



PONTE SULLO STRETTO DI MESSINA



PROGETTO DEFINITIVO

EUROLINK S.C.p.A.

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<p><i>Unità Funzionale</i></p> <p><i>Tipo di sistema</i></p> <p><i>Raggruppamento di opere/attività</i></p> <p><i>Opera - tratto d'opera - parte d'opera</i></p> <p><i>Titolo del documento</i></p>	<p>COLLEGAMENTI SICILIA</p> <p>INFRASTRUTTURE STRADALI - OPERE CIVILI</p> <p>SVINCOLO ANNUNZIATA</p> <p>VIADOTTO DIREZIONE MESSINA</p> <p>RELAZIONE DI CALCOLO OPERE PROVVISORIALI</p>	<p>SS0765_F0</p>
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1 INTRODUZIONE

Si realizzano opere provvisoriale con micropali affiancati a costituire una berlinese a protezione degli scavi. L'analisi delle sollecitazioni e la verifica dei tubi di armatura è svolta con il codice di calcolo non lineare Plaxis.

1.1 DESCRIZIONE DEL CODICE DI CALCOLO PLAXIS

Lo sviluppo del codice di calcolo PLAXIS è iniziato nel 1987 presso il Politecnico di Delft, su iniziativa del Dutch Department of Public Works and Water Management.

Originariamente concepito come un codice di calcolo agli elementi finiti per l'analisi dei corpi arginali e dei terreni molli dei polders olandesi, è stato successivamente ampliato per coprire la maggior parte delle problematiche di ingegneria geotecnica.

Nel 1993 è stata formata una società, denominata PLAXIS BV, per lo sviluppo continuo del codice di calcolo.

La ricerca e lo sviluppo sono finanziati grazie agli introiti da nuove licenze, ma soprattutto grazie al CUR (Center for Civil Engineering Research and Codes), un consorzio di più di 30 società europee interessate allo strumento di calcolo che forniscono, oltre al supporto economico, anche il necessario collegamento con la realtà applicativa e la validazione sul campo.

Il codice di calcolo è supportato da un valido background scientifico ed il suo standard tecnico è mantenuto costantemente elevato grazie al contributo delle numerose strutture di ricerca che collaborano direttamente allo sviluppo. Tra queste si ricorda la Delft University of Technology (Olanda), l'Institut für Geotechnik di Stoccarda (Germania), l'Università di Oxford (Gran Bretagna), il Massachusetts Institute of Technology (USA), l'Università di Grenoble (Francia), ecc.

1.1.1 *Modellazione del comportamento del terreno*

PLAXIS è un codice di calcolo non lineare agli elementi finiti espressamente concepito per i problemi di ingegneria geotecnica (problemi deformativi e filtrazione/consolidazione nei terreni e nelle rocce).

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Il comportamento meccanico dei terreni può essere descritto attraverso diversi modelli che forniscono approcci più o meno accurati.

1.1.2 *Modello elastico lineare ed elastoplastico lineare*

L'approccio più semplice è quello elastico lineare isotropo, che si basa su due soli parametri, il modulo di Young E e il rapporto di Poisson; il modello elastico lineare, tuttavia, non è sempre valido per trattare i problemi deformativi dei terreni, in particolare quando le deformazioni sono significative.

Un approccio più affine al comportamento reale dei terreni è quello descritto dal modello di Mohr-Coulomb; si tratta di un modello elastoplastico lineare (elastico – perfettamente plastico) che si basa su cinque parametri, di cui due descrittivi il comportamento elastico (E , ν) analogamente al modello lineare, due il comportamento plastico (φ e c , rispettivamente angolo di attrito interno e coesione) ed uno (ψ) la dilatanza del materiale. Tale modello è stato utilizzato nella presente analisi.

1.1.3 *Modello incrudente isotropo*

Per descrivere il comportamento dei terreni coesivi, fortemente dipendente dalla storia tensionale, nel codice PLAXIS è disponibile un modello incrudente, in grado di rappresentare l'incrudimento isotropo del materiale mediante l'espansione della superficie di snervamento descritta alla Mohr-Coulomb. Oltre ai parametri impiegati nel modello Mohr-Coulomb, il modello incrudente necessita di ulteriori parametri descrittivi il comportamento elastico (il modulo E è infatti dipendente dallo stato tensionale), cioè $E_{50,ref}$, modulo di deformazione ricavato da compressione in cella triassiale al 50 % della rottura per una tensione di contenimento di 100 kPa, E_{ur} , modulo di deformazione ricavato da prove di estensione per scarico in cella triassiale, e $E_{oed,ref}$, modulo di deformazione in cella edometrica ricavato sulla curva di compressione vergine.

1.1.4 *Modello viscoplastico*

Per lo studio dei terreni coesivi e, in particolare, dei problemi di deformazione viscosa e di consolidazione si fa riferimento al modello SSC (Soft Soil Creep), la cui principale peculiarità consiste nel tener conto di:

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- rigidezza variabile in funzione del livello di sollecitazione (curva di compressione logaritmica);
- distinzione tra curva di carico e di scarico;
- compressione secondaria viscosa;
- memoria della tensione di preconsolidazione;
- rottura secondo il criterio di Mohr-Coulomb.

Il modello necessita di ulteriori parametri per descrivere il comportamento deformativo dei terreni.

2 **NORMATIVE DI RIFERIMENTO E MATERIALI**

2.1 **NORMATIVA ADOTTATA**

I calcoli delle strutture sono stati eseguiti in base alle seguenti disposizioni:

- Legge 5/11/1971 n° 1086: "Norme per le discipline delle opere di conglomerato cementizio armato normale e precompresso ed a struttura metallica".
- D.M. 04/05/1990: "Aggiornamento delle norme tecniche per la progettazione, la esecuzione e il collaudo dei ponti stradali".
- Ministero LL.PP. 25/02/1991: "Istruzioni relative alla normativa tecnica dei ponti stradali".
- D.M. 9/01/1996: "Norme tecniche per il calcolo, l'esecuzione ed il collaudo delle opere in cemento armato normale e precompresso e per le strutture metalliche".
- D.M. 16/01/1996: Norme tecniche per le costruzioni in zone sismiche.
- C.N.R. - U.N.I. 10011 - 97: "Costruzioni in acciaio. Istruzioni per il calcolo, l'esecuzione, il collaudo e la manutenzione".
- C.N.R. - U.N.I. 10016 - 00: "Travi composte di acciaio e calcestruzzo. Istruzioni per l'impiego nelle costruzioni".
- C.N.R. - U.N.I. 10030 - 87: "Costruzioni in acciaio. Anime irrigidite di travi a parete piena".
- Circ. Min. LL.PP. n° 31104 del 16 marzo 1989 "Istruzioni in merito alle norme tecniche per la progettazione, esecuzione e collaudo delle costruzioni prefabbricate"
- Circ. Min. LL.PP. n° 65 del 10 aprile 1997 "Istruzioni per l'applicazione delle Norme Tecniche per le costruzioni in zone sismiche"
- C.N.R. 10018/99 – "Apparecchi d'appoggio per le costruzioni. Istruzioni per l'impiego"
- Ordinanza del Presidente del Consiglio dei Ministri N° 3274 del 20 marzo 2003. Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di

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normative tecniche per le costruzioni in zona sismica;

- Ordinanza del Presidente del Consiglio dei Ministri del 02/10/2003 N. 3316 – “Modifiche ed integrazioni all’ordinanza del presidente del Consiglio dei Ministri n. 3274 del 20 marzo 2003”
- Ordinanza del Presidente del Consiglio dei Ministri del 02/10/2005 N. 3431 - Ulteriori modifiche e integrazioni alla precedente Ordinanza 3274 del 20 marzo 2003;
- O.P.C.M. n. 3519 28 aprile 2006 - Criteri generali per l'individuazione delle zone sismiche e per la formazione e l'aggiornamento degli elenchi delle medesime zone. (GU n. 108 del 11-5-2006)
- Norma UNI EN 206-1 : 2006 “Calcestruzzo. Parte 1 : specificazione, prestazione, produzione e conformità”
- Norma UNI EN 10025 – 2005 – “Prodotti laminati a caldo di acciai per impieghi strutturali.
- D.M. del 14/01/2008 - “Norme Tecniche per le Costruzioni 2008”

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2.2 MATERIALI

2.2.1 Calcestruzzi (Secondo UNI 11104 - 2004)

Per sottofondazioni

classe di resistenza

C12/15

classe di esposizione

XC0

Cordoli testa opere provvisionali

classe di resistenza

C32/40

modulo elastico

$E_{c\Box} = 36.050 \text{ N/mm}^2$

resistenza caratteristica a compressione cilindrica

$f_{ck} = 33,20 \text{ N/mm}^2$

resistenza media a compressione cilindrica

$f_{cm} = 39,84 \text{ N/mm}^2$

resistenza di calcolo a compressione

$f_{cd} = 18,81 \text{ N/mm}^2$

resistenza a trazione (valore medio)

$f_{ctm} = 3,16 \text{ N/mm}^2$

resistenza caratteristica a trazione

$f_{ctk} = 2,21 \text{ N/mm}^2$

resistenza caratteristica a trazione per flessione

$f_{ctk} = 2,65 \text{ N/mm}^2$

tensione a SLE – combinazione rara

$\sigma_C = 19,92 \text{ N/mm}^2$

tensione a SLE – combinazione quasi permanente

$\sigma_C = 14,94 \text{ N/mm}^2$

copriferro

$C = 40 \text{ mm}$

classe di esposizione

XC2

classe di consistenza slump

S4

max dimensione aggregati

$D_{max} = 32 \text{ mm}$

rapporto A/C massimo

0,50

Per il calcestruzzo ordinario armato si assume il seguente peso per unità di volume:

$$\rho'_{cls} = 25 \text{ kN/m}^3$$

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2.2.2 Acciaio per armature (Secondo NTC 2008 – D.M. 14/01/2008)

		B450C	
tensione caratteristica di snervamento	$f_{yk} =$	450	N/mm ²
tensione caratteristica di rottura	$f_{tk} =$	540	N/mm ²
resistenza di calcolo a trazione	$f_{yd} =$	391,30	N/mm ²
modulo elastico	$E_s =$	206.000	N/mm ²
deformazione caratteristica al carico massimo	$\epsilon_{uk} =$	7,50	%
deformazione di progetto	$\epsilon_{ud} =$	6,75	%
coeff. resistenza a instabilità delle membrature	$\gamma_m =$	1,10	

2.2.3 Acciaio per micropali

Elementi non saldati: acciaio S235 JO (ex 360 C) (UNI EN 10025)

L'acciaio deve essere conforme alle prescrizioni del D.M. 14.01.2008, dovendo presentare le seguenti caratteristiche (Tabella 11.3.IX, D.M. 14.01.2008):

Spessore nominale dell'elemento			
$t \leq 40$		$40 \text{ mm} < t \leq 80 \text{ mm}$	
f_{yk} [MPa]	f_{tk} [MPa]	f_{yk} [MPa]	f_{tk} [MPa]
235	360	215	360

Per la verifica in campo elastico, la resistenza di calcolo dell'acciaio si è assunta pari a :

$$f_{yd} = \frac{f_{yk}}{\gamma_M}$$

essendo

γ_M = coefficiente parziale di sicurezza per la resistenza delle membrature e la stabilità

	Elemento o tipo di verifica	γ_M
Per il materiale	Sezioni di classe 1-2-3-4	$\gamma_{M0} = 1.05$
	Fenomeni di instabilità	$\gamma_{M1} = 1.1$
	Resistenza delle sezioni tese (indebolite dai fori)	$\gamma_{M2} = 1.25$

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Si sono utilizzati i seguenti valori nominali delle proprietà del materiale:

- modulo di elasticità $E = 210000 \text{ N/mm}^2$
- modulo di elasticità tangenziale $G = E / (2 \times (1 + \nu)) = 80769 \text{ N/mm}^2$
- coefficiente di Poisson $\nu = 0.3$
- coefficiente di espansione termica $\alpha = 12 \times 10^{-6} \text{ per } ^\circ\text{C}$
- densità $\rho = 7850 \text{ kg/m}^3$

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3 OPERE PROVVISIONALI

3.1 Generalità

La paratia provvisoria di sostegno dello scavo necessario alla realizzazione delle pile del viadotto svincolo Annunziata, direzione Messina, è stata verificata in accordo alla NTC 2008 ed in particolare:

- Stato Limite d'Esercizio SLE per la verifica degli spostamenti;
- Stato Limite Ultimo SLU-GEO per la verifica di stabilità della paratia;
- Stato Limite Ultimo SLU-STR per la verifica strutturale della paratia;
- Stato Limite Ultimo SLU-V (Sisma) per la verifica di stabilità e strutturale della paratia.

E' stato ipotizzato un carico accidentale pari a 10 kPa dovuto alla eventuale presenza di mezzi d'opera a monte della paratia, tale valore è stato incrementato con coefficienti parziali in accordo alle NTC2008 (1.5 per il caso SLU-STR e 1.3 per il caso SLU-GEO).

La paratia è caratterizzata da un'altezza di scavo di 4 m.

3.1.1 Caratterizzazione geotecnica

Dall'esame del profilo geotecnico le fondazioni dell'opera in esame appaiono intercettare le formazioni di seguito riportate. Si riporta una stratigrafia media, ricostruita in base al profilo stratigrafico longitudinale (elaborato grafico CG0800PFZDSSBC8G000000007B). Si sono riportati i parametri geotecnici di maggiore interesse per i calcoli e le verifiche successivamente eseguite.

Litologia	Da (m da p.c.)	A (m da p.c.)	γ (kN/m ³)	ϕ' (°)	C_u (kPa)	c' (kPa)	E'^{**} [MPa]
Depositi alluvionali	0.0	8.0	18	38*	-	-	$E = (10 \div 25) \cdot (z)^{0.65}$
San Pier Niceto argilloso	8.0	33.0	20	25	350	20	70-120
San Pier Niceto Conglomeratico	33.0	-	21	38	-	-	$E = (20 \div 30) \cdot (z)^{0.7}$

Tab. 3.1.1 – Parametri geotecnici utilizzati

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*valore cautelativo

** modulo di Young "operativo" – si considerano valori nel range per fronti di scavo sostenuti, opere di sostegno tirantate o puntonate; valori al minimo del range per fondazioni dirette, fondazioni su pali e rilevati.

La falda risulta presente nei depositi alluvionali a quota assoluta 150 m s.l.m..

Il valore della componente orizzontale dell'accelerazione equivalente per la verifica SLU-V (sisma) risulta pari a:

$$a_h = \alpha \cdot \beta \cdot a_{max} = 1 \cdot 0.6 \cdot 0.458 \cdot g = 0.2748 \cdot g$$

con

α = coefficiente di deformabilità del terreno

β = coefficiente funzione della capacità dell'opera di subire spostamenti

a_{max} = accelerazione di picco

I valori della tabella 3.1.1 sono stati ridotti con i coefficienti parziali per i parametri geotecnici secondo la NTC2008 nella verifica SLU-GEO.



3.1.2 Caratterizzazione micropali

- Diametro esterno tubolari: 193.7 mm
- Spessore: 14.2 mm
- Acciaio Fe360 (S235)
- Interasse micropali: 0.30 m
- Lunghezza micropali: 12 m

Nel codice di calcolo si è fatto riferimento ad una struttura a "diaframma", di caratteristiche geometriche e rigidezza riassunte nella successiva tabella.

D_{ext}	193.7	mm
Spessore	14.2	mm
E_s A_s	5.761E+06	kN/m
E_s J_s	2.334E+04	kNm ² /ml

Tab. 3.1.2 – Caratteristiche paratia

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3.2 Descrizione delle fasi di scavo

La sequenza costruttiva, schematizzata nel modello, può essere così descritta:

1. Presenza di un sovraccarico accidentale (dovuto ai mezzi d'opera)
2. Realizzazione palificata (schematizzata come un diaframma di spessore e rigidità equivalenti a quelle dei micropali)
3. Completamento scavo

3.3 Risultati

3.3.1 Verifica degli spostamenti SLE

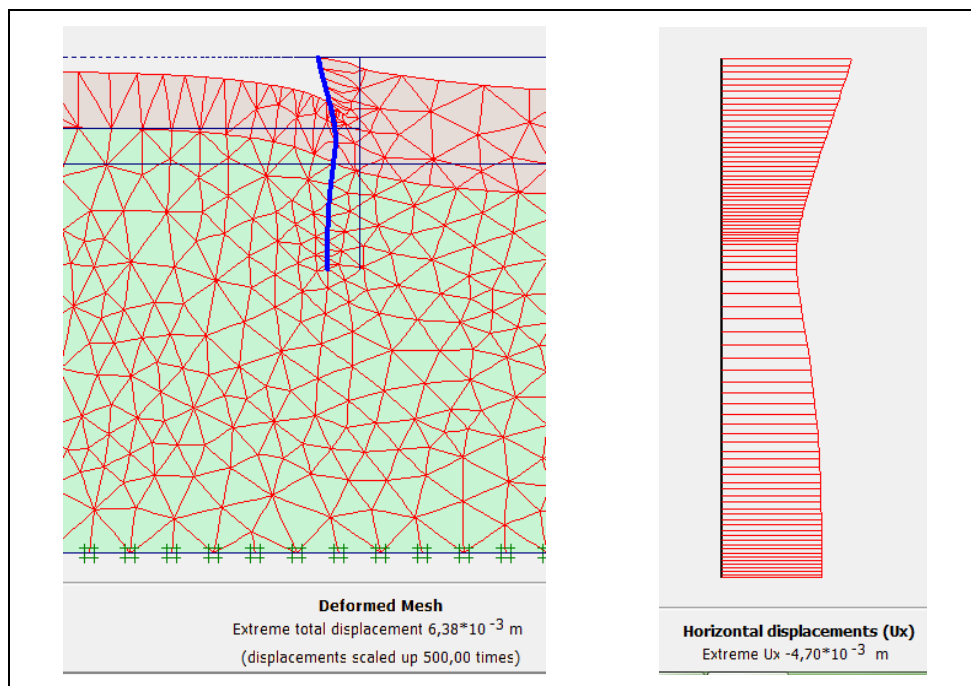




Figura 3.3.1 – Spostamenti totali SLE

Il valore di spostamento massimo orizzontale della paratia risulta pari a circa 0,5 cm, pertanto compatibile con l'opera provvisoria in progetto.

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3.3.2 Verifica di stabilità SLU-GEO

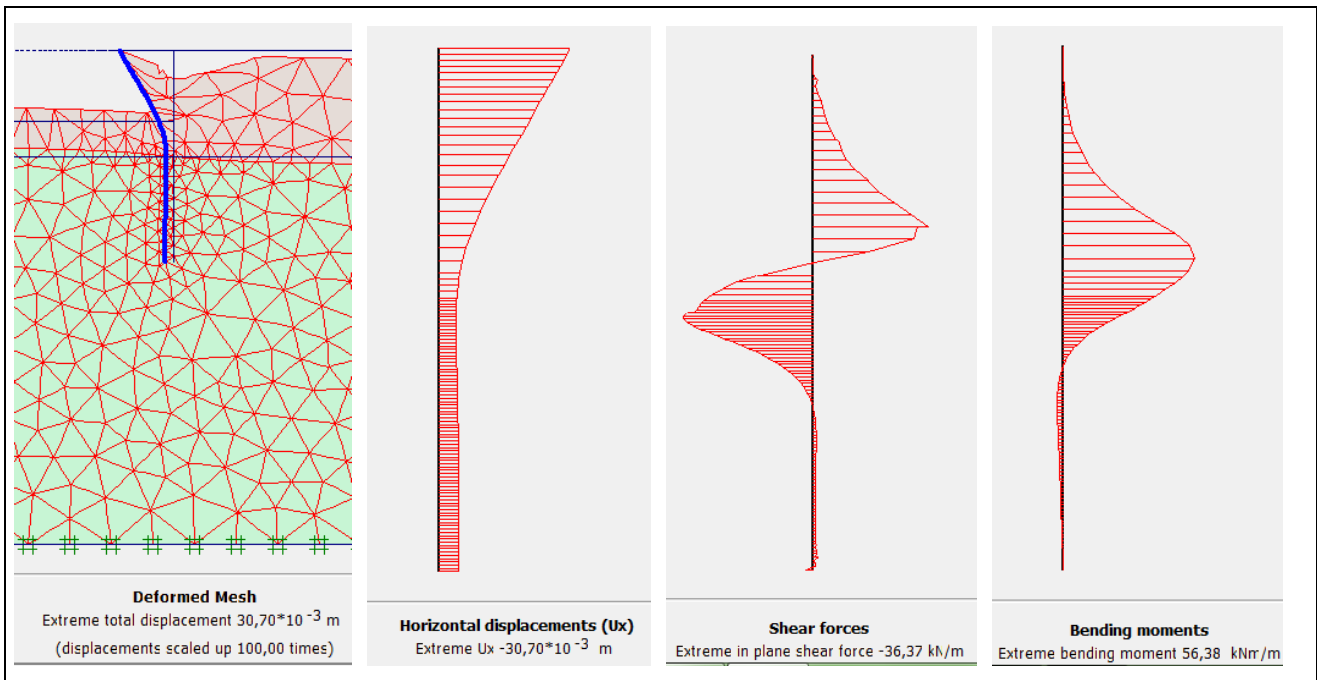




Figura 3.3.2 – Spostamenti, taglio e momento flettente SLU-GEO

Il valore di spostamento massimo orizzontale della paratia risulta pari a circa 3 cm, pertanto compatibile con l'opera provvisoria in progetto.

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3.3.3 Verifica strutturale SLU-STR

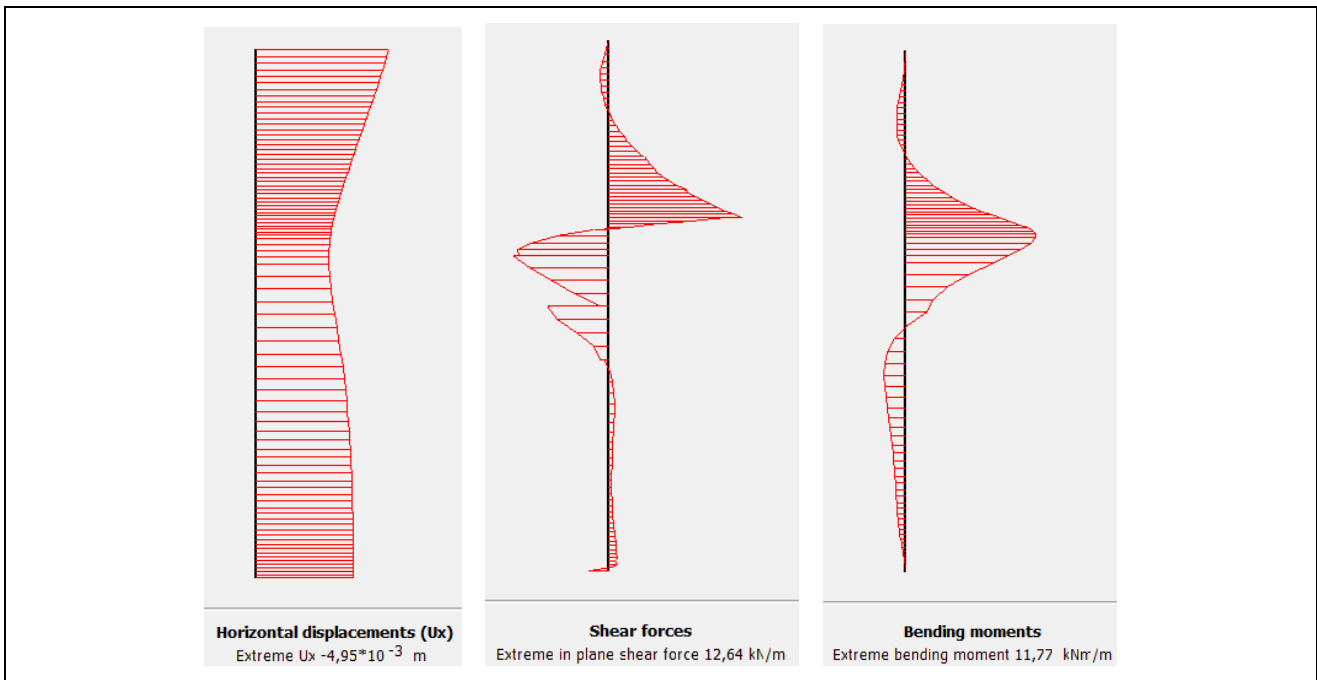


Figura 3.3.3 – Spostamenti, taglio e momento flettente SLU-STR

Verifiche di resistenza dei micropali

La verifica a flessione e taglio è stata eseguita secondo quanto indicato nel capitolo 4 delle NTC 2008.

La sezione tubolare utilizzata rientra in classe 1, essendo $d/t = 13.64 < 50$ $\varepsilon^2=50$, essendo

d: diametro esterno tubolare (193.7 mm)

t: spessore tubolare (14.2 mm)



$$\varepsilon^2: \frac{235}{f_{yk}}$$

Per le sezioni di classe 1 la verifica a flessione può essere condotta nella forma:

$$E_d = \frac{M_{ed}}{W_{pl}} \leq \frac{f_{yk}}{\gamma_{M0}} = R_d$$

dove:

M_{ed} : momento di calcolo agente

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- A: area della sezione (80.1 cm²)
W_{pl}: modulo resistente plastico della sezione (335 cm³)
f_{yk}: tensione di snervamento (235 N/mm²)
γ_{M0}: coefficiente pari a 1.05.

I micropali hanno interasse pari a 30 cm di conseguenza le sollecitazioni vengono ripartite su 3.33 micropali a metro di paratia.

Il modulo di resistenza della paratia è pari a: $W_{pl} = 3,33 \times 335 = 1115.55 \text{ cm}^3/\text{m}$

L'area della sezione resistente della paratia è pari a: $A = 3,33 \times 80.1 = 266.73 \text{ cm}^2/\text{m}$

$$R_D = \frac{235}{1.05} = 223.80 \text{ N/mm}^2$$

$$M_{ed} = 11.77 \text{ kNm/m}$$

$$E_D = \frac{11770000}{1155550} = 10.19 \text{ N/mm}^2$$

Da cui si verifica: $E_d = 10.19 < R_d = 223.8 \text{ N/mm}^2$

La verifica a taglio impone che:

$$V_{ED} \leq V_{C.RD} = \frac{A_V \cdot f_{yk}}{\sqrt{3} \cdot \gamma_{M0}}$$



dove:

V_{ED}: taglio di calcolo agente

A_v: area pari a $\frac{2A}{\pi} = 169.89 \text{ cm}^2$

$$V_{C.RD} = \frac{16989 \cdot 235}{\sqrt{3} \cdot 1.05} = 2195260 \text{ N} = 2195.26 \text{ kN}$$

$$V_{ED} = 12.64 \text{ kN/m}$$

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO					
RELAZIONE DI CALCOLO OPERE PROVVISORIALI		<i>Codice documento</i> SS0765_F0.doc	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><i>Rev</i></td> <td style="width: 50%;"><i>Data</i></td> </tr> <tr> <td>F0</td> <td>20/06/2011</td> </tr> </table>	<i>Rev</i>	<i>Data</i>	F0	20/06/2011
<i>Rev</i>	<i>Data</i>						
F0	20/06/2011						

Da cui si verifica: $V_{ED} = 12.64 < V_{C,RD} = 2195 \text{ kN}$

3.3.4 Verifica strutturale SLU-V (Sisma)

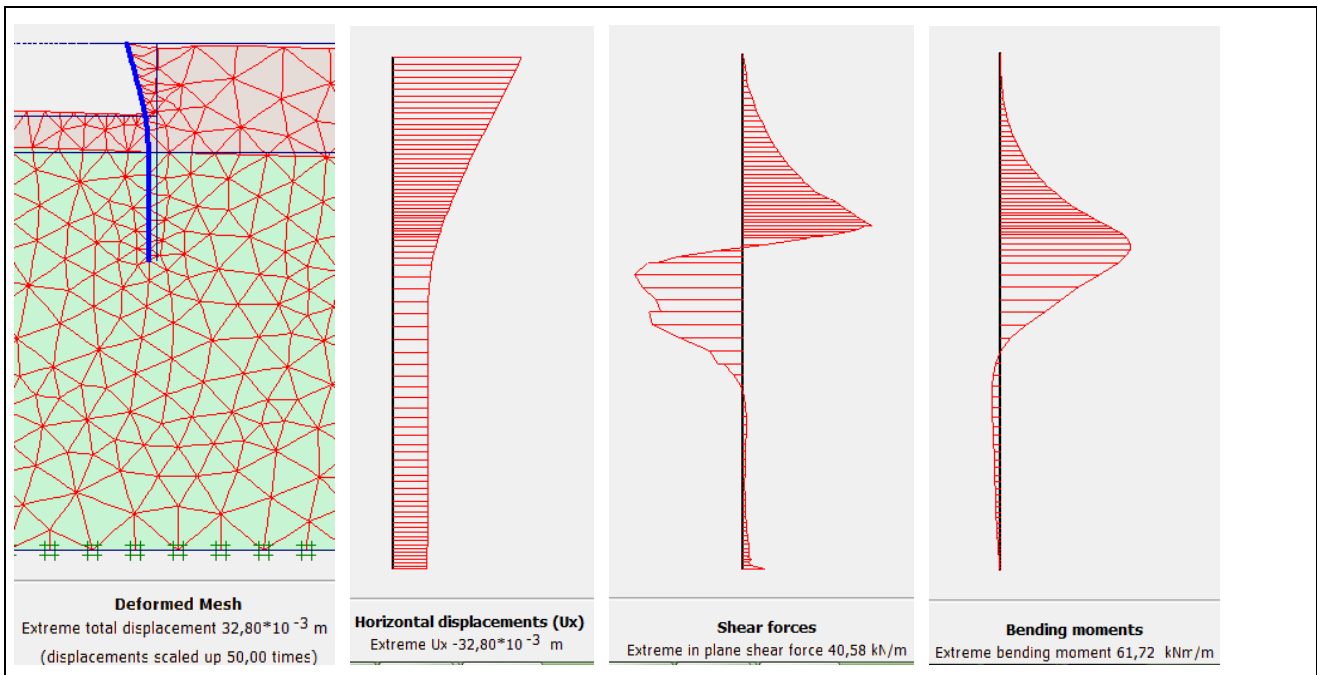


Figura 3.3.4 – Spostamenti, taglio e momento flettente SLU-V (Sisma)

Il valore di spostamento massimo orizzontale della paratia risulta pari a circa 3 cm, pertanto compatibile con l'opera provvisoria in progetto.

Analogamente alle verifiche flessione e taglio del paragrafo 3.3.3 si ottiene:

$$M_{ed} = 61.72 \text{ kNm/m}$$

$$E_D = \frac{61720000}{1155550} = 53.41 \text{ N/mm}^2$$

Da cui si verifica: $E_d = 53.41 < R_d = 223.8 \text{ N/mm}^2$

$$V_{ED} = 40.58 \text{ kN/m}$$

Da cui si verifica: $V_{ED} = 40.58 < V_{C,RD} = 2195 \text{ kN}$

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

4 ALLEGATI: Tabulati di calcolo

SLU GEO

1. General Information

Table [1] Units

Type	Unit
Length	m
Force	kN
Time	day

Table [2] Model dimensions

	min.	max.
X	-20,000	20,000
Y	-20,000	8,000

Table [3] Model

Model	Plane strain
Element	15-Noded

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

2. Structures

Table [4] Beams

Plate no.	Data set	Length [m]	Nodes
1	MICROPALI 193S	12,000	3337, 4235, 5249, 5472.

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO					
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><i>Rev</i></td> <td style="text-align: center;"><i>Data</i></td> </tr> <tr> <td style="text-align: center;">F0</td> <td style="text-align: center;">20/06/2011</td> </tr> </table>	<i>Rev</i>	<i>Data</i>	F0	20/06/2011
<i>Rev</i>	<i>Data</i>						
F0	20/06/2011						

3. Material data

Table [5] Soil data sets parameters

Mohr-Coulomb		1	2
		GHIAIE	Argilla
Type		Drained	Undrained
γ_{unsat}	[kN/m ³]	18,00	20,00
γ_{sat}	[kN/m ³]	18,00	20,00
k_x	[m/day]	1,000	0,000
k_y	[m/day]	1,000	0,000
e_{init}	[-]	1,000	0,500
c_k	[-]	1E15	1E15
E_{ref}	[kN/m ²]	40000,000	75000,000
ν	[-]	0,300	0,300
G_{ref}	[kN/m ²]	15384,615	28846,154
E_{oed}	[kN/m ²]	53846,154	100961,538
c_{ref}	[kN/m ²]	0,00	16,00
ϕ	[°]	27,50	20,50
ψ	[°]	0,00	0,00
E_{inc}	[kN/m ² /m]	0,00	0,00
y_{ref}	[m]	0,000	0,000
$c_{increment}$	[kN/m ² /m]	0,00	0,00
$T_{str.}$	[kN/m ²]	0,00	0,00
$R_{inter.}$	[-]	1,00	1,00
Interface permeability		Neutral	Neutral

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Table [6] Beam data sets parameters

No.	Identification	EA [kN/m]	EI [kNm ² /m]	w [kN/m/m]	v [-]	Mp [kNm/m]	Np [kN/m]
1	MICROPALI 193	5,121E6	21100,00	1,86	0,20	1E15	1E15
2	MICROPALI 219	5,78E6	3,126E8	2,12	0,20	1E15	1E15
3	MICROPALI 193S	5,7614E6	23341,00	2,10	0,20	1E15	1E15

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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4. Calculation phases

Table [7] List of phases

Phase	Ph-No.	Start phase	Calculation type	Load input	First step	Last step
Initial phase	0	0		-	0	0
CARICO	1	0	Plastic	Staged construction	1	2
MICROPALI	2	1	Plastic	Staged construction	3	4
SCAVO	3	2	Plastic	Staged construction	5	36

Table [8] Staged construction info

Ph-No.	Active clusters	Inactive clusters	Active beams	Active geotextiles	Active anchors
0	1, 2, 3, 4.				
1	1, 2, 3, 4.				
2	1, 2, 3, 4.		1.		
3	1, 2, 4.	3.	1.		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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5. Results for phase

