Circolare Esplicativa** Norme Tecniche per le Costruzioni n. 617 del 2 febbraio 2009;

Riferimenti di progettazione

Quando non in contrasto con la normativa adottata, si assumono come riferimenti di progettazione le seguenti norme:

- **UNI EN 1992**-1 e ss: Eurocodice 2: Progettazione delle strutture di calcestruzzo;
- **UNI EN 1993**-1 e ss: Eurocodice 3: Progettazione delle strutture in acciaio;
- **UNI EN 1997**-1 e ss: Eurocodice 7: Progettazione Geotecnica;
- **UNI EN 1998-1** e ss: Eurocodice 8: Indicazioni progettuali per la resistenza sismica delle strutture;
- **CNR UNI 10011** - Costruzioni in acciaio: Istruzioni per il calcolo, l'esecuzione, il collaudo e la manutenzione

2 GESETZE UND NORMEN

- **NTC 2008** D.M. 14 gennaio 2008: "Norme Tecniche per le Costruzioni";
- **Circolare Esplicativa** Norme Tecniche per le Costruzioni n. 617 del 2 febbraio 2009;

Eurocode

- **UNI EN 1992**-1 e ss: Eurocodice 2: Progettazione delle strutture di calcestruzzo;
- **UNI EN 1993**-1 e ss: Eurocodice 3: Progettazione delle strutture in acciaio;
- **UNI EN 1997**-1 e ss: Eurocodice 7: Progettazione Geotecnica;
- **UNI EN 1998-1** e ss: Eurocodice 8: Indicazioni progettuali per la resistenza sismica delle strutture;
- **CNR UNI 10011** - Costruzioni in acciaio: Istruzioni per il calcolo, l'esecuzione, il collaudo e la manutenzione

3 MATERIALI UTILIZZATI

3.1 Strutture in acciaio

3.1.1 Acciaio da carpenteria metallica S 355 J2

Acciaio con caratteristiche meccaniche rispondenti alla EN 10025 come indicato dal D.M. 14-01-2008.

f_{tk}	=	510.0 MPa tensione caratteristica di rottura
f_{yk}	=	355 MPa tensione caratteristica di snervamento
f_{yd}	=	f_{yt} / γ_{M0} = 338 ; γ_{M0} =1.05 per le verifiche a resistrenza
f_{yd}	=	f_{yt} / γ_{M1} = 322 ; γ_{M1} =1.10 per le verifiche di stabilità delle membrature ponti

3.1.2 Bullonature

Secondo UNI EN 20898

Giunzioni ad attrito i = 0.45

Viti classe 10.9 (UNI 5712); Dadi classe 10 (UNI 5713)

Rosette in acciaio C50 UNI EN 10083-2 (HRC 32-40) (UNI 5714)

3.1.3 Saldature

Secondo D.M. Infrastrutture e Trasporti 14-01-2008

Saldature con i procedimenti codificati secondo ISO 4063 e prescrizioni della EN 1011 e EN 29692. Controlli secondo la EN 12062.

3 MATERIALIEN

3.1 Stahlstrukturen

3.1.1 Formstahl S 355 J2

Stahl mit mechanischen Eigenschaften nach EN 10025 wie von DM angegeben 14-01-2008.

f_{tk}	=	510.0 MPa charakteristische Zugfestigkeit
f_{yk}	=	355 MPa charakteristische Streckgrenze
f_{yd}	=	f_{yt} / γ_{M0} = 338 ; γ_{M0} =1.05 für die Nachweis der Trägfähigkeit ULS
f_{yd}	=	f_{yt} / γ_{M1} = 322 ; γ_{M1} =1.10 für die Nachweis der Knicksicherheit ULS

3.1.2 Schrauben

nach UNI EN 20898

Schraubenverbindung mit Reibung i = 0.45

Festigkeitsklasse Schraube **10.9** (UNI 5712); Festigkeitsklasse Mutter 10 (UNI 5713)

Unterlegscheiben C50 UNI EN 10083-2 (HRC 32-40) (UNI 5714)

3.1.3 Schweißnähte

nach MD “Infrastruktueren und Transporte” 14-01-2008

Schweißnähte mit Verfahren gemäß den Anforderungen der ISO 4063 und EN-1011 nach bedarf der EN 29692. Prüfung nach EN 12062.

3.2 Strutture in c.a.

3.2.1 Calcestruzzo per fondazioni, elevazioni e solette Rck>45 MPa (C 35/45)

R_{ck}	>	45.0 MPa resistenza caratteristica cubica a 28 giorni
f_{ck}	>	37.0 MPa resistenza caratteristica cilindrica a 28 giorni

3.2.2 Calcestruzzo per diaframmi Rck>30 MPa (C 25/30)

R_{ck}	>	30.0 MPa resistenza caratteristica cubica a 28 giorni
f_{ck}	>	24.9 MPa resistenza caratteristica cilindrica a 28 giorni

3.2 Stahlbetonstrukturen

3.2.1 Beton für Fundamente, Wände, und Platten Rck>45 MPa (C 35/45)

R_{ck} > 45.0 MPa charakteristische Würfeldruckfestigkeit des Betons im Alter vom 28d

f_{ck} > 37.0 MPa charakteristische Zylinderdruckfestigkeit des Betons im Alter vom 28d

3.2.2 Beton für Schlitzwände Rck>30 MPa (C 25/30)

R_{ck} > 30.0 MPa charakteristische Würfeldruckfestigkeit des Betons im Alter vom 28d

f_{ck} > 24.9 MPa charakteristische Zylinderdruckfestigkeit des Betons im Alter vom 28d

3.2.3 Acciaio in barre ad aderenza migliorata B 450 C

B 450 C (controllato in stabilimento)

f_{yk}	=	450.0 MPa tensione caratteristica di snervamento
f_{yd}	=	f_{yk} / 1.15 = 391 MPa resistenza caratteristica cilindrica a 28 giorni
E_S	=	210 000 MPa modulo elastico

Stato limite di esercizio SLE:

$\sigma_S = 0.80 \times f_{yk} = 360$ MPa

3.2.4 Reti elettrosaldate B 450 A

B 450 A (controllato in stabilimento)

f_{yk}	=	450.0 MPa	tensione caratteristica di snervamento
f_{yd}	=	f_{yk} / 1.15 = 391 MPa	tensione di calcolo
E_S	=	210 000 MPa	modulo elastico

Stato limite di esercizio SLE:

$\sigma_S = 0.80 \times f_{yk} = 360$ MPa

3.2.3 Gerippter Stahl

B 450 C

f_{yk}	=	450.0 MPa charakteristische Streckgrenze
f_{yd}	=	f_{yk} / 1.15 = 391 MPa Bemessungswert der Streckgrenze
E_S	=	210 000 MPa Elastizitätsmodul

Grenzzustand der Gebrauchstauglichkeit ULS:

$\sigma_S = 0.80 \times f_{yk} = 360$ MPa

3.2.4 Betonstahlmatten B 450 A

B 450 A (controllato in stabilimento)

f_{yk}	=	450.0 MPa	charakteristische Streckgrenze
f_{yd}	=	f_{yk} / 1.15 = 391 MPa	Bemessungswert der Streckgrenze
E_S	=	210 000 MPa	Elastizitätsmodul

Grenzzustand der Gebrauchstauglichkeit ULS:

$\sigma_S = 0.80 \times f_{yk} = 360$ MPa

3.2.5 Stato limite di apertura delle fessure

In relazione all'aggressività dell'ambiente ed alla sensibilità dell'acciaio, l'apertura limite delle fessure è riportata nel prospetto seguente:

Gruppi di esigenze	Condizioni ambientali	Combinazione di azioni	Armatura			
			Sensibile		Poco sensibile	
			Stato limite	w_d	Stato limite	w_d
a	Ordinarie	frequente	ap. fessure	$\leq w_2$	ap. fessure	$\leq w_3$
		quasi permanente	ap. fessure	$\leq w_1$	ap. fessure	$\leq w_2$
b	Aggressive	frequente	ap. fessure	$\leq w_1$	ap. fessure	$\leq w_2$
		quasi permanente	decompressione	-	ap. fessure	$\leq w_1$
c	Molto aggressive	frequente	formazione fessure	-	ap. fessure	$\leq w_1$
		quasi permanente	decompressione	-	ap. fessure	$\leq w_1$

I valori limite sono pari a:

w_1 = 0.2 mm

w_2 = 0.3 mm

w_3 = 0.4 mm

3.2.5 Grenzzustand der Rissöffnung ULS

In Bezug auf die Aggression der Umwelt und der Empfindlichkeit des Stahls ist die begrenzende Rissöffnung in der folgenden Tabelle dargestellt:

Gruppi di esigenze	Condizioni ambientali	Combinazione di azioni	Armatura			
			Sensibile		Poco sensibile	
			Stato limite	w_d	Stato limite	w_d
a	Ordinarie	frequente	ap. fessure	$\leq w_2$	ap. fessure	$\leq w_3$
		quasi permanente	ap. fessure	$\leq w_1$	ap. fessure	$\leq w_2$
b	Aggressive	frequente	ap. fessure	$\leq w_1$	ap. fessure	$\leq w_2$
		quasi permanente	decompressione	-	ap. fessure	$\leq w_1$
c	Molto aggressive	frequente	formazione fessure	-	ap. fessure	$\leq w_1$
		quasi permanente	decompressione	-	ap. fessure	$\leq w_1$

Die Grenzwerte sind gleich:

w_1 = 0.2 mm

w_2 = 0.3 mm

w_3 = 0.4 mm

4 PARAMETRI GEOTECNICI

I parametri geotecnici sono stati ricavati dal presente documento:

" Relazione geologica preliminare "

Redatta dalla Società: Geologia e Ambiente

Data: ottobre 2013

Nella relazione si precisa che le informazioni sono state ricavate da indagini e studi pregressi, realizzati in siti limitrofi nel recente passato.

Livello A da p.c. fino a 4-5 m			*SABBIE LIMOSE E LIMI SABBIOSI*
Angolo di attrito	φ =	28.0	°
Coesione	c =	0.0	MPa
Peso di volume	γ =	18.5	kN/m3
Peso di volume saturo	γ_{SAT} =	20.0	kN/m3

Livello B da da 4-5 m a 20 m da p.c.			*GHIAIE E SABBIE*
Angolo di attrito	φ =	34.0	°
Coesione	c =	0.0	MPa
Peso di volume	γ =	19.0	kN/m3
Peso di volume saturo	γ_{SAT} =	20.0	kN/m3

Falda idrica individuata a – 13.0 ÷ - 15.0 m da p.c..

Per il terreno di riporto si è assunto:

Terreno di riporto dei rilevati			*RIPORTO*
Angolo di attrito	φ =	35.0	°
Coesione	c =	0.0	MPa
Peso di volume	γ =	20.0	kN/m3
Peso di volume saturo	γ_{SAT} =	20.0	kN/m3

4 GEOTECHNISCHE PARAMETER

Die geotechnischen Parameter wurden aus diesem Dokument abgeleitet:

" Geotechnischer Bericht Vorprojekt "

Herausgegeben vor: Geologia e Ambiente

Datum: Oktober 2013

Die Informationen, welche in diesem Bericht wiedergegeben werden, wurden aus Untersuchungen und früheren Untersuchungen von angrenzenden Grundstücken entnommen.

Niveau A vom bestehendes Gelände bis 4-5 m SCHLUFFIGER SAND UND SANDIGER SCHLUFF

Reibungswinkel	φ =	28.0	°
Kohäsion	c =	0.0	MPa
Feuchtwichte	γ =	18.5	kN/m3
Sättigungswichte	γ_{SAT} =	20.0	kN/m3

Niveau B vom 4-5 m bis 20 m vom bestehendes Gelände. SAND UND KIES

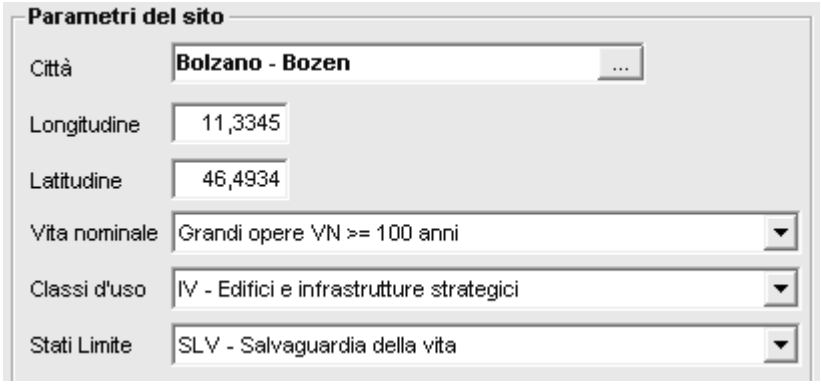
Reibungswinkel	φ =	34.0	°
Kohäsion	c =	0.0	MPa
Feuchtwichte	γ =	19.0	kN/m3
Sättigungswichte	γ_{SAT} =	20.0	kN/m3

Grundwasserspiegel – 13.0 ÷ - 15.0 m vom bestehendes Gelände

Terreno di riporto dei rilevati FÜLLMATERIAL

Reibungswinkel	φ =	35.0	°
Kohäsion	c =	0.0	MPa
Feuchtwichte	γ =	20.0	kN/m3
Sättigungswichte	γ_{SAT} =	20.0	kN/m3

5 PARAMETRI SISMICI

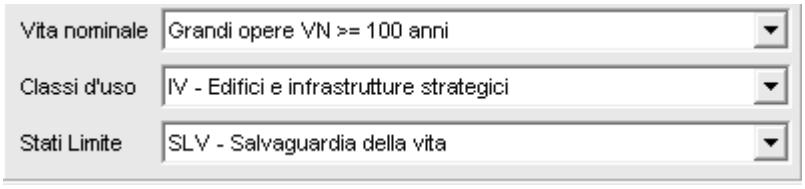


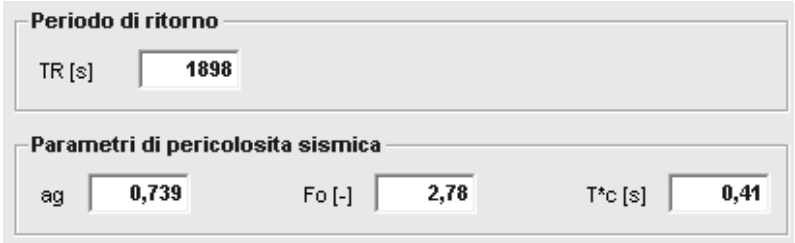
Accelerazione base al suolo per opere ordinarie allo SLV:

Da cui si ricava, che sulla base della classificazione sismica in zone, come introdotta in Ordinanza 3274 come modificato da OPCM 3431 del 03/05/2005, la zone di costruzione ricade in zona 4:

ag / g = 0.518 / 9.81 = 0.053 con valore di ag per zona 4 pari a: 0.05g

Date le caratteristiche di importanza strategica delle strutture allo studio si adottano poi i seguenti parametri:

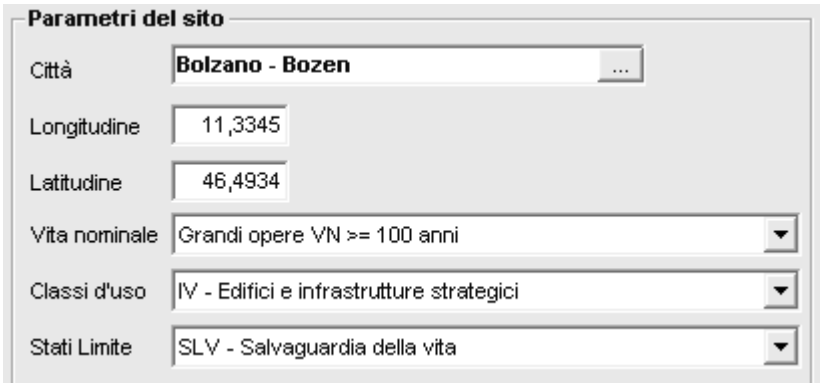




Coefficiente di amplificazione topografica: T1

Categoria del sottosuolo: C

5 SEISMISCHE PARAMETER

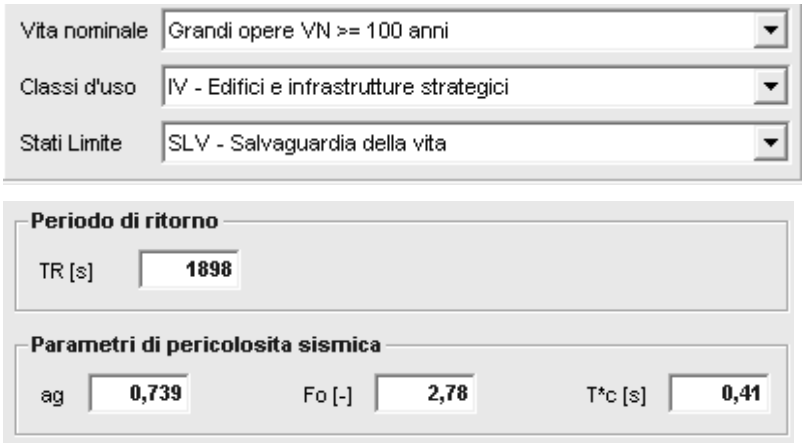


Grundbeschleinigung SLV:

Für Gebäude in der “Zone 4” laut „Ordinanza 3274 geändert durch OPCM 3431 vom 03/05/2005” ag=0,05g:

ag / g = 0.518 / 9.81 = 0.053

zusätzliche Parameter

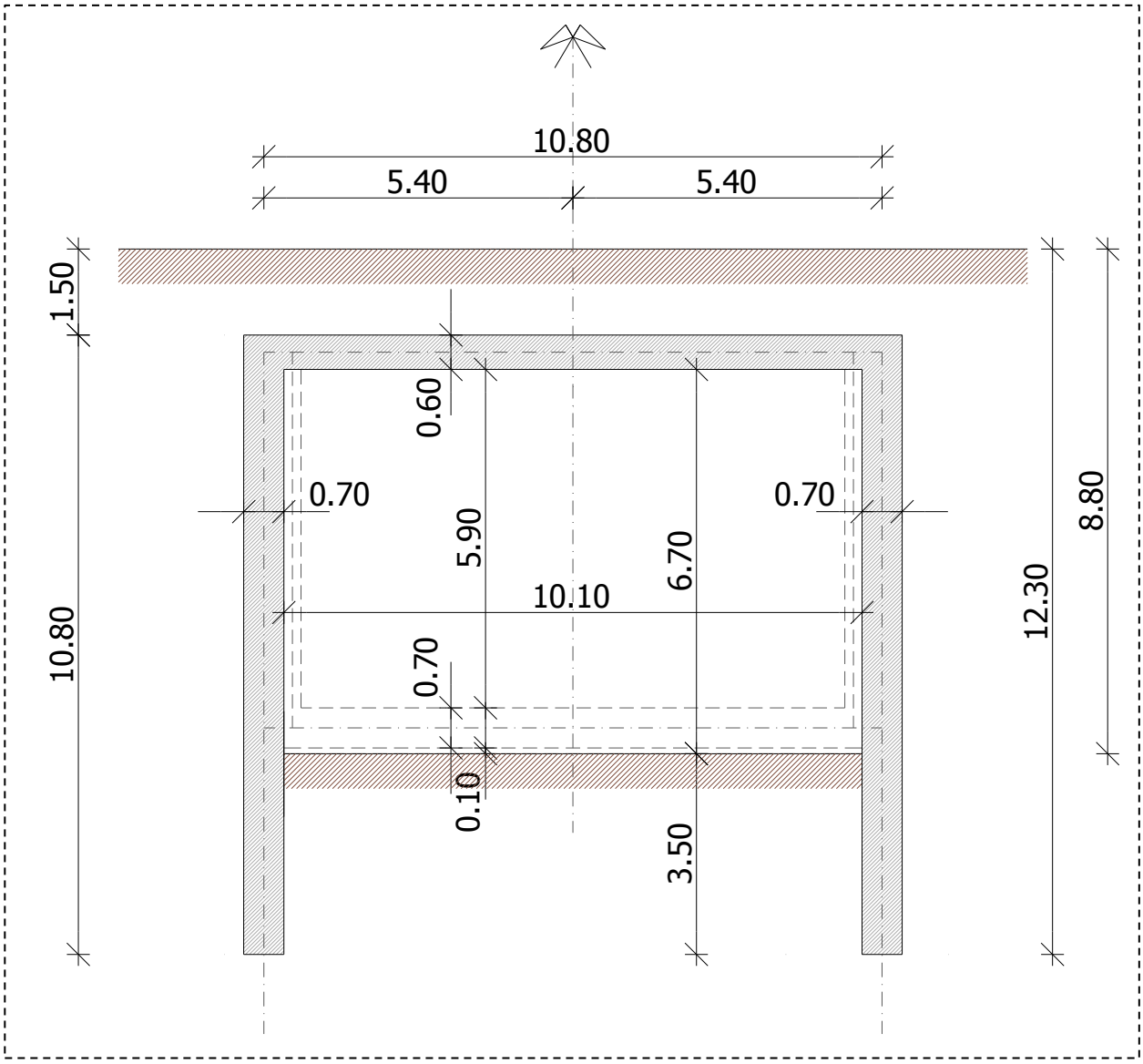


Kategorie Topographie: T1

Kategorie des Grundungsuntergrunds: C

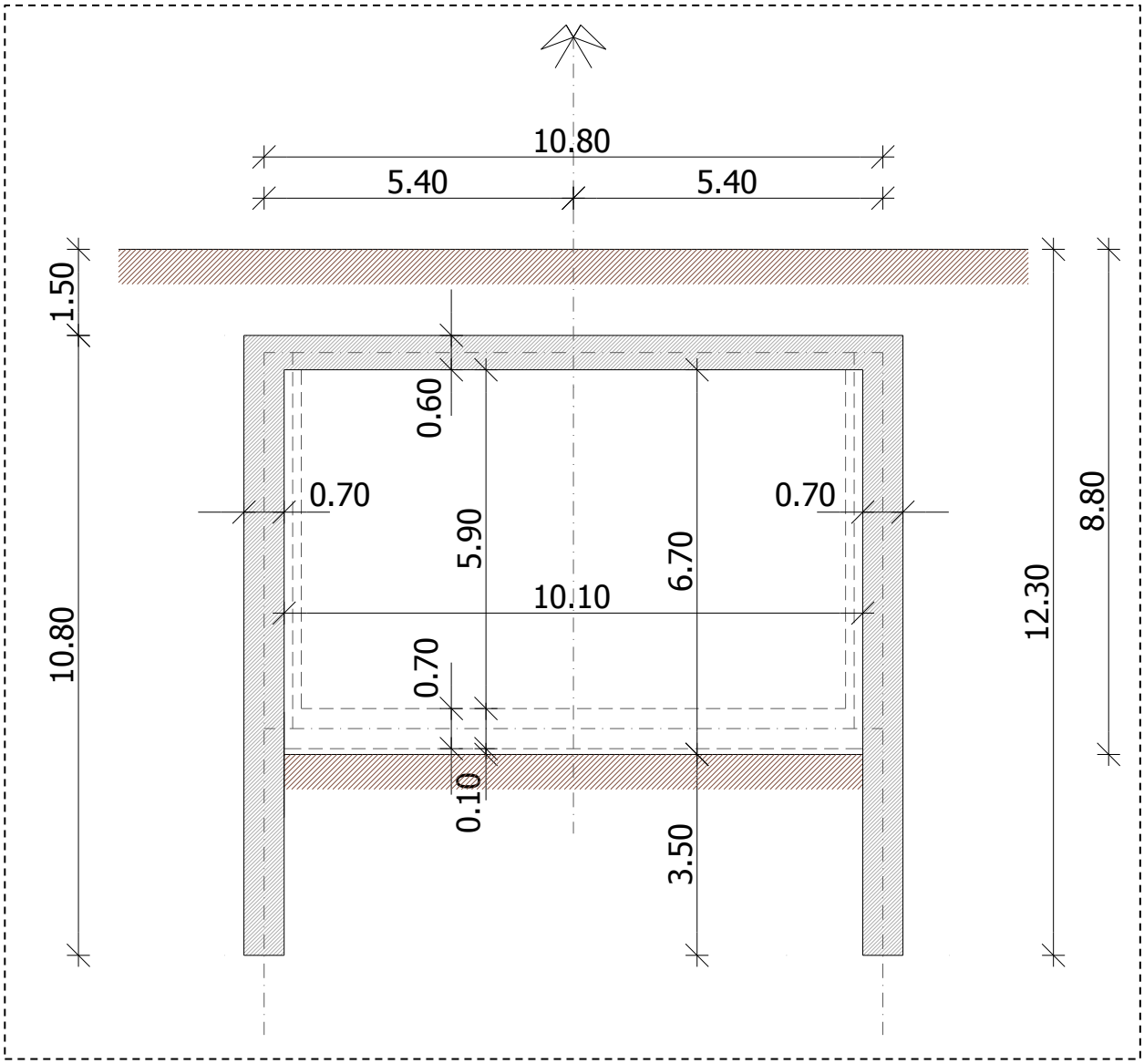
6 GALLERIA ARTIFICIALE CON REALIZZAZIONE "TOP DOWN"

6.1 Schema di calcolo ed analisi dei carichi



6 REALISIERUNG EINES TUNNEL IM "TOP DOWN" VERFAHREN

6.1 Berechnungsschema und Einwirkungen



6.1.1 Pesi propri strutturali G1

Carichi determinati con riferimento ad una fascia di 1 m di struttura.

SOLETTA

Sp. 60 cm

25 * 0.6 * 1.0 * 10.8 = 162.0 kN

DIAFRAMMI

Sp. 70 cm

25 * 0.7 * 1.0 * 10.5 * 2 = 189 * 2 = 367.5 kN

G1_PP = 529.5 kN

6.1.2 Permanenti portati G2

Carichi determinati con riferimento ad una fascia di 1 m di struttura.

Terreno di ricoprimento:

h = 1.50 m

γ = 20.0 kN / m3

G2_PER POR = 20 * 1.5 * 10.8 = 324.0 kN

6.1.1 Eigengewicht G1

Plattendecke

Dicke 60 cm

25 * 0.6 * 1.0 * 10.8 = 162.0 kN

Wände

Dicke 70 cm

25 * 0.7 * 1.0 * 10.5 * 2 = 189 * 2 = 367.5 kN

G1_PP = 529.5 kN

6.1.2 Permanenti portati G2

Füllungen:

h = 1.50 m

γ = 20.0 kN / m3

G2_PER POR = 20 * 1.5 * 10.8 = 324.0 kN

6.1.3 Spinta delle terre (g3)

In funzione dei parametri caratteristici dei terreni, desunti dalla relazione geotecnica, si sono ricavati le azioni dovute alla spinta delle terre da utilizzarsi nelle verifiche delle strutture a contatto con il terreno.

BOLZANO CENTRO COMMERCIALE					
GALLERIA ARTIFICIALE					
SPINTA ORIZZONTALE TERRENO SU PIEDRITTI					
ϕ	=	35	°	0,61087	rad
Coefficiente di spinta a riposo					
k_0 =	1 - sen fi		=	0,42642	
γ	=	20	kN/m3		
Quota					
da livello ricoprimento terreno a scendere					
z		p_{OR}		Valore medio su elemento frame	
[m]		[kN/m2]		[kN/m2]	
0		0,00			
1,8		15,35			16,204
2		17,06		21,321	
3		25,59			29,850
4		34,11		38,378	
5		42,64			46,907
6		51,17		55,435	
7		59,70			63,964
8		68,23		69,720	
8,35		71,21			73,132
8,8		75,05		77,183	
9,3		79,31			83,579
10,3		87,84		92,107	
11,3		96,37			100,636
12,3		104,90			

6.1.3 Erddruck (g3)

Für die Berechnung des Erddruckes wurden die charakteristischen Bodenmerkmale aus dem geotechnischen Bericht angewandt.

BOLZANO CENTRO COMMERCIALE					
GALLERIA ARTIFICIALE					
SPINTA ORIZZONTALE TERRENO SU PIEDRITTI					
ϕ	=	35	°	0,61087	rad
Coefficiente di spinta a riposo					
k_0 =	1 - sen fi		=	0,42642	
γ	=	20	kN/m3		
Quota					
da livello ricoprimento terreno a scendere					
z		p_{OR}		Valore medio su elemento frame	
[m]		[kN/m2]		[kN/m2]	
0		0,00			
1,8		15,35			16,204
2		17,06		21,321	
3		25,59			29,850
4		34,11		38,378	
5		42,64			46,907
6		51,17		55,435	
7		59,70			63,964
8		68,23		69,720	
8,35		71,21			73,132
8,8		75,05		77,183	
9,3		79,31			83,579
10,3		87,84		92,107	
11,3		96,37			100,636
12,3		104,90			

6.1.4 Carichi mobili dovuti al traffico (q1)

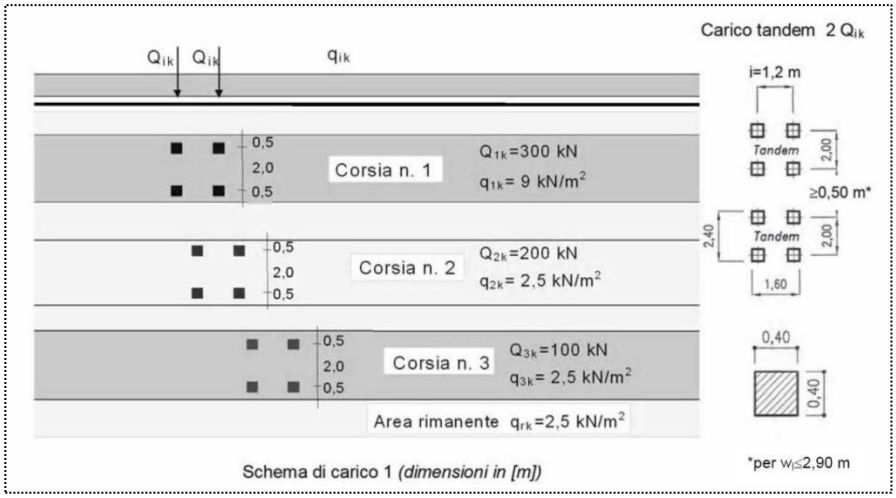
Si sono adottati i carichi mobili con riferimento ai ponti di I categoria.

Per le verifiche globali si fa riferimento allo schema di Schema di carico n.1 e n.5.

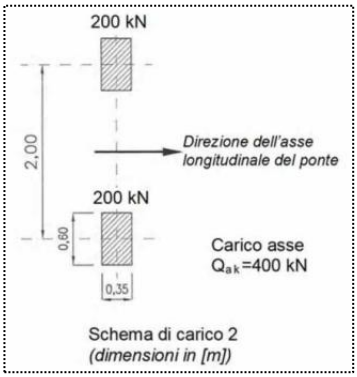
Per quanto riguarda lo Schema di cario n.1 si considerano le seguenti colonne di carico:

Posizione	Carico asse Q_{ik} [kN]	q_{ik} [kN/m^2]
Corsia Numero 1	300	9,00
Corsia Numero 2	200	2,50
Corsia Numero 3	100	2,50
Altre corsie	0,00	2,50

La distribuzione, l'interasse tra le forze concentrate e gli ingombri delle colonne di carico sono rappresentati nella figura che segue:



Per le verifiche locali, qualora più gravoso, si può fare riferimento allo schema di carico n. 2:



6.1.4 Verkehrlasten (q1)

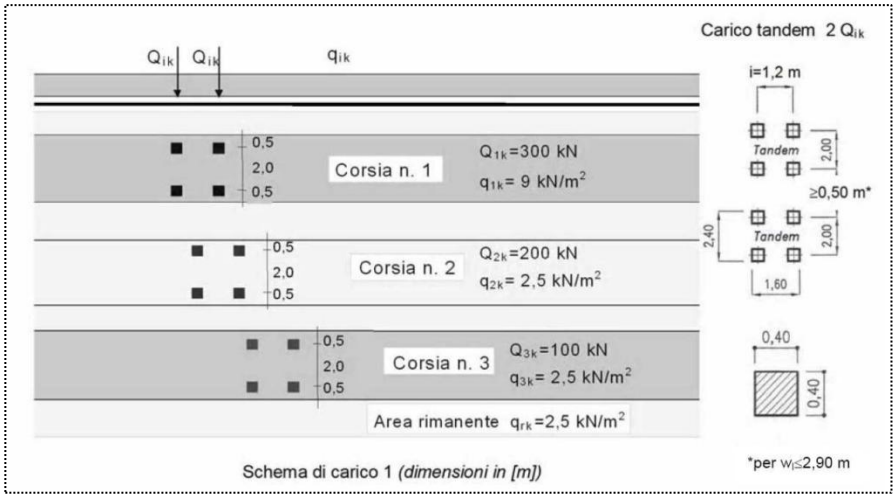
Es wurden die Verkehrslasten für Brücken der 1. Kategorie angewandt.

Für die globalen Überprüfungen bezieht man sich auf das Belastungsschema Nr. 1 und Nr. 5.

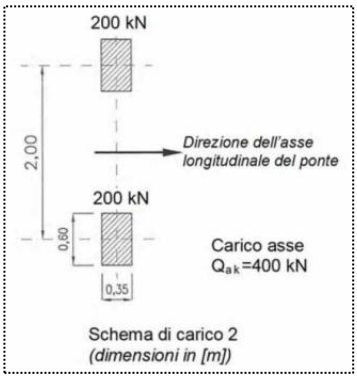
Laut Beslastungsschema Nr. 1 werden folgende Belastungen angewandt:

Posizione	Carico asse Q_{ik} [kN]	q_{ik} [kN/m^2]
Corsia Numero 1	300	9,00
Corsia Numero 2	200	2,50
Corsia Numero 3	100	2,50
Altre corsie	0,00	2,50

Die Lastverteilung, die Achsabstände zwischen den punktuellen Belastungen und die Breite der Fahrspuren werden in der folgenden Grafik dargestellt:



Für die lokalen Überprüfungen kann Bezug auf das Belastungsschema Nr. 2 genommen werden, welches ungünstiger ausfällt:



Nell'ambito delle verifiche di tipo globale, i carichi derivanti dallo Schema di carico n.1 sono i seguenti:

	CONCENTRATO	DISTRIBUITO		
CORSIA 1	Qik = 2*300 kN	qik = 9.0 kN/m2	9.0*3 =	27.00 kN/m
CORSIA 2	Qik = 2*200 kN	qik = 2.5 kN/m2	2.5*3 =	7.50 kN/m
CORSIA 3	Qik = 2*100 kN	qik = 2.5 kN/m2	2.5*3 =	7.50 kN/m

Nella ricerca delle sollecitazioni massime di flessione nella soletta si è considerato lo schema riportato di seguito:

DIFFUSIONE IMPRONTA DI CARICO
Schema di carico 1
Impronta 40*40 cm
Diffusione nello strato di ricoprimento
2:1 – angolo 26.56°
H ric = H max = 150 cm
d1 = 150 * tan (26.56) = 75 cm
Diffusione nella soletta:
45 °
H = 60 cm
d2 = 0.60/2 * tan (45) = 30 cm
b diff = 40 + 2*d1 + 2*d2 = 40+2*75+2*30 = 250 cm

Laut Beslastungsschema Nr. 1 werden folgende Belastungen angewandt:

	EINZELLAST	FLÄCHENLAST		
Fahrbahn 1	Qik = 2*300 kN	qik = 9.0 kN/m2	9.0*3 =	27.00 kN/m
Fahrbahn 2	Qik = 2*200 kN	qik = 2.5 kN/m2	2.5*3 =	7.50 kN/m
Fahrbahn 3	Qik = 2*100 kN	qik = 2.5 kN/m2	2.5*3 =	7.50 kN/m

Für die Ermittlung der Biegemomente der Decke, wurden folgende Parameter berücksichtigt:

AUSBREITUNG DER BELASTUNG:

Belastungsschema 1

Belastungsfläche 40*40 cm

Ausbreitung innerhalb des Bodenaufbaus:

2:1 – angolo 26.56°

H ric = H max = 150 cm

d1 = 150 * tan (26.56) = 75 cm

Ausbreitung in der Decke:

45 °

H = 60 cm

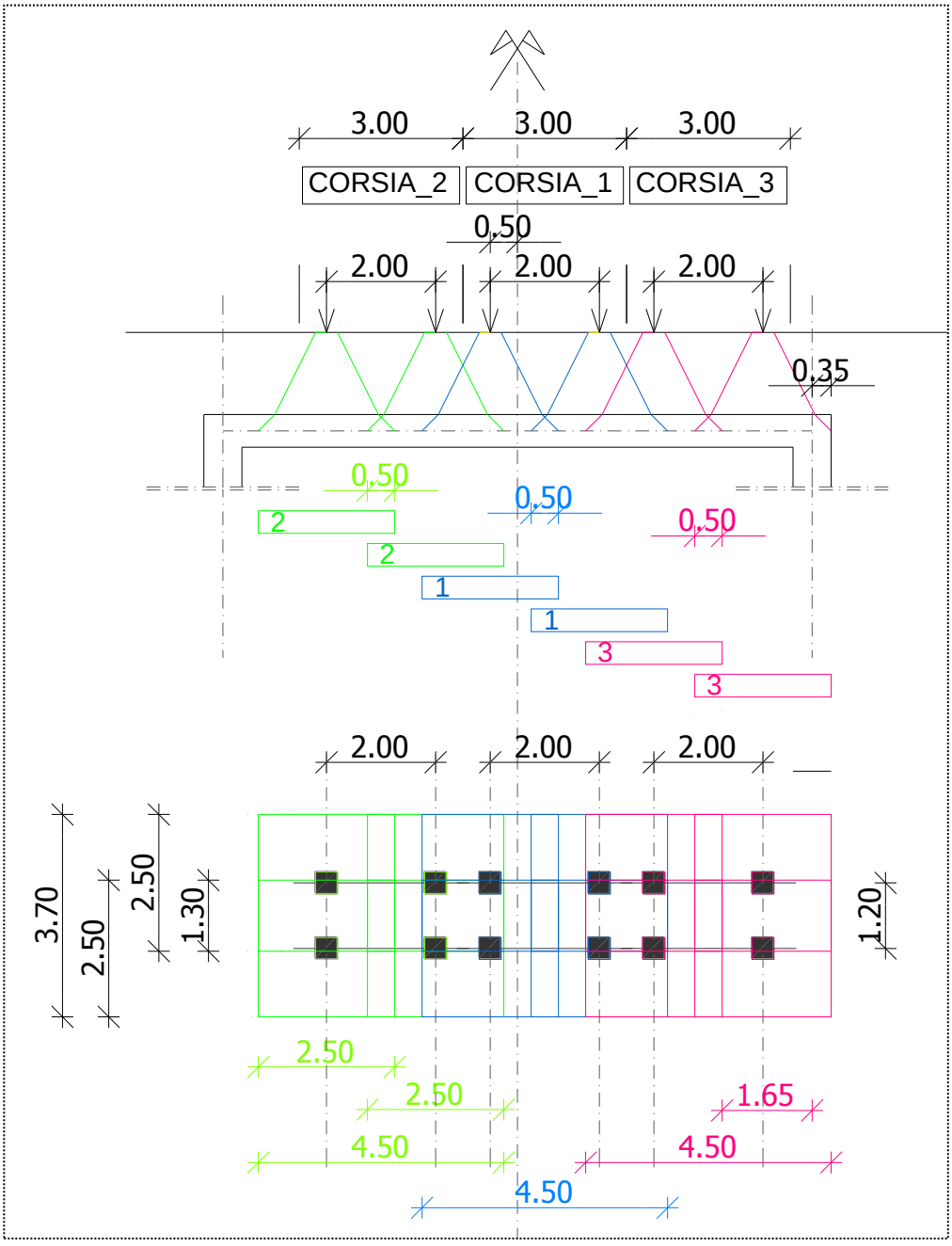
d2 = 0.60/2 * tan (45) = 30 cm

b diff = 40 + 2*d1 + 2*d2 = 40+2*75+2*30 = 250 cm

q conc 1 = 2*(150 / (2.5*2.5)) = 48 kN/m / 1.3 m

q conc 2 = 2*(100 / (2.5*2.5)) = 32 kN/m / 1.3 m

q conc 3 = 2*(50 / (2.5*2.5)) = 16 kN/m / 1.3 m



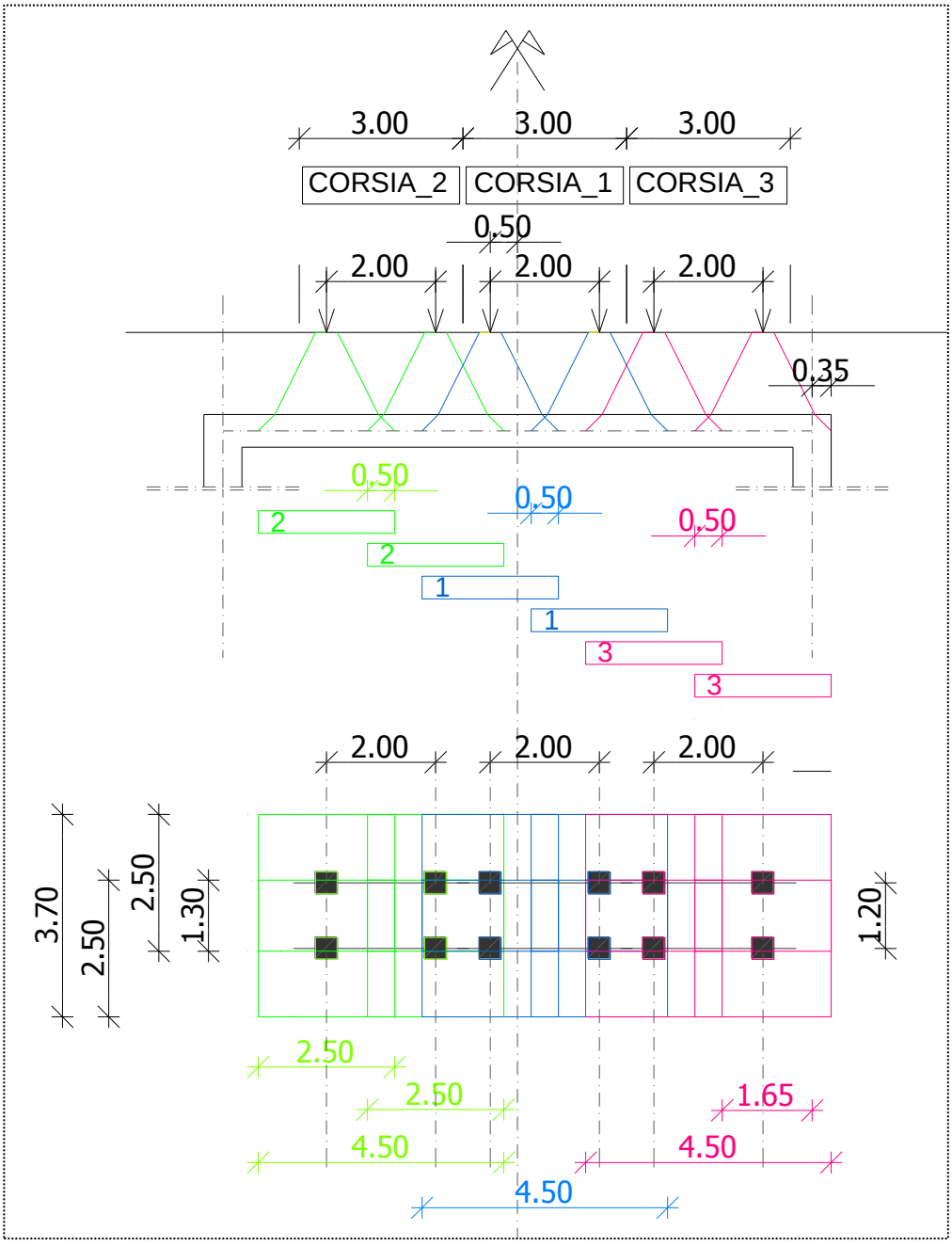
Il carico concentrato della corsia 3 interessa la struttura per la seguente aliquota, come evidenziato da disegno:

Q3 = 50*2 + 50*2 * ((2.5-0.35)/2.5) = 100 + 100*0.86 = 186 kN 93% Q3 = 200 kN

q conc 1 = 2*(150 / (2.5*2.5)) = 48 kN/m / 1.3 m

q conc 2 = 2*(100 / (2.5*2.5)) = 32 kN/m / 1.3 m

q conc 3 = 2*(50 / (2.5*2.5)) = 16 kN/m / 1.3 m

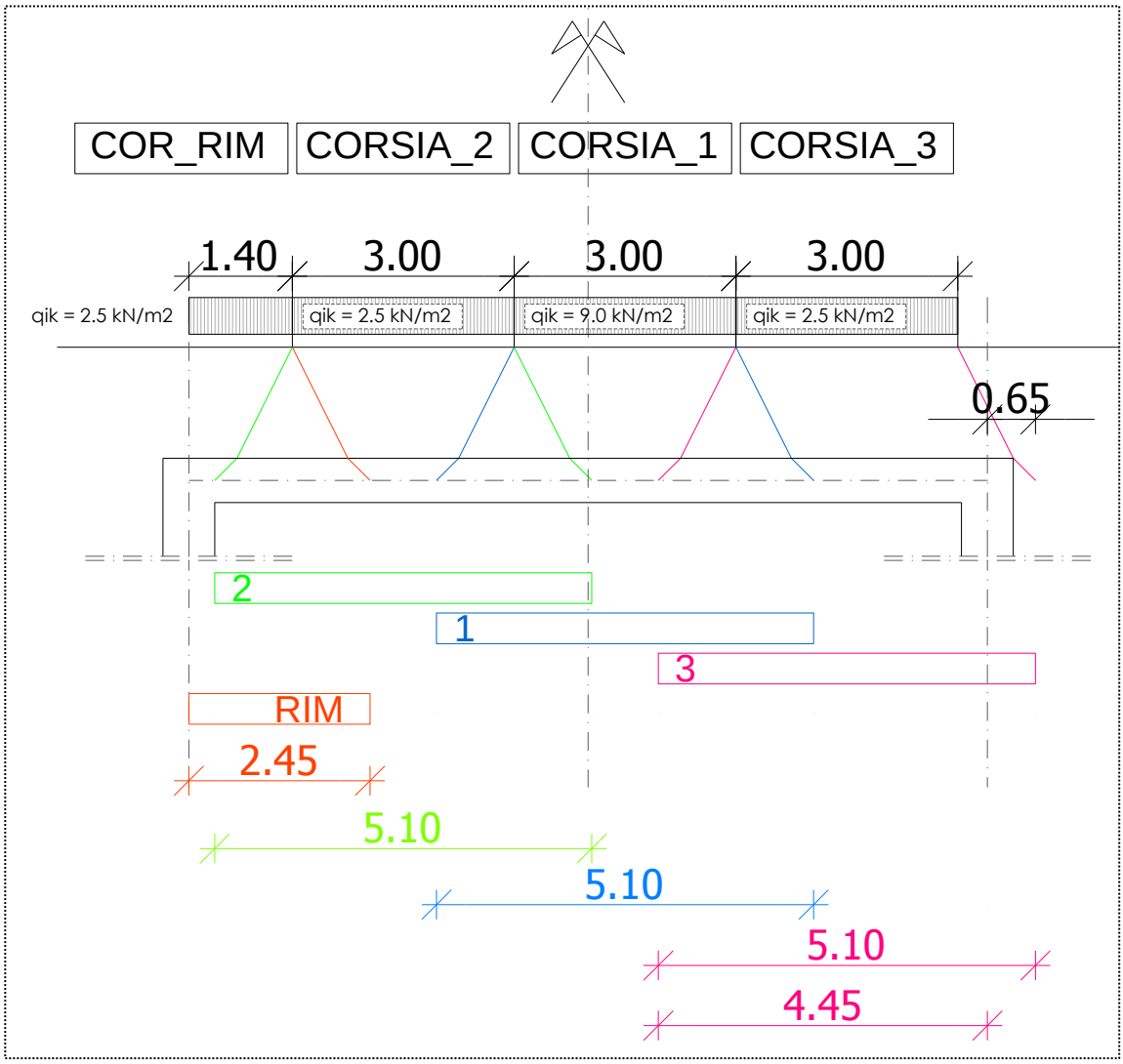


Die punktuelle Belastung der Fahrspur Nr.3 wirkt sich auf die Struktur mit folgenden Parametern aus:

Q3 = 50*2 + 50*2 * ((2.5-0.35)/2.5) = 100 + 100*0.86 = 186 kN 93% Q3 = 200 kN

L diff = 3.0 + 2*0.75 + 2*0.3 = 5.10 m

q dis 1 = 9*3 * 1/5.1 = 5.294 kN/m / 1.0 m
q dis 2 = 2.5*3 * 1/5.1 = 1.471 kN/m / 1.0 m
q dis 3 = 2.5*3 * 1/5.1 = 1.471 kN/m / 1.0 m

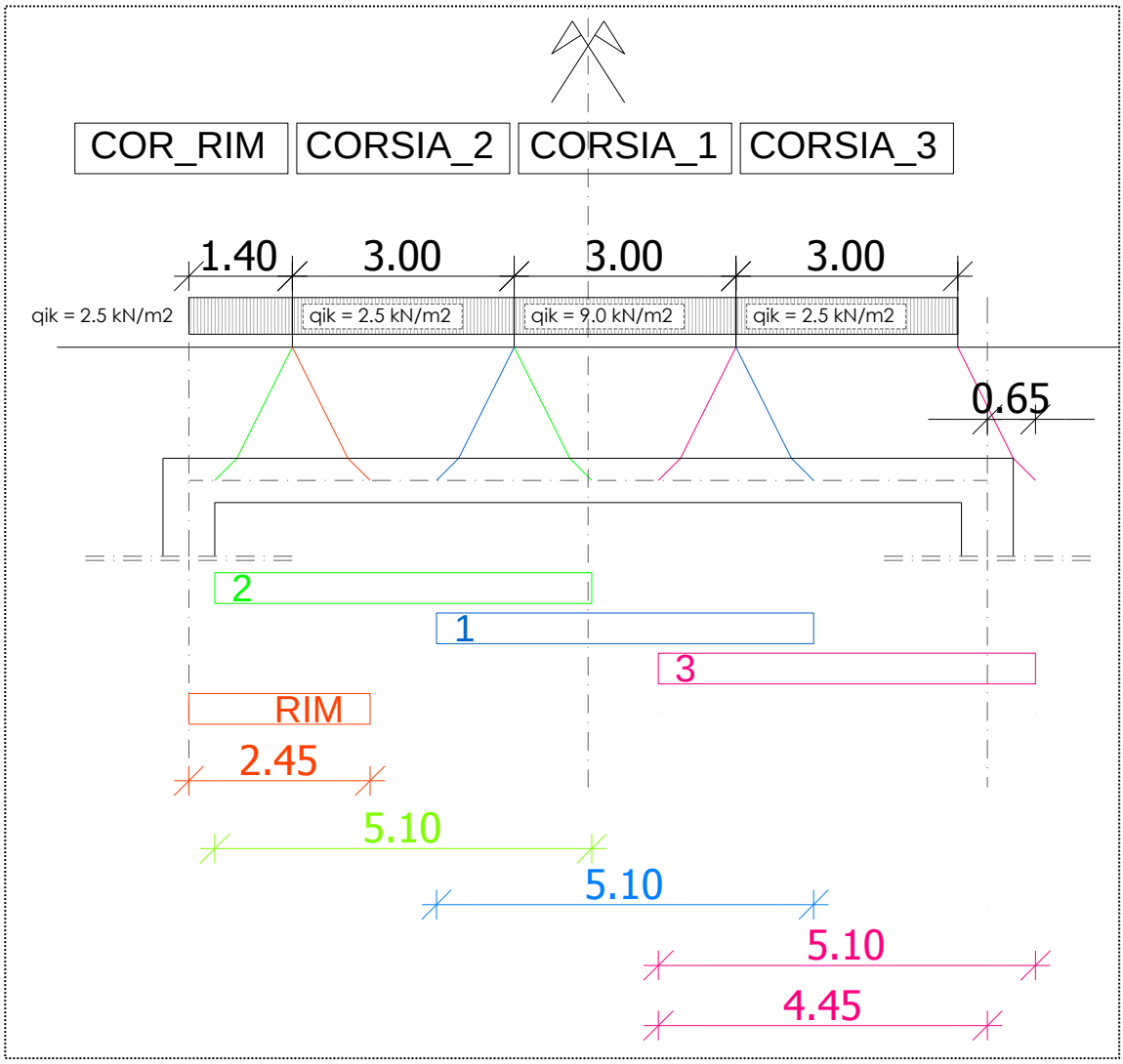


Il carico distribuito della corsia 3 interessa la struttura per la seguente aliquota, come evidenziato da disegno:

q3' = q dis 3 * (5.1-0.65) = 6.54 kN / m 87% q3 = 7.5 kN / m

L diff = 3.0 + 2*0.75 + 2*0.3 = 5.10 m

q dis 1 = 9*3 * 1/5.1 = 5.294 kN/m / 1.0 m
q dis 2 = 2.5*3 * 1/5.1 = 1.471 kN/m / 1.0 m
q dis 3 = 2.5*3 * 1/5.1 = 1.471 kN/m / 1.0 m



Die punktuelle Belastung der Fahrspur Nr.3 wirkt sich auf die Struktur mit folgenden Parametern aus:

q3' = q dis 3 * (5.1-0.65) = 6.54 kN / m 87% q3 = 7.5 kN / m

Determinazione dei carichi applicati alla struttura:

concio di larghezza 1.0 m

CONCENTRATI		
CORSIA 1	48*(4.5-0.5)+2*48*0.5 =	240.0 kN
CORSIA 2	32*(4.5-0.5)+2*32*0.5 =	160.0 kN
CORSIA 3	16*(4.5-0.5)+2*16*0.5 =	74.4 kN
		474.4 kN
DISTRIBUITI		
CORSIA 1	(9*3 / 5.10) * 5.10 =	27.0 kN
CORSIA 2	(2.5*3 / 5.10) * 5.10 =	7.5 kN
CORSIA 3	(2.5*3 / 5.10)*(5.10-0.65) =	6.5 Kn
CORSIA RIM	(2.5*1.4 / 2.45)*2.45 =	3.5 Kn
		44.5 kN
		518.9 kN

Ermittlung der einwirkenden Lasten:

breite von 1.0 m

EINZELLAST

Fahrbahn 1	48*(4.5-0.5)+2*48*0.5 =	240.0 kN
Fahrbahn 2	32*(4.5-0.5)+2*32*0.5 =	160.0 kN
Fahrbahn 3	16*(4.5-0.5)+2*16*0.5 =	74.4 kN
		474.4 kN

FLÄCHENLAST

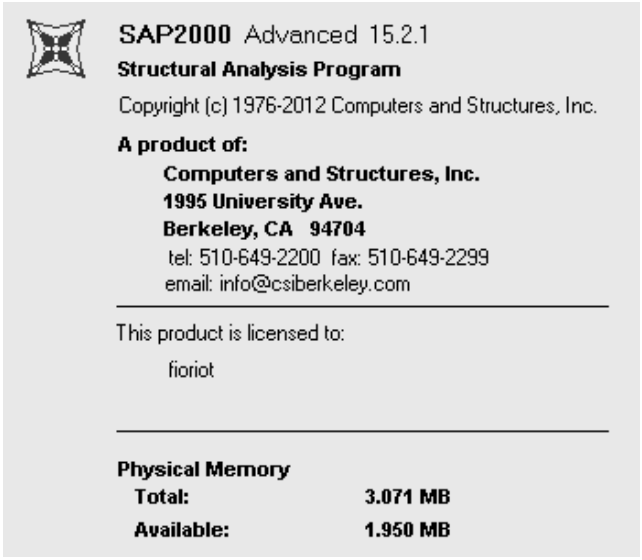
Fahrbahn 1	(9*3 / 5.10) * 5.10 =	27.0 kN
Fahrbahn 2	(2.5*3 / 5.10) * 5.10 =	7.5 kN
Fahrbahn 3	(2.5*3 / 5.10)*(5.10-0.65) =	6.5 Kn
Fahrbahn RIM	(2.5*1.4 / 2.45)*2.45 =	3.5 Kn
		44.5 kN

518.9 kN

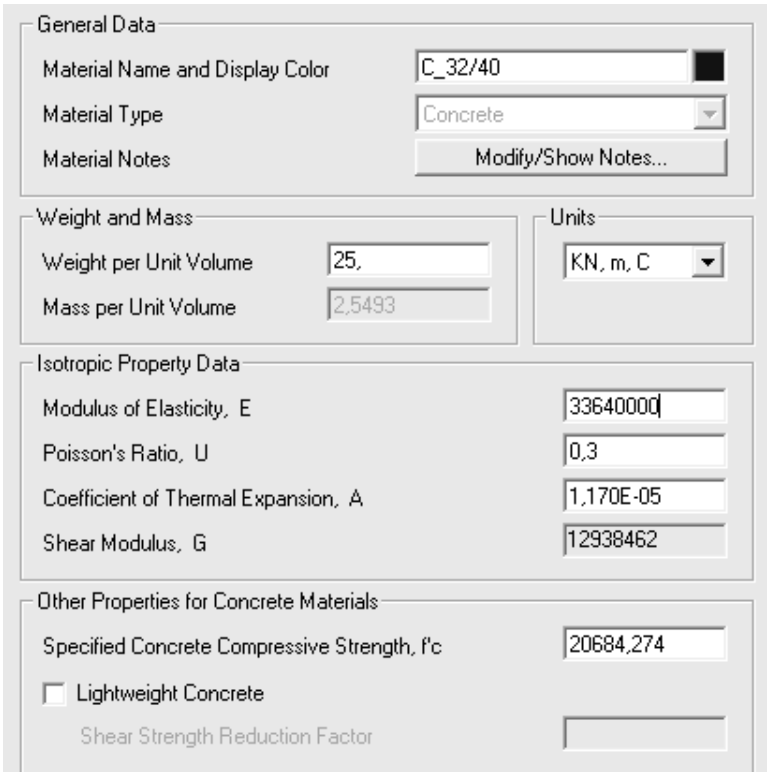
6.2 Modellazione della struttura

Codice di calcolo Sap 2000 v 15.2.1

Modellazione a shell



Materiali:



Definizione delle sezioni:

DIAFRAMMA sp. 70 cm

Shape Properties - Solid	
Name	SH1
Material	C_32/40
Color	
X Center	0,
Y Center	0,
Height	0,7
Width	1,
Rotation	0,
Reinforcing	No
Conc. Model	Mander-Unconfinec

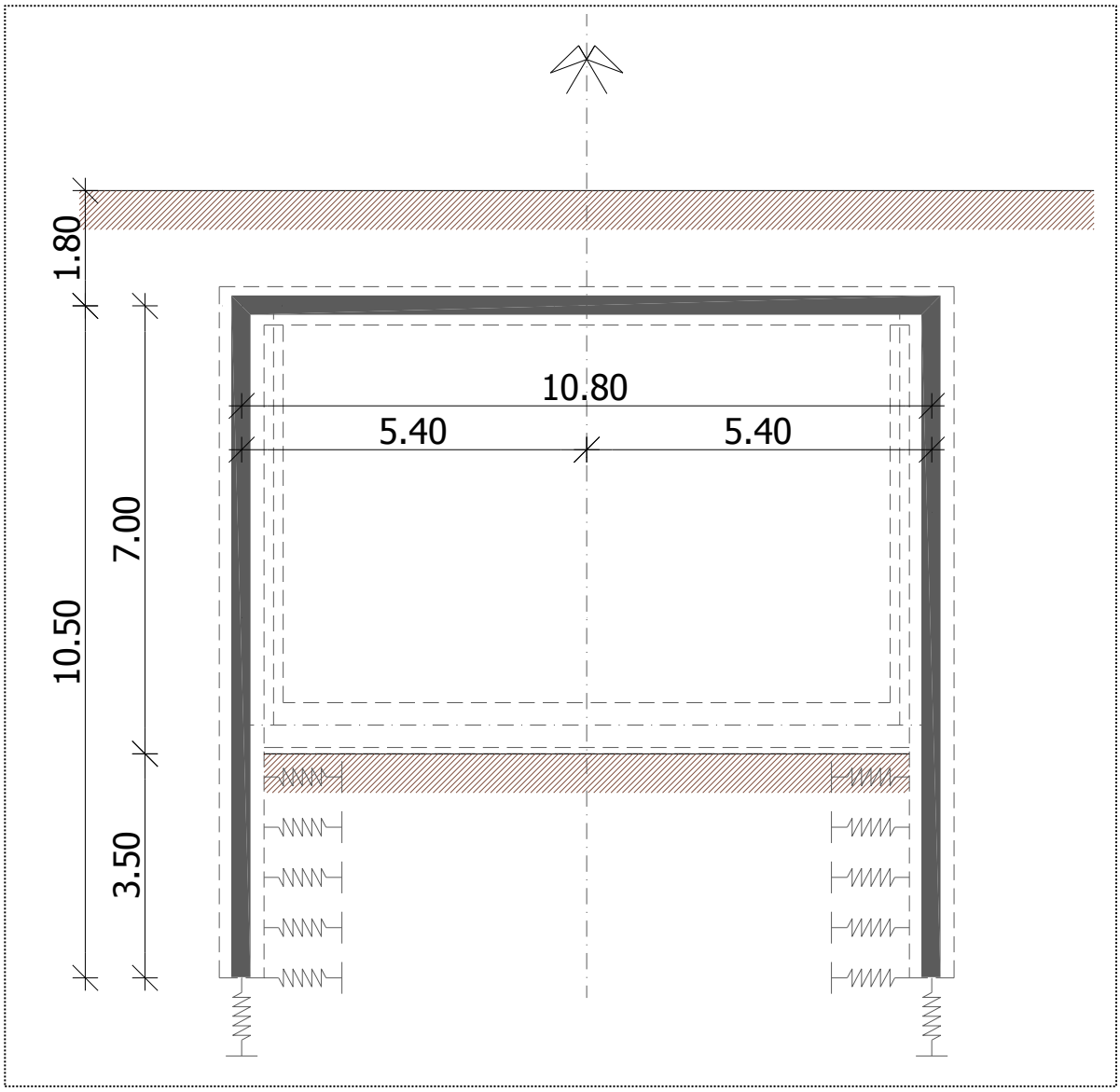
Section Name	DIAF		
Properties			
Cross-section (axial) area	0,7	Section modulus about 3 axis	0,0817
Moment of Inertia about 3 axis	0,0286	Section modulus about 2 axis	0,1167
Moment of Inertia about 2 axis	0,0583	Plastic modulus about 3 axis	0,1225
Product of Inertia about 2-3	0,	Plastic modulus about 2 axis	0,175
Shear area in 2 direction	0,5833	Radius of Gyration about 3 axis	0,2021
Shear area in 3 direction	0,5833	Radius of Gyration about 2 axis	0,2887
Torsional constant	0,0651	Shear Center Eccentricity (x3)	0,

SOLETTA sp. 60 cm

Shape Properties - Solid	
Name	SH1
Material	C_32/40
Color	
X Center	0,
Y Center	0,
Height	0,6
Width	1,
Rotation	0,
Reinforcing	No
Conc. Model	Mander-Unconfinec

Section Name	SOLETTA		
Properties			
Cross-section (axial) area	0,6	Section modulus about 3 axis	0,06
Moment of Inertia about 3 axis	0,018	Section modulus about 2 axis	0,1
Moment of Inertia about 2 axis	0,05	Plastic modulus about 3 axis	0,09
Product of Inertia about 2-3	0,	Plastic modulus about 2 axis	0,15
Shear area in 2 direction	0,5	Radius of Gyration about 3 axis	0,1732
Shear area in 3 direction	0,5	Radius of Gyration about 2 axis	0,2887
Torsional constant	0,0451	Shear Center Eccentricity (x3)	0,

Schema di calcolo assunto nella modellazione:



Resistenza del terreno schematizzata con molle alla Winkler:

Molle verticali base diaframmi:

k = 5.0 daN / cm3	50 000 kN/m3
kv = 50 000 * 1.0*0.7 =	35 000 kN/m

Coefficiente di spinta orizzontale:								
secondo " Elementi di tecnica delle fondazioni " Riccieri, pp 103								
kh =	nh *	x / D						
D =	diametro del palo		=	1,00	m			
x =	profondità di calcolo di kh							
n h =	sabbie asciutte/umide medie			0,67	daN / cm3			
x				kh				kh
[m]				[kN/m3]		b	h	[kN/m2]
						[m]	[m]	
0,500				3 350	*	1,00	1,00	3 350
1,500				10 050	*	1,00	1,00	10 050
2,500				16 750	*	1,00	1,00	16 750
3,500				23 450	*	1,00	0,50	11 725

CARICHI APPLICATI

G1 PP ELEMENTI STRUTTURALI

TABLE: Joint Reactions

Joint	OutputCase	CaseType	F1	F2	F3
Text	Text	Text	KN	KN	KN
86	G1_PP	LinStatic	-1,654	0	0
87	G1_PP	LinStatic	1,654	0	0
88	G1_PP	LinStatic	-3,701	0	0
89	G1_PP	LinStatic	3,701	0	0
90	G1_PP	LinStatic	-3,917	0	0
91	G1_PP	LinStatic	3,917	0	0
92	G1_PP	LinStatic	6,011E-12	0	0
93	G1_PP	LinStatic	-2,272	0	264,75
94	G1_PP	LinStatic	2,272	0	264,75
					529,5

G2 PERMANENTE COPERTURA

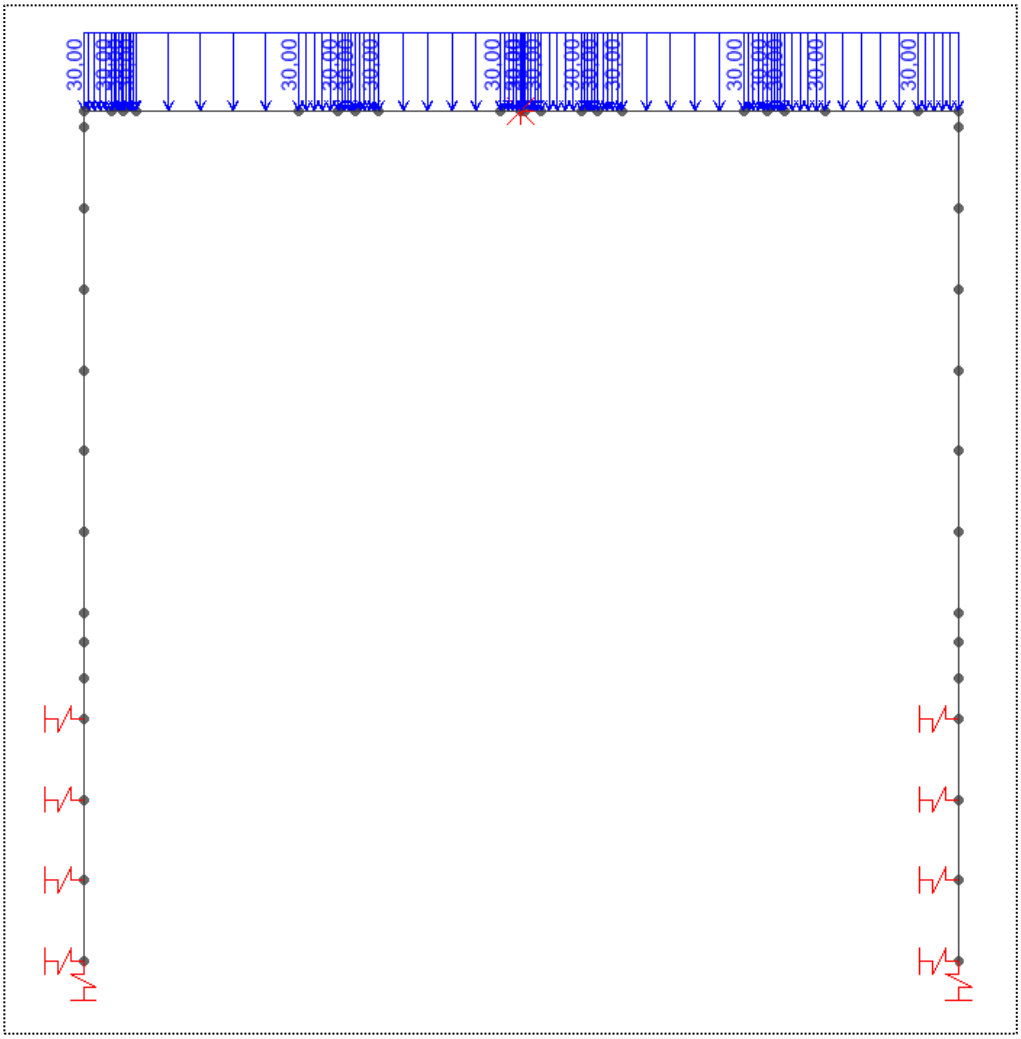
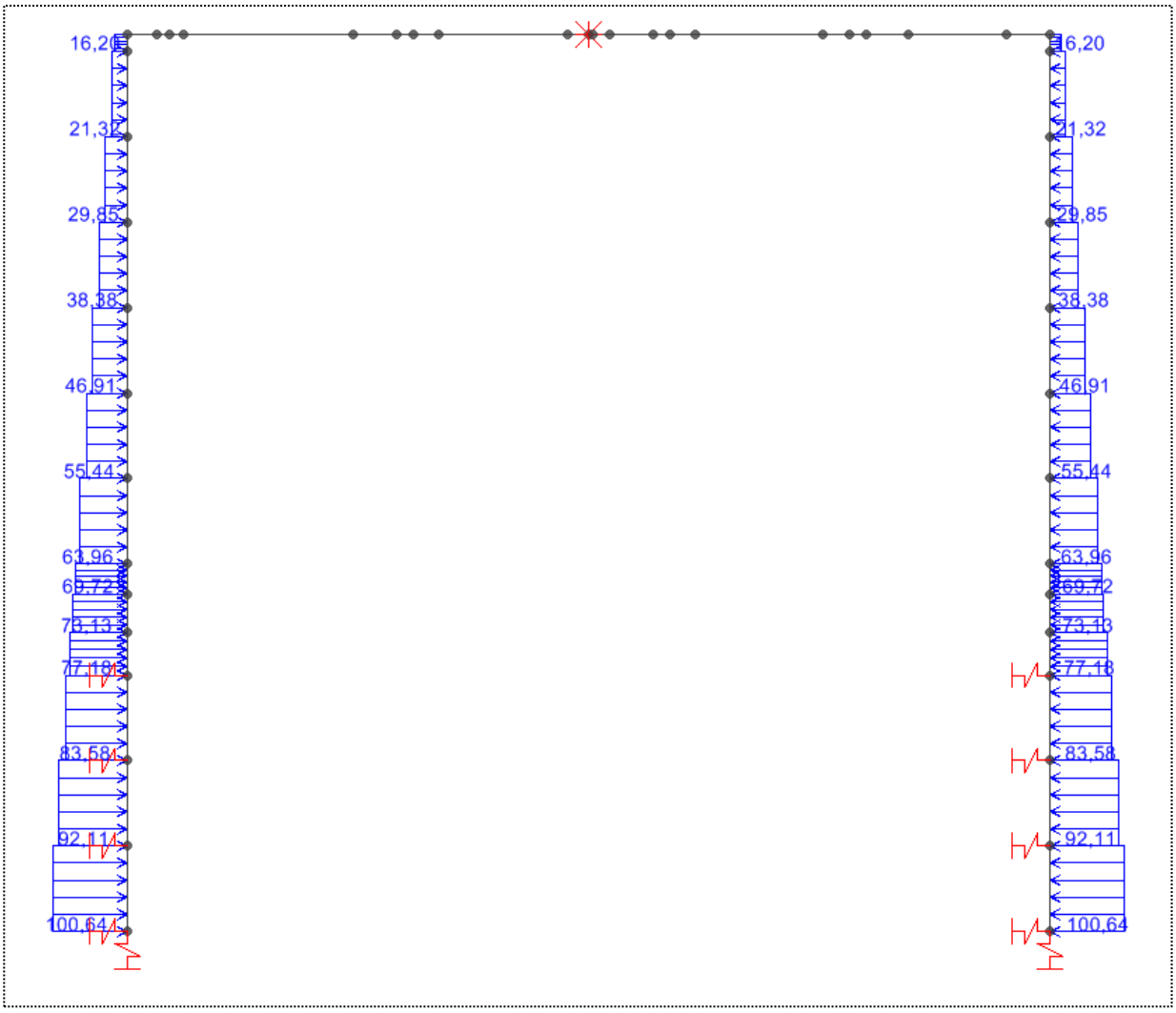


TABLE: Joint Reactions					
Joint	OutputCase	CaseType	F1	F2	F3
Text	Text	Text	KN	KN	KN
86	G2_PER POR	LinStatic	-3,308	0	0
87	G2_PER POR	LinStatic	3,308	0	0
88	G2_PER POR	LinStatic	-7,402	0	0
89	G2_PER POR	LinStatic	7,402	0	0
90	G2_PER POR	LinStatic	-7,834	0	0
91	G2_PER POR	LinStatic	7,834	0	0
92	G2_PER POR	LinStatic	3,894E-12	0	0
93	G2_PER POR	LinStatic	-4,544	0	162
94	G2_PER POR	LinStatic	4,544	0	162
					324

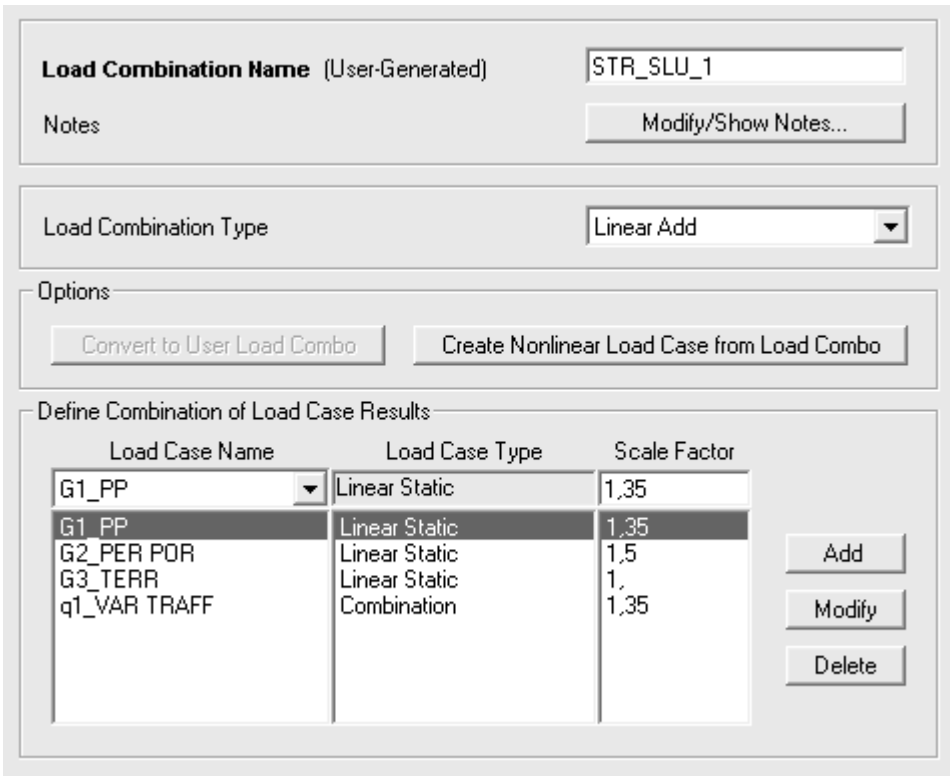
20*1.5*10.8 = 30*1.5*10.8 = 324 kN

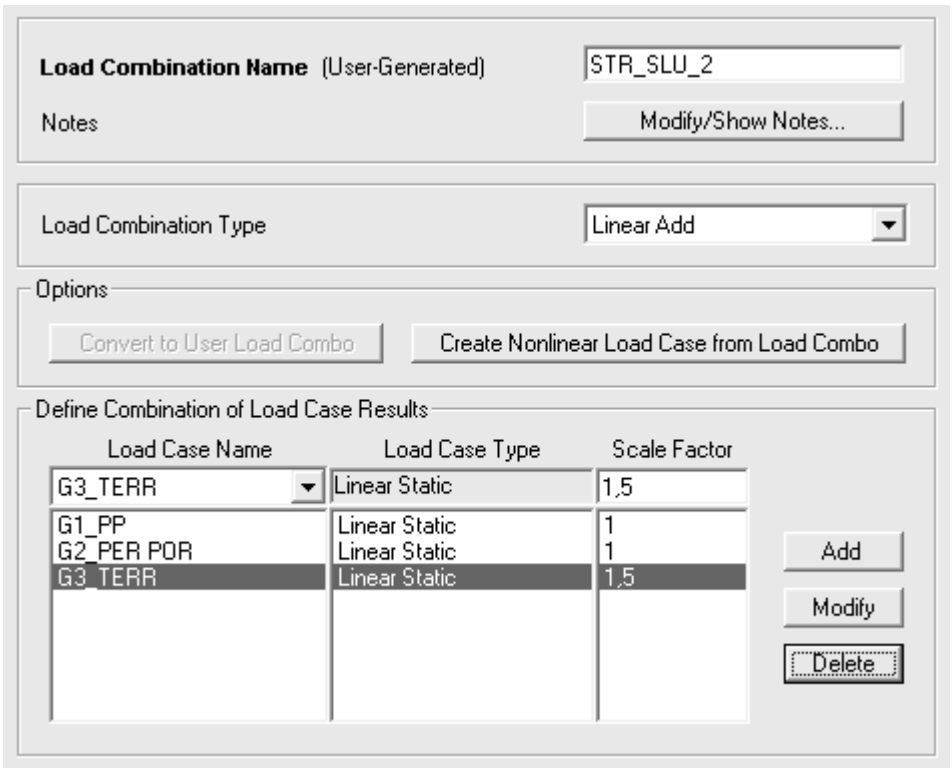
G3 SPINTA TERRE



Q1_var traffico

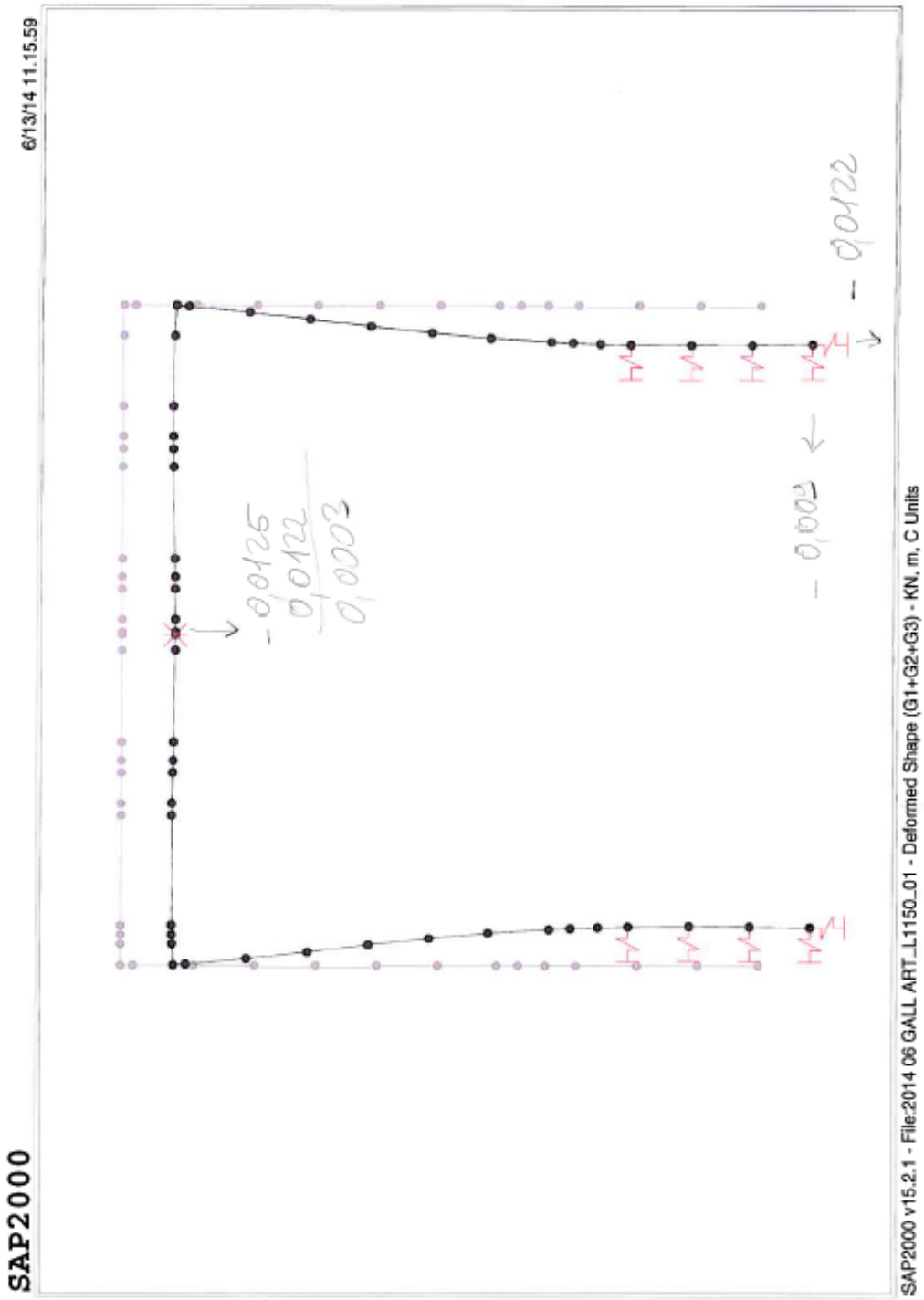
TABLE: Joint Reactions					
Joint	OutputCase	CaseType	F1	F2	F3
Text	Text	Text	KN	KN	KN
86	q1_VAR TRAFF	Combination	-6,435	0	0
87	q1_VAR TRAFF	Combination	6,453	0	0
88	q1_VAR TRAFF	Combination	-14,399	0	0
89	q1_VAR TRAFF	Combination	14,439	0	0
90	q1_VAR TRAFF	Combination	-15,238	0	0
91	q1_VAR TRAFF	Combination	15,281	0	0
92	q1_VAR TRAFF	Combination	-0,126	0	0
93	q1_VAR TRAFF	Combination	-8,838	0	256,561
94	q1_VAR TRAFF	Combination	8,863	0	262,387
					518,948


Load Combination Name (User-Generated)
STR_SLU_1
Notes
Modify/Show Notes...
Load Combination Type
Linear Add
Options
Convert to User Load Combo
Create Nonlinear Load Case from Load Combo
Define Combination of Load Case Results
Load Case Name
Load Case Type
Scale Factor
G1_PP
Linear Static
1,35
G1_PP
Linear Static
1,35
G2_PER POR
Linear Static
1,5
G3_TERR
Linear Static
1,
q1_VAR TRAFF
Combination
1,35
Add
Modify
Delete

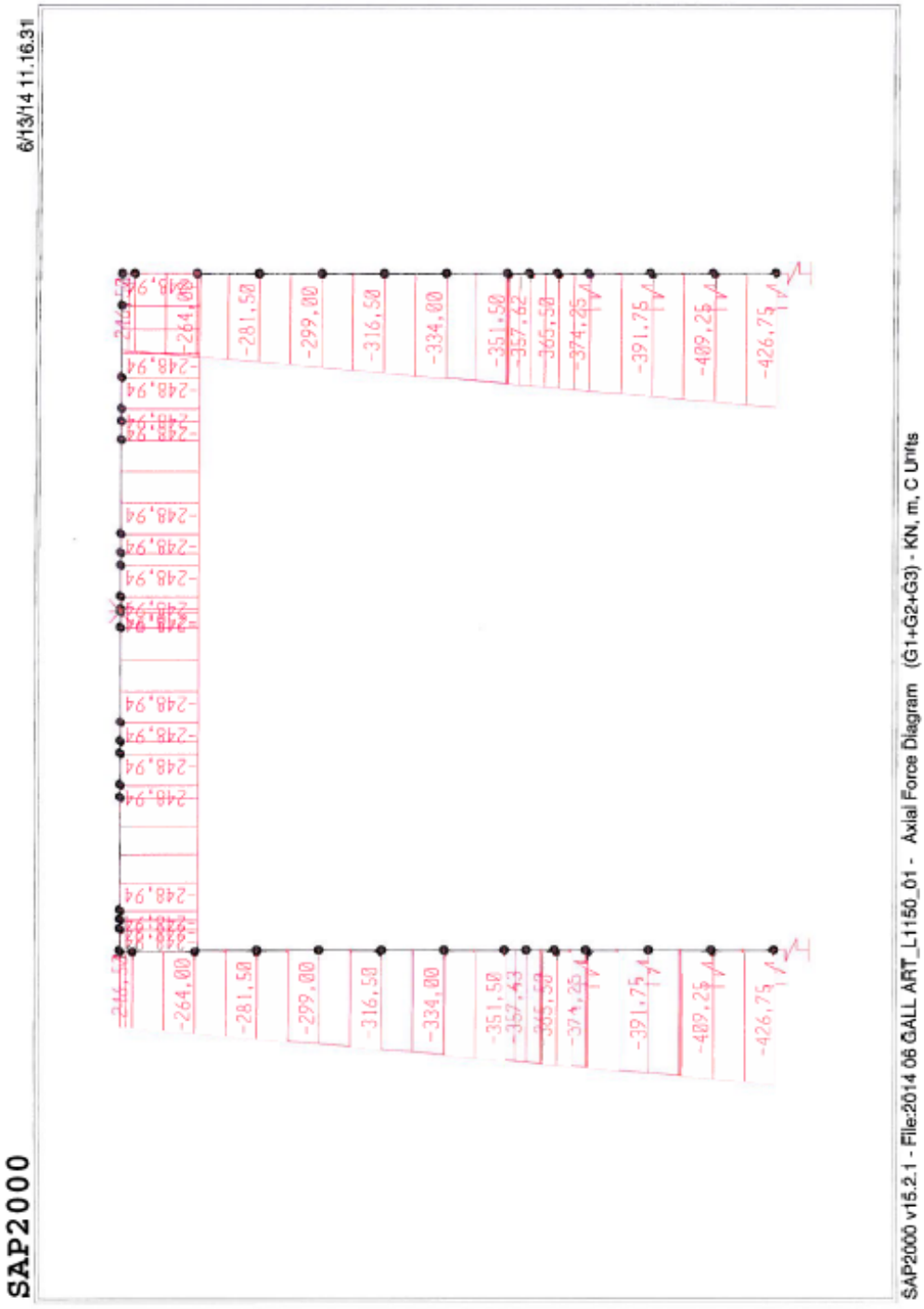

Load Combination Name (User-Generated)
STR_SLU_2
Notes
Modify/Show Notes...
Load Combination Type
Linear Add
Options
Convert to User Load Combo
Create Nonlinear Load Case from Load Combo
Define Combination of Load Case Results
Load Case Name
Load Case Type
Scale Factor
G3_TERR
Linear Static
1,5
G1_PP
Linear Static
1
G2_PER POR
Linear Static
1
G3_TERR
Linear Static
1,5
Add
Modify
Delete

6.3 Risultati dell'analisi e rappresentazione delle sollecitazioni

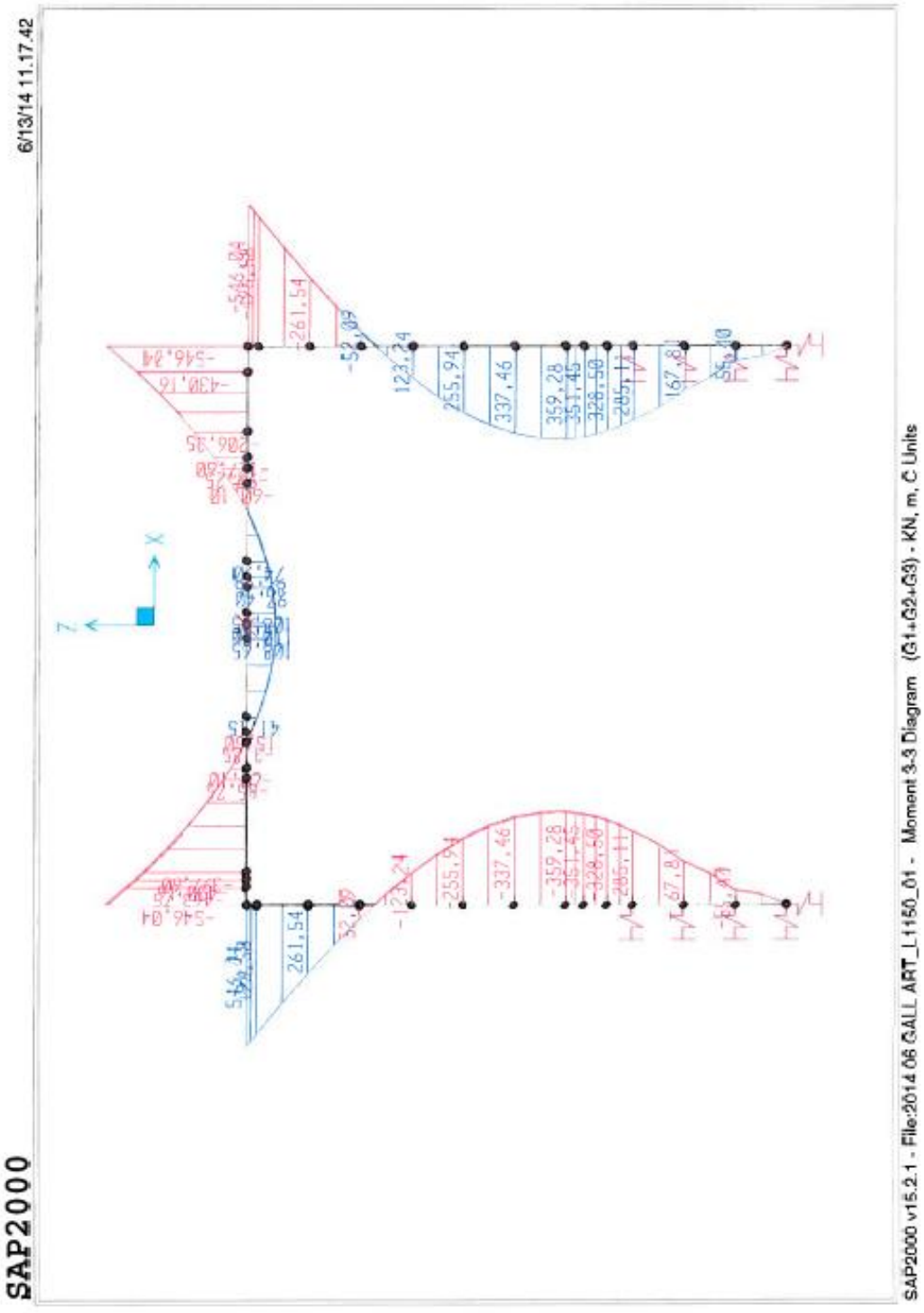
Condizione di carico / Load case	G1+G2+G3	
Deformata / Deformed shape	m	



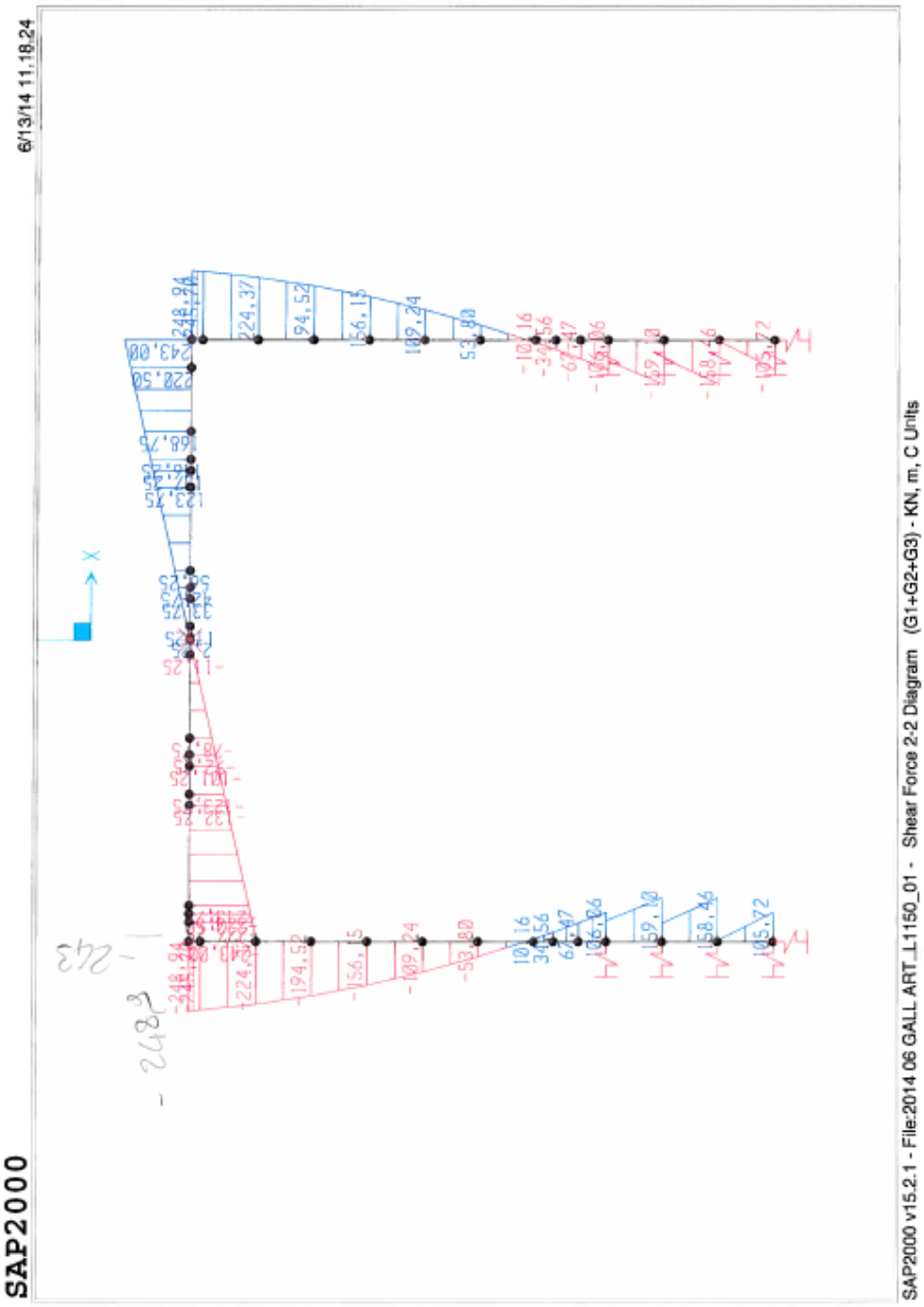
Condizione di carico / Load case	G1+G2+G3	
Sforzo normale / Axial force	kN /m	