Table [9] Table of deformations phase no: 0

Node No.	x-coord.	y-coord.	dUx [10⁻¹⁵ m]	Ux [10⁻¹⁵ m]	dUy [10⁻¹⁵ m]	Uy [10⁻¹⁵ m]
4	-20,000	-10,833	0,000	0,000	0,000	0,000
5	-20,000	-11,444	0,000	0,000	0,000	0,000
6	-20,000	-12,056	0,000	0,000	0,000	0,000
19	-20,000	-13,278	0,000	0,000	0,000	0,000
20	-20,000	-13,889	0,000	0,000	0,000	0,000
21	-20,000	-14,500	0,000	0,000	0,000	0,000
28	-20,000	-12,667	0,000	0,000	0,000	0,000
29	-20,000	-15,111	0,000	0,000	0,000	0,000
33	-20,000	-15,722	0,000	0,000	0,000	0,000
34	-20,000	-16,333	0,000	0,000	0,000	0,000
35	-20,000	-16,944	0,000	0,000	0,000	0,000
51	-20,000	-17,556	0,000	0,000	0,000	0,000
52	-20,000	-20,000	0,000	0,000	0,000	0,000
53	-19,412	-20,000	0,000	0,000	0,000	0,000
54	-18,824	-20,000	0,000	0,000	0,000	0,000
55	-18,235	-20,000	0,000	0,000	0,000	0,000
59	-20,000	-18,167	0,000	0,000	0,000	0,000
60	-20,000	-18,778	0,000	0,000	0,000	0,000
61	-20,000	-19,389	0,000	0,000	0,000	0,000
96	-20,000	-10,222	0,000	0,000	0,000	0,000
97	-20,000	-8,389	0,000	0,000	0,000	0,000
98	-20,000	-9,000	0,000	0,000	0,000	0,000
99	-20,000	-9,611	0,000	0,000	0,000	0,000
135	-20,000	-7,778	0,000	0,000	0,000	0,000
139	-20,000	-5,944	0,000	0,000	0,000	0,000
140	-20,000	-6,556	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
141	-20,000	-7,167	0,000	0,000	0,000	0,000
167	-17,647	-20,000	0,000	0,000	0,000	0,000
171	-17,059	-20,000	0,000	0,000	0,000	0,000
172	-16,471	-20,000	0,000	0,000	0,000	0,000
173	-15,882	-20,000	0,000	0,000	0,000	0,000
217	-20,000	-5,333	0,000	0,000	0,000	0,000
221	-20,000	-3,500	0,000	0,000	0,000	0,000
222	-20,000	-4,111	0,000	0,000	0,000	0,000
223	-20,000	-4,722	0,000	0,000	0,000	0,000
285	-15,294	-20,000	0,000	0,000	0,000	0,000
289	-14,706	-20,000	0,000	0,000	0,000	0,000
290	-14,118	-20,000	0,000	0,000	0,000	0,000
291	-13,529	-20,000	0,000	0,000	0,000	0,000
407	-20,000	-2,889	0,000	0,000	0,000	0,000
411	-20,000	-1,056	0,000	0,000	0,000	0,000
412	-20,000	-1,667	0,000	0,000	0,000	0,000
413	-20,000	-2,278	0,000	0,000	0,000	0,000
451	-12,941	-20,000	0,000	0,000	0,000	0,000
455	-12,353	-20,000	0,000	0,000	0,000	0,000
456	-11,765	-20,000	0,000	0,000	0,000	0,000
457	-11,176	-20,000	0,000	0,000	0,000	0,000
551	-20,000	-0,444	0,000	0,000	0,000	0,000
555	-20,000	1,389	0,000	0,000	0,000	0,000
556	-20,000	0,778	0,000	0,000	0,000	0,000
557	-20,000	0,167	0,000	0,000	0,000	0,000
561	-10,588	-20,000	0,000	0,000	0,000	0,000
565	-10,000	-20,000	0,000	0,000	0,000	0,000
566	-9,412	-20,000	0,000	0,000	0,000	0,000
567	-8,824	-20,000	0,000	0,000	0,000	0,000
785	-8,235	-20,000	0,000	0,000	0,000	0,000
789	-7,647	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
790	-7,059	-20,000	0,000	0,000	0,000	0,000
791	-6,471	-20,000	0,000	0,000	0,000	0,000
833	-16,095	2,000	0,000	0,000	0,000	0,000
834	-16,619	2,000	0,000	0,000	0,000	0,000
835	-17,142	2,000	0,000	0,000	0,000	0,000
839	-18,249	2,000	0,000	0,000	0,000	0,000
840	-18,833	2,000	0,000	0,000	0,000	0,000
841	-19,416	2,000	0,000	0,000	0,000	0,000
845	-17,665	2,000	0,000	0,000	0,000	0,000
855	-20,000	2,000	0,000	0,000	0,000	0,000
856	-20,000	3,500	0,000	0,000	0,000	0,000
857	-20,000	3,000	0,000	0,000	0,000	0,000
858	-20,000	2,500	0,000	0,000	0,000	0,000
865	-20,000	4,000	0,000	0,000	0,000	0,000
866	-18,273	4,000	0,000	0,000	0,000	0,000
867	-18,849	4,000	0,000	0,000	0,000	0,000
868	-19,424	4,000	0,000	0,000	0,000	0,000
869	-20,000	5,500	0,000	0,000	0,000	0,000
870	-20,000	5,000	0,000	0,000	0,000	0,000
871	-20,000	4,500	0,000	0,000	0,000	0,000
875	-5,882	-20,000	0,000	0,000	0,000	0,000
879	-5,294	-20,000	0,000	0,000	0,000	0,000
880	-4,706	-20,000	0,000	0,000	0,000	0,000
881	-4,118	-20,000	0,000	0,000	0,000	0,000
919	-20,000	6,000	0,000	0,000	0,000	0,000
923	-20,000	8,000	0,000	0,000	0,000	0,000
924	-20,000	7,500	0,000	0,000	0,000	0,000
925	-20,000	7,000	0,000	0,000	0,000	0,000
926	-20,000	6,500	0,000	0,000	0,000	0,000
927	-18,285	8,000	0,000	0,000	0,000	0,000
928	-18,857	8,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
929	-19,428	8,000	0,000	0,000	0,000	0,000
1051	-15,572	2,000	0,000	0,000	0,000	0,000
1052	-14,165	2,000	0,000	0,000	0,000	0,000
1053	-14,634	2,000	0,000	0,000	0,000	0,000
1054	-15,103	2,000	0,000	0,000	0,000	0,000
1061	-16,077	4,000	0,000	0,000	0,000	0,000
1062	-16,617	4,000	0,000	0,000	0,000	0,000
1063	-17,157	4,000	0,000	0,000	0,000	0,000
1067	-17,698	4,000	0,000	0,000	0,000	0,000
1077	-15,536	4,000	0,000	0,000	0,000	0,000
1078	-14,014	4,000	0,000	0,000	0,000	0,000
1079	-14,521	4,000	0,000	0,000	0,000	0,000
1080	-15,029	4,000	0,000	0,000	0,000	0,000
1119	-13,696	2,000	0,000	0,000	0,000	0,000
1123	-12,435	2,000	0,000	0,000	0,000	0,000
1124	-12,855	2,000	0,000	0,000	0,000	0,000
1125	-13,276	2,000	0,000	0,000	0,000	0,000
1173	-3,529	-20,000	0,000	0,000	0,000	0,000
1177	-2,941	-20,000	0,000	0,000	0,000	0,000
1178	-2,353	-20,000	0,000	0,000	0,000	0,000
1179	-1,765	-20,000	0,000	0,000	0,000	0,000
1212	-17,713	8,000	0,000	0,000	0,000	0,000
1213	-16,150	8,000	0,000	0,000	0,000	0,000
1214	-16,671	8,000	0,000	0,000	0,000	0,000
1215	-17,192	8,000	0,000	0,000	0,000	0,000
1219	-1,176	-20,000	0,000	0,000	0,000	0,000
1223	-0,588	-20,000	0,000	0,000	0,000	0,000
1224	0,000	-20,000	0,000	0,000	0,000	0,000
1225	0,588	-20,000	0,000	0,000	0,000	0,000
1238	-15,628	8,000	0,000	0,000	0,000	0,000
1239	-14,203	8,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
1240	-14,678	8,000	0,000	0,000	0,000	0,000
1241	-15,153	8,000	0,000	0,000	0,000	0,000
1421	-13,507	4,000	0,000	0,000	0,000	0,000
1422	-12,077	4,000	0,000	0,000	0,000	0,000
1423	-12,554	4,000	0,000	0,000	0,000	0,000
1424	-13,030	4,000	0,000	0,000	0,000	0,000
1469	-12,015	2,000	0,000	0,000	0,000	0,000
1473	-10,884	2,000	0,000	0,000	0,000	0,000
1474	-11,261	2,000	0,000	0,000	0,000	0,000
1475	-11,638	2,000	0,000	0,000	0,000	0,000
1495	-13,727	8,000	0,000	0,000	0,000	0,000
1499	-12,428	8,000	0,000	0,000	0,000	0,000
1500	-12,861	8,000	0,000	0,000	0,000	0,000
1501	-13,294	8,000	0,000	0,000	0,000	0,000
1539	1,176	-20,000	0,000	0,000	0,000	0,000
1543	1,765	-20,000	0,000	0,000	0,000	0,000
1544	2,353	-20,000	0,000	0,000	0,000	0,000
1545	2,941	-20,000	0,000	0,000	0,000	0,000
1593	-11,601	4,000	0,000	0,000	0,000	0,000
1597	-11,154	4,000	0,000	0,000	0,000	0,000
1598	-10,706	4,000	0,000	0,000	0,000	0,000
1599	-10,259	4,000	0,000	0,000	0,000	0,000
1667	-10,508	2,000	0,000	0,000	0,000	0,000
1668	-9,494	2,000	0,000	0,000	0,000	0,000
1669	-9,832	2,000	0,000	0,000	0,000	0,000
1670	-10,170	2,000	0,000	0,000	0,000	0,000
1747	3,529	-20,000	0,000	0,000	0,000	0,000
1751	4,118	-20,000	0,000	0,000	0,000	0,000
1752	4,706	-20,000	0,000	0,000	0,000	0,000
1753	5,294	-20,000	0,000	0,000	0,000	0,000
1773	-11,994	8,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011



Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
1777	-10,809	8,000	0,000	0,000	0,000	0,000
1778	-11,204	8,000	0,000	0,000	0,000	0,000
1779	-11,599	8,000	0,000	0,000	0,000	0,000
2063	-9,157	2,000	0,000	0,000	0,000	0,000
2067	-8,248	2,000	0,000	0,000	0,000	0,000
2068	-8,551	2,000	0,000	0,000	0,000	0,000
2069	-8,854	2,000	0,000	0,000	0,000	0,000
2073	-7,946	2,000	0,000	0,000	0,000	0,000
2077	-7,132	2,000	0,000	0,000	0,000	0,000
2078	-7,403	2,000	0,000	0,000	0,000	0,000
2079	-7,674	2,000	0,000	0,000	0,000	0,000
2083	-10,414	8,000	0,000	0,000	0,000	0,000
2087	-9,334	8,000	0,000	0,000	0,000	0,000
2088	-9,694	8,000	0,000	0,000	0,000	0,000
2089	-10,054	8,000	0,000	0,000	0,000	0,000
2115	5,882	-20,000	0,000	0,000	0,000	0,000
2116	6,471	-20,000	0,000	0,000	0,000	0,000
2117	7,059	-20,000	0,000	0,000	0,000	0,000
2118	7,647	-20,000	0,000	0,000	0,000	0,000
2215	-8,552	4,000	0,000	0,000	0,000	0,000
2216	-8,972	4,000	0,000	0,000	0,000	0,000
2217	-9,392	4,000	0,000	0,000	0,000	0,000
2221	-9,812	4,000	0,000	0,000	0,000	0,000
2275	-8,974	8,000	0,000	0,000	0,000	0,000
2279	-7,989	8,000	0,000	0,000	0,000	0,000
2280	-8,317	8,000	0,000	0,000	0,000	0,000
2281	-8,645	8,000	0,000	0,000	0,000	0,000
2423	-8,132	4,000	0,000	0,000	0,000	0,000
2427	-6,949	4,000	0,000	0,000	0,000	0,000
2428	-7,343	4,000	0,000	0,000	0,000	0,000
2429	-7,737	4,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
2433	-6,860	2,000	0,000	0,000	0,000	0,000
2434	-6,131	2,000	0,000	0,000	0,000	0,000
2435	-6,374	2,000	0,000	0,000	0,000	0,000
2436	-6,617	2,000	0,000	0,000	0,000	0,000
2517	8,235	-20,000	0,000	0,000	0,000	0,000
2521	8,824	-20,000	0,000	0,000	0,000	0,000
2522	9,412	-20,000	0,000	0,000	0,000	0,000
2523	10,000	-20,000	0,000	0,000	0,000	0,000
2559	-5,234	2,000	0,000	0,000	0,000	0,000
2560	-5,452	2,000	0,000	0,000	0,000	0,000
2561	-5,670	2,000	0,000	0,000	0,000	0,000
2565	-5,888	2,000	0,000	0,000	0,000	0,000
2581	-5,016	2,000	0,000	0,000	0,000	0,000
2585	-4,429	2,000	0,000	0,000	0,000	0,000
2586	-4,625	2,000	0,000	0,000	0,000	0,000
2587	-4,820	2,000	0,000	0,000	0,000	0,000
2709	-7,660	8,000	0,000	0,000	0,000	0,000
2713	-6,762	8,000	0,000	0,000	0,000	0,000
2714	-7,062	8,000	0,000	0,000	0,000	0,000
2715	-7,361	8,000	0,000	0,000	0,000	0,000
2805	-6,463	8,000	0,000	0,000	0,000	0,000
2809	-5,644	8,000	0,000	0,000	0,000	0,000
2810	-5,917	8,000	0,000	0,000	0,000	0,000
2811	-6,190	8,000	0,000	0,000	0,000	0,000
2999	10,588	-20,000	0,000	0,000	0,000	0,000
3003	11,176	-20,000	0,000	0,000	0,000	0,000
3004	11,765	-20,000	0,000	0,000	0,000	0,000
3005	12,353	-20,000	0,000	0,000	0,000	0,000
3115	-6,554	4,000	0,000	0,000	0,000	0,000
3116	-5,444	4,000	0,000	0,000	0,000	0,000
3117	-5,814	4,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
3118	-6,184	4,000	0,000	0,000	0,000	0,000
3151	-3,709	2,000	0,000	0,000	0,000	0,000
3152	-3,884	2,000	0,000	0,000	0,000	0,000
3153	-4,059	2,000	0,000	0,000	0,000	0,000
3157	-4,234	2,000	0,000	0,000	0,000	0,000
3173	-3,534	2,000	0,000	0,000	0,000	0,000
3177	-3,063	2,000	0,000	0,000	0,000	0,000
3178	-3,220	2,000	0,000	0,000	0,000	0,000
3179	-3,377	2,000	0,000	0,000	0,000	0,000
3199	0,000	-3,325	0,000	0,000	0,000	0,000
3200	0,000	-3,250	0,000	0,000	0,000	0,000
3201	0,000	-3,175	0,000	0,000	0,000	0,000
3205	0,000	-3,100	0,000	0,000	0,000	0,000
3206	0,000	-3,025	0,000	0,000	0,000	0,000
3207	0,000	-2,950	0,000	0,000	0,000	0,000
3208	0,000	-2,875	0,000	0,000	0,000	0,000
3215	0,000	-3,625	0,000	0,000	0,000	0,000
3216	0,000	-3,550	0,000	0,000	0,000	0,000
3217	0,000	-3,475	0,000	0,000	0,000	0,000
3221	0,000	-3,400	0,000	0,000	0,000	0,000
3231	0,000	-3,700	0,000	0,000	0,000	0,000
3232	0,000	-3,925	0,000	0,000	0,000	0,000
3233	0,000	-3,850	0,000	0,000	0,000	0,000
3234	0,000	-3,775	0,000	0,000	0,000	0,000
3289	0,000	-2,425	0,000	0,000	0,000	0,000
3290	0,000	-2,350	0,000	0,000	0,000	0,000
3291	0,000	-2,275	0,000	0,000	0,000	0,000
3295	0,000	-2,500	0,000	0,000	0,000	0,000
3296	0,000	-2,725	0,000	0,000	0,000	0,000
3297	0,000	-2,650	0,000	0,000	0,000	0,000
3298	0,000	-2,575	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
3305	0,000	-2,800	0,000	0,000	0,000	0,000
3315	0,000	-2,125	0,000	0,000	0,000	0,000
3316	0,000	-2,050	0,000	0,000	0,000	0,000
3317	0,000	-1,975	0,000	0,000	0,000	0,000
3321	0,000	-2,200	0,000	0,000	0,000	0,000
3337	0,000	-4,000	0,000	0,000	0,000	0,000
3403	-5,073	4,000	0,000	0,000	0,000	0,000
3407	-4,030	4,000	0,000	0,000	0,000	0,000
3408	-4,378	4,000	0,000	0,000	0,000	0,000
3409	-4,726	4,000	0,000	0,000	0,000	0,000
3429	-5,371	8,000	0,000	0,000	0,000	0,000
3433	-4,625	8,000	0,000	0,000	0,000	0,000
3434	-4,873	8,000	0,000	0,000	0,000	0,000
3435	-5,122	8,000	0,000	0,000	0,000	0,000
3439	12,941	-20,000	0,000	0,000	0,000	0,000
3443	13,529	-20,000	0,000	0,000	0,000	0,000
3444	14,118	-20,000	0,000	0,000	0,000	0,000
3445	14,706	-20,000	0,000	0,000	0,000	0,000
3513	0,000	-1,525	0,000	0,000	0,000	0,000
3514	0,000	-1,450	0,000	0,000	0,000	0,000
3515	0,000	-1,375	0,000	0,000	0,000	0,000
3519	0,000	-1,600	0,000	0,000	0,000	0,000
3520	0,000	-1,825	0,000	0,000	0,000	0,000
3521	0,000	-1,750	0,000	0,000	0,000	0,000
3522	0,000	-1,675	0,000	0,000	0,000	0,000
3529	0,000	-1,900	0,000	0,000	0,000	0,000
3561	-4,376	8,000	0,000	0,000	0,000	0,000
3565	-3,695	8,000	0,000	0,000	0,000	0,000
3566	-3,922	8,000	0,000	0,000	0,000	0,000
3567	-4,149	8,000	0,000	0,000	0,000	0,000
3625	0,000	0,875	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
3626	0,000	0,950	0,000	0,000	0,000	0,000
3627	0,000	1,025	0,000	0,000	0,000	0,000
3631	0,000	1,100	0,000	0,000	0,000	0,000
3632	0,000	1,175	0,000	0,000	0,000	0,000
3633	0,000	1,250	0,000	0,000	0,000	0,000
3634	0,000	1,325	0,000	0,000	0,000	0,000
3657	0,000	1,400	0,000	0,000	0,000	0,000
3658	0,000	1,475	0,000	0,000	0,000	0,000
3659	0,000	1,550	0,000	0,000	0,000	0,000
3660	0,000	1,625	0,000	0,000	0,000	0,000
3731	-2,483	2,000	0,000	0,000	0,000	0,000
3732	-2,624	2,000	0,000	0,000	0,000	0,000
3733	-2,765	2,000	0,000	0,000	0,000	0,000
3734	-2,906	2,000	0,000	0,000	0,000	0,000
3741	-2,343	2,000	0,000	0,000	0,000	0,000
3742	-1,964	2,000	0,000	0,000	0,000	0,000
3743	-2,091	2,000	0,000	0,000	0,000	0,000
3744	-2,217	2,000	0,000	0,000	0,000	0,000
3787	-1,499	2,000	0,000	0,000	0,000	0,000
3788	-1,612	2,000	0,000	0,000	0,000	0,000
3789	-1,725	2,000	0,000	0,000	0,000	0,000
3793	-1,386	2,000	0,000	0,000	0,000	0,000
3794	-1,082	2,000	0,000	0,000	0,000	0,000
3795	-1,183	2,000	0,000	0,000	0,000	0,000
3796	-1,285	2,000	0,000	0,000	0,000	0,000
3803	-1,838	2,000	0,000	0,000	0,000	0,000
3889	0,000	-0,625	0,000	0,000	0,000	0,000
3890	0,000	-0,550	0,000	0,000	0,000	0,000
3891	0,000	-0,475	0,000	0,000	0,000	0,000
3895	0,000	-0,400	0,000	0,000	0,000	0,000
3896	0,000	-0,325	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
3897	0,000	-0,250	0,000	0,000	0,000	0,000
3898	0,000	-0,175	0,000	0,000	0,000	0,000
3905	0,000	-0,925	0,000	0,000	0,000	0,000
3906	0,000	-0,850	0,000	0,000	0,000	0,000
3907	0,000	-0,775	0,000	0,000	0,000	0,000
3911	0,000	-0,700	0,000	0,000	0,000	0,000
3921	0,000	-1,000	0,000	0,000	0,000	0,000
3922	0,000	-1,225	0,000	0,000	0,000	0,000
3923	0,000	-1,150	0,000	0,000	0,000	0,000
3924	0,000	-1,075	0,000	0,000	0,000	0,000
3931	0,000	-1,300	0,000	0,000	0,000	0,000
3941	0,000	0,275	0,000	0,000	0,000	0,000
3942	0,000	0,350	0,000	0,000	0,000	0,000
3943	0,000	0,425	0,000	0,000	0,000	0,000
3947	0,000	0,200	0,000	0,000	0,000	0,000
3948	0,000	-0,025	0,000	0,000	0,000	0,000
3949	0,000	0,050	0,000	0,000	0,000	0,000
3950	0,000	0,125	0,000	0,000	0,000	0,000
3957	0,000	0,500	0,000	0,000	0,000	0,000
3958	0,000	0,575	0,000	0,000	0,000	0,000
3959	0,000	0,650	0,000	0,000	0,000	0,000
3960	0,000	0,725	0,000	0,000	0,000	0,000
3967	0,000	-0,100	0,000	0,000	0,000	0,000
3977	-0,708	2,000	0,000	0,000	0,000	0,000
3978	-0,799	2,000	0,000	0,000	0,000	0,000
3979	-0,890	2,000	0,000	0,000	0,000	0,000
3983	-0,618	2,000	0,000	0,000	0,000	0,000
3984	-0,373	2,000	0,000	0,000	0,000	0,000
3985	-0,455	2,000	0,000	0,000	0,000	0,000
3986	-0,536	2,000	0,000	0,000	0,000	0,000
3993	-0,981	2,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
4087	0,000	0,800	0,000	0,000	0,000	0,000
4103	0,000	1,700	0,000	0,000	0,000	0,000
4104	0,000	1,775	0,000	0,000	0,000	0,000
4105	0,000	1,850	0,000	0,000	0,000	0,000
4106	0,000	1,925	0,000	0,000	0,000	0,000
4129	15,294	-20,000	0,000	0,000	0,000	0,000
4133	15,882	-20,000	0,000	0,000	0,000	0,000
4134	16,471	-20,000	0,000	0,000	0,000	0,000
4135	17,059	-20,000	0,000	0,000	0,000	0,000
4209	-3,683	4,000	0,000	0,000	0,000	0,000
4213	-2,703	4,000	0,000	0,000	0,000	0,000
4214	-3,030	4,000	0,000	0,000	0,000	0,000
4215	-3,356	4,000	0,000	0,000	0,000	0,000
4225	-0,292	2,000	0,000	0,000	0,000	0,000
4226	-0,073	2,000	0,000	0,000	0,000	0,000
4227	-0,146	2,000	0,000	0,000	0,000	0,000
4228	-0,219	2,000	0,000	0,000	0,000	0,000
4235	0,000	2,000	0,000	0,000	0,000	0,000
4236	0,000	2,071	0,000	0,000	0,000	0,000
4237	0,000	2,143	0,000	0,000	0,000	0,000
4238	0,000	2,214	0,000	0,000	0,000	0,000
4239	0,219	2,000	0,000	0,000	0,000	0,000
4240	0,146	2,000	0,000	0,000	0,000	0,000
4241	0,073	2,000	0,000	0,000	0,000	0,000
4245	-3,468	8,000	0,000	0,000	0,000	0,000
4249	-2,848	8,000	0,000	0,000	0,000	0,000
4250	-3,055	8,000	0,000	0,000	0,000	0,000
4251	-3,261	8,000	0,000	0,000	0,000	0,000
4255	-2,641	8,000	0,000	0,000	0,000	0,000
4259	-2,075	8,000	0,000	0,000	0,000	0,000
4260	-2,264	8,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
4261	-2,452	8,000	0,000	0,000	0,000	0,000
4399	-2,377	4,000	0,000	0,000	0,000	0,000
4403	-1,458	4,000	0,000	0,000	0,000	0,000
4404	-1,764	4,000	0,000	0,000	0,000	0,000
4405	-2,071	4,000	0,000	0,000	0,000	0,000
4425	17,647	-20,000	0,000	0,000	0,000	0,000
4429	18,235	-20,000	0,000	0,000	0,000	0,000
4430	18,824	-20,000	0,000	0,000	0,000	0,000
4431	19,412	-20,000	0,000	0,000	0,000	0,000
4432	20,000	-20,000	0,000	0,000	0,000	0,000
4433	20,000	-19,389	0,000	0,000	0,000	0,000
4434	20,000	-18,778	0,000	0,000	0,000	0,000
4435	20,000	-18,167	0,000	0,000	0,000	0,000
4597	0,536	2,000	0,000	0,000	0,000	0,000
4598	0,455	2,000	0,000	0,000	0,000	0,000
4599	0,373	2,000	0,000	0,000	0,000	0,000
4603	0,292	2,000	0,000	0,000	0,000	0,000
4613	0,000	2,286	0,000	0,000	0,000	0,000
4614	0,000	2,429	0,000	0,000	0,000	0,000
4615	0,000	2,571	0,000	0,000	0,000	0,000
4616	0,000	2,714	0,000	0,000	0,000	0,000
4629	0,618	2,000	0,000	0,000	0,000	0,000
4633	0,890	2,000	0,000	0,000	0,000	0,000
4634	0,799	2,000	0,000	0,000	0,000	0,000
4635	0,708	2,000	0,000	0,000	0,000	0,000
4671	-1,887	8,000	0,000	0,000	0,000	0,000
4675	-1,371	8,000	0,000	0,000	0,000	0,000
4676	-1,543	8,000	0,000	0,000	0,000	0,000
4677	-1,715	8,000	0,000	0,000	0,000	0,000
4763	-1,199	8,000	0,000	0,000	0,000	0,000
4767	-0,728	8,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
4768	-0,885	8,000	0,000	0,000	0,000	0,000
4769	-1,042	8,000	0,000	0,000	0,000	0,000
4859	-1,151	4,000	0,000	0,000	0,000	0,000
4863	-0,288	4,000	0,000	0,000	0,000	0,000
4864	-0,576	4,000	0,000	0,000	0,000	0,000
4865	-0,863	4,000	0,000	0,000	0,000	0,000
4911	20,000	-17,556	0,000	0,000	0,000	0,000
4912	20,000	-16,944	0,000	0,000	0,000	0,000
4913	20,000	-16,333	0,000	0,000	0,000	0,000
4914	20,000	-15,722	0,000	0,000	0,000	0,000
5011	0,000	2,857	0,000	0,000	0,000	0,000
5012	0,000	3,143	0,000	0,000	0,000	0,000
5013	0,000	3,429	0,000	0,000	0,000	0,000
5014	0,000	3,714	0,000	0,000	0,000	0,000
5031	0,981	2,000	0,000	0,000	0,000	0,000
5032	1,285	2,000	0,000	0,000	0,000	0,000
5033	1,183	2,000	0,000	0,000	0,000	0,000
5034	1,082	2,000	0,000	0,000	0,000	0,000
5047	1,386	2,000	0,000	0,000	0,000	0,000
5051	1,725	2,000	0,000	0,000	0,000	0,000
5052	1,612	2,000	0,000	0,000	0,000	0,000
5053	1,499	2,000	0,000	0,000	0,000	0,000
5133	20,000	-15,111	0,000	0,000	0,000	0,000
5137	20,000	-14,500	0,000	0,000	0,000	0,000
5138	20,000	-13,889	0,000	0,000	0,000	0,000
5139	20,000	-13,278	0,000	0,000	0,000	0,000
5197	-0,572	8,000	0,000	0,000	0,000	0,000
5201	-0,143	8,000	0,000	0,000	0,000	0,000
5202	-0,286	8,000	0,000	0,000	0,000	0,000
5203	-0,429	8,000	0,000	0,000	0,000	0,000
5207	0,000	6,216	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
5208	0,000	6,410	0,000	0,000	0,000	0,000
5209	0,000	6,604	0,000	0,000	0,000	0,000
5213	0,000	6,798	0,000	0,000	0,000	0,000
5214	0,000	6,961	0,000	0,000	0,000	0,000
5215	0,000	7,124	0,000	0,000	0,000	0,000
5216	0,000	7,288	0,000	0,000	0,000	0,000
5223	0,000	5,329	0,000	0,000	0,000	0,000
5224	0,000	5,560	0,000	0,000	0,000	0,000
5225	0,000	5,791	0,000	0,000	0,000	0,000
5229	0,000	6,022	0,000	0,000	0,000	0,000
5239	0,000	5,098	0,000	0,000	0,000	0,000
5240	0,000	4,275	0,000	0,000	0,000	0,000
5241	0,000	4,549	0,000	0,000	0,000	0,000
5242	0,000	4,824	0,000	0,000	0,000	0,000
5249	0,000	4,000	0,000	0,000	0,000	0,000
5327	2,217	2,000	0,000	0,000	0,000	0,000
5328	2,091	2,000	0,000	0,000	0,000	0,000
5329	1,964	2,000	0,000	0,000	0,000	0,000
5333	1,838	2,000	0,000	0,000	0,000	0,000
5359	2,343	2,000	0,000	0,000	0,000	0,000
5363	2,765	2,000	0,000	0,000	0,000	0,000
5364	2,624	2,000	0,000	0,000	0,000	0,000
5365	2,483	2,000	0,000	0,000	0,000	0,000
5469	0,000	7,588	0,000	0,000	0,000	0,000
5470	0,000	7,725	0,000	0,000	0,000	0,000
5471	0,000	7,863	0,000	0,000	0,000	0,000
5472	0,000	8,000	0,000	0,000	0,000	0,000
5473	0,750	8,000	0,000	0,000	0,000	0,000
5474	0,500	8,000	0,000	0,000	0,000	0,000
5475	0,250	8,000	0,000	0,000	0,000	0,000
5479	0,000	7,451	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
5511	20,000	-12,667	0,000	0,000	0,000	0,000
5515	20,000	-12,056	0,000	0,000	0,000	0,000
5516	20,000	-11,444	0,000	0,000	0,000	0,000
5517	20,000	-10,833	0,000	0,000	0,000	0,000
5687	1,000	8,000	0,000	0,000	0,000	0,000
5691	2,500	8,000	0,000	0,000	0,000	0,000
5692	2,000	8,000	0,000	0,000	0,000	0,000
5693	1,500	8,000	0,000	0,000	0,000	0,000
5733	20,000	-10,222	0,000	0,000	0,000	0,000
5737	20,000	-9,611	0,000	0,000	0,000	0,000
5738	20,000	-9,000	0,000	0,000	0,000	0,000
5739	20,000	-8,389	0,000	0,000	0,000	0,000
5811	3,377	2,000	0,000	0,000	0,000	0,000
5812	3,220	2,000	0,000	0,000	0,000	0,000
5813	3,063	2,000	0,000	0,000	0,000	0,000
5817	2,906	2,000	0,000	0,000	0,000	0,000
5843	3,534	2,000	0,000	0,000	0,000	0,000
5847	4,059	2,000	0,000	0,000	0,000	0,000
5848	3,884	2,000	0,000	0,000	0,000	0,000
5849	3,709	2,000	0,000	0,000	0,000	0,000
5881	3,000	8,000	0,000	0,000	0,000	0,000
5885	4,500	8,000	0,000	0,000	0,000	0,000
5886	4,000	8,000	0,000	0,000	0,000	0,000
5887	3,500	8,000	0,000	0,000	0,000	0,000
5945	4,820	2,000	0,000	0,000	0,000	0,000
5946	4,625	2,000	0,000	0,000	0,000	0,000
5947	4,429	2,000	0,000	0,000	0,000	0,000
5951	4,234	2,000	0,000	0,000	0,000	0,000
5977	5,016	2,000	0,000	0,000	0,000	0,000
5978	5,670	2,000	0,000	0,000	0,000	0,000
5979	5,452	2,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
5980	5,234	2,000	0,000	0,000	0,000	0,000
5987	20,000	-7,778	0,000	0,000	0,000	0,000
5991	20,000	-7,167	0,000	0,000	0,000	0,000
5992	20,000	-6,556	0,000	0,000	0,000	0,000
5993	20,000	-5,944	0,000	0,000	0,000	0,000
6113	20,000	-5,333	0,000	0,000	0,000	0,000
6117	20,000	-4,722	0,000	0,000	0,000	0,000
6118	20,000	-4,111	0,000	0,000	0,000	0,000
6119	20,000	-3,500	0,000	0,000	0,000	0,000
6171	5,000	8,000	0,000	0,000	0,000	0,000
6175	6,875	8,000	0,000	0,000	0,000	0,000
6176	6,250	8,000	0,000	0,000	0,000	0,000
6177	5,625	8,000	0,000	0,000	0,000	0,000
6191	6,617	2,000	0,000	0,000	0,000	0,000
6192	6,374	2,000	0,000	0,000	0,000	0,000
6193	6,131	2,000	0,000	0,000	0,000	0,000
6197	5,888	2,000	0,000	0,000	0,000	0,000
6223	6,860	2,000	0,000	0,000	0,000	0,000
6224	7,674	2,000	0,000	0,000	0,000	0,000
6225	7,403	2,000	0,000	0,000	0,000	0,000
6226	7,132	2,000	0,000	0,000	0,000	0,000
6345	7,500	8,000	0,000	0,000	0,000	0,000
6349	9,375	8,000	0,000	0,000	0,000	0,000
6350	8,750	8,000	0,000	0,000	0,000	0,000
6351	8,125	8,000	0,000	0,000	0,000	0,000
6355	10,170	2,000	0,000	0,000	0,000	0,000
6356	9,832	2,000	0,000	0,000	0,000	0,000
6357	9,494	2,000	0,000	0,000	0,000	0,000
6361	9,157	2,000	0,000	0,000	0,000	0,000
6362	8,854	2,000	0,000	0,000	0,000	0,000
6363	8,551	2,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
6364	8,248	2,000	0,000	0,000	0,000	0,000
6371	7,946	2,000	0,000	0,000	0,000	0,000
6401	11,638	2,000	0,000	0,000	0,000	0,000
6402	11,261	2,000	0,000	0,000	0,000	0,000
6403	10,884	2,000	0,000	0,000	0,000	0,000
6407	10,508	2,000	0,000	0,000	0,000	0,000
6417	20,000	-2,889	0,000	0,000	0,000	0,000
6421	20,000	-2,278	0,000	0,000	0,000	0,000
6422	20,000	-1,667	0,000	0,000	0,000	0,000
6423	20,000	-1,056	0,000	0,000	0,000	0,000
6449	12,015	2,000	0,000	0,000	0,000	0,000
6450	13,276	2,000	0,000	0,000	0,000	0,000
6451	12,855	2,000	0,000	0,000	0,000	0,000
6452	12,435	2,000	0,000	0,000	0,000	0,000
6495	20,000	-0,444	0,000	0,000	0,000	0,000
6499	20,000	0,167	0,000	0,000	0,000	0,000
6500	20,000	0,778	0,000	0,000	0,000	0,000
6501	20,000	1,389	0,000	0,000	0,000	0,000
6531	10,000	8,000	0,000	0,000	0,000	0,000
6535	11,875	8,000	0,000	0,000	0,000	0,000
6536	11,250	8,000	0,000	0,000	0,000	0,000
6537	10,625	8,000	0,000	0,000	0,000	0,000
6541	15,103	2,000	0,000	0,000	0,000	0,000
6542	14,634	2,000	0,000	0,000	0,000	0,000
6543	14,165	2,000	0,000	0,000	0,000	0,000
6553	13,696	2,000	0,000	0,000	0,000	0,000
6579	15,572	2,000	0,000	0,000	0,000	0,000
6580	17,142	2,000	0,000	0,000	0,000	0,000
6581	16,619	2,000	0,000	0,000	0,000	0,000
6582	16,095	2,000	0,000	0,000	0,000	0,000
6625	12,500	8,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
6629	14,375	8,000	0,000	0,000	0,000	0,000
6630	13,750	8,000	0,000	0,000	0,000	0,000
6631	13,125	8,000	0,000	0,000	0,000	0,000
6641	17,665	2,000	0,000	0,000	0,000	0,000
6642	19,416	2,000	0,000	0,000	0,000	0,000
6643	18,833	2,000	0,000	0,000	0,000	0,000
6644	18,249	2,000	0,000	0,000	0,000	0,000
6661	20,000	2,000	0,000	0,000	0,000	0,000
6665	20,000	2,500	0,000	0,000	0,000	0,000
6666	20,000	3,000	0,000	0,000	0,000	0,000
6667	20,000	3,500	0,000	0,000	0,000	0,000
6671	20,000	4,000	0,000	0,000	0,000	0,000
6675	20,000	4,500	0,000	0,000	0,000	0,000
6676	20,000	5,000	0,000	0,000	0,000	0,000
6677	20,000	5,500	0,000	0,000	0,000	0,000
6678	15,000	8,000	0,000	0,000	0,000	0,000
6687	20,000	6,000	0,000	0,000	0,000	0,000
6694	16,875	8,000	0,000	0,000	0,000	0,000
6695	16,250	8,000	0,000	0,000	0,000	0,000
6696	15,625	8,000	0,000	0,000	0,000	0,000
6697	17,500	8,000	0,000	0,000	0,000	0,000
6717	18,125	8,000	0,000	0,000	0,000	0,000
6718	20,000	7,000	0,000	0,000	0,000	0,000
6719	20,000	7,500	0,000	0,000	0,000	0,000
6720	19,375	8,000	0,000	0,000	0,000	0,000
6721	20,000	8,000	0,000	0,000	0,000	0,000
6723	20,000	6,500	0,000	0,000	0,000	0,000


		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

6. Results for phase 1

Table [10] Table of deformations phase no: 1

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4	-20,000	-10,833	0,000	0,000	25,734	51,513
5	-20,000	-11,444	0,000	0,000	22,911	45,862
6	-20,000	-12,056	0,000	0,000	20,191	40,417
19	-20,000	-13,278	0,000	0,000	15,100	30,229
20	-20,000	-13,889	0,000	0,000	12,753	25,531
21	-20,000	-14,500	0,000	0,000	10,554	21,127
28	-20,000	-12,667	0,000	0,000	17,583	35,199
29	-20,000	-15,111	0,000	0,000	8,514	17,045
33	-20,000	-15,722	0,000	0,000	6,649	13,311
34	-20,000	-16,333	0,000	0,000	4,973	9,957
35	-20,000	-16,944	0,000	0,000	3,505	7,017
51	-20,000	-17,556	0,000	0,000	2,261	4,527
52	-20,000	-20,000	0,000	0,000	0,000	0,000
53	-19,412	-20,000	0,000	0,000	0,000	0,000
54	-18,824	-20,000	0,000	0,000	0,000	0,000
55	-18,235	-20,000	0,000	0,000	0,000	0,000
59	-20,000	-18,167	0,000	0,000	1,265	2,532
60	-20,000	-18,778	0,000	0,000	538,226	1,078
61	-20,000	-19,389	0,000	0,000	107,354	215,144
96	-20,000	-10,222	0,000	0,000	28,652	57,353
97	-20,000	-8,389	0,000	0,000	37,863	75,789
98	-20,000	-9,000	0,000	0,000	34,727	69,511
99	-20,000	-9,611	0,000	0,000	31,653	63,359
135	-20,000	-7,778	0,000	0,000	41,053	82,171
139	-20,000	-5,944	0,000	0,000	50,818	101,713
140	-20,000	-6,556	0,000	0,000	47,543	95,158

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
141	-20,000	-7,167	0,000	0,000	44,283	88,636
167	-17,647	-20,000	0,000	0,000	0,000	0,000
171	-17,059	-20,000	0,000	0,000	0,000	0,000
172	-16,471	-20,000	0,000	0,000	0,000	0,000
173	-15,882	-20,000	0,000	0,000	0,000	0,000
217	-20,000	-5,333	0,000	0,000	54,097	108,274
221	-20,000	-3,500	0,000	0,000	63,807	127,699
222	-20,000	-4,111	0,000	0,000	60,607	121,297
223	-20,000	-4,722	0,000	0,000	57,365	114,812
285	-15,294	-20,000	0,000	0,000	0,000	0,000
289	-14,706	-20,000	0,000	0,000	0,000	0,000
290	-14,118	-20,000	0,000	0,000	0,000	0,000
291	-13,529	-20,000	0,000	0,000	0,000	0,000
407	-20,000	-2,889	0,000	0,000	66,950	133,984
411	-20,000	-1,056	0,000	0,000	75,860	151,803
412	-20,000	-1,667	0,000	0,000	72,994	146,071
413	-20,000	-2,278	0,000	0,000	70,018	140,120
451	-12,941	-20,000	0,000	0,000	0,000	0,000
455	-12,353	-20,000	0,000	0,000	0,000	0,000
456	-11,765	-20,000	0,000	0,000	0,000	0,000
457	-11,176	-20,000	0,000	0,000	0,000	0,000
551	-20,000	-0,444	0,000	0,000	78,602	157,283
555	-20,000	1,389	0,000	0,000	85,911	171,887
556	-20,000	0,778	0,000	0,000	83,642	167,355
557	-20,000	0,167	0,000	0,000	81,201	162,477
561	-10,588	-20,000	0,000	0,000	0,000	0,000
565	-10,000	-20,000	0,000	0,000	0,000	0,000
566	-9,412	-20,000	0,000	0,000	0,000	0,000
567	-8,824	-20,000	0,000	0,000	0,000	0,000
785	-8,235	-20,000	0,000	0,000	0,000	0,000
789	-7,647	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
790	-7,059	-20,000	0,000	0,000	0,000	0,000
791	-6,471	-20,000	0,000	0,000	0,000	0,000
833	-16,095	2,000	-13,043	-26,040	83,791	167,648
834	-16,619	2,000	-11,276	-22,512	84,865	169,794
835	-17,142	2,000	-9,518	-19,002	85,772	171,607
839	-18,249	2,000	-5,819	-11,618	87,169	174,399
840	-18,833	2,000	-3,877	-7,740	87,630	175,319
841	-19,416	2,000	-1,938	-3,868	87,905	175,868
845	-17,665	2,000	-7,767	-15,506	86,519	173,100
855	-20,000	2,000	0,000	0,000	87,996	176,050
856	-20,000	3,500	0,000	0,000	89,991	180,039
857	-20,000	3,000	0,000	0,000	89,388	178,835
858	-20,000	2,500	0,000	0,000	88,723	177,504
865	-20,000	4,000	0,000	0,000	90,529	181,112
866	-18,273	4,000	-3,782	-7,526	89,722	179,499
867	-18,849	4,000	-2,519	-5,012	90,171	180,398
868	-19,424	4,000	-1,258	-2,504	90,440	180,934
869	-20,000	5,500	0,000	0,000	91,724	183,489
870	-20,000	5,000	0,000	0,000	91,397	182,840
871	-20,000	4,500	0,000	0,000	90,998	182,048
875	-5,882	-20,000	0,000	0,000	0,000	0,000
879	-5,294	-20,000	0,000	0,000	0,000	0,000
880	-4,706	-20,000	0,000	0,000	0,000	0,000
881	-4,118	-20,000	0,000	0,000	0,000	0,000
919	-20,000	6,000	0,000	0,000	91,979	183,995
923	-20,000	8,000	0,000	0,000	92,306	184,624
924	-20,000	7,500	0,000	0,000	92,323	184,665
925	-20,000	7,000	0,000	0,000	92,277	184,578
926	-20,000	6,500	0,000	0,000	92,163	184,357
927	-18,285	8,000	399,125	849,548	91,494	183,001
928	-18,857	8,000	258,936	551,905	91,946	183,904

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
929	-19,428	8,000	127,315	271,599	92,216	184,444
1051	-15,572	2,000	-14,821	-29,590	82,545	165,156
1052	-14,165	2,000	-19,670	-39,274	78,271	156,615
1053	-14,634	2,000	-18,040	-36,020	79,853	159,775
1054	-15,103	2,000	-16,425	-32,793	81,274	162,617
1061	-16,077	4,000	-8,671	-17,253	86,272	172,608
1062	-16,617	4,000	-7,453	-14,831	87,385	174,832
1063	-17,157	4,000	-6,247	-12,431	88,322	176,703
1067	-17,698	4,000	-5,050	-10,049	89,088	178,233
1077	-15,536	4,000	-9,902	-19,702	84,975	170,017
1078	-14,014	4,000	-13,480	-26,822	80,260	160,597
1079	-14,521	4,000	-12,265	-24,404	82,015	164,103
1080	-15,029	4,000	-11,074	-22,034	83,583	167,237
1119	-13,696	2,000	-21,316	-42,561	76,523	153,119
1123	-12,435	2,000	-25,837	-51,594	70,916	141,910
1124	-12,855	2,000	-24,312	-48,547	72,940	145,957
1125	-13,276	2,000	-22,806	-45,538	74,806	149,687
1173	-3,529	-20,000	0,000	0,000	0,000	0,000
1177	-2,941	-20,000	0,000	0,000	0,000	0,000
1178	-2,353	-20,000	0,000	0,000	0,000	0,000
1179	-1,765	-20,000	0,000	0,000	0,000	0,000
1212	-17,713	8,000	552,191	1,173	90,858	181,730
1213	-16,150	8,000	1,074	2,268	88,146	176,309
1214	-16,671	8,000	879,944	1,862	89,212	178,441
1215	-17,192	8,000	707,114	1,499	90,115	180,245
1219	-1,176	-20,000	0,000	0,000	0,000	0,000
1223	-0,588	-20,000	0,000	0,000	0,000	0,000
1224	0,000	-20,000	0,000	0,000	0,000	0,000
1225	0,588	-20,000	0,000	0,000	0,000	0,000
1238	-15,628	8,000	1,294	2,726	86,910	173,839
1239	-14,203	8,000	2,057	4,306	82,613	165,252

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011



Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1240	-14,678	8,000	1,773	3,719	84,201	168,425
1241	-15,153	8,000	1,520	3,194	85,631	171,283
1421	-13,507	4,000	-14,724	-29,298	78,308	156,698
1422	-12,077	4,000	-18,443	-36,699	71,639	143,376
1423	-12,554	4,000	-17,162	-34,149	74,067	148,226
1424	-13,030	4,000	-15,925	-31,686	76,286	152,658
1469	-12,015	2,000	-27,381	-54,680	68,726	137,531
1473	-10,884	2,000	-31,651	-63,214	61,930	123,941
1474	-11,261	2,000	-30,207	-60,329	64,351	128,782
1475	-11,638	2,000	-28,785	-57,485	66,613	133,306
1495	-13,727	8,000	2,376	4,963	80,861	161,752
1499	-12,428	8,000	3,461	7,194	75,159	150,356
1500	-12,861	8,000	3,061	6,372	77,216	154,467
1501	-13,294	8,000	2,701	5,631	79,114	158,260
1539	1,176	-20,000	0,000	0,000	0,000	0,000
1543	1,765	-20,000	0,000	0,000	0,000	0,000
1544	2,353	-20,000	0,000	0,000	0,000	0,000
1545	2,941	-20,000	0,000	0,000	0,000	0,000
1593	-11,601	4,000	-19,776	-39,354	68,988	138,078
1597	-11,154	4,000	-21,084	-41,959	66,278	132,664
1598	-10,706	4,000	-22,454	-44,692	63,339	126,791
1599	-10,259	4,000	-23,898	-47,571	60,151	120,421
1667	-10,508	2,000	-33,116	-66,145	59,343	118,765
1668	-9,494	2,000	-37,177	-74,268	51,477	103,029
1669	-9,832	2,000	-35,803	-71,519	54,254	108,586
1670	-10,170	2,000	-34,449	-68,812	56,874	113,826
1747	3,529	-20,000	0,000	0,000	0,000	0,000
1751	4,118	-20,000	0,000	0,000	0,000	0,000
1752	4,706	-20,000	0,000	0,000	0,000	0,000
1753	5,294	-20,000	0,000	0,000	0,000	0,000
1773	-11,994	8,000	3,906	8,105	72,933	145,910

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011



Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1777	-10,809	8,000	5,390	11,145	65,894	131,847
1778	-11,204	8,000	4,847	10,033	68,406	136,865
1779	-11,599	8,000	4,354	9,023	70,748	141,545
2063	-9,157	2,000	-38,572	-77,060	48,532	97,137
2067	-8,248	2,000	-42,432	-84,786	39,712	79,484
2068	-8,551	2,000	-41,128	-82,176	42,806	85,677
2069	-8,854	2,000	-39,842	-79,600	45,744	91,556
2073	-7,946	2,000	-43,753	-87,430	36,454	72,961
2077	-7,132	2,000	-47,380	-94,692	26,811	53,655
2078	-7,403	2,000	-46,160	-92,249	30,175	60,390
2079	-7,674	2,000	-44,951	-89,828	33,387	66,821
2083	-10,414	8,000	5,988	12,371	63,202	126,469
2087	-9,334	8,000	7,961	16,409	54,793	109,670
2088	-9,694	8,000	7,243	14,939	57,779	115,636
2089	-10,054	8,000	6,588	13,597	60,578	121,226
2115	5,882	-20,000	0,000	0,000	0,000	0,000
2116	6,471	-20,000	0,000	0,000	0,000	0,000
2117	7,059	-20,000	0,000	0,000	0,000	0,000
2118	7,647	-20,000	0,000	0,000	0,000	0,000
2215	-8,552	4,000	-30,300	-60,358	45,273	90,676
2216	-8,972	4,000	-28,570	-56,898	49,381	98,892
2217	-9,392	4,000	-26,949	-53,661	53,179	106,485
2221	-9,812	4,000	-25,426	-50,621	56,693	113,510
2275	-8,974	8,000	8,748	18,019	51,602	103,296
2279	-7,989	8,000	11,310	23,269	41,675	83,464
2280	-8,317	8,000	10,383	21,368	45,197	90,499
2281	-8,645	8,000	9,531	19,623	48,500	97,098
2423	-8,132	4,000	-32,154	-64,067	40,824	81,775
2427	-6,949	4,000	-38,173	-76,123	26,130	52,358
2428	-7,343	4,000	-36,023	-71,814	31,419	62,951
2429	-7,737	4,000	-34,021	-67,804	36,304	72,731

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
2433	-6,860	2,000	-48,609	-97,152	23,290	46,604
2434	-6,131	2,000	-51,938	-103,818	12,984	25,966
2435	-6,374	2,000	-50,826	-101,592	16,560	33,127
2436	-6,617	2,000	-49,716	-99,369	19,994	40,003
2517	8,235	-20,000	0,000	0,000	0,000	0,000
2521	8,824	-20,000	0,000	0,000	0,000	0,000
2522	9,412	-20,000	0,000	0,000	0,000	0,000
2523	10,000	-20,000	0,000	0,000	0,000	0,000
2559	-5,234	2,000	-55,994	-111,935	-1,518	-3,076
2560	-5,452	2,000	-55,021	-109,988	2,203	4,375
2561	-5,670	2,000	-54,038	-108,021	5,795	11,568
2565	-5,888	2,000	-53,048	-106,039	9,261	18,509
2581	-5,016	2,000	-56,953	-113,853	-5,371	-10,791
2585	-4,429	2,000	-59,426	-118,800	-16,404	-32,885
2586	-4,625	2,000	-58,622	-117,192	-12,616	-25,298
2587	-4,820	2,000	-57,796	-115,541	-8,938	-17,935
2709	-7,660	8,000	12,318	25,340	37,914	75,949
2713	-6,762	8,000	15,552	31,998	26,207	52,555
2714	-7,062	8,000	14,391	29,604	30,363	60,860
2715	-7,361	8,000	13,315	27,388	34,258	68,642
2805	-6,463	8,000	16,802	34,585	21,765	43,676
2809	-5,644	8,000	20,652	42,684	7,913	15,978
2810	-5,917	8,000	19,312	39,823	12,827	25,813
2811	-6,190	8,000	18,022	37,120	17,437	35,029
2999	10,588	-20,000	0,000	0,000	0,000	0,000
3003	11,176	-20,000	0,000	0,000	0,000	0,000
3004	11,765	-20,000	0,000	0,000	0,000	0,000
3005	12,353	-20,000	0,000	0,000	0,000	0,000
3115	-6,554	4,000	-40,486	-80,758	20,392	40,862
3116	-5,444	4,000	-47,980	-95,776	1,357	2,704
3117	-5,814	4,000	-45,312	-90,430	8,225	16,476

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3118	-6,184	4,000	-42,817	-85,429	14,553	29,159
3151	-3,709	2,000	-62,127	-124,198	-31,359	-62,821
3152	-3,884	2,000	-61,517	-122,979	-27,583	-55,264
3153	-4,059	2,000	-60,874	-121,695	-23,899	-47,889
3157	-4,234	2,000	-60,204	-120,354	-20,306	-40,696
3173	-3,534	2,000	-62,701	-125,344	-35,225	-70,560
3177	-3,063	2,000	-64,026	-127,989	-46,061	-92,244
3178	-3,220	2,000	-63,623	-127,185	-42,379	-84,876
3179	-3,377	2,000	-63,180	-126,301	-38,766	-77,647
3199	0,000	-3,325	-44,872	-89,763	-75,122	-150,365
3200	0,000	-3,250	-45,067	-90,152	-75,770	-151,660
3201	0,000	-3,175	-45,262	-90,542	-76,420	-152,962
3205	0,000	-3,100	-45,458	-90,934	-77,074	-154,270
3206	0,000	-3,025	-45,655	-91,327	-77,731	-155,584
3207	0,000	-2,950	-45,853	-91,723	-78,391	-156,904
3208	0,000	-2,875	-46,051	-92,119	-79,054	-158,231
3215	0,000	-3,625	-44,103	-88,226	-72,565	-145,248
3216	0,000	-3,550	-44,294	-88,607	-73,199	-146,517
3217	0,000	-3,475	-44,486	-88,991	-73,837	-147,794
3221	0,000	-3,400	-44,679	-89,376	-74,478	-149,076
3231	0,000	-3,700	-43,912	-87,845	-71,933	-143,984
3232	0,000	-3,925	-43,347	-86,715	-70,059	-140,233
3233	0,000	-3,850	-43,534	-87,090	-70,680	-141,477
3234	0,000	-3,775	-43,723	-87,467	-71,305	-142,727
3289	0,000	-2,425	-47,259	-94,531	-83,095	-166,316
3290	0,000	-2,350	-47,463	-94,938	-83,779	-167,685
3291	0,000	-2,275	-47,667	-95,346	-84,466	-169,059
3295	0,000	-2,500	-47,056	-94,125	-82,414	-164,954
3296	0,000	-2,725	-46,451	-92,917	-80,389	-160,902
3297	0,000	-2,650	-46,652	-93,319	-81,061	-162,247
3298	0,000	-2,575	-46,853	-93,721	-81,736	-163,597

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3305	0,000	-2,800	-46,251	-92,517	-79,720	-159,563
3315	0,000	-2,125	-48,078	-96,166	-85,848	-171,824
3316	0,000	-2,050	-48,284	-96,578	-86,544	-173,215
3317	0,000	-1,975	-48,491	-96,991	-87,241	-174,611
3321	0,000	-2,200	-47,872	-95,756	-85,156	-170,439
3337	0,000	-4,000	-43,160	-86,341	-69,440	-138,996
3403	-5,073	4,000	-50,825	-101,476	-6,114	-12,276
3407	-4,030	4,000	-59,776	-119,386	-31,008	-62,181
3408	-4,378	4,000	-56,647	-113,127	-22,013	-44,151
3409	-4,726	4,000	-53,659	-107,149	-13,737	-27,560
3429	-5,371	8,000	22,014	45,680	2,658	5,456
3433	-4,625	8,000	27,292	56,063	-13,435	-27,105
3434	-4,873	8,000	25,184	52,144	-7,557	-15,370
3435	-5,122	8,000	23,269	48,528	-2,255	-4,590
3439	12,941	-20,000	0,000	0,000	0,000	0,000
3443	13,529	-20,000	0,000	0,000	0,000	0,000
3444	14,118	-20,000	0,000	0,000	0,000	0,000
3445	14,706	-20,000	0,000	0,000	0,000	0,000
3513	0,000	-1,525	-49,741	-99,486	-91,484	-183,097
3514	0,000	-1,450	-49,950	-99,904	-92,199	-184,528
3515	0,000	-1,375	-50,159	-100,322	-92,917	-185,964
3519	0,000	-1,600	-49,531	-99,069	-90,770	-181,670
3520	0,000	-1,825	-48,906	-97,820	-88,645	-177,419
3521	0,000	-1,750	-49,114	-98,235	-89,351	-178,831
3522	0,000	-1,675	-49,322	-98,652	-90,060	-180,248
3529	0,000	-1,900	-48,698	-97,405	-87,942	-176,013
3561	-4,376	8,000	28,799	59,500	-19,770	-39,712
3565	-3,695	8,000	35,559	72,180	-38,887	-78,444
3566	-3,922	8,000	32,885	67,424	-31,907	-64,489
3567	-4,149	8,000	30,398	62,964	-25,609	-51,664
3625	0,000	0,875	-56,014	-111,990	-115,023	-230,170

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3626	0,000	0,950	-56,167	-112,294	-115,755	-231,634
3627	0,000	1,025	-56,315	-112,587	-116,485	-233,093
3631	0,000	1,100	-56,457	-112,869	-117,213	-234,547
3632	0,000	1,175	-56,593	-113,138	-117,937	-235,995
3633	0,000	1,250	-56,721	-113,394	-118,659	-237,437
3634	0,000	1,325	-56,843	-113,635	-119,376	-238,872
3657	0,000	1,400	-56,957	-113,861	-120,090	-240,300
3658	0,000	1,475	-57,063	-114,071	-120,800	-241,719
3659	0,000	1,550	-57,161	-114,263	-121,506	-243,129
3660	0,000	1,625	-57,249	-114,437	-122,207	-244,530
3731	-2,483	2,000	-65,098	-130,127	-60,210	-120,554
3732	-2,624	2,000	-64,904	-129,740	-56,694	-113,520
3733	-2,765	2,000	-64,665	-129,264	-53,227	-106,583
3734	-2,906	2,000	-64,384	-128,704	-49,810	-99,747
3741	-2,343	2,000	-65,244	-130,417	-63,772	-127,679
3742	-1,964	2,000	-65,372	-130,669	-73,554	-147,244
3743	-2,091	2,000	-65,375	-130,676	-70,263	-140,662
3744	-2,217	2,000	-65,331	-130,590	-67,001	-134,139
3787	-1,499	2,000	-64,920	-129,761	-85,899	-171,933
3788	-1,612	2,000	-65,098	-130,117	-82,875	-165,887
3789	-1,725	2,000	-65,231	-130,384	-79,865	-159,867
3793	-1,386	2,000	-64,696	-129,312	-88,933	-178,002
3794	-1,082	2,000	-63,847	-127,614	-97,123	-194,377
3795	-1,183	2,000	-64,171	-128,262	-94,391	-188,914
3796	-1,285	2,000	-64,454	-128,827	-91,660	-183,454
3803	-1,838	2,000	-65,321	-130,565	-76,871	-153,880
3889	0,000	-0,625	-52,248	-104,490	-100,204	-200,539
3890	0,000	-0,550	-52,455	-104,901	-100,942	-202,015
3891	0,000	-0,475	-52,660	-105,311	-101,681	-203,492
3895	0,000	-0,400	-52,865	-105,718	-102,421	-204,972
3896	0,000	-0,325	-53,068	-106,124	-103,162	-206,453

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3897	0,000	-0,250	-53,270	-106,526	-103,903	-207,937
3898	0,000	-0,175	-53,470	-106,926	-104,646	-209,421
3905	0,000	-0,925	-51,417	-102,831	-97,268	-194,667
3906	0,000	-0,850	-51,625	-103,247	-98,000	-196,130
3907	0,000	-0,775	-51,834	-103,663	-98,733	-197,597
3911	0,000	-0,700	-52,041	-104,077	-99,468	-199,067
3921	0,000	-1,000	-51,207	-102,414	-96,538	-193,207
3922	0,000	-1,225	-50,579	-101,159	-94,359	-188,849
3923	0,000	-1,150	-50,789	-101,578	-95,084	-190,298
3924	0,000	-1,075	-50,998	-101,996	-95,810	-191,751
3931	0,000	-1,300	-50,369	-100,741	-93,637	-187,405
3941	0,000	0,275	-54,633	-109,241	-109,107	-218,341
3942	0,000	0,350	-54,818	-109,610	-109,850	-219,827
3943	0,000	0,425	-55,000	-109,972	-110,592	-221,311
3947	0,000	0,200	-54,445	-108,867	-108,363	-216,855
3948	0,000	-0,025	-53,866	-107,714	-106,132	-212,394
3949	0,000	0,050	-54,061	-108,103	-106,876	-213,881
3950	0,000	0,125	-54,254	-108,487	-107,620	-215,368
3957	0,000	0,500	-55,179	-110,329	-111,334	-222,794
3958	0,000	0,575	-55,354	-110,677	-112,075	-224,275
3959	0,000	0,650	-55,526	-111,019	-112,814	-225,753
3960	0,000	0,725	-55,693	-111,351	-113,552	-227,229
3967	0,000	-0,100	-53,669	-107,322	-105,389	-210,907
3977	-0,708	2,000	-62,276	-124,471	-107,170	-214,465
3978	-0,799	2,000	-62,714	-125,347	-104,738	-209,602
3979	-0,890	2,000	-63,115	-126,150	-102,298	-204,725
3983	-0,618	2,000	-61,800	-123,521	-109,593	-219,309
3984	-0,373	2,000	-60,331	-120,584	-116,042	-232,203
3985	-0,455	2,000	-60,852	-121,626	-113,905	-227,930
3986	-0,536	2,000	-61,342	-122,604	-111,754	-223,630
3993	-0,981	2,000	-63,481	-126,881	-99,854	-199,838

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4087	0,000	0,800	-55,856	-111,675	-114,288	-228,701
4103	0,000	1,700	-57,328	-114,592	-122,903	-245,921
4104	0,000	1,775	-57,396	-114,725	-123,593	-247,300
4105	0,000	1,850	-57,453	-114,837	-124,278	-248,668
4106	0,000	1,925	-57,498	-114,925	-124,956	-250,024
4129	15,294	-20,000	0,000	0,000	0,000	0,000
4133	15,882	-20,000	0,000	0,000	0,000	0,000
4134	16,471	-20,000	0,000	0,000	0,000	0,000
4135	17,059	-20,000	0,000	0,000	0,000	0,000
4209	-3,683	4,000	-63,028	-125,886	-40,795	-81,790
4213	-2,703	4,000	-72,521	-144,850	-73,252	-146,772
4214	-3,030	4,000	-69,346	-138,509	-61,569	-123,390
4215	-3,356	4,000	-66,164	-132,153	-50,770	-101,768
4225	-0,292	2,000	-59,779	-119,480	-118,165	-236,447
4226	-0,073	2,000	-58,132	-116,190	-123,787	-247,686
4227	-0,146	2,000	-58,707	-117,338	-121,928	-243,971
4228	-0,219	2,000	-59,256	-118,435	-120,054	-240,224
4235	0,000	2,000	-57,531	-114,988	-125,628	-251,367
4236	0,000	2,071	-59,119	-118,158	-128,432	-256,975
4237	0,000	2,143	-60,653	-121,219	-131,243	-262,597
4238	0,000	2,214	-62,133	-124,173	-134,061	-268,234
4239	0,219	2,000	-55,568	-111,066	-131,033	-262,173
4240	0,146	2,000	-56,249	-112,426	-129,253	-258,613
4241	0,073	2,000	-56,903	-113,734	-127,450	-255,010
4245	-3,468	8,000	37,782	76,599	-46,793	-93,817
4249	-2,848	8,000	44,435	89,857	-69,481	-139,838
4250	-3,055	8,000	41,431	84,554	-61,184	-123,247
4251	-3,261	8,000	38,831	79,751	-53,681	-107,982
4255	-2,641	8,000	46,535	94,356	-78,420	-157,653
4259	-2,075	8,000	55,353	110,037	-105,729	-212,590
4260	-2,264	8,000	52,063	104,444	-95,781	-192,862

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4261	-2,452	8,000	48,690	98,770	-86,779	-174,660
4399	-2,377	4,000	-75,622	-151,041	-85,870	-172,015
4403	-1,458	4,000	-83,147	-166,062	-126,695	-253,642
4404	-1,764	4,000	-80,936	-161,648	-112,212	-224,693
4405	-2,071	4,000	-78,392	-156,570	-98,602	-197,480
4425	17,647	-20,000	0,000	0,000	0,000	0,000
4429	18,235	-20,000	0,000	0,000	0,000	0,000
4430	18,824	-20,000	0,000	0,000	0,000	0,000
4431	19,412	-20,000	0,000	0,000	0,000	0,000
4432	20,000	-20,000	0,000	0,000	0,000	0,000
4433	20,000	-19,389	0,000	0,000	-23,668	-46,913
4434	20,000	-18,778	0,000	0,000	146,316	294,135
4435	20,000	-18,167	0,000	0,000	484,491	972,143
4597	0,536	2,000	-52,299	-104,535	-138,488	-277,077
4598	0,455	2,000	-53,186	-106,306	-136,623	-273,348
4599	0,373	2,000	-54,040	-108,012	-134,723	-269,550
4603	0,292	2,000	-54,861	-109,652	-132,791	-265,688
4613	0,000	2,286	-63,562	-127,025	-136,886	-273,883
4614	0,000	2,429	-66,272	-132,434	-142,553	-285,219
4615	0,000	2,571	-68,795	-137,468	-148,242	-296,597
4616	0,000	2,714	-71,139	-142,146	-153,949	-308,010
4629	0,618	2,000	-51,380	-102,698	-140,317	-280,733
4633	0,890	2,000	-48,069	-96,082	-146,145	-292,385
4634	0,799	2,000	-49,212	-98,366	-144,255	-288,606
4635	0,708	2,000	-50,316	-100,572	-142,311	-284,720
4671	-1,887	8,000	57,172	114,107	-116,748	-234,036
4675	-1,371	8,000	65,107	130,554	-149,004	-298,718
4676	-1,543	8,000	62,399	124,889	-137,458	-275,510
4677	-1,715	8,000	59,726	119,299	-126,566	-253,802
4763	-1,199	8,000	68,241	136,475	-161,324	-323,539
4767	-0,728	8,000	76,812	153,464	-200,329	-401,552

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4768	-0,885	8,000	73,899	147,652	-186,521	-373,801
4769	-1,042	8,000	71,211	142,054	-173,534	-347,851
4859	-1,151	4,000	-84,903	-169,567	-142,007	-284,245
4863	-0,288	4,000	-86,178	-172,117	-188,785	-377,712
4864	-0,576	4,000	-86,484	-172,725	-172,721	-345,618
4865	-0,863	4,000	-86,016	-171,791	-157,080	-314,366
4911	20,000	-17,556	0,000	0,000	970,709	1,947
4912	20,000	-16,944	0,000	0,000	1,588	3,185
4913	20,000	-16,333	0,000	0,000	2,324	4,658
4914	20,000	-15,722	0,000	0,000	3,168	6,351
5011	0,000	2,857	-73,314	-146,484	-159,667	-319,447
5012	0,000	3,143	-77,177	-154,188	-171,119	-342,349
5013	0,000	3,429	-80,413	-160,637	-182,548	-365,207
5014	0,000	3,714	-83,023	-165,835	-193,893	-387,896
5031	0,981	2,000	-46,886	-93,721	-147,978	-296,050
5032	1,285	2,000	-42,659	-85,275	-153,668	-307,427
5033	1,183	2,000	-44,113	-88,181	-151,851	-303,795
5034	1,082	2,000	-45,523	-90,997	-149,954	-300,000
5047	1,386	2,000	-41,161	-82,284	-155,400	-310,890
5051	1,725	2,000	-35,857	-71,687	-160,535	-321,160
5052	1,612	2,000	-37,673	-75,314	-158,940	-317,971
5053	1,499	2,000	-39,442	-78,848	-157,227	-314,545
5133	20,000	-15,111	0,000	0,000	4,116	8,250
5137	20,000	-14,500	0,000	0,000	5,162	10,346
5138	20,000	-13,889	0,000	0,000	6,304	12,635
5139	20,000	-13,278	0,000	0,000	7,543	15,118
5197	-0,572	8,000	80,383	159,557	-215,341	-431,630
5201	-0,143	8,000	88,449	176,364	-262,935	-526,182
5202	-0,286	8,000	86,014	170,830	-246,008	-492,299
5203	-0,429	8,000	83,570	165,383	-230,119	-460,763
5207	0,000	6,216	-63,132	-126,033	-274,034	-548,178

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5208	0,000	6,410	-55,434	-110,676	-277,121	-554,353
5209	0,000	6,604	-46,042	-91,946	-279,457	-559,029
5213	0,000	6,798	-34,670	-69,273	-280,999	-562,114
5214	0,000	6,961	-23,332	-46,676	-281,660	-563,434
5215	0,000	7,124	-10,150	-20,409	-281,812	-563,733
5216	0,000	7,288	4,974	9,717	-281,600	-563,301
5223	0,000	5,329	-82,741	-165,184	-252,172	-504,447
5224	0,000	5,560	-79,598	-158,902	-258,904	-517,912
5225	0,000	5,791	-75,238	-150,193	-264,970	-530,046
5229	0,000	6,022	-69,392	-138,522	-270,253	-540,613
5239	0,000	5,098	-84,865	-169,435	-244,882	-489,867
5240	0,000	4,275	-86,189	-172,126	-215,604	-431,313
5241	0,000	4,549	-86,660	-173,051	-225,817	-451,738
5242	0,000	4,824	-86,273	-172,261	-235,616	-471,336
5249	0,000	4,000	-84,979	-169,725	-205,080	-410,267
5327	2,217	2,000	-27,500	-54,993	-165,983	-332,061
5328	2,091	2,000	-29,709	-59,405	-164,823	-329,740
5329	1,964	2,000	-31,876	-63,735	-163,496	-327,084
5333	1,838	2,000	-33,998	-67,973	-162,005	-324,102
5359	2,343	2,000	-25,257	-50,510	-166,971	-334,040
5363	2,765	2,000	-17,557	-35,128	-168,986	-338,082
5364	2,624	2,000	-20,149	-40,305	-168,538	-337,182
5365	2,483	2,000	-22,718	-45,438	-167,866	-335,833
5469	0,000	7,588	37,865	75,200	-280,750	-561,586
5470	0,000	7,725	55,108	109,564	-280,614	-561,324
5471	0,000	7,863	73,190	145,635	-281,089	-562,265
5472	0,000	8,000	91,735	182,622	-281,329	-563,091
5473	0,750	8,000	110,695	219,837	-415,900	-831,971
5474	0,500	8,000	102,716	204,264	-360,339	-720,940
5475	0,250	8,000	96,391	191,856	-317,684	-635,660
5479	0,000	7,451	21,931	43,482	-281,233	-562,558

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5511	20,000	-12,667	0,000	0,000	8,881	17,798
5515	20,000	-12,056	0,000	0,000	10,318	20,678
5516	20,000	-11,444	0,000	0,000	11,859	23,765
5517	20,000	-10,833	0,000	0,000	13,506	27,065
5687	1,000	8,000	109,365	217,781	-505,417	-1,011
5691	2,500	8,000	18,407	37,164	-739,028	-1,478
5692	2,000	8,000	50,841	101,739	-705,205	-1,410
5693	1,500	8,000	81,947	163,577	-639,468	-1,279
5733	20,000	-10,222	0,000	0,000	15,265	30,589
5737	20,000	-9,611	0,000	0,000	17,138	34,342
5738	20,000	-9,000	0,000	0,000	19,129	38,331
5739	20,000	-8,389	0,000	0,000	21,241	42,562
5811	3,377	2,000	-6,236	-12,505	-168,286	-336,705
5812	3,220	2,000	-9,130	-18,288	-168,876	-337,879
5813	3,063	2,000	-12,039	-24,101	-169,184	-338,488
5817	2,906	2,000	-14,952	-29,922	-169,207	-338,528
5843	3,534	2,000	-3,369	-6,776	-167,416	-334,972
5847	4,059	2,000	5,894	11,739	-162,536	-325,240
5848	3,884	2,000	2,877	5,708	-164,490	-329,139
5849	3,709	2,000	-215,297	-472,355	-166,120	-332,390
5881	3,000	8,000	-11,565	-22,465	-749,804	-1,499
5885	4,500	8,000	-105,280	-208,398	-638,298	-1,276
5886	4,000	8,000	-74,655	-147,932	-705,113	-1,410
5887	3,500	8,000	-41,747	-82,488	-738,919	-1,478
5945	4,820	2,000	17,830	35,609	-150,612	-301,432
5946	4,625	2,000	14,976	29,901	-154,164	-308,526
5947	4,429	2,000	11,969	23,886	-157,392	-314,971
5951	4,234	2,000	8,822	17,593	-160,270	-320,718
5977	5,016	2,000	20,519	40,989	-146,761	-293,739
5978	5,670	2,000	28,221	56,404	-132,053	-264,345
5979	5,452	2,000	25,883	51,723	-137,229	-274,691

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5980	5,234	2,000	23,314	46,581	-142,145	-284,515
5987	20,000	-7,778	0,000	0,000	23,475	47,036
5991	20,000	-7,167	0,000	0,000	25,830	51,755
5992	20,000	-6,556	0,000	0,000	28,306	56,714
5993	20,000	-5,944	0,000	0,000	30,897	61,904
6113	20,000	-5,333	0,000	0,000	33,598	67,312
6117	20,000	-4,722	0,000	0,000	36,396	72,916
6118	20,000	-4,111	0,000	0,000	39,279	78,688
6119	20,000	-3,500	0,000	0,000	42,227	84,593
6171	5,000	8,000	-132,866	-261,797	-501,527	-1,002
6175	6,875	8,000	-91,409	-186,030	-185,829	-374,237
6176	6,250	8,000	-110,552	-219,130	-245,950	-494,965
6177	5,625	8,000	-128,656	-249,460	-333,382	-671,028
6191	6,617	2,000	35,681	71,351	-107,481	-215,202
6192	6,374	2,000	34,177	68,337	-114,013	-228,271
6193	6,131	2,000	32,395	64,764	-120,422	-241,088
6197	5,888	2,000	30,324	60,616	-126,656	-253,555
6223	6,860	2,000	36,914	73,826	-100,869	-201,973
6224	7,674	2,000	39,281	78,581	-78,691	-157,577
6225	7,403	2,000	38,772	77,557	-86,044	-172,299
6226	7,132	2,000	37,991	75,988	-93,453	-187,129
6345	7,500	8,000	-78,698	-163,840	-139,338	-279,659
6349	9,375	8,000	-57,572	-116,697	-49,276	-98,345
6350	8,750	8,000	-64,740	-131,468	-73,523	-146,746
6351	8,125	8,000	-72,135	-147,503	-103,266	-206,276
6355	10,170	2,000	35,374	70,763	-18,641	-37,287
6356	9,832	2,000	36,491	73,003	-25,729	-51,488
6357	9,494	2,000	37,489	75,004	-33,172	-66,400
6361	9,157	2,000	38,336	76,701	-40,962	-82,007
6362	8,854	2,000	38,936	77,903	-48,228	-96,562
6363	8,551	2,000	39,359	78,748	-55,744	-111,619

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6364	8,248	2,000	39,572	79,172	-63,489	-127,132
6371	7,946	2,000	39,542	79,108	-71,433	-143,043
6401	11,638	2,000	29,720	59,425	8,088	16,252
6402	11,261	2,000	31,245	62,483	1,847	3,753
6403	10,884	2,000	32,734	65,469	-4,815	-9,591
6407	10,508	2,000	34,164	68,337	-11,909	-23,800
6417	20,000	-2,889	0,000	0,000	45,221	90,586
6421	20,000	-2,278	0,000	0,000	48,231	96,612
6422	20,000	-1,667	0,000	0,000	51,227	102,608
6423	20,000	-1,056	0,000	0,000	54,171	108,500
6449	12,015	2,000	28,177	56,332	13,920	27,931
6450	13,276	2,000	23,038	46,039	30,687	61,498
6451	12,855	2,000	24,734	49,435	25,548	51,213
6452	12,435	2,000	26,451	52,873	19,967	40,039
6495	20,000	-0,444	0,000	0,000	57,023	114,207
6499	20,000	0,167	0,000	0,000	59,738	119,637
6500	20,000	0,778	0,000	0,000	62,267	124,693
6501	20,000	1,389	0,000	0,000	64,558	129,272
6531	10,000	8,000	-51,139	-103,561	-29,450	-58,682
6535	11,875	8,000	-35,827	-72,387	12,366	24,912
6536	11,250	8,000	-40,349	-81,565	775,830	1,751
6537	10,625	8,000	-45,430	-91,902	-12,984	-25,750
6541	15,103	2,000	16,041	32,036	48,394	96,932
6542	14,634	2,000	17,772	35,499	44,517	89,177
6543	14,165	2,000	19,549	39,054	40,196	80,529
6553	13,696	2,000	21,371	42,700	35,404	70,939
6579	15,572	2,000	14,354	28,665	51,847	103,841
6580	17,142	2,000	9,004	17,976	60,580	121,311
6581	16,619	2,000	10,742	21,447	58,131	116,412
6582	16,095	2,000	12,524	25,007	55,227	110,603
6625	12,500	8,000	-31,782	-64,190	22,187	44,538