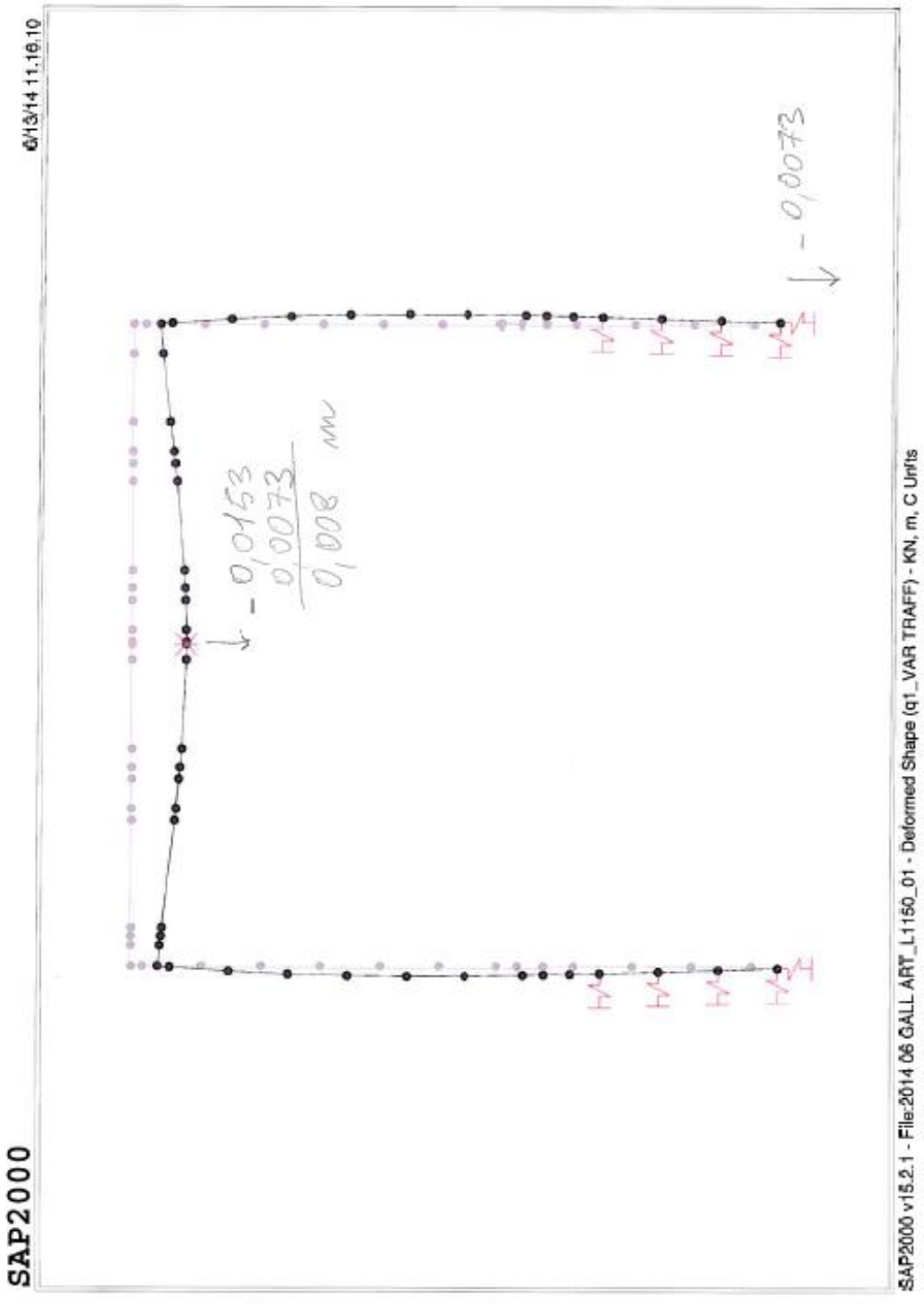
Condizione di carico / Load case	G1+G2+G3	
Momento flettente / Bending moment	kN* m /m	



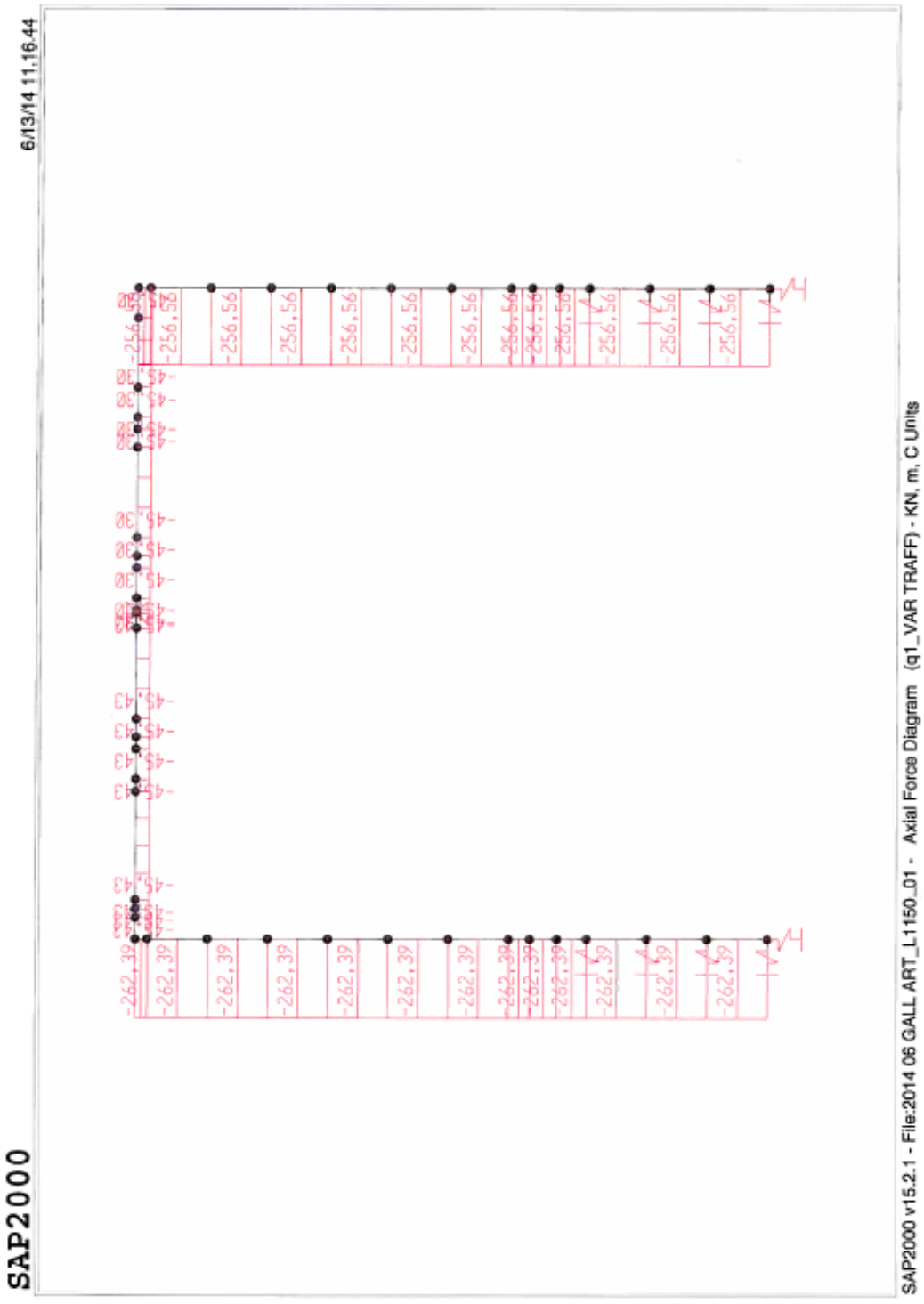
Condizione di carico / Load case	G1+G2+G3	
Taglio / Shear force	kN /m	



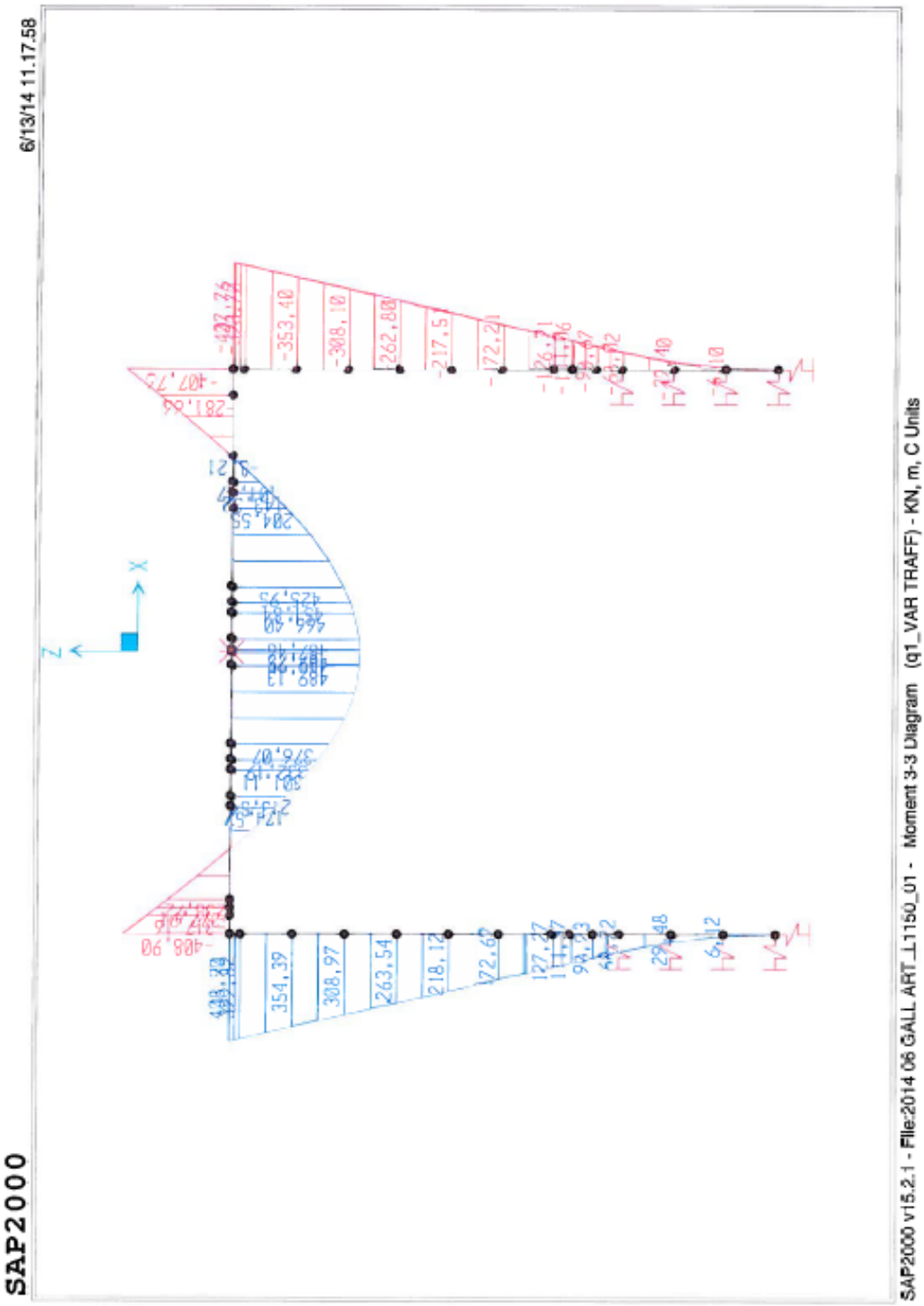
Condizione di carico / Load case	q1_VAR TRAFF	
Deformata / Deformed shape	m	



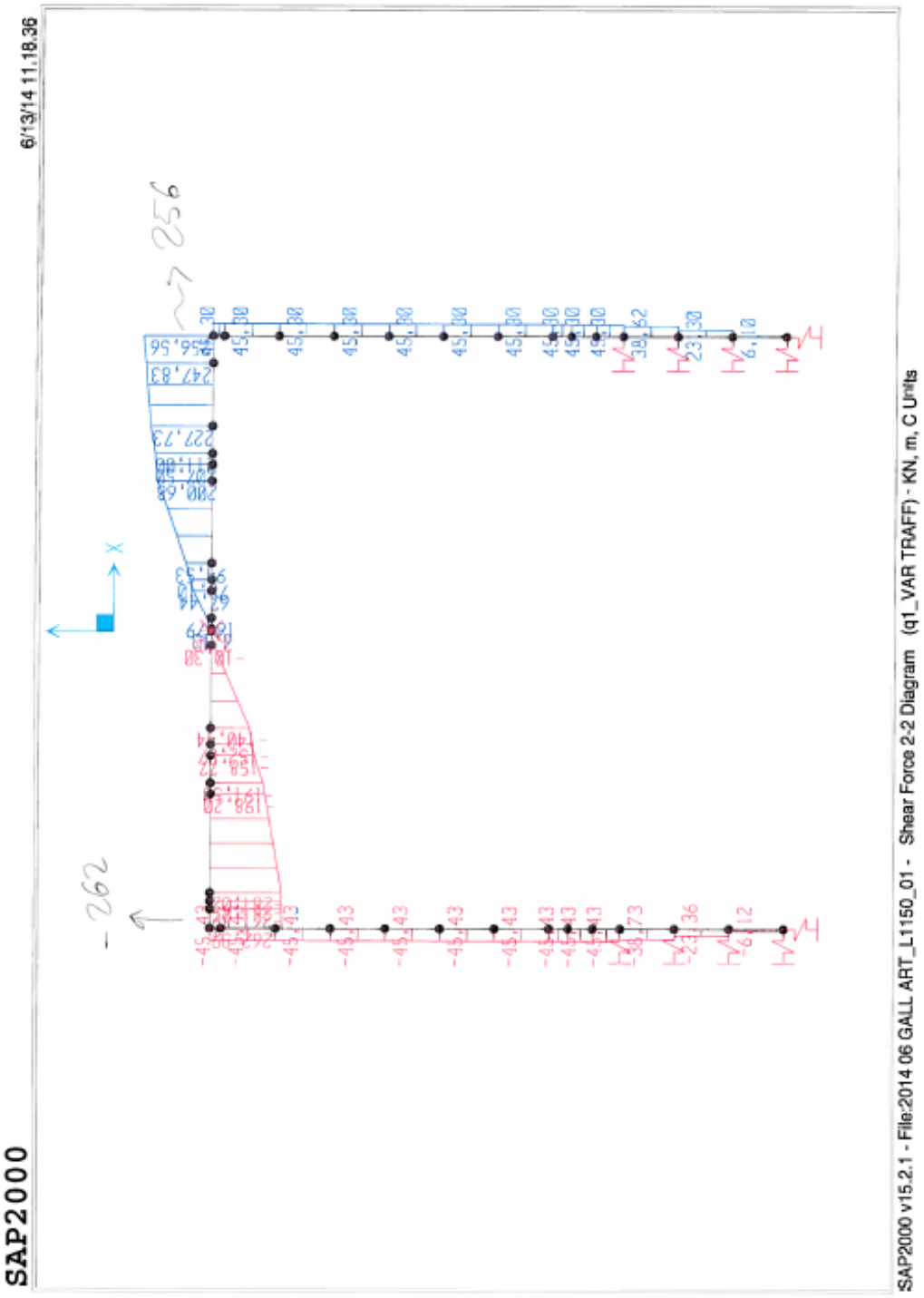
Condizione di carico / Load case	q1_VAR TRAFF	
Sforzo normale / Axial force	kN /m	



Condizione di carico / Load case	q1_VAR TRAFF	
Momento flettente / Bending moment	kN* m /m	

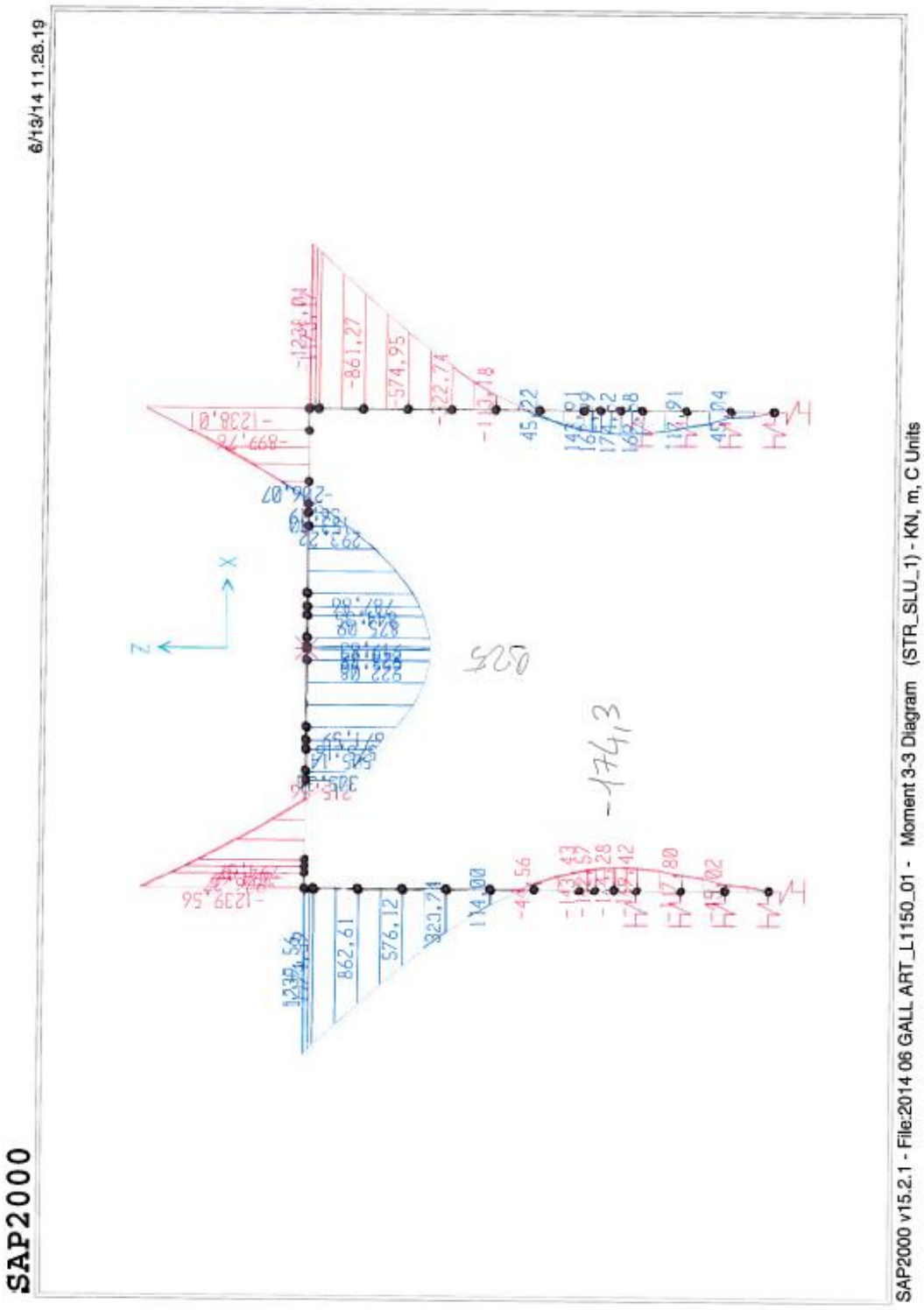


Condizione di carico / Load case	q1_VAR TRAFF	
Taglio / Shear force	kN /m	

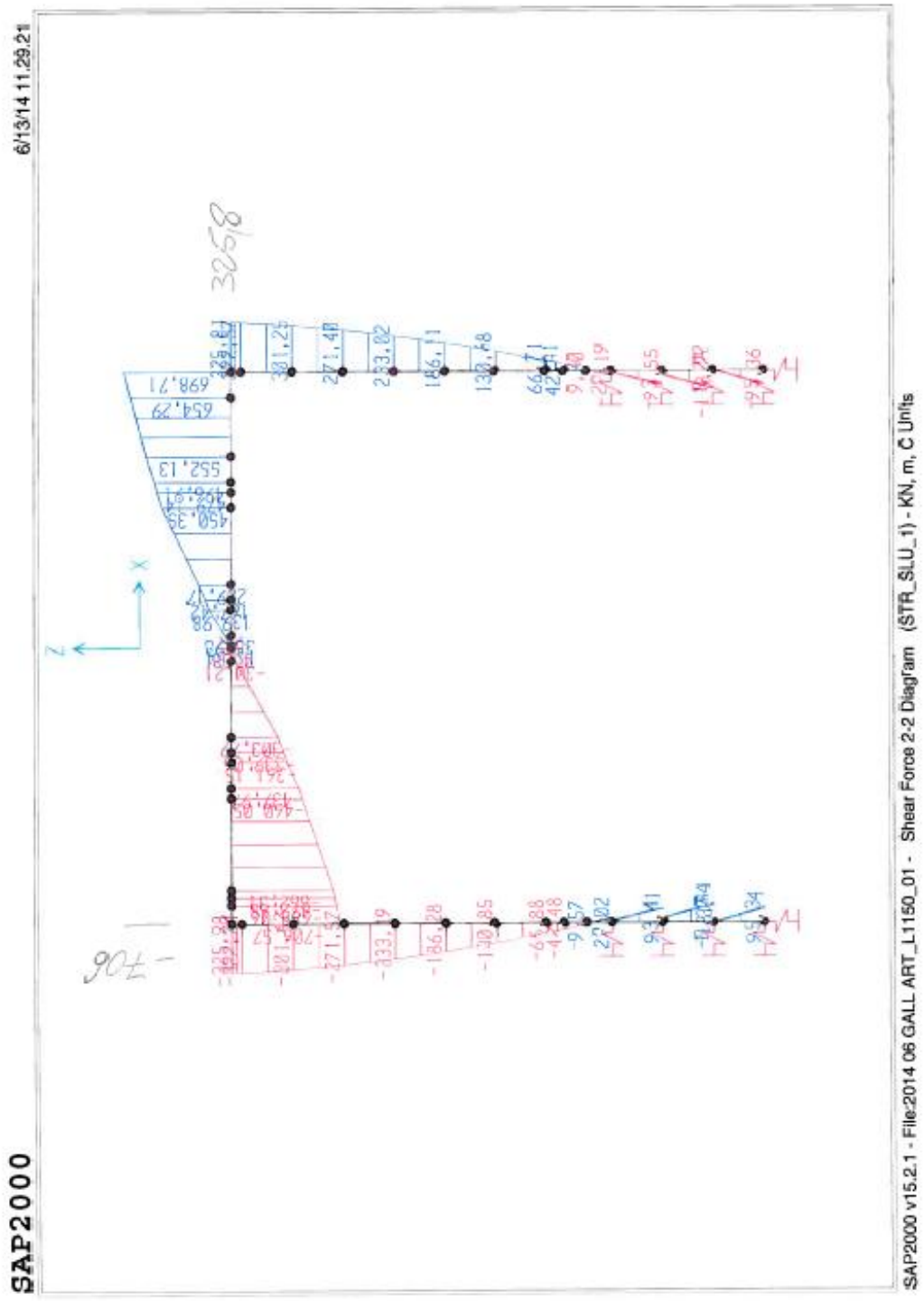


Combinazione di carico / Load combination	STR_SLU_1	
Sforzo normale / Axial force	kN /m	

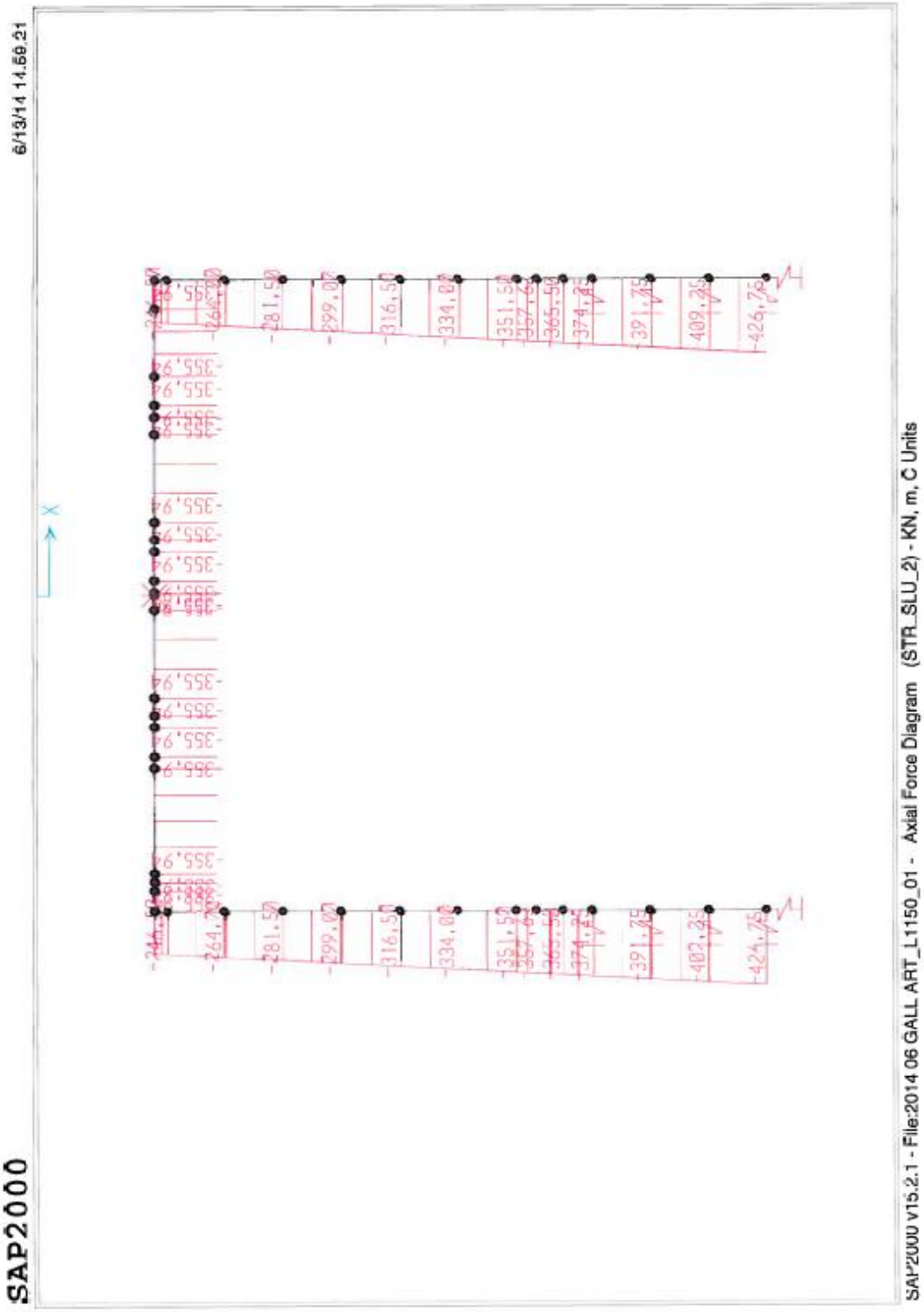
Combinazione di carico / Load combination	STR_SLU_1	
Momento flettente / Bending moment	kN* m /m	



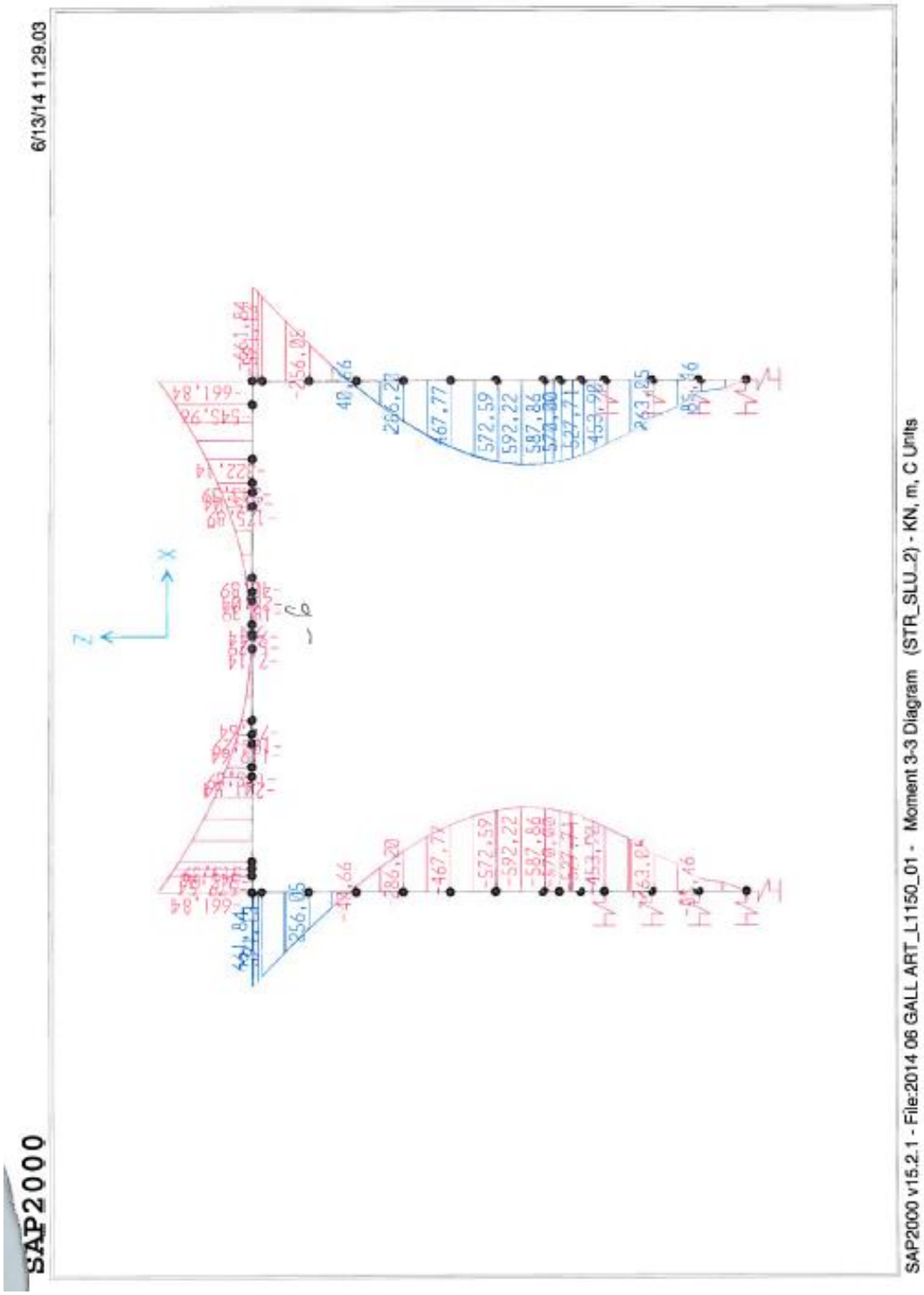
Combinazione di carico / Load combination	STR_SLU_1	
Taglio / Shear force	kN /m	



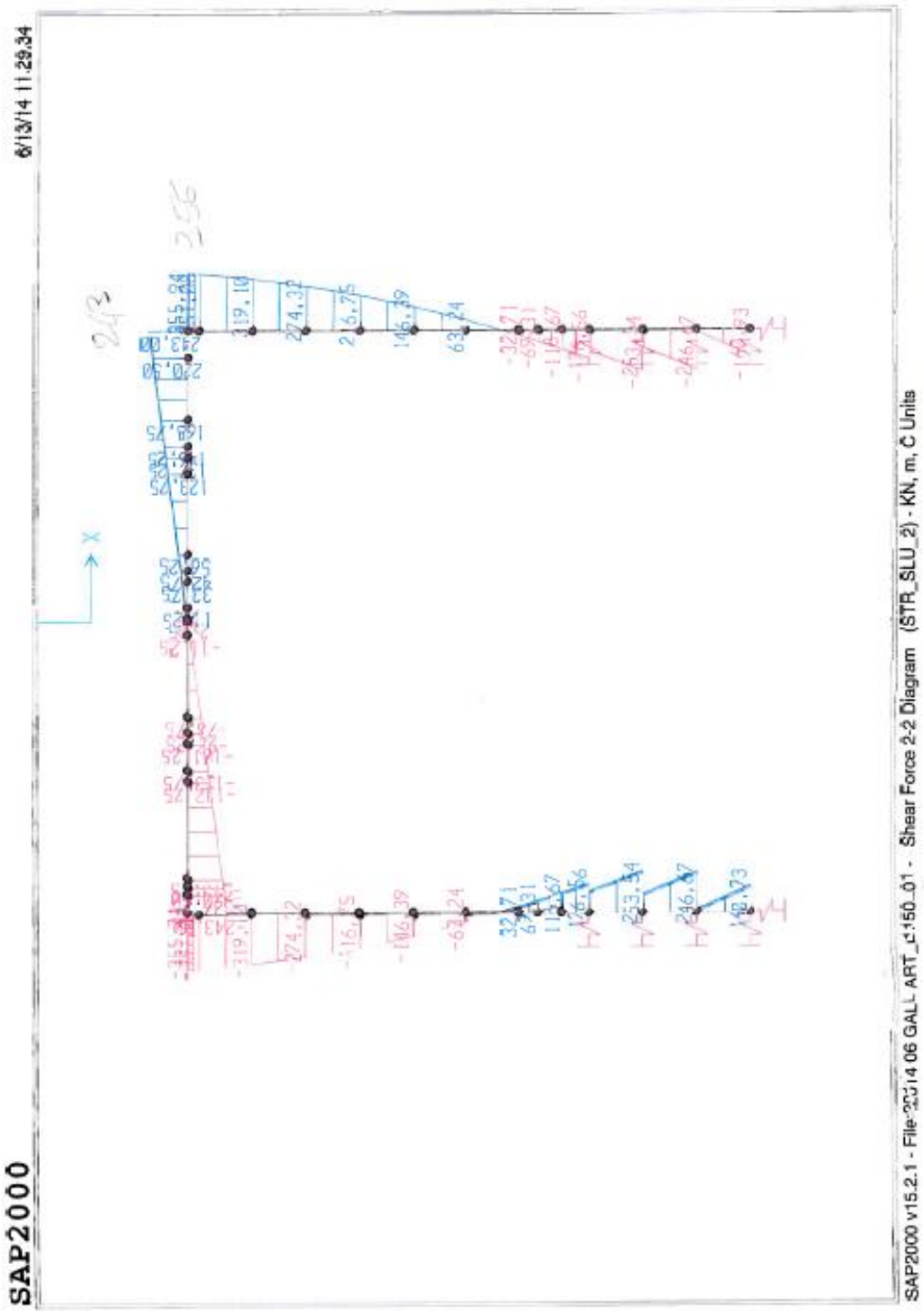
Combinazione di carico / Load combination	STR_SLU_2	
Sforzo normale / Axial force	kN /m	



Combinazione di carico / Load combination	STR_SLU_2	
Momento flettente / Bending moment	kN* m /m	

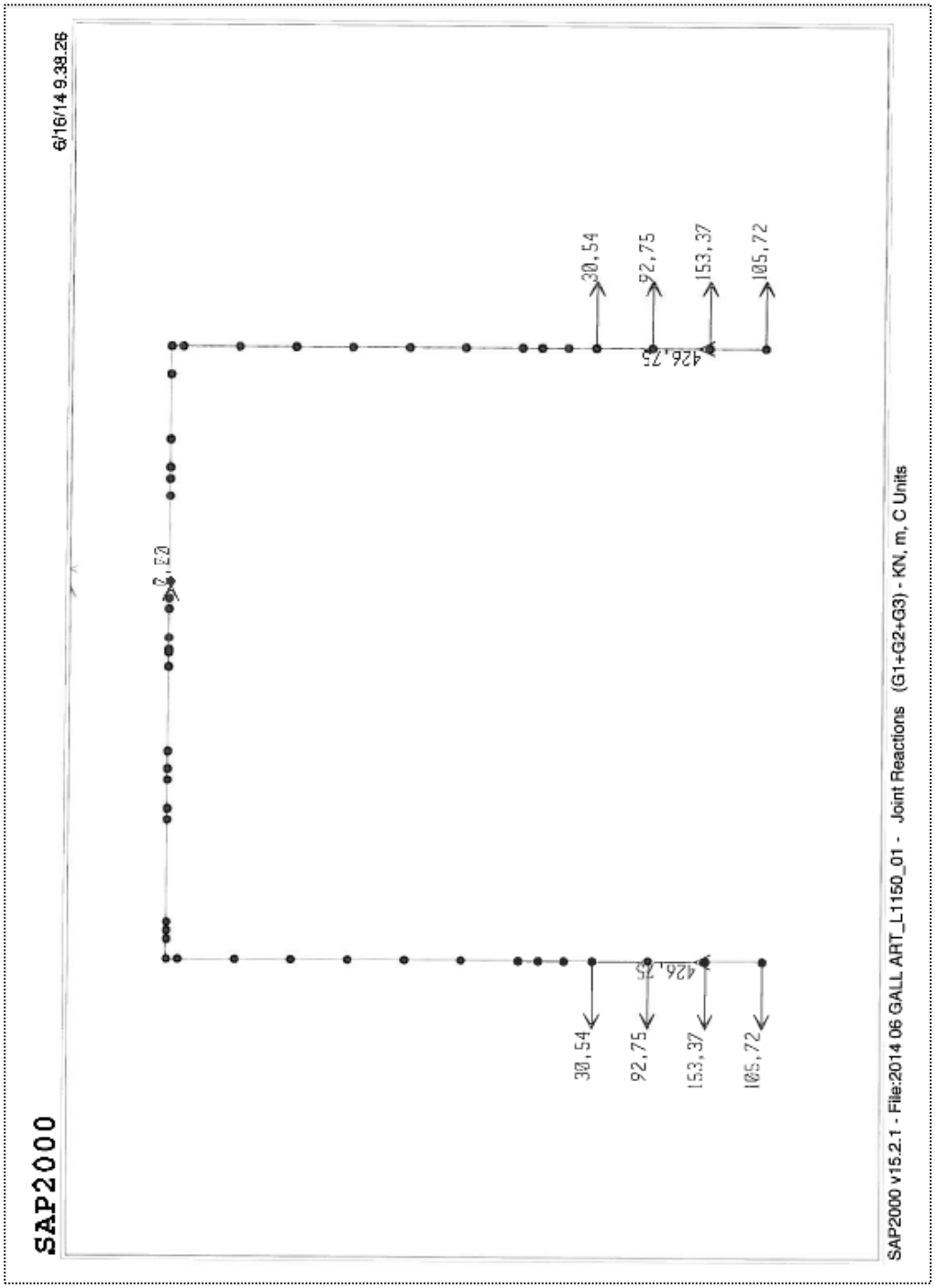


Combinazione di carico / Load combination	STR_SLU_2	
Taglio / Shear force	kN /m	

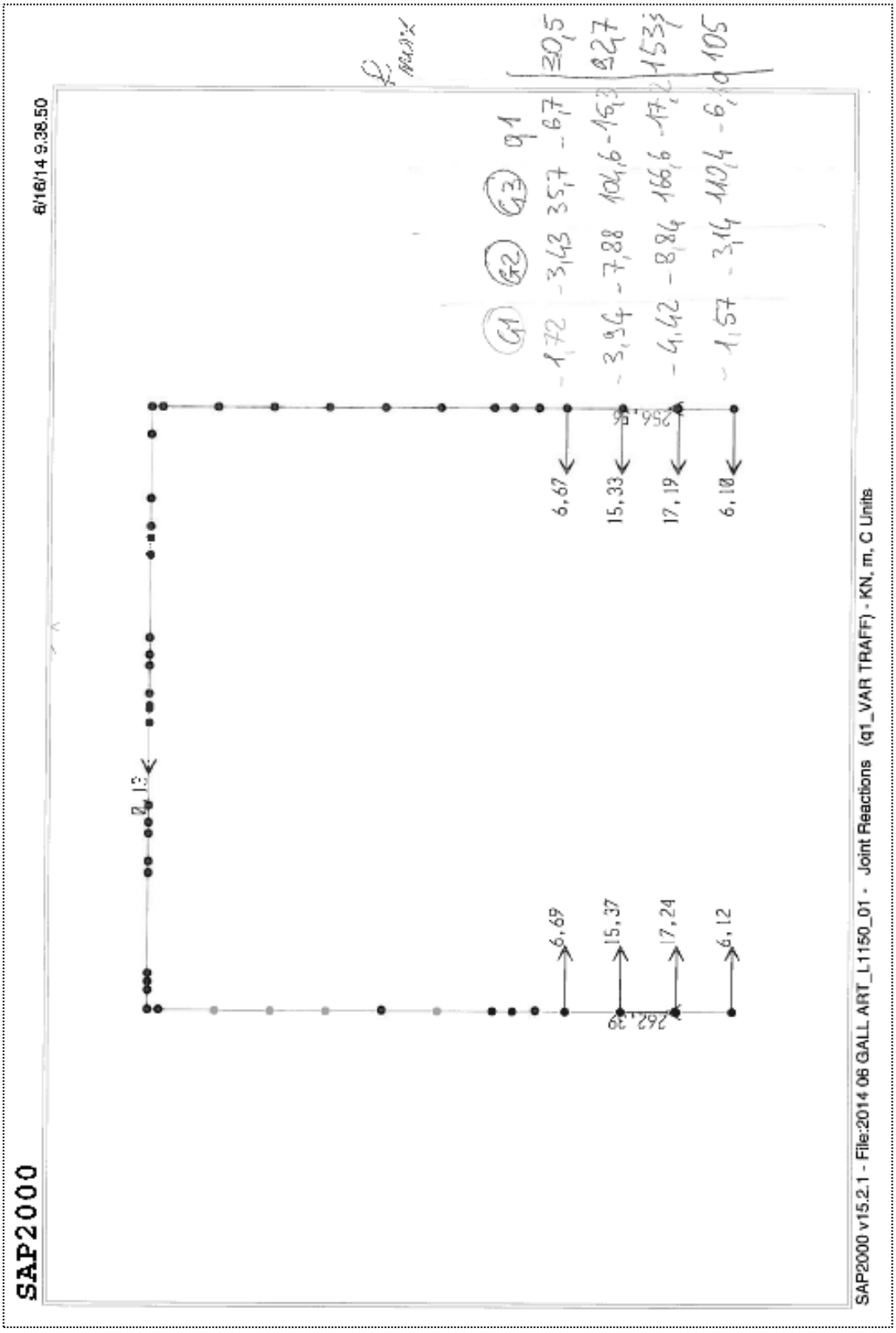


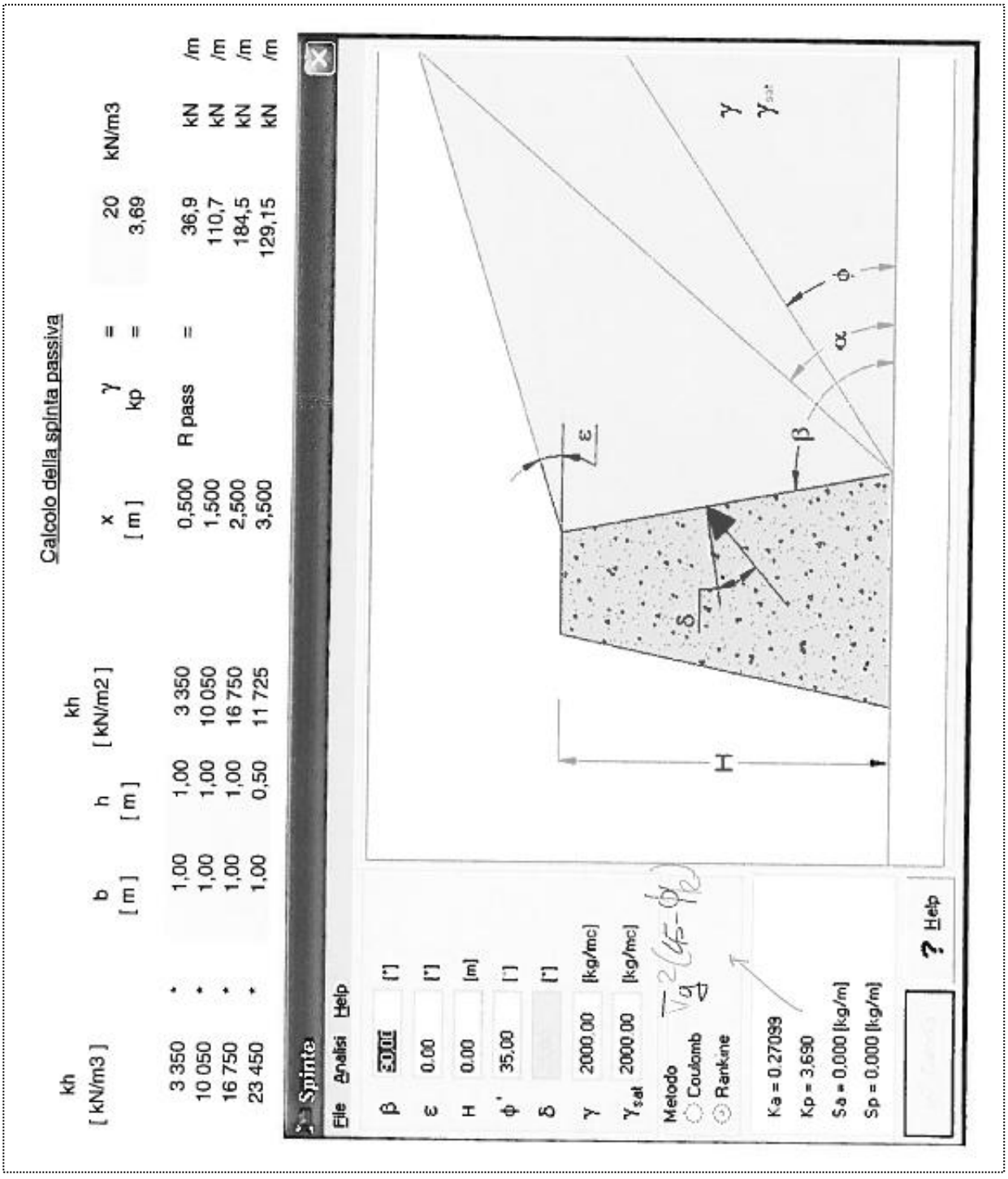
6.4 Verifica delle massime reazioni ottenute sulle molle rotizzontali / check of maximum reactions on horizontal springs

Load case G1+G2+G3



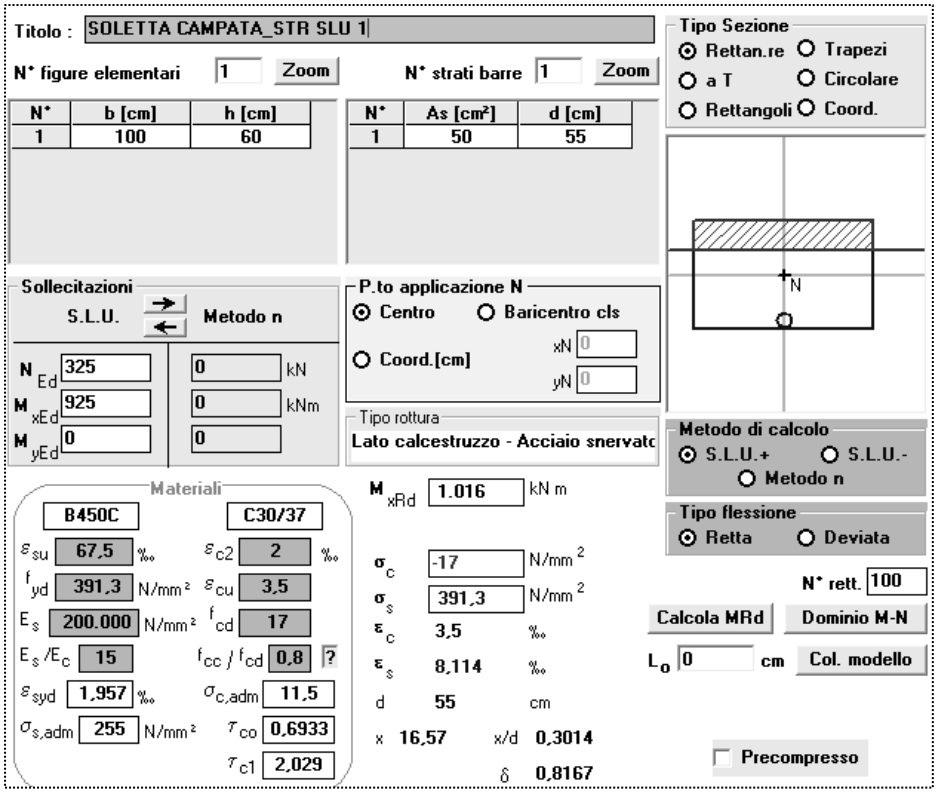
Load case: q1_VAR TRAFF

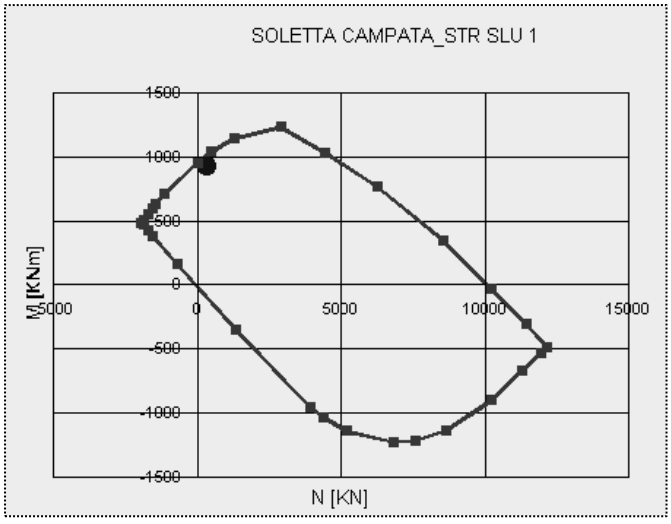



Calcolo della spinta passiva
kh [kN/m3]
3 350
10 050
16 750
23 450
b [m]
h [m]
kh [kN/m2]
x [m]
0,500
1,500
2,500
3,500
R pass
γ kp
20
3,69
kN/m3
36,9 kN /m
110,7 kN /m
184,5 kN /m
129,15 kN /m
Spinta
File Analisi Help
β 0.00 [°]
ε 0.00 [°]
H 0.00 [m]
ϕ' 35.00 [°]
δ [°]
γ 2000.00 [kg/mc]
γsat 2000.00 [kg/mc]
Metodo
Coulomb
Rankine
Ka = 0.27039
Kp = 3.690
Sa = 0.000 [kg/m]
Sp = 0.000 [kg/m]
? Help
H
δ
ε
β
α
ϕ
γ
γsat

6.5 Verifica a flessione delle sezioni principali

6.5.1 Verifica di resistenza STR per combinazione fondamentale allo SLU – Sezione soletta campata





6.5.2 Verifica di resistenza STR per combinazione fondamentale allo SLU – Sezione soletta incastro

Titolo : SOLETTA INCASTRO_STR SLU 1

N° figure elementari 1 Zoom — N° strati barre 1 Zoom

N°	b [cm]	h [cm]
1	100	60

N°	As [cm²]	d [cm]
1	75	5

Tipo Sezione: (•) Rettan.re ( ) Trapezi ( ) a T ( ) Circolare ( ) Rettangoli ( ) Coord.

Sollecitazioni — S.L.U. — Metodo n

N_{Ed}	325	0 kN
M_{xEd}	-1238	0 kNm
M_{yEd}	0	0

P.to applicazione N: (•) Centro ( ) Baricentro cls ( ) Coord.[cm] xN 0 yN 0

Tipo rottura: Lato calcestruzzo - Acciaio snervato

Materiali

	B450C		C30/37	
ε_{su}	67,5	‰	ε_{c2}	2 ‰
f_{yd}	391,3	N/mm²	ε_{cu}	3,5
E_s	200.000	N/mm²	f_{cd}	17
E_s/E_c	15		f_{cc}/f_{cd}	0,8 ?
ε_{syd}	1,957	‰	$\sigma_{c,adm}$	11,5
$\sigma_{s,adm}$	255	N/mm²	τ_{co}	0,6933
			τ_{c1}	2,029

M_{xRd} -1.390 kN m

σ_c	-17	N/mm²
σ_s	391,3	N/mm²
ε_c	3,5	‰
ε_s	4,628	‰
d	55	cm
x	23,68	x/d 0,4306
		δ 0,9783

Metodo di calcolo: ( ) S.L.U.+ (•) S.L.U.- ( ) Metodo n

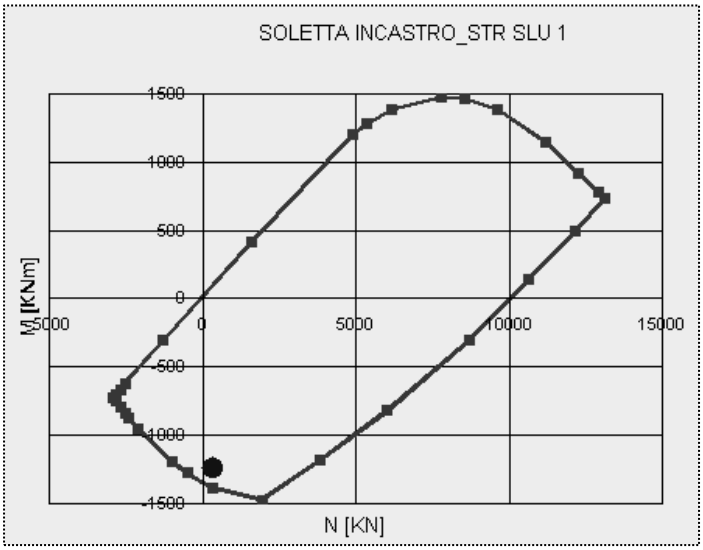
Tipo flessione: (•) Retta ( ) Deviata

N° rett. 100

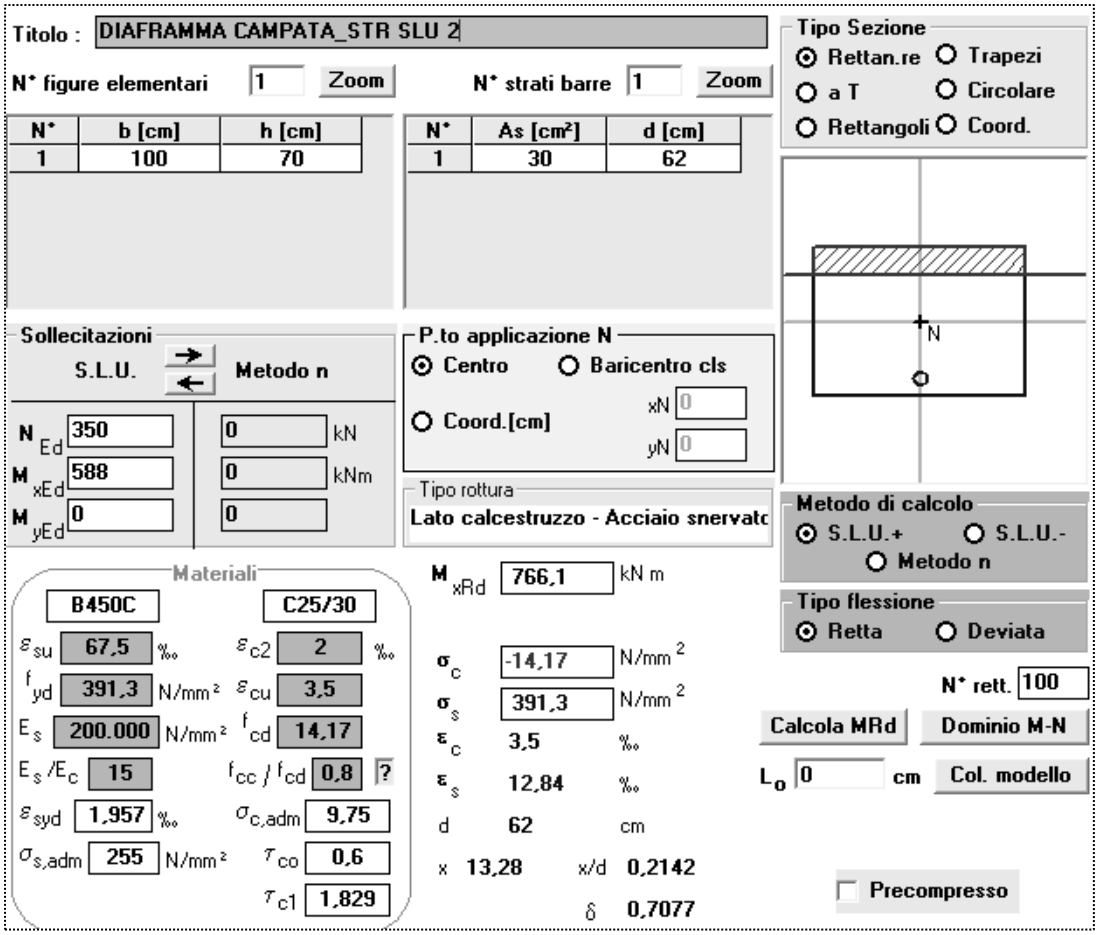
Calcola MRd | Dominio M-N

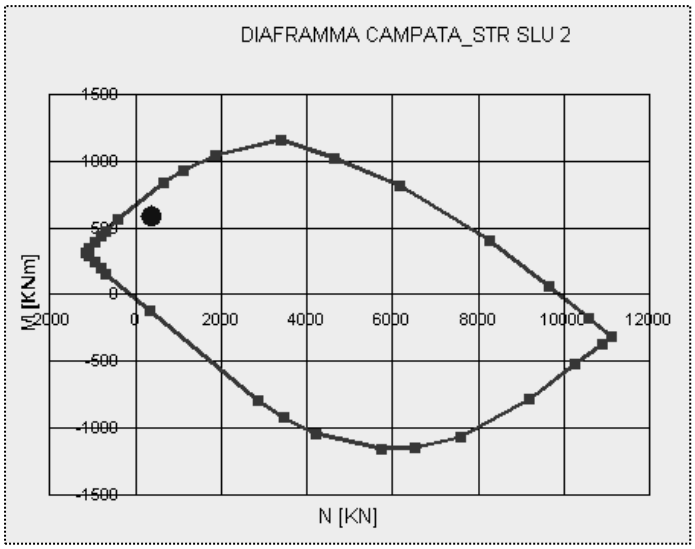
L_o 0 cm | Col. modello

☐ Precompresso

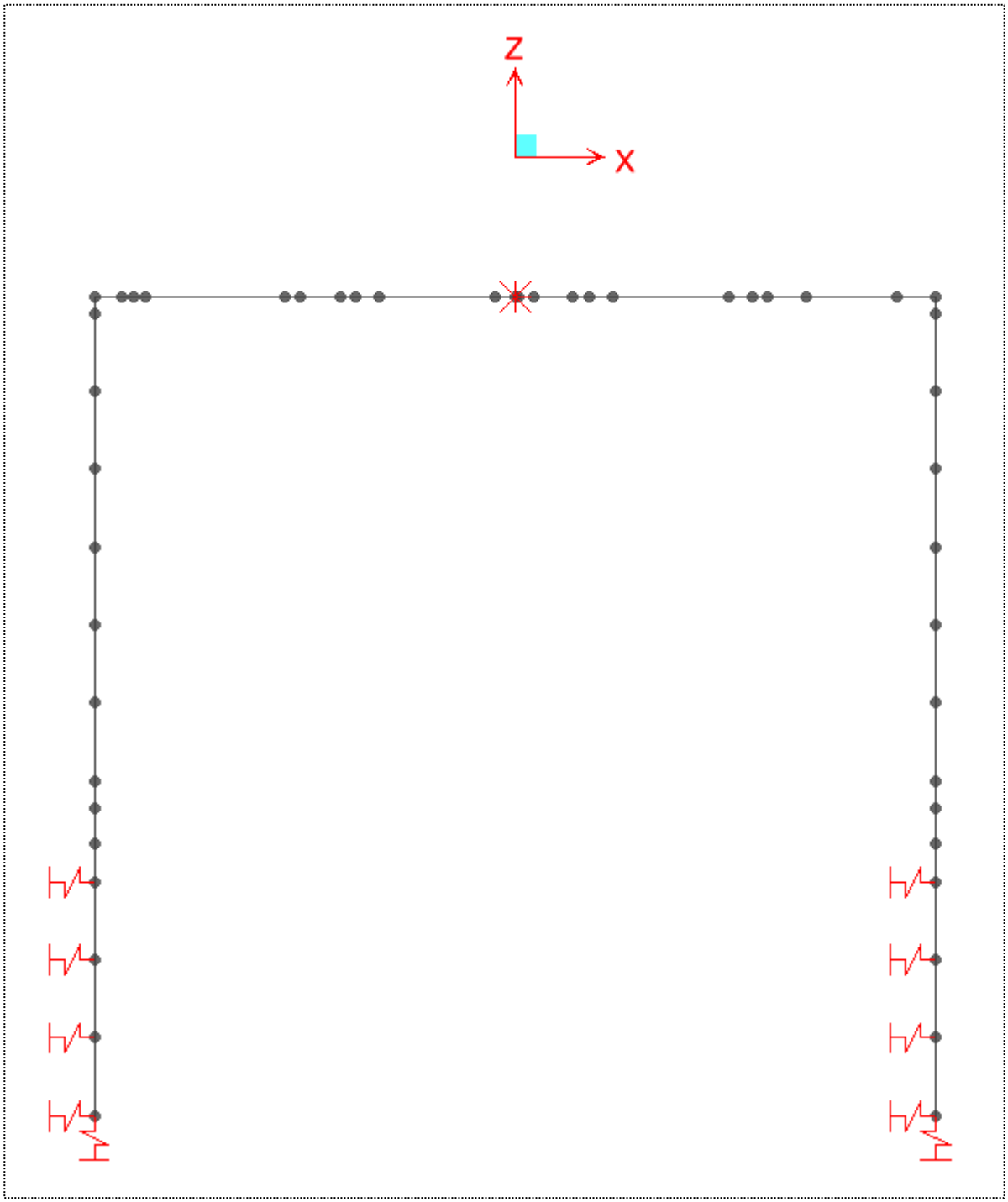


6.5.3 Verifica di resistenza STR per combinazione fondamentale allo SLU – Sezione diaframma campata

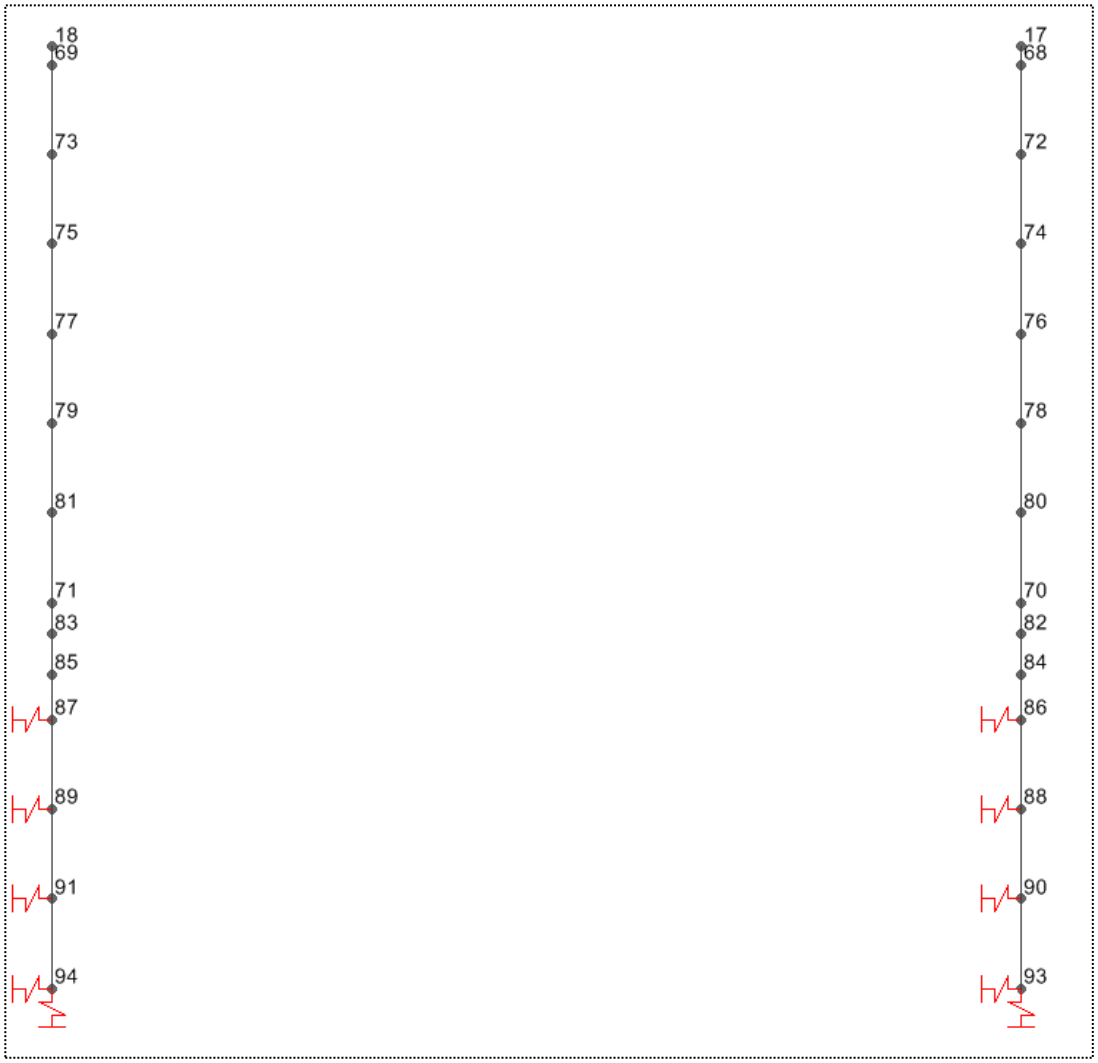




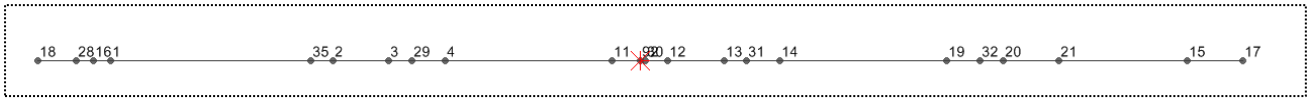
6.6 Files di input ed output del modello di calcolo



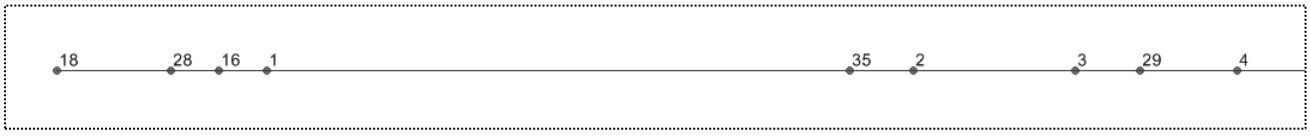
Numerazione nodi piedritto / Wall joint numbering



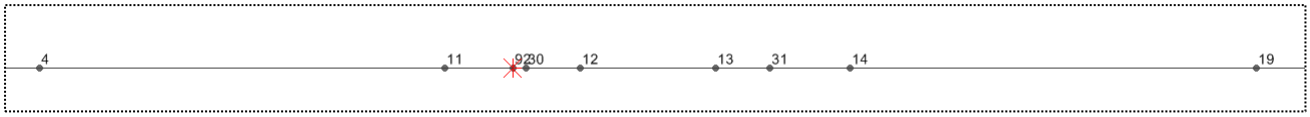
Numerazione nodi soletta / Slab joint numbering



Zoom 1 / 3

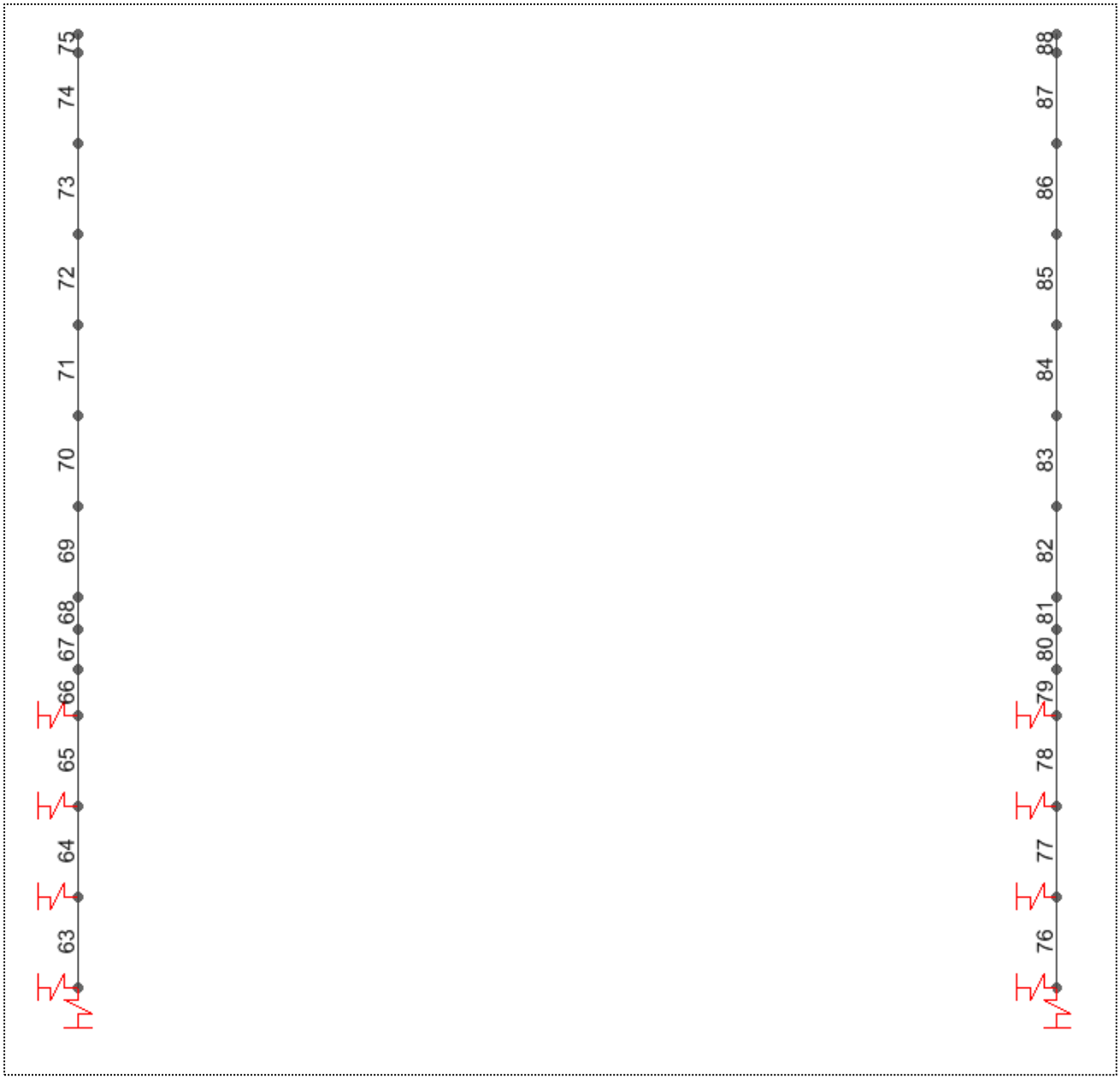


Zoom 2 / 3

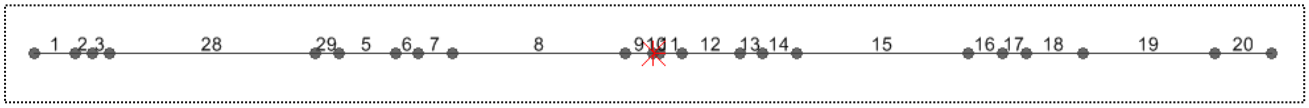


Zoom 3 / 3

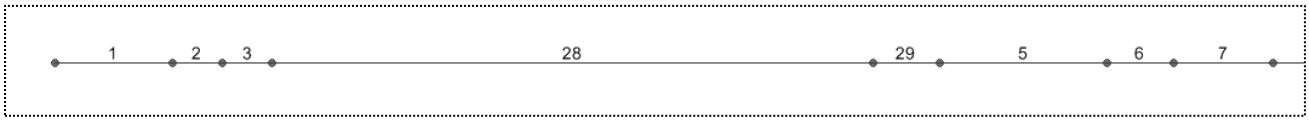
Numerazione frame piedritto / Wall frame numbering



Numerazione frame soletta / Slab frame numbering



Zoom 1 / 3



Zoom 2 / 3

Zoom 3 / 3

6.6.1 Input file

Table: Connectivity - Frame, Part 1 of 2

Table: Connectivity - Frame, Part 1 of 2

Frame	JointI	JointJ	IsCurved	Length	CentroidX	CentroidY	CentroidZ
				m	m	m	m
1	18	28	No	0,35000	-5,22500	0,00000	-1,80000
2	28	16	No	0,15000	-4,97500	0,00000	-1,80000
3	16	1	No	0,15000	-4,82500	0,00000	-1,80000
5	2	3	No	0,50000	-2,50000	0,00000	-1,80000
6	3	29	No	0,20000	-2,15000	0,00000	-1,80000
7	29	4	No	0,30000	-1,90000	0,00000	-1,80000
8	4	11	No	1,50000	-1,00000	0,00000	-1,80000
9	11	92	No	0,25000	-0,12500	0,00000	-1,80000
10	92	30	No	0,05000	0,02500	0,00000	-1,80000
11	30	12	No	0,20000	0,15000	0,00000	-1,80000
12	12	13	No	0,50000	0,50000	0,00000	-1,80000
13	13	31	No	0,20000	0,85000	0,00000	-1,80000
14	31	14	No	0,30000	1,10000	0,00000	-1,80000
15	14	19	No	1,50000	2,00000	0,00000	-1,80000
16	19	32	No	0,30000	2,90000	0,00000	-1,80000
17	32	20	No	0,20000	3,15000	0,00000	-1,80000
18	20	21	No	0,50000	3,50000	0,00000	-1,80000
19	21	15	No	1,15000	4,32500	0,00000	-1,80000
20	15	17	No	0,50000	5,15000	0,00000	-1,80000
28	1	35	No	1,80000	-3,85000	0,00000	-1,80000
29	35	2	No	0,20000	-2,85000	0,00000	-1,80000
63	94	91	No	1,00000	-5,40000	0,00000	-11,80000
64	91	89	No	1,00000	-5,40000	0,00000	-10,80000
65	89	87	No	1,00000	-5,40000	0,00000	-9,80000
66	87	85	No	0,50000	-5,40000	0,00000	-9,05000
67	85	83	No	0,45000	-5,40000	0,00000	-8,57500

Table: Connectivity - Frame, Part 1 of 2

Frame	JointI	JointJ	IsCurved	Length	CentroidX	CentroidY	CentroidZ
				m	m	m	m
68	83	71	No	0,35000	-5,40000	0,00000	-8,17500
69	71	81	No	1,00000	-5,40000	0,00000	-7,50000
70	81	79	No	1,00000	-5,40000	0,00000	-6,50000
71	79	77	No	1,00000	-5,40000	0,00000	-5,50000
72	77	75	No	1,00000	-5,40000	0,00000	-4,50000
73	75	73	No	1,00000	-5,40000	0,00000	-3,50000
74	73	69	No	1,00000	-5,40000	0,00000	-2,50000
75	69	18	No	0,20000	-5,40000	0,00000	-1,90000
76	93	90	No	1,00000	5,40000	0,00000	-11,80000
77	90	88	No	1,00000	5,40000	0,00000	-10,80000
78	88	86	No	1,00000	5,40000	0,00000	-9,80000
79	86	84	No	0,50000	5,40000	0,00000	-9,05000
80	84	82	No	0,45000	5,40000	0,00000	-8,57500
81	82	70	No	0,35000	5,40000	0,00000	-8,17500
82	70	80	No	1,00000	5,40000	0,00000	-7,50000
83	80	78	No	1,00000	5,40000	0,00000	-6,50000
84	78	76	No	1,00000	5,40000	0,00000	-5,50000
85	76	74	No	1,00000	5,40000	0,00000	-4,50000
86	74	72	No	1,00000	5,40000	0,00000	-3,50000
87	72	68	No	1,00000	5,40000	0,00000	-2,50000
88	68	17	No	0,20000	5,40000	0,00000	-1,90000

Table: Connectivity - Frame, Part 2 of 2

Table: Connectivity - Frame, Part 2 of 2

Frame	GUID
1	
2	
3	
5	
6	

Table: Connectivity - Frame, Part 2 of 2

Frame	GUID
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
28	
29	
63	
64	
65	
66	
67	
68	
69	
70	
71	
72	
73	
74	
75	
76	
77	
78	

Table: Connectivity - Frame, Part 2 of 2

Frame	GUID
79	
80	
81	
82	
83	
84	
85	
86	
87	
88	

Table: Frame Loads - Distributed, Part 1 of 3

Table: Frame Loads - Distributed, Part 1 of 3

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
1	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
1	Q_RIM_DIS	GLOBAL	Force	Z	RelDist	0,0000
2	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
2	Q_C2_DIS	GLOBAL	Force	Z	RelDist	0,0000
2	Q_RIM_DIS	GLOBAL	Force	Z	RelDist	0,0000
3	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
3	Q_C2_DIS	GLOBAL	Force	Z	RelDist	0,0000
3	Q_RIM_DIS	GLOBAL	Force	Z	RelDist	0,0000
5	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
5	Q_C2_DIS	GLOBAL	Force	Z	RelDist	0,0000
5	Q_C2_CONC	GLOBAL	Force	Z	RelDist	0,0000
6	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
6	Q_C2_DIS	GLOBAL	Force	Z	RelDist	0,0000
6	Q_C2_CONC	GLOBAL	Force	Z	RelDist	0,0000
7	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
7	Q_C1_DIS	GLOBAL	Force	Z	RelDist	0,0000

Table: Frame Loads - Distributed, Part 1 of 3

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
7	Q_C2_DIS	GLOBAL	Force	Z	RelDist	0,0000
7	Q_C2_CONC	GLOBAL	Force	Z	RelDist	0,0000
8	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
8	Q_C1_DIS	GLOBAL	Force	Z	RelDist	0,0000
8	Q_C2_DIS	GLOBAL	Force	Z	RelDist	0,0000
8	Q_C2_CONC	GLOBAL	Force	Z	RelDist	0,0000
8	Q_C1_CONC	GLOBAL	Force	Z	RelDist	0,0000
9	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
9	Q_C1_DIS	GLOBAL	Force	Z	RelDist	0,0000
9	Q_C2_DIS	GLOBAL	Force	Z	RelDist	0,0000
9	Q_C1_CONC	GLOBAL	Force	Z	RelDist	0,0000
10	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
10	Q_C1_DIS	GLOBAL	Force	Z	RelDist	0,0000
10	Q_C2_DIS	GLOBAL	Force	Z	RelDist	0,0000
10	Q_C1_CONC	GLOBAL	Force	Z	RelDist	0,0000
11	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
11	Q_C1_DIS	GLOBAL	Force	Z	RelDist	0,0000
11	Q_C1_CONC	GLOBAL	Force	Z	RelDist	0,0000
12	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
12	Q_C1_DIS	GLOBAL	Force	Z	RelDist	0,0000
12	Q_C1_CONC	GLOBAL	Force	Z	RelDist	0,0000
13	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
13	Q_C1_DIS	GLOBAL	Force	Z	RelDist	0,0000
13	Q_C1_CONC	GLOBAL	Force	Z	RelDist	0,0000
14	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
14	Q_C1_DIS	GLOBAL	Force	Z	RelDist	0,0000
14	Q_C3_DIS	GLOBAL	Force	Z	RelDist	0,0000
14	Q_C1_CONC	GLOBAL	Force	Z	RelDist	0,0000
15	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
15	Q_C1_DIS	GLOBAL	Force	Z	RelDist	0,0000
15	Q_C3_DIS	GLOBAL	Force	Z	RelDist	0,0000
15	Q_C1_CONC	GLOBAL	Force	Z	RelDist	0,0000

Table: Frame Loads - Distributed, Part 1 of 3

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
15	Q_C3_CONC	GLOBAL	Force	Z	RelDist	0,0000
16	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
16	Q_C1_DIS	GLOBAL	Force	Z	RelDist	0,0000
16	Q_C3_DIS	GLOBAL	Force	Z	RelDist	0,0000
16	Q_C3_CONC	GLOBAL	Force	Z	RelDist	0,0000
17	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
17	Q_C3_DIS	GLOBAL	Force	Z	RelDist	0,0000
17	Q_C3_CONC	GLOBAL	Force	Z	RelDist	0,0000
18	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
18	Q_C3_DIS	GLOBAL	Force	Z	RelDist	0,0000
18	Q_C3_CONC	GLOBAL	Force	Z	RelDist	0,0000
19	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
19	Q_C3_DIS	GLOBAL	Force	Z	RelDist	0,0000
19	Q_C3_CONC	GLOBAL	Force	Z	RelDist	0,0000
20	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
20	Q_C3_DIS	GLOBAL	Force	Z	RelDist	0,0000
20	Q_C3_CONC	GLOBAL	Force	Z	RelDist	0,0000
63	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
64	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
65	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
66	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
67	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
68	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
69	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
70	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
71	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
72	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
73	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
74	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
75	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
76	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
77	G3_TERR	GLOBAL	Force	X	RelDist	0,0000

Table: Frame Loads - Distributed, Part 1 of 3

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
78	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
79	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
80	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
81	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
82	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
83	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
84	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
85	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
86	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
87	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
88	G3_TERR	GLOBAL	Force	X	RelDist	0,0000
28	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
28	Q_C2_CONC	GLOBAL	Force	Z	RelDist	0,0000
28	Q_C2_DIS	GLOBAL	Force	Z	RelDist	0,0000
28	Q_RIM_DIS	GLOBAL	Force	Z	RelDist	0,0000
29	G2_PER POR	GLOBAL	Force	Z	RelDist	0,0000
29	Q_C2_CONC	GLOBAL	Force	Z	RelDist	0,0000
29	Q_C2_DIS	GLOBAL	Force	Z	RelDist	0,0000

Table: Frame Loads - Distributed, Part 2 of 3

Table: Frame Loads - Distributed, Part 2 of 3

Frame	LoadPat	RelDistB	AbsDistA	AbsDistB	FOverLA	FOverLB
			m	m	KN/m	KN/m
1	G2_PER POR	1,0000	0,00000	0,35000	-30,00	-30,00
1	Q_RIM_DIS	1,0000	0,00000	0,35000	-1,43	-1,43
2	G2_PER POR	1,0000	0,00000	0,15000	-30,00	-30,00
2	Q_C2_DIS	1,0000	0,00000	0,15000	-1,47	-1,47
2	Q_RIM_DIS	1,0000	0,00000	0,15000	-1,43	-1,43
3	G2_PER POR	1,0000	0,00000	0,15000	-30,00	-30,00
3	Q_C2_DIS	1,0000	0,00000	0,15000	-1,47	-1,47
3	Q_RIM_DIS	1,0000	0,00000	0,15000	-1,43	-1,43

Table: Frame Loads - Distributed, Part 2 of 3

Frame	LoadPat	RelDistB	AbsDistA	AbsDistB	FOverLA	FOverLB
			m	m	KN/m	KN/m
5	G2_PER POR	1,0000	0,00000	0,50000	-30,00	-30,00
5	Q_C2_DIS	1,0000	0,00000	0,50000	-1,47	-1,47
5	Q_C2_CONC	1,0000	0,00000	0,50000	-64,00	-64,00
6	G2_PER POR	1,0000	0,00000	0,20000	-30,00	-30,00
6	Q_C2_DIS	1,0000	0,00000	0,20000	-1,47	-1,47
6	Q_C2_CONC	1,0000	0,00000	0,20000	-32,00	-32,00
7	G2_PER POR	1,0000	0,00000	0,30000	-30,00	-30,00
7	Q_C1_DIS	1,0000	0,00000	0,30000	-5,29	-5,29
7	Q_C2_DIS	1,0000	0,00000	0,30000	-1,47	-1,47
7	Q_C2_CONC	1,0000	0,00000	0,30000	-32,00	-32,00
8	G2_PER POR	1,0000	0,00000	1,50000	-30,00	-30,00
8	Q_C1_DIS	1,0000	0,00000	1,50000	-5,29	-5,29
8	Q_C2_DIS	1,0000	0,00000	1,50000	-1,47	-1,47
8	Q_C2_CONC	1,0000	0,00000	1,50000	-32,00	-32,00
8	Q_C1_CONC	1,0000	0,00000	1,50000	-48,00	-48,00
9	G2_PER POR	1,0000	0,00000	0,25000	-30,00	-30,00
9	Q_C1_DIS	1,0000	0,00000	0,25000	-5,29	-5,29
9	Q_C2_DIS	1,0000	0,00000	0,25000	-1,47	-1,47
9	Q_C1_CONC	1,0000	0,00000	0,25000	-48,00	-48,00
10	G2_PER POR	1,0000	0,00000	0,05000	-30,00	-30,00
10	Q_C1_DIS	1,0000	0,00000	0,05000	-5,29	-5,29
10	Q_C2_DIS	1,0000	0,00000	0,05000	-1,47	-1,47
10	Q_C1_CONC	1,0000	0,00000	0,05000	-48,00	-48,00
11	G2_PER POR	1,0000	0,00000	0,20000	-30,00	-30,00
11	Q_C1_DIS	1,0000	0,00000	0,20000	-5,29	-5,29
11	Q_C1_CONC	1,0000	0,00000	0,20000	-48,00	-48,00
12	G2_PER POR	1,0000	0,00000	0,50000	-30,00	-30,00
12	Q_C1_DIS	1,0000	0,00000	0,50000	-5,29	-5,29
12	Q_C1_CONC	1,0000	0,00000	0,50000	-96,00	-96,00
13	G2_PER POR	1,0000	0,00000	0,20000	-30,00	-30,00
13	Q_C1_DIS	1,0000	0,00000	0,20000	-5,29	-5,29
13	Q_C1_CONC	1,0000	0,00000	0,20000	-48,00	-48,00

Table: Frame Loads - Distributed, Part 2 of 3

Frame	LoadPat	RelDistB	AbsDistA	AbsDistB	FOverLA	FOverLB
			m	m	KN/m	KN/m
14	G2_PER POR	1,0000	0,00000	0,30000	-30,00	-30,00
14	Q_C1_DIS	1,0000	0,00000	0,30000	-5,29	-5,29
14	Q_C3_DIS	1,0000	0,00000	0,30000	-1,47	-1,47
14	Q_C1_CONC	1,0000	0,00000	0,30000	-48,00	-48,00
15	G2_PER POR	1,0000	0,00000	1,50000	-30,00	-30,00
15	Q_C1_DIS	1,0000	0,00000	1,50000	-5,29	-5,29
15	Q_C3_DIS	1,0000	0,00000	1,50000	-1,47	-1,47
15	Q_C1_CONC	1,0000	0,00000	1,50000	-48,00	-48,00
15	Q_C3_CONC	1,0000	0,00000	1,50000	-16,00	-16,00
16	G2_PER POR	1,0000	0,00000	0,30000	-30,00	-30,00
16	Q_C1_DIS	1,0000	0,00000	0,30000	-5,29	-5,29
16	Q_C3_DIS	1,0000	0,00000	0,30000	-1,47	-1,47
16	Q_C3_CONC	1,0000	0,00000	0,30000	-16,00	-16,00
17	G2_PER POR	1,0000	0,00000	0,20000	-30,00	-30,00
17	Q_C3_DIS	1,0000	0,00000	0,20000	-1,47	-1,47
17	Q_C3_CONC	1,0000	0,00000	0,20000	-16,00	-16,00
18	G2_PER POR	1,0000	0,00000	0,50000	-30,00	-30,00
18	Q_C3_DIS	1,0000	0,00000	0,50000	-1,47	-1,47
18	Q_C3_CONC	1,0000	0,00000	0,50000	-32,00	-32,00
19	G2_PER POR	1,0000	0,00000	1,15000	-30,00	-30,00
19	Q_C3_DIS	1,0000	0,00000	1,15000	-1,47	-1,47
19	Q_C3_CONC	1,0000	0,00000	1,15000	-16,00	-16,00
20	G2_PER POR	1,0000	0,00000	0,50000	-30,00	-30,00
20	Q_C3_DIS	1,0000	0,00000	0,50000	-1,47	-1,47
20	Q_C3_CONC	1,0000	0,00000	0,50000	-16,00	-16,00
63	G3_TERR	1,0000	0,00000	1,00000	100,64	100,64
64	G3_TERR	1,0000	0,00000	1,00000	92,11	92,11
65	G3_TERR	1,0000	0,00000	1,00000	83,58	83,58
66	G3_TERR	1,0000	0,00000	0,50000	77,18	77,18
67	G3_TERR	1,0000	0,00000	0,45000	73,13	73,13
68	G3_TERR	1,0000	0,00000	0,35000	69,72	69,72
69	G3_TERR	1,0000	0,00000	1,00000	63,96	63,96

Table: Frame Loads - Distributed, Part 2 of 3

Frame	LoadPat	RelDistB	AbsDistA	AbsDistB	FOverLA	FOverLB
			m	m	KN/m	KN/m
70	G3_TERR	1,0000	0,00000	1,00000	55,44	55,44
71	G3_TERR	1,0000	0,00000	1,00000	46,91	46,91
72	G3_TERR	1,0000	0,00000	1,00000	38,38	38,38
73	G3_TERR	1,0000	0,00000	1,00000	29,85	29,85
74	G3_TERR	1,0000	0,00000	1,00000	21,32	21,32
75	G3_TERR	1,0000	0,00000	0,20000	16,20	16,20
76	G3_TERR	1,0000	0,00000	1,00000	-100,64	-100,64
77	G3_TERR	1,0000	0,00000	1,00000	-92,11	-92,11
78	G3_TERR	1,0000	0,00000	1,00000	-83,58	-83,58
79	G3_TERR	1,0000	0,00000	0,50000	-77,18	-77,18
80	G3_TERR	1,0000	0,00000	0,45000	-73,13	-73,13
81	G3_TERR	1,0000	0,00000	0,35000	-69,72	-69,72
82	G3_TERR	1,0000	0,00000	1,00000	-63,96	-63,96
83	G3_TERR	1,0000	0,00000	1,00000	-55,44	-55,44
84	G3_TERR	1,0000	0,00000	1,00000	-46,91	-46,91
85	G3_TERR	1,0000	0,00000	1,00000	-38,38	-38,38
86	G3_TERR	1,0000	0,00000	1,00000	-29,85	-29,85
87	G3_TERR	1,0000	0,00000	1,00000	-21,32	-21,32
88	G3_TERR	1,0000	0,00000	0,20000	-16,20	-16,20
28	G2_PER POR	1,0000	0,00000	1,80000	-30,00	-30,00
28	Q_C2_CONC	1,0000	0,00000	1,80000	-32,00	-32,00
28	Q_C2_DIS	1,0000	0,00000	1,80000	-1,47	-1,47
28	Q_RIM_DIS	1,0000	0,00000	1,80000	-1,43	-1,43
29	G2_PER POR	1,0000	0,00000	0,20000	-30,00	-30,00
29	Q_C2_CONC	1,0000	0,00000	0,20000	-32,00	-32,00
29	Q_C2_DIS	1,0000	0,00000	0,20000	-1,47	-1,47

Table: Frame Loads - Distributed, Part 3 of 3

Table: Frame Loads - Distributed, Part 3 of 3

Frame	LoadPat	GUID
1	G2_PER POR	
1	Q_RIM_DIS	
2	G2_PER POR	
2	Q_C2_DIS	
2	Q_RIM_DIS	
3	G2_PER POR	
3	Q_C2_DIS	
3	Q_RIM_DIS	
5	G2_PER POR	
5	Q_C2_DIS	
5	Q_C2_CONC	
6	G2_PER POR	
6	Q_C2_DIS	
6	Q_C2_CONC	
7	G2_PER POR	
7	Q_C1_DIS	
7	Q_C2_DIS	
7	Q_C2_CONC	
8	G2_PER POR	
8	Q_C1_DIS	
8	Q_C2_DIS	
8	Q_C2_CONC	
8	Q_C1_CONC	
9	G2_PER POR	
9	Q_C1_DIS	
9	Q_C2_DIS	
9	Q_C1_CONC	
10	G2_PER POR	
10	Q_C1_DIS	
10	Q_C2_DIS	
10	Q_C1_CONC	

Table: Frame Loads - Distributed, Part 3 of 3

Frame	LoadPat	GUID
11	G2_PER POR	
11	Q_C1_DIS	
11	Q_C1_CONC	
12	G2_PER POR	
12	Q_C1_DIS	
12	Q_C1_CONC	
13	G2_PER POR	
13	Q_C1_DIS	
13	Q_C1_CONC	
14	G2_PER POR	
14	Q_C1_DIS	
14	Q_C3_DIS	
14	Q_C1_CONC	
15	G2_PER POR	
15	Q_C1_DIS	
15	Q_C3_DIS	
15	Q_C1_CONC	
15	Q_C3_CONC	
16	G2_PER POR	
16	Q_C1_DIS	
16	Q_C3_DIS	
16	Q_C3_CONC	
17	G2_PER POR	
17	Q_C3_DIS	
17	Q_C3_CONC	
18	G2_PER POR	
18	Q_C3_DIS	
18	Q_C3_CONC	
19	G2_PER POR	
19	Q_C3_DIS	
19	Q_C3_CONC	
20	G2_PER POR	

Table: Frame Loads - Distributed, Part 3 of 3

Frame	LoadPat	GUID
20	Q_C3_DIS	
20	Q_C3_CONC	
63	G3_TERR	
64	G3_TERR	
65	G3_TERR	
66	G3_TERR	
67	G3_TERR	
68	G3_TERR	
69	G3_TERR	
70	G3_TERR	
71	G3_TERR	
72	G3_TERR	
73	G3_TERR	
74	G3_TERR	
75	G3_TERR	
76	G3_TERR	
77	G3_TERR	
78	G3_TERR	
79	G3_TERR	
80	G3_TERR	
81	G3_TERR	
82	G3_TERR	
83	G3_TERR	
84	G3_TERR	
85	G3_TERR	
86	G3_TERR	
87	G3_TERR	
88	G3_TERR	
28	G2_PER POR	
28	Q_C2_CONC	
28	Q_C2_DIS	
28	Q_RIM_DIS	

Table: Frame Loads - Distributed, Part 3 of 3

Frame	LoadPat	GUID
29	G2_PER POR	
29	Q_C2_CONC	
29	Q_C2_DIS	

Table: Frame Loads - Gravity

Table: Frame Loads - Gravity

Frame	LoadPat	CoordSys	MultiplierX	MultiplierY	MultiplierZ
1	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
2	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
3	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
5	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
6	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
7	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
8	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
9	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
10	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
11	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
12	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
13	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
14	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
15	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
16	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
17	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
18	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
19	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
20	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
63	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
64	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
65	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
66	G1_PP	GLOBAL	0,000000	0,000000	-1,000000

Table: Frame Loads - Gravity

Frame	LoadPat	CoordSys	MultiplierX	MultiplierY	MultiplierZ
67	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
68	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
69	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
70	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
71	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
72	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
73	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
74	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
75	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
76	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
77	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
78	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
79	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
80	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
81	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
82	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
83	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
84	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
85	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
86	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
87	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
88	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
28	G1_PP	GLOBAL	0,000000	0,000000	-1,000000
29	G1_PP	GLOBAL	0,000000	0,000000	-1,000000

Table: Frame Section Properties 01 - General, Part 1 of 5

Table: Frame Section Properties 01 - General, Part 1 of 5

SectionName	Material	Shape	Area	TorsConst	I33	I22
			m2	m4	m4	m4
DIAF	C_32/40	SD Section	0,700000	0,065143	0,028583	0,058333
SOLETTA	C_32/40	SD Section	0,600000	0,045148	0,018000	0,050000

Table: Frame Section Properties 01 - General, Part 2 of 5

Table: Frame Section Properties 01 - General, Part 2 of 5

SectionName	I23	AS2	AS3	S33	S22	Z33	Z22
	m4	m2	m2	m3	m3	m3	m3
DIAF	0,000000	0,583336	0,583336	0,081667	0,116667	0,122500	0,175000
SOLETTA	0,000000	0,500002	0,500002	0,060000	0,100000	0,090000	0,150000