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc

Node	x-coord.	y-coord.	dUx	Ux	dUy	Uy
No.			[10 ⁻⁶ m]	[10 ⁻⁶ m]	[10 ⁻⁶ m]	[10 ⁻³ m]
6629	14,375	8,000	-21,765	-43,925	43,794	87,710
6630	13,750	8,000	-24,814	-50,089	37,695	75,525
6631	13,125	8,000	-28,133	-56,803	30,555	61,258
6641	17,665	2,000	7,304	14,581	62,593	125,336
6642	19,416	2,000	1,802	3,596	66,316	132,783
6643	18,833	2,000	3,613	7,212	65,579	131,307
6644	18,249	2,000	5,444	10,867	64,341	128,832
6661	20,000	2,000	0,000	0,000	66,562	133,273
6665	20,000	2,500	0,000	0,000	66,996	134,147
6666	20,000	3,000	0,000	0,000	67,423	135,004
6667	20,000	3,500	0,000	0,000	67,822	135,802
6671	20,000	4,000	0,000	0,000	68,170	136,496
6675	20,000	4,500	0,000	0,000	68,443	137,036
6676	20,000	5,000	0,000	0,000	68,616	137,377
6677	20,000	5,500	0,000	0,000	68,672	137,480
6678	15,000	8,000	-18,932	-38,202	48,994	98,099
6687	20,000	6,000	0,000	0,000	68,593	137,314
6694	16,875	8,000	-11,316	-22,825	60,125	120,341
6695	16,250	8,000	-13,740	-27,718	57,088	114,271
6696	15,625	8,000	-16,269	-32,823	53,398	106,899
6697	17,500	8,000	-8,969	-18,090	62,559	125,204
6717	18,125	8,000	-6,681	-13,474	64,419	128,920
6718	20,000	7,000	0,000	0,000	67,991	136,085
6719	20,000	7,500	0,000	0,000	67,457	135,006
6720	19,375	8,000	-2,210	-4,458	66,514	133,106
6721	20,000	8,000	0,000	0,000	66,773	133,625
6723	20,000	6,500	0,000	0,000	68,369	136,853

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

7. Results for phase 2

Table [11] Table of deformations phase no: 2

Node No.	x-coord.	y-coord.	dUx [10⁻⁶ m]	Ux [10⁻⁶ m]	dUy [10⁻⁶ m]	Uy [10⁻³ m]
4	-20,000	-10,833	0,000	0,000	14,613	80,741
5	-20,000	-11,444	0,000	0,000	13,132	72,126
6	-20,000	-12,056	0,000	0,000	11,678	63,774
19	-20,000	-13,278	0,000	0,000	8,890	48,010
20	-20,000	-13,889	0,000	0,000	7,574	40,679
21	-20,000	-14,500	0,000	0,000	6,322	33,772
28	-20,000	-12,667	0,000	0,000	10,261	55,722
29	-20,000	-15,111	0,000	0,000	5,145	27,335
33	-20,000	-15,722	0,000	0,000	4,054	21,419
34	-20,000	-16,333	0,000	0,000	3,061	16,079
35	-20,000	-16,944	0,000	0,000	2,179	11,375
51	-20,000	-17,556	0,000	0,000	1,423	7,373
52	-20,000	-20,000	0,000	0,000	0,000	0,000
53	-19,412	-20,000	0,000	0,000	0,000	0,000
54	-18,824	-20,000	0,000	0,000	0,000	0,000
55	-18,235	-20,000	0,000	0,000	0,000	0,000
59	-20,000	-18,167	0,000	0,000	807,950	4,148
60	-20,000	-18,778	0,000	0,000	352,652	1,783
61	-20,000	-19,389	0,000	0,000	76,160	367,476
96	-20,000	-10,222	0,000	0,000	16,115	89,584
97	-20,000	-8,389	0,000	0,000	20,652	117,094
98	-20,000	-9,000	0,000	0,000	19,143	107,798
99	-20,000	-9,611	0,000	0,000	17,628	98,615
135	-20,000	-7,778	0,000	0,000	22,147	126,467
139	-20,000	-5,944	0,000	0,000	26,454	154,622
140	-20,000	-6,556	0,000	0,000	25,057	145,273

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
141	-20,000	-7,167	0,000	0,000	23,618	135,874
167	-17,647	-20,000	0,000	0,000	0,000	0,000
171	-17,059	-20,000	0,000	0,000	0,000	0,000
172	-16,471	-20,000	0,000	0,000	0,000	0,000
173	-15,882	-20,000	0,000	0,000	0,000	0,000
217	-20,000	-5,333	0,000	0,000	27,800	163,875
221	-20,000	-3,500	0,000	0,000	31,443	190,586
222	-20,000	-4,111	0,000	0,000	30,304	181,906
223	-20,000	-4,722	0,000	0,000	29,087	172,987
285	-15,294	-20,000	0,000	0,000	0,000	0,000
289	-14,706	-20,000	0,000	0,000	0,000	0,000
290	-14,118	-20,000	0,000	0,000	0,000	0,000
291	-13,529	-20,000	0,000	0,000	0,000	0,000
407	-20,000	-2,889	0,000	0,000	32,495	198,977
411	-20,000	-1,056	0,000	0,000	35,048	221,900
412	-20,000	-1,667	0,000	0,000	34,306	214,684
413	-20,000	-2,278	0,000	0,000	33,452	207,026
451	-12,941	-20,000	0,000	0,000	0,000	0,000
455	-12,353	-20,000	0,000	0,000	0,000	0,000
456	-11,765	-20,000	0,000	0,000	0,000	0,000
457	-11,176	-20,000	0,000	0,000	0,000	0,000
551	-20,000	-0,444	0,000	0,000	35,673	228,629
555	-20,000	1,389	0,000	0,000	36,777	245,442
556	-20,000	0,778	0,000	0,000	36,542	240,440
557	-20,000	0,167	0,000	0,000	36,172	234,823
561	-10,588	-20,000	0,000	0,000	0,000	0,000
565	-10,000	-20,000	0,000	0,000	0,000	0,000
566	-9,412	-20,000	0,000	0,000	0,000	0,000
567	-8,824	-20,000	0,000	0,000	0,000	0,000
785	-8,235	-20,000	0,000	0,000	0,000	0,000
789	-7,647	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
790	-7,059	-20,000	0,000	0,000	0,000	0,000
791	-6,471	-20,000	0,000	0,000	0,000	0,000
833	-16,095	2,000	-118,400	-26,276	33,687	235,023
834	-16,619	2,000	-115,673	-22,742	34,499	238,792
835	-17,142	2,000	-107,217	-19,215	35,186	241,979
839	-18,249	2,000	-74,661	-11,767	36,246	246,891
840	-18,833	2,000	-51,761	-7,843	36,596	248,511
841	-19,416	2,000	-26,482	-3,921	36,805	249,478
845	-17,665	2,000	-93,973	-15,693	35,753	244,605
855	-20,000	2,000	0,000	0,000	36,875	249,799
856	-20,000	3,500	0,000	0,000	36,710	253,460
857	-20,000	3,000	0,000	0,000	36,803	252,442
858	-20,000	2,500	0,000	0,000	36,858	251,219
865	-20,000	4,000	0,000	0,000	36,577	254,266
866	-18,273	4,000	1,251	-5,023	35,934	251,366
867	-18,849	4,000	834,512	-3,342	36,292	252,981
868	-19,424	4,000	417,464	-1,669	36,506	253,945
869	-20,000	5,500	0,000	0,000	35,916	255,321
870	-20,000	5,000	0,000	0,000	36,182	255,203
871	-20,000	4,500	0,000	0,000	36,401	254,850
875	-5,882	-20,000	0,000	0,000	0,000	0,000
879	-5,294	-20,000	0,000	0,000	0,000	0,000
880	-4,706	-20,000	0,000	0,000	0,000	0,000
881	-4,118	-20,000	0,000	0,000	0,000	0,000
919	-20,000	6,000	0,000	0,000	35,604	255,202
923	-20,000	8,000	0,000	0,000	33,872	252,366
924	-20,000	7,500	0,000	0,000	34,378	253,418
925	-20,000	7,000	0,000	0,000	34,835	254,247
926	-20,000	6,500	0,000	0,000	35,244	254,844
927	-18,285	8,000	4,244	9,338	33,226	249,452
928	-18,857	8,000	2,827	6,207	33,585	251,074

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
929	-19,428	8,000	1,413	3,097	33,800	252,044
1051	-15,572	2,000	-114,435	-29,817	32,747	230,650
1052	-14,165	2,000	-62,513	-39,397	29,539	215,693
1053	-14,634	2,000	-87,334	-36,192	30,723	221,221
1054	-15,103	2,000	-104,373	-33,000	31,790	226,199
1061	-16,077	4,000	2,820	-11,611	33,186	238,980
1062	-16,617	4,000	2,438	-9,953	34,072	242,976
1063	-17,157	4,000	2,053	-8,324	34,818	246,340
1067	-17,698	4,000	1,665	-6,717	35,429	249,091
1077	-15,536	4,000	3,197	-13,304	32,154	234,325
1078	-14,014	4,000	4,229	-18,360	28,409	217,417
1079	-14,521	4,000	3,892	-16,617	29,801	223,706
1080	-15,029	4,000	3,547	-14,936	31,047	229,331
1119	-13,696	2,000	-29,047	-42,617	28,234	209,589
1123	-12,435	2,000	111,237	-51,368	24,084	190,079
1124	-12,855	2,000	55,559	-48,433	25,576	197,110
1125	-13,276	2,000	9,053	-45,517	26,958	203,605
1173	-3,529	-20,000	0,000	0,000	0,000	0,000
1177	-2,941	-20,000	0,000	0,000	0,000	0,000
1178	-2,353	-20,000	0,000	0,000	0,000	0,000
1179	-1,765	-20,000	0,000	0,000	0,000	0,000
1212	-17,713	8,000	5,665	12,504	32,720	247,168
1213	-16,150	8,000	9,579	21,429	30,560	237,427
1214	-16,671	8,000	8,269	18,403	31,409	241,257
1215	-17,192	8,000	6,965	15,431	32,128	244,499
1219	-1,176	-20,000	0,000	0,000	0,000	0,000
1223	-0,588	-20,000	0,000	0,000	0,000	0,000
1224	0,000	-20,000	0,000	0,000	0,000	0,000
1225	0,588	-20,000	0,000	0,000	0,000	0,000
1238	-15,628	8,000	10,894	24,517	29,576	232,990
1239	-14,203	8,000	14,515	33,339	26,158	217,568

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1240	-14,678	8,000	13,305	30,332	27,420	223,264
1241	-15,153	8,000	12,098	27,393	28,558	228,397
1421	-13,507	4,000	4,559	-20,176	26,865	210,429
1422	-12,077	4,000	5,427	-25,839	21,622	186,622
1423	-12,554	4,000	5,149	-23,846	23,524	195,275
1424	-13,030	4,000	4,859	-21,964	25,269	203,196
1469	-12,015	2,000	176,902	-54,323	22,476	182,484
1473	-10,884	2,000	409,884	-62,391	17,540	159,023
1474	-11,261	2,000	322,364	-59,681	19,289	167,362
1475	-11,638	2,000	244,935	-56,992	20,933	175,174
1495	-13,727	8,000	15,726	36,420	24,768	211,286
1499	-12,428	8,000	19,034	45,267	20,261	190,878
1500	-12,861	8,000	17,934	42,245	21,882	198,231
1501	-13,294	8,000	16,831	39,298	23,383	205,025
1539	1,176	-20,000	0,000	0,000	0,000	0,000
1543	1,765	-20,000	0,000	0,000	0,000	0,000
1544	2,353	-20,000	0,000	0,000	0,000	0,000
1545	2,941	-20,000	0,000	0,000	0,000	0,000
1593	-11,601	4,000	5,692	-27,965	19,556	177,191
1597	-11,154	4,000	5,926	-30,102	17,458	167,581
1598	-10,706	4,000	6,144	-32,397	15,198	157,189
1599	-10,259	4,000	6,345	-34,876	12,769	145,961
1667	-10,508	2,000	508,216	-65,124	15,682	150,131
1668	-9,494	2,000	832,238	-72,600	10,102	123,235
1669	-9,832	2,000	713,988	-70,087	12,060	132,708
1670	-10,170	2,000	606,166	-67,595	13,919	141,665
1747	3,529	-20,000	0,000	0,000	0,000	0,000
1751	4,118	-20,000	0,000	0,000	0,000	0,000
1752	4,706	-20,000	0,000	0,000	0,000	0,000
1753	5,294	-20,000	0,000	0,000	0,000	0,000
1773	-11,994	8,000	20,128	48,367	18,514	182,937

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1777	-10,809	8,000	23,066	57,285	13,048	157,943
1778	-11,204	8,000	22,098	54,237	14,986	166,837
1779	-11,599	8,000	21,118	51,266	16,807	175,159
2063	-9,157	2,000	961,470	-75,133	8,040	113,219
2067	-8,248	2,000	1,367	-82,047	1,951	83,388
2068	-8,551	2,000	1,222	-79,727	4,072	93,824
2069	-8,854	2,000	1,087	-77,422	6,101	103,761
2073	-7,946	2,000	1,523	-84,380	-267,212	72,429
2077	-7,132	2,000	1,992	-90,703	-6,736	40,187
2078	-7,403	2,000	1,827	-88,590	-4,495	51,403
2079	-7,674	2,000	1,671	-86,481	-2,340	62,144
2083	-10,414	8,000	24,018	60,415	10,987	148,442
2087	-9,334	8,000	26,506	69,429	4,682	119,033
2088	-9,694	8,000	25,699	66,346	6,896	129,428
2089	-10,054	8,000	24,868	63,342	8,997	139,219
2115	5,882	-20,000	0,000	0,000	0,000	0,000
2116	6,471	-20,000	0,000	0,000	0,000	0,000
2117	7,059	-20,000	0,000	0,000	0,000	0,000
2118	7,647	-20,000	0,000	0,000	0,000	0,000
2215	-8,552	4,000	6,901	-46,548	1,774	94,226
2216	-8,972	4,000	6,799	-43,292	4,749	108,392
2217	-9,392	4,000	6,673	-40,308	7,542	121,571
2221	-9,812	4,000	6,525	-37,565	10,162	133,835
2275	-8,974	8,000	27,284	72,599	2,349	107,993
2279	-7,989	8,000	29,232	81,746	-4,672	74,121
2280	-8,317	8,000	28,617	78,614	-2,224	86,052
2281	-8,645	8,000	27,966	75,566	114,849	97,328
2423	-8,132	4,000	6,976	-50,107	-1,392	78,994
2427	-6,949	4,000	7,018	-62,077	-11,408	29,545
2428	-7,343	4,000	7,034	-57,736	-7,882	47,190
2429	-7,737	4,000	7,019	-53,757	-4,546	63,642

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
2433	-6,860	2,000	2,165	-92,818	-9,064	28,479
2434	-6,131	2,000	2,667	-98,479	-15,782	-5,595
2435	-6,374	2,000	2,494	-96,599	-13,467	6,197
2436	-6,617	2,000	2,326	-94,711	-11,228	17,550
2517	8,235	-20,000	0,000	0,000	0,000	0,000
2521	8,824	-20,000	0,000	0,000	0,000	0,000
2522	9,412	-20,000	0,000	0,000	0,000	0,000
2523	10,000	-20,000	0,000	0,000	0,000	0,000
2559	-5,234	2,000	3,340	-105,249	-25,018	-53,109
2560	-5,452	2,000	3,173	-103,636	-22,671	-40,963
2561	-5,670	2,000	3,008	-102,000	-20,390	-29,209
2565	-5,888	2,000	2,845	-100,344	-18,176	-17,839
2581	-5,016	2,000	3,508	-106,832	-27,434	-65,656
2585	-4,429	2,000	3,950	-110,893	-34,278	-101,437
2586	-4,625	2,000	3,805	-109,576	-31,940	-89,174
2587	-4,820	2,000	3,657	-108,221	-29,659	-77,248
2709	-7,660	8,000	29,807	84,967	-7,231	61,488
2713	-6,762	8,000	31,128	94,269	-14,830	22,896
2714	-7,062	8,000	30,733	91,084	-12,197	36,466
2715	-7,361	8,000	30,291	87,985	-9,665	49,314
2805	-6,463	8,000	31,470	97,540	-17,566	8,545
2809	-5,644	8,000	32,089	106,879	-25,597	-35,214
2810	-5,917	8,000	31,939	103,718	-22,829	-19,844
2811	-6,190	8,000	31,731	100,598	-20,153	-5,275
2999	10,588	-20,000	0,000	0,000	0,000	0,000
3003	11,176	-20,000	0,000	0,000	0,000	0,000
3004	11,765	-20,000	0,000	0,000	0,000	0,000
3005	12,353	-20,000	0,000	0,000	0,000	0,000
3115	-6,554	4,000	6,969	-66,810	-15,130	10,605
3116	-5,444	4,000	6,633	-82,498	-26,720	-50,732
3117	-5,814	4,000	6,780	-76,860	-22,672	-28,864

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3118	-6,184	4,000	6,891	-71,637	-18,810	-8,456
3151	-3,709	2,000	4,436	-115,321	-43,408	-149,634
3152	-3,884	2,000	4,328	-114,317	-41,117	-137,493
3153	-4,059	2,000	4,212	-113,264	-38,872	-125,629
3157	-4,234	2,000	4,091	-112,166	-36,675	-114,041
3173	-3,534	2,000	4,535	-116,269	-45,747	-162,050
3177	-3,063	2,000	4,743	-118,498	-52,270	-196,780
3178	-3,220	2,000	4,684	-117,811	-50,058	-184,988
3179	-3,377	2,000	4,614	-117,066	-47,884	-173,410
3199	0,000	-3,325	-273,783	-90,313	-101,648	-353,657
3200	0,000	-3,250	-219,888	-90,594	-101,678	-355,014
3201	0,000	-3,175	-172,563	-90,890	-101,710	-356,379
3205	0,000	-3,100	-131,247	-91,199	-101,742	-357,752
3206	0,000	-3,025	-95,427	-91,521	-101,775	-359,132
3207	0,000	-2,950	-64,580	-91,854	-101,809	-360,520
3208	0,000	-2,875	-38,221	-92,198	-101,844	-361,915
3215	0,000	-3,625	-565,716	-89,360	-101,535	-348,315
3216	0,000	-3,550	-480,460	-89,571	-101,562	-349,638
3217	0,000	-3,475	-403,527	-89,801	-101,589	-350,969
3221	0,000	-3,400	-334,798	-90,048	-101,618	-352,309
3231	0,000	-3,700	-660,853	-89,170	-101,511	-347,003
3232	0,000	-3,925	-1,002	-88,721	-101,449	-343,129
3233	0,000	-3,850	-881,192	-88,855	-101,466	-344,406
3234	0,000	-3,775	-764,529	-88,999	-101,488	-345,700
3289	0,000	-2,425	49,527	-94,434	-102,061	-370,436
3290	0,000	-2,350	55,758	-94,828	-102,099	-371,880
3291	0,000	-2,275	60,370	-95,227	-102,137	-373,330
3295	0,000	-2,500	41,420	-94,045	-102,024	-368,999
3296	0,000	-2,725	2,856	-92,914	-101,914	-364,728
3297	0,000	-2,650	18,412	-93,284	-101,950	-366,144
3298	0,000	-2,575	31,152	-93,661	-101,987	-367,568

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3305	0,000	-2,800	-15,887	-92,551	-101,879	-363,318
3315	0,000	-2,125	65,636	-96,037	-102,214	-376,249
3316	0,000	-2,050	66,682	-96,447	-102,253	-377,718
3317	0,000	-1,975	66,895	-96,859	-102,292	-379,193
3321	0,000	-2,200	63,593	-95,630	-102,175	-374,786
3337	0,000	-4,000	-1,151	-88,646	-101,424	-341,842
3403	-5,073	4,000	6,451	-88,561	-30,957	-74,186
3407	-4,030	4,000	5,734	-107,905	-43,911	-149,997
3408	-4,378	4,000	6,007	-101,101	-39,427	-123,001
3409	-4,726	4,000	6,246	-94,645	-35,109	-97,773
3429	-5,371	8,000	32,175	110,049	-28,457	-51,458
3433	-4,625	8,000	32,031	120,146	-36,773	-100,650
3434	-4,873	8,000	32,142	116,448	-33,918	-83,206
3435	-5,122	8,000	32,191	112,930	-31,149	-66,887
3439	12,941	-20,000	0,000	0,000	0,000	0,000
3443	13,529	-20,000	0,000	0,000	0,000	0,000
3444	14,118	-20,000	0,000	0,000	0,000	0,000
3445	14,706	-20,000	0,000	0,000	0,000	0,000
3513	0,000	-1,525	57,626	-99,372	-102,532	-388,158
3514	0,000	-1,450	55,173	-99,795	-102,573	-389,671
3515	0,000	-1,375	52,632	-100,218	-102,613	-391,188
3519	0,000	-1,600	59,940	-98,950	-102,492	-386,651
3520	0,000	-1,825	65,383	-97,690	-102,371	-382,159
3521	0,000	-1,750	63,896	-98,109	-102,411	-383,651
3522	0,000	-1,675	62,054	-98,529	-102,451	-385,148
3529	0,000	-1,900	66,420	-97,274	-102,332	-380,673
3561	-4,376	8,000	31,811	123,142	-39,710	-119,131
3565	-3,695	8,000	30,848	133,899	-48,118	-174,679
3566	-3,922	8,000	31,235	129,917	-45,240	-154,968
3567	-4,149	8,000	31,541	126,068	-42,440	-136,543
3625	0,000	0,875	5,535	-111,976	-103,847	-437,861

**RELAZIONE DI CALCOLO OPERE
PROVVISIONALI**

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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3626	0,000	0,950	4,848	-112,281	-103,887	-439,406
3627	0,000	1,025	4,188	-112,576	-103,928	-440,946
3631	0,000	1,100	3,545	-112,858	-103,968	-442,480
3632	0,000	1,175	2,908	-113,128	-104,008	-444,009
3633	0,000	1,250	2,270	-113,385	-104,048	-445,531
3634	0,000	1,325	1,633	-113,627	-104,088	-447,045
3657	0,000	1,400	996,350	-113,855	-104,128	-448,552
3658	0,000	1,475	354,604	-114,065	-104,168	-450,051
3659	0,000	1,550	-294,863	-114,259	-104,207	-451,541
3660	0,000	1,625	-953,107	-114,434	-104,247	-453,021
3731	-2,483	2,000	4,833	-120,454	-60,752	-242,054
3732	-2,624	2,000	4,832	-120,069	-58,645	-230,806
3733	-2,765	2,000	4,817	-119,624	-56,568	-219,714
3734	-2,906	2,000	4,788	-119,122	-54,520	-208,782
3741	-2,343	2,000	4,819	-120,773	-62,888	-253,450
3742	-1,964	2,000	4,690	-121,283	-68,773	-284,785
3743	-2,091	2,000	4,749	-121,172	-66,788	-274,234
3744	-2,217	2,000	4,791	-121,001	-64,827	-263,787
3787	-1,499	2,000	4,310	-121,135	-76,287	-324,504
3788	-1,612	2,000	4,428	-121,255	-74,433	-314,748
3789	-1,725	2,000	4,529	-121,320	-72,597	-305,057
3793	-1,386	2,000	4,174	-120,958	-78,160	-334,317
3794	-1,082	2,000	3,705	-120,198	-83,291	-360,954
3795	-1,183	2,000	3,879	-120,498	-81,564	-352,039
3796	-1,285	2,000	4,035	-120,752	-79,854	-343,158
3803	-1,838	2,000	4,613	-121,332	-70,779	-295,434
3889	0,000	-0,625	28,829	-104,433	-103,025	-406,586
3890	0,000	-0,550	26,920	-104,848	-103,066	-408,145
3891	0,000	-0,475	25,114	-105,261	-103,108	-409,705
3895	0,000	-0,400	23,408	-105,671	-103,149	-411,267
3896	0,000	-0,325	21,799	-106,080	-103,191	-412,832

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3897	0,000	-0,250	20,285	-106,485	-103,232	-414,398
3898	0,000	-0,175	18,861	-106,887	-103,273	-415,965
3905	0,000	-0,925	37,476	-102,756	-102,860	-400,383
3906	0,000	-0,850	35,168	-103,177	-102,901	-401,929
3907	0,000	-0,775	32,955	-103,597	-102,942	-403,479
3911	0,000	-0,700	30,841	-104,016	-102,984	-405,031
3921	0,000	-1,000	39,871	-102,334	-102,818	-398,841
3922	0,000	-1,225	47,451	-101,065	-102,695	-394,236
3923	0,000	-1,150	44,875	-101,489	-102,736	-395,767
3924	0,000	-1,075	42,342	-101,912	-102,777	-397,302
3931	0,000	-1,300	50,046	-100,642	-102,654	-392,710
3941	0,000	0,275	11,922	-109,216	-103,521	-425,380
3942	0,000	0,350	10,984	-109,586	-103,562	-426,948
3943	0,000	0,425	10,095	-109,951	-103,603	-428,514
3947	0,000	0,200	12,913	-108,840	-103,480	-423,811
3948	0,000	-0,025	16,262	-107,681	-103,356	-419,103
3949	0,000	0,050	15,078	-108,072	-103,397	-420,672
3950	0,000	0,125	13,963	-108,458	-103,438	-422,242
3957	0,000	0,500	9,251	-110,308	-103,644	-430,079
3958	0,000	0,575	8,445	-110,658	-103,685	-431,641
3959	0,000	0,650	7,675	-111,001	-103,725	-433,201
3960	0,000	0,725	6,935	-111,335	-103,766	-434,758
3967	0,000	-0,100	17,521	-107,286	-103,315	-417,534
3977	-0,708	2,000	2,887	-118,691	-89,823	-394,108
3978	-0,799	2,000	3,114	-119,113	-88,209	-386,016
3979	-0,890	2,000	3,322	-119,500	-86,613	-377,948
3983	-0,618	2,000	2,639	-118,236	-91,458	-402,221
3984	-0,373	2,000	1,854	-116,870	-96,003	-424,206
3985	-0,455	2,000	2,140	-117,339	-94,459	-416,844
3986	-0,536	2,000	2,400	-117,797	-92,946	-409,518
3993	-0,981	2,000	3,512	-119,851	-85,034	-369,903

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4087	0,000	0,800	6,222	-111,660	-103,807	-436,311
4103	0,000	1,700	-1,616	-114,590	-104,287	-454,491
4104	0,000	1,775	-2,293	-114,724	-104,326	-455,950
4105	0,000	1,850	-2,985	-114,837	-104,366	-457,397
4106	0,000	1,925	-3,691	-114,926	-104,406	-458,832
4129	15,294	-20,000	0,000	0,000	0,000	0,000
4133	15,882	-20,000	0,000	0,000	0,000	0,000
4134	16,471	-20,000	0,000	0,000	0,000	0,000
4135	17,059	-20,000	0,000	0,000	0,000	0,000
4209	-3,683	4,000	5,427	-115,017	-48,555	-178,895
4213	-2,703	4,000	4,394	-136,046	-62,445	-271,656
4214	-3,030	4,000	4,765	-128,964	-57,690	-238,764
4215	-3,356	4,000	5,110	-121,919	-53,057	-207,877
4225	-0,292	2,000	1,536	-116,402	-97,588	-431,620
4226	-0,073	2,000	345,833	-115,491	-102,266	-452,214
4227	-0,146	2,000	890,785	-115,550	-100,607	-445,182
4228	-0,219	2,000	1,274	-115,881	-99,062	-438,345
4235	0,000	2,000	-4,413	-114,990	-104,445	-460,254
4236	0,000	2,071	-5,117	-118,161	-104,484	-465,940
4237	0,000	2,143	-5,838	-121,223	-104,522	-471,639
4238	0,000	2,214	-6,574	-124,179	-104,561	-477,352
4239	0,219	2,000	-1,282	-113,624	-99,060	-460,291
4240	0,146	2,000	-898,826	-114,217	-100,606	-459,822
4241	0,073	2,000	-354,241	-114,435	-102,265	-459,537
4245	-3,468	8,000	30,348	137,319	-51,065	-195,947
4249	-2,848	8,000	28,533	146,950	-59,463	-258,763
4250	-3,055	8,000	29,220	143,019	-56,602	-236,449
4251	-3,261	8,000	29,824	139,424	-53,805	-215,590
4255	-2,641	8,000	27,685	149,753	-62,378	-282,408
4259	-2,075	8,000	24,962	159,990	-70,564	-353,716
4260	-2,264	8,000	25,949	156,370	-67,779	-328,418

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4261	-2,452	8,000	26,826	152,450	-65,054	-304,767
4399	-2,377	4,000	3,999	-143,027	-67,313	-306,636
4403	-1,458	4,000	2,757	-160,530	-81,558	-416,752
4404	-1,764	4,000	3,194	-155,243	-76,729	-378,146
4405	-2,071	4,000	3,607	-149,340	-71,979	-341,433
4425	17,647	-20,000	0,000	0,000	0,000	0,000
4429	18,235	-20,000	0,000	0,000	0,000	0,000
4430	18,824	-20,000	0,000	0,000	0,000	0,000
4431	19,412	-20,000	0,000	0,000	0,000	0,000
4432	20,000	-20,000	0,000	0,000	0,000	0,000
4433	20,000	-19,389	0,000	0,000	76,161	105,419
4434	20,000	-18,778	0,000	0,000	352,644	999,464
4435	20,000	-18,167	0,000	0,000	807,936	2,588
4597	0,536	2,000	-2,408	-109,343	-92,940	-462,954
4598	0,455	2,000	-2,148	-110,595	-94,454	-462,254
4599	0,373	2,000	-1,861	-111,729	-95,999	-461,546
4603	0,292	2,000	-1,546	-112,737	-97,587	-460,858
4613	0,000	2,286	-7,326	-127,032	-104,599	-483,078
4614	0,000	2,429	-8,876	-132,443	-104,674	-494,564
4615	0,000	2,571	-10,485	-137,479	-104,748	-506,091
4616	0,000	2,714	-12,157	-142,160	-104,821	-517,650
4629	0,618	2,000	-2,645	-107,981	-91,453	-463,637
4633	0,890	2,000	-3,328	-102,732	-86,605	-465,593
4634	0,799	2,000	-3,120	-104,601	-88,202	-465,007
4635	0,708	2,000	-2,893	-106,353	-89,817	-464,351
4671	-1,887	8,000	23,777	161,692	-73,398	-380,831
4675	-1,371	8,000	20,004	170,596	-81,301	-461,319
4676	-1,543	8,000	21,389	167,699	-78,633	-432,775
4677	-1,715	8,000	22,645	164,621	-75,996	-405,793
4763	-1,199	8,000	18,506	173,522	-84,003	-491,544
4767	-0,728	8,000	13,478	180,456	-91,611	-584,773

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4768	-0,885	8,000	15,325	178,338	-89,045	-551,889
4769	-1,042	8,000	17,009	176,106	-86,508	-520,867
4859	-1,151	4,000	2,291	-164,968	-86,460	-457,160
4863	-0,288	4,000	677,958	-170,742	-100,613	-578,935
4864	-0,576	4,000	1,285	-170,137	-95,846	-537,305
4865	-0,863	4,000	1,816	-168,142	-91,124	-496,609
4911	20,000	-17,556	0,000	0,000	1,423	4,792
4912	20,000	-16,944	0,000	0,000	2,179	7,542
4913	20,000	-16,333	0,000	0,000	3,061	10,780
4914	20,000	-15,722	0,000	0,000	4,054	14,459
5011	0,000	2,857	-13,891	-146,501	-104,893	-529,229
5012	0,000	3,143	-17,538	-154,210	-105,031	-552,408
5013	0,000	3,429	-21,370	-160,665	-105,163	-575,531
5014	0,000	3,714	-25,402	-165,869	-105,289	-598,470
5031	0,981	2,000	-3,517	-100,750	-85,025	-466,099
5032	1,285	2,000	-4,038	-93,347	-79,843	-467,111
5033	1,183	2,000	-3,883	-95,941	-81,554	-466,900
5034	1,082	2,000	-3,710	-98,411	-83,281	-466,560
5047	1,386	2,000	-4,177	-90,633	-78,148	-467,184
5051	1,725	2,000	-4,531	-80,744	-72,583	-466,326
5052	1,612	2,000	-4,431	-84,170	-74,420	-466,810
5053	1,499	2,000	-4,313	-87,469	-76,274	-467,093
5133	20,000	-15,111	0,000	0,000	5,145	18,540
5137	20,000	-14,500	0,000	0,000	6,322	22,990
5138	20,000	-13,889	0,000	0,000	7,573	27,782
5139	20,000	-13,278	0,000	0,000	8,890	32,898
5197	-0,572	8,000	11,486	182,567	-94,216	-620,060
5201	-0,143	8,000	4,043	184,490	-102,249	-730,679
5202	-0,286	8,000	7,165	185,198	-99,352	-691,002
5203	-0,429	8,000	9,524	184,470	-96,717	-654,197
5207	0,000	6,216	-64,748	-126,128	-106,063	-760,301

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5208	0,000	6,410	-67,865	-110,777	-106,097	-766,543
5209	0,000	6,604	-71,031	-92,052	-106,126	-771,278
5213	0,000	6,798	-74,283	-69,384	-106,151	-774,413
5214	0,000	6,961	-77,142	-46,792	-106,169	-775,769
5215	0,000	7,124	-80,147	-20,531	-106,185	-776,099
5216	0,000	7,288	-83,355	9,589	-106,197	-775,692
5223	0,000	5,329	-50,594	-165,257	-105,859	-716,162
5224	0,000	5,560	-54,290	-158,980	-105,920	-729,749
5225	0,000	5,791	-57,973	-150,277	-105,976	-741,994
5229	0,000	6,022	-61,654	-138,612	-106,026	-752,661
5239	0,000	5,098	-46,885	-169,502	-105,793	-701,450
5240	0,000	4,275	-33,813	-172,173	-105,514	-642,339
5241	0,000	4,549	-38,110	-173,104	-105,615	-662,964
5242	0,000	4,824	-42,479	-172,321	-105,708	-682,747
5249	0,000	4,000	-29,620	-169,765	-105,407	-621,079
5327	2,217	2,000	-4,792	-64,572	-64,810	-461,682
5328	2,091	2,000	-4,749	-68,899	-66,772	-463,285
5329	1,964	2,000	-4,691	-73,112	-68,757	-464,599
5333	1,838	2,000	-4,615	-77,198	-70,765	-465,631
5359	2,343	2,000	-4,819	-60,144	-62,871	-459,782
5363	2,765	2,000	-4,816	-44,756	-56,549	-451,182
5364	2,624	2,000	-4,832	-49,965	-58,627	-454,438
5365	2,483	2,000	-4,833	-55,100	-60,734	-457,303
5469	0,000	7,588	-90,006	75,060	-106,212	-774,005
5470	0,000	7,725	-93,587	109,418	-106,215	-773,751
5471	0,000	7,863	-97,554	145,481	-106,217	-774,696
5472	0,000	8,000	-101,920	182,460	-106,216	-775,520
5473	0,750	8,000	-13,946	191,990	-91,254	-1,014
5474	0,500	8,000	-10,781	182,746	-95,496	-911,930
5475	0,250	8,000	-6,458	178,983	-100,101	-835,860
5479	0,000	7,451	-86,823	43,348	-106,206	-774,967