Table: Frame Section Properties 01 - General, Part 3 of 5

Table: Frame Section Properties 01 - General, Part 3 of 5

SectionName	R33	R22	EccV2	ConcCol	ConcBeam	Color	TotalWt
	m	m	m				KN
DIAF	0,202073	0,288675	0,000000	No	No	Green	367,500
SOLETTA	0,173205	0,288675	0,000000	No	No	White	162,000

Table: Frame Section Properties 01 - General, Part 4 of 5

Table: Frame Section Properties 01 - General, Part 4 of 5

SectionName	TotalMass	FromFile	AMod	A2Mod	A3Mod	JMod	I2Mod
	KN-s2/m						
DIAF	37,47	No	1,000000	1,000000	1,000000	1,000000	1,000000
SOLETTA	16,52	No	1,000000	1,000000	1,000000	1,000000	1,000000

Table: Frame Section Properties 01 - General, Part 5 of 5

Table: Frame Section Properties 01 - General, Part 5 of 5

SectionName	I3Mod	MMod	WMod	GUID	Notes
DIAF	1,000000	1,000000	1,000000		Added 03/06/2014 14.00.47
SOLETTA	1,000000	1,000000	1,000000		Added 03/06/2014 13.59.45

Table: Joint Coordinates, Part 1 of 2

Table: Joint Coordinates, Part 1 of 2

Joint	CoordSys	CoordType	XorR	Y	Z	SpecialJt	GlobalX
			m	m	m		m
1	GLOBAL	Cartesian	-4,75000	0,00000	-1,80000	Yes	-4,75000
2	GLOBAL	Cartesian	-2,75000	0,00000	-1,80000	Yes	-2,75000
3	GLOBAL	Cartesian	-2,25000	0,00000	-1,80000	Yes	-2,25000
4	GLOBAL	Cartesian	-1,75000	0,00000	-1,80000	Yes	-1,75000
11	GLOBAL	Cartesian	-0,25000	0,00000	-1,80000	Yes	-0,25000
12	GLOBAL	Cartesian	0,25000	0,00000	-1,80000	Yes	0,25000
13	GLOBAL	Cartesian	0,75000	0,00000	-1,80000	Yes	0,75000
14	GLOBAL	Cartesian	1,25000	0,00000	-1,80000	Yes	1,25000
15	GLOBAL	Cartesian	4,90000	0,00000	-1,80000	Yes	4,90000
16	GLOBAL	Cartesian	-4,90000	0,00000	-1,80000	Yes	-4,90000
17	GLOBAL	Cartesian	5,40000	0,00000	-1,80000	Yes	5,40000
18	GLOBAL	Cartesian	-5,40000	0,00000	-1,80000	Yes	-5,40000
19	GLOBAL	Cartesian	2,75000	0,00000	-1,80000	Yes	2,75000
20	GLOBAL	Cartesian	3,25000	0,00000	-1,80000	Yes	3,25000
21	GLOBAL	Cartesian	3,75000	0,00000	-1,80000	Yes	3,75000
28	GLOBAL	Cartesian	-5,05000	0,00000	-1,80000	Yes	-5,05000
29	GLOBAL	Cartesian	-2,05000	0,00000	-1,80000	Yes	-2,05000
30	GLOBAL	Cartesian	0,05000	0,00000	-1,80000	Yes	0,05000
31	GLOBAL	Cartesian	0,95000	0,00000	-1,80000	Yes	0,95000
32	GLOBAL	Cartesian	3,05000	0,00000	-1,80000	Yes	3,05000
35	GLOBAL	Cartesian	-2,95000	0,00000	-1,80000	Yes	-2,95000
68	GLOBAL	Cartesian	5,40000	0,00000	-2,00000	Yes	5,40000
69	GLOBAL	Cartesian	-5,40000	0,00000	-2,00000	Yes	-5,40000
70	GLOBAL	Cartesian	5,40000	0,00000	-8,00000	Yes	5,40000
71	GLOBAL	Cartesian	-5,40000	0,00000	-8,00000	Yes	-5,40000
72	GLOBAL	Cartesian	5,40000	0,00000	-3,00000	Yes	5,40000
73	GLOBAL	Cartesian	-5,40000	0,00000	-3,00000	Yes	-5,40000
74	GLOBAL	Cartesian	5,40000	0,00000	-4,00000	Yes	5,40000
75	GLOBAL	Cartesian	-5,40000	0,00000	-4,00000	Yes	-5,40000
76	GLOBAL	Cartesian	5,40000	0,00000	-5,00000	Yes	5,40000
77	GLOBAL	Cartesian	-5,40000	0,00000	-5,00000	Yes	-5,40000

Table: Joint Coordinates, Part 1 of 2

Joint	CoordSys	CoordType	XorR	Y	Z	SpecialJt	GlobalX
			m	m	m		m
78	GLOBAL	Cartesian	5,40000	0,00000	-6,00000	Yes	5,40000
79	GLOBAL	Cartesian	-5,40000	0,00000	-6,00000	Yes	-5,40000
80	GLOBAL	Cartesian	5,40000	0,00000	-7,00000	Yes	5,40000
81	GLOBAL	Cartesian	-5,40000	0,00000	-7,00000	Yes	-5,40000
82	GLOBAL	Cartesian	5,40000	0,00000	-8,35000	Yes	5,40000
83	GLOBAL	Cartesian	-5,40000	0,00000	-8,35000	Yes	-5,40000
84	GLOBAL	Cartesian	5,40000	0,00000	-8,80000	Yes	5,40000
85	GLOBAL	Cartesian	-5,40000	0,00000	-8,80000	Yes	-5,40000
86	GLOBAL	Cartesian	5,40000	0,00000	-9,30000	Yes	5,40000
87	GLOBAL	Cartesian	-5,40000	0,00000	-9,30000	Yes	-5,40000
88	GLOBAL	Cartesian	5,40000	0,00000	-10,30000	Yes	5,40000
89	GLOBAL	Cartesian	-5,40000	0,00000	-10,30000	Yes	-5,40000
90	GLOBAL	Cartesian	5,40000	0,00000	-11,30000	Yes	5,40000
91	GLOBAL	Cartesian	-5,40000	0,00000	-11,30000	Yes	-5,40000
92	GLOBAL	Cartesian	0,00000	0,00000	-1,80000	Yes	0,00000
93	GLOBAL	Cartesian	5,40000	0,00000	-12,30000	Yes	5,40000
94	GLOBAL	Cartesian	-5,40000	0,00000	-12,30000	Yes	-5,40000

Table: Joint Coordinates, Part 2 of 2

Table: Joint Coordinates, Part 2 of 2

Joint	GlobalY	GlobalZ	GUID
	m	m	
1	0,00000	-1,80000	
2	0,00000	-1,80000	
3	0,00000	-1,80000	
4	0,00000	-1,80000	
11	0,00000	-1,80000	
12	0,00000	-1,80000	
13	0,00000	-1,80000	
14	0,00000	-1,80000	
15	0,00000	-1,80000	

Table: Joint Coordinates, Part 2 of 2

Joint	GlobalY	GlobalZ	GUID
	m	m	
16	0,00000	-1,80000	
17	0,00000	-1,80000	
18	0,00000	-1,80000	
19	0,00000	-1,80000	
20	0,00000	-1,80000	
21	0,00000	-1,80000	
28	0,00000	-1,80000	
29	0,00000	-1,80000	
30	0,00000	-1,80000	
31	0,00000	-1,80000	
32	0,00000	-1,80000	
35	0,00000	-1,80000	
68	0,00000	-2,00000	
69	0,00000	-2,00000	
70	0,00000	-8,00000	
71	0,00000	-8,00000	
72	0,00000	-3,00000	
73	0,00000	-3,00000	
74	0,00000	-4,00000	
75	0,00000	-4,00000	
76	0,00000	-5,00000	
77	0,00000	-5,00000	
78	0,00000	-6,00000	
79	0,00000	-6,00000	
80	0,00000	-7,00000	
81	0,00000	-7,00000	
82	0,00000	-8,35000	
83	0,00000	-8,35000	
84	0,00000	-8,80000	
85	0,00000	-8,80000	
86	0,00000	-9,30000	
87	0,00000	-9,30000	

Table: Joint Coordinates, Part 2 of 2

Joint	GlobalY	GlobalZ	GUID
	m	m	
88	0,00000	-10,30000	
89	0,00000	-10,30000	
90	0,00000	-11,30000	
91	0,00000	-11,30000	
92	0,00000	-1,80000	
93	0,00000	-12,30000	
94	0,00000	-12,30000	

Table: Joint Restraint Assignments

Table: Joint Restraint Assignments

Joint	U1	U2	U3	R1	R2	R3
92	Yes	Yes	No	No	No	No

Table: Joint Spring Assignments 1 - Uncoupled

Table: Joint Spring Assignments 1 - Uncoupled

Joint	CoordSys	U1	U2	U3	R1	R2	R3
		KN/m	KN/m	KN/m	KN-m/rad	KN-m/rad	KN-m/rad
86	GLOBAL	3350,00	0,00	0,00	0,0000	0,0000	0,0000
87	GLOBAL	3350,00	0,00	0,00	0,0000	0,0000	0,0000
88	GLOBAL	10050,00	0,00	0,00	0,0000	0,0000	0,0000
89	GLOBAL	10050,00	0,00	0,00	0,0000	0,0000	0,0000
90	GLOBAL	16750,00	0,00	0,00	0,0000	0,0000	0,0000
91	GLOBAL	16750,00	0,00	0,00	0,0000	0,0000	0,0000
93	GLOBAL	11725,00	0,00	35000,00	0,0000	0,0000	0,0000
94	GLOBAL	11725,00	0,00	35000,00	0,0000	0,0000	0,0000

Table: Load Case Definitions, Part 1 of 3

Table: Load Case Definitions, Part 1 of 3

Case	Type	InitialCond	ModalCase	BaseCase	DesTypeOpt	DesignType	DesActOpt
G1_PP	LinStatic	Zero			Prog Det	DEAD	Prog Det
G2_PERPOR	LinStatic	Zero			Prog Det	DEAD	Prog Det
G3_TERR	LinStatic	Zero			Prog Det	DEAD	Prog Det
Q_C1_CONC	LinStatic	Zero			Prog Det	DEAD	Prog Det
Q_C2_CONC	LinStatic	Zero			Prog Det	DEAD	Prog Det
Q_C3_CONC	LinStatic	Zero			Prog Det	DEAD	Prog Det
Q_C1_DIS	LinStatic	Zero			Prog Det	DEAD	Prog Det
Q_C2_DIS	LinStatic	Zero			Prog Det	DEAD	Prog Det
Q_C3_DIS	LinStatic	Zero			Prog Det	DEAD	Prog Det
Q_RIM_DIS	LinStatic	Zero			Prog Det	DEAD	Prog Det

Table: Load Case Definitions, Part 2 of 3

Table: Load Case Definitions, Part 2 of 3

Case	DesignAct	AutoType	RunCase	CaseStatus	GUID
G1_PP	Non-Composite	None	Yes	Finished	
G2_PERPOR	Non-Composite	None	Yes	Finished	
G3_TERR	Non-Composite	None	Yes	Finished	
Q_C1_CONC	Non-Composite	None	Yes	Finished	
Q_C2_CONC	Non-Composite	None	Yes	Finished	
Q_C3_CONC	Non-Composite	None	Yes	Finished	

Table: Load Case Definitions, Part 2 of 3

Case	DesignAct	AutoType	RunCase	CaseStatus	GUID
Q_C1_DIS	Non-Composite	None	Yes	Finished	
Q_C2_DIS	Non-Composite	None	Yes	Finished	
Q_C3_DIS	Non-Composite	None	Yes	Finished	
Q_RIM_DIS	Non-Composite	None	Yes	Finished	

Table: Load Case Definitions, Part 3 of 3

Table: Load Case Definitions, Part 3 of 3

Case	Notes
G1_PP	
G2_PERPOR	
G3_TERR	
Q_C1_CONC	
Q_C2_CONC	
Q_C3_CONC	
Q_C1_DIS	
Q_C2_DIS	
Q_C3_DIS	
Q_RIM_DIS	

Table: Material Properties 01 - General, Part 1 of 2

Table: Material Properties 01 - General, Part 1 of 2

Material	Type	SymType	TempDepend	Color	GUID
A615Gr60	Rebar	Uniaxial	No	White	
C_25/30	Concrete	Isotropic	No	Blue	
C_32/40	Concrete	Isotropic	No	Blue	

Table: Material Properties 01 - General, Part 2 of 2

Table: Material Properties 01 - General, Part 2 of 2

Material	Notes
A615Gr60	ASTM A615 Grade 60 13/02/2014 16.47.21
C_25/30	ASTM A36 added 17/11/2009 10.36.37
C_32/40	ASTM A36 added 17/11/2009 10.36.37

Table: Material Properties 03b - Concrete Data, Part 1 of 2

Table: Material Properties 03b - Concrete Data, Part 1 of 2

Material	Fc	LtWtConc	SSCurveOpt	SSHysType	SFc	SCap	FinalSlope	FAngle
	KN/m2							Degrees
C_25/30	20684,27	No	Mander	Takeda	0,002000	0,005000	-0,100000	0,000
C_32/40	20684,27	No	Mander	Takeda	0,002000	0,005000	-0,100000	0,000

Table: Material Properties 03b - Concrete Data, Part 2 of 2

Table: Material Properties 03b - Concrete Data, Part 2 of 2

Material	DAngle
	Degrees
C_25/30	0,000
C_32/40	0,000

6.6.2 Output file

Table: Base Reactions, Part 1 of 3

Table: Base Reactions, Part 1 of 3

OutputCase	CaseType	GlobalFX	GlobalFY	GlobalFZ	GlobalMX	GlobalMY	GlobalMZ	GlobalX
		KN	KN	KN	KN-m	KN-m	KN-m	m
q1_VAR TRAFF	Combination	3,949E-12	0,000	518,948	0,0000	30,3090	0,0000	0,00000
G1+G2+G3	Combination	4,476E-12	0,000	853,500	0,0000	4,512E-10	0,0000	0,00000
STR_SLU_1	Combination	1,160E-11	0,000	1901,405	0,0000	40,9172	0,0000	0,00000
STR_SLU_2	Combination	4,625E-12	0,000	853,500	0,0000	4,305E-10	0,0000	0,00000

Table: Base Reactions, Part 2 of 3

Table: Base Reactions, Part 2 of 3

OutputCase	GlobalY	GlobalZ	XCentroidFX	YCentroidFX	ZCentroidFX	XCentroidFY	YCentroidFY	ZCentroidFY
	m	m	m	m	m	m	m	m
q1_VAR TRAFF	0,00000	0,00000	0,00000	0,00000	0,00000	0,00000	0,00000	0,00000
G1+G2+G3	0,00000	0,00000	0,00000	0,00000	0,00000	0,00000	0,00000	0,00000
STR_SLU_1	0,00000	0,00000	0,00000	0,00000	0,00000	0,00000	0,00000	0,00000
STR_SLU_2	0,00000	0,00000	0,00000	0,00000	0,00000	0,00000	0,00000	0,00000

Table: Base Reactions, Part 3 of 3

Table: Base Reactions, Part 3 of 3

OutputCase	XCentroidFZ	YCentroidFZ	ZCentroidFZ
	m	m	m
q1_VAR TRAFF	-0,06062	0,00000	-12,30000
G1+G2+G3	-5,118E-13	0,00000	-12,30000
STR_SLU_1	-0,02233	0,00000	-12,30000

Table: Base Reactions, Part 3 of 3

OutputCase	XCentroidFZ	YCentroidFZ	ZCentroidFZ
	m	m	m
STR_SLU_2	-5,144E-13	0,00000	-12,30000

Table: Element Forces - Frames, Part 1 of 3

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
1	0,00000	q1_VAR TRAFF	Combination	-45,425	-262,387	0,000	0,0000	0,0000
1	0,35000	q1_VAR TRAFF	Combination	-45,425	-261,887	0,000	0,0000	0,0000
1	0,00000	G1+G2+G3	Combination	-248,936	-243,000	0,000	0,0000	0,0000
1	0,35000	G1+G2+G3	Combination	-248,936	-227,250	0,000	0,0000	0,0000
1	0,00000	STR_SLU_1	Combination	-325,979	-706,572	0,000	0,0000	0,0000
1	0,35000	STR_SLU_1	Combination	-325,979	-683,060	0,000	0,0000	0,0000
1	0,00000	STR_SLU_2	Combination	-355,938	-243,000	0,000	0,0000	0,0000
1	0,35000	STR_SLU_2	Combination	-355,938	-227,250	0,000	0,0000	0,0000
2	0,00000	q1_VAR TRAFF	Combination	-45,425	-261,887	0,000	0,0000	0,0000
2	0,15000	q1_VAR TRAFF	Combination	-45,425	-261,452	0,000	0,0000	0,0000
2	0,00000	G1+G2+G3	Combination	-248,936	-227,250	0,000	0,0000	0,0000
2	0,15000	G1+G2+G3	Combination	-248,936	-220,500	0,000	0,0000	0,0000
2	0,00000	STR_SLU_1	Combination	-325,979	-683,060	0,000	0,0000	0,0000
2	0,15000	STR_SLU_1	Combination	-325,979	-672,685	0,000	0,0000	0,0000
2	0,00000	STR_SLU_2	Combination	-355,938	-227,250	0,000	0,0000	0,0000
2	0,15000	STR_SLU_2	Combination	-355,938	-220,500	0,000	0,0000	0,0000
3	0,00000	q1_VAR TRAFF	Combination	-45,425	-261,452	0,000	0,0000	0,0000
3	0,15000	q1_VAR TRAFF	Combination	-45,425	-261,017	0,000	0,0000	0,0000
3	0,00000	G1+G2+G3	Combination	-248,936	-220,500	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
3	0,15000	G1+G2+G3	Combination	-248,936	-213,750	0,000	0,0000	0,0000
3	0,00000	STR_SLU_1	Combination	-325,979	-672,685	0,000	0,0000	0,0000
3	0,15000	STR_SLU_1	Combination	-325,979	-662,310	0,000	0,0000	0,0000
3	0,00000	STR_SLU_2	Combination	-355,938	-220,500	0,000	0,0000	0,0000
3	0,15000	STR_SLU_2	Combination	-355,938	-213,750	0,000	0,0000	0,0000
5	0,00000	q1_VAR TRAFF	Combination	-45,425	-191,503	0,000	0,0000	0,0000
5	0,50000	q1_VAR TRAFF	Combination	-45,425	-158,767	0,000	0,0000	0,0000
5	0,00000	G1+G2+G3	Combination	-248,936	-123,750	0,000	0,0000	0,0000
5	0,50000	G1+G2+G3	Combination	-248,936	-101,250	0,000	0,0000	0,0000
5	0,00000	STR_SLU_1	Combination	-325,979	-437,966	0,000	0,0000	0,0000
5	0,50000	STR_SLU_1	Combination	-325,979	-361,148	0,000	0,0000	0,0000
5	0,00000	STR_SLU_2	Combination	-355,938	-123,750	0,000	0,0000	0,0000
5	0,50000	STR_SLU_2	Combination	-355,938	-101,250	0,000	0,0000	0,0000
6	0,00000	q1_VAR TRAFF	Combination	-45,425	-158,767	0,000	0,0000	0,0000
6	0,20000	q1_VAR TRAFF	Combination	-45,425	-152,073	0,000	0,0000	0,0000
6	0,00000	G1+G2+G3	Combination	-248,936	-101,250	0,000	0,0000	0,0000
6	0,20000	G1+G2+G3	Combination	-248,936	-92,250	0,000	0,0000	0,0000
6	0,00000	STR_SLU_1	Combination	-325,979	-361,148	0,000	0,0000	0,0000
6	0,20000	STR_SLU_1	Combination	-325,979	-339,061	0,000	0,0000	0,0000
6	0,00000	STR_SLU_2	Combination	-355,938	-101,250	0,000	0,0000	0,0000
6	0,20000	STR_SLU_2	Combination	-355,938	-92,250	0,000	0,0000	0,0000
7	0,00000	q1_VAR TRAFF	Combination	-45,425	-152,073	0,000	0,0000	0,0000
7	0,30000	q1_VAR TRAFF	Combination	-45,425	-140,443	0,000	0,0000	0,0000
7	0,00000	G1+G2+G3	Combination	-248,936	-92,250	0,000	0,0000	0,0000
7	0,30000	G1+G2+G3	Combination	-248,936	-78,750	0,000	0,0000	0,0000
7	0,00000	STR_SLU_1	Combination	-325,979	-339,061	0,000	0,0000	0,0000
7	0,30000	STR_SLU_1	Combination	-325,979	-303,786	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
7	0,00000	STR_SLU_2	Combination	-355,938	-92,250	0,000	0,0000	0,0000
7	0,30000	STR_SLU_2	Combination	-355,938	-78,750	0,000	0,0000	0,0000
8	0,00000	q1_VAR TRAFF	Combination	-45,425	-140,443	0,000	0,0000	0,0000
8	0,50000	q1_VAR TRAFF	Combination	-45,425	-97,061	0,000	0,0000	0,0000
8	1,00000	q1_VAR TRAFF	Combination	-45,425	-53,678	0,000	0,0000	0,0000
8	1,50000	q1_VAR TRAFF	Combination	-45,425	-10,296	0,000	0,0000	0,0000
8	0,00000	G1+G2+G3	Combination	-248,936	-78,750	0,000	0,0000	0,0000
8	0,50000	G1+G2+G3	Combination	-248,936	-56,250	0,000	0,0000	0,0000
8	1,00000	G1+G2+G3	Combination	-248,936	-33,750	0,000	0,0000	0,0000
8	1,50000	G1+G2+G3	Combination	-248,936	-11,250	0,000	0,0000	0,0000
8	0,00000	STR_SLU_1	Combination	-325,979	-303,786	0,000	0,0000	0,0000
8	0,50000	STR_SLU_1	Combination	-325,979	-212,595	0,000	0,0000	0,0000
8	1,00000	STR_SLU_1	Combination	-325,979	-121,403	0,000	0,0000	0,0000
8	1,50000	STR_SLU_1	Combination	-325,979	-30,212	0,000	0,0000	0,0000
8	0,00000	STR_SLU_2	Combination	-355,938	-78,750	0,000	0,0000	0,0000
8	0,50000	STR_SLU_2	Combination	-355,938	-56,250	0,000	0,0000	0,0000
8	1,00000	STR_SLU_2	Combination	-355,938	-33,750	0,000	0,0000	0,0000
8	1,50000	STR_SLU_2	Combination	-355,938	-11,250	0,000	0,0000	0,0000
9	0,00000	q1_VAR TRAFF	Combination	-45,425	-10,296	0,000	0,0000	0,0000
9	0,25000	q1_VAR TRAFF	Combination	-45,425	3,395	0,000	0,0000	0,0000
9	0,00000	G1+G2+G3	Combination	-248,936	-11,250	0,000	0,0000	0,0000
9	0,25000	G1+G2+G3	Combination	-248,936	-1,455E-10	0,000	0,0000	0,0000
9	0,00000	STR_SLU_1	Combination	-325,979	-30,212	0,000	0,0000	0,0000
9	0,25000	STR_SLU_1	Combination	-325,979	4,584	0,000	0,0000	0,0000
9	0,00000	STR_SLU_2	Combination	-355,938	-11,250	0,000	0,0000	0,0000
9	0,25000	STR_SLU_2	Combination	-355,938	-1,455E-10	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
10	0,00000	q1_VAR TRAFF	Combination	-45,298	3,395	0,000	0,0000	0,0000
10	0,05000	q1_VAR TRAFF	Combination	-45,298	6,134	0,000	0,0000	0,0000
10	0,00000	G1+G2+G3	Combination	-248,936	0,000	0,000	0,0000	0,0000
10	0,05000	G1+G2+G3	Combination	-248,936	2,250	0,000	0,0000	0,0000
10	0,00000	STR_SLU_1	Combination	-325,807	4,584	0,000	0,0000	0,0000
10	0,05000	STR_SLU_1	Combination	-325,807	11,543	0,000	0,0000	0,0000
10	0,00000	STR_SLU_2	Combination	-355,938	0,000	0,000	0,0000	0,0000
10	0,05000	STR_SLU_2	Combination	-355,938	2,250	0,000	0,0000	0,0000
11	0,00000	q1_VAR TRAFF	Combination	-45,298	6,134	0,000	0,0000	0,0000
11	0,20000	q1_VAR TRAFF	Combination	-45,298	16,792	0,000	0,0000	0,0000
11	0,00000	G1+G2+G3	Combination	-248,936	2,250	0,000	0,0000	0,0000
11	0,20000	G1+G2+G3	Combination	-248,936	11,250	0,000	0,0000	0,0000
11	0,00000	STR_SLU_1	Combination	-325,807	11,543	0,000	0,0000	0,0000
11	0,20000	STR_SLU_1	Combination	-325,807	38,982	0,000	0,0000	0,0000
11	0,00000	STR_SLU_2	Combination	-355,938	2,250	0,000	0,0000	0,0000
11	0,20000	STR_SLU_2	Combination	-355,938	11,250	0,000	0,0000	0,0000
12	0,00000	q1_VAR TRAFF	Combination	-45,298	16,792	0,000	0,0000	0,0000
12	0,50000	q1_VAR TRAFF	Combination	-45,298	67,439	0,000	0,0000	0,0000
12	0,00000	G1+G2+G3	Combination	-248,936	11,250	0,000	0,0000	0,0000
12	0,50000	G1+G2+G3	Combination	-248,936	33,750	0,000	0,0000	0,0000
12	0,00000	STR_SLU_1	Combination	-325,807	38,982	0,000	0,0000	0,0000
12	0,50000	STR_SLU_1	Combination	-325,807	139,981	0,000	0,0000	0,0000
12	0,00000	STR_SLU_2	Combination	-355,938	11,250	0,000	0,0000	0,0000
12	0,50000	STR_SLU_2	Combination	-355,938	33,750	0,000	0,0000	0,0000
13	0,00000	q1_VAR TRAFF	Combination	-45,298	67,439	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
13	0,20000	q1_VAR TRAFF	Combination	-45,298	78,098	0,000	0,0000	0,0000
13	0,00000	G1+G2+G3	Combination	-248,936	33,750	0,000	0,0000	0,0000
13	0,20000	G1+G2+G3	Combination	-248,936	42,750	0,000	0,0000	0,0000
13	0,00000	STR_SLU_1	Combination	-325,807	139,981	0,000	0,0000	0,0000
13	0,20000	STR_SLU_1	Combination	-325,807	167,420	0,000	0,0000	0,0000
13	0,00000	STR_SLU_2	Combination	-355,938	33,750	0,000	0,0000	0,0000
13	0,20000	STR_SLU_2	Combination	-355,938	42,750	0,000	0,0000	0,0000
14	0,00000	q1_VAR TRAFF	Combination	-45,298	78,098	0,000	0,0000	0,0000
14	0,30000	q1_VAR TRAFF	Combination	-45,298	94,528	0,000	0,0000	0,0000
14	0,00000	G1+G2+G3	Combination	-248,936	42,750	0,000	0,0000	0,0000
14	0,30000	G1+G2+G3	Combination	-248,936	56,250	0,000	0,0000	0,0000
14	0,00000	STR_SLU_1	Combination	-325,807	167,420	0,000	0,0000	0,0000
14	0,30000	STR_SLU_1	Combination	-325,807	209,175	0,000	0,0000	0,0000
14	0,00000	STR_SLU_2	Combination	-355,938	42,750	0,000	0,0000	0,0000
14	0,30000	STR_SLU_2	Combination	-355,938	56,250	0,000	0,0000	0,0000
15	0,00000	q1_VAR TRAFF	Combination	-45,298	94,528	0,000	0,0000	0,0000
15	0,50000	q1_VAR TRAFF	Combination	-45,298	129,910	0,000	0,0000	0,0000
15	1,00000	q1_VAR TRAFF	Combination	-45,298	165,293	0,000	0,0000	0,0000
15	1,50000	q1_VAR TRAFF	Combination	-45,298	200,675	0,000	0,0000	0,0000
15	0,00000	G1+G2+G3	Combination	-248,936	56,250	0,000	0,0000	0,0000
15	0,50000	G1+G2+G3	Combination	-248,936	78,750	0,000	0,0000	0,0000
15	1,00000	G1+G2+G3	Combination	-248,936	101,250	0,000	0,0000	0,0000
15	1,50000	G1+G2+G3	Combination	-248,936	123,750	0,000	0,0000	0,0000
15	0,00000	STR_SLU_1	Combination	-325,807	209,175	0,000	0,0000	0,0000
15	0,50000	STR_SLU_1	Combination	-325,807	289,566	0,000	0,0000	0,0000
15	1,00000	STR_SLU_1	Combination	-325,807	369,958	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
15	1,50000	STR_SLU_1	Combination	-325,807	450,349	0,000	0,0000	0,0000
15	0,00000	STR_SLU_2	Combination	-355,938	56,250	0,000	0,0000	0,0000
15	0,50000	STR_SLU_2	Combination	-355,938	78,750	0,000	0,0000	0,0000
15	1,00000	STR_SLU_2	Combination	-355,938	101,250	0,000	0,0000	0,0000
15	1,50000	STR_SLU_2	Combination	-355,938	123,750	0,000	0,0000	0,0000
16	0,00000	q1_VAR TRAFF	Combination	-45,298	200,675	0,000	0,0000	0,0000
16	0,30000	q1_VAR TRAFF	Combination	-45,298	207,505	0,000	0,0000	0,0000
16	0,00000	G1+G2+G3	Combination	-248,936	123,750	0,000	0,0000	0,0000
16	0,30000	G1+G2+G3	Combination	-248,936	137,250	0,000	0,0000	0,0000
16	0,00000	STR_SLU_1	Combination	-325,807	450,349	0,000	0,0000	0,0000
16	0,30000	STR_SLU_1	Combination	-325,807	479,144	0,000	0,0000	0,0000
16	0,00000	STR_SLU_2	Combination	-355,938	123,750	0,000	0,0000	0,0000
16	0,30000	STR_SLU_2	Combination	-355,938	137,250	0,000	0,0000	0,0000
17	0,00000	q1_VAR TRAFF	Combination	-45,298	207,505	0,000	0,0000	0,0000
17	0,20000	q1_VAR TRAFF	Combination	-45,298	210,999	0,000	0,0000	0,0000
17	0,00000	G1+G2+G3	Combination	-248,936	137,250	0,000	0,0000	0,0000
17	0,20000	G1+G2+G3	Combination	-248,936	146,250	0,000	0,0000	0,0000
17	0,00000	STR_SLU_1	Combination	-325,807	479,144	0,000	0,0000	0,0000
17	0,20000	STR_SLU_1	Combination	-325,807	496,911	0,000	0,0000	0,0000
17	0,00000	STR_SLU_2	Combination	-355,938	137,250	0,000	0,0000	0,0000
17	0,20000	STR_SLU_2	Combination	-355,938	146,250	0,000	0,0000	0,0000
18	0,00000	q1_VAR TRAFF	Combination	-45,298	210,999	0,000	0,0000	0,0000
18	0,50000	q1_VAR TRAFF	Combination	-45,298	227,734	0,000	0,0000	0,0000
18	0,00000	G1+G2+G3	Combination	-248,936	146,250	0,000	0,0000	0,0000
18	0,50000	G1+G2+G3	Combination	-248,936	168,750	0,000	0,0000	0,0000
18	0,00000	STR_SLU_1	Combination	-325,807	496,911	0,000	0,0000	0,0000
18	0,50000	STR_SLU_1	Combination	-325,807	552,129	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
18	0,00000	STR_SLU_2	Combination	-355,938	146,250	0,000	0,0000	0,0000
18	0,50000	STR_SLU_2	Combination	-355,938	168,750	0,000	0,0000	0,0000
19	0,00000	q1_VAR TRAFF	Combination	-45,298	227,734	0,000	0,0000	0,0000
19	0,38333	q1_VAR TRAFF	Combination	-45,298	234,432	0,000	0,0000	0,0000
19	0,76667	q1_VAR TRAFF	Combination	-45,298	241,129	0,000	0,0000	0,0000
19	1,15000	q1_VAR TRAFF	Combination	-45,298	247,826	0,000	0,0000	0,0000
19	0,00000	G1+G2+G3	Combination	-248,936	168,750	0,000	0,0000	0,0000
19	0,38333	G1+G2+G3	Combination	-248,936	186,000	0,000	0,0000	0,0000
19	0,76667	G1+G2+G3	Combination	-248,936	203,250	0,000	0,0000	0,0000
19	1,15000	G1+G2+G3	Combination	-248,936	220,500	0,000	0,0000	0,0000
19	0,00000	STR_SLU_1	Combination	-325,807	552,129	0,000	0,0000	0,0000
19	0,38333	STR_SLU_1	Combination	-325,807	586,183	0,000	0,0000	0,0000
19	0,76667	STR_SLU_1	Combination	-325,807	620,237	0,000	0,0000	0,0000
19	1,15000	STR_SLU_1	Combination	-325,807	654,290	0,000	0,0000	0,0000
19	0,00000	STR_SLU_2	Combination	-355,938	168,750	0,000	0,0000	0,0000
19	0,38333	STR_SLU_2	Combination	-355,938	186,000	0,000	0,0000	0,0000
19	0,76667	STR_SLU_2	Combination	-355,938	203,250	0,000	0,0000	0,0000
19	1,15000	STR_SLU_2	Combination	-355,938	220,500	0,000	0,0000	0,0000
20	0,00000	q1_VAR TRAFF	Combination	-45,298	247,826	0,000	0,0000	0,0000
20	0,50000	q1_VAR TRAFF	Combination	-45,298	256,562	0,000	0,0000	0,0000
20	0,00000	G1+G2+G3	Combination	-248,936	220,500	0,000	0,0000	0,0000
20	0,50000	G1+G2+G3	Combination	-248,936	243,000	0,000	0,0000	0,0000
20	0,00000	STR_SLU_1	Combination	-325,807	654,290	0,000	0,0000	0,0000
20	0,50000	STR_SLU_1	Combination	-325,807	698,708	0,000	0,0000	0,0000
20	0,00000	STR_SLU_2	Combination	-355,938	220,500	0,000	0,0000	0,0000
20	0,50000	STR_SLU_2	Combination	-355,938	243,000	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
28	0,00000	q1_VAR TRAFF	Combination	-45,425	-261,017	0,000	0,0000	0,0000
28	0,45000	q1_VAR TRAFF	Combination	-45,425	-245,312	0,000	0,0000	0,0000
28	0,90000	q1_VAR TRAFF	Combination	-45,425	-229,607	0,000	0,0000	0,0000
28	1,35000	q1_VAR TRAFF	Combination	-45,425	-213,902	0,000	0,0000	0,0000
28	1,80000	q1_VAR TRAFF	Combination	-45,425	-198,197	0,000	0,0000	0,0000
28	0,00000	G1+G2+G3	Combination	-248,936	-213,750	0,000	0,0000	0,0000
28	0,45000	G1+G2+G3	Combination	-248,936	-193,500	0,000	0,0000	0,0000
28	0,90000	G1+G2+G3	Combination	-248,936	-173,250	0,000	0,0000	0,0000
28	1,35000	G1+G2+G3	Combination	-248,936	-153,000	0,000	0,0000	0,0000
28	1,80000	G1+G2+G3	Combination	-248,936	-132,750	0,000	0,0000	0,0000
28	0,00000	STR_SLU_1	Combination	-325,979	-662,310	0,000	0,0000	0,0000
28	0,45000	STR_SLU_1	Combination	-325,979	-611,746	0,000	0,0000	0,0000
28	0,90000	STR_SLU_1	Combination	-325,979	-561,182	0,000	0,0000	0,0000
28	1,35000	STR_SLU_1	Combination	-325,979	-510,617	0,000	0,0000	0,0000
28	1,80000	STR_SLU_1	Combination	-325,979	-460,053	0,000	0,0000	0,0000
28	0,00000	STR_SLU_2	Combination	-355,938	-213,750	0,000	0,0000	0,0000
28	0,45000	STR_SLU_2	Combination	-355,938	-193,500	0,000	0,0000	0,0000
28	0,90000	STR_SLU_2	Combination	-355,938	-173,250	0,000	0,0000	0,0000
28	1,35000	STR_SLU_2	Combination	-355,938	-153,000	0,000	0,0000	0,0000
28	1,80000	STR_SLU_2	Combination	-355,938	-132,750	0,000	0,0000	0,0000
29	0,00000	q1_VAR TRAFF	Combination	-45,425	-198,197	0,000	0,0000	0,0000
29	0,20000	q1_VAR TRAFF	Combination	-45,425	-191,503	0,000	0,0000	0,0000
29	0,00000	G1+G2+G3	Combination	-248,936	-132,750	0,000	0,0000	0,0000
29	0,20000	G1+G2+G3	Combination	-248,936	-123,750	0,000	0,0000	0,0000
29	0,00000	STR_SLU_1	Combination	-325,979	-460,053	0,000	0,0000	0,0000
29	0,20000	STR_SLU_1	Combination	-325,979	-437,966	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
29	0,00000	STR_SLU_2	Combination	-355,938	-132,750	0,000	0,0000	0,0000
29	0,20000	STR_SLU_2	Combination	-355,938	-123,750	0,000	0,0000	0,0000
63	0,00000	q1_VAR TRAFF	Combination	-262,387	-6,122	0,000	0,0000	0,0000
63	0,50000	q1_VAR TRAFF	Combination	-262,387	-6,122	0,000	0,0000	0,0000
63	1,00000	q1_VAR TRAFF	Combination	-262,387	-6,122	0,000	0,0000	0,0000
63	0,00000	G1+G2+G3	Combination	-426,750	105,720	0,000	0,0000	0,0000
63	0,50000	G1+G2+G3	Combination	-418,000	55,402	0,000	0,0000	0,0000
63	1,00000	G1+G2+G3	Combination	-409,250	5,084	0,000	0,0000	0,0000
63	0,00000	STR_SLU_1	Combination	-954,635	95,337	0,000	0,0000	0,0000
63	0,50000	STR_SLU_1	Combination	-942,822	45,019	0,000	0,0000	0,0000
63	1,00000	STR_SLU_1	Combination	-931,010	-5,299	0,000	0,0000	0,0000
63	0,00000	STR_SLU_2	Combination	-426,750	160,934	0,000	0,0000	0,0000
63	0,50000	STR_SLU_2	Combination	-418,000	85,457	0,000	0,0000	0,0000
63	1,00000	STR_SLU_2	Combination	-409,250	9,980	0,000	0,0000	0,0000
64	0,00000	q1_VAR TRAFF	Combination	-262,387	-23,362	0,000	0,0000	0,0000
64	0,50000	q1_VAR TRAFF	Combination	-262,387	-23,362	0,000	0,0000	0,0000
64	1,00000	q1_VAR TRAFF	Combination	-262,387	-23,362	0,000	0,0000	0,0000
64	0,00000	G1+G2+G3	Combination	-409,250	158,458	0,000	0,0000	0,0000
64	0,50000	G1+G2+G3	Combination	-400,500	112,405	0,000	0,0000	0,0000
64	1,00000	G1+G2+G3	Combination	-391,750	66,351	0,000	0,0000	0,0000
64	0,00000	STR_SLU_1	Combination	-931,010	118,835	0,000	0,0000	0,0000
64	0,50000	STR_SLU_1	Combination	-919,197	72,782	0,000	0,0000	0,0000
64	1,00000	STR_SLU_1	Combination	-907,385	26,728	0,000	0,0000	0,0000
64	0,00000	STR_SLU_2	Combination	-409,250	246,670	0,000	0,0000	0,0000
64	0,50000	STR_SLU_2	Combination	-400,500	177,590	0,000	0,0000	0,0000
64	1,00000	STR_SLU_2	Combination	-391,750	108,510	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
65	0,00000	q1_VAR TRAFF	Combination	-262,387	-38,732	0,000	0,0000	0,0000
65	0,50000	q1_VAR TRAFF	Combination	-262,387	-38,732	0,000	0,0000	0,0000
65	1,00000	q1_VAR TRAFF	Combination	-262,387	-38,732	0,000	0,0000	0,0000
65	0,00000	G1+G2+G3	Combination	-391,750	159,097	0,000	0,0000	0,0000
65	0,50000	G1+G2+G3	Combination	-383,000	117,307	0,000	0,0000	0,0000
65	1,00000	G1+G2+G3	Combination	-374,250	75,518	0,000	0,0000	0,0000
65	0,00000	STR_SLU_1	Combination	-907,385	93,406	0,000	0,0000	0,0000
65	0,50000	STR_SLU_1	Combination	-895,572	51,617	0,000	0,0000	0,0000
65	1,00000	STR_SLU_1	Combination	-883,760	9,827	0,000	0,0000	0,0000
65	0,00000	STR_SLU_2	Combination	-391,750	253,537	0,000	0,0000	0,0000
65	0,50000	STR_SLU_2	Combination	-383,000	190,853	0,000	0,0000	0,0000
65	1,00000	STR_SLU_2	Combination	-374,250	128,169	0,000	0,0000	0,0000
66	0,00000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
66	0,25000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
66	0,50000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
66	0,00000	G1+G2+G3	Combination	-374,250	106,062	0,000	0,0000	0,0000
66	0,25000	G1+G2+G3	Combination	-369,875	86,767	0,000	0,0000	0,0000
66	0,50000	G1+G2+G3	Combination	-365,500	67,471	0,000	0,0000	0,0000
66	0,00000	STR_SLU_1	Combination	-883,760	29,019	0,000	0,0000	0,0000
66	0,25000	STR_SLU_1	Combination	-877,854	9,723	0,000	0,0000	0,0000
66	0,50000	STR_SLU_1	Combination	-871,947	-9,572	0,000	0,0000	0,0000
66	0,00000	STR_SLU_2	Combination	-374,250	176,560	0,000	0,0000	0,0000
66	0,25000	STR_SLU_2	Combination	-369,875	147,616	0,000	0,0000	0,0000
66	0,50000	STR_SLU_2	Combination	-365,500	118,672	0,000	0,0000	0,0000
67	0,00000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
67	0,22500	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
67	0,45000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
67	0,00000	G1+G2+G3	Combination	-365,500	67,471	0,000	0,0000	0,0000
67	0,22500	G1+G2+G3	Combination	-361,563	51,016	0,000	0,0000	0,0000
67	0,45000	G1+G2+G3	Combination	-357,625	34,562	0,000	0,0000	0,0000
67	0,00000	STR_SLU_1	Combination	-871,947	-9,572	0,000	0,0000	0,0000
67	0,22500	STR_SLU_1	Combination	-866,632	-26,027	0,000	0,0000	0,0000
67	0,45000	STR_SLU_1	Combination	-861,316	-42,482	0,000	0,0000	0,0000
67	0,00000	STR_SLU_2	Combination	-365,500	118,672	0,000	0,0000	0,0000
67	0,22500	STR_SLU_2	Combination	-361,563	93,990	0,000	0,0000	0,0000
67	0,45000	STR_SLU_2	Combination	-357,625	69,308	0,000	0,0000	0,0000
68	0,00000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
68	0,17500	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
68	0,35000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
68	0,00000	G1+G2+G3	Combination	-357,625	34,562	0,000	0,0000	0,0000
68	0,17500	G1+G2+G3	Combination	-354,563	22,361	0,000	0,0000	0,0000
68	0,35000	G1+G2+G3	Combination	-351,500	10,160	0,000	0,0000	0,0000
68	0,00000	STR_SLU_1	Combination	-861,316	-42,482	0,000	0,0000	0,0000
68	0,17500	STR_SLU_1	Combination	-857,182	-54,683	0,000	0,0000	0,0000
68	0,35000	STR_SLU_1	Combination	-853,047	-66,884	0,000	0,0000	0,0000
68	0,00000	STR_SLU_2	Combination	-357,625	69,308	0,000	0,0000	0,0000
68	0,17500	STR_SLU_2	Combination	-354,563	51,007	0,000	0,0000	0,0000
68	0,35000	STR_SLU_2	Combination	-351,500	32,705	0,000	0,0000	0,0000
69	0,00000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
69	0,50000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
69	1,00000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
69	0,00000	G1+G2+G3	Combination	-351,500	10,160	0,000	0,0000	0,0000
69	0,50000	G1+G2+G3	Combination	-342,750	-21,822	0,000	0,0000	0,0000
69	1,00000	G1+G2+G3	Combination	-334,000	-53,804	0,000	0,0000	0,0000
69	0,00000	STR_SLU_1	Combination	-853,047	-66,884	0,000	0,0000	0,0000
69	0,50000	STR_SLU_1	Combination	-841,235	-98,866	0,000	0,0000	0,0000
69	1,00000	STR_SLU_1	Combination	-829,422	-130,848	0,000	0,0000	0,0000
69	0,00000	STR_SLU_2	Combination	-351,500	32,705	0,000	0,0000	0,0000
69	0,50000	STR_SLU_2	Combination	-342,750	-15,268	0,000	0,0000	0,0000
69	1,00000	STR_SLU_2	Combination	-334,000	-63,241	0,000	0,0000	0,0000
70	0,00000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
70	0,50000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
70	1,00000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
70	0,00000	G1+G2+G3	Combination	-334,000	-53,804	0,000	0,0000	0,0000
70	0,50000	G1+G2+G3	Combination	-325,250	-81,522	0,000	0,0000	0,0000
70	1,00000	G1+G2+G3	Combination	-316,500	-109,239	0,000	0,0000	0,0000
70	0,00000	STR_SLU_1	Combination	-829,422	-130,848	0,000	0,0000	0,0000
70	0,50000	STR_SLU_1	Combination	-817,610	-158,565	0,000	0,0000	0,0000
70	1,00000	STR_SLU_1	Combination	-805,797	-186,283	0,000	0,0000	0,0000
70	0,00000	STR_SLU_2	Combination	-334,000	-63,241	0,000	0,0000	0,0000
70	0,50000	STR_SLU_2	Combination	-325,250	-104,817	0,000	0,0000	0,0000
70	1,00000	STR_SLU_2	Combination	-316,500	-146,393	0,000	0,0000	0,0000
71	0,00000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
71	0,50000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
71	1,00000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
71	0,00000	G1+G2+G3	Combination	-316,500	-109,239	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
71	0,50000	G1+G2+G3	Combination	-307,750	-132,693	0,000	0,0000	0,0000
71	1,00000	G1+G2+G3	Combination	-299,000	-156,146	0,000	0,0000	0,0000
71	0,00000	STR_SLU_1	Combination	-805,797	-186,283	0,000	0,0000	0,0000
71	0,50000	STR_SLU_1	Combination	-793,985	-209,736	0,000	0,0000	0,0000
71	1,00000	STR_SLU_1	Combination	-782,172	-233,190	0,000	0,0000	0,0000
71	0,00000	STR_SLU_2	Combination	-316,500	-146,393	0,000	0,0000	0,0000
71	0,50000	STR_SLU_2	Combination	-307,750	-181,574	0,000	0,0000	0,0000
71	1,00000	STR_SLU_2	Combination	-299,000	-216,754	0,000	0,0000	0,0000
72	0,00000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
72	0,50000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
72	1,00000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
72	0,00000	G1+G2+G3	Combination	-299,000	-156,146	0,000	0,0000	0,0000
72	0,50000	G1+G2+G3	Combination	-290,250	-175,335	0,000	0,0000	0,0000
72	1,00000	G1+G2+G3	Combination	-281,500	-194,524	0,000	0,0000	0,0000
72	0,00000	STR_SLU_1	Combination	-782,172	-233,190	0,000	0,0000	0,0000
72	0,50000	STR_SLU_1	Combination	-770,360	-252,379	0,000	0,0000	0,0000
72	1,00000	STR_SLU_1	Combination	-758,547	-271,568	0,000	0,0000	0,0000
72	0,00000	STR_SLU_2	Combination	-299,000	-216,754	0,000	0,0000	0,0000
72	0,50000	STR_SLU_2	Combination	-290,250	-245,537	0,000	0,0000	0,0000
72	1,00000	STR_SLU_2	Combination	-281,500	-274,321	0,000	0,0000	0,0000
73	0,00000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
73	0,50000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
73	1,00000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
73	0,00000	G1+G2+G3	Combination	-281,500	-194,524	0,000	0,0000	0,0000
73	0,50000	G1+G2+G3	Combination	-272,750	-209,449	0,000	0,0000	0,0000
73	1,00000	G1+G2+G3	Combination	-264,000	-224,374	0,000	0,0000	0,0000
73	0,00000	STR_SLU_1	Combination	-758,547	-271,568	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
73	0,50000	STR_SLU_1	Combination	-746,735	-286,493	0,000	0,0000	0,0000
73	1,00000	STR_SLU_1	Combination	-734,922	-301,418	0,000	0,0000	0,0000
73	0,00000	STR_SLU_2	Combination	-281,500	-274,321	0,000	0,0000	0,0000
73	0,50000	STR_SLU_2	Combination	-272,750	-296,708	0,000	0,0000	0,0000
73	1,00000	STR_SLU_2	Combination	-264,000	-319,096	0,000	0,0000	0,0000
74	0,00000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
74	0,50000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
74	1,00000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
74	0,00000	G1+G2+G3	Combination	-264,000	-224,374	0,000	0,0000	0,0000
74	0,50000	G1+G2+G3	Combination	-255,250	-235,035	0,000	0,0000	0,0000
74	1,00000	G1+G2+G3	Combination	-246,500	-245,695	0,000	0,0000	0,0000
74	0,00000	STR_SLU_1	Combination	-734,922	-301,418	0,000	0,0000	0,0000
74	0,50000	STR_SLU_1	Combination	-723,110	-312,078	0,000	0,0000	0,0000
74	1,00000	STR_SLU_1	Combination	-711,297	-322,739	0,000	0,0000	0,0000
74	0,00000	STR_SLU_2	Combination	-264,000	-319,096	0,000	0,0000	0,0000
74	0,50000	STR_SLU_2	Combination	-255,250	-335,087	0,000	0,0000	0,0000
74	1,00000	STR_SLU_2	Combination	-246,500	-351,077	0,000	0,0000	0,0000
75	0,00000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
75	0,10000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
75	0,20000	q1_VAR TRAFF	Combination	-262,387	-45,425	0,000	0,0000	0,0000
75	0,00000	G1+G2+G3	Combination	-246,500	-245,695	0,000	0,0000	0,0000
75	0,10000	G1+G2+G3	Combination	-244,750	-247,316	0,000	0,0000	0,0000
75	0,20000	G1+G2+G3	Combination	-243,000	-248,936	0,000	0,0000	0,0000
75	0,00000	STR_SLU_1	Combination	-711,297	-322,739	0,000	0,0000	0,0000
75	0,10000	STR_SLU_1	Combination	-708,935	-324,359	0,000	0,0000	0,0000
75	0,20000	STR_SLU_1	Combination	-706,572	-325,979	0,000	0,0000	0,0000
75	0,00000	STR_SLU_2	Combination	-246,500	-351,077	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
75	0,10000	STR_SLU_2	Combination	-244,750	-353,508	0,000	0,0000	0,0000
75	0,20000	STR_SLU_2	Combination	-243,000	-355,938	0,000	0,0000	0,0000
76	0,00000	q1_VAR TRAFF	Combination	-256,562	6,105	0,000	0,0000	0,0000
76	0,50000	q1_VAR TRAFF	Combination	-256,562	6,105	0,000	0,0000	0,0000
76	1,00000	q1_VAR TRAFF	Combination	-256,562	6,105	0,000	0,0000	0,0000
76	0,00000	G1+G2+G3	Combination	-426,750	-105,720	0,000	0,0000	0,0000
76	0,50000	G1+G2+G3	Combination	-418,000	-55,402	0,000	0,0000	0,0000
76	1,00000	G1+G2+G3	Combination	-409,250	-5,084	0,000	0,0000	0,0000
76	0,00000	STR_SLU_1	Combination	-946,771	-95,360	0,000	0,0000	0,0000
76	0,50000	STR_SLU_1	Combination	-934,958	-45,042	0,000	0,0000	0,0000
76	1,00000	STR_SLU_1	Combination	-923,146	5,276	0,000	0,0000	0,0000
76	0,00000	STR_SLU_2	Combination	-426,750	-160,934	0,000	0,0000	0,0000
76	0,50000	STR_SLU_2	Combination	-418,000	-85,457	0,000	0,0000	0,0000
76	1,00000	STR_SLU_2	Combination	-409,250	-9,980	0,000	0,0000	0,0000
77	0,00000	q1_VAR TRAFF	Combination	-256,562	23,296	0,000	0,0000	0,0000
77	0,50000	q1_VAR TRAFF	Combination	-256,562	23,296	0,000	0,0000	0,0000
77	1,00000	q1_VAR TRAFF	Combination	-256,562	23,296	0,000	0,0000	0,0000
77	0,00000	G1+G2+G3	Combination	-409,250	-158,458	0,000	0,0000	0,0000
77	0,50000	G1+G2+G3	Combination	-400,500	-112,405	0,000	0,0000	0,0000
77	1,00000	G1+G2+G3	Combination	-391,750	-66,351	0,000	0,0000	0,0000
77	0,00000	STR_SLU_1	Combination	-923,146	-118,924	0,000	0,0000	0,0000
77	0,50000	STR_SLU_1	Combination	-911,333	-72,870	0,000	0,0000	0,0000
77	1,00000	STR_SLU_1	Combination	-899,521	-26,817	0,000	0,0000	0,0000
77	0,00000	STR_SLU_2	Combination	-409,250	-246,670	0,000	0,0000	0,0000
77	0,50000	STR_SLU_2	Combination	-400,500	-177,590	0,000	0,0000	0,0000
77	1,00000	STR_SLU_2	Combination	-391,750	-108,510	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
78	0,00000	q1_VAR TRAFF	Combination	-256,562	38,623	0,000	0,0000	0,0000
78	0,50000	q1_VAR TRAFF	Combination	-256,562	38,623	0,000	0,0000	0,0000
78	1,00000	q1_VAR TRAFF	Combination	-256,562	38,623	0,000	0,0000	0,0000
78	0,00000	G1+G2+G3	Combination	-391,750	-159,097	0,000	0,0000	0,0000
78	0,50000	G1+G2+G3	Combination	-383,000	-117,307	0,000	0,0000	0,0000
78	1,00000	G1+G2+G3	Combination	-374,250	-75,518	0,000	0,0000	0,0000
78	0,00000	STR_SLU_1	Combination	-899,521	-93,553	0,000	0,0000	0,0000
78	0,50000	STR_SLU_1	Combination	-887,708	-51,763	0,000	0,0000	0,0000
78	1,00000	STR_SLU_1	Combination	-875,896	-9,974	0,000	0,0000	0,0000
78	0,00000	STR_SLU_2	Combination	-391,750	-253,537	0,000	0,0000	0,0000
78	0,50000	STR_SLU_2	Combination	-383,000	-190,853	0,000	0,0000	0,0000
78	1,00000	STR_SLU_2	Combination	-374,250	-128,169	0,000	0,0000	0,0000
79	0,00000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
79	0,25000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
79	0,50000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
79	0,00000	G1+G2+G3	Combination	-374,250	-106,062	0,000	0,0000	0,0000
79	0,25000	G1+G2+G3	Combination	-369,875	-86,767	0,000	0,0000	0,0000
79	0,50000	G1+G2+G3	Combination	-365,500	-67,471	0,000	0,0000	0,0000
79	0,00000	STR_SLU_1	Combination	-875,896	-29,191	0,000	0,0000	0,0000
79	0,25000	STR_SLU_1	Combination	-869,989	-9,896	0,000	0,0000	0,0000
79	0,50000	STR_SLU_1	Combination	-864,083	9,400	0,000	0,0000	0,0000
79	0,00000	STR_SLU_2	Combination	-374,250	-176,560	0,000	0,0000	0,0000
79	0,25000	STR_SLU_2	Combination	-369,875	-147,616	0,000	0,0000	0,0000
79	0,50000	STR_SLU_2	Combination	-365,500	-118,672	0,000	0,0000	0,0000
80	0,00000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
80	0,22500	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
80	0,45000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
80	0,00000	G1+G2+G3	Combination	-365,500	-67,471	0,000	0,0000	0,0000
80	0,22500	G1+G2+G3	Combination	-361,563	-51,016	0,000	0,0000	0,0000
80	0,45000	G1+G2+G3	Combination	-357,625	-34,562	0,000	0,0000	0,0000
80	0,00000	STR_SLU_1	Combination	-864,083	9,400	0,000	0,0000	0,0000
80	0,22500	STR_SLU_1	Combination	-858,768	25,855	0,000	0,0000	0,0000
80	0,45000	STR_SLU_1	Combination	-853,452	42,310	0,000	0,0000	0,0000
80	0,00000	STR_SLU_2	Combination	-365,500	-118,672	0,000	0,0000	0,0000
80	0,22500	STR_SLU_2	Combination	-361,563	-93,990	0,000	0,0000	0,0000
80	0,45000	STR_SLU_2	Combination	-357,625	-69,308	0,000	0,0000	0,0000
81	0,00000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
81	0,17500	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
81	0,35000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
81	0,00000	G1+G2+G3	Combination	-357,625	-34,562	0,000	0,0000	0,0000
81	0,17500	G1+G2+G3	Combination	-354,563	-22,361	0,000	0,0000	0,0000
81	0,35000	G1+G2+G3	Combination	-351,500	-10,160	0,000	0,0000	0,0000
81	0,00000	STR_SLU_1	Combination	-853,452	42,310	0,000	0,0000	0,0000
81	0,17500	STR_SLU_1	Combination	-849,318	54,511	0,000	0,0000	0,0000
81	0,35000	STR_SLU_1	Combination	-845,183	66,712	0,000	0,0000	0,0000
81	0,00000	STR_SLU_2	Combination	-357,625	-69,308	0,000	0,0000	0,0000
81	0,17500	STR_SLU_2	Combination	-354,563	-51,007	0,000	0,0000	0,0000
81	0,35000	STR_SLU_2	Combination	-351,500	-32,705	0,000	0,0000	0,0000
82	0,00000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
82	0,50000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
82	1,00000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
82	0,00000	G1+G2+G3	Combination	-351,500	-10,160	0,000	0,0000	0,0000
82	0,50000	G1+G2+G3	Combination	-342,750	21,822	0,000	0,0000	0,0000
82	1,00000	G1+G2+G3	Combination	-334,000	53,804	0,000	0,0000	0,0000
82	0,00000	STR_SLU_1	Combination	-845,183	66,712	0,000	0,0000	0,0000
82	0,50000	STR_SLU_1	Combination	-833,371	98,694	0,000	0,0000	0,0000
82	1,00000	STR_SLU_1	Combination	-821,558	130,676	0,000	0,0000	0,0000
82	0,00000	STR_SLU_2	Combination	-351,500	-32,705	0,000	0,0000	0,0000
82	0,50000	STR_SLU_2	Combination	-342,750	15,268	0,000	0,0000	0,0000
82	1,00000	STR_SLU_2	Combination	-334,000	63,241	0,000	0,0000	0,0000
83	0,00000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
83	0,50000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
83	1,00000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
83	0,00000	G1+G2+G3	Combination	-334,000	53,804	0,000	0,0000	0,0000
83	0,50000	G1+G2+G3	Combination	-325,250	81,522	0,000	0,0000	0,0000
83	1,00000	G1+G2+G3	Combination	-316,500	109,239	0,000	0,0000	0,0000
83	0,00000	STR_SLU_1	Combination	-821,558	130,676	0,000	0,0000	0,0000
83	0,50000	STR_SLU_1	Combination	-809,746	158,393	0,000	0,0000	0,0000
83	1,00000	STR_SLU_1	Combination	-797,933	186,111	0,000	0,0000	0,0000
83	0,00000	STR_SLU_2	Combination	-334,000	63,241	0,000	0,0000	0,0000
83	0,50000	STR_SLU_2	Combination	-325,250	104,817	0,000	0,0000	0,0000
83	1,00000	STR_SLU_2	Combination	-316,500	146,393	0,000	0,0000	0,0000
84	0,00000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
84	0,50000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
84	1,00000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
84	0,00000	G1+G2+G3	Combination	-316,500	109,239	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
84	0,50000	G1+G2+G3	Combination	-307,750	132,693	0,000	0,0000	0,0000
84	1,00000	G1+G2+G3	Combination	-299,000	156,146	0,000	0,0000	0,0000
84	0,00000	STR_SLU_1	Combination	-797,933	186,111	0,000	0,0000	0,0000
84	0,50000	STR_SLU_1	Combination	-786,121	209,564	0,000	0,0000	0,0000
84	1,00000	STR_SLU_1	Combination	-774,308	233,018	0,000	0,0000	0,0000
84	0,00000	STR_SLU_2	Combination	-316,500	146,393	0,000	0,0000	0,0000
84	0,50000	STR_SLU_2	Combination	-307,750	181,574	0,000	0,0000	0,0000
84	1,00000	STR_SLU_2	Combination	-299,000	216,754	0,000	0,0000	0,0000
85	0,00000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
85	0,50000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
85	1,00000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
85	0,00000	G1+G2+G3	Combination	-299,000	156,146	0,000	0,0000	0,0000
85	0,50000	G1+G2+G3	Combination	-290,250	175,335	0,000	0,0000	0,0000
85	1,00000	G1+G2+G3	Combination	-281,500	194,524	0,000	0,0000	0,0000
85	0,00000	STR_SLU_1	Combination	-774,308	233,018	0,000	0,0000	0,0000
85	0,50000	STR_SLU_1	Combination	-762,496	252,207	0,000	0,0000	0,0000
85	1,00000	STR_SLU_1	Combination	-750,683	271,396	0,000	0,0000	0,0000
85	0,00000	STR_SLU_2	Combination	-299,000	216,754	0,000	0,0000	0,0000
85	0,50000	STR_SLU_2	Combination	-290,250	245,537	0,000	0,0000	0,0000
85	1,00000	STR_SLU_2	Combination	-281,500	274,321	0,000	0,0000	0,0000
86	0,00000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
86	0,50000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
86	1,00000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
86	0,00000	G1+G2+G3	Combination	-281,500	194,524	0,000	0,0000	0,0000
86	0,50000	G1+G2+G3	Combination	-272,750	209,449	0,000	0,0000	0,0000
86	1,00000	G1+G2+G3	Combination	-264,000	224,374	0,000	0,0000	0,0000
86	0,00000	STR_SLU_1	Combination	-750,683	271,396	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
86	0,50000	STR_SLU_1	Combination	-738,871	286,321	0,000	0,0000	0,0000
86	1,00000	STR_SLU_1	Combination	-727,058	301,246	0,000	0,0000	0,0000
86	0,00000	STR_SLU_2	Combination	-281,500	274,321	0,000	0,0000	0,0000
86	0,50000	STR_SLU_2	Combination	-272,750	296,708	0,000	0,0000	0,0000
86	1,00000	STR_SLU_2	Combination	-264,000	319,096	0,000	0,0000	0,0000
87	0,00000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
87	0,50000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
87	1,00000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
87	0,00000	G1+G2+G3	Combination	-264,000	224,374	0,000	0,0000	0,0000
87	0,50000	G1+G2+G3	Combination	-255,250	235,035	0,000	0,0000	0,0000
87	1,00000	G1+G2+G3	Combination	-246,500	245,695	0,000	0,0000	0,0000
87	0,00000	STR_SLU_1	Combination	-727,058	301,246	0,000	0,0000	0,0000
87	0,50000	STR_SLU_1	Combination	-715,246	311,906	0,000	0,0000	0,0000
87	1,00000	STR_SLU_1	Combination	-703,433	322,567	0,000	0,0000	0,0000
87	0,00000	STR_SLU_2	Combination	-264,000	319,096	0,000	0,0000	0,0000
87	0,50000	STR_SLU_2	Combination	-255,250	335,087	0,000	0,0000	0,0000
87	1,00000	STR_SLU_2	Combination	-246,500	351,077	0,000	0,0000	0,0000
88	0,00000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
88	0,10000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
88	0,20000	q1_VAR TRAFF	Combination	-256,562	45,298	0,000	0,0000	0,0000
88	0,00000	G1+G2+G3	Combination	-246,500	245,695	0,000	0,0000	0,0000
88	0,10000	G1+G2+G3	Combination	-244,750	247,316	0,000	0,0000	0,0000
88	0,20000	G1+G2+G3	Combination	-243,000	248,936	0,000	0,0000	0,0000
88	0,00000	STR_SLU_1	Combination	-703,433	322,567	0,000	0,0000	0,0000
88	0,10000	STR_SLU_1	Combination	-701,071	324,187	0,000	0,0000	0,0000
88	0,20000	STR_SLU_1	Combination	-698,708	325,807	0,000	0,0000	0,0000
88	0,00000	STR_SLU_2	Combination	-246,500	351,077	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 1 of 3

Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2
	m			KN	KN	KN	KN-m	KN-m
88	0,10000	STR_SLU_2	Combination	-244,750	353,508	0,000	0,0000	0,0000
88	0,20000	STR_SLU_2	Combination	-243,000	355,938	0,000	0,0000	0,0000

Table: Element Forces - Frames, Part 2 of 3

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
1	0,00000	q1_VAR TRAFF	-408,9036	6739,35	3	0,300000	-0,500000	-6890,77
1	0,35000	q1_VAR TRAFF	-317,1557	5210,22	3	0,300000	-0,500000	-5361,64
1	0,00000	G1+G2+G3	-546,0395	8685,76	3	0,300000	-0,500000	-9515,55
1	0,35000	G1+G2+G3	-463,7458	7314,20	3	0,300000	-0,500000	-8143,99
1	0,00000	STR_SLU_1	-1239,5603	20116,04	3	0,300000	-0,500000	-21202,64
1	0,35000	STR_SLU_1	-996,3747	16062,95	3	0,300000	-0,500000	-17149,54
1	0,00000	STR_SLU_2	-661,8361	10437,37	3	0,300000	-0,500000	-11623,83
1	0,35000	STR_SLU_2	-579,5424	9065,81	3	0,300000	-0,500000	-10252,27
2	0,00000	q1_VAR TRAFF	-317,1557	5210,22	3	0,300000	-0,500000	-5361,64
2	0,15000	q1_VAR TRAFF	-277,9053	4556,05	3	0,300000	-0,500000	-4707,46
2	0,00000	G1+G2+G3	-463,7458	7314,20	3	0,300000	-0,500000	-8143,99
2	0,15000	G1+G2+G3	-430,1645	6754,51	3	0,300000	-0,500000	-7584,30
2	0,00000	STR_SLU_1	-996,3747	16062,95	3	0,300000	-0,500000	-17149,54
2	0,15000	STR_SLU_1	-894,6938	14368,26	3	0,300000	-0,500000	-15454,86
2	0,00000	STR_SLU_2	-579,5424	9065,81	3	0,300000	-0,500000	-10252,27
2	0,15000	STR_SLU_2	-545,9611	8506,12	3	0,300000	-0,500000	-9692,58
3	0,00000	q1_VAR TRAFF	-277,9053	4556,05	3	0,300000	-0,500000	-4707,46
3	0,15000	q1_VAR TRAFF	-238,7202	3902,96	3	0,300000	-0,500000	-4054,38
3	0,00000	G1+G2+G3	-430,1645	6754,51	3	0,300000	-0,500000	-7584,30

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
3	0,15000	G1+G2+G3	-397,5958	6211,70	3	0,300000	-0,500000	-7041,49
3	0,00000	STR_SLU_1	-894,6938	14368,26	3	0,300000	-0,500000	-15454,86
3	0,15000	STR_SLU_1	-794,5692	12699,52	3	0,300000	-0,500000	-13786,12
3	0,00000	STR_SLU_2	-545,9611	8506,12	3	0,300000	-0,500000	-9692,58
3	0,15000	STR_SLU_2	-513,3924	7963,31	3	0,300000	-0,500000	-9149,77
5	0,00000	q1_VAR TRAFF	213,5418	3483,32	1	-0,300000	-0,500000	-3634,74
5	0,50000	q1_VAR TRAFF	301,1092	4942,78	1	-0,300000	-0,500000	-5094,20
5	0,00000	G1+G2+G3	-60,0958	586,70	3	0,300000	-0,500000	-1416,49
5	0,50000	G1+G2+G3	-3,8458	-350,80	3	0,300000	-0,500000	-478,99
5	0,00000	STR_SLU_1	305,3595	4546,03	1	-0,300000	-0,500000	-5632,62
5	0,50000	STR_SLU_1	505,1380	7875,67	1	-0,300000	-0,500000	-8962,27
5	0,00000	STR_SLU_2	-175,8924	2338,31	3	0,300000	-0,500000	-3524,77
5	0,50000	STR_SLU_2	-119,6424	1400,81	3	0,300000	-0,500000	-2587,27
6	0,00000	q1_VAR TRAFF	301,1092	4942,78	1	-0,300000	-0,500000	-5094,20
6	0,20000	q1_VAR TRAFF	332,1932	5460,85	1	-0,300000	-0,500000	-5612,26
6	0,00000	G1+G2+G3	-3,8458	-350,80	3	0,300000	-0,500000	-478,99
6	0,20000	G1+G2+G3	15,5042	-156,49	1	-0,300000	-0,500000	-673,30
6	0,00000	STR_SLU_1	505,1380	7875,67	1	-0,300000	-0,500000	-8962,27
6	0,20000	STR_SLU_1	575,1589	9042,68	1	-0,300000	-0,500000	-10129,28
6	0,00000	STR_SLU_2	-119,6424	1400,81	3	0,300000	-0,500000	-2587,27
6	0,20000	STR_SLU_2	-100,2924	1078,31	3	0,300000	-0,500000	-2264,77
7	0,00000	q1_VAR TRAFF	332,1932	5460,85	1	-0,300000	-0,500000	-5612,26
7	0,30000	q1_VAR TRAFF	376,0707	6192,14	1	-0,300000	-0,500000	-6343,55
7	0,00000	G1+G2+G3	15,5042	-156,49	1	-0,300000	-0,500000	-673,30
7	0,30000	G1+G2+G3	41,1542	271,01	1	-0,300000	-0,500000	-1100,80
7	0,00000	STR_SLU_1	575,1589	9042,68	1	-0,300000	-0,500000	-10129,28
7	0,30000	STR_SLU_1	671,5859	10649,80	1	-0,300000	-0,500000	-11736,40

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
7	0,00000	STR_SLU_2	-100,2924	1078,31	3	0,300000	-0,500000	-2264,77
7	0,30000	STR_SLU_2	-74,6424	650,81	3	0,300000	-0,500000	-1837,27
8	0,00000	q1_VAR TRAFF	376,0707	6192,14	1	-0,300000	-0,500000	-6343,55
8	0,50000	q1_VAR TRAFF	435,4467	7181,74	1	-0,300000	-0,500000	-7333,15
8	1,00000	q1_VAR TRAFF	473,1315	7809,82	1	-0,300000	-0,500000	-7961,23
8	1,50000	q1_VAR TRAFF	489,1250	8076,38	1	-0,300000	-0,500000	-8227,79
8	0,00000	G1+G2+G3	41,1542	271,01	1	-0,300000	-0,500000	-1100,80
8	0,50000	G1+G2+G3	74,9042	833,51	1	-0,300000	-0,500000	-1663,30
8	1,00000	G1+G2+G3	97,4042	1208,51	1	-0,300000	-0,500000	-2038,30
8	1,50000	G1+G2+G3	108,6542	1396,01	1	-0,300000	-0,500000	-2225,80
8	0,00000	STR_SLU_1	671,5859	10649,80	1	-0,300000	-0,500000	-11736,40
8	0,50000	STR_SLU_1	800,6811	12801,39	1	-0,300000	-0,500000	-13887,98
8	1,00000	STR_SLU_1	884,1806	14193,04	1	-0,300000	-0,500000	-15279,64
8	1,50000	STR_SLU_1	922,0844	14824,77	1	-0,300000	-0,500000	-15911,37
8	0,00000	STR_SLU_2	-74,6424	650,81	3	0,300000	-0,500000	-1837,27
8	0,50000	STR_SLU_2	-40,8924	88,31	3	0,300000	-0,500000	-1274,77
8	1,00000	STR_SLU_2	-18,3924	-286,69	3	0,300000	-0,500000	-899,77
8	1,50000	STR_SLU_2	-7,1424	-474,19	3	0,300000	-0,500000	-712,27
9	0,00000	q1_VAR TRAFF	489,1250	8076,38	1	-0,300000	-0,500000	-8227,79
9	0,25000	q1_VAR TRAFF	489,9876	8090,75	1	-0,300000	-0,500000	-8242,17
9	0,00000	G1+G2+G3	108,6542	1396,01	1	-0,300000	-0,500000	-2225,80
9	0,25000	G1+G2+G3	110,0605	1419,45	1	-0,300000	-0,500000	-2249,24
9	0,00000	STR_SLU_1	922,0844	14824,77	1	-0,300000	-0,500000	-15911,37
9	0,25000	STR_SLU_1	925,2879	14878,17	1	-0,300000	-0,500000	-15964,76
9	0,00000	STR_SLU_2	-7,1424	-474,19	3	0,300000	-0,500000	-712,27
9	0,25000	STR_SLU_2	-5,7361	-497,63	3	0,300000	-0,500000	-688,83

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
10	0,00000	q1_VAR TRAFF	489,9876	8090,96	1	-0,300000	-0,500000	-8241,96
10	0,05000	q1_VAR TRAFF	489,7494	8086,99	1	-0,300000	-0,500000	-8237,99
10	0,00000	G1+G2+G3	110,0605	1419,45	1	-0,300000	-0,500000	-2249,24
10	0,05000	G1+G2+G3	110,0042	1418,51	1	-0,300000	-0,500000	-2248,30
10	0,00000	STR_SLU_1	925,2879	14878,45	1	-0,300000	-0,500000	-15964,48
10	0,05000	STR_SLU_1	924,8847	14871,73	1	-0,300000	-0,500000	-15957,76
10	0,00000	STR_SLU_2	-5,7361	-497,63	3	0,300000	-0,500000	-688,83
10	0,05000	STR_SLU_2	-5,7924	-496,69	3	0,300000	-0,500000	-689,77
11	0,00000	q1_VAR TRAFF	489,7494	8086,99	1	-0,300000	-0,500000	-8237,99
11	0,20000	q1_VAR TRAFF	487,4567	8048,78	1	-0,300000	-0,500000	-8199,78
11	0,00000	G1+G2+G3	110,0042	1418,51	1	-0,300000	-0,500000	-2248,30
11	0,20000	G1+G2+G3	108,6542	1396,01	1	-0,300000	-0,500000	-2225,80
11	0,00000	STR_SLU_1	924,8847	14871,73	1	-0,300000	-0,500000	-15957,76
11	0,20000	STR_SLU_1	919,8322	14787,52	1	-0,300000	-0,500000	-15873,55
11	0,00000	STR_SLU_2	-5,7924	-496,69	3	0,300000	-0,500000	-689,77
11	0,20000	STR_SLU_2	-7,1424	-474,19	3	0,300000	-0,500000	-712,27
12	0,00000	q1_VAR TRAFF	487,4567	8048,78	1	-0,300000	-0,500000	-8199,78
12	0,50000	q1_VAR TRAFF	466,3988	7697,82	1	-0,300000	-0,500000	-7848,81
12	0,00000	G1+G2+G3	108,6542	1396,01	1	-0,300000	-0,500000	-2225,80
12	0,50000	G1+G2+G3	97,4042	1208,51	1	-0,300000	-0,500000	-2038,30
12	0,00000	STR_SLU_1	919,8322	14787,52	1	-0,300000	-0,500000	-15873,55
12	0,50000	STR_SLU_1	875,0914	14041,84	1	-0,300000	-0,500000	-15127,87
12	0,00000	STR_SLU_2	-7,1424	-474,19	3	0,300000	-0,500000	-712,27
12	0,50000	STR_SLU_2	-18,3924	-286,69	3	0,300000	-0,500000	-899,77
13	0,00000	q1_VAR TRAFF	466,3988	7697,82	1	-0,300000	-0,500000	-7848,81

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
13	0,20000	q1_VAR TRAFF	451,8450	7455,25	1	-0,300000	-0,500000	-7606,25
13	0,00000	G1+G2+G3	97,4042	1208,51	1	-0,300000	-0,500000	-2038,30
13	0,20000	G1+G2+G3	89,7542	1081,01	1	-0,300000	-0,500000	-1910,80
13	0,00000	STR_SLU_1	875,0914	14041,84	1	-0,300000	-0,500000	-15127,87
13	0,20000	STR_SLU_1	844,3513	13529,51	1	-0,300000	-0,500000	-14615,53
13	0,00000	STR_SLU_2	-18,3924	-286,69	3	0,300000	-0,500000	-899,77
13	0,20000	STR_SLU_2	-26,0424	-159,19	3	0,300000	-0,500000	-1027,27
14	0,00000	q1_VAR TRAFF	451,8450	7455,25	1	-0,300000	-0,500000	-7606,25
14	0,30000	q1_VAR TRAFF	425,9511	7023,69	1	-0,300000	-0,500000	-7174,68
14	0,00000	G1+G2+G3	89,7542	1081,01	1	-0,300000	-0,500000	-1910,80
14	0,30000	G1+G2+G3	74,9042	833,51	1	-0,300000	-0,500000	-1663,30
14	0,00000	STR_SLU_1	844,3513	13529,51	1	-0,300000	-0,500000	-14615,53
14	0,30000	STR_SLU_1	787,8620	12588,02	1	-0,300000	-0,500000	-13674,05
14	0,00000	STR_SLU_2	-26,0424	-159,19	3	0,300000	-0,500000	-1027,27
14	0,30000	STR_SLU_2	-40,8924	88,31	3	0,300000	-0,500000	-1274,77
15	0,00000	q1_VAR TRAFF	425,9511	7023,69	1	-0,300000	-0,500000	-7174,68
15	0,50000	q1_VAR TRAFF	369,8416	6088,53	1	-0,300000	-0,500000	-6239,52
15	1,00000	q1_VAR TRAFF	296,0408	4858,52	1	-0,300000	-0,500000	-5009,51
15	1,50000	q1_VAR TRAFF	204,5488	3333,65	1	-0,300000	-0,500000	-3484,64
15	0,00000	G1+G2+G3	74,9042	833,51	1	-0,300000	-0,500000	-1663,30
15	0,50000	G1+G2+G3	41,1542	271,01	1	-0,300000	-0,500000	-1100,80
15	1,00000	G1+G2+G3	-3,8458	-350,80	3	0,300000	-0,500000	-478,99
15	1,50000	G1+G2+G3	-60,0958	586,70	3	0,300000	-0,500000	-1416,49
15	0,00000	STR_SLU_1	787,8620	12588,02	1	-0,300000	-0,500000	-13674,05
15	0,50000	STR_SLU_1	663,1767	10509,93	1	-0,300000	-0,500000	-11595,96
15	1,00000	STR_SLU_1	498,2957	7761,92	1	-0,300000	-0,500000	-8847,94

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
15	1,50000	STR_SLU_1	293,2190	4343,97	1	-0,300000	-0,500000	-5430,00
15	0,00000	STR_SLU_2	-40,8924	88,31	3	0,300000	-0,500000	-1274,77
15	0,50000	STR_SLU_2	-74,6424	650,81	3	0,300000	-0,500000	-1837,27
15	1,00000	STR_SLU_2	-119,6424	1400,81	3	0,300000	-0,500000	-2587,27
15	1,50000	STR_SLU_2	-175,8924	2338,31	3	0,300000	-0,500000	-3524,77
16	0,00000	q1_VAR TRAFF	204,5488	3333,65	1	-0,300000	-0,500000	-3484,64
16	0,30000	q1_VAR TRAFF	143,3218	2313,20	1	-0,300000	-0,500000	-2464,19
16	0,00000	G1+G2+G3	-60,0958	586,70	3	0,300000	-0,500000	-1416,49
16	0,30000	G1+G2+G3	-99,2458	1239,20	3	0,300000	-0,500000	-2068,99
16	0,00000	STR_SLU_1	293,2190	4343,97	1	-0,300000	-0,500000	-5430,00
16	0,30000	STR_SLU_1	153,7950	2020,24	1	-0,300000	-0,500000	-3106,26
16	0,00000	STR_SLU_2	-175,8924	2338,31	3	0,300000	-0,500000	-3524,77
16	0,30000	STR_SLU_2	-215,0424	2990,81	3	0,300000	-0,500000	-4177,27
17	0,00000	q1_VAR TRAFF	143,3218	2313,20	1	-0,300000	-0,500000	-2464,19
17	0,20000	q1_VAR TRAFF	101,4714	1615,69	1	-0,300000	-0,500000	-1766,69
17	0,00000	G1+G2+G3	-99,2458	1239,20	3	0,300000	-0,500000	-2068,99
17	0,20000	G1+G2+G3	-127,5958	1711,70	3	0,300000	-0,500000	-2541,49
17	0,00000	STR_SLU_1	153,7950	2020,24	1	-0,300000	-0,500000	-3106,26
17	0,20000	STR_SLU_1	56,1895	393,48	1	-0,300000	-0,500000	-1479,50
17	0,00000	STR_SLU_2	-215,0424	2990,81	3	0,300000	-0,500000	-4177,27
17	0,20000	STR_SLU_2	-243,3924	3463,31	3	0,300000	-0,500000	-4649,77
18	0,00000	q1_VAR TRAFF	101,4714	1615,69	1	-0,300000	-0,500000	-1766,69
18	0,50000	q1_VAR TRAFF	-8,2119	61,37	3	0,300000	-0,500000	-212,36
18	0,00000	G1+G2+G3	-127,5958	1711,70	3	0,300000	-0,500000	-2541,49
18	0,50000	G1+G2+G3	-206,3458	3024,20	3	0,300000	-0,500000	-3853,99
18	0,00000	STR_SLU_1	56,1895	393,48	1	-0,300000	-0,500000	-1479,50
18	0,50000	STR_SLU_1	-206,0705	2891,50	3	0,300000	-0,500000	-3977,52

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
18	0,00000	STR_SLU_2	-243,3924	3463,31	3	0,300000	-0,500000	-4649,77
18	0,50000	STR_SLU_2	-322,1424	4775,81	3	0,300000	-0,500000	-5962,27
19	0,00000	q1_VAR TRAFF	-8,2119	61,37	3	0,300000	-0,500000	-212,36
19	0,38333	q1_VAR TRAFF	-96,7938	1537,73	3	0,300000	-0,500000	-1688,73
19	0,76667	q1_VAR TRAFF	-187,9429	3056,88	3	0,300000	-0,500000	-3207,88
19	1,15000	q1_VAR TRAFF	-281,6592	4618,82	3	0,300000	-0,500000	-4769,82
19	0,00000	G1+G2+G3	-206,3458	3024,20	3	0,300000	-0,500000	-3853,99
19	0,38333	G1+G2+G3	-274,3395	4157,43	3	0,300000	-0,500000	-4987,22
19	0,76667	G1+G2+G3	-348,9458	5400,87	3	0,300000	-0,500000	-6230,66
19	1,15000	G1+G2+G3	-430,1645	6754,51	3	0,300000	-0,500000	-7584,30
19	0,00000	STR_SLU_1	-206,0705	2891,50	3	0,300000	-0,500000	-3977,52
19	0,38333	STR_SLU_1	-424,2469	6527,77	3	0,300000	-0,500000	-7613,79
19	0,76667	STR_SLU_1	-655,4773	10381,61	3	0,300000	-0,500000	-11467,63
19	1,15000	STR_SLU_1	-899,7616	14453,01	3	0,300000	-0,500000	-15539,04
19	0,00000	STR_SLU_2	-322,1424	4775,81	3	0,300000	-0,500000	-5962,27
19	0,38333	STR_SLU_2	-390,1361	5909,04	3	0,300000	-0,500000	-7095,50
19	0,76667	STR_SLU_2	-464,7424	7152,48	3	0,300000	-0,500000	-8338,94
19	1,15000	STR_SLU_2	-545,9611	8506,12	3	0,300000	-0,500000	-9692,58
20	0,00000	q1_VAR TRAFF	-281,6592	4618,82	3	0,300000	-0,500000	-4769,82
20	0,50000	q1_VAR TRAFF	-407,7562	6720,44	3	0,300000	-0,500000	-6871,43
20	0,00000	G1+G2+G3	-430,1645	6754,51	3	0,300000	-0,500000	-7584,30
20	0,50000	G1+G2+G3	-546,0395	8685,76	3	0,300000	-0,500000	-9515,55
20	0,00000	STR_SLU_1	-899,7616	14453,01	3	0,300000	-0,500000	-15539,04
20	0,50000	STR_SLU_1	-1238,0112	20090,51	3	0,300000	-0,500000	-21176,53
20	0,00000	STR_SLU_2	-545,9611	8506,12	3	0,300000	-0,500000	-9692,58
20	0,50000	STR_SLU_2	-661,8361	10437,37	3	0,300000	-0,500000	-11623,83

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
28	0,00000	q1_VAR TRAFF	-238,7202	3902,96	3	0,300000	-0,500000	-4054,38
28	0,45000	q1_VAR TRAFF	-124,7963	2004,23	3	0,300000	-0,500000	-2155,65
28	0,90000	q1_VAR TRAFF	-17,9396	223,29	3	0,300000	-0,500000	-374,70
28	1,35000	q1_VAR TRAFF	81,8498	1288,45	1	-0,300000	-0,500000	-1439,87
28	1,80000	q1_VAR TRAFF	174,5719	2833,82	1	-0,300000	-0,500000	-2985,24
28	0,00000	G1+G2+G3	-397,5958	6211,70	3	0,300000	-0,500000	-7041,49
28	0,45000	G1+G2+G3	-305,9645	4684,51	3	0,300000	-0,500000	-5514,30
28	0,90000	G1+G2+G3	-223,4458	3309,20	3	0,300000	-0,500000	-4138,99
28	1,35000	G1+G2+G3	-150,0395	2085,76	3	0,300000	-0,500000	-2915,55
28	1,80000	G1+G2+G3	-85,7458	1014,20	3	0,300000	-0,500000	-1843,99
28	0,00000	STR_SLU_1	-794,5692	12699,52	3	0,300000	-0,500000	-13786,12
28	0,45000	STR_SLU_1	-507,9066	7921,81	3	0,300000	-0,500000	-9008,41
28	0,90000	STR_SLU_1	-243,9980	3523,33	3	0,300000	-0,500000	-4609,93
28	1,35000	STR_SLU_1	-2,8432	-495,91	3	0,300000	-0,500000	-590,69
28	1,80000	STR_SLU_1	215,5576	3049,33	1	-0,300000	-0,500000	-4135,93
28	0,00000	STR_SLU_2	-513,3924	7963,31	3	0,300000	-0,500000	-9149,77
28	0,45000	STR_SLU_2	-421,7611	6436,12	3	0,300000	-0,500000	-7622,58
28	0,90000	STR_SLU_2	-339,2424	5060,81	3	0,300000	-0,500000	-6247,27
28	1,35000	STR_SLU_2	-265,8361	3837,37	3	0,300000	-0,500000	-5023,83
28	1,80000	STR_SLU_2	-201,5424	2765,81	3	0,300000	-0,500000	-3952,27
29	0,00000	q1_VAR TRAFF	174,5719	2833,82	1	-0,300000	-0,500000	-2985,24
29	0,20000	q1_VAR TRAFF	213,5418	3483,32	1	-0,300000	-0,500000	-3634,74
29	0,00000	G1+G2+G3	-85,7458	1014,20	3	0,300000	-0,500000	-1843,99
29	0,20000	G1+G2+G3	-60,0958	586,70	3	0,300000	-0,500000	-1416,49
29	0,00000	STR_SLU_1	215,5576	3049,33	1	-0,300000	-0,500000	-4135,93
29	0,20000	STR_SLU_1	305,3595	4546,03	1	-0,300000	-0,500000	-5632,62

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
29	0,00000	STR_SLU_2	-201,5424	2765,81	3	0,300000	-0,500000	-3952,27
29	0,20000	STR_SLU_2	-175,8924	2338,31	3	0,300000	-0,500000	-3524,77
63	0,00000	q1_VAR TRAFF	-3,126E-13	-374,84	3	0,350000	-0,500000	-374,84
63	0,50000	q1_VAR TRAFF	3,0609	-337,36	1	-0,350000	-0,500000	-412,32
63	1,00000	q1_VAR TRAFF	6,1219	-299,88	1	-0,350000	-0,500000	-449,80
63	0,00000	G1+G2+G3	3,638E-12	-609,64	1	-0,350000	-0,500000	-609,64
63	0,50000	G1+G2+G3	-40,2805	-103,91	3	0,350000	-0,500000	-1090,37
63	1,00000	G1+G2+G3	-55,4021	93,75	3	0,350000	-0,500000	-1263,04
63	0,00000	STR_SLU_1	3,216E-12	-1363,76	1	-0,350000	-0,500000	-1363,76
63	0,50000	STR_SLU_1	-35,0890	-917,23	3	0,350000	-0,500000	-1776,55
63	1,00000	STR_SLU_1	-45,0191	-778,76	3	0,350000	-0,500000	-1881,27
63	0,00000	STR_SLU_2	5,457E-12	-609,64	1	-0,350000	-0,500000	-609,64
63	0,50000	STR_SLU_2	-61,5977	157,12	3	0,350000	-0,500000	-1351,40
63	1,00000	STR_SLU_2	-85,4570	461,77	3	0,350000	-0,500000	-1631,05
64	0,00000	q1_VAR TRAFF	6,1219	-299,88	1	-0,350000	-0,500000	-449,80
64	0,50000	q1_VAR TRAFF	17,8028	-156,84	1	-0,350000	-0,500000	-592,83
64	1,00000	q1_VAR TRAFF	29,4838	-13,81	1	-0,350000	-0,500000	-735,86
64	0,00000	G1+G2+G3	-55,4021	93,75	3	0,350000	-0,500000	-1263,04
64	0,50000	G1+G2+G3	-123,1178	935,42	3	0,350000	-0,500000	-2079,71
64	1,00000	G1+G2+G3	-167,8069	1495,14	3	0,350000	-0,500000	-2614,42
64	0,00000	STR_SLU_1	-45,0191	-778,76	3	0,350000	-0,500000	-1881,27
64	0,50000	STR_SLU_1	-92,9234	-175,30	3	0,350000	-0,500000	-2450,98
64	1,00000	STR_SLU_1	-117,8009	146,20	3	0,350000	-0,500000	-2738,72
64	0,00000	STR_SLU_2	-85,4570	461,77	3	0,350000	-0,500000	-1631,05
64	0,50000	STR_SLU_2	-191,5219	1773,02	3	0,350000	-0,500000	-2917,31
64	1,00000	STR_SLU_2	-263,0468	2661,34	3	0,350000	-0,500000	-3780,62

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
65	0,00000	q1_VAR TRAFF	29,4838	-13,81	1	-0,350000	-0,500000	-735,86
65	0,50000	q1_VAR TRAFF	48,8495	223,32	1	-0,350000	-0,500000	-973,00
65	1,00000	q1_VAR TRAFF	68,2153	460,45	1	-0,350000	-0,500000	-1210,13
65	0,00000	G1+G2+G3	-167,8069	1495,14	3	0,350000	-0,500000	-2614,42
65	0,50000	G1+G2+G3	-236,9079	2353,77	3	0,350000	-0,500000	-3448,06
65	1,00000	G1+G2+G3	-285,1141	2956,55	3	0,350000	-0,500000	-4025,84
65	0,00000	STR_SLU_1	-117,8009	146,20	3	0,350000	-0,500000	-2738,72
65	0,50000	STR_SLU_1	-154,0566	607,02	3	0,350000	-0,500000	-3165,80
65	1,00000	STR_SLU_1	-169,4176	811,99	3	0,350000	-0,500000	-3337,02
65	0,00000	STR_SLU_2	-263,0468	2661,34	3	0,350000	-0,500000	-3780,62
65	0,50000	STR_SLU_2	-374,1444	4034,22	3	0,350000	-0,500000	-5128,50
65	1,00000	STR_SLU_2	-453,9000	5023,32	3	0,350000	-0,500000	-6092,60
66	0,00000	q1_VAR TRAFF	68,2153	460,45	1	-0,350000	-0,500000	-1210,13
66	0,25000	q1_VAR TRAFF	79,5716	599,51	1	-0,350000	-0,500000	-1349,18
66	0,50000	q1_VAR TRAFF	90,9279	738,56	1	-0,350000	-0,500000	-1488,24
66	0,00000	G1+G2+G3	-285,1141	2956,55	3	0,350000	-0,500000	-4025,84
66	0,25000	G1+G2+G3	-309,2178	3257,95	3	0,350000	-0,500000	-4314,73
66	0,50000	G1+G2+G3	-328,4975	3500,28	3	0,350000	-0,500000	-4544,56
66	0,00000	STR_SLU_1	-169,4176	811,99	3	0,350000	-0,500000	-3337,02
66	0,25000	STR_SLU_1	-174,2604	879,72	3	0,350000	-0,500000	-3387,88
66	0,50000	STR_SLU_1	-174,2793	888,39	3	0,350000	-0,500000	-3379,67
66	0,00000	STR_SLU_2	-453,9000	5023,32	3	0,350000	-0,500000	-6092,60
66	0,25000	STR_SLU_2	-494,4219	5525,75	3	0,350000	-0,500000	-6582,54
66	0,50000	STR_SLU_2	-527,7079	5939,59	3	0,350000	-0,500000	-6983,87
67	0,00000	q1_VAR TRAFF	90,9279	738,56	1	-0,350000	-0,500000	-1488,24

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
67	0,22500	q1_VAR TRAFF	101,1485	863,71	1	-0,350000	-0,500000	-1613,39
67	0,45000	q1_VAR TRAFF	111,3692	988,87	1	-0,350000	-0,500000	-1738,54
67	0,00000	G1+G2+G3	-328,4975	3500,28	3	0,350000	-0,500000	-4544,56
67	0,22500	G1+G2+G3	-341,8273	3669,12	3	0,350000	-0,500000	-4702,16
67	0,45000	G1+G2+G3	-351,4548	3792,64	3	0,350000	-0,500000	-4814,42
67	0,00000	STR_SLU_1	-174,2793	888,39	3	0,350000	-0,500000	-3379,67
67	0,22500	STR_SLU_1	-170,2744	846,95	3	0,350000	-0,500000	-3323,04
67	0,45000	STR_SLU_1	-162,5672	760,17	3	0,350000	-0,500000	-3221,07
67	0,00000	STR_SLU_2	-527,7079	5939,59	3	0,350000	-0,500000	-6983,87
67	0,22500	STR_SLU_2	-551,6325	6238,17	3	0,350000	-0,500000	-7271,20
67	0,45000	STR_SLU_2	-570,0035	6468,74	3	0,350000	-0,500000	-7490,53
68	0,00000	q1_VAR TRAFF	111,3692	988,87	1	-0,350000	-0,500000	-1738,54
68	0,17500	q1_VAR TRAFF	119,3186	1086,21	1	-0,350000	-0,500000	-1835,88
68	0,35000	q1_VAR TRAFF	127,2679	1183,54	1	-0,350000	-0,500000	-1933,22
68	0,00000	G1+G2+G3	-351,4548	3792,64	3	0,350000	-0,500000	-4814,42
68	0,17500	G1+G2+G3	-356,4355	3858,00	3	0,350000	-0,500000	-4871,03
68	0,35000	G1+G2+G3	-359,2810	3897,22	3	0,350000	-0,500000	-4901,50
68	0,00000	STR_SLU_1	-162,5672	760,17	3	0,350000	-0,500000	-3221,07
68	0,17500	STR_SLU_1	-154,0653	661,97	3	0,350000	-0,500000	-3111,06
68	0,35000	STR_SLU_1	-143,4282	537,63	3	0,350000	-0,500000	-2974,90
68	0,00000	STR_SLU_2	-570,0035	6468,74	3	0,350000	-0,500000	-7490,53
68	0,17500	STR_SLU_2	-580,5311	6602,03	3	0,350000	-0,500000	-7615,06
68	0,35000	STR_SLU_2	-587,8559	6696,09	3	0,350000	-0,500000	-7700,38
69	0,00000	q1_VAR TRAFF	127,2679	1183,54	1	-0,350000	-0,500000	-1933,22
69	0,50000	q1_VAR TRAFF	149,9805	1461,66	1	-0,350000	-0,500000	-2211,33