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5511	20,000	-12,667	0,000	0,000	10,260	38,320
5515	20,000	-12,056	0,000	0,000	11,677	44,034
5516	20,000	-11,444	0,000	0,000	13,130	50,027
5517	20,000	-10,833	0,000	0,000	14,612	56,291
5687	1,000	8,000	-16,737	184,354	-87,227	-1,185
5691	2,500	8,000	-27,285	-17,337	-64,380	-1,607
5692	2,000	8,000	-24,684	52,431	-71,694	-1,553
5693	1,500	8,000	-21,254	121,123	-79,302	-1,437
5733	20,000	-10,222	0,000	0,000	16,113	62,816
5737	20,000	-9,611	0,000	0,000	17,625	69,595
5738	20,000	-9,000	0,000	0,000	19,140	76,613
5739	20,000	-8,389	0,000	0,000	20,648	83,861
5811	3,377	2,000	-4,614	-21,730	-47,862	-432,434
5812	3,220	2,000	-4,683	-27,652	-50,037	-437,957
5813	3,063	2,000	-4,742	-33,582	-52,250	-442,991
5817	2,906	2,000	-4,787	-39,494	-54,500	-447,532
5843	3,534	2,000	-4,534	-15,842	-45,724	-426,427
5847	4,059	2,000	-4,213	3,315	-38,846	-402,940
5848	3,884	2,000	-4,328	-2,945	-41,092	-411,329
5849	3,709	2,000	-4,435	-9,341	-43,384	-419,165
5881	3,000	8,000	-29,247	-80,879	-57,370	-1,614
5885	4,500	8,000	-32,272	-272,794	-38,261	-1,353
5886	4,000	8,000	-31,630	-211,082	-44,291	-1,499
5887	3,500	8,000	-30,662	-143,716	-50,663	-1,579
5945	4,820	2,000	-3,660	28,290	-29,627	-360,698
5946	4,625	2,000	-3,807	22,287	-31,910	-372,357
5947	4,429	2,000	-3,952	15,984	-34,250	-383,480
5951	4,234	2,000	-4,092	9,410	-36,647	-394,021
5977	5,016	2,000	-3,511	33,967	-27,401	-348,555
5978	5,670	2,000	-3,014	50,376	-20,354	-305,069
5979	5,452	2,000	-3,179	45,367	-22,635	-319,977

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5980	5,234	2,000	-3,345	39,892	-24,984	-334,498
5987	20,000	-7,778	0,000	0,000	22,142	91,324
5991	20,000	-7,167	0,000	0,000	23,612	98,984
5992	20,000	-6,556	0,000	0,000	25,050	106,819
5993	20,000	-5,944	0,000	0,000	26,446	114,802
6113	20,000	-5,333	0,000	0,000	27,791	122,900
6117	20,000	-4,722	0,000	0,000	29,076	131,075
6118	20,000	-4,111	0,000	0,000	30,292	139,280
6119	20,000	-3,500	0,000	0,000	31,430	147,461
6171	5,000	8,000	-32,710	-326,983	-32,624	-1,067
6175	6,875	8,000	-30,830	-247,675	-13,602	-401,482
6176	6,250	8,000	-32,019	-283,033	-19,249	-533,576
6177	5,625	8,000	-33,105	-315,248	-25,253	-721,762
6191	6,617	2,000	-2,338	66,676	-11,188	-237,598
6192	6,374	2,000	-2,504	63,329	-13,427	-255,145
6193	6,131	2,000	-2,676	59,412	-15,743	-272,593
6197	5,888	2,000	-2,853	54,912	-18,138	-289,849
6223	6,860	2,000	-2,178	69,472	-9,025	-220,042
6224	7,674	2,000	-1,688	75,208	-2,303	-162,204
6225	7,403	2,000	-1,844	73,874	-4,457	-181,234
6226	7,132	2,000	-2,007	71,977	-6,697	-200,543
6345	7,500	8,000	-29,805	-223,305	-8,435	-296,546
6349	9,375	8,000	-25,972	-169,004	4,931	-88,489
6350	8,750	8,000	-27,258	-186,371	1,003	-144,926
6351	8,125	8,000	-28,943	-205,237	-3,432	-213,367
6355	10,170	2,000	-626,566	69,517	13,931	-9,435
6356	9,832	2,000	-735,016	71,541	12,076	-27,348
6357	9,494	2,000	-853,606	73,304	10,122	-46,170
6361	9,157	2,000	-982,859	74,742	8,064	-65,894
6362	8,854	2,000	-1,108	75,693	6,128	-84,323
6363	8,551	2,000	-1,243	76,268	4,103	-103,433

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6364	8,248	2,000	-1,387	76,403	1,984	-123,185
6371	7,946	2,000	-1,542	76,030	-231,974	-143,527
6401	11,638	2,000	-260,340	58,910	20,931	58,112
6402	11,261	2,000	-339,280	61,811	19,290	42,330
6403	10,884	2,000	-428,195	64,620	17,545	25,493
6407	10,508	2,000	-527,738	67,289	15,691	7,572
6417	20,000	-2,889	0,000	0,000	32,481	155,556
6421	20,000	-2,278	0,000	0,000	33,437	163,494
6422	20,000	-1,667	0,000	0,000	34,289	171,195
6423	20,000	-1,056	0,000	0,000	35,030	178,570
6449	12,015	2,000	-190,751	55,956	22,471	72,873
6450	13,276	2,000	-17,905	46,006	26,945	115,392
6451	12,855	2,000	-65,990	49,306	25,565	102,346
6452	12,435	2,000	-123,345	52,631	24,075	88,192
6495	20,000	-0,444	0,000	0,000	35,653	185,523
6499	20,000	0,167	0,000	0,000	36,152	191,951
6500	20,000	0,778	0,000	0,000	36,520	197,745
6501	20,000	1,389	0,000	0,000	36,755	202,794
6531	10,000	8,000	-24,784	-153,276	8,660	-41,351
6535	11,875	8,000	-20,322	-113,105	17,979	60,885
6536	11,250	8,000	-21,854	-125,366	15,171	32,109
6537	10,625	8,000	-23,348	-138,713	12,069	-1,597
6541	15,103	2,000	100,721	32,238	31,771	160,484
6542	14,634	2,000	82,619	35,665	30,704	150,594
6543	14,165	2,000	56,550	39,168	29,522	139,581
6553	13,696	2,000	21,646	42,745	28,219	127,384
6579	15,572	2,000	111,670	28,888	32,727	169,304
6580	17,142	2,000	106,312	18,188	35,164	191,651
6581	16,619	2,000	114,308	21,675	34,477	185,378
6582	16,095	2,000	116,426	25,239	33,666	177,946
6625	12,500	8,000	-18,764	-101,778	20,510	85,574

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6629	14,375	8,000	-14,026	-72,011	26,606	140,934
6630	13,750	8,000	-15,609	-81,348	24,810	125,159
6631	13,125	8,000	-17,191	-91,234	22,783	106,838
6641	17,665	2,000	93,401	14,767	35,731	196,808
6642	19,416	2,000	26,416	3,649	36,783	206,359
6643	18,833	2,000	51,599	7,315	36,574	204,466
6644	18,249	2,000	74,341	11,015	36,224	201,291
6661	20,000	2,000	0,000	0,000	36,852	206,989
6665	20,000	2,500	0,000	0,000	36,834	207,826
6666	20,000	3,000	0,000	0,000	36,779	208,574
6667	20,000	3,500	0,000	0,000	36,685	209,185
6671	20,000	4,000	0,000	0,000	36,552	209,612
6675	20,000	4,500	0,000	0,000	36,376	209,801
6676	20,000	5,000	0,000	0,000	36,157	209,703
6677	20,000	5,500	0,000	0,000	35,892	209,277
6678	15,000	8,000	-12,445	-63,120	28,181	154,472
6687	20,000	6,000	0,000	0,000	35,581	208,487
6694	16,875	8,000	-7,735	-38,311	31,686	183,722
6695	16,250	8,000	-9,298	-46,334	30,713	175,707
6696	15,625	8,000	-10,868	-54,584	29,547	166,004
6697	17,500	8,000	-6,178	-30,459	32,474	190,160
6717	18,125	8,000	-4,628	-22,739	33,081	195,089
6718	20,000	7,000	0,000	0,000	34,815	205,724
6719	20,000	7,500	0,000	0,000	34,358	203,731
6720	19,375	8,000	-1,540	-7,541	33,769	200,651
6721	20,000	8,000	0,000	0,000	33,854	201,340
6723	20,000	6,500	0,000	0,000	35,222	207,308

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

8. Results for phase 3

Table [12] Table of deformations phase no: 3



Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4	-20,000	-10,833	0,000	0,000	12,689	1,630
5	-20,000	-11,444	0,000	0,000	11,375	1,461
6	-20,000	-12,056	0,000	0,000	10,101	1,298
19	-20,000	-13,278	0,000	0,000	7,697	989,181
20	-20,000	-13,889	0,000	0,000	6,578	845,420
21	-20,000	-14,500	0,000	0,000	5,522	709,789
28	-20,000	-12,667	0,000	0,000	8,873	1,140
29	-20,000	-15,111	0,000	0,000	4,536	583,114
33	-20,000	-15,722	0,000	0,000	3,627	466,241
34	-20,000	-16,333	0,000	0,000	2,801	360,047
35	-20,000	-16,944	0,000	0,000	2,066	265,439
51	-20,000	-17,556	0,000	0,000	1,427	183,351
52	-20,000	-20,000	0,000	0,000	0,000	0,000
53	-19,412	-20,000	0,000	0,000	0,000	0,000
54	-18,824	-20,000	0,000	0,000	0,000	0,000
55	-18,235	-20,000	0,000	0,000	0,000	0,000
59	-20,000	-18,167	0,000	0,000	893,963	114,750
60	-20,000	-18,778	0,000	0,000	472,962	60,634
61	-20,000	-19,389	0,000	0,000	172,290	22,032
96	-20,000	-10,222	0,000	0,000	14,037	1,803
97	-20,000	-8,389	0,000	0,000	18,234	2,340
98	-20,000	-9,000	0,000	0,000	16,815	2,159
99	-20,000	-9,611	0,000	0,000	15,414	1,979
135	-20,000	-7,778	0,000	0,000	19,668	2,523
139	-20,000	-5,944	0,000	0,000	24,002	3,076
140	-20,000	-6,556	0,000	0,000	22,556	2,892

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
141	-20,000	-7,167	0,000	0,000	21,110	2,708
167	-17,647	-20,000	0,000	0,000	0,000	0,000
171	-17,059	-20,000	0,000	0,000	0,000	0,000
172	-16,471	-20,000	0,000	0,000	0,000	0,000
173	-15,882	-20,000	0,000	0,000	0,000	0,000
217	-20,000	-5,333	0,000	0,000	25,443	3,260
221	-20,000	-3,500	0,000	0,000	29,698	3,799
222	-20,000	-4,111	0,000	0,000	28,295	3,621
223	-20,000	-4,722	0,000	0,000	26,875	3,441
285	-15,294	-20,000	0,000	0,000	0,000	0,000
289	-14,706	-20,000	0,000	0,000	0,000	0,000
290	-14,118	-20,000	0,000	0,000	0,000	0,000
291	-13,529	-20,000	0,000	0,000	0,000	0,000
407	-20,000	-2,889	0,000	0,000	31,080	3,973
411	-20,000	-1,056	0,000	0,000	35,083	4,476
412	-20,000	-1,667	0,000	0,000	33,775	4,312
413	-20,000	-2,278	0,000	0,000	32,441	4,144
451	-12,941	-20,000	0,000	0,000	0,000	0,000
455	-12,353	-20,000	0,000	0,000	0,000	0,000
456	-11,765	-20,000	0,000	0,000	0,000	0,000
457	-11,176	-20,000	0,000	0,000	0,000	0,000
551	-20,000	-0,444	0,000	0,000	36,362	4,635
555	-20,000	1,389	0,000	0,000	40,023	5,090
556	-20,000	0,778	0,000	0,000	38,831	4,942
557	-20,000	0,167	0,000	0,000	37,611	4,791
561	-10,588	-20,000	0,000	0,000	0,000	0,000
565	-10,000	-20,000	0,000	0,000	0,000	0,000
566	-9,412	-20,000	0,000	0,000	0,000	0,000
567	-8,824	-20,000	0,000	0,000	0,000	0,000
785	-8,235	-20,000	0,000	0,000	0,000	0,000
789	-7,647	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
790	-7,059	-20,000	0,000	0,000	0,000	0,000
791	-6,471	-20,000	0,000	0,000	0,000	0,000
833	-16,095	2,000	-6,687	-821,879	40,829	5,188
834	-16,619	2,000	-5,801	-713,231	40,924	5,200
835	-17,142	2,000	-4,910	-603,954	41,002	5,210
839	-18,249	2,000	-3,016	-371,095	41,120	5,225
840	-18,833	2,000	-2,012	-247,633	41,158	5,230
841	-19,416	2,000	-1,006	-123,888	41,180	5,233
845	-17,665	2,000	-4,016	-494,136	41,066	5,218
855	-20,000	2,000	0,000	0,000	41,188	5,234
856	-20,000	3,500	0,000	0,000	58,085	7,372
857	-20,000	3,000	0,000	0,000	52,462	6,661
858	-20,000	2,500	0,000	0,000	46,830	5,948
865	-20,000	4,000	0,000	0,000	63,700	8,083
866	-18,273	4,000	-2,730	-333,278	63,625	8,073
867	-18,849	4,000	-1,823	-222,644	63,667	8,078
868	-19,424	4,000	-912,660	-111,460	63,692	8,081
875	-5,882	-20,000	0,000	0,000	0,000	0,000
879	-5,294	-20,000	0,000	0,000	0,000	0,000
880	-4,706	-20,000	0,000	0,000	0,000	0,000
881	-4,118	-20,000	0,000	0,000	0,000	0,000
1051	-15,572	2,000	-7,568	-929,817	40,715	5,174
1052	-14,165	2,000	-9,912	-1,216	40,307	5,121
1053	-14,634	2,000	-9,135	-1,121	40,462	5,141
1054	-15,103	2,000	-8,354	-1,026	40,597	5,159
1061	-16,077	4,000	-6,123	-745,644	63,292	8,030
1062	-16,617	4,000	-5,302	-646,126	63,402	8,044
1063	-17,157	4,000	-4,471	-545,202	63,493	8,056
1067	-17,698	4,000	-3,631	-443,089	63,566	8,065
1077	-15,536	4,000	-6,934	-843,539	63,162	8,013
1078	-14,014	4,000	-9,145	-1,109	62,666	7,948

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1079	-14,521	4,000	-8,421	-1,022	62,854	7,973
1080	-15,029	4,000	-7,683	-933,790	63,019	7,994
1119	-13,696	2,000	-10,684	-1,310	40,132	5,099
1123	-12,435	2,000	-12,735	-1,558	39,542	5,023
1124	-12,855	2,000	-12,055	-1,476	39,759	5,051
1125	-13,276	2,000	-11,371	-1,393	39,956	5,076
1173	-3,529	-20,000	0,000	0,000	0,000	0,000
1177	-2,941	-20,000	0,000	0,000	0,000	0,000
1178	-2,353	-20,000	0,000	0,000	0,000	0,000
1179	-1,765	-20,000	0,000	0,000	0,000	0,000
1219	-1,176	-20,000	0,000	0,000	0,000	0,000
1223	-0,588	-20,000	0,000	0,000	0,000	0,000
1224	0,000	-20,000	0,000	0,000	0,000	0,000
1225	0,588	-20,000	0,000	0,000	0,000	0,000
1421	-13,507	4,000	-9,856	-1,193	62,452	7,920
1422	-12,077	4,000	-11,776	-1,418	61,690	7,820
1423	-12,554	4,000	-11,150	-1,345	61,973	7,857
1424	-13,030	4,000	-10,509	-1,270	62,226	7,890
1469	-12,015	2,000	-13,411	-1,640	39,301	4,991
1473	-10,884	2,000	-15,212	-1,856	38,521	4,890
1474	-11,261	2,000	-14,614	-1,784	38,804	4,927
1475	-11,638	2,000	-14,014	-1,712	39,063	4,960
1539	1,176	-20,000	0,000	0,000	0,000	0,000
1543	1,765	-20,000	0,000	0,000	0,000	0,000
1544	2,353	-20,000	0,000	0,000	0,000	0,000
1545	2,941	-20,000	0,000	0,000	0,000	0,000
1593	-11,601	4,000	-12,387	-1,489	61,376	7,779
1597	-11,154	4,000	-12,948	-1,553	61,049	7,735
1598	-10,706	4,000	-13,496	-1,615	60,690	7,688
1599	-10,259	4,000	-14,031	-1,675	60,296	7,635
1667	-10,508	2,000	-15,808	-1,927	38,214	4,850

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1668	-9,494	2,000	-17,403	-2,116	37,249	4,723
1669	-9,832	2,000	-16,872	-2,053	37,594	4,768
1670	-10,170	2,000	-16,340	-1,990	37,915	4,810
1747	3,529	-20,000	0,000	0,000	0,000	0,000
1751	4,118	-20,000	0,000	0,000	0,000	0,000
1752	4,706	-20,000	0,000	0,000	0,000	0,000
1753	5,294	-20,000	0,000	0,000	0,000	0,000
2063	-9,157	2,000	-17,934	-2,178	36,878	4,673
2067	-8,248	2,000	-19,367	-2,345	35,742	4,521
2068	-8,551	2,000	-18,888	-2,289	36,144	4,575
2069	-8,854	2,000	-18,410	-2,234	36,523	4,626
2073	-7,946	2,000	-19,850	-2,400	35,315	4,463
2077	-7,132	2,000	-21,171	-2,549	34,034	4,288
2078	-7,403	2,000	-20,725	-2,499	34,484	4,350
2079	-7,674	2,000	-20,285	-2,450	34,910	4,408
2115	5,882	-20,000	0,000	0,000	0,000	0,000
2116	6,471	-20,000	0,000	0,000	0,000	0,000
2117	7,059	-20,000	0,000	0,000	0,000	0,000
2118	7,647	-20,000	0,000	0,000	0,000	0,000
2215	-8,552	4,000	-15,967	-1,883	58,422	7,382
2216	-8,972	4,000	-15,505	-1,835	58,942	7,453
2217	-9,392	4,000	-15,034	-1,784	59,422	7,518
2221	-9,812	4,000	-14,554	-1,732	59,864	7,577
2423	-8,132	4,000	-16,421	-1,930	57,862	7,305
2427	-6,949	4,000	-17,675	-2,054	56,062	7,049
2428	-7,343	4,000	-17,260	-2,014	56,697	7,141
2429	-7,737	4,000	-16,842	-1,972	57,298	7,226
2433	-6,860	2,000	-21,623	-2,599	33,561	4,222
2434	-6,131	2,000	-22,893	-2,735	32,162	4,024
2435	-6,374	2,000	-22,459	-2,690	32,650	4,094
2436	-6,617	2,000	-22,036	-2,644	33,116	4,159

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
2517	8,235	-20,000	0,000	0,000	0,000	0,000
2521	8,824	-20,000	0,000	0,000	0,000	0,000
2522	9,412	-20,000	0,000	0,000	0,000	0,000
2523	10,000	-20,000	0,000	0,000	0,000	0,000
2559	-5,234	2,000	-24,655	-2,907	30,134	3,734
2560	-5,452	2,000	-24,197	-2,864	30,664	3,810
2561	-5,670	2,000	-23,761	-2,823	31,169	3,882
2565	-5,888	2,000	-23,343	-2,781	31,650	3,951
2581	-5,016	2,000	-25,140	-2,950	29,576	3,655
2585	-4,429	2,000	-26,612	-3,067	27,888	3,420
2586	-4,625	2,000	-26,090	-3,028	28,485	3,502
2587	-4,820	2,000	-25,600	-2,988	29,046	3,580
2999	10,588	-20,000	0,000	0,000	0,000	0,000
3003	11,176	-20,000	0,000	0,000	0,000	0,000
3004	11,765	-20,000	0,000	0,000	0,000	0,000
3005	12,353	-20,000	0,000	0,000	0,000	0,000
3115	-6,554	4,000	-18,089	-2,094	55,396	6,949
3116	-5,444	4,000	-19,224	-2,208	53,444	6,623
3117	-5,814	4,000	-18,858	-2,169	54,094	6,740
3118	-6,184	4,000	-18,475	-2,132	54,751	6,848
3151	-3,709	2,000	-28,891	-3,220	25,300	3,085
3152	-3,884	2,000	-28,279	-3,182	25,992	3,172
3153	-4,059	2,000	-27,707	-3,145	26,641	3,255
3157	-4,234	2,000	-27,171	-3,108	27,251	3,335
3173	-3,534	2,000	-29,548	-3,258	24,562	2,995
3177	-3,063	2,000	-31,577	-3,365	22,331	2,732
3178	-3,220	2,000	-30,852	-3,329	23,117	2,823
3179	-3,377	2,000	-30,178	-3,293	23,860	2,911
3199	0,000	-3,325	-35,990	-4,584	1,909	99,819
3200	0,000	-3,250	-35,971	-4,583	1,909	99,801
3201	0,000	-3,175	-35,950	-4,582	1,909	99,782

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3205	0,000	-3,100	-35,927	-4,581	1,910	99,762
3206	0,000	-3,025	-35,902	-4,580	1,910	99,741
3207	0,000	-2,950	-35,875	-4,579	1,910	99,718
3208	0,000	-2,875	-35,845	-4,578	1,911	99,695
3215	0,000	-3,625	-36,050	-4,585	1,908	99,879
3216	0,000	-3,550	-36,037	-4,585	1,908	99,866
3217	0,000	-3,475	-36,022	-4,585	1,908	99,852
3221	0,000	-3,400	-36,007	-4,584	1,908	99,836
3231	0,000	-3,700	-36,063	-4,585	1,908	99,891
3232	0,000	-3,925	-36,097	-4,586	1,907	99,919
3233	0,000	-3,850	-36,086	-4,586	1,907	99,910
3234	0,000	-3,775	-36,074	-4,586	1,907	99,901
3289	0,000	-2,425	-35,592	-4,565	1,912	99,530
3290	0,000	-2,350	-35,536	-4,562	1,913	99,498
3291	0,000	-2,275	-35,474	-4,559	1,913	99,466
3295	0,000	-2,500	-35,644	-4,568	1,912	99,560
3296	0,000	-2,725	-35,775	-4,574	1,911	99,644
3297	0,000	-2,650	-35,735	-4,572	1,911	99,617
3298	0,000	-2,575	-35,692	-4,570	1,912	99,589
3305	0,000	-2,800	-35,811	-4,576	1,911	99,670
3315	0,000	-2,125	-35,335	-4,552	1,914	99,397
3316	0,000	-2,050	-35,256	-4,548	1,914	99,361
3317	0,000	-1,975	-35,171	-4,544	1,914	99,323
3321	0,000	-2,200	-35,408	-4,556	1,913	99,432
3337	0,000	-4,000	-36,107	-4,586	1,907	99,924
3403	-5,073	4,000	-19,547	-2,248	52,819	6,498
3407	-4,030	4,000	-19,645	-2,376	51,424	6,093
3408	-4,378	4,000	-19,893	-2,330	51,812	6,237
3409	-4,726	4,000	-19,784	-2,288	52,269	6,372
3439	12,941	-20,000	0,000	0,000	0,000	0,000
3443	13,529	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3444	14,118	-20,000	0,000	0,000	0,000	0,000
3445	14,706	-20,000	0,000	0,000	0,000	0,000
3513	0,000	-1,525	-34,495	-4,511	1,916	99,074
3514	0,000	-1,450	-34,349	-4,505	1,916	99,028
3515	0,000	-1,375	-34,193	-4,498	1,916	98,981
3519	0,000	-1,600	-34,630	-4,518	1,915	99,119
3520	0,000	-1,825	-34,979	-4,534	1,915	99,245
3521	0,000	-1,750	-34,872	-4,529	1,915	99,204
3522	0,000	-1,675	-34,755	-4,523	1,915	99,162
3529	0,000	-1,900	-35,079	-4,539	1,914	99,285
3625	0,000	0,875	-25,794	-4,060	1,899	96,840
3626	0,000	0,950	-25,971	-4,040	1,897	96,737
3627	0,000	1,025	-26,296	-4,021	1,895	96,633
3631	0,000	1,100	-26,793	-4,002	1,893	96,525
3632	0,000	1,175	-27,490	-3,985	1,890	96,416
3633	0,000	1,250	-28,418	-3,968	1,888	96,303
3634	0,000	1,325	-29,610	-3,954	1,885	96,188
3657	0,000	1,400	-31,102	-3,942	1,882	96,070
3658	0,000	1,475	-32,933	-3,932	1,879	95,950
3659	0,000	1,550	-35,144	-3,925	1,875	95,827
3660	0,000	1,625	-37,781	-3,921	1,871	95,703
3731	-2,483	2,000	-34,849	-3,505	19,001	2,361
3732	-2,624	2,000	-33,953	-3,470	19,886	2,457
3733	-2,765	2,000	-33,124	-3,436	20,718	2,549
3734	-2,906	2,000	-32,361	-3,402	21,501	2,637
3741	-2,343	2,000	-35,818	-3,540	18,059	2,262
3742	-1,964	2,000	-38,843	-3,636	15,129	1,974
3743	-2,091	2,000	-37,763	-3,604	16,177	2,074
3744	-2,217	2,000	-36,753	-3,572	17,149	2,170
3787	-1,499	2,000	-43,297	-3,753	10,671	1,573
3788	-1,612	2,000	-42,179	-3,725	11,791	1,675

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3789	-1,725	2,000	-41,058	-3,697	12,912	1,775
3793	-1,386	2,000	-44,312	-3,779	9,403	1,467
3794	-1,082	2,000	-44,956	-3,840	7,718	1,172
3795	-1,183	2,000	-45,061	-3,822	8,308	1,272
3796	-1,285	2,000	-44,900	-3,802	8,779	1,370
3803	-1,838	2,000	-39,983	-3,668	14,010	1,871
3889	0,000	-0,625	-31,898	-4,404	1,916	98,434
3890	0,000	-0,550	-31,586	-4,392	1,916	98,371
3891	0,000	-0,475	-31,259	-4,379	1,916	98,307
3895	0,000	-0,400	-30,916	-4,366	1,916	98,241
3896	0,000	-0,325	-30,559	-4,352	1,915	98,174
3897	0,000	-0,250	-30,189	-4,337	1,915	98,105
3898	0,000	-0,175	-29,808	-4,322	1,915	98,034
3905	0,000	-0,925	-32,990	-4,447	1,916	98,670
3906	0,000	-0,850	-32,740	-4,437	1,916	98,613
3907	0,000	-0,775	-32,475	-4,426	1,916	98,555
3911	0,000	-0,700	-32,195	-4,415	1,916	98,495
3921	0,000	-1,000	-33,225	-4,457	1,916	98,725
3922	0,000	-1,225	-33,845	-4,483	1,916	98,883
3923	0,000	-1,150	-33,652	-4,474	1,916	98,831
3924	0,000	-1,075	-33,445	-4,466	1,916	98,779
3931	0,000	-1,300	-34,025	-4,490	1,916	98,932
3941	0,000	0,275	-27,431	-4,220	1,910	97,572
3942	0,000	0,350	-27,062	-4,201	1,909	97,488
3943	0,000	0,425	-26,717	-4,181	1,908	97,402
3947	0,000	0,200	-27,818	-4,238	1,911	97,654
3948	0,000	-0,025	-29,019	-4,290	1,913	97,888
3949	0,000	0,050	-28,617	-4,273	1,913	97,811
3950	0,000	0,125	-28,215	-4,256	1,912	97,733
3957	0,000	0,500	-26,406	-4,161	1,907	97,314
3958	0,000	0,575	-26,140	-4,141	1,906	97,224

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3959	0,000	0,650	-25,931	-4,121	1,905	97,131
3960	0,000	0,725	-25,793	-4,100	1,903	97,036
3967	0,000	-0,100	-29,417	-4,307	1,914	97,962
3977	-0,708	2,000	-46,964	-3,894	-192,343	778,939
3978	-0,799	2,000	-45,978	-3,882	1,954	878,837
3979	-0,890	2,000	-45,216	-3,870	4,135	976,126
3983	-0,618	2,000	-48,059	-3,905	-2,023	677,492
3984	-0,373	2,000	-52,124	-3,932	-4,829	411,794
3985	-0,455	2,000	-50,590	-3,923	-4,211	498,131
3986	-0,536	2,000	-49,242	-3,914	-3,146	587,548
3993	-0,981	2,000	-44,882	-3,857	6,104	1,070
4087	0,000	0,800	-25,741	-4,080	1,901	96,939
4103	0,000	1,700	-40,888	-3,922	1,867	95,577
4104	0,000	1,775	-44,513	-3,926	1,863	95,450
4105	0,000	1,850	-48,703	-3,937	1,859	95,322
4106	0,000	1,925	-53,506	-3,953	1,854	95,200
4129	15,294	-20,000	0,000	0,000	0,000	0,000
4133	15,882	-20,000	0,000	0,000	0,000	0,000
4134	16,471	-20,000	0,000	0,000	0,000	0,000
4135	17,059	-20,000	0,000	0,000	0,000	0,000
4209	-3,683	4,000	-18,624	-2,426	51,075	5,939
4213	-2,703	4,000	-19,158	-2,601	52,130	5,449
4214	-3,030	4,000	-17,024	-2,532	51,614	5,622
4215	-3,356	4,000	-16,907	-2,476	51,217	5,786
4225	-0,292	2,000	-53,686	-3,940	-5,326	330,704
4226	-0,073	2,000	-57,897	-3,967	60,894	147,509
4227	-0,146	2,000	-56,186	-3,955	-2,248	202,144
4228	-0,219	2,000	-54,816	-3,946	-4,010	264,642
4235	0,000	2,000	-58,966	-3,975	1,849	95,072
4236	0,000	2,071	-64,813	-4,003	1,845	94,970
4237	0,000	2,143	-71,308	-4,038	1,839	94,857

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4238	0,000	2,214	-78,475	-4,080	1,833	94,734
4239	0,219	2,000	-54,686	-3,917	9,766	-74,766
4240	0,146	2,000	-56,025	-3,932	7,305	-25,069
4241	0,073	2,000	-57,813	-3,957	4,293	25,157
4399	-2,377	4,000	-30,658	-2,697	59,855	5,276
4403	-1,458	4,000	-114,102	-3,206	148,855	4,903
4404	-1,764	4,000	-84,814	-2,997	116,956	5,012
4405	-2,071	4,000	-54,083	-2,827	83,082	5,130
4425	17,647	-20,000	0,000	0,000	0,000	0,000
4429	18,235	-20,000	0,000	0,000	0,000	0,000
4430	18,824	-20,000	0,000	0,000	0,000	0,000
4431	19,412	-20,000	0,000	0,000	0,000	0,000
4432	20,000	-20,000	0,000	0,000	0,000	0,000
4433	20,000	-19,389	0,000	0,000	-53,099	-6,662
4434	20,000	-18,778	0,000	0,000	-234,400	-29,527
4435	20,000	-18,167	0,000	0,000	-535,870	-67,579
4597	0,536	2,000	-51,129	-3,888	10,207	-320,828
4598	0,455	2,000	-52,085	-3,894	11,759	-251,519
4599	0,373	2,000	-52,924	-3,900	12,188	-186,654
4603	0,292	2,000	-53,815	-3,909	11,415	-126,191
4613	0,000	2,286	-86,329	-4,131	1,826	94,599
4614	0,000	2,429	-104,146	-4,257	1,808	94,291
4615	0,000	2,571	-124,785	-4,420	1,787	93,925
4616	0,000	2,714	-148,224	-4,624	1,766	93,497
4629	0,618	2,000	-49,918	-3,881	7,879	-393,803
4633	0,890	2,000	-44,148	-3,851	-535,135	-650,730
4634	0,799	2,000	-46,207	-3,863	1,782	-564,810
4635	0,708	2,000	-48,218	-3,873	4,741	-478,591
4859	-1,151	4,000	-131,928	-3,430	160,121	4,778
4863	-0,288	4,000	-348,817	-6,837	276,910	5,245
4864	-0,576	4,000	-246,486	-4,808	266,004	5,424

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4865	-0,863	4,000	-250,555	-4,370	274,599	5,512
4911	20,000	-17,556	0,000	0,000	-949,659	-119,827
4912	20,000	-16,944	0,000	0,000	-1,468	-185,310
4913	20,000	-16,333	0,000	0,000	-2,084	-263,098
4914	20,000	-15,722	0,000	0,000	-2,789	-352,291
5011	0,000	2,857	-174,403	-4,871	1,745	93,000
5012	0,000	3,143	-234,369	-5,503	1,696	91,795
5013	0,000	3,429	-302,694	-6,325	1,648	90,304
5014	0,000	3,714	-377,156	-7,330	1,602	88,547
5031	0,981	2,000	-42,292	-3,838	-2,092	-735,497
5032	1,285	2,000	-38,337	-3,790	-5,288	-1,007
5033	1,183	2,000	-39,339	-3,806	-4,376	-918,329
5034	1,082	2,000	-40,629	-3,822	-3,377	-827,977
5047	1,386	2,000	-37,506	-3,774	-6,143	-1,093
5051	1,725	2,000	-35,298	-3,715	-9,003	-1,366
5052	1,612	2,000	-35,926	-3,735	-8,079	-1,278
5053	1,499	2,000	-36,666	-3,754	-7,131	-1,186
5133	20,000	-15,111	0,000	0,000	-3,578	-452,016
5137	20,000	-14,500	0,000	0,000	-4,443	-561,430
5138	20,000	-13,889	0,000	0,000	-5,378	-679,719
5139	20,000	-13,278	0,000	0,000	-6,375	-806,090
5207	0,000	6,216	-1,137	-20,287	1,531	76,924
5208	0,000	6,410	-1,199	-21,413	1,529	76,497
5209	0,000	6,604	-1,262	-22,543	1,527	76,136
5213	0,000	6,798	-1,325	-23,675	1,524	75,846
5214	0,000	6,961	-1,377	-24,629	1,523	75,639
5215	0,000	7,124	-1,430	-25,583	1,521	75,473
5216	0,000	7,288	-1,483	-26,538	1,520	75,349
5223	0,000	5,329	-854,777	-15,237	1,545	79,644
5224	0,000	5,560	-927,473	-16,530	1,543	78,815
5225	0,000	5,791	-1,001	-17,841	1,538	78,066

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5229	0,000	6,022	-1,075	-19,165	1,535	77,394
5239	0,000	5,098	-782,788	-13,966	1,548	80,588
5240	0,000	4,275	-534,411	-9,741	1,563	84,864
5241	0,000	4,549	-615,396	-11,081	1,557	83,269
5242	0,000	4,824	-698,319	-12,495	1,553	81,847
5249	0,000	4,000	-455,840	-8,496	1,575	86,688
5327	2,217	2,000	-32,828	-3,624	-13,314	-1,726
5328	2,091	2,000	-33,453	-3,648	-12,278	-1,638
5329	1,964	2,000	-34,092	-3,672	-11,186	-1,547
5333	1,838	2,000	-34,742	-3,695	-10,072	-1,453
5359	2,343	2,000	-32,233	-3,599	-14,300	-1,812
5363	2,765	2,000	-30,437	-3,515	-17,219	-2,078
5364	2,624	2,000	-31,008	-3,544	-16,307	-1,993
5365	2,483	2,000	-31,604	-3,572	-15,335	-1,904
5469	0,000	7,588	-1,580	-28,295	1,518	75,223
5470	0,000	7,725	-1,624	-29,098	1,517	75,212
5471	0,000	7,863	-1,669	-29,901	1,517	75,214
5472	0,000	8,000	-1,713	-30,704	1,517	75,214
5473	0,750	8,000	-820,246	-13,769	-699,971	-11,291
5474	0,500	8,000	-780,975	-13,077	-772,697	-12,850
5475	0,250	8,000	-691,395	-11,492	-478,858	-8,118
5479	0,000	7,451	-1,536	-27,492	1,519	75,262
5511	20,000	-12,667	0,000	0,000	-7,430	-939,778
5515	20,000	-12,056	0,000	0,000	-8,536	-1,080
5516	20,000	-11,444	0,000	0,000	-9,687	-1,226
5517	20,000	-10,833	0,000	0,000	-10,877	-1,377
5687	1,000	8,000	-815,131	-13,541	-907,673	-15,141
5691	2,500	8,000	-848,164	-13,714	-838,721	-14,046
5692	2,000	8,000	-845,223	-14,056	-905,681	-15,569
5693	1,500	8,000	-831,942	-13,883	-946,147	-16,198
5733	20,000	-10,222	0,000	0,000	-12,102	-1,533

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5737	20,000	-9,611	0,000	0,000	-13,355	-1,693
5738	20,000	-9,000	0,000	0,000	-14,631	-1,855
5739	20,000	-8,389	0,000	0,000	-15,926	-2,020
5811	3,377	2,000	-28,304	-3,390	-20,481	-2,415
5812	3,220	2,000	-28,798	-3,422	-19,727	-2,334
5813	3,063	2,000	-29,323	-3,454	-18,921	-2,249
5817	2,906	2,000	-29,890	-3,486	-18,060	-2,161
5843	3,534	2,000	-27,834	-3,358	-21,186	-2,492
5847	4,059	2,000	-26,408	-3,251	-23,231	-2,731
5848	3,884	2,000	-26,860	-3,286	-22,601	-2,655
5849	3,709	2,000	-27,335	-3,322	-21,920	-2,575
5881	3,000	8,000	-747,953	-11,616	-773,646	-12,551
5885	4,500	8,000	-395,024	-5,154	-450,975	-6,579
5886	4,000	8,000	-524,500	-7,372	-566,635	-8,526
5887	3,500	8,000	-630,004	-9,594	-664,791	-10,718
5945	4,820	2,000	-24,669	-3,100	-25,484	-3,024
5946	4,625	2,000	-25,082	-3,138	-24,972	-2,954
5947	4,429	2,000	-25,518	-3,177	-24,418	-2,880
5951	4,234	2,000	-25,976	-3,216	-23,816	-2,803
5977	5,016	2,000	-24,276	-3,062	-25,959	-3,092
5978	5,670	2,000	-23,088	-2,936	-27,341	-3,297
5979	5,452	2,000	-23,465	-2,978	-26,911	-3,232
5980	5,234	2,000	-23,860	-3,020	-26,452	-3,163
5987	20,000	-7,778	0,000	0,000	-17,234	-2,188
5991	20,000	-7,167	0,000	0,000	-18,550	-2,356
5992	20,000	-6,556	0,000	0,000	-19,870	-2,525
5993	20,000	-5,944	0,000	0,000	-21,190	-2,694
6113	20,000	-5,333	0,000	0,000	-22,505	-2,863
6117	20,000	-4,722	0,000	0,000	-23,812	-3,031
6118	20,000	-4,111	0,000	0,000	-25,105	-3,197
6119	20,000	-3,500	0,000	0,000	-26,383	-3,361