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
69	1,00000	q1_VAR TRAFF	172,6931	1739,77	1	-0,350000	-0,500000	-2489,45
69	0,00000	G1+G2+G3	-359,2810	3897,22	3	0,350000	-0,500000	-4901,50
69	0,50000	G1+G2+G3	-356,3652	3874,01	3	0,350000	-0,500000	-4853,30
69	1,00000	G1+G2+G3	-337,4585	3655,00	3	0,350000	-0,500000	-4609,29
69	0,00000	STR_SLU_1	-143,4282	537,63	3	0,350000	-0,500000	-2974,90
69	0,50000	STR_SLU_1	-101,9909	47,10	3	0,350000	-0,500000	-2450,63
69	1,00000	STR_SLU_1	-44,5625	-639,23	3	0,350000	-0,500000	-1730,55
69	0,00000	STR_SLU_2	-587,8559	6696,09	3	0,350000	-0,500000	-7700,38
69	0,50000	STR_SLU_2	-592,2153	6761,97	3	0,350000	-0,500000	-7741,26
69	1,00000	STR_SLU_2	-572,5881	6534,14	3	0,350000	-0,500000	-7488,43
70	0,00000	q1_VAR TRAFF	172,6931	1739,77	1	-0,350000	-0,500000	-2489,45
70	0,50000	q1_VAR TRAFF	195,4056	2017,88	1	-0,350000	-0,500000	-2767,56
70	1,00000	q1_VAR TRAFF	218,1182	2296,00	1	-0,350000	-0,500000	-3045,67
70	0,00000	G1+G2+G3	-337,4585	3655,00	3	0,350000	-0,500000	-4609,29
70	0,50000	G1+G2+G3	-303,6269	3253,24	3	0,350000	-0,500000	-4182,52
70	1,00000	G1+G2+G3	-255,9365	2681,77	3	0,350000	-0,500000	-3586,06
70	0,00000	STR_SLU_1	-44,5625	-639,23	3	0,350000	-0,500000	-1730,55
70	0,50000	STR_SLU_1	27,7907	-827,72	1	-0,350000	-0,500000	-1508,31
70	1,00000	STR_SLU_1	114,0026	244,81	1	-0,350000	-0,500000	-2547,09
70	0,00000	STR_SLU_2	-572,5881	6534,14	3	0,350000	-0,500000	-7488,43
70	0,50000	STR_SLU_2	-530,5737	6032,18	3	0,350000	-0,500000	-6961,46
70	1,00000	STR_SLU_2	-467,7711	5275,67	3	0,350000	-0,500000	-6179,95
71	0,00000	q1_VAR TRAFF	218,1182	2296,00	1	-0,350000	-0,500000	-3045,67
71	0,50000	q1_VAR TRAFF	240,8307	2574,11	1	-0,350000	-0,500000	-3323,79
71	1,00000	q1_VAR TRAFF	263,5433	2852,22	1	-0,350000	-0,500000	-3601,90
71	0,00000	G1+G2+G3	-255,9365	2681,77	3	0,350000	-0,500000	-3586,06

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
71	0,50000	G1+G2+G3	-195,4534	1953,66	3	0,350000	-0,500000	-2832,95
71	1,00000	G1+G2+G3	-123,2436	1081,96	3	0,350000	-0,500000	-1936,25
71	0,00000	STR_SLU_1	114,0026	244,81	1	-0,350000	-0,500000	-2547,09
71	0,50000	STR_SLU_1	213,0074	1473,99	1	-0,350000	-0,500000	-3742,52
71	1,00000	STR_SLU_1	323,7388	2846,76	1	-0,350000	-0,500000	-5081,54
71	0,00000	STR_SLU_2	-467,7711	5275,67	3	0,350000	-0,500000	-6179,95
71	0,50000	STR_SLU_2	-385,7794	4284,19	3	0,350000	-0,500000	-5163,47
71	1,00000	STR_SLU_2	-286,1976	3077,32	3	0,350000	-0,500000	-3931,60
72	0,00000	q1_VAR TRAFF	263,5433	2852,22	1	-0,350000	-0,500000	-3601,90
72	0,50000	q1_VAR TRAFF	286,2558	3130,33	1	-0,350000	-0,500000	-3880,01
72	1,00000	q1_VAR TRAFF	308,9684	3408,45	1	-0,350000	-0,500000	-4158,12
72	0,00000	G1+G2+G3	-123,2436	1081,96	3	0,350000	-0,500000	-1936,25
72	0,50000	G1+G2+G3	-40,3731	79,72	3	0,350000	-0,500000	-909,01
72	1,00000	G1+G2+G3	52,0919	235,72	1	-0,350000	-0,500000	-1040,00
72	0,00000	STR_SLU_1	323,7388	2846,76	1	-0,350000	-0,500000	-5081,54
72	0,50000	STR_SLU_1	445,1309	4350,07	1	-0,350000	-0,500000	-6551,10
72	1,00000	STR_SLU_1	576,1175	5970,86	1	-0,350000	-0,500000	-8138,14
72	0,00000	STR_SLU_2	-286,1976	3077,32	3	0,350000	-0,500000	-3931,60
72	0,50000	STR_SLU_2	-170,6248	1674,64	3	0,350000	-0,500000	-2503,93
72	1,00000	STR_SLU_2	-40,6603	95,74	3	0,350000	-0,500000	-900,02
73	0,00000	q1_VAR TRAFF	308,9684	3408,45	1	-0,350000	-0,500000	-4158,12
73	0,50000	q1_VAR TRAFF	331,6809	3686,56	1	-0,350000	-0,500000	-4436,24
73	1,00000	q1_VAR TRAFF	354,3935	3964,67	1	-0,350000	-0,500000	-4714,35
73	0,00000	G1+G2+G3	52,0919	235,72	1	-0,350000	-0,500000	-1040,00
73	0,50000	G1+G2+G3	153,0854	1484,87	1	-0,350000	-0,500000	-2264,16
73	1,00000	G1+G2+G3	261,5414	2825,40	1	-0,350000	-0,500000	-3579,69
73	0,00000	STR_SLU_1	576,1175	5970,86	1	-0,350000	-0,500000	-8138,14

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
73	0,50000	STR_SLU_1	715,6326	7696,08	1	-0,350000	-0,500000	-9829,61
73	1,00000	STR_SLU_1	862,6102	9512,69	1	-0,350000	-0,500000	-11612,46
73	0,00000	STR_SLU_2	-40,6603	95,74	3	0,350000	-0,500000	-900,02
73	0,50000	STR_SLU_2	102,0970	860,52	1	-0,350000	-0,500000	-1639,81
73	1,00000	STR_SLU_2	256,0480	2758,14	1	-0,350000	-0,500000	-3512,42
74	0,00000	q1_VAR TRAFF	354,3935	3964,67	1	-0,350000	-0,500000	-4714,35
74	0,50000	q1_VAR TRAFF	377,1060	4242,79	1	-0,350000	-0,500000	-4992,46
74	1,00000	q1_VAR TRAFF	399,8186	4520,90	1	-0,350000	-0,500000	-5270,58
74	0,00000	G1+G2+G3	261,5414	2825,40	1	-0,350000	-0,500000	-3579,69
74	0,50000	G1+G2+G3	376,3937	4244,26	1	-0,350000	-0,500000	-4973,55
74	1,00000	G1+G2+G3	496,5764	5728,38	1	-0,350000	-0,500000	-6432,67
74	0,00000	STR_SLU_1	862,6102	9512,69	1	-0,350000	-0,500000	-11612,46
74	0,50000	STR_SLU_1	1015,9842	11407,61	1	-0,350000	-0,500000	-13473,64
74	1,00000	STR_SLU_1	1174,6884	13367,80	1	-0,350000	-0,500000	-15400,08
74	0,00000	STR_SLU_2	256,0480	2758,14	1	-0,350000	-0,500000	-3512,42
74	0,50000	STR_SLU_2	419,5936	4773,24	1	-0,350000	-0,500000	-5502,52
74	1,00000	STR_SLU_2	591,1345	6886,24	1	-0,350000	-0,500000	-7590,53
75	0,00000	q1_VAR TRAFF	399,8186	4520,90	1	-0,350000	-0,500000	-5270,58
75	0,10000	q1_VAR TRAFF	404,3611	4576,52	1	-0,350000	-0,500000	-5326,20
75	0,20000	q1_VAR TRAFF	408,9036	4632,14	1	-0,350000	-0,500000	-5381,82
75	0,00000	G1+G2+G3	496,5764	5728,38	1	-0,350000	-0,500000	-6432,67
75	0,10000	G1+G2+G3	521,2269	6032,73	1	-0,350000	-0,500000	-6732,01
75	0,20000	G1+G2+G3	546,0395	6339,06	1	-0,350000	-0,500000	-7033,34
75	0,00000	STR_SLU_1	1174,6884	13367,80	1	-0,350000	-0,500000	-15400,08
75	0,10000	STR_SLU_1	1207,0433	13767,36	1	-0,350000	-0,500000	-15792,89
75	0,20000	STR_SLU_1	1239,5603	14168,90	1	-0,350000	-0,500000	-16187,68
75	0,00000	STR_SLU_2	591,1345	6886,24	1	-0,350000	-0,500000	-7590,53

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
75	0,10000	STR_SLU_2	626,3638	7320,12	1	-0,350000	-0,500000	-8019,40
75	0,20000	STR_SLU_2	661,8361	7756,97	1	-0,350000	-0,500000	-8451,26
76	0,00000	q1_VAR TRAFF	1,101E-13	-366,52	1	-0,350000	-0,500000	-366,52
76	0,50000	q1_VAR TRAFF	-3,0524	-329,14	3	0,350000	-0,500000	-403,89
76	1,00000	q1_VAR TRAFF	-6,1047	-291,77	3	0,350000	-0,500000	-441,27
76	0,00000	G1+G2+G3	-2,274E-13	-609,64	3	0,350000	-0,500000	-609,64
76	0,50000	G1+G2+G3	40,2805	-103,91	1	-0,350000	-0,500000	-1090,37
76	1,00000	G1+G2+G3	55,4021	93,75	1	-0,350000	-0,500000	-1263,04
76	0,00000	STR_SLU_1	-1,924E-13	-1352,53	3	0,350000	-0,500000	-1352,53
76	0,50000	STR_SLU_1	35,1006	-905,85	1	-0,350000	-0,500000	-1765,46
76	1,00000	STR_SLU_1	45,0422	-767,24	1	-0,350000	-0,500000	-1870,32
76	0,00000	STR_SLU_2	-2,274E-13	-609,64	3	0,350000	-0,500000	-609,64
76	0,50000	STR_SLU_2	61,5977	157,12	1	-0,350000	-0,500000	-1351,40
76	1,00000	STR_SLU_2	85,4570	461,77	1	-0,350000	-0,500000	-1631,05
77	0,00000	q1_VAR TRAFF	-6,1047	-291,77	3	0,350000	-0,500000	-441,27
77	0,50000	q1_VAR TRAFF	-17,7529	-149,13	3	0,350000	-0,500000	-583,90
77	1,00000	q1_VAR TRAFF	-29,4010	-6,50	3	0,350000	-0,500000	-726,53
77	0,00000	G1+G2+G3	55,4021	93,75	1	-0,350000	-0,500000	-1263,04
77	0,50000	G1+G2+G3	123,1178	935,42	1	-0,350000	-0,500000	-2079,71
77	1,00000	G1+G2+G3	167,8069	1495,14	1	-0,350000	-0,500000	-2614,42
77	0,00000	STR_SLU_1	45,0422	-767,24	1	-0,350000	-0,500000	-1870,32
77	0,50000	STR_SLU_1	92,9908	-163,24	1	-0,350000	-0,500000	-2440,57
77	1,00000	STR_SLU_1	117,9126	158,80	1	-0,350000	-0,500000	-2728,86
77	0,00000	STR_SLU_2	85,4570	461,77	1	-0,350000	-0,500000	-1631,05
77	0,50000	STR_SLU_2	191,5219	1773,02	1	-0,350000	-0,500000	-2917,31
77	1,00000	STR_SLU_2	263,0468	2661,34	1	-0,350000	-0,500000	-3780,62

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
78	0,00000	q1_VAR TRAFF	-29,4010	-6,50	3	0,350000	-0,500000	-726,53
78	0,50000	q1_VAR TRAFF	-48,7125	229,96	3	0,350000	-0,500000	-963,00
78	1,00000	q1_VAR TRAFF	-68,0239	466,43	3	0,350000	-0,500000	-1199,46
78	0,00000	G1+G2+G3	167,8069	1495,14	1	-0,350000	-0,500000	-2614,42
78	0,50000	G1+G2+G3	236,9079	2353,77	1	-0,350000	-0,500000	-3448,06
78	1,00000	G1+G2+G3	285,1141	2956,55	1	-0,350000	-0,500000	-4025,84
78	0,00000	STR_SLU_1	117,9126	158,80	1	-0,350000	-0,500000	-2728,86
78	0,50000	STR_SLU_1	154,2417	620,52	1	-0,350000	-0,500000	-3156,83
78	1,00000	STR_SLU_1	169,6760	826,39	1	-0,350000	-0,500000	-3328,95
78	0,00000	STR_SLU_2	263,0468	2661,34	1	-0,350000	-0,500000	-3780,62
78	0,50000	STR_SLU_2	374,1444	4034,22	1	-0,350000	-0,500000	-5128,50
78	1,00000	STR_SLU_2	453,9000	5023,32	1	-0,350000	-0,500000	-6092,60
79	0,00000	q1_VAR TRAFF	-68,0239	466,43	3	0,350000	-0,500000	-1199,46
79	0,25000	q1_VAR TRAFF	-79,3483	605,10	3	0,350000	-0,500000	-1338,13
79	0,50000	q1_VAR TRAFF	-90,6727	743,76	3	0,350000	-0,500000	-1476,79
79	0,00000	G1+G2+G3	285,1141	2956,55	1	-0,350000	-0,500000	-4025,84
79	0,25000	G1+G2+G3	309,2178	3257,95	1	-0,350000	-0,500000	-4314,73
79	0,50000	G1+G2+G3	328,4975	3500,28	1	-0,350000	-0,500000	-4544,56
79	0,00000	STR_SLU_1	169,6760	826,39	1	-0,350000	-0,500000	-3328,95
79	0,25000	STR_SLU_1	174,5619	894,65	1	-0,350000	-0,500000	-3380,33
79	0,50000	STR_SLU_1	174,6238	903,85	1	-0,350000	-0,500000	-3372,66
79	0,00000	STR_SLU_2	453,9000	5023,32	1	-0,350000	-0,500000	-6092,60
79	0,25000	STR_SLU_2	494,4219	5525,75	1	-0,350000	-0,500000	-6582,54
79	0,50000	STR_SLU_2	527,7079	5939,59	1	-0,350000	-0,500000	-6983,87
80	0,00000	q1_VAR TRAFF	-90,6727	743,76	3	0,350000	-0,500000	-1476,79

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
80	0,22500	q1_VAR TRAFF	-100,8647	868,56	3	0,350000	-0,500000	-1601,59
80	0,45000	q1_VAR TRAFF	-111,0566	993,36	3	0,350000	-0,500000	-1726,39
80	0,00000	G1+G2+G3	328,4975	3500,28	1	-0,350000	-0,500000	-4544,56
80	0,22500	G1+G2+G3	341,8273	3669,12	1	-0,350000	-0,500000	-4702,16
80	0,45000	G1+G2+G3	351,4548	3792,64	1	-0,350000	-0,500000	-4814,42
80	0,00000	STR_SLU_1	174,6238	903,85	1	-0,350000	-0,500000	-3372,66
80	0,22500	STR_SLU_1	170,6576	862,87	1	-0,350000	-0,500000	-3316,50
80	0,45000	STR_SLU_1	162,9891	776,57	1	-0,350000	-0,500000	-3215,00
80	0,00000	STR_SLU_2	527,7079	5939,59	1	-0,350000	-0,500000	-6983,87
80	0,22500	STR_SLU_2	551,6325	6238,17	1	-0,350000	-0,500000	-7271,20
80	0,45000	STR_SLU_2	570,0035	6468,74	1	-0,350000	-0,500000	-7490,53
81	0,00000	q1_VAR TRAFF	-111,0566	993,36	3	0,350000	-0,500000	-1726,39
81	0,17500	q1_VAR TRAFF	-118,9837	1090,43	3	0,350000	-0,500000	-1823,46
81	0,35000	q1_VAR TRAFF	-126,9108	1187,49	3	0,350000	-0,500000	-1920,53
81	0,00000	G1+G2+G3	351,4548	3792,64	1	-0,350000	-0,500000	-4814,42
81	0,17500	G1+G2+G3	356,4355	3858,00	1	-0,350000	-0,500000	-4871,03
81	0,35000	G1+G2+G3	359,2810	3897,22	1	-0,350000	-0,500000	-4901,50
81	0,00000	STR_SLU_1	162,9891	776,57	1	-0,350000	-0,500000	-3215,00
81	0,17500	STR_SLU_1	154,5173	678,74	1	-0,350000	-0,500000	-3105,36
81	0,35000	STR_SLU_1	143,9104	554,76	1	-0,350000	-0,500000	-2969,57
81	0,00000	STR_SLU_2	570,0035	6468,74	1	-0,350000	-0,500000	-7490,53
81	0,17500	STR_SLU_2	580,5311	6602,03	1	-0,350000	-0,500000	-7615,06
81	0,35000	STR_SLU_2	587,8559	6696,09	1	-0,350000	-0,500000	-7700,38
82	0,00000	q1_VAR TRAFF	-126,9108	1187,49	3	0,350000	-0,500000	-1920,53
82	0,50000	q1_VAR TRAFF	-149,5596	1464,83	3	0,350000	-0,500000	-2197,86

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
82	1,00000	q1_VAR TRAFF	-172,2085	1742,16	3	0,350000	-0,500000	-2475,19
82	0,00000	G1+G2+G3	359,2810	3897,22	1	-0,350000	-0,500000	-4901,50
82	0,50000	G1+G2+G3	356,3652	3874,01	1	-0,350000	-0,500000	-4853,30
82	1,00000	G1+G2+G3	337,4585	3655,00	1	-0,350000	-0,500000	-4609,29
82	0,00000	STR_SLU_1	143,9104	554,76	1	-0,350000	-0,500000	-2969,57
82	0,50000	STR_SLU_1	102,5591	65,30	1	-0,350000	-0,500000	-2446,35
82	1,00000	STR_SLU_1	45,2168	-619,98	1	-0,350000	-0,500000	-1727,33
82	0,00000	STR_SLU_2	587,8559	6696,09	1	-0,350000	-0,500000	-7700,38
82	0,50000	STR_SLU_2	592,2153	6761,97	1	-0,350000	-0,500000	-7741,26
82	1,00000	STR_SLU_2	572,5881	6534,14	1	-0,350000	-0,500000	-7488,43
83	0,00000	q1_VAR TRAFF	-172,2085	1742,16	3	0,350000	-0,500000	-2475,19
83	0,50000	q1_VAR TRAFF	-194,8573	2019,49	3	0,350000	-0,500000	-2752,52
83	1,00000	q1_VAR TRAFF	-217,5061	2296,82	3	0,350000	-0,500000	-3029,86
83	0,00000	G1+G2+G3	337,4585	3655,00	1	-0,350000	-0,500000	-4609,29
83	0,50000	G1+G2+G3	303,6269	3253,24	1	-0,350000	-0,500000	-4182,52
83	1,00000	G1+G2+G3	255,9365	2681,77	1	-0,350000	-0,500000	-3586,06
83	0,00000	STR_SLU_1	45,2168	-619,98	1	-0,350000	-0,500000	-1727,33
83	0,50000	STR_SLU_1	-27,0504	-825,55	3	0,350000	-0,500000	-1488,01
83	1,00000	STR_SLU_1	-113,1764	245,93	3	0,350000	-0,500000	-2525,74
83	0,00000	STR_SLU_2	572,5881	6534,14	1	-0,350000	-0,500000	-7488,43
83	0,50000	STR_SLU_2	530,5737	6032,18	1	-0,350000	-0,500000	-6961,46
83	1,00000	STR_SLU_2	467,7711	5275,67	1	-0,350000	-0,500000	-6179,95
84	0,00000	q1_VAR TRAFF	-217,5061	2296,82	3	0,350000	-0,500000	-3029,86
84	0,50000	q1_VAR TRAFF	-240,1549	2574,16	3	0,350000	-0,500000	-3307,19
84	1,00000	q1_VAR TRAFF	-262,8037	2851,49	3	0,350000	-0,500000	-3584,52
84	0,00000	G1+G2+G3	255,9365	2681,77	1	-0,350000	-0,500000	-3586,06

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
84	0,50000	G1+G2+G3	195,4534	1953,66	1	-0,350000	-0,500000	-2832,95
84	1,00000	G1+G2+G3	123,2436	1081,96	1	-0,350000	-0,500000	-1936,25
84	0,00000	STR_SLU_1	-113,1764	245,93	3	0,350000	-0,500000	-2525,74
84	0,50000	STR_SLU_1	-212,0950	1474,05	3	0,350000	-0,500000	-3720,11
84	1,00000	STR_SLU_1	-322,7405	2845,77	3	0,350000	-0,500000	-5058,08
84	0,00000	STR_SLU_2	467,7711	5275,67	1	-0,350000	-0,500000	-6179,95
84	0,50000	STR_SLU_2	385,7794	4284,19	1	-0,350000	-0,500000	-5163,47
84	1,00000	STR_SLU_2	286,1976	3077,32	1	-0,350000	-0,500000	-3931,60
85	0,00000	q1_VAR TRAFF	-262,8037	2851,49	3	0,350000	-0,500000	-3584,52
85	0,50000	q1_VAR TRAFF	-285,4525	3128,82	3	0,350000	-0,500000	-3861,85
85	1,00000	q1_VAR TRAFF	-308,1014	3406,15	3	0,350000	-0,500000	-4139,19
85	0,00000	G1+G2+G3	123,2436	1081,96	1	-0,350000	-0,500000	-1936,25
85	0,50000	G1+G2+G3	40,3731	79,72	1	-0,350000	-0,500000	-909,01
85	1,00000	G1+G2+G3	-52,0919	235,72	3	0,350000	-0,500000	-1040,00
85	0,00000	STR_SLU_1	-322,7405	2845,77	3	0,350000	-0,500000	-5058,08
85	0,50000	STR_SLU_1	-444,0465	4348,02	3	0,350000	-0,500000	-6526,58
85	1,00000	STR_SLU_1	-574,9471	5967,76	3	0,350000	-0,500000	-8112,57
85	0,00000	STR_SLU_2	286,1976	3077,32	1	-0,350000	-0,500000	-3931,60
85	0,50000	STR_SLU_2	170,6248	1674,64	1	-0,350000	-0,500000	-2503,93
85	1,00000	STR_SLU_2	40,6603	95,74	1	-0,350000	-0,500000	-900,02
86	0,00000	q1_VAR TRAFF	-308,1014	3406,15	3	0,350000	-0,500000	-4139,19
86	0,50000	q1_VAR TRAFF	-330,7502	3683,49	3	0,350000	-0,500000	-4416,52
86	1,00000	q1_VAR TRAFF	-353,3990	3960,82	3	0,350000	-0,500000	-4693,85
86	0,00000	G1+G2+G3	-52,0919	235,72	3	0,350000	-0,500000	-1040,00
86	0,50000	G1+G2+G3	-153,0854	1484,87	3	0,350000	-0,500000	-2264,16
86	1,00000	G1+G2+G3	-261,5414	2825,40	3	0,350000	-0,500000	-3579,69
86	0,00000	STR_SLU_1	-574,9471	5967,76	3	0,350000	-0,500000	-8112,57

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
86	0,50000	STR_SLU_1	-714,3761	7691,93	3	0,350000	-0,500000	-9802,99
86	1,00000	STR_SLU_1	-861,2677	9507,48	3	0,350000	-0,500000	-11584,79
86	0,00000	STR_SLU_2	40,6603	95,74	1	-0,350000	-0,500000	-900,02
86	0,50000	STR_SLU_2	-102,0970	860,52	3	0,350000	-0,500000	-1639,81
86	1,00000	STR_SLU_2	-256,0480	2758,14	3	0,350000	-0,500000	-3512,42
87	0,00000	q1_VAR TRAFF	-353,3990	3960,82	3	0,350000	-0,500000	-4693,85
87	0,50000	q1_VAR TRAFF	-376,0478	4238,15	3	0,350000	-0,500000	-4971,18
87	1,00000	q1_VAR TRAFF	-398,6966	4515,48	3	0,350000	-0,500000	-5248,52
87	0,00000	G1+G2+G3	-261,5414	2825,40	3	0,350000	-0,500000	-3579,69
87	0,50000	G1+G2+G3	-376,3937	4244,26	3	0,350000	-0,500000	-4973,55
87	1,00000	G1+G2+G3	-496,5764	5728,38	3	0,350000	-0,500000	-6432,67
87	0,00000	STR_SLU_1	-861,2677	9507,48	3	0,350000	-0,500000	-11584,79
87	0,50000	STR_SLU_1	-1014,5556	11401,35	3	0,350000	-0,500000	-13444,91
87	1,00000	STR_SLU_1	-1173,1738	13360,49	3	0,350000	-0,500000	-15370,30
87	0,00000	STR_SLU_2	-256,0480	2758,14	3	0,350000	-0,500000	-3512,42
87	0,50000	STR_SLU_2	-419,5936	4773,24	3	0,350000	-0,500000	-5502,52
87	1,00000	STR_SLU_2	-591,1345	6886,24	3	0,350000	-0,500000	-7590,53
88	0,00000	q1_VAR TRAFF	-398,6966	4515,48	3	0,350000	-0,500000	-5248,52
88	0,10000	q1_VAR TRAFF	-403,2264	4570,95	3	0,350000	-0,500000	-5303,98
88	0,20000	q1_VAR TRAFF	-407,7562	4626,42	3	0,350000	-0,500000	-5359,45
88	0,00000	G1+G2+G3	-496,5764	5728,38	3	0,350000	-0,500000	-6432,67
88	0,10000	G1+G2+G3	-521,2269	6032,73	3	0,350000	-0,500000	-6732,01
88	0,20000	G1+G2+G3	-546,0395	6339,06	3	0,350000	-0,500000	-7033,34
88	0,00000	STR_SLU_1	-1173,1738	13360,49	3	0,350000	-0,500000	-15370,30
88	0,10000	STR_SLU_1	-1205,5115	13759,84	3	0,350000	-0,500000	-15762,89
88	0,20000	STR_SLU_1	-1238,0112	14161,17	3	0,350000	-0,500000	-16157,48
88	0,00000	STR_SLU_2	-591,1345	6886,24	3	0,350000	-0,500000	-7590,53

Table: Element Forces - Frames, Part 2 of 3

Frame	Station	OutputCase	M3	S11Max	PtS11Max	x2S11Max	x3S11Max	S11Min
	m		KN-m	KN/m2		m	m	KN/m2
88	0,10000	STR_SLU_2	-626,3638	7320,12	3	0,350000	-0,500000	-8019,40
88	0,20000	STR_SLU_2	-661,8361	7756,97	3	0,350000	-0,500000	-8451,26