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6171	5,000	8,000	-321,125	-3,903	-169,588	-4,086
6175	6,875	8,000	-14,605	-1,600	-32,770	-3,898
6176	6,250	8,000	-17,696	-1,702	-25,541	-3,680
6177	5,625	8,000	-61,033	-2,041	-17,133	-3,426
6191	6,617	2,000	-21,596	-2,757	-28,979	-3,550
6192	6,374	2,000	-21,963	-2,803	-28,587	-3,490
6193	6,131	2,000	-22,339	-2,849	-28,178	-3,426
6197	5,888	2,000	-22,727	-2,895	-27,748	-3,360
6223	6,860	2,000	-21,236	-2,712	-29,356	-3,608
6224	7,674	2,000	-20,053	-2,559	-30,522	-3,785
6225	7,403	2,000	-20,446	-2,610	-30,148	-3,729
6226	7,132	2,000	-20,840	-2,661	-29,760	-3,670
6345	7,500	8,000	-14,500	-1,524	-33,712	-4,036
6349	9,375	8,000	-11,372	-1,326	-35,790	-4,413
6350	8,750	8,000	-11,726	-1,369	-34,709	-4,304
6351	8,125	8,000	-14,162	-1,425	-33,938	-4,173
6355	10,170	2,000	-16,344	-2,076	-33,326	-4,193
6356	9,832	2,000	-16,862	-2,143	-33,010	-4,148
6357	9,494	2,000	-17,374	-2,209	-32,675	-4,100
6361	9,157	2,000	-17,881	-2,275	-32,320	-4,049
6362	8,854	2,000	-18,331	-2,334	-31,985	-4,001
6363	8,551	2,000	-18,777	-2,392	-31,634	-3,950
6364	8,248	2,000	-19,220	-2,450	-31,266	-3,896
6371	7,946	2,000	-19,660	-2,507	-30,881	-3,839
6401	11,638	2,000	-14,042	-1,781	-34,485	-4,359
6402	11,261	2,000	-14,640	-1,858	-34,219	-4,321
6403	10,884	2,000	-15,234	-1,934	-33,932	-4,280
6407	10,508	2,000	-15,822	-2,009	-33,623	-4,236
6417	20,000	-2,889	0,000	0,000	-27,642	-3,523
6421	20,000	-2,278	0,000	0,000	-28,879	-3,683
6422	20,000	-1,667	0,000	0,000	-30,092	-3,839

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6423	20,000	-1,056	0,000	0,000	-31,279	-3,991
6449	12,015	2,000	-13,438	-1,704	-34,731	-4,395
6450	13,276	2,000	-11,391	-1,443	-35,421	-4,494
6451	12,855	2,000	-12,078	-1,531	-35,212	-4,464
6452	12,435	2,000	-12,760	-1,618	-34,983	-4,431
6495	20,000	-0,444	0,000	0,000	-32,439	-4,140
6499	20,000	0,167	0,000	0,000	-33,570	-4,285
6500	20,000	0,778	0,000	0,000	-34,671	-4,426
6501	20,000	1,389	0,000	0,000	-35,744	-4,563
6531	10,000	8,000	-11,394	-1,246	-36,252	-4,507
6535	11,875	8,000	-9,880	-1,059	-37,902	-4,761
6536	11,250	8,000	-10,203	-1,107	-37,505	-4,693
6537	10,625	8,000	-10,519	-1,157	-36,933	-4,605
6541	15,103	2,000	-8,360	-1,058	-36,120	-4,596
6542	14,634	2,000	-9,144	-1,157	-35,969	-4,574
6543	14,165	2,000	-9,924	-1,257	-35,800	-4,550
6553	13,696	2,000	-10,700	-1,355	-35,610	-4,522
6579	15,572	2,000	-7,572	-957,663	-36,253	-4,615
6580	17,142	2,000	-4,906	-620,222	-36,580	-4,663
6581	16,619	2,000	-5,798	-733,062	-36,490	-4,650
6582	16,095	2,000	-6,687	-845,561	-36,381	-4,634
6625	12,500	8,000	-8,975	-971,258	-38,277	-4,820
6629	14,375	8,000	-6,460	-755,936	-38,984	-4,978
6630	13,750	8,000	-8,029	-830,666	-38,627	-4,935
6631	13,125	8,000	-9,009	-888,885	-38,545	-4,883
6641	17,665	2,000	-4,010	-507,093	-36,652	-4,674
6642	19,416	2,000	-1,003	-126,973	-36,779	-4,694
6643	18,833	2,000	-2,006	-253,866	-36,755	-4,690
6644	18,249	2,000	-3,009	-380,597	-36,713	-4,683
6661	20,000	2,000	0,000	0,000	-36,787	-4,695
6665	20,000	2,500	0,000	0,000	-37,157	-4,744

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6666	20,000	3,000	0,000	0,000	-37,513	-4,791
6667	20,000	3,500	0,000	0,000	-37,853	-4,836
6671	20,000	4,000	0,000	0,000	-38,178	-4,880
6675	20,000	4,500	0,000	0,000	-38,485	-4,921
6676	20,000	5,000	0,000	0,000	-38,774	-4,960
6677	20,000	5,500	0,000	0,000	-39,041	-4,999
6678	15,000	8,000	-6,042	-677,328	-39,469	-5,016
6687	20,000	6,000	0,000	0,000	-39,280	-5,036
6694	16,875	8,000	-3,668	-460,035	-39,990	-5,089
6695	16,250	8,000	-4,351	-528,181	-39,667	-5,072
6696	15,625	8,000	-5,631	-603,139	-39,555	-5,048
6697	17,500	8,000	-3,230	-348,175	-40,112	-5,099
6717	18,125	8,000	-2,388	-240,959	-40,268	-5,121
6718	20,000	7,000	0,000	0,000	-39,672	-5,104
6719	20,000	7,500	0,000	0,000	-39,689	-5,133
6720	19,375	8,000	-2,169	-84,462	-40,006	-5,140
6721	20,000	8,000	0,000	0,000	-39,643	-5,144
6723	20,000	6,500	0,000	0,000	-39,416	-5,069

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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SLE, SLU-STR, SLU-V (Sisma)

1. General Information

Table [1] Units



Type	Unit
Length	m
Force	kN
Time	day

Table [2] Model dimensions

	min.	max.
X	-20,000	20,000
Y	-20,000	8,000

Table [3] Model

Model	Plane strain
Element	15-Noded

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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2. Structures

Table [4] Beams

Plate no.	Data set	Length [m]	Nodes
1	MICROPALI 193S	12,000	3107, 4445, 4214, 4497.

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3. Material data

Table [5] Soil data sets parameters

Mohr-Coulomb		1	2
		GHIAIE	ARGILLA
Type		Drained	Undrained
γ_{unsat}	[kN/m ³]	18,00	20,00
γ_{sat}	[kN/m ³]	18,00	20,00
k_x	[m/day]	1,000	0,000
k_y	[m/day]	1,000	0,000
e_{init}	[-]	1,000	0,500
c_k	[-]	1E15	1E15
E_{ref}	[kN/m ²]	50000,000	95000,000
ν	[-]	0,300	0,300
G_{ref}	[kN/m ²]	19230,769	36538,462
E_{oed}	[kN/m ²]	67307,692	127884,615
c_{ref}	[kN/m ²]	0,00	20,00
ϕ	[°]	38,00	25,00
ψ	[°]	0,00	0,00
E_{inc}	[kN/m ² /m]	0,00	0,00
y_{ref}	[m]	0,000	0,000
$c_{increment}$	[kN/m ² /m]	0,00	0,00
$T_{str.}$	[kN/m ²]	0,00	0,00
$R_{inter.}$	[-]	1,00	1,00
Interface permeability		Neutral	Neutral

Table [6] Beam data sets parameters

No.	Identification	EA	EI	w	v	Mp	Np
		[kN/m]	[kNm ² /m]	[kN/m/m]	[-]	[kNm/m]	[kN/m]

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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No.	Identification	EA [kN/m]	EI [kNm ² /m]	w [kN/m/m]	v [-]	Mp [kNm/m]	Np [kN/m]
1	MICROPALI 193	5,1215E6	21103,00	1,85	0,20	1E15	1E15
2	MICROPALI 219	5,78E6	31923,00	2,12	0,20	1E15	1E15
3	MICROPALI 193S	5,7614E6	23341,00	2,10	0,20	1E15	1E15
4	MICROPALI 193SS	6,4232E6	25560,00	2,10	0,20	1E15	1E15

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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4. Calculation phases

Table [7] List of phases

Phase	Ph-No.	Start phase	Calculation type	Load input	First step	Last step
Initial phase	0	-1		-	0	0
SOVRACCARI CO SLE	1	0	Plastic	Staged construction	1	2
MICROPALI SLE	2	1	Plastic	Staged construction	3	4
SCAVO SLE	3	2	Plastic	Staged construction	5	29
SOVRACCARI CO STR	4	0	Plastic	Staged construction	30	31
MICROPALI STR	5	4	Plastic	Staged construction	32	33
SCAVO STR	6	5	Plastic	Staged construction	34	64
SCAVO SISMA	7	0	Plastic	Staged construction	65	92
SISMA	8	7	Plastic	Total multipliers	93	125

Table [8] Staged construction info

Ph-No.	Active clusters	Inactive clusters	Active beams	Active geotextiles	Active anchors
0	1, 2, 3, 4.				
1	1, 2, 3, 4.				
2	1, 2, 3, 4.		1.		
3	1, 2, 4.	3.	1.		
4	1, 2, 3, 4.				
5	1, 2, 3, 4.		1.		
6	1, 2, 4.	3.	1.		
7	1, 2, 4.	3.	1.		

		<p align="center">Ponte sullo Stretto di Messina PROGETTO DEFINITIVO</p>		
<p align="center">RELAZIONE DI CALCOLO OPERE PROVVISORIALI</p>		<p><i>Codice documento</i> SS0765_F0.doc</p>	<p><i>Rev</i> F0</p>	<p><i>Data</i> 20/06/2011</p>

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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5. Results for phase

Table [9] Table of deformations phase no: 0

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
1	-20,000	-18,333	0,000	0,000	0,000	0,000
2	-20,000	-18,889	0,000	0,000	0,000	0,000
3	-20,000	-19,444	0,000	0,000	0,000	0,000
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	0,000	0,000
18	-20,000	-16,667	0,000	0,000	0,000	0,000
19	-20,000	-17,222	0,000	0,000	0,000	0,000
26	-20,000	-17,778	0,000	0,000	0,000	0,000
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
43	-15,294	-20,000	0,000	0,000	0,000	0,000
47	-14,706	-20,000	0,000	0,000	0,000	0,000
48	-14,118	-20,000	0,000	0,000	0,000	0,000
49	-13,529	-20,000	0,000	0,000	0,000	0,000
103	-20,000	-15,556	0,000	0,000	0,000	0,000
107	-20,000	-13,889	0,000	0,000	0,000	0,000
108	-20,000	-14,444	0,000	0,000	0,000	0,000
109	-20,000	-15,000	0,000	0,000	0,000	0,000
129	-20,000	-13,333	0,000	0,000	0,000	0,000
133	-20,000	-11,667	0,000	0,000	0,000	0,000
134	-20,000	-12,222	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
135	-20,000	-12,778	0,000	0,000	0,000	0,000
151	-12,941	-20,000	0,000	0,000	0,000	0,000
155	-12,353	-20,000	0,000	0,000	0,000	0,000
156	-11,765	-20,000	0,000	0,000	0,000	0,000
157	-11,176	-20,000	0,000	0,000	0,000	0,000
183	-10,588	-20,000	0,000	0,000	0,000	0,000
187	-10,000	-20,000	0,000	0,000	0,000	0,000
188	-9,412	-20,000	0,000	0,000	0,000	0,000
189	-8,824	-20,000	0,000	0,000	0,000	0,000
289	-20,000	-11,111	0,000	0,000	0,000	0,000
290	-20,000	-9,444	0,000	0,000	0,000	0,000
291	-20,000	-10,000	0,000	0,000	0,000	0,000
292	-20,000	-10,556	0,000	0,000	0,000	0,000
337	-20,000	-8,889	0,000	0,000	0,000	0,000
341	-20,000	-7,222	0,000	0,000	0,000	0,000
342	-20,000	-7,778	0,000	0,000	0,000	0,000
343	-20,000	-8,333	0,000	0,000	0,000	0,000
375	-8,235	-20,000	0,000	0,000	0,000	0,000
379	-7,647	-20,000	0,000	0,000	0,000	0,000
380	-7,059	-20,000	0,000	0,000	0,000	0,000
381	-6,471	-20,000	0,000	0,000	0,000	0,000
407	-20,000	-6,667	0,000	0,000	0,000	0,000
411	-20,000	-5,000	0,000	0,000	0,000	0,000
412	-20,000	-5,556	0,000	0,000	0,000	0,000
413	-20,000	-6,111	0,000	0,000	0,000	0,000
423	-20,000	-4,444	0,000	0,000	0,000	0,000
427	-20,000	-2,778	0,000	0,000	0,000	0,000
428	-20,000	-3,333	0,000	0,000	0,000	0,000
429	-20,000	-3,889	0,000	0,000	0,000	0,000
436	-20,000	-2,222	0,000	0,000	0,000	0,000
437	-20,000	-0,556	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
438	-20,000	-1,111	0,000	0,000	0,000	0,000
439	-20,000	-1,667	0,000	0,000	0,000	0,000
507	-5,882	-20,000	0,000	0,000	0,000	0,000
511	-5,294	-20,000	0,000	0,000	0,000	0,000
512	-4,706	-20,000	0,000	0,000	0,000	0,000
513	-4,118	-20,000	0,000	0,000	0,000	0,000
679	-20,000	1,500	0,000	0,000	0,000	0,000
680	-20,000	1,000	0,000	0,000	0,000	0,000
681	-20,000	0,500	0,000	0,000	0,000	0,000
685	-20,000	0,000	0,000	0,000	0,000	0,000
689	-18,273	2,000	0,000	0,000	0,000	0,000
690	-18,849	2,000	0,000	0,000	0,000	0,000
691	-19,424	2,000	0,000	0,000	0,000	0,000
695	-20,000	2,000	0,000	0,000	0,000	0,000
699	-20,000	3,500	0,000	0,000	0,000	0,000
700	-20,000	3,000	0,000	0,000	0,000	0,000
701	-20,000	2,500	0,000	0,000	0,000	0,000
711	-20,000	4,000	0,000	0,000	0,000	0,000
712	-18,249	4,000	0,000	0,000	0,000	0,000
713	-18,833	4,000	0,000	0,000	0,000	0,000
714	-19,416	4,000	0,000	0,000	0,000	0,000
715	-20,000	5,500	0,000	0,000	0,000	0,000
716	-20,000	5,000	0,000	0,000	0,000	0,000
717	-20,000	4,500	0,000	0,000	0,000	0,000
739	-20,000	8,000	0,000	0,000	0,000	0,000
740	-20,000	7,500	0,000	0,000	0,000	0,000
741	-20,000	7,000	0,000	0,000	0,000	0,000
742	-20,000	6,500	0,000	0,000	0,000	0,000
743	-18,285	8,000	0,000	0,000	0,000	0,000
744	-18,857	8,000	0,000	0,000	0,000	0,000
745	-19,428	8,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
749	-20,000	6,000	0,000	0,000	0,000	0,000
753	-17,713	8,000	0,000	0,000	0,000	0,000
757	-16,150	8,000	0,000	0,000	0,000	0,000
758	-16,671	8,000	0,000	0,000	0,000	0,000
759	-17,192	8,000	0,000	0,000	0,000	0,000
769	-17,698	2,000	0,000	0,000	0,000	0,000
770	-16,077	2,000	0,000	0,000	0,000	0,000
771	-16,617	2,000	0,000	0,000	0,000	0,000
772	-17,157	2,000	0,000	0,000	0,000	0,000
795	-17,665	4,000	0,000	0,000	0,000	0,000
796	-16,095	4,000	0,000	0,000	0,000	0,000
797	-16,619	4,000	0,000	0,000	0,000	0,000
798	-17,142	4,000	0,000	0,000	0,000	0,000
837	-15,628	8,000	0,000	0,000	0,000	0,000
841	-14,203	8,000	0,000	0,000	0,000	0,000
842	-14,678	8,000	0,000	0,000	0,000	0,000
843	-15,153	8,000	0,000	0,000	0,000	0,000
847	-13,727	8,000	0,000	0,000	0,000	0,000
851	-12,428	8,000	0,000	0,000	0,000	0,000
852	-12,861	8,000	0,000	0,000	0,000	0,000
853	-13,294	8,000	0,000	0,000	0,000	0,000
991	-3,529	-20,000	0,000	0,000	0,000	0,000
995	-2,941	-20,000	0,000	0,000	0,000	0,000
996	-2,353	-20,000	0,000	0,000	0,000	0,000
997	-1,765	-20,000	0,000	0,000	0,000	0,000
1119	-15,536	2,000	0,000	0,000	0,000	0,000
1123	-14,014	2,000	0,000	0,000	0,000	0,000
1124	-14,521	2,000	0,000	0,000	0,000	0,000
1125	-15,029	2,000	0,000	0,000	0,000	0,000
1129	-15,572	4,000	0,000	0,000	0,000	0,000
1130	-15,103	4,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISORIALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
1131	-14,634	4,000	0,000	0,000	0,000	0,000
1132	-14,165	4,000	0,000	0,000	0,000	0,000
1161	-13,696	4,000	0,000	0,000	0,000	0,000
1162	-12,435	4,000	0,000	0,000	0,000	0,000
1163	-12,855	4,000	0,000	0,000	0,000	0,000
1164	-13,276	4,000	0,000	0,000	0,000	0,000
1177	-11,994	8,000	0,000	0,000	0,000	0,000
1178	-10,809	8,000	0,000	0,000	0,000	0,000
1179	-11,204	8,000	0,000	0,000	0,000	0,000
1180	-11,599	8,000	0,000	0,000	0,000	0,000
1255	-1,176	-20,000	0,000	0,000	0,000	0,000
1259	-0,588	-20,000	0,000	0,000	0,000	0,000
1260	0,000	-20,000	0,000	0,000	0,000	0,000
1261	0,588	-20,000	0,000	0,000	0,000	0,000
1373	-13,507	2,000	0,000	0,000	0,000	0,000
1377	-12,077	2,000	0,000	0,000	0,000	0,000
1378	-12,554	2,000	0,000	0,000	0,000	0,000
1379	-13,030	2,000	0,000	0,000	0,000	0,000
1389	-12,015	4,000	0,000	0,000	0,000	0,000
1393	-11,638	4,000	0,000	0,000	0,000	0,000
1394	-11,261	4,000	0,000	0,000	0,000	0,000
1395	-10,884	4,000	0,000	0,000	0,000	0,000
1409	-10,414	8,000	0,000	0,000	0,000	0,000
1413	-9,334	8,000	0,000	0,000	0,000	0,000
1414	-9,694	8,000	0,000	0,000	0,000	0,000
1415	-10,054	8,000	0,000	0,000	0,000	0,000
1605	1,176	-20,000	0,000	0,000	0,000	0,000
1609	1,765	-20,000	0,000	0,000	0,000	0,000
1610	2,353	-20,000	0,000	0,000	0,000	0,000
1611	2,941	-20,000	0,000	0,000	0,000	0,000
1695	-11,601	2,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
1696	-10,259	2,000	0,000	0,000	0,000	0,000
1697	-10,706	2,000	0,000	0,000	0,000	0,000
1698	-11,154	2,000	0,000	0,000	0,000	0,000
1711	-8,974	8,000	0,000	0,000	0,000	0,000
1712	-7,989	8,000	0,000	0,000	0,000	0,000
1713	-8,317	8,000	0,000	0,000	0,000	0,000
1714	-8,645	8,000	0,000	0,000	0,000	0,000
1727	-10,508	4,000	0,000	0,000	0,000	0,000
1731	-9,494	4,000	0,000	0,000	0,000	0,000
1732	-9,832	4,000	0,000	0,000	0,000	0,000
1733	-10,170	4,000	0,000	0,000	0,000	0,000
1769	3,529	-20,000	0,000	0,000	0,000	0,000
1773	4,118	-20,000	0,000	0,000	0,000	0,000
1774	4,706	-20,000	0,000	0,000	0,000	0,000
1775	5,294	-20,000	0,000	0,000	0,000	0,000
1823	-7,660	8,000	0,000	0,000	0,000	0,000
1827	-6,762	8,000	0,000	0,000	0,000	0,000
1828	-7,062	8,000	0,000	0,000	0,000	0,000
1829	-7,361	8,000	0,000	0,000	0,000	0,000
1943	-9,812	2,000	0,000	0,000	0,000	0,000
1947	-8,552	2,000	0,000	0,000	0,000	0,000
1948	-8,972	2,000	0,000	0,000	0,000	0,000
1949	-9,392	2,000	0,000	0,000	0,000	0,000
1953	-9,157	4,000	0,000	0,000	0,000	0,000
1954	-8,854	4,000	0,000	0,000	0,000	0,000
1955	-8,551	4,000	0,000	0,000	0,000	0,000
1956	-8,248	4,000	0,000	0,000	0,000	0,000
1963	-7,946	4,000	0,000	0,000	0,000	0,000
1967	-7,132	4,000	0,000	0,000	0,000	0,000
1968	-7,403	4,000	0,000	0,000	0,000	0,000
1969	-7,674	4,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
2175	5,882	-20,000	0,000	0,000	0,000	0,000
2176	6,471	-20,000	0,000	0,000	0,000	0,000
2177	7,059	-20,000	0,000	0,000	0,000	0,000
2178	7,647	-20,000	0,000	0,000	0,000	0,000
2185	-6,463	8,000	0,000	0,000	0,000	0,000
2189	-5,644	8,000	0,000	0,000	0,000	0,000
2190	-5,917	8,000	0,000	0,000	0,000	0,000
2191	-6,190	8,000	0,000	0,000	0,000	0,000
2229	-6,860	4,000	0,000	0,000	0,000	0,000
2230	-6,617	4,000	0,000	0,000	0,000	0,000
2231	-6,374	4,000	0,000	0,000	0,000	0,000
2232	-6,131	4,000	0,000	0,000	0,000	0,000
2239	-5,371	8,000	0,000	0,000	0,000	0,000
2243	-4,625	8,000	0,000	0,000	0,000	0,000
2244	-4,873	8,000	0,000	0,000	0,000	0,000
2245	-5,122	8,000	0,000	0,000	0,000	0,000
2261	-5,888	4,000	0,000	0,000	0,000	0,000
2262	-5,234	4,000	0,000	0,000	0,000	0,000
2263	-5,452	4,000	0,000	0,000	0,000	0,000
2264	-5,670	4,000	0,000	0,000	0,000	0,000
2305	-5,016	4,000	0,000	0,000	0,000	0,000
2309	-4,820	4,000	0,000	0,000	0,000	0,000
2310	-4,625	4,000	0,000	0,000	0,000	0,000
2311	-4,429	4,000	0,000	0,000	0,000	0,000
2439	-8,132	2,000	0,000	0,000	0,000	0,000
2440	-7,737	2,000	0,000	0,000	0,000	0,000
2441	-7,343	2,000	0,000	0,000	0,000	0,000
2442	-6,949	2,000	0,000	0,000	0,000	0,000
2475	8,235	-20,000	0,000	0,000	0,000	0,000
2479	8,824	-20,000	0,000	0,000	0,000	0,000
2480	9,412	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
2481	10,000	-20,000	0,000	0,000	0,000	0,000
2565	-6,554	2,000	0,000	0,000	0,000	0,000
2569	-5,444	2,000	0,000	0,000	0,000	0,000
2570	-5,814	2,000	0,000	0,000	0,000	0,000
2571	-6,184	2,000	0,000	0,000	0,000	0,000
2613	-4,376	8,000	0,000	0,000	0,000	0,000
2617	-3,695	8,000	0,000	0,000	0,000	0,000
2618	-3,922	8,000	0,000	0,000	0,000	0,000
2619	-4,149	8,000	0,000	0,000	0,000	0,000
2717	-3,468	8,000	0,000	0,000	0,000	0,000
2721	-2,848	8,000	0,000	0,000	0,000	0,000
2722	-3,055	8,000	0,000	0,000	0,000	0,000
2723	-3,261	8,000	0,000	0,000	0,000	0,000
2743	-4,234	4,000	0,000	0,000	0,000	0,000
2747	-3,709	4,000	0,000	0,000	0,000	0,000
2748	-3,884	4,000	0,000	0,000	0,000	0,000
2749	-4,059	4,000	0,000	0,000	0,000	0,000
2797	-3,534	4,000	0,000	0,000	0,000	0,000
2801	-3,377	4,000	0,000	0,000	0,000	0,000
2802	-3,220	4,000	0,000	0,000	0,000	0,000
2803	-3,063	4,000	0,000	0,000	0,000	0,000
2897	-5,073	2,000	0,000	0,000	0,000	0,000
2898	-4,726	2,000	0,000	0,000	0,000	0,000
2899	-4,378	2,000	0,000	0,000	0,000	0,000
2900	-4,030	2,000	0,000	0,000	0,000	0,000
2997	10,588	-20,000	0,000	0,000	0,000	0,000
3001	11,176	-20,000	0,000	0,000	0,000	0,000
3002	11,765	-20,000	0,000	0,000	0,000	0,000
3003	12,353	-20,000	0,000	0,000	0,000	0,000
3055	-2,906	4,000	0,000	0,000	0,000	0,000
3056	-2,765	4,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
3057	-2,624	4,000	0,000	0,000	0,000	0,000
3058	-2,483	4,000	0,000	0,000	0,000	0,000
3065	-2,343	4,000	0,000	0,000	0,000	0,000
3066	-2,217	4,000	0,000	0,000	0,000	0,000
3067	-2,091	4,000	0,000	0,000	0,000	0,000
3068	-1,964	4,000	0,000	0,000	0,000	0,000
3075	0,000	-3,924	0,000	0,000	0,000	0,000
3076	0,000	-3,849	0,000	0,000	0,000	0,000
3077	0,000	-3,773	0,000	0,000	0,000	0,000
3081	0,000	-3,698	0,000	0,000	0,000	0,000
3082	0,000	-3,608	0,000	0,000	0,000	0,000
3083	0,000	-3,518	0,000	0,000	0,000	0,000
3084	0,000	-3,428	0,000	0,000	0,000	0,000
3107	0,000	-4,000	0,000	0,000	0,000	0,000
3149	0,000	-3,232	0,000	0,000	0,000	0,000
3150	0,000	-3,125	0,000	0,000	0,000	0,000
3151	0,000	-3,018	0,000	0,000	0,000	0,000
3155	0,000	-3,338	0,000	0,000	0,000	0,000
3171	0,000	-2,911	0,000	0,000	0,000	0,000
3172	0,000	-2,784	0,000	0,000	0,000	0,000
3173	0,000	-2,657	0,000	0,000	0,000	0,000
3174	0,000	-2,530	0,000	0,000	0,000	0,000
3213	12,941	-20,000	0,000	0,000	0,000	0,000
3217	13,529	-20,000	0,000	0,000	0,000	0,000
3218	14,118	-20,000	0,000	0,000	0,000	0,000
3219	14,706	-20,000	0,000	0,000	0,000	0,000
3261	-3,683	2,000	0,000	0,000	0,000	0,000
3262	-2,703	2,000	0,000	0,000	0,000	0,000
3263	-3,030	2,000	0,000	0,000	0,000	0,000
3264	-3,356	2,000	0,000	0,000	0,000	0,000
3277	-2,641	8,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
3281	-2,075	8,000	0,000	0,000	0,000	0,000
3282	-2,264	8,000	0,000	0,000	0,000	0,000
3283	-2,452	8,000	0,000	0,000	0,000	0,000
3309	-1,887	8,000	0,000	0,000	0,000	0,000
3313	-1,371	8,000	0,000	0,000	0,000	0,000
3314	-1,543	8,000	0,000	0,000	0,000	0,000
3315	-1,715	8,000	0,000	0,000	0,000	0,000
3325	-1,838	4,000	0,000	0,000	0,000	0,000
3326	-1,499	4,000	0,000	0,000	0,000	0,000
3327	-1,612	4,000	0,000	0,000	0,000	0,000
3328	-1,725	4,000	0,000	0,000	0,000	0,000
3341	-1,386	4,000	0,000	0,000	0,000	0,000
3345	-1,285	4,000	0,000	0,000	0,000	0,000
3346	-1,183	4,000	0,000	0,000	0,000	0,000
3347	-1,082	4,000	0,000	0,000	0,000	0,000
3357	15,294	-20,000	0,000	0,000	0,000	0,000
3361	15,882	-20,000	0,000	0,000	0,000	0,000
3362	16,471	-20,000	0,000	0,000	0,000	0,000
3363	17,059	-20,000	0,000	0,000	0,000	0,000
3373	17,647	-20,000	0,000	0,000	0,000	0,000
3377	18,235	-20,000	0,000	0,000	0,000	0,000
3378	18,824	-20,000	0,000	0,000	0,000	0,000
3379	19,412	-20,000	0,000	0,000	0,000	0,000
3380	20,000	-20,000	0,000	0,000	0,000	0,000
3381	20,000	-19,389	0,000	0,000	0,000	0,000
3382	20,000	-18,778	0,000	0,000	0,000	0,000
3383	20,000	-18,167	0,000	0,000	0,000	0,000
3605	0,000	-2,252	0,000	0,000	0,000	0,000
3606	0,000	-2,101	0,000	0,000	0,000	0,000
3607	0,000	-1,950	0,000	0,000	0,000	0,000
3611	0,000	-2,403	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
3627	0,000	-1,799	0,000	0,000	0,000	0,000
3628	0,000	-1,619	0,000	0,000	0,000	0,000
3629	0,000	-1,439	0,000	0,000	0,000	0,000
3630	0,000	-1,260	0,000	0,000	0,000	0,000
3643	-2,377	2,000	0,000	0,000	0,000	0,000
3647	-2,071	2,000	0,000	0,000	0,000	0,000
3648	-1,764	2,000	0,000	0,000	0,000	0,000
3649	-1,458	2,000	0,000	0,000	0,000	0,000
3679	-1,199	8,000	0,000	0,000	0,000	0,000
3683	-0,728	8,000	0,000	0,000	0,000	0,000
3684	-0,885	8,000	0,000	0,000	0,000	0,000
3685	-1,042	8,000	0,000	0,000	0,000	0,000
3771	-0,981	4,000	0,000	0,000	0,000	0,000
3775	-0,708	4,000	0,000	0,000	0,000	0,000
3776	-0,799	4,000	0,000	0,000	0,000	0,000
3777	-0,890	4,000	0,000	0,000	0,000	0,000
3841	-0,618	4,000	0,000	0,000	0,000	0,000
3845	-0,536	4,000	0,000	0,000	0,000	0,000
3846	-0,455	4,000	0,000	0,000	0,000	0,000
3847	-0,373	4,000	0,000	0,000	0,000	0,000
3851	20,000	-17,556	0,000	0,000	0,000	0,000
3855	20,000	-16,944	0,000	0,000	0,000	0,000
3856	20,000	-16,333	0,000	0,000	0,000	0,000
3857	20,000	-15,722	0,000	0,000	0,000	0,000
3931	0,000	-0,866	0,000	0,000	0,000	0,000
3932	0,000	-0,652	0,000	0,000	0,000	0,000
3933	0,000	-0,439	0,000	0,000	0,000	0,000
3937	0,000	-1,080	0,000	0,000	0,000	0,000
4133	-0,572	8,000	0,000	0,000	0,000	0,000
4137	-0,143	8,000	0,000	0,000	0,000	0,000
4138	-0,286	8,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
4139	-0,429	8,000	0,000	0,000	0,000	0,000
4149	-1,151	2,000	0,000	0,000	0,000	0,000
4150	-0,288	2,000	0,000	0,000	0,000	0,000
4151	-0,576	2,000	0,000	0,000	0,000	0,000
4152	-0,863	2,000	0,000	0,000	0,000	0,000
4159	20,000	-15,111	0,000	0,000	0,000	0,000
4163	20,000	-14,500	0,000	0,000	0,000	0,000
4164	20,000	-13,889	0,000	0,000	0,000	0,000
4165	20,000	-13,278	0,000	0,000	0,000	0,000
4169	0,000	4,390	0,000	0,000	0,000	0,000
4170	0,000	4,474	0,000	0,000	0,000	0,000
4171	0,000	4,557	0,000	0,000	0,000	0,000
4175	0,000	4,307	0,000	0,000	0,000	0,000
4179	0,000	4,077	0,000	0,000	0,000	0,000
4180	0,000	4,153	0,000	0,000	0,000	0,000
4181	0,000	4,230	0,000	0,000	0,000	0,000
4201	-0,292	4,000	0,000	0,000	0,000	0,000
4205	-0,073	4,000	0,000	0,000	0,000	0,000
4206	-0,146	4,000	0,000	0,000	0,000	0,000
4207	-0,219	4,000	0,000	0,000	0,000	0,000
4211	0,000	3,786	0,000	0,000	0,000	0,000
4212	0,000	3,857	0,000	0,000	0,000	0,000
4213	0,000	3,929	0,000	0,000	0,000	0,000
4214	0,000	4,000	0,000	0,000	0,000	0,000
4317	0,000	0,029	0,000	0,000	0,000	0,000
4318	0,000	0,283	0,000	0,000	0,000	0,000
4319	0,000	0,537	0,000	0,000	0,000	0,000
4323	0,000	-0,225	0,000	0,000	0,000	0,000
4345	0,000	4,732	0,000	0,000	0,000	0,000
4346	0,000	4,823	0,000	0,000	0,000	0,000
4347	0,000	4,914	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
4351	0,000	4,641	0,000	0,000	0,000	0,000
4361	0,000	5,005	0,000	0,000	0,000	0,000
4362	0,000	5,105	0,000	0,000	0,000	0,000
4363	0,000	5,204	0,000	0,000	0,000	0,000
4364	0,000	5,304	0,000	0,000	0,000	0,000
4371	0,000	6,438	0,000	0,000	0,000	0,000
4372	0,000	6,567	0,000	0,000	0,000	0,000
4373	0,000	6,696	0,000	0,000	0,000	0,000
4377	0,000	6,825	0,000	0,000	0,000	0,000
4378	0,000	6,965	0,000	0,000	0,000	0,000
4379	0,000	7,106	0,000	0,000	0,000	0,000
4380	0,000	7,246	0,000	0,000	0,000	0,000
4387	0,000	5,511	0,000	0,000	0,000	0,000
4388	0,000	5,620	0,000	0,000	0,000	0,000
4389	0,000	5,728	0,000	0,000	0,000	0,000
4393	0,000	5,403	0,000	0,000	0,000	0,000
4403	0,000	5,955	0,000	0,000	0,000	0,000
4404	0,000	6,073	0,000	0,000	0,000	0,000
4405	0,000	6,191	0,000	0,000	0,000	0,000
4409	0,000	6,309	0,000	0,000	0,000	0,000
4419	0,000	5,836	0,000	0,000	0,000	0,000
4429	0,000	1,093	0,000	0,000	0,000	0,000
4430	0,000	1,396	0,000	0,000	0,000	0,000
4431	0,000	1,698	0,000	0,000	0,000	0,000
4435	0,000	0,791	0,000	0,000	0,000	0,000
4445	0,000	2,000	0,000	0,000	0,000	0,000
4446	0,000	2,286	0,000	0,000	0,000	0,000
4447	0,000	2,571	0,000	0,000	0,000	0,000
4448	0,000	2,857	0,000	0,000	0,000	0,000
4449	0,863	2,000	0,000	0,000	0,000	0,000
4450	0,576	2,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
4451	0,288	2,000	0,000	0,000	0,000	0,000
4497	0,000	8,000	0,000	0,000	0,000	0,000
4498	0,000	7,540	0,000	0,000	0,000	0,000
4499	0,000	7,693	0,000	0,000	0,000	0,000
4500	0,000	7,847	0,000	0,000	0,000	0,000
4501	0,750	8,000	0,000	0,000	0,000	0,000
4502	0,500	8,000	0,000	0,000	0,000	0,000
4503	0,250	8,000	0,000	0,000	0,000	0,000
4507	0,000	7,387	0,000	0,000	0,000	0,000
4601	0,000	3,286	0,000	0,000	0,000	0,000
4602	0,000	3,429	0,000	0,000	0,000	0,000
4603	0,000	3,571	0,000	0,000	0,000	0,000
4607	0,000	3,143	0,000	0,000	0,000	0,000
4617	0,000	3,714	0,000	0,000	0,000	0,000
4659	20,000	-12,667	0,000	0,000	0,000	0,000
4663	20,000	-12,056	0,000	0,000	0,000	0,000
4664	20,000	-11,444	0,000	0,000	0,000	0,000
4665	20,000	-10,833	0,000	0,000	0,000	0,000
4865	20,000	-10,222	0,000	0,000	0,000	0,000
4869	20,000	-9,611	0,000	0,000	0,000	0,000
4870	20,000	-9,000	0,000	0,000	0,000	0,000
4871	20,000	-8,389	0,000	0,000	0,000	0,000
4875	1,000	8,000	0,000	0,000	0,000	0,000
4879	2,500	8,000	0,000	0,000	0,000	0,000
4880	2,000	8,000	0,000	0,000	0,000	0,000
4881	1,500	8,000	0,000	0,000	0,000	0,000
4901	1,151	2,000	0,000	0,000	0,000	0,000
4902	2,071	2,000	0,000	0,000	0,000	0,000
4903	1,764	2,000	0,000	0,000	0,000	0,000
4904	1,458	2,000	0,000	0,000	0,000	0,000
4921	2,377	2,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
4925	3,356	2,000	0,000	0,000	0,000	0,000
4926	3,030	2,000	0,000	0,000	0,000	0,000
4927	2,703	2,000	0,000	0,000	0,000	0,000
5107	3,000	8,000	0,000	0,000	0,000	0,000
5111	4,500	8,000	0,000	0,000	0,000	0,000
5112	4,000	8,000	0,000	0,000	0,000	0,000
5113	3,500	8,000	0,000	0,000	0,000	0,000
5133	20,000	-7,778	0,000	0,000	0,000	0,000
5137	20,000	-7,167	0,000	0,000	0,000	0,000
5138	20,000	-6,556	0,000	0,000	0,000	0,000
5139	20,000	-5,944	0,000	0,000	0,000	0,000
5195	4,726	2,000	0,000	0,000	0,000	0,000
5196	4,378	2,000	0,000	0,000	0,000	0,000
5197	4,030	2,000	0,000	0,000	0,000	0,000
5201	3,683	2,000	0,000	0,000	0,000	0,000
5221	5,073	2,000	0,000	0,000	0,000	0,000
5222	6,184	2,000	0,000	0,000	0,000	0,000
5223	5,814	2,000	0,000	0,000	0,000	0,000
5224	5,444	2,000	0,000	0,000	0,000	0,000
5317	6,554	2,000	0,000	0,000	0,000	0,000
5318	7,737	2,000	0,000	0,000	0,000	0,000
5319	7,343	2,000	0,000	0,000	0,000	0,000
5320	6,949	2,000	0,000	0,000	0,000	0,000
5327	20,000	-5,333	0,000	0,000	0,000	0,000
5331	20,000	-4,722	0,000	0,000	0,000	0,000
5332	20,000	-4,111	0,000	0,000	0,000	0,000
5333	20,000	-3,500	0,000	0,000	0,000	0,000
5337	5,000	8,000	0,000	0,000	0,000	0,000
5341	6,875	8,000	0,000	0,000	0,000	0,000
5342	6,250	8,000	0,000	0,000	0,000	0,000
5343	5,625	8,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
5363	8,132	2,000	0,000	0,000	0,000	0,000
5367	9,392	2,000	0,000	0,000	0,000	0,000
5368	8,972	2,000	0,000	0,000	0,000	0,000
5369	8,552	2,000	0,000	0,000	0,000	0,000
5527	7,500	8,000	0,000	0,000	0,000	0,000
5528	9,375	8,000	0,000	0,000	0,000	0,000
5529	8,750	8,000	0,000	0,000	0,000	0,000
5530	8,125	8,000	0,000	0,000	0,000	0,000
5537	20,000	-2,889	0,000	0,000	0,000	0,000
5541	20,000	-2,278	0,000	0,000	0,000	0,000
5542	20,000	-1,667	0,000	0,000	0,000	0,000
5543	20,000	-1,056	0,000	0,000	0,000	0,000
5621	9,812	2,000	0,000	0,000	0,000	0,000
5622	11,154	2,000	0,000	0,000	0,000	0,000
5623	10,706	2,000	0,000	0,000	0,000	0,000
5624	10,259	2,000	0,000	0,000	0,000	0,000
5641	11,601	2,000	0,000	0,000	0,000	0,000
5645	13,030	2,000	0,000	0,000	0,000	0,000
5646	12,554	2,000	0,000	0,000	0,000	0,000
5647	12,077	2,000	0,000	0,000	0,000	0,000
5657	10,000	8,000	0,000	0,000	0,000	0,000
5661	11,875	8,000	0,000	0,000	0,000	0,000
5662	11,250	8,000	0,000	0,000	0,000	0,000
5663	10,625	8,000	0,000	0,000	0,000	0,000
5693	20,000	-0,444	0,000	0,000	0,000	0,000
5697	20,000	0,167	0,000	0,000	0,000	0,000
5698	20,000	0,778	0,000	0,000	0,000	0,000
5699	20,000	1,389	0,000	0,000	0,000	0,000
5735	15,029	2,000	0,000	0,000	0,000	0,000
5736	14,521	2,000	0,000	0,000	0,000	0,000
5737	14,014	2,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
5741	13,507	2,000	0,000	0,000	0,000	0,000
5751	15,536	2,000	0,000	0,000	0,000	0,000
5755	17,157	2,000	0,000	0,000	0,000	0,000
5756	16,617	2,000	0,000	0,000	0,000	0,000
5757	16,077	2,000	0,000	0,000	0,000	0,000
5787	12,500	8,000	0,000	0,000	0,000	0,000
5788	14,375	8,000	0,000	0,000	0,000	0,000
5789	13,750	8,000	0,000	0,000	0,000	0,000
5790	13,125	8,000	0,000	0,000	0,000	0,000
5797	20,000	2,000	0,000	0,000	0,000	0,000
5798	19,424	2,000	0,000	0,000	0,000	0,000
5799	18,849	2,000	0,000	0,000	0,000	0,000
5800	18,273	2,000	0,000	0,000	0,000	0,000
5801	20,000	2,500	0,000	0,000	0,000	0,000
5802	20,000	3,000	0,000	0,000	0,000	0,000
5803	20,000	3,500	0,000	0,000	0,000	0,000
5813	17,698	2,000	0,000	0,000	0,000	0,000
5833	15,000	8,000	0,000	0,000	0,000	0,000
5841	20,000	4,000	0,000	0,000	0,000	0,000
5846	17,500	8,000	0,000	0,000	0,000	0,000
5847	16,875	8,000	0,000	0,000	0,000	0,000
5848	16,250	8,000	0,000	0,000	0,000	0,000
5849	15,625	8,000	0,000	0,000	0,000	0,000
5862	20,000	4,500	0,000	0,000	0,000	0,000
5866	20,000	5,000	0,000	0,000	0,000	0,000
5867	20,000	5,500	0,000	0,000	0,000	0,000
5871	20,000	6,000	0,000	0,000	0,000	0,000
5878	20,000	8,000	0,000	0,000	0,000	0,000
5882	20,000	7,000	0,000	0,000	0,000	0,000
5883	20,000	7,500	0,000	0,000	0,000	0,000
5884	19,375	8,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
5885	18,125	8,000	0,000	0,000	0,000	0,000
5886	20,000	6,500	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

6. Results for phase 1

Table [10] Table of deformations phase no: 1

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
1	-20,000	-18,333	0,000	0,000	630,891	1,263
2	-20,000	-18,889	0,000	0,000	265,486	531,641
3	-20,000	-19,444	0,000	0,000	50,905	102,010
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	3,377	6,760
18	-20,000	-16,667	0,000	0,000	2,518	5,041
19	-20,000	-17,222	0,000	0,000	1,768	3,540
26	-20,000	-17,778	0,000	0,000	1,136	2,273
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
43	-15,294	-20,000	0,000	0,000	0,000	0,000
47	-14,706	-20,000	0,000	0,000	0,000	0,000
48	-14,118	-20,000	0,000	0,000	0,000	0,000
49	-13,529	-20,000	0,000	0,000	0,000	0,000
103	-20,000	-15,556	0,000	0,000	4,337	8,682
107	-20,000	-13,889	0,000	0,000	7,747	15,508
108	-20,000	-14,444	0,000	0,000	6,529	13,069
109	-20,000	-15,000	0,000	0,000	5,390	10,789
129	-20,000	-13,333	0,000	0,000	9,040	18,095
133	-20,000	-11,667	0,000	0,000	13,308	26,638
134	-20,000	-12,222	0,000	0,000	11,825	23,671

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
135	-20,000	-12,778	0,000	0,000	10,401	20,820
151	-12,941	-20,000	0,000	0,000	0,000	0,000
155	-12,353	-20,000	0,000	0,000	0,000	0,000
156	-11,765	-20,000	0,000	0,000	0,000	0,000
157	-11,176	-20,000	0,000	0,000	0,000	0,000
183	-10,588	-20,000	0,000	0,000	0,000	0,000
187	-10,000	-20,000	0,000	0,000	0,000	0,000
188	-9,412	-20,000	0,000	0,000	0,000	0,000
189	-8,824	-20,000	0,000	0,000	0,000	0,000
289	-20,000	-11,111	0,000	0,000	14,845	29,714
290	-20,000	-9,444	0,000	0,000	19,732	39,495
291	-20,000	-10,000	0,000	0,000	18,062	36,152
292	-20,000	-10,556	0,000	0,000	16,431	32,889
337	-20,000	-8,889	0,000	0,000	21,438	42,908
341	-20,000	-7,222	0,000	0,000	26,718	53,476
342	-20,000	-7,778	0,000	0,000	24,936	49,909
343	-20,000	-8,333	0,000	0,000	23,174	46,383
375	-8,235	-20,000	0,000	0,000	0,000	0,000
379	-7,647	-20,000	0,000	0,000	0,000	0,000
380	-7,059	-20,000	0,000	0,000	0,000	0,000
381	-6,471	-20,000	0,000	0,000	0,000	0,000
407	-20,000	-6,667	0,000	0,000	28,516	57,073
411	-20,000	-5,000	0,000	0,000	33,940	67,927
412	-20,000	-5,556	0,000	0,000	32,133	64,312
413	-20,000	-6,111	0,000	0,000	30,323	60,689
423	-20,000	-4,444	0,000	0,000	35,738	71,524
427	-20,000	-2,778	0,000	0,000	41,002	82,055
428	-20,000	-3,333	0,000	0,000	39,277	78,603
429	-20,000	-3,889	0,000	0,000	37,519	75,088
436	-20,000	-2,222	0,000	0,000	42,689	85,429
437	-20,000	-0,556	0,000	0,000	47,437	94,924

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
438	-20,000	-1,111	0,000	0,000	45,914	91,879
439	-20,000	-1,667	0,000	0,000	44,329	88,709
507	-5,882	-20,000	0,000	0,000	0,000	0,000
511	-5,294	-20,000	0,000	0,000	0,000	0,000
512	-4,706	-20,000	0,000	0,000	0,000	0,000
513	-4,118	-20,000	0,000	0,000	0,000	0,000
679	-20,000	1,500	0,000	0,000	52,411	104,863
680	-20,000	1,000	0,000	0,000	51,308	102,659
681	-20,000	0,500	0,000	0,000	50,133	100,312
685	-20,000	0,000	0,000	0,000	48,891	97,829
689	-18,273	2,000	-3,485	-6,960	52,951	105,942
690	-18,849	2,000	-2,322	-4,637	53,223	106,484
691	-19,424	2,000	-1,161	-2,318	53,385	106,808
695	-20,000	2,000	0,000	0,000	53,439	106,916
699	-20,000	3,500	0,000	0,000	54,650	109,337
700	-20,000	3,000	0,000	0,000	54,283	108,605
701	-20,000	2,500	0,000	0,000	53,879	107,798
711	-20,000	4,000	0,000	0,000	54,977	109,990
712	-18,249	4,000	-2,336	-4,651	54,473	108,984
713	-18,833	4,000	-1,556	-3,097	54,754	109,544
714	-19,416	4,000	-777,357	-1,548	54,921	109,879
715	-20,000	5,500	0,000	0,000	55,705	111,438
716	-20,000	5,000	0,000	0,000	55,505	111,042
717	-20,000	4,500	0,000	0,000	55,262	110,559
739	-20,000	8,000	0,000	0,000	56,066	112,145
740	-20,000	7,500	0,000	0,000	56,075	112,165
741	-20,000	7,000	0,000	0,000	56,045	112,109
742	-20,000	6,500	0,000	0,000	55,974	111,971
743	-18,285	8,000	227,042	483,461	55,574	111,161
744	-18,857	8,000	147,057	313,606	55,848	111,709
745	-19,428	8,000	72,234	154,185	56,012	112,036



		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
749	-20,000	6,000	0,000	0,000	55,861	111,748
753	-17,713	8,000	314,795	669,025	55,189	110,391
757	-16,150	8,000	616,877	1,302	53,546	107,106
758	-16,671	8,000	503,913	1,066	54,192	108,398
759	-17,192	8,000	403,915	856,639	54,739	109,491
769	-17,698	2,000	-4,652	-9,289	52,569	105,177
770	-16,077	2,000	-7,962	-15,899	50,864	101,770
771	-16,617	2,000	-6,853	-13,685	51,539	103,119
772	-17,157	2,000	-5,750	-11,483	52,106	104,252
795	-17,665	4,000	-3,120	-6,211	54,078	108,194
796	-16,095	4,000	-5,255	-10,461	52,421	104,884
797	-16,619	4,000	-4,538	-9,032	53,073	106,185
798	-17,142	4,000	-3,826	-7,617	53,624	107,286
837	-15,628	8,000	745,000	1,569	52,797	105,609
841	-14,203	8,000	1,193	2,495	50,194	100,408
842	-14,678	8,000	1,026	2,150	51,156	102,329
843	-15,153	8,000	877,045	1,842	52,022	104,061
847	-13,727	8,000	1,381	2,883	49,133	98,287
851	-12,428	8,000	2,025	4,204	45,679	91,386
852	-12,861	8,000	1,787	3,717	46,925	93,875
853	-13,294	8,000	1,573	3,278	48,075	96,172
991	-3,529	-20,000	0,000	0,000	0,000	0,000
995	-2,941	-20,000	0,000	0,000	0,000	0,000
996	-2,353	-20,000	0,000	0,000	0,000	0,000
997	-1,765	-20,000	0,000	0,000	0,000	0,000
1119	-15,536	2,000	-9,077	-18,126	50,078	100,199
1123	-14,014	2,000	-12,268	-24,501	47,213	94,471
1124	-14,521	2,000	-11,195	-22,357	48,280	96,605
1125	-15,029	2,000	-10,132	-20,233	49,234	98,511
1129	-15,572	4,000	-5,981	-11,905	51,666	103,374
1130	-15,103	4,000	-6,639	-13,216	50,896	101,837

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
1131	-14,634	4,000	-7,308	-14,547	50,036	100,118
1132	-14,165	4,000	-7,989	-15,902	49,080	98,209
1161	-13,696	4,000	-8,684	-17,285	48,025	96,100
1162	-12,435	4,000	-10,647	-21,193	44,643	89,344
1163	-12,855	4,000	-9,974	-19,855	45,863	91,782
1164	-13,276	4,000	-9,321	-18,554	46,989	94,030
1177	-11,994	8,000	2,289	4,747	44,332	88,693
1178	-10,809	8,000	3,176	6,561	40,070	80,178
1179	-11,204	8,000	2,851	5,896	41,590	83,216
1180	-11,599	8,000	2,556	5,294	43,009	86,050
1255	-1,176	-20,000	0,000	0,000	0,000	0,000
1259	-0,588	-20,000	0,000	0,000	0,000	0,000
1260	0,000	-20,000	0,000	0,000	0,000	0,000
1261	0,588	-20,000	0,000	0,000	0,000	0,000
1373	-13,507	2,000	-13,353	-26,669	46,025	92,095
1377	-12,077	2,000	-16,488	-32,933	41,960	83,969
1378	-12,554	2,000	-15,428	-30,816	43,440	86,928
1379	-13,030	2,000	-14,384	-28,729	44,792	89,632
1389	-12,015	4,000	-11,341	-22,576	43,323	86,706
1393	-11,638	4,000	-11,985	-23,859	42,049	84,160
1394	-11,261	4,000	-12,652	-25,188	40,683	81,432
1395	-10,884	4,000	-13,346	-26,571	39,221	78,510
1409	-10,414	8,000	3,535	7,295	38,439	76,921
1413	-9,334	8,000	4,722	9,722	33,346	66,747
1414	-9,694	8,000	4,290	8,838	35,155	70,360
1415	-10,054	8,000	3,895	8,031	36,850	73,746
1605	1,176	-20,000	0,000	0,000	0,000	0,000
1609	1,765	-20,000	0,000	0,000	0,000	0,000
1610	2,353	-20,000	0,000	0,000	0,000	0,000
1611	2,941	-20,000	0,000	0,000	0,000	0,000
1695	-11,601	2,000	-17,564	-35,085	40,344	80,736

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
1696	-10,259	2,000	-20,703	-41,363	34,972	69,992
1697	-10,706	2,000	-19,638	-39,232	36,907	73,862
1698	-11,154	2,000	-18,592	-37,141	38,694	77,436
1711	-8,974	8,000	5,197	10,692	31,414	62,886
1712	-7,989	8,000	6,749	13,868	25,398	50,868
1713	-8,317	8,000	6,186	12,717	27,532	55,133
1714	-8,645	8,000	5,670	11,661	29,534	59,131
1727	-10,508	4,000	-14,069	-28,014	37,655	75,381
1731	-9,494	4,000	-16,197	-32,261	32,871	65,820
1732	-9,832	4,000	-15,455	-30,779	34,565	69,206
1733	-10,170	4,000	-14,747	-29,366	36,158	72,389
1769	3,529	-20,000	0,000	0,000	0,000	0,000
1773	4,118	-20,000	0,000	0,000	0,000	0,000
1774	4,706	-20,000	0,000	0,000	0,000	0,000
1775	5,294	-20,000	0,000	0,000	0,000	0,000
1823	-7,660	8,000	7,362	15,124	23,117	46,313
1827	-6,762	8,000	9,334	19,175	16,014	32,120
1828	-7,062	8,000	8,625	17,716	18,536	37,160
1829	-7,361	8,000	7,969	16,368	20,899	41,881
1943	-9,812	2,000	-21,789	-43,537	32,880	65,807
1947	-8,552	2,000	-24,970	-49,904	26,038	52,113
1948	-8,972	2,000	-23,889	-47,740	28,486	57,013
1949	-9,392	2,000	-22,829	-45,618	30,763	61,569
1953	-9,157	4,000	-16,976	-33,818	31,068	62,215
1954	-8,854	4,000	-17,710	-35,284	29,353	58,786
1955	-8,551	4,000	-18,480	-36,824	27,537	55,154
1956	-8,248	4,000	-19,289	-38,444	25,613	51,306
1963	-7,946	4,000	-20,142	-40,151	23,573	47,227
1967	-7,132	4,000	-22,675	-45,227	17,444	34,959
1968	-7,403	4,000	-21,789	-43,451	19,599	39,274
1969	-7,674	4,000	-20,945	-41,760	21,640	43,358

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
2175	5,882	-20,000	0,000	0,000	0,000	0,000
2176	6,471	-20,000	0,000	0,000	0,000	0,000
2177	7,059	-20,000	0,000	0,000	0,000	0,000
2178	7,647	-20,000	0,000	0,000	0,000	0,000
2185	-6,463	8,000	10,100	20,753	13,317	26,730
2189	-5,644	8,000	12,501	25,740	4,897	9,899
2190	-5,917	8,000	11,651	23,964	7,889	15,882
2191	-6,190	8,000	10,850	22,303	10,690	21,481
2229	-6,860	4,000	-23,606	-47,094	15,166	30,397
2230	-6,617	4,000	-24,482	-48,850	13,012	26,083
2231	-6,374	4,000	-25,398	-50,688	10,745	21,540
2232	-6,131	4,000	-26,356	-52,611	8,356	16,753
2239	-5,371	8,000	13,396	27,630	1,697	3,497
2243	-4,625	8,000	16,167	33,500	-8,234	-16,455
2244	-4,873	8,000	15,190	31,428	-4,717	-9,373
2245	-5,122	8,000	14,243	29,447	-1,411	-2,733
2261	-5,888	4,000	-27,358	-54,622	5,838	11,705
2262	-5,234	4,000	-30,281	-60,488	-1,653	-3,316
2263	-5,452	4,000	-29,269	-58,457	968,312	1,941
2264	-5,670	4,000	-28,295	-56,502	3,463	6,942
2305	-5,016	4,000	-31,332	-62,595	-4,409	-8,843
2309	-4,820	4,000	-32,305	-64,548	-7,001	-14,043
2310	-4,625	4,000	-33,310	-66,561	-9,715	-19,488
2311	-4,429	4,000	-34,344	-68,634	-12,559	-25,193
2439	-8,132	2,000	-26,070	-52,108	23,407	46,846
2440	-7,737	2,000	-27,122	-54,214	20,759	41,545
2441	-7,343	2,000	-28,188	-56,350	17,927	35,874
2442	-6,949	2,000	-29,268	-58,514	14,898	29,809
2475	8,235	-20,000	0,000	0,000	0,000	0,000
2479	8,824	-20,000	0,000	0,000	0,000	0,000
2480	9,412	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
2481	10,000	-20,000	0,000	0,000	0,000	0,000
2565	-6,554	2,000	-30,357	-60,697	11,661	23,325
2569	-5,444	2,000	-33,426	-66,845	1,312	2,594
2570	-5,814	2,000	-32,410	-64,809	4,974	9,931
2571	-6,184	2,000	-31,384	-62,754	8,421	16,835
2613	-4,376	8,000	16,867	35,356	-11,990	-24,029
2617	-3,695	8,000	21,087	43,261	-23,593	-47,530
2618	-3,922	8,000	19,714	40,555	-19,379	-39,065
2619	-4,149	8,000	18,293	37,887	-15,443	-31,179
2717	-3,468	8,000	22,534	46,034	-28,093	-56,592
2721	-2,848	8,000	26,830	54,608	-42,309	-84,991
2722	-3,055	8,000	25,376	51,621	-37,282	-74,895
2723	-3,261	8,000	23,940	48,730	-32,535	-65,437
2743	-4,234	4,000	-35,406	-70,762	-15,540	-31,171
2747	-3,709	4,000	-38,387	-76,734	-24,293	-48,726
2748	-3,884	4,000	-37,375	-74,707	-21,250	-42,623
2749	-4,059	4,000	-36,380	-72,715	-18,334	-36,775
2797	-3,534	4,000	-39,415	-78,791	-27,470	-55,096
2801	-3,377	4,000	-40,346	-80,655	-30,436	-61,042
2802	-3,220	4,000	-41,285	-82,532	-33,519	-67,221
2803	-3,063	4,000	-42,227	-84,417	-36,722	-73,640
2897	-5,073	2,000	-34,425	-68,844	-2,577	-5,197
2898	-4,726	2,000	-35,335	-70,667	-6,442	-12,939
2899	-4,378	2,000	-36,208	-72,413	-10,520	-21,108
2900	-4,030	2,000	-37,028	-74,053	-14,816	-29,711
2997	10,588	-20,000	0,000	0,000	0,000	0,000
3001	11,176	-20,000	0,000	0,000	0,000	0,000
3002	11,765	-20,000	0,000	0,000	0,000	0,000
3003	12,353	-20,000	0,000	0,000	0,000	0,000
3055	-2,906	4,000	-43,170	-86,302	-40,050	-80,308
3056	-2,765	4,000	-44,012	-87,986	-43,141	-86,502

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
3057	-2,624	4,000	-44,847	-89,656	-46,339	-92,907
3058	-2,483	4,000	-45,673	-91,306	-49,645	-99,527
3065	-2,343	4,000	-46,484	-92,926	-53,061	-106,367
3066	-2,217	4,000	-47,196	-94,347	-56,218	-112,687
3067	-2,091	4,000	-47,889	-95,730	-59,466	-119,189
3068	-1,964	4,000	-48,559	-97,068	-62,805	-125,873
3075	0,000	-3,924	-26,363	-52,724	-42,581	-85,236
3076	0,000	-3,849	-26,478	-52,954	-42,962	-85,998
3077	0,000	-3,773	-26,593	-53,186	-43,344	-86,763
3081	0,000	-3,698	-26,710	-53,418	-43,729	-87,533
3082	0,000	-3,608	-26,849	-53,696	-44,188	-88,453
3083	0,000	-3,518	-26,988	-53,975	-44,651	-89,379
3084	0,000	-3,428	-27,129	-54,255	-45,116	-90,310
3107	0,000	-4,000	-26,248	-52,495	-42,203	-84,479
3149	0,000	-3,232	-27,439	-54,874	-46,145	-92,368
3150	0,000	-3,125	-27,608	-55,214	-46,709	-93,497
3151	0,000	-3,018	-27,779	-55,555	-47,277	-94,634
3155	0,000	-3,338	-27,270	-54,537	-45,584	-91,247
3171	0,000	-2,911	-27,951	-55,898	-47,849	-95,779
3172	0,000	-2,784	-28,156	-56,309	-48,534	-97,150
3173	0,000	-2,657	-28,363	-56,722	-49,224	-98,531
3174	0,000	-2,530	-28,572	-57,138	-49,919	-99,923
3213	12,941	-20,000	0,000	0,000	0,000	0,000
3217	13,529	-20,000	0,000	0,000	0,000	0,000
3218	14,118	-20,000	0,000	0,000	0,000	0,000
3219	14,706	-20,000	0,000	0,000	0,000	0,000
3261	-3,683	2,000	-37,778	-75,555	-19,329	-38,750
3262	-2,703	2,000	-39,341	-78,674	-33,187	-66,493
3263	-3,030	2,000	-38,931	-77,856	-28,387	-56,885
3264	-3,356	2,000	-38,403	-76,802	-23,765	-47,632
3277	-2,641	8,000	28,055	57,356	-47,807	-95,978

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
3281	-2,075	8,000	32,952	66,760	-64,312	-129,342
3282	-2,264	8,000	31,177	63,341	-58,365	-117,375
3283	-2,452	8,000	29,492	60,102	-52,834	-106,244
3309	-1,887	8,000	34,798	70,195	-70,705	-142,189
3313	-1,371	8,000	40,041	80,444	-90,771	-182,319
3314	-1,543	8,000	38,293	76,926	-83,658	-168,041
3315	-1,715	8,000	36,532	73,459	-76,984	-154,707
3325	-1,838	4,000	-49,202	-98,352	-66,237	-132,739
3326	-1,499	4,000	-50,762	-101,463	-75,915	-152,100
3327	-1,612	4,000	-50,273	-100,489	-72,617	-145,502
3328	-1,725	4,000	-49,752	-99,449	-69,390	-139,048
3341	-1,386	4,000	-51,214	-102,365	-79,285	-158,840
3345	-1,285	4,000	-51,585	-103,105	-82,364	-164,997
3346	-1,183	4,000	-51,921	-103,774	-85,498	-171,262
3347	-1,082	4,000	-52,218	-104,366	-88,683	-177,631
3357	15,294	-20,000	0,000	0,000	0,000	0,000
3361	15,882	-20,000	0,000	0,000	0,000	0,000
3362	16,471	-20,000	0,000	0,000	0,000	0,000
3363	17,059	-20,000	0,000	0,000	0,000	0,000
3373	17,647	-20,000	0,000	0,000	0,000	0,000
3377	18,235	-20,000	0,000	0,000	0,000	0,000
3378	18,824	-20,000	0,000	0,000	0,000	0,000
3379	19,412	-20,000	0,000	0,000	0,000	0,000
3380	20,000	-20,000	0,000	0,000	0,000	0,000
3381	20,000	-19,389	0,000	0,000	-14,177	-28,138
3382	20,000	-18,778	0,000	0,000	89,447	179,648
3383	20,000	-18,167	0,000	0,000	295,443	592,461
3605	0,000	-2,252	-29,032	-58,057	-51,460	-103,006
3606	0,000	-2,101	-29,284	-58,561	-52,306	-104,700
3607	0,000	-1,950	-29,537	-59,067	-53,160	-106,408
3611	0,000	-2,403	-28,781	-57,557	-50,620	-101,325

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
3627	0,000	-1,799	-29,792	-59,576	-54,020	-108,129
3628	0,000	-1,619	-30,096	-60,183	-55,050	-110,192
3629	0,000	-1,439	-30,401	-60,793	-56,090	-112,272
3630	0,000	-1,260	-30,707	-61,403	-57,137	-114,367
3643	-2,377	2,000	-39,611	-79,210	-38,150	-76,425
3647	-2,071	2,000	-39,714	-79,414	-42,941	-86,013
3648	-1,764	2,000	-39,651	-79,282	-47,837	-95,807
3649	-1,458	2,000	-39,398	-78,772	-52,812	-105,757
3679	-1,199	8,000	41,527	83,646	-98,585	-197,896
3683	-0,728	8,000	47,645	94,449	-122,229	-245,473
3684	-0,885	8,000	45,384	90,534	-113,613	-228,318
3685	-1,042	8,000	43,204	86,718	-105,729	-212,476
3771	-0,981	4,000	-52,474	-104,874	-91,919	-184,100
3775	-0,708	4,000	-52,926	-105,774	-100,847	-201,943
3776	-0,799	4,000	-52,816	-105,554	-97,837	-195,927
3777	-0,890	4,000	-52,664	-105,253	-94,860	-189,978
3841	-0,618	4,000	-52,993	-105,905	-103,888	-208,021
3845	-0,536	4,000	-53,014	-105,945	-106,638	-213,516
3846	-0,455	4,000	-52,996	-105,908	-109,408	-219,050
3847	-0,373	4,000	-52,937	-105,789	-112,196	-224,620
3851	20,000	-17,556	0,000	0,000	591,740	1,186
3855	20,000	-16,944	0,000	0,000	967,927	1,940
3856	20,000	-16,333	0,000	0,000	1,416	2,837
3857	20,000	-15,722	0,000	0,000	1,930	3,866
3931	0,000	-0,866	-31,375	-62,736	-59,453	-119,003
3932	0,000	-0,652	-31,735	-63,455	-60,723	-121,545
3933	0,000	-0,439	-32,091	-64,167	-62,000	-124,100
3937	0,000	-1,080	-31,012	-62,013	-58,191	-116,477
4133	-0,572	8,000	49,545	97,788	-131,601	-263,968
4137	-0,143	8,000	54,499	108,334	-160,661	-321,843
4138	-0,286	8,000	52,828	104,714	-150,288	-301,041

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
4139	-0,429	8,000	51,237	101,207	-140,567	-281,736
4149	-1,151	2,000	-38,933	-77,840	-57,830	-115,793
4150	-0,288	2,000	-36,319	-72,604	-71,832	-143,785
4151	-0,576	2,000	-37,420	-74,807	-67,228	-134,582
4152	-0,863	2,000	-38,287	-76,544	-62,546	-125,223
4159	20,000	-15,111	0,000	0,000	2,507	5,022
4163	20,000	-14,500	0,000	0,000	3,144	6,299
4164	20,000	-13,889	0,000	0,000	3,839	7,692
4165	20,000	-13,278	0,000	0,000	4,594	9,203
4169	0,000	4,390	-53,046	-106,000	-134,259	-268,734
4170	0,000	4,474	-53,127	-106,162	-136,165	-272,551
4171	0,000	4,557	-53,162	-106,231	-138,050	-276,324
4175	0,000	4,307	-52,920	-105,748	-132,333	-264,878
4179	0,000	4,077	-52,356	-104,622	-126,945	-254,090
4180	0,000	4,153	-52,578	-105,065	-128,754	-257,713
4181	0,000	4,230	-52,766	-105,441	-130,551	-261,309
4201	-0,292	4,000	-52,836	-105,586	-114,999	-230,219
4205	-0,073	4,000	-52,342	-104,596	-122,586	-245,376
4206	-0,146	4,000	-52,544	-105,001	-120,051	-240,312
4207	-0,219	4,000	-52,708	-105,330	-117,521	-235,258
4211	0,000	3,786	-51,224	-102,363	-119,979	-240,145
4212	0,000	3,857	-51,543	-103,000	-121,702	-243,594
4213	0,000	3,929	-51,835	-103,584	-123,417	-247,028
4214	0,000	4,000	-52,101	-104,114	-125,124	-250,445
4317	0,000	0,029	-32,849	-65,679	-64,810	-129,723
4318	0,000	0,283	-33,241	-66,461	-66,339	-132,783
4319	0,000	0,537	-33,613	-67,203	-67,865	-135,836
4323	0,000	-0,225	-32,442	-64,867	-63,282	-126,665
4345	0,000	4,732	-53,073	-106,053	-141,911	-284,055
4346	0,000	4,823	-52,933	-105,774	-143,878	-287,994
4347	0,000	4,914	-52,724	-105,357	-145,809	-291,862

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
4351	0,000	4,641	-53,147	-106,202	-139,911	-280,050
4361	0,000	5,005	-52,442	-104,795	-147,702	-295,652
4362	0,000	5,105	-52,045	-104,003	-149,718	-299,690
4363	0,000	5,204	-51,549	-103,014	-151,681	-303,621
4364	0,000	5,304	-50,947	-101,813	-153,586	-307,436
4371	0,000	6,438	-33,206	-66,458	-169,635	-339,595
4372	0,000	6,567	-29,383	-58,844	-170,597	-341,523
4373	0,000	6,696	-25,040	-50,196	-171,347	-343,026
4377	0,000	6,825	-20,125	-40,411	-171,883	-344,099
4378	0,000	6,965	-14,043	-28,307	-172,220	-344,771
4379	0,000	7,106	-7,121	-14,537	-172,321	-344,968
4380	0,000	7,246	706,723	1,027	-172,236	-344,792
4387	0,000	5,511	-49,306	-98,541	-157,359	-314,995
4388	0,000	5,620	-48,223	-96,381	-159,205	-318,693
4389	0,000	5,728	-46,966	-93,877	-160,958	-322,204
4393	0,000	5,403	-50,229	-100,382	-155,428	-311,126
4403	0,000	5,955	-43,710	-87,387	-164,289	-328,880
4404	0,000	6,073	-41,631	-83,243	-165,832	-331,971
4405	0,000	6,191	-39,256	-78,511	-167,227	-334,768
4409	0,000	6,309	-36,558	-73,136	-168,468	-337,256
4419	0,000	5,836	-45,521	-90,996	-162,610	-325,514
4429	0,000	1,093	-34,326	-68,624	-71,170	-142,450
4430	0,000	1,396	-34,631	-69,231	-72,928	-145,969
4431	0,000	1,698	-34,855	-69,676	-74,647	-149,407
4435	0,000	0,791	-33,959	-67,892	-69,382	-138,873
4445	0,000	2,000	-34,975	-69,913	-76,311	-152,737
4446	0,000	2,286	-38,740	-77,434	-83,226	-166,578
4447	0,000	2,571	-42,006	-83,957	-90,203	-180,542
4448	0,000	2,857	-44,826	-89,587	-97,222	-194,592
4449	0,863	2,000	-29,441	-58,846	-88,475	-177,042
4450	0,576	2,000	-31,534	-63,032	-84,687	-169,474

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISORIALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
4451	0,288	2,000	-33,380	-66,723	-80,614	-161,335
4497	0,000	8,000	56,548	112,181	-171,946	-344,503
4498	0,000	7,540	19,935	39,241	-171,726	-343,729
4499	0,000	7,693	31,540	62,324	-171,568	-343,432
4500	0,000	7,847	43,857	86,872	-171,847	-343,965
4501	0,750	8,000	68,838	135,699	-254,639	-509,681
4502	0,500	8,000	63,566	125,790	-220,619	-441,714
4503	0,250	8,000	59,498	117,954	-194,360	-389,212
4507	0,000	7,387	9,468	18,434	-172,048	-344,416
4601	0,000	3,286	-48,292	-96,509	-107,773	-215,710
4602	0,000	3,429	-49,252	-98,426	-111,280	-222,730
4603	0,000	3,571	-50,115	-100,149	-114,774	-229,725
4607	0,000	3,143	-47,234	-94,398	-104,258	-208,674
4617	0,000	3,714	-50,880	-101,676	-118,250	-236,683
4659	20,000	-12,667	0,000	0,000	5,408	10,833
4663	20,000	-12,056	0,000	0,000	6,283	12,586
4664	20,000	-11,444	0,000	0,000	7,221	14,464
4665	20,000	-10,833	0,000	0,000	8,223	16,472
4865	20,000	-10,222	0,000	0,000	9,294	18,617
4869	20,000	-9,611	0,000	0,000	10,434	20,900
4870	20,000	-9,000	0,000	0,000	11,646	23,327
4871	20,000	-8,389	0,000	0,000	12,931	25,900
4875	1,000	8,000	67,806	134,200	-310,269	-620,418
4879	2,500	8,000	11,984	23,597	-453,582	-907,016
4880	2,000	8,000	31,922	63,306	-433,032	-865,909
4881	1,500	8,000	50,806	100,787	-392,202	-784,239
4901	1,151	2,000	-27,110	-54,187	-91,925	-183,934
4902	2,071	2,000	-18,296	-36,570	-100,086	-200,231
4903	1,764	2,000	-21,436	-42,844	-97,904	-195,875
4904	1,458	2,000	-24,385	-48,739	-95,167	-190,408
4921	2,377	2,000	-15,007	-29,996	-101,669	-203,390