Table: Element Forces - Frames, Part 3 of 3

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
1	0,00000	q1_VAR TRAFF	1	-0,300000	-0,500000	1-1	0,00000
1	0,35000	q1_VAR TRAFF	1	-0,300000	-0,500000	1-1	0,35000
1	0,00000	G1+G2+G3	1	-0,300000	-0,500000	1-1	0,00000
1	0,35000	G1+G2+G3	1	-0,300000	-0,500000	1-1	0,35000
1	0,00000	STR_SLU_1	1	-0,300000	-0,500000	1-1	0,00000
1	0,35000	STR_SLU_1	1	-0,300000	-0,500000	1-1	0,35000
1	0,00000	STR_SLU_2	1	-0,300000	-0,500000	1-1	0,00000
1	0,35000	STR_SLU_2	1	-0,300000	-0,500000	1-1	0,35000
2	0,00000	q1_VAR TRAFF	1	-0,300000	-0,500000	2-1	0,00000
2	0,15000	q1_VAR TRAFF	1	-0,300000	-0,500000	2-1	0,15000
2	0,00000	G1+G2+G3	1	-0,300000	-0,500000	2-1	0,00000
2	0,15000	G1+G2+G3	1	-0,300000	-0,500000	2-1	0,15000
2	0,00000	STR_SLU_1	1	-0,300000	-0,500000	2-1	0,00000
2	0,15000	STR_SLU_1	1	-0,300000	-0,500000	2-1	0,15000
2	0,00000	STR_SLU_2	1	-0,300000	-0,500000	2-1	0,00000
2	0,15000	STR_SLU_2	1	-0,300000	-0,500000	2-1	0,15000
3	0,00000	q1_VAR TRAFF	1	-0,300000	-0,500000	3-1	0,00000
3	0,15000	q1_VAR TRAFF	1	-0,300000	-0,500000	3-1	0,15000
3	0,00000	G1+G2+G3	1	-0,300000	-0,500000	3-1	0,00000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
3	0,15000	G1+G2+G3	1	-0,300000	-0,500000	3-1	0,15000
3	0,00000	STR_SLU_1	1	-0,300000	-0,500000	3-1	0,00000
3	0,15000	STR_SLU_1	1	-0,300000	-0,500000	3-1	0,15000
3	0,00000	STR_SLU_2	1	-0,300000	-0,500000	3-1	0,00000
3	0,15000	STR_SLU_2	1	-0,300000	-0,500000	3-1	0,15000
5	0,00000	q1_VAR TRAFF	3	0,300000	-0,500000	5-1	0,00000
5	0,50000	q1_VAR TRAFF	3	0,300000	-0,500000	5-1	0,50000
5	0,00000	G1+G2+G3	1	-0,300000	-0,500000	5-1	0,00000
5	0,50000	G1+G2+G3	1	-0,300000	-0,500000	5-1	0,50000
5	0,00000	STR_SLU_1	3	0,300000	-0,500000	5-1	0,00000
5	0,50000	STR_SLU_1	3	0,300000	-0,500000	5-1	0,50000
5	0,00000	STR_SLU_2	1	-0,300000	-0,500000	5-1	0,00000
5	0,50000	STR_SLU_2	1	-0,300000	-0,500000	5-1	0,50000
6	0,00000	q1_VAR TRAFF	3	0,300000	-0,500000	6-1	0,00000
6	0,20000	q1_VAR TRAFF	3	0,300000	-0,500000	6-1	0,20000
6	0,00000	G1+G2+G3	1	-0,300000	-0,500000	6-1	0,00000
6	0,20000	G1+G2+G3	3	0,300000	-0,500000	6-1	0,20000
6	0,00000	STR_SLU_1	3	0,300000	-0,500000	6-1	0,00000
6	0,20000	STR_SLU_1	3	0,300000	-0,500000	6-1	0,20000
6	0,00000	STR_SLU_2	1	-0,300000	-0,500000	6-1	0,00000
6	0,20000	STR_SLU_2	1	-0,300000	-0,500000	6-1	0,20000
7	0,00000	q1_VAR TRAFF	3	0,300000	-0,500000	7-1	0,00000
7	0,30000	q1_VAR TRAFF	3	0,300000	-0,500000	7-1	0,30000
7	0,00000	G1+G2+G3	3	0,300000	-0,500000	7-1	0,00000
7	0,30000	G1+G2+G3	3	0,300000	-0,500000	7-1	0,30000
7	0,00000	STR_SLU_1	3	0,300000	-0,500000	7-1	0,00000
7	0,30000	STR_SLU_1	3	0,300000	-0,500000	7-1	0,30000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
7	0,00000	STR_SLU_2	1	-0,300000	-0,500000	7-1	0,00000
7	0,30000	STR_SLU_2	1	-0,300000	-0,500000	7-1	0,30000
8	0,00000	q1_VAR TRAFF	3	0,300000	-0,500000	8-1	0,00000
8	0,50000	q1_VAR TRAFF	3	0,300000	-0,500000	8-1	0,50000
8	1,00000	q1_VAR TRAFF	3	0,300000	-0,500000	8-1	1,00000
8	1,50000	q1_VAR TRAFF	3	0,300000	-0,500000	8-1	1,50000
8	0,00000	G1+G2+G3	3	0,300000	-0,500000	8-1	0,00000
8	0,50000	G1+G2+G3	3	0,300000	-0,500000	8-1	0,50000
8	1,00000	G1+G2+G3	3	0,300000	-0,500000	8-1	1,00000
8	1,50000	G1+G2+G3	3	0,300000	-0,500000	8-1	1,50000
8	0,00000	STR_SLU_1	3	0,300000	-0,500000	8-1	0,00000
8	0,50000	STR_SLU_1	3	0,300000	-0,500000	8-1	0,50000
8	1,00000	STR_SLU_1	3	0,300000	-0,500000	8-1	1,00000
8	1,50000	STR_SLU_1	3	0,300000	-0,500000	8-1	1,50000
8	0,00000	STR_SLU_2	1	-0,300000	-0,500000	8-1	0,00000
8	0,50000	STR_SLU_2	1	-0,300000	-0,500000	8-1	0,50000
8	1,00000	STR_SLU_2	1	-0,300000	-0,500000	8-1	1,00000
8	1,50000	STR_SLU_2	1	-0,300000	-0,500000	8-1	1,50000
9	0,00000	q1_VAR TRAFF	3	0,300000	-0,500000	9-1	0,00000
9	0,25000	q1_VAR TRAFF	3	0,300000	-0,500000	9-1	0,25000
9	0,00000	G1+G2+G3	3	0,300000	-0,500000	9-1	0,00000
9	0,25000	G1+G2+G3	3	0,300000	-0,500000	9-1	0,25000
9	0,00000	STR_SLU_1	3	0,300000	-0,500000	9-1	0,00000
9	0,25000	STR_SLU_1	3	0,300000	-0,500000	9-1	0,25000
9	0,00000	STR_SLU_2	1	-0,300000	-0,500000	9-1	0,00000
9	0,25000	STR_SLU_2	1	-0,300000	-0,500000	9-1	0,25000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
10	0,00000	q1_VAR TRAFF	3	0,300000	-0,500000	10-1	0,00000
10	0,05000	q1_VAR TRAFF	3	0,300000	-0,500000	10-1	0,05000
10	0,00000	G1+G2+G3	3	0,300000	-0,500000	10-1	0,00000
10	0,05000	G1+G2+G3	3	0,300000	-0,500000	10-1	0,05000
10	0,00000	STR_SLU_1	3	0,300000	-0,500000	10-1	0,00000
10	0,05000	STR_SLU_1	3	0,300000	-0,500000	10-1	0,05000
10	0,00000	STR_SLU_2	1	-0,300000	-0,500000	10-1	0,00000
10	0,05000	STR_SLU_2	1	-0,300000	-0,500000	10-1	0,05000
11	0,00000	q1_VAR TRAFF	3	0,300000	-0,500000	11-1	0,00000
11	0,20000	q1_VAR TRAFF	3	0,300000	-0,500000	11-1	0,20000
11	0,00000	G1+G2+G3	3	0,300000	-0,500000	11-1	0,00000
11	0,20000	G1+G2+G3	3	0,300000	-0,500000	11-1	0,20000
11	0,00000	STR_SLU_1	3	0,300000	-0,500000	11-1	0,00000
11	0,20000	STR_SLU_1	3	0,300000	-0,500000	11-1	0,20000
11	0,00000	STR_SLU_2	1	-0,300000	-0,500000	11-1	0,00000
11	0,20000	STR_SLU_2	1	-0,300000	-0,500000	11-1	0,20000
12	0,00000	q1_VAR TRAFF	3	0,300000	-0,500000	12-1	0,00000
12	0,50000	q1_VAR TRAFF	3	0,300000	-0,500000	12-1	0,50000
12	0,00000	G1+G2+G3	3	0,300000	-0,500000	12-1	0,00000
12	0,50000	G1+G2+G3	3	0,300000	-0,500000	12-1	0,50000
12	0,00000	STR_SLU_1	3	0,300000	-0,500000	12-1	0,00000
12	0,50000	STR_SLU_1	3	0,300000	-0,500000	12-1	0,50000
12	0,00000	STR_SLU_2	1	-0,300000	-0,500000	12-1	0,00000
12	0,50000	STR_SLU_2	1	-0,300000	-0,500000	12-1	0,50000
13	0,00000	q1_VAR TRAFF	3	0,300000	-0,500000	13-1	0,00000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
13	0,20000	q1_VAR TRAFF	3	0,300000	-0,500000	13-1	0,20000
13	0,00000	G1+G2+G3	3	0,300000	-0,500000	13-1	0,00000
13	0,20000	G1+G2+G3	3	0,300000	-0,500000	13-1	0,20000
13	0,00000	STR_SLU_1	3	0,300000	-0,500000	13-1	0,00000
13	0,20000	STR_SLU_1	3	0,300000	-0,500000	13-1	0,20000
13	0,00000	STR_SLU_2	1	-0,300000	-0,500000	13-1	0,00000
13	0,20000	STR_SLU_2	1	-0,300000	-0,500000	13-1	0,20000
14	0,00000	q1_VAR TRAFF	3	0,300000	-0,500000	14-1	0,00000
14	0,30000	q1_VAR TRAFF	3	0,300000	-0,500000	14-1	0,30000
14	0,00000	G1+G2+G3	3	0,300000	-0,500000	14-1	0,00000
14	0,30000	G1+G2+G3	3	0,300000	-0,500000	14-1	0,30000
14	0,00000	STR_SLU_1	3	0,300000	-0,500000	14-1	0,00000
14	0,30000	STR_SLU_1	3	0,300000	-0,500000	14-1	0,30000
14	0,00000	STR_SLU_2	1	-0,300000	-0,500000	14-1	0,00000
14	0,30000	STR_SLU_2	1	-0,300000	-0,500000	14-1	0,30000
15	0,00000	q1_VAR TRAFF	3	0,300000	-0,500000	15-1	0,00000
15	0,50000	q1_VAR TRAFF	3	0,300000	-0,500000	15-1	0,50000
15	1,00000	q1_VAR TRAFF	3	0,300000	-0,500000	15-1	1,00000
15	1,50000	q1_VAR TRAFF	3	0,300000	-0,500000	15-1	1,50000
15	0,00000	G1+G2+G3	3	0,300000	-0,500000	15-1	0,00000
15	0,50000	G1+G2+G3	3	0,300000	-0,500000	15-1	0,50000
15	1,00000	G1+G2+G3	1	-0,300000	-0,500000	15-1	1,00000
15	1,50000	G1+G2+G3	1	-0,300000	-0,500000	15-1	1,50000
15	0,00000	STR_SLU_1	3	0,300000	-0,500000	15-1	0,00000
15	0,50000	STR_SLU_1	3	0,300000	-0,500000	15-1	0,50000
15	1,00000	STR_SLU_1	3	0,300000	-0,500000	15-1	1,00000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
15	1,50000	STR_SLU_1	3	0,300000	-0,500000	15-1	1,50000
15	0,00000	STR_SLU_2	1	-0,300000	-0,500000	15-1	0,00000
15	0,50000	STR_SLU_2	1	-0,300000	-0,500000	15-1	0,50000
15	1,00000	STR_SLU_2	1	-0,300000	-0,500000	15-1	1,00000
15	1,50000	STR_SLU_2	1	-0,300000	-0,500000	15-1	1,50000
16	0,00000	q1_VAR TRAFF	3	0,300000	-0,500000	16-1	0,00000
16	0,30000	q1_VAR TRAFF	3	0,300000	-0,500000	16-1	0,30000
16	0,00000	G1+G2+G3	1	-0,300000	-0,500000	16-1	0,00000
16	0,30000	G1+G2+G3	1	-0,300000	-0,500000	16-1	0,30000
16	0,00000	STR_SLU_1	3	0,300000	-0,500000	16-1	0,00000
16	0,30000	STR_SLU_1	3	0,300000	-0,500000	16-1	0,30000
16	0,00000	STR_SLU_2	1	-0,300000	-0,500000	16-1	0,00000
16	0,30000	STR_SLU_2	1	-0,300000	-0,500000	16-1	0,30000
17	0,00000	q1_VAR TRAFF	3	0,300000	-0,500000	17-1	0,00000
17	0,20000	q1_VAR TRAFF	3	0,300000	-0,500000	17-1	0,20000
17	0,00000	G1+G2+G3	1	-0,300000	-0,500000	17-1	0,00000
17	0,20000	G1+G2+G3	1	-0,300000	-0,500000	17-1	0,20000
17	0,00000	STR_SLU_1	3	0,300000	-0,500000	17-1	0,00000
17	0,20000	STR_SLU_1	3	0,300000	-0,500000	17-1	0,20000
17	0,00000	STR_SLU_2	1	-0,300000	-0,500000	17-1	0,00000
17	0,20000	STR_SLU_2	1	-0,300000	-0,500000	17-1	0,20000
18	0,00000	q1_VAR TRAFF	3	0,300000	-0,500000	18-1	0,00000
18	0,50000	q1_VAR TRAFF	1	-0,300000	-0,500000	18-1	0,50000
18	0,00000	G1+G2+G3	1	-0,300000	-0,500000	18-1	0,00000
18	0,50000	G1+G2+G3	1	-0,300000	-0,500000	18-1	0,50000
18	0,00000	STR_SLU_1	3	0,300000	-0,500000	18-1	0,00000
18	0,50000	STR_SLU_1	1	-0,300000	-0,500000	18-1	0,50000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
18	0,00000	STR_SLU_2	1	-0,300000	-0,500000	18-1	0,00000
18	0,50000	STR_SLU_2	1	-0,300000	-0,500000	18-1	0,50000
19	0,00000	q1_VAR TRAFF	1	-0,300000	-0,500000	19-1	0,00000
19	0,38333	q1_VAR TRAFF	1	-0,300000	-0,500000	19-1	0,38333
19	0,76667	q1_VAR TRAFF	1	-0,300000	-0,500000	19-1	0,76667
19	1,15000	q1_VAR TRAFF	1	-0,300000	-0,500000	19-1	1,15000
19	0,00000	G1+G2+G3	1	-0,300000	-0,500000	19-1	0,00000
19	0,38333	G1+G2+G3	1	-0,300000	-0,500000	19-1	0,38333
19	0,76667	G1+G2+G3	1	-0,300000	-0,500000	19-1	0,76667
19	1,15000	G1+G2+G3	1	-0,300000	-0,500000	19-1	1,15000
19	0,00000	STR_SLU_1	1	-0,300000	-0,500000	19-1	0,00000
19	0,38333	STR_SLU_1	1	-0,300000	-0,500000	19-1	0,38333
19	0,76667	STR_SLU_1	1	-0,300000	-0,500000	19-1	0,76667
19	1,15000	STR_SLU_1	1	-0,300000	-0,500000	19-1	1,15000
19	0,00000	STR_SLU_2	1	-0,300000	-0,500000	19-1	0,00000
19	0,38333	STR_SLU_2	1	-0,300000	-0,500000	19-1	0,38333
19	0,76667	STR_SLU_2	1	-0,300000	-0,500000	19-1	0,76667
19	1,15000	STR_SLU_2	1	-0,300000	-0,500000	19-1	1,15000
20	0,00000	q1_VAR TRAFF	1	-0,300000	-0,500000	20-1	0,00000
20	0,50000	q1_VAR TRAFF	1	-0,300000	-0,500000	20-1	0,50000
20	0,00000	G1+G2+G3	1	-0,300000	-0,500000	20-1	0,00000
20	0,50000	G1+G2+G3	1	-0,300000	-0,500000	20-1	0,50000
20	0,00000	STR_SLU_1	1	-0,300000	-0,500000	20-1	0,00000
20	0,50000	STR_SLU_1	1	-0,300000	-0,500000	20-1	0,50000
20	0,00000	STR_SLU_2	1	-0,300000	-0,500000	20-1	0,00000
20	0,50000	STR_SLU_2	1	-0,300000	-0,500000	20-1	0,50000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
28	0,00000	q1_VAR TRAFF	1	-0,300000	-0,500000	28-1	0,00000
28	0,45000	q1_VAR TRAFF	1	-0,300000	-0,500000	28-1	0,45000
28	0,90000	q1_VAR TRAFF	1	-0,300000	-0,500000	28-1	0,90000
28	1,35000	q1_VAR TRAFF	3	0,300000	-0,500000	28-1	1,35000
28	1,80000	q1_VAR TRAFF	3	0,300000	-0,500000	28-1	1,80000
28	0,00000	G1+G2+G3	1	-0,300000	-0,500000	28-1	0,00000
28	0,45000	G1+G2+G3	1	-0,300000	-0,500000	28-1	0,45000
28	0,90000	G1+G2+G3	1	-0,300000	-0,500000	28-1	0,90000
28	1,35000	G1+G2+G3	1	-0,300000	-0,500000	28-1	1,35000
28	1,80000	G1+G2+G3	1	-0,300000	-0,500000	28-1	1,80000
28	0,00000	STR_SLU_1	1	-0,300000	-0,500000	28-1	0,00000
28	0,45000	STR_SLU_1	1	-0,300000	-0,500000	28-1	0,45000
28	0,90000	STR_SLU_1	1	-0,300000	-0,500000	28-1	0,90000
28	1,35000	STR_SLU_1	1	-0,300000	-0,500000	28-1	1,35000
28	1,80000	STR_SLU_1	3	0,300000	-0,500000	28-1	1,80000
28	0,00000	STR_SLU_2	1	-0,300000	-0,500000	28-1	0,00000
28	0,45000	STR_SLU_2	1	-0,300000	-0,500000	28-1	0,45000
28	0,90000	STR_SLU_2	1	-0,300000	-0,500000	28-1	0,90000
28	1,35000	STR_SLU_2	1	-0,300000	-0,500000	28-1	1,35000
28	1,80000	STR_SLU_2	1	-0,300000	-0,500000	28-1	1,80000
29	0,00000	q1_VAR TRAFF	3	0,300000	-0,500000	29-1	0,00000
29	0,20000	q1_VAR TRAFF	3	0,300000	-0,500000	29-1	0,20000
29	0,00000	G1+G2+G3	1	-0,300000	-0,500000	29-1	0,00000
29	0,20000	G1+G2+G3	1	-0,300000	-0,500000	29-1	0,20000
29	0,00000	STR_SLU_1	3	0,300000	-0,500000	29-1	0,00000
29	0,20000	STR_SLU_1	3	0,300000	-0,500000	29-1	0,20000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
29	0,00000	STR_SLU_2	1	-0,300000	-0,500000	29-1	0,00000
29	0,20000	STR_SLU_2	1	-0,300000	-0,500000	29-1	0,20000
63	0,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	63-1	0,00000
63	0,50000	q1_VAR TRAFF	3	0,350000	-0,500000	63-1	0,50000
63	1,00000	q1_VAR TRAFF	3	0,350000	-0,500000	63-1	1,00000
63	0,00000	G1+G2+G3	3	0,350000	-0,500000	63-1	0,00000
63	0,50000	G1+G2+G3	1	-0,350000	-0,500000	63-1	0,50000
63	1,00000	G1+G2+G3	1	-0,350000	-0,500000	63-1	1,00000
63	0,00000	STR_SLU_1	3	0,350000	-0,500000	63-1	0,00000
63	0,50000	STR_SLU_1	1	-0,350000	-0,500000	63-1	0,50000
63	1,00000	STR_SLU_1	1	-0,350000	-0,500000	63-1	1,00000
63	0,00000	STR_SLU_2	3	0,350000	-0,500000	63-1	0,00000
63	0,50000	STR_SLU_2	1	-0,350000	-0,500000	63-1	0,50000
63	1,00000	STR_SLU_2	1	-0,350000	-0,500000	63-1	1,00000
64	0,00000	q1_VAR TRAFF	3	0,350000	-0,500000	64-1	0,00000
64	0,50000	q1_VAR TRAFF	3	0,350000	-0,500000	64-1	0,50000
64	1,00000	q1_VAR TRAFF	3	0,350000	-0,500000	64-1	1,00000
64	0,00000	G1+G2+G3	1	-0,350000	-0,500000	64-1	0,00000
64	0,50000	G1+G2+G3	1	-0,350000	-0,500000	64-1	0,50000
64	1,00000	G1+G2+G3	1	-0,350000	-0,500000	64-1	1,00000
64	0,00000	STR_SLU_1	1	-0,350000	-0,500000	64-1	0,00000
64	0,50000	STR_SLU_1	1	-0,350000	-0,500000	64-1	0,50000
64	1,00000	STR_SLU_1	1	-0,350000	-0,500000	64-1	1,00000
64	0,00000	STR_SLU_2	1	-0,350000	-0,500000	64-1	0,00000
64	0,50000	STR_SLU_2	1	-0,350000	-0,500000	64-1	0,50000
64	1,00000	STR_SLU_2	1	-0,350000	-0,500000	64-1	1,00000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
65	0,00000	q1_VAR TRAFF	3	0,350000	-0,500000	65-1	0,00000
65	0,50000	q1_VAR TRAFF	3	0,350000	-0,500000	65-1	0,50000
65	1,00000	q1_VAR TRAFF	3	0,350000	-0,500000	65-1	1,00000
65	0,00000	G1+G2+G3	1	-0,350000	-0,500000	65-1	0,00000
65	0,50000	G1+G2+G3	1	-0,350000	-0,500000	65-1	0,50000
65	1,00000	G1+G2+G3	1	-0,350000	-0,500000	65-1	1,00000
65	0,00000	STR_SLU_1	1	-0,350000	-0,500000	65-1	0,00000
65	0,50000	STR_SLU_1	1	-0,350000	-0,500000	65-1	0,50000
65	1,00000	STR_SLU_1	1	-0,350000	-0,500000	65-1	1,00000
65	0,00000	STR_SLU_2	1	-0,350000	-0,500000	65-1	0,00000
65	0,50000	STR_SLU_2	1	-0,350000	-0,500000	65-1	0,50000
65	1,00000	STR_SLU_2	1	-0,350000	-0,500000	65-1	1,00000
66	0,00000	q1_VAR TRAFF	3	0,350000	-0,500000	66-1	0,00000
66	0,25000	q1_VAR TRAFF	3	0,350000	-0,500000	66-1	0,25000
66	0,50000	q1_VAR TRAFF	3	0,350000	-0,500000	66-1	0,50000
66	0,00000	G1+G2+G3	1	-0,350000	-0,500000	66-1	0,00000
66	0,25000	G1+G2+G3	1	-0,350000	-0,500000	66-1	0,25000
66	0,50000	G1+G2+G3	1	-0,350000	-0,500000	66-1	0,50000
66	0,00000	STR_SLU_1	1	-0,350000	-0,500000	66-1	0,00000
66	0,25000	STR_SLU_1	1	-0,350000	-0,500000	66-1	0,25000
66	0,50000	STR_SLU_1	1	-0,350000	-0,500000	66-1	0,50000
66	0,00000	STR_SLU_2	1	-0,350000	-0,500000	66-1	0,00000
66	0,25000	STR_SLU_2	1	-0,350000	-0,500000	66-1	0,25000
66	0,50000	STR_SLU_2	1	-0,350000	-0,500000	66-1	0,50000
67	0,00000	q1_VAR TRAFF	3	0,350000	-0,500000	67-1	0,00000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
67	0,22500	q1_VAR TRAFF	3	0,350000	-0,500000	67-1	0,22500
67	0,45000	q1_VAR TRAFF	3	0,350000	-0,500000	67-1	0,45000
67	0,00000	G1+G2+G3	1	-0,350000	-0,500000	67-1	0,00000
67	0,22500	G1+G2+G3	1	-0,350000	-0,500000	67-1	0,22500
67	0,45000	G1+G2+G3	1	-0,350000	-0,500000	67-1	0,45000
67	0,00000	STR_SLU_1	1	-0,350000	-0,500000	67-1	0,00000
67	0,22500	STR_SLU_1	1	-0,350000	-0,500000	67-1	0,22500
67	0,45000	STR_SLU_1	1	-0,350000	-0,500000	67-1	0,45000
67	0,00000	STR_SLU_2	1	-0,350000	-0,500000	67-1	0,00000
67	0,22500	STR_SLU_2	1	-0,350000	-0,500000	67-1	0,22500
67	0,45000	STR_SLU_2	1	-0,350000	-0,500000	67-1	0,45000
68	0,00000	q1_VAR TRAFF	3	0,350000	-0,500000	68-1	0,00000
68	0,17500	q1_VAR TRAFF	3	0,350000	-0,500000	68-1	0,17500
68	0,35000	q1_VAR TRAFF	3	0,350000	-0,500000	68-1	0,35000
68	0,00000	G1+G2+G3	1	-0,350000	-0,500000	68-1	0,00000
68	0,17500	G1+G2+G3	1	-0,350000	-0,500000	68-1	0,17500
68	0,35000	G1+G2+G3	1	-0,350000	-0,500000	68-1	0,35000
68	0,00000	STR_SLU_1	1	-0,350000	-0,500000	68-1	0,00000
68	0,17500	STR_SLU_1	1	-0,350000	-0,500000	68-1	0,17500
68	0,35000	STR_SLU_1	1	-0,350000	-0,500000	68-1	0,35000
68	0,00000	STR_SLU_2	1	-0,350000	-0,500000	68-1	0,00000
68	0,17500	STR_SLU_2	1	-0,350000	-0,500000	68-1	0,17500
68	0,35000	STR_SLU_2	1	-0,350000	-0,500000	68-1	0,35000
69	0,00000	q1_VAR TRAFF	3	0,350000	-0,500000	69-1	0,00000
69	0,50000	q1_VAR TRAFF	3	0,350000	-0,500000	69-1	0,50000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
69	1,00000	q1_VAR TRAFF	3	0,350000	-0,500000	69-1	1,00000
69	0,00000	G1+G2+G3	1	-0,350000	-0,500000	69-1	0,00000
69	0,50000	G1+G2+G3	1	-0,350000	-0,500000	69-1	0,50000
69	1,00000	G1+G2+G3	1	-0,350000	-0,500000	69-1	1,00000
69	0,00000	STR_SLU_1	1	-0,350000	-0,500000	69-1	0,00000
69	0,50000	STR_SLU_1	1	-0,350000	-0,500000	69-1	0,50000
69	1,00000	STR_SLU_1	1	-0,350000	-0,500000	69-1	1,00000
69	0,00000	STR_SLU_2	1	-0,350000	-0,500000	69-1	0,00000
69	0,50000	STR_SLU_2	1	-0,350000	-0,500000	69-1	0,50000
69	1,00000	STR_SLU_2	1	-0,350000	-0,500000	69-1	1,00000
70	0,00000	q1_VAR TRAFF	3	0,350000	-0,500000	70-1	0,00000
70	0,50000	q1_VAR TRAFF	3	0,350000	-0,500000	70-1	0,50000
70	1,00000	q1_VAR TRAFF	3	0,350000	-0,500000	70-1	1,00000
70	0,00000	G1+G2+G3	1	-0,350000	-0,500000	70-1	0,00000
70	0,50000	G1+G2+G3	1	-0,350000	-0,500000	70-1	0,50000
70	1,00000	G1+G2+G3	1	-0,350000	-0,500000	70-1	1,00000
70	0,00000	STR_SLU_1	1	-0,350000	-0,500000	70-1	0,00000
70	0,50000	STR_SLU_1	3	0,350000	-0,500000	70-1	0,50000
70	1,00000	STR_SLU_1	3	0,350000	-0,500000	70-1	1,00000
70	0,00000	STR_SLU_2	1	-0,350000	-0,500000	70-1	0,00000
70	0,50000	STR_SLU_2	1	-0,350000	-0,500000	70-1	0,50000
70	1,00000	STR_SLU_2	1	-0,350000	-0,500000	70-1	1,00000
71	0,00000	q1_VAR TRAFF	3	0,350000	-0,500000	71-1	0,00000
71	0,50000	q1_VAR TRAFF	3	0,350000	-0,500000	71-1	0,50000
71	1,00000	q1_VAR TRAFF	3	0,350000	-0,500000	71-1	1,00000
71	0,00000	G1+G2+G3	1	-0,350000	-0,500000	71-1	0,00000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
71	0,50000	G1+G2+G3	1	-0,350000	-0,500000	71-1	0,50000
71	1,00000	G1+G2+G3	1	-0,350000	-0,500000	71-1	1,00000
71	0,00000	STR_SLU_1	3	0,350000	-0,500000	71-1	0,00000
71	0,50000	STR_SLU_1	3	0,350000	-0,500000	71-1	0,50000
71	1,00000	STR_SLU_1	3	0,350000	-0,500000	71-1	1,00000
71	0,00000	STR_SLU_2	1	-0,350000	-0,500000	71-1	0,00000
71	0,50000	STR_SLU_2	1	-0,350000	-0,500000	71-1	0,50000
71	1,00000	STR_SLU_2	1	-0,350000	-0,500000	71-1	1,00000
72	0,00000	q1_VAR TRAFF	3	0,350000	-0,500000	72-1	0,00000
72	0,50000	q1_VAR TRAFF	3	0,350000	-0,500000	72-1	0,50000
72	1,00000	q1_VAR TRAFF	3	0,350000	-0,500000	72-1	1,00000
72	0,00000	G1+G2+G3	1	-0,350000	-0,500000	72-1	0,00000
72	0,50000	G1+G2+G3	1	-0,350000	-0,500000	72-1	0,50000
72	1,00000	G1+G2+G3	3	0,350000	-0,500000	72-1	1,00000
72	0,00000	STR_SLU_1	3	0,350000	-0,500000	72-1	0,00000
72	0,50000	STR_SLU_1	3	0,350000	-0,500000	72-1	0,50000
72	1,00000	STR_SLU_1	3	0,350000	-0,500000	72-1	1,00000
72	0,00000	STR_SLU_2	1	-0,350000	-0,500000	72-1	0,00000
72	0,50000	STR_SLU_2	1	-0,350000	-0,500000	72-1	0,50000
72	1,00000	STR_SLU_2	1	-0,350000	-0,500000	72-1	1,00000
73	0,00000	q1_VAR TRAFF	3	0,350000	-0,500000	73-1	0,00000
73	0,50000	q1_VAR TRAFF	3	0,350000	-0,500000	73-1	0,50000
73	1,00000	q1_VAR TRAFF	3	0,350000	-0,500000	73-1	1,00000
73	0,00000	G1+G2+G3	3	0,350000	-0,500000	73-1	0,00000
73	0,50000	G1+G2+G3	3	0,350000	-0,500000	73-1	0,50000
73	1,00000	G1+G2+G3	3	0,350000	-0,500000	73-1	1,00000
73	0,00000	STR_SLU_1	3	0,350000	-0,500000	73-1	0,00000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
73	0,50000	STR_SLU_1	3	0,350000	-0,500000	73-1	0,50000
73	1,00000	STR_SLU_1	3	0,350000	-0,500000	73-1	1,00000
73	0,00000	STR_SLU_2	1	-0,350000	-0,500000	73-1	0,00000
73	0,50000	STR_SLU_2	3	0,350000	-0,500000	73-1	0,50000
73	1,00000	STR_SLU_2	3	0,350000	-0,500000	73-1	1,00000
74	0,00000	q1_VAR TRAFF	3	0,350000	-0,500000	74-1	0,00000
74	0,50000	q1_VAR TRAFF	3	0,350000	-0,500000	74-1	0,50000
74	1,00000	q1_VAR TRAFF	3	0,350000	-0,500000	74-1	1,00000
74	0,00000	G1+G2+G3	3	0,350000	-0,500000	74-1	0,00000
74	0,50000	G1+G2+G3	3	0,350000	-0,500000	74-1	0,50000
74	1,00000	G1+G2+G3	3	0,350000	-0,500000	74-1	1,00000
74	0,00000	STR_SLU_1	3	0,350000	-0,500000	74-1	0,00000
74	0,50000	STR_SLU_1	3	0,350000	-0,500000	74-1	0,50000
74	1,00000	STR_SLU_1	3	0,350000	-0,500000	74-1	1,00000
74	0,00000	STR_SLU_2	3	0,350000	-0,500000	74-1	0,00000
74	0,50000	STR_SLU_2	3	0,350000	-0,500000	74-1	0,50000
74	1,00000	STR_SLU_2	3	0,350000	-0,500000	74-1	1,00000
75	0,00000	q1_VAR TRAFF	3	0,350000	-0,500000	75-1	0,00000
75	0,10000	q1_VAR TRAFF	3	0,350000	-0,500000	75-1	0,10000
75	0,20000	q1_VAR TRAFF	3	0,350000	-0,500000	75-1	0,20000
75	0,00000	G1+G2+G3	3	0,350000	-0,500000	75-1	0,00000
75	0,10000	G1+G2+G3	3	0,350000	-0,500000	75-1	0,10000
75	0,20000	G1+G2+G3	3	0,350000	-0,500000	75-1	0,20000
75	0,00000	STR_SLU_1	3	0,350000	-0,500000	75-1	0,00000
75	0,10000	STR_SLU_1	3	0,350000	-0,500000	75-1	0,10000
75	0,20000	STR_SLU_1	3	0,350000	-0,500000	75-1	0,20000
75	0,00000	STR_SLU_2	3	0,350000	-0,500000	75-1	0,00000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
75	0,10000	STR_SLU_2	3	0,350000	-0,500000	75-1	0,10000
75	0,20000	STR_SLU_2	3	0,350000	-0,500000	75-1	0,20000
76	0,00000	q1_VAR TRAFF	3	0,350000	-0,500000	76-1	0,00000
76	0,50000	q1_VAR TRAFF	1	-0,350000	-0,500000	76-1	0,50000
76	1,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	76-1	1,00000
76	0,00000	G1+G2+G3	1	-0,350000	-0,500000	76-1	0,00000
76	0,50000	G1+G2+G3	3	0,350000	-0,500000	76-1	0,50000
76	1,00000	G1+G2+G3	3	0,350000	-0,500000	76-1	1,00000
76	0,00000	STR_SLU_1	1	-0,350000	-0,500000	76-1	0,00000
76	0,50000	STR_SLU_1	3	0,350000	-0,500000	76-1	0,50000
76	1,00000	STR_SLU_1	3	0,350000	-0,500000	76-1	1,00000
76	0,00000	STR_SLU_2	1	-0,350000	-0,500000	76-1	0,00000
76	0,50000	STR_SLU_2	3	0,350000	-0,500000	76-1	0,50000
76	1,00000	STR_SLU_2	3	0,350000	-0,500000	76-1	1,00000
77	0,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	77-1	0,00000
77	0,50000	q1_VAR TRAFF	1	-0,350000	-0,500000	77-1	0,50000
77	1,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	77-1	1,00000
77	0,00000	G1+G2+G3	3	0,350000	-0,500000	77-1	0,00000
77	0,50000	G1+G2+G3	3	0,350000	-0,500000	77-1	0,50000
77	1,00000	G1+G2+G3	3	0,350000	-0,500000	77-1	1,00000
77	0,00000	STR_SLU_1	3	0,350000	-0,500000	77-1	0,00000
77	0,50000	STR_SLU_1	3	0,350000	-0,500000	77-1	0,50000
77	1,00000	STR_SLU_1	3	0,350000	-0,500000	77-1	1,00000
77	0,00000	STR_SLU_2	3	0,350000	-0,500000	77-1	0,00000
77	0,50000	STR_SLU_2	3	0,350000	-0,500000	77-1	0,50000
77	1,00000	STR_SLU_2	3	0,350000	-0,500000	77-1	1,00000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
78	0,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	78-1	0,00000
78	0,50000	q1_VAR TRAFF	1	-0,350000	-0,500000	78-1	0,50000
78	1,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	78-1	1,00000
78	0,00000	G1+G2+G3	3	0,350000	-0,500000	78-1	0,00000
78	0,50000	G1+G2+G3	3	0,350000	-0,500000	78-1	0,50000
78	1,00000	G1+G2+G3	3	0,350000	-0,500000	78-1	1,00000
78	0,00000	STR_SLU_1	3	0,350000	-0,500000	78-1	0,00000
78	0,50000	STR_SLU_1	3	0,350000	-0,500000	78-1	0,50000
78	1,00000	STR_SLU_1	3	0,350000	-0,500000	78-1	1,00000
78	0,00000	STR_SLU_2	3	0,350000	-0,500000	78-1	0,00000
78	0,50000	STR_SLU_2	3	0,350000	-0,500000	78-1	0,50000
78	1,00000	STR_SLU_2	3	0,350000	-0,500000	78-1	1,00000
79	0,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	79-1	0,00000
79	0,25000	q1_VAR TRAFF	1	-0,350000	-0,500000	79-1	0,25000
79	0,50000	q1_VAR TRAFF	1	-0,350000	-0,500000	79-1	0,50000
79	0,00000	G1+G2+G3	3	0,350000	-0,500000	79-1	0,00000
79	0,25000	G1+G2+G3	3	0,350000	-0,500000	79-1	0,25000
79	0,50000	G1+G2+G3	3	0,350000	-0,500000	79-1	0,50000
79	0,00000	STR_SLU_1	3	0,350000	-0,500000	79-1	0,00000
79	0,25000	STR_SLU_1	3	0,350000	-0,500000	79-1	0,25000
79	0,50000	STR_SLU_1	3	0,350000	-0,500000	79-1	0,50000
79	0,00000	STR_SLU_2	3	0,350000	-0,500000	79-1	0,00000
79	0,25000	STR_SLU_2	3	0,350000	-0,500000	79-1	0,25000
79	0,50000	STR_SLU_2	3	0,350000	-0,500000	79-1	0,50000
80	0,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	80-1	0,00000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
80	0,22500	q1_VAR TRAFF	1	-0,350000	-0,500000	80-1	0,22500
80	0,45000	q1_VAR TRAFF	1	-0,350000	-0,500000	80-1	0,45000
80	0,00000	G1+G2+G3	3	0,350000	-0,500000	80-1	0,00000
80	0,22500	G1+G2+G3	3	0,350000	-0,500000	80-1	0,22500
80	0,45000	G1+G2+G3	3	0,350000	-0,500000	80-1	0,45000
80	0,00000	STR_SLU_1	3	0,350000	-0,500000	80-1	0,00000
80	0,22500	STR_SLU_1	3	0,350000	-0,500000	80-1	0,22500
80	0,45000	STR_SLU_1	3	0,350000	-0,500000	80-1	0,45000
80	0,00000	STR_SLU_2	3	0,350000	-0,500000	80-1	0,00000
80	0,22500	STR_SLU_2	3	0,350000	-0,500000	80-1	0,22500
80	0,45000	STR_SLU_2	3	0,350000	-0,500000	80-1	0,45000
81	0,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	81-1	0,00000
81	0,17500	q1_VAR TRAFF	1	-0,350000	-0,500000	81-1	0,17500
81	0,35000	q1_VAR TRAFF	1	-0,350000	-0,500000	81-1	0,35000
81	0,00000	G1+G2+G3	3	0,350000	-0,500000	81-1	0,00000
81	0,17500	G1+G2+G3	3	0,350000	-0,500000	81-1	0,17500
81	0,35000	G1+G2+G3	3	0,350000	-0,500000	81-1	0,35000
81	0,00000	STR_SLU_1	3	0,350000	-0,500000	81-1	0,00000
81	0,17500	STR_SLU_1	3	0,350000	-0,500000	81-1	0,17500
81	0,35000	STR_SLU_1	3	0,350000	-0,500000	81-1	0,35000
81	0,00000	STR_SLU_2	3	0,350000	-0,500000	81-1	0,00000
81	0,17500	STR_SLU_2	3	0,350000	-0,500000	81-1	0,17500
81	0,35000	STR_SLU_2	3	0,350000	-0,500000	81-1	0,35000
82	0,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	82-1	0,00000
82	0,50000	q1_VAR TRAFF	1	-0,350000	-0,500000	82-1	0,50000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
82	1,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	82-1	1,00000
82	0,00000	G1+G2+G3	3	0,350000	-0,500000	82-1	0,00000
82	0,50000	G1+G2+G3	3	0,350000	-0,500000	82-1	0,50000
82	1,00000	G1+G2+G3	3	0,350000	-0,500000	82-1	1,00000
82	0,00000	STR_SLU_1	3	0,350000	-0,500000	82-1	0,00000
82	0,50000	STR_SLU_1	3	0,350000	-0,500000	82-1	0,50000
82	1,00000	STR_SLU_1	3	0,350000	-0,500000	82-1	1,00000
82	0,00000	STR_SLU_2	3	0,350000	-0,500000	82-1	0,00000
82	0,50000	STR_SLU_2	3	0,350000	-0,500000	82-1	0,50000
82	1,00000	STR_SLU_2	3	0,350000	-0,500000	82-1	1,00000
83	0,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	83-1	0,00000
83	0,50000	q1_VAR TRAFF	1	-0,350000	-0,500000	83-1	0,50000
83	1,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	83-1	1,00000
83	0,00000	G1+G2+G3	3	0,350000	-0,500000	83-1	0,00000
83	0,50000	G1+G2+G3	3	0,350000	-0,500000	83-1	0,50000
83	1,00000	G1+G2+G3	3	0,350000	-0,500000	83-1	1,00000
83	0,00000	STR_SLU_1	3	0,350000	-0,500000	83-1	0,00000
83	0,50000	STR_SLU_1	1	-0,350000	-0,500000	83-1	0,50000
83	1,00000	STR_SLU_1	1	-0,350000	-0,500000	83-1	1,00000
83	0,00000	STR_SLU_2	3	0,350000	-0,500000	83-1	0,00000
83	0,50000	STR_SLU_2	3	0,350000	-0,500000	83-1	0,50000
83	1,00000	STR_SLU_2	3	0,350000	-0,500000	83-1	1,00000
84	0,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	84-1	0,00000
84	0,50000	q1_VAR TRAFF	1	-0,350000	-0,500000	84-1	0,50000
84	1,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	84-1	1,00000
84	0,00000	G1+G2+G3	3	0,350000	-0,500000	84-1	0,00000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
84	0,50000	G1+G2+G3	3	0,350000	-0,500000	84-1	0,50000
84	1,00000	G1+G2+G3	3	0,350000	-0,500000	84-1	1,00000
84	0,00000	STR_SLU_1	1	-0,350000	-0,500000	84-1	0,00000
84	0,50000	STR_SLU_1	1	-0,350000	-0,500000	84-1	0,50000
84	1,00000	STR_SLU_1	1	-0,350000	-0,500000	84-1	1,00000
84	0,00000	STR_SLU_2	3	0,350000	-0,500000	84-1	0,00000
84	0,50000	STR_SLU_2	3	0,350000	-0,500000	84-1	0,50000
84	1,00000	STR_SLU_2	3	0,350000	-0,500000	84-1	1,00000
85	0,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	85-1	0,00000
85	0,50000	q1_VAR TRAFF	1	-0,350000	-0,500000	85-1	0,50000
85	1,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	85-1	1,00000
85	0,00000	G1+G2+G3	3	0,350000	-0,500000	85-1	0,00000
85	0,50000	G1+G2+G3	3	0,350000	-0,500000	85-1	0,50000
85	1,00000	G1+G2+G3	1	-0,350000	-0,500000	85-1	1,00000
85	0,00000	STR_SLU_1	1	-0,350000	-0,500000	85-1	0,00000
85	0,50000	STR_SLU_1	1	-0,350000	-0,500000	85-1	0,50000
85	1,00000	STR_SLU_1	1	-0,350000	-0,500000	85-1	1,00000
85	0,00000	STR_SLU_2	3	0,350000	-0,500000	85-1	0,00000
85	0,50000	STR_SLU_2	3	0,350000	-0,500000	85-1	0,50000
85	1,00000	STR_SLU_2	3	0,350000	-0,500000	85-1	1,00000
86	0,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	86-1	0,00000
86	0,50000	q1_VAR TRAFF	1	-0,350000	-0,500000	86-1	0,50000
86	1,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	86-1	1,00000
86	0,00000	G1+G2+G3	1	-0,350000	-0,500000	86-1	0,00000
86	0,50000	G1+G2+G3	1	-0,350000	-0,500000	86-1	0,50000
86	1,00000	G1+G2+G3	1	-0,350000	-0,500000	86-1	1,00000
86	0,00000	STR_SLU_1	1	-0,350000	-0,500000	86-1	0,00000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
86	0,50000	STR_SLU_1	1	-0,350000	-0,500000	86-1	0,50000
86	1,00000	STR_SLU_1	1	-0,350000	-0,500000	86-1	1,00000
86	0,00000	STR_SLU_2	3	0,350000	-0,500000	86-1	0,00000
86	0,50000	STR_SLU_2	1	-0,350000	-0,500000	86-1	0,50000
86	1,00000	STR_SLU_2	1	-0,350000	-0,500000	86-1	1,00000
87	0,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	87-1	0,00000
87	0,50000	q1_VAR TRAFF	1	-0,350000	-0,500000	87-1	0,50000
87	1,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	87-1	1,00000
87	0,00000	G1+G2+G3	1	-0,350000	-0,500000	87-1	0,00000
87	0,50000	G1+G2+G3	1	-0,350000	-0,500000	87-1	0,50000
87	1,00000	G1+G2+G3	1	-0,350000	-0,500000	87-1	1,00000
87	0,00000	STR_SLU_1	1	-0,350000	-0,500000	87-1	0,00000
87	0,50000	STR_SLU_1	1	-0,350000	-0,500000	87-1	0,50000
87	1,00000	STR_SLU_1	1	-0,350000	-0,500000	87-1	1,00000
87	0,00000	STR_SLU_2	1	-0,350000	-0,500000	87-1	0,00000
87	0,50000	STR_SLU_2	1	-0,350000	-0,500000	87-1	0,50000
87	1,00000	STR_SLU_2	1	-0,350000	-0,500000	87-1	1,00000
88	0,00000	q1_VAR TRAFF	1	-0,350000	-0,500000	88-1	0,00000
88	0,10000	q1_VAR TRAFF	1	-0,350000	-0,500000	88-1	0,10000
88	0,20000	q1_VAR TRAFF	1	-0,350000	-0,500000	88-1	0,20000
88	0,00000	G1+G2+G3	1	-0,350000	-0,500000	88-1	0,00000
88	0,10000	G1+G2+G3	1	-0,350000	-0,500000	88-1	0,10000
88	0,20000	G1+G2+G3	1	-0,350000	-0,500000	88-1	0,20000
88	0,00000	STR_SLU_1	1	-0,350000	-0,500000	88-1	0,00000
88	0,10000	STR_SLU_1	1	-0,350000	-0,500000	88-1	0,10000
88	0,20000	STR_SLU_1	1	-0,350000	-0,500000	88-1	0,20000
88	0,00000	STR_SLU_2	1	-0,350000	-0,500000	88-1	0,00000

Table: Element Forces - Frames, Part 3 of 3

Frame	Station	OutputCase	PtS11Min	x2S11Min	x3S11Min	FrameElem	ElemStation
	m			m	m		m
88	0,10000	STR_SLU_2	1	-0,350000	-0,500000	88-1	0,10000
88	0,20000	STR_SLU_2	1	-0,350000	-0,500000	88-1	0,20000

Table: Joint Reactions

Table: Joint Reactions

Joint	OutputCase	CaseType	F1	F2	F3	M1	M2	M3
			KN	KN	KN	KN-m	KN-m	KN-m
86	q1_VAR TRAFF	Combination	-6,675	0,000	0,000	0,0000	0,0000	0,0000
86	G1+G2+G3	Combination	30,545	0,000	0,000	0,0000	0,0000	0,0000
86	STR_SLU_1	Combination	19,217	0,000	0,000	0,0000	0,0000	0,0000
86	STR_SLU_2	Combination	48,391	0,000	0,000	0,0000	0,0000	0,0000
87	q1_VAR TRAFF	Combination	6,694	0,000	0,000	0,0000	0,0000	0,0000
87	G1+G2+G3	Combination	-30,545	0,000	0,000	0,0000	0,0000	0,0000
87	STR_SLU_1	Combination	-19,192	0,000	0,000	0,0000	0,0000	0,0000
87	STR_SLU_2	Combination	-48,391	0,000	0,000	0,0000	0,0000	0,0000
88	q1_VAR TRAFF	Combination	-15,326	0,000	0,000	0,0000	0,0000	0,0000
88	G1+G2+G3	Combination	92,745	0,000	0,000	0,0000	0,0000	0,0000
88	STR_SLU_1	Combination	66,736	0,000	0,000	0,0000	0,0000	0,0000
88	STR_SLU_2	Combination	145,028	0,000	0,000	0,0000	0,0000	0,0000
89	q1_VAR TRAFF	Combination	15,370	0,000	0,000	0,0000	0,0000	0,0000
89	G1+G2+G3	Combination	-92,745	0,000	0,000	0,0000	0,0000	0,0000
89	STR_SLU_1	Combination	-66,678	0,000	0,000	0,0000	0,0000	0,0000
89	STR_SLU_2	Combination	-145,028	0,000	0,000	0,0000	0,0000	0,0000
90	q1_VAR TRAFF	Combination	-17,192	0,000	0,000	0,0000	0,0000	0,0000
90	G1+G2+G3	Combination	153,374	0,000	0,000	0,0000	0,0000	0,0000
90	STR_SLU_1	Combination	124,200	0,000	0,000	0,0000	0,0000	0,0000
90	STR_SLU_2	Combination	236,690	0,000	0,000	0,0000	0,0000	0,0000

Table: Joint Reactions

Joint	OutputCase	CaseType	F1	F2	F3	M1	M2	M3
			KN	KN	KN	KN-m	KN-m	KN-m
91	q1_VAR TRAFF	Combination	17,240	0,000	0,000	0,0000	0,0000	0,0000
91	G1+G2+G3	Combination	-153,374	0,000	0,000	0,0000	0,0000	0,0000
91	STR_SLU_1	Combination	-124,134	0,000	0,000	0,0000	0,0000	0,0000
91	STR_SLU_2	Combination	-236,690	0,000	0,000	0,0000	0,0000	0,0000
92	q1_VAR TRAFF	Combination	-0,127	0,000	0,000	0,0000	0,0000	0,0000
92	G1+G2+G3	Combination	7,319E-12	0,000	0,000	0,0000	0,0000	0,0000
92	STR_SLU_1	Combination	-0,172	0,000	0,000	0,0000	0,0000	0,0000
92	STR_SLU_2	Combination	5,130E-12	0,000	0,000	0,0000	0,0000	0,0000
93	q1_VAR TRAFF	Combination	-6,105	0,000	256,562	0,0000	0,0000	0,0000
93	G1+G2+G3	Combination	105,720	0,000	426,750	0,0000	0,0000	0,0000
93	STR_SLU_1	Combination	95,360	0,000	946,771	0,0000	0,0000	0,0000
93	STR_SLU_2	Combination	160,934	0,000	426,750	0,0000	0,0000	0,0000
94	q1_VAR TRAFF	Combination	6,122	0,000	262,387	0,0000	0,0000	0,0000
94	G1+G2+G3	Combination	-105,720	0,000	426,750	0,0000	0,0000	0,0000
94	STR_SLU_1	Combination	-95,337	0,000	954,635	0,0000	0,0000	0,0000
94	STR_SLU_2	Combination	-160,934	0,000	426,750	0,0000	0,0000	0,0000

7 PASSERELLA CILOPEDONALE L = 23.0 M

Si affronta di seguito il predimensionamento della passerella ciclo-pedonale di lunghezza 23.0 m posta a scavalco della viabilità di nuova realizzazione in prossimità di Via del Macello.

La passerella viene realizzata con struttura mista acciaio-calcestruzzo.

La struttura della passerella è costituita da tre travi metalliche di altezza totale esterna pari a 1.0 m, collegate da traversi realizzati con travi in acciaio ad anima piena.
Il piano dell'impalcato viene realizzato con la posa di lastre predalle prefabbricate in calcestruzzo, ordite tra una trave e l'altra, e da successivo getto collaborante di calcestruzzo.
La soletta ha uno spessore totale pari a 25 cm
La collaborazione tra soletta in c.a. e travi metalliche viene garantita tramite opportuna piolatura.

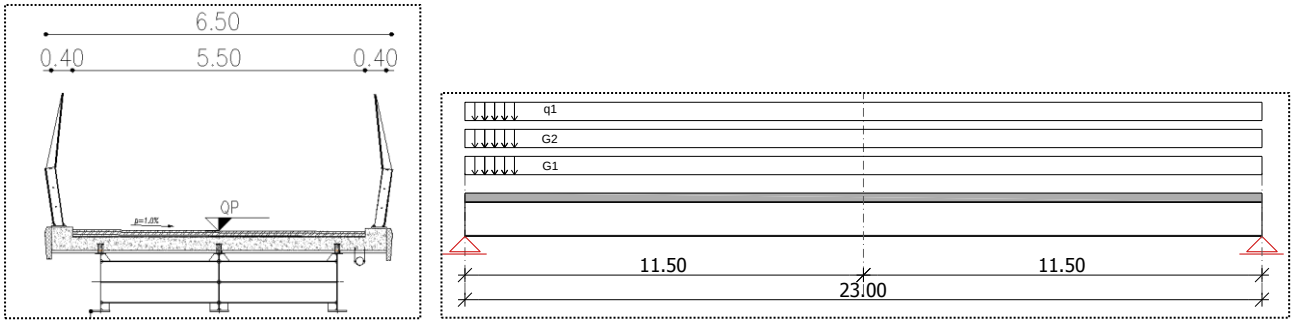
La passerella è classificata come un ponte di 3ª categoria ed è pertanto soggetta ai carichi variabili individuati nello Schema di carico n.5 così come definito in N.T.C. 14.01.2008.

I materiali utilizzati sono:

Classe calcestruzzo soletta =	C 32 / 40
Acciaio carpenteria metallica =	S 355

7.1 Schema di calcolo ed analisi dei carichi

Per la passerella allo studio si considera uno schema statico di trave in semplice appoggio di luce pari a 23.0 m



Carichi permanenti strutturali:

P.p. strutture metalliche		2.00 kN/m2			
G1_PP_ACC	=	2.0*6.5*1.0 =	13.0		kN/m
Getto soletta impalcato		25.0*0.25 =6.25 kN/m2			
G1_PP_SOLETTA	=	6.25*6.5*1.0 =	40.6		kN/m
G1	=			53.6	kN/m

Carichi permanenti portati:

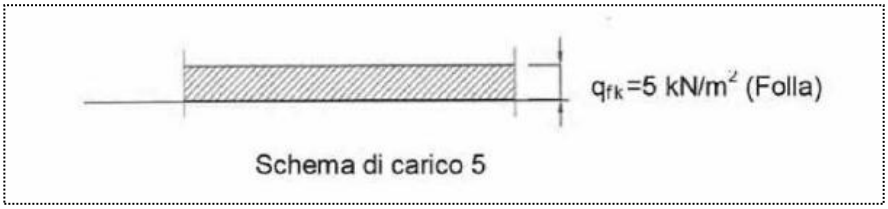
Finiture impalcato		24*0.125 = 3.0 kN/m2			
G2_PAV		= 3.0*5.5*1.0 =		16.5	kN/m
Cordoli, barriere e velette					
cordoli		= 25*2*(0.50*0.171)	= 4.25		
Barriere e velette		2*(2.5*0.3+0.875)	= 3.25		
G2_FIN				7.50	kN/m
G2			=	24.00	kN/m

Carichi variabili dovuti alla folla compatta

Si sono adottati i carichi variabili con riferimento allo schema di carico n.5. come definito nel D.M. 14/01/2008:

Schema di carico variabile 1 (q_1) da adottarsi per verifiche globali:

Si sono adottati i carichi variabili con riferimento allo schema di carico n.5. come definito nel D.M. 14/01/2008:

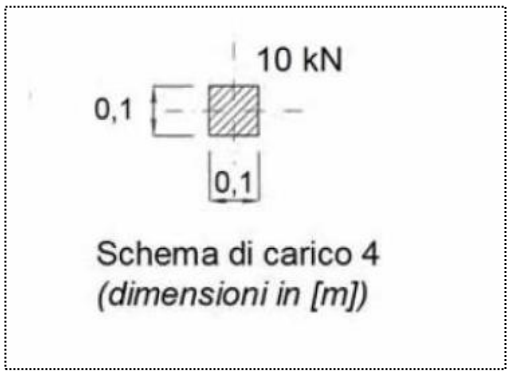


Schema di carico 5

q1 = 5*5.5 = 27.5 kN /m

Schema di carico variabile 2 (q_2) da adottarsi per verifiche locali:

Per le verifiche locali si fa riferimento allo Schema di carico n.4.



Schema di carico 4
(dimensioni in [m])

7.2 Determinazione delle sollecitazioni di verifica

7.2.1 Fase 1 - pesi propri strutturali g1

Con il carico distribuito g1 si considera il contributo dovuto a:

PP_ACC =	13.0	kN / m
PP_soletta =	40.6	kN / m
g1 =	53.6	kN / m

Massimo momento flettente positivo in mezzeria:

M g1 max + = 53.6*23^2*1/8=	3 544.3	kNm
sulla singola trave:		
M g1$_{_trave}$ max + = M g1 max / 3 =	1 181.4	kNm
M g1$_{_trave}$ max SLU + = γ_F * M g1$_{_trave}$ max + = 1.35 * 1 002 =	1 595.0	kNm

Massima azione di taglio:

V g1 max + = 53.6*23*1/2=	616.4	kN
sulla singola trave:		
V g1$_{_trave}$ max + = V g1 max / 3 =	205.5	kN
V g1$_{_trave}$ max SLU + = γ_F * V g1$_{_trave}$ max + = 1.35 * 174.3 =	277.3	kN

7.2.2 Fase 2 - carichi permanenti portati g2

Con il carico distribuito g2 si considera il contributo dovuto a:

G2_PAV = 16.5 kN / m

G2_FIN = 7.50 kN / m

g2 = 24.00 kN / m

Massimo momento flettente positivo in mezzeria:

M g2 max + = $24*23^2*1/8$ = 1 587.0 kNm

sulla singola trave:

M $g2_{\_trave}$ max + = M g2 max / 3 = 529.0 kNm

Amplificazione della sollecitazione per stato limite ultimo SLU:

M $g2_{\_trave}$ max SLU + = γ_F * M $g2_{\_trave}$ max + = 1.35 * 529 = 714.2 kNm

Massima azione di taglio:

V g2 max + = 24.0*23*1/2 = 276.0 kN

sulla singola trave:

V $g2_{\_trave}$ max + = V g2 max / 3 276.0 = 92.0 kN

V $g2_{\_trave}$ max SLU + = γ_F * V $g2_{\_trave}$ max + = 1.35 * 92 = 124.2 kN

7.2.3 Fase 3 - carichi variabili q_1

Con il carico distribuito q_1 si considera il contributo dovuto a:

q_1 = 27.5 kN / m

Massimo momento flettente positivo in mezzeria:

M q_1 max + = $27.5*23^2*1/8$ = 1 818.0 kNm

sulla singola trave:

M $q\_1_{\_trave}$ max + = M q_1 max / 3 = 606.0 kNm

M $q1_{\_trave}$ max SLU + = γ_F * M $q1_{\_trave}$ max + = 1.5 * 606 = 909.0 kNm

Massima azione di taglio:

V q_1 max + = 27.5*23*1/2 = 316.3 kN

sulla singola trave:

V $q\_1_{\_trave}$ max + = V q_1 max / 2 = 105.4 kN

V $q1_{\_trave}$ max SLU + = γ_F * V $q1_{\_trave}$ max + = 1.5 * 105.4 = 158.1 kN

7.3 Verifica di resistenza di tipo STR della trave a sezione composta acciaio-calcestruzzo

Sezione di verifica:

[mm]

PB SUP = 400 * 20

PB INF = 600 * 30

H TOT = 1 000

SP. ANIMA = 10

Larghezza collaborante della soletta in c.a. sp. 25 cm:

b coll = 2 100 mm

Caratteristiche di sezione mista acciaio calcestruzzo

Caratteristiche geometriche

		h altezza cm	b larghezza cm	Aa area cm2
1	armatura superiore soletta			83,0
2	soletta superiore in cls	25,0	210,0	
3	armatura superiore soletta			83,0
4	piattabanda superiore	2,0	40,0	
5	piatto aggiuntivo superiore	1,0	1,0	
6	anima	93,0	1,0	
7	piatto aggiuntivo inferiore	1,0	1,0	
8	piattabanda inferire	3,0	60,0	

Caratteristiche della sezione in acciaio

Htot =	100,0	cm
Atot =	355,0	cm2
Xg=	36,6	cm
J=	623 227,0	cm4
Wa sup -	9 827,7	cm3
Wanim sup -	10 315,7	cm3
Wanim inf	19 126,5	cm3
Wa inf	17 035,3	cm3
Sanim sup	5 054,2	cm3
Sg	6 912,3	cm3
Sanim inf	6 348,3	cm3

Caratteristiche della sezione mista a t= 0

n coeff.omogeneizz.	6,0	
Htot =	125,0	cm
Atot =	1 396,0	cm2
Xg=	93,2	cm
J=	2 209 432,2	cm4
Wcls sup -	416 806,4	cm3
Wcls inf -	1 948 021,5	cm3
Wa sup -	324 670,2	cm3
Wanim sup -	580 641,4	cm3
Wanim inf	24 770,9	cm3
Wa inf	23 707,7	cm3
Sa sup	20 096,7	cm3
Sanim sup	20 565,4	cm3
Sg	20 662,3	cm3
Sanim inf	16 594,8	cm3

Caratteristiche della sezione mista a t= infinito

n coeff.omogeneizz.	18,0	
Htot =	125,0	cm
Atot =	812,7	cm2
Xg=	79,3	cm
J=	1 805 596,8	cm4
Wcls sup -	711 761,1	cm3
Wcls inf -	1 572 939,1	cm3
Wa sup -	87 385,5	cm3
Wanim sup -	102 228,1	cm3
Wanim inf	23 966,8	cm3
Wa inf	22 758,4	cm3
Sa sup	15 177,3	cm3
Sanim sup	16 768,5	cm3
Sg	17 000,3	cm3
Sanim inf	14 086,6	cm3

7.3.1 Verifica a flessione per stato limite ultimo SLU

Verifiche di sezione mista acciaio calcestruzzo

Sollecitazioni nella sezione		SEZ. CAMPATA STR_SLU		x = 11,5 m
	1a fase solo acciaio	2a fase carichi permanenti	3a fase carichi accidentali	
N (kN) =	0,0	0,0	0,0	
$M_{3,y}$ (kNm) =	1 595,0	714,0	909,0	
$V_{2,y}$ (kN) =	0,0	0,0	0,0	

Tensioni	1a fase solo acciaio	2a fase permanenti t= 0	2a fase permanenti t= infinito	ritiro cls t= infinito	totale 1a + 2a fase t= 0	totale 1a + 2a fase t= infinito	-DT variazione termica	3a fase carichi accidentali	totale min	totale max	
s da sforzo N	0,0	0,0	0,0	-	0,0	0,0	-	0,0	0,0	0,0	
Soletta in calcestruzzo											
s c sup	0,0	-17,1	-10,0	-	-17,1	-10,0	-	-21,8	-38,9	-31,8	daN/cm^2
s c inf	0,0	-3,7	-4,5	-	-3,7	-4,5	-	-4,7	-9,2	-8,3	daN/cm^2
Trave in acciaio											
sa sup	-1 623,0	-22,0	-81,7	-	-1 645,0	-1 704,7	-	-28,0	-1 732,7	-1 673,0	daN/cm^2
sanim sup	-1 546,2	-12,3	-69,8	-	-1 558,5	-1 616,0	-	-15,7	-1 631,7	-1 574,1	daN/cm^2
sanim inf	833,9	288,2	297,9	-	1 122,2	1 131,8	-	367,0	1 489,1	1 498,8	daN/cm^2
sa inf	936,3	301,2	313,7	-	1 237,5	1 250,0	-	383,4	1 620,9	1 633,4	daN/cm^2
t a sup	0,0	0,0	0,0		0,0	0,0		0,0	0,0	0,0	daN/cm^2
t anim sup	0,0	0,0	0,0		0,0	0,0		0,0	0,0	0,0	daN/cm^2
t g	0,0	0,0	0,0		0,0	0,0		0,0	0,0	0,0	daN/cm^2
t anim inf	0,0	0,0	0,0		0,0	0,0		0,0	0,0	0,0	daN/cm^2

Tensione soletta calcestruzzo:

$\sigma_{C,\,Ed}$ = - 3.2 MPa

<< f cd = 18.8 MPa Verificato

Tensione piattabanda superiore:

$\sigma_{a,\,Ed}$ = -167.0 MPa

<< fyk / γ_{M0} = 355/1.10 = 322.0 MPa Verificato

Tensione piattabanda inferiore:

$\sigma_{a,\,Ed}$ = 163.4 MPa

<< fyk / γ_{M0} = 355/1.06 = 338.0 MPa Verificato

7.3.2 Verifica a taglio per stato limite ultimo SLU

Verifiche di sezione mista acciaio calcestruzzo

Sollecitazioni nella sezione		SEZ. CAMPATA STR_SLU		x = 11,5 m
	1a fase solo acciaio	2a fase carichi permanenti	3a fase carichi accidentali	
N (kN) =	0,0	0,0	0,0	
$M_{3,y}$ (kNm) =	0,0	0,0	0,0	
$V_{2,y}$ (kN) =	277,3	124,2	158,1	

Tensioni	1a fase solo acciaio	2a fase permanenti t= 0	2a fase permanenti t= infinito	ritiro cls t= infinito	totale 1a + 2a fase t= 0	totale 1a + 2a fase t= infinito	-DT variazione termica	3a fase carichi accidentali	totale min	totale max	
s da sforzo N	0,0	0,0	0,0	-	0,0	0,0	-	0,0	0,0	0,0	
Soletta in calcestruzzo											
s c sup	0,0	0,0	0,0	-	0,0	0,0	-	0,0	0,0	0,0	daN/cm^2
s c inf	0,0	0,0	0,0	-	0,0	0,0	-	0,0	0,0	0,0	daN/cm^2
Trave in acciaio											
sa sup	0,0	0,0	0,0	-	0,0	0,0	-	0,0	0,0	0,0	daN/cm^2
sanim sup	0,0	0,0	0,0	-	0,0	0,0	-	0,0	0,0	0,0	daN/cm^2
sanim inf	0,0	0,0	0,0	-	0,0	0,0	-	0,0	0,0	0,0	daN/cm^2
sa inf	0,0	0,0	0,0	-	0,0	0,0	-	0,0	0,0	0,0	daN/cm^2
t a sup	0,0	2,8	2,6		2,8	2,6		3,6	6,2	6,4	daN/cm^2
t anim sup	224,9	115,6	115,3		340,5	340,2		147,2	487,4	487,6	daN/cm^2
t g	307,6	116,2	116,9		423,7	424,5		147,9	571,6	572,3	daN/cm^2
t anim inf	282,5	93,3	96,9		375,7	379,4		118,7	494,5	498,1	daN/cm^2

Tensione di taglio nell'anima:

τ Ed = *57.2* MPa << fyd = 355 / ((3^0.5*1.05) = 195 MPa Verificato

7.4 Controllo della deformabilità

Freccia dovuta al carico variabile:

q1 singola trave = q1 / 3 = (5.0 * 5.5) / 3 = 9.17 kN / m

J singola trave t = 0

J = 2 209 432 cm4

F = 5/384 * q1 * L4 * 1/E*J =

= 5/384 * 9.17 * 23 0 00^4 * 1 / (210 000 * 2 209 432 * 10^4) = 7.20 mm accettabile