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
4925	3,356	2,000	-4,046	-8,093	-102,413	-204,864
4926	3,030	2,000	-7,717	-15,428	-102,910	-205,860
4927	2,703	2,000	-11,391	-22,770	-102,660	-205,365
5107	3,000	8,000	-6,177	-12,579	-460,291	-920,430
5111	4,500	8,000	-63,673	-127,151	-390,961	-781,808
5112	4,000	8,000	-45,338	-90,633	-432,589	-865,042
5113	3,500	8,000	-25,158	-50,408	-453,847	-907,546
5133	20,000	-7,778	0,000	0,000	14,291	28,622
5137	20,000	-7,167	0,000	0,000	15,724	31,492
5138	20,000	-6,556	0,000	0,000	17,230	34,507
5139	20,000	-5,944	0,000	0,000	18,807	37,663
5195	4,726	2,000	9,992	19,961	-92,715	-185,467
5196	4,378	2,000	6,757	13,497	-96,244	-192,524
5197	4,030	2,000	3,261	6,510	-99,089	-198,214
5201	3,683	2,000	-441,518	-889,686	-101,181	-202,397
5221	5,073	2,000	12,920	25,815	-88,585	-177,209
5222	6,184	2,000	19,946	39,864	-72,443	-144,934
5223	5,814	2,000	18,014	35,998	-78,207	-156,460
5224	5,444	2,000	15,669	31,310	-83,626	-167,296
5317	6,554	2,000	21,475	42,922	-66,444	-132,937
5318	7,737	2,000	23,939	47,857	-46,843	-93,729
5319	7,343	2,000	23,489	46,955	-53,352	-106,751
5320	6,949	2,000	22,682	45,338	-59,917	-119,882
5327	20,000	-5,333	0,000	0,000	20,449	40,951
5331	20,000	-4,722	0,000	0,000	22,152	44,359
5332	20,000	-4,111	0,000	0,000	23,905	47,868
5333	20,000	-3,500	0,000	0,000	25,698	51,456
5337	5,000	8,000	-78,164	-155,979	-306,542	-612,958
5341	6,875	8,000	-57,577	-115,889	-113,615	-228,187
5342	6,250	8,000	-68,387	-135,482	-151,685	-304,039
5343	5,625	8,000	-74,838	-148,469	-207,866	-415,776

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
5363	8,132	2,000	24,076	48,135	-40,466	-80,969
5367	9,392	2,000	22,954	45,895	-21,563	-43,140
5368	8,972	2,000	23,542	47,070	-27,573	-55,169
5369	8,552	2,000	23,933	47,850	-33,885	-67,801
5527	7,500	8,000	-50,608	-102,287	-86,018	-171,990
5528	9,375	8,000	-34,924	-70,862	-29,845	-59,673
5529	8,750	8,000	-39,530	-80,147	-44,349	-88,920
5530	8,125	8,000	-45,489	-91,399	-62,471	-125,291
5537	20,000	-2,889	0,000	0,000	27,517	55,098
5541	20,000	-2,278	0,000	0,000	29,347	58,760
5542	20,000	-1,667	0,000	0,000	31,167	62,401
5543	20,000	-1,056	0,000	0,000	32,956	65,979
5621	9,812	2,000	22,214	44,415	-15,879	-31,763
5622	11,154	2,000	19,230	38,445	41,017	105,757
5623	10,706	2,000	20,295	40,577	-4,887	-9,760
5624	10,259	2,000	21,300	42,588	-10,192	-20,379
5641	11,601	2,000	18,130	36,243	4,604	9,239
5645	13,030	2,000	14,570	29,119	16,907	33,864
5646	12,554	2,000	15,750	31,479	13,172	26,389
5647	12,077	2,000	16,941	33,863	9,078	18,194
5657	10,000	8,000	-31,223	-63,055	-17,798	-35,518
5661	11,875	8,000	-21,789	-43,912	7,651	15,372
5662	11,250	8,000	-24,569	-49,539	612,399	1,299
5663	10,625	8,000	-27,698	-55,888	-7,756	-15,440
5693	20,000	-0,444	0,000	0,000	34,688	69,444
5697	20,000	0,167	0,000	0,000	36,336	72,740
5698	20,000	0,778	0,000	0,000	37,870	75,807
5699	20,000	1,389	0,000	0,000	39,259	78,584
5735	15,029	2,000	9,883	19,744	29,095	58,249
5736	14,521	2,000	11,026	22,030	26,492	53,042
5737	14,014	2,000	12,202	24,381	23,568	47,192

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
5741	13,507	2,000	13,410	26,798	20,302	40,658
5751	15,536	2,000	8,773	17,525	31,394	62,849
5755	17,157	2,000	5,422	10,828	36,885	73,832
5756	16,617	2,000	6,509	13,000	35,354	70,770
5757	16,077	2,000	7,625	15,230	33,529	67,119
5787	12,500	8,000	-19,310	-38,902	13,617	27,298
5788	14,375	8,000	-13,192	-26,561	26,708	53,464
5789	13,750	8,000	-15,050	-30,306	23,014	46,081
5790	13,125	8,000	-17,077	-34,394	18,687	37,433
5797	20,000	2,000	0,000	0,000	40,473	81,008
5798	19,424	2,000	1,075	2,147	40,329	80,719
5799	18,849	2,000	2,156	4,306	39,893	79,849
5800	18,273	2,000	3,249	6,488	39,164	78,390
5801	20,000	2,500	0,000	0,000	40,736	81,536
5802	20,000	3,000	0,000	0,000	40,995	82,055
5803	20,000	3,500	0,000	0,000	41,237	82,540
5813	17,698	2,000	4,359	8,705	38,133	76,329
5833	15,000	8,000	-11,469	-23,088	29,854	59,753
5841	20,000	4,000	0,000	0,000	41,449	82,963
5846	17,500	8,000	-5,427	-10,922	38,061	76,155
5847	16,875	8,000	-6,848	-13,782	36,589	73,214
5848	16,250	8,000	-8,318	-16,741	34,752	69,541
5849	15,625	8,000	-9,852	-19,830	32,520	65,080
5862	20,000	4,500	0,000	0,000	41,615	83,294
5866	20,000	5,000	0,000	0,000	41,722	83,503
5867	20,000	5,500	0,000	0,000	41,756	83,569
5871	20,000	6,000	0,000	0,000	41,710	83,471
5878	20,000	8,000	0,000	0,000	40,609	81,250
5882	20,000	7,000	0,000	0,000	41,346	82,734
5883	20,000	7,500	0,000	0,000	41,023	82,083
5884	19,375	8,000	-1,337	-2,691	40,452	80,936

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISORIALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
5885	18,125	8,000	-4,042	-8,134	39,186	78,404
5886	20,000	6,500	0,000	0,000	41,574	83,196

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

7. Results for phase 2

Table [11] Table of deformations phase no: 2

Node No.	x-coord.	y-coord.	dUx [10⁻⁶ m]	Ux [10⁻⁶ m]	dUy [10⁻⁶ m]	Uy [10⁻⁶ m]
1	-20,000	-18,333	0,000	0,000	527,264	1,055
2	-20,000	-18,889	0,000	0,000	227,999	456,032
3	-20,000	-19,444	0,000	0,000	47,928	95,868
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	2,694	5,389
18	-20,000	-16,667	0,000	0,000	2,027	4,054
19	-20,000	-17,222	0,000	0,000	1,437	2,874
26	-20,000	-17,778	0,000	0,000	933,847	1,868
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
43	-15,294	-20,000	0,000	0,000	0,000	0,000
47	-14,706	-20,000	0,000	0,000	0,000	0,000
48	-14,118	-20,000	0,000	0,000	0,000	0,000
49	-13,529	-20,000	0,000	0,000	0,000	0,000
103	-20,000	-15,556	0,000	0,000	3,431	6,863
107	-20,000	-13,889	0,000	0,000	5,985	11,970
108	-20,000	-14,444	0,000	0,000	5,083	10,167
109	-20,000	-15,000	0,000	0,000	4,230	8,460
129	-20,000	-13,333	0,000	0,000	6,928	13,857
133	-20,000	-11,667	0,000	0,000	9,956	19,913
134	-20,000	-12,222	0,000	0,000	8,919	17,840

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011



Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
135	-20,000	-12,778	0,000	0,000	7,908	15,818
151	-12,941	-20,000	0,000	0,000	0,000	0,000
155	-12,353	-20,000	0,000	0,000	0,000	0,000
156	-11,765	-20,000	0,000	0,000	0,000	0,000
157	-11,176	-20,000	0,000	0,000	0,000	0,000
183	-10,588	-20,000	0,000	0,000	0,000	0,000
187	-10,000	-20,000	0,000	0,000	0,000	0,000
188	-9,412	-20,000	0,000	0,000	0,000	0,000
189	-8,824	-20,000	0,000	0,000	0,000	0,000
289	-20,000	-11,111	0,000	0,000	11,013	22,027
290	-20,000	-9,444	0,000	0,000	14,256	28,514
291	-20,000	-10,000	0,000	0,000	13,168	26,337
292	-20,000	-10,556	0,000	0,000	12,085	24,172
337	-20,000	-8,889	0,000	0,000	15,345	30,690
341	-20,000	-7,222	0,000	0,000	18,559	37,120
342	-20,000	-7,778	0,000	0,000	17,501	35,004
343	-20,000	-8,333	0,000	0,000	16,428	32,857
375	-8,235	-20,000	0,000	0,000	0,000	0,000
379	-7,647	-20,000	0,000	0,000	0,000	0,000
380	-7,059	-20,000	0,000	0,000	0,000	0,000
381	-6,471	-20,000	0,000	0,000	0,000	0,000
407	-20,000	-6,667	0,000	0,000	19,597	39,195
411	-20,000	-5,000	0,000	0,000	22,530	45,062
412	-20,000	-5,556	0,000	0,000	21,587	43,176
413	-20,000	-6,111	0,000	0,000	20,608	41,217
423	-20,000	-4,444	0,000	0,000	23,430	46,862
427	-20,000	-2,778	0,000	0,000	25,823	51,647
428	-20,000	-3,333	0,000	0,000	25,082	50,165
429	-20,000	-3,889	0,000	0,000	24,283	48,567
436	-20,000	-2,222	0,000	0,000	26,500	53,002
437	-20,000	-0,556	0,000	0,000	28,106	56,213

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
438	-20,000	-1,111	0,000	0,000	27,646	55,294
439	-20,000	-1,667	0,000	0,000	27,110	54,220
507	-5,882	-20,000	0,000	0,000	0,000	0,000
511	-5,294	-20,000	0,000	0,000	0,000	0,000
512	-4,706	-20,000	0,000	0,000	0,000	0,000
513	-4,118	-20,000	0,000	0,000	0,000	0,000
679	-20,000	1,500	0,000	0,000	29,082	58,165
680	-20,000	1,000	0,000	0,000	28,955	57,910
681	-20,000	0,500	0,000	0,000	28,755	57,511
685	-20,000	0,000	0,000	0,000	28,485	56,972
689	-18,273	2,000	-56,966	-113,160	28,655	57,310
690	-18,849	2,000	-39,494	-78,471	28,923	57,846
691	-19,424	2,000	-20,204	-40,150	29,083	58,166
695	-20,000	2,000	0,000	0,000	29,136	58,273
699	-20,000	3,500	0,000	0,000	29,007	58,013
700	-20,000	3,000	0,000	0,000	29,080	58,160
701	-20,000	2,500	0,000	0,000	29,123	58,246
711	-20,000	4,000	0,000	0,000	28,901	57,803
712	-18,249	4,000	1,002	2,005	28,380	56,759
713	-18,833	4,000	668,499	1,338	28,670	57,340
714	-19,416	4,000	334,423	669,308	28,844	57,687
715	-20,000	5,500	0,000	0,000	28,380	56,760
716	-20,000	5,000	0,000	0,000	28,589	57,179
717	-20,000	4,500	0,000	0,000	28,763	57,525
739	-20,000	8,000	0,000	0,000	26,767	53,532
740	-20,000	7,500	0,000	0,000	27,166	54,330
741	-20,000	7,000	0,000	0,000	27,527	55,053
742	-20,000	6,500	0,000	0,000	27,849	55,698
743	-18,285	8,000	3,349	6,699	26,257	52,513
744	-18,857	8,000	2,231	4,462	26,541	53,080
745	-19,428	8,000	1,115	2,230	26,710	53,419

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
749	-20,000	6,000	0,000	0,000	28,134	56,267
753	-17,713	8,000	4,470	8,942	25,858	51,715
757	-16,150	8,000	7,559	15,122	24,155	48,309
758	-16,671	8,000	6,525	13,054	24,825	49,649
759	-17,192	8,000	5,496	10,994	25,392	50,782
769	-17,698	2,000	-71,719	-142,414	28,277	56,554
770	-16,077	2,000	-90,314	-178,924	26,599	53,198
771	-16,617	2,000	-88,683	-175,882	27,262	54,524
772	-17,157	2,000	-82,208	-163,158	27,820	55,640
795	-17,665	4,000	1,334	2,670	27,970	55,940
796	-16,095	4,000	2,217	4,436	26,254	52,508
797	-16,619	4,000	1,925	3,852	26,928	53,857
798	-17,142	4,000	1,630	3,263	27,500	54,999
837	-15,628	8,000	8,597	17,199	23,379	46,758
841	-14,203	8,000	11,454	22,916	20,684	41,368
842	-14,678	8,000	10,499	21,005	21,679	43,358
843	-15,153	8,000	9,547	19,099	22,577	45,152
847	-13,727	8,000	12,411	24,830	19,588	39,175
851	-12,428	8,000	15,023	30,057	16,033	32,066
852	-12,861	8,000	14,154	28,318	17,312	34,624
853	-13,294	8,000	13,283	26,575	18,496	36,991
991	-3,529	-20,000	0,000	0,000	0,000	0,000
995	-2,941	-20,000	0,000	0,000	0,000	0,000
996	-2,353	-20,000	0,000	0,000	0,000	0,000
997	-1,765	-20,000	0,000	0,000	0,000	0,000
1119	-15,536	2,000	-86,237	-170,556	25,827	51,656
1123	-14,014	2,000	-36,326	-70,190	23,032	46,065
1124	-14,521	2,000	-60,085	-117,878	24,070	48,142
1125	-15,029	2,000	-76,453	-150,796	25,001	50,002
1129	-15,572	4,000	2,506	5,015	25,472	50,944
1130	-15,103	4,000	2,762	5,527	24,676	49,353

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
1131	-14,634	4,000	3,014	6,032	23,787	47,575
1132	-14,165	4,000	3,261	6,527	22,801	45,602
1161	-13,696	4,000	3,504	7,012	21,713	43,427
1162	-12,435	4,000	4,121	8,249	18,246	36,494
1163	-12,855	4,000	3,922	7,849	19,493	38,988
1164	-13,276	4,000	3,716	7,437	20,648	41,297
1177	-11,994	8,000	15,887	31,786	14,655	29,309
1178	-10,809	8,000	18,209	36,433	10,341	20,683
1179	-11,204	8,000	17,444	34,902	11,871	23,743
1180	-11,599	8,000	16,669	33,352	13,308	26,616
1255	-1,176	-20,000	0,000	0,000	0,000	0,000
1259	-0,588	-20,000	0,000	0,000	0,000	0,000
1260	0,000	-20,000	0,000	0,000	0,000	0,000
1261	0,588	-20,000	0,000	0,000	0,000	0,000
1373	-13,507	2,000	-4,308	-5,991	21,880	43,762
1377	-12,077	2,000	138,710	280,447	17,978	35,956
1378	-12,554	2,000	81,488	165,875	19,392	38,785
1379	-13,030	2,000	34,115	70,997	20,691	41,383
1389	-12,015	4,000	4,313	8,633	16,901	33,804
1393	-11,638	4,000	4,478	8,962	15,609	31,220
1394	-11,261	4,000	4,635	9,276	14,232	28,465
1395	-10,884	4,000	4,783	9,572	12,765	25,531
1409	-10,414	8,000	18,961	37,939	8,714	17,430
1413	-9,334	8,000	20,927	41,878	3,735	7,472
1414	-9,694	8,000	20,290	40,600	5,484	10,970
1415	-10,054	8,000	19,633	39,285	7,143	14,287
1605	1,176	-20,000	0,000	0,000	0,000	0,000
1609	1,765	-20,000	0,000	0,000	0,000	0,000
1610	2,353	-20,000	0,000	0,000	0,000	0,000
1611	2,941	-20,000	0,000	0,000	0,000	0,000
1695	-11,601	2,000	206,753	416,658	16,442	32,884

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
1696	-10,259	2,000	465,725	934,992	11,405	22,811
1697	-10,706	2,000	367,396	738,191	13,206	26,414
1698	-11,154	2,000	281,386	566,043	14,883	29,768
1711	-8,974	8,000	21,541	43,111	1,892	3,786
1712	-7,989	8,000	23,077	46,197	-3,651	-7,305
1713	-8,317	8,000	22,588	45,218	-1,717	-3,437
1714	-8,645	8,000	22,077	44,189	128,602	257,638
1727	-10,508	4,000	4,921	9,849	11,205	22,411
1731	-9,494	4,000	5,237	10,480	6,515	13,030
1732	-9,832	4,000	5,142	10,289	8,162	16,324
1733	-10,170	4,000	5,036	10,079	9,724	19,449
1769	3,529	-20,000	0,000	0,000	0,000	0,000
1773	4,118	-20,000	0,000	0,000	0,000	0,000
1774	4,706	-20,000	0,000	0,000	0,000	0,000
1775	5,294	-20,000	0,000	0,000	0,000	0,000
1823	-7,660	8,000	23,518	47,097	-5,674	-11,352
1827	-6,762	8,000	24,705	49,343	-11,648	-23,339
1828	-7,062	8,000	24,293	48,614	-9,550	-19,157
1829	-7,361	8,000	23,876	47,842	-7,571	-15,174
1943	-9,812	2,000	577,348	1,158	9,472	18,945
1947	-8,552	2,000	971,934	1,948	3,259	6,519
1948	-8,972	2,000	826,442	1,657	5,463	10,926
1949	-9,392	2,000	695,165	1,394	7,532	15,064
1953	-9,157	4,000	5,320	10,648	4,780	9,560
1954	-8,854	4,000	5,385	10,777	3,148	6,295
1955	-8,551	4,000	5,439	10,886	1,439	2,878
1956	-8,248	4,000	5,482	10,972	-347,510	-696,789
1963	-7,946	4,000	5,513	11,034	-2,216	-4,434
1967	-7,132	4,000	5,529	11,068	-7,663	-15,328
1968	-7,403	4,000	5,535	11,079	-5,776	-11,555
1969	-7,674	4,000	5,529	11,067	-3,961	-7,925

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
2175	5,882	-20,000	0,000	0,000	0,000	0,000
2176	6,471	-20,000	0,000	0,000	0,000	0,000
2177	7,059	-20,000	0,000	0,000	0,000	0,000
2178	7,647	-20,000	0,000	0,000	0,000	0,000
2185	-6,463	8,000	24,963	49,876	-13,858	-27,716
2189	-5,644	8,000	25,429	50,851	-20,225	-40,447
2190	-5,917	8,000	25,310	50,606	-18,030	-36,058
2191	-6,190	8,000	25,151	50,277	-15,908	-31,815
2229	-6,860	4,000	5,511	11,032	-9,622	-19,246
2230	-6,617	4,000	5,484	10,979	-11,441	-22,884
2231	-6,374	4,000	5,447	10,904	-13,322	-26,645
2232	-6,131	4,000	5,398	10,807	-15,264	-30,530
2239	-5,371	8,000	25,502	51,002	-22,494	-44,987
2243	-4,625	8,000	25,362	50,729	-29,096	-58,189
2244	-4,873	8,000	25,468	50,939	-26,837	-53,671
2245	-5,122	8,000	25,519	51,039	-24,635	-49,268
2261	-5,888	4,000	5,338	10,688	-17,270	-34,541
2262	-5,234	4,000	5,117	10,247	-22,984	-45,966
2263	-5,452	4,000	5,201	10,414	-21,027	-42,053
2264	-5,670	4,000	5,274	10,561	-19,123	-38,245
2305	-5,016	4,000	5,024	10,060	-24,993	-49,984
2309	-4,820	4,000	4,931	9,875	-26,839	-53,675
2310	-4,625	4,000	4,830	9,674	-28,727	-57,451
2311	-4,429	4,000	4,721	9,455	-30,657	-61,311
2439	-8,132	2,000	1,132	2,269	914,311	1,829
2440	-7,737	2,000	1,297	2,598	-1,423	-2,845
2441	-7,343	2,000	1,475	2,955	-3,897	-7,794
2442	-6,949	2,000	1,667	3,339	-6,516	-13,031
2475	8,235	-20,000	0,000	0,000	0,000	0,000
2479	8,824	-20,000	0,000	0,000	0,000	0,000
2480	9,412	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
2481	10,000	-20,000	0,000	0,000	0,000	0,000
2565	-6,554	2,000	1,872	3,750	-9,285	-18,568
2569	-5,444	2,000	2,507	5,020	-17,949	-35,896
2570	-5,814	2,000	2,288	4,582	-14,913	-29,825
2571	-6,184	2,000	2,075	4,156	-12,027	-24,053
2613	-4,376	8,000	25,213	50,435	-31,415	-62,827
2617	-3,695	8,000	24,470	48,953	-38,117	-76,232
2618	-3,922	8,000	24,787	49,584	-35,828	-71,654
2619	-4,149	8,000	25,034	50,078	-33,592	-67,183
2717	-3,468	8,000	24,091	48,196	-40,459	-80,916
2721	-2,848	8,000	22,649	45,316	-47,152	-94,303
2722	-3,055	8,000	23,203	46,423	-44,876	-89,750
2723	-3,261	8,000	23,683	47,381	-42,645	-85,287
2743	-4,234	4,000	4,603	9,220	-32,630	-65,256
2747	-3,709	4,000	4,246	8,505	-38,138	-76,271
2748	-3,884	4,000	4,371	8,757	-36,269	-72,534
2749	-4,059	4,000	4,491	8,995	-34,433	-68,862
2797	-3,534	4,000	4,113	8,241	-40,039	-80,072
2801	-3,377	4,000	3,990	7,993	-41,769	-83,533
2802	-3,220	4,000	3,861	7,736	-43,524	-87,042
2803	-3,063	4,000	3,727	7,469	-45,302	-90,600
2897	-5,073	2,000	2,729	5,464	-21,138	-42,275
2898	-4,726	2,000	2,937	5,881	-24,277	-48,552
2899	-4,378	2,000	3,140	6,286	-27,560	-55,117
2900	-4,030	2,000	3,330	6,668	-30,989	-61,974
2997	10,588	-20,000	0,000	0,000	0,000	0,000
3001	11,176	-20,000	0,000	0,000	0,000	0,000
3002	11,765	-20,000	0,000	0,000	0,000	0,000
3003	12,353	-20,000	0,000	0,000	0,000	0,000
3055	-2,906	4,000	3,589	7,193	-47,105	-94,203
3056	-2,765	4,000	3,462	6,938	-48,739	-97,472

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
3057	-2,624	4,000	3,331	6,676	-50,391	-100,776
3058	-2,483	4,000	3,196	6,408	-52,060	-104,114
3065	-2,343	4,000	3,059	6,133	-53,745	-107,484
3066	-2,217	4,000	2,933	5,881	-55,269	-110,532
3067	-2,091	4,000	2,805	5,625	-56,806	-113,605
3068	-1,964	4,000	2,673	5,363	-58,354	-116,702
3075	0,000	-3,924	-680,933	-1,364	-79,870	-159,735
3076	0,000	-3,849	-589,472	-1,181	-79,886	-159,768
3077	0,000	-3,773	-504,040	-1,010	-79,907	-159,810
3081	0,000	-3,698	-425,915	-853,499	-79,931	-159,858
3082	0,000	-3,608	-344,656	-690,922	-79,961	-159,919
3083	0,000	-3,518	-273,343	-548,235	-79,993	-159,982
3084	0,000	-3,428	-212,297	-426,078	-80,027	-160,050
3107	0,000	-4,000	-797,027	-1,596	-79,840	-159,676
3149	0,000	-3,232	-109,438	-220,216	-80,106	-160,207
3150	0,000	-3,125	-68,334	-137,924	-80,151	-160,298
3151	0,000	-3,018	-35,807	-72,784	-80,198	-160,392
3155	0,000	-3,338	-160,507	-322,433	-80,062	-160,120
3171	0,000	-2,911	-10,509	-22,100	-80,246	-160,488
3172	0,000	-2,784	11,762	22,552	-80,305	-160,606
3173	0,000	-2,657	27,165	53,472	-80,365	-160,726
3174	0,000	-2,530	37,151	73,563	-80,427	-160,850
3213	12,941	-20,000	0,000	0,000	0,000	0,000
3217	13,529	-20,000	0,000	0,000	0,000	0,000
3218	14,118	-20,000	0,000	0,000	0,000	0,000
3219	14,706	-20,000	0,000	0,000	0,000	0,000
3261	-3,683	2,000	3,502	7,011	-34,565	-69,126
3262	-2,703	2,000	3,795	7,596	-45,434	-90,864
3263	-3,030	2,000	3,738	7,484	-41,681	-83,358
3264	-3,356	2,000	3,637	7,281	-38,057	-76,111
3277	-2,641	8,000	22,004	44,028	-49,469	-98,936

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
3281	-2,075	8,000	19,832	39,686	-56,024	-112,045
3282	-2,264	8,000	20,641	41,302	-53,803	-107,605
3283	-2,452	8,000	21,364	42,747	-51,617	-103,232
3309	-1,887	8,000	18,944	37,910	-58,277	-116,552
3313	-1,371	8,000	15,948	31,920	-64,626	-129,251
3314	-1,543	8,000	17,050	34,124	-62,484	-124,965
3315	-1,715	8,000	18,047	36,117	-60,366	-120,730
3325	-1,838	4,000	2,540	5,096	-59,914	-119,823
3326	-1,499	4,000	2,166	4,349	-64,165	-128,324
3327	-1,612	4,000	2,293	4,603	-62,739	-125,473
3328	-1,725	4,000	2,418	4,852	-61,322	-122,639
3341	-1,386	4,000	2,036	4,089	-65,600	-131,193
3345	-1,285	4,000	1,917	3,851	-66,892	-133,779
3346	-1,183	4,000	1,795	3,607	-68,192	-136,378
3347	-1,082	4,000	1,670	3,356	-69,498	-138,990
3357	15,294	-20,000	0,000	0,000	0,000	0,000
3361	15,882	-20,000	0,000	0,000	0,000	0,000
3362	16,471	-20,000	0,000	0,000	0,000	0,000
3363	17,059	-20,000	0,000	0,000	0,000	0,000
3373	17,647	-20,000	0,000	0,000	0,000	0,000
3377	18,235	-20,000	0,000	0,000	0,000	0,000
3378	18,824	-20,000	0,000	0,000	0,000	0,000
3379	19,412	-20,000	0,000	0,000	0,000	0,000
3380	20,000	-20,000	0,000	0,000	0,000	0,000
3381	20,000	-19,389	0,000	0,000	60,227	120,459
3382	20,000	-18,778	0,000	0,000	278,737	557,496
3383	20,000	-18,167	0,000	0,000	638,529	1,277
3605	0,000	-2,252	45,907	91,354	-80,566	-161,127
3606	0,000	-2,101	45,765	91,232	-80,643	-161,282
3607	0,000	-1,950	43,612	87,095	-80,721	-161,438
3611	0,000	-2,403	42,983	85,353	-80,490	-160,975

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
3627	0,000	-1,799	40,239	80,527	-80,800	-161,596
3628	0,000	-1,619	35,408	71,084	-80,896	-161,787
3629	0,000	-1,439	30,283	61,067	-80,992	-161,979
3630	0,000	-1,260	25,280	51,305	-81,088	-162,172
3643	-2,377	2,000	3,792	7,592	-49,315	-98,626
3647	-2,071	2,000	3,726	7,459	-53,071	-106,137
3648	-1,764	2,000	3,581	7,170	-56,938	-113,871
3649	-1,458	2,000	3,343	6,693	-60,911	-121,817
3679	-1,199	8,000	14,720	29,467	-66,788	-133,573
3683	-0,728	8,000	10,803	21,634	-72,884	-145,766
3684	-0,885	8,000	12,234	24,495	-70,813	-141,624
3685	-1,042	8,000	13,527	27,081	-68,782	-137,563
3771	-0,981	4,000	1,540	3,098	-70,811	-141,616
3775	-0,708	4,000	1,169	2,355	-74,372	-148,738
3776	-0,799	4,000	1,297	2,612	-73,180	-146,354
3777	-0,890	4,000	1,421	2,859	-71,993	-143,980
3841	-0,618	4,000	1,036	2,089	-75,569	-151,132
3845	-0,536	4,000	911,403	1,841	-76,645	-153,284
3846	-0,455	4,000	782,163	1,583	-77,724	-155,443
3847	-0,373	4,000	647,447	1,313	-78,807	-157,608
3851	20,000	-17,556	0,000	0,000	1,124	2,248
3855	20,000	-16,944	0,000	0,000	1,722	3,444
3856	20,000	-16,333	0,000	0,000	2,419	4,838
3857	20,000	-15,722	0,000	0,000	3,203	6,407
3931	0,000	-0,866	15,723	32,770	-81,302	-162,599
3932	0,000	-0,652	11,528	24,721	-81,418	-162,833
3933	0,000	-0,439	7,971	17,969	-81,535	-163,066
3937	0,000	-1,080	20,632	42,267	-81,186	-162,367
4133	-0,572	8,000	9,191	18,412	-74,995	-149,987
4137	-0,143	8,000	3,178	6,387	-81,435	-162,866
4138	-0,286	8,000	5,685	11,400	-79,116	-158,228

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
4139	-0,429	8,000	7,591	15,211	-77,002	-154,002
4149	-1,151	2,000	2,989	5,986	-64,989	-129,972
4150	-0,288	2,000	1,141	2,291	-77,351	-154,697
4151	-0,576	2,000	1,958	3,924	-73,029	-146,054
4152	-0,863	2,000	2,548	5,104	-68,958	-137,911
4159	20,000	-15,111	0,000	0,000	4,066	8,131
4163	20,000	-14,500	0,000	0,000	4,996	9,991
4164	20,000	-13,889	0,000	0,000	5,985	11,970
4165	20,000	-13,278	0,000	0,000	7,025	14,050
4169	0,000	4,390	-57,633	-94,110	-83,947	-167,889
4170	0,000	4,474	-58,586	-95,557	-83,977	-167,949
4171	0,000	4,557	-59,554	-97,041	-84,006	-168,008
4175	0,000	4,307	-56,700	-92,705	-83,916	-167,827
4179	0,000	4,077	-54,252	-89,095	-83,828	-167,651
4180	0,000	4,153	-55,047	-90,253	-83,858	-167,711
4181	0,000	4,230	-55,863	-91,458	-83,887	-167,769
4201	-0,292	4,000	506,785	1,032	-79,892	-159,779
4205	-0,073	4,000	95,438	209,721	-82,820	-165,634
4206	-0,146	4,000	238,252	495,220	-81,842	-163,680
4207	-0,219	4,000	375,262	769,110	-80,867	-161,728
4211	0,000	3,786	-51,466	-85,170	-83,709	-167,414
4212	0,000	3,857	-52,114	-86,060	-83,739	-167,474
4213	0,000	3,929	-52,786	-86,999	-83,769	-167,532
4214	0,000	4,000	-53,482	-87,986	-83,797	-167,590
4317	0,000	0,029	1,875	6,639	-81,790	-163,576
4318	0,000	0,283	-1,016	1,374	-81,928	-163,852
4319	0,000	0,537	-3,830	-3,699	-82,066	-164,127
4323	0,000	-0,225	4,974	12,356	-81,652	-163,299
4345	0,000	4,732	-61,621	-100,242	-84,066	-168,127
4346	0,000	4,823	-62,715	-101,953	-84,096	-168,187
4347	0,000	4,914	-63,816	-103,685	-84,125	-168,246

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
4351	0,000	4,641	-60,537	-98,557	-84,035	-168,066
4361	0,000	5,005	-64,920	-105,432	-84,153	-168,302
4362	0,000	5,105	-66,126	-107,348	-84,183	-168,362
4363	0,000	5,204	-67,329	-109,270	-84,212	-168,420
4364	0,000	5,304	-68,526	-111,193	-84,240	-168,476
4371	0,000	6,438	-81,458	-132,664	-84,488	-168,972
4372	0,000	6,567	-82,901	-135,183	-84,508	-169,011
4373	0,000	6,696	-84,378	-137,796	-84,525	-169,046
4377	0,000	6,825	-85,911	-140,546	-84,541	-169,078
4378	0,000	6,965	-87,674	-143,758	-84,557	-169,109
4379	0,000	7,106	-89,569	-147,259	-84,570	-169,135
4380	0,000	7,246	-91,641	-151,138	-84,581	-169,157
4387	0,000	5,511	-71,001	-115,195	-84,296	-168,587
4388	0,000	5,620	-72,272	-117,265	-84,323	-168,641
4389	0,000	5,728	-73,527	-119,321	-84,349	-168,693
4393	0,000	5,403	-69,716	-113,112	-84,267	-168,530
4403	0,000	5,955	-76,100	-123,576	-84,399	-168,793
4404	0,000	6,073	-77,419	-125,780	-84,423	-168,842
4405	0,000	6,191	-78,727	-127,985	-84,446	-168,887
4409	0,000	6,309	-80,030	-130,205	-84,467	-168,929
4419	0,000	5,836	-74,766	-121,363	-84,374	-168,742
4429	0,000	1,093	-12,961	-20,578	-82,363	-164,721
4430	0,000	1,396	-17,447	-28,668	-82,522	-165,040
4431	0,000	1,698	-21,528	-35,820	-82,683	-165,360
4435	0,000	0,791	-6,981	-9,403	-82,202	-164,400
4445	0,000	2,000	-34,903	-61,402	-82,838	-165,672
4446	0,000	2,286	-40,431	-71,188	-82,992	-165,979
4447	0,000	2,571	-43,181	-75,288	-83,141	-166,277
4448	0,000	2,857	-45,144	-77,718	-83,285	-166,565
4449	0,863	2,000	-2,663	-5,319	-68,977	-137,949
4450	0,576	2,000	-1,958	-3,907	-73,079	-146,153

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
4451	0,288	2,000	-793,614	-1,579	-77,397	-154,789
4497	0,000	8,000	-108,257	-183,196	-84,603	-169,201
4498	0,000	7,540	-96,755	-160,876	-84,596	-169,188
4499	0,000	7,693	-100,067	-167,265	-84,601	-169,197
4500	0,000	7,847	-103,906	-174,718	-84,603	-169,202
4501	0,750	8,000	-11,170	-22,302	-72,605	-145,205
4502	0,500	8,000	-8,645	-17,253	-76,013	-152,022
4503	0,250	8,000	-5,171	-10,307	-79,712	-159,421
4507	0,000	7,387	-93,942	-155,497	-84,589	-169,174
4601	0,000	3,286	-47,647	-80,366	-83,489	-166,974
4602	0,000	3,429	-48,613	-81,491	-83,554	-167,104
4603	0,000	3,571	-49,676	-82,808	-83,618	-167,231
4607	0,000	3,143	-46,766	-79,402	-83,423	-166,841
4617	0,000	3,714	-50,844	-84,331	-83,679	-167,354
4659	20,000	-12,667	0,000	0,000	8,108	16,217
4663	20,000	-12,056	0,000	0,000	9,227	18,456
4664	20,000	-11,444	0,000	0,000	10,376	20,753
4665	20,000	-10,833	0,000	0,000	11,546	23,094
4865	20,000	-10,222	0,000	0,000	12,732	25,467
4869	20,000	-9,611	0,000	0,000	13,927	27,857
4870	20,000	-9,000	0,000	0,000	15,124	30,251
4871	20,000	-8,389	0,000	0,000	16,316	32,635
4875	1,000	8,000	-13,379	-26,719	-69,373	-138,742
4879	2,500	8,000	-21,744	-43,434	-51,099	-102,190
4880	2,000	8,000	-19,690	-39,332	-56,939	-113,871
4881	1,500	8,000	-16,972	-33,901	-63,028	-126,051
4901	1,151	2,000	-3,010	-6,011	-64,993	-129,982
4902	2,071	2,000	-3,749	-7,491	-53,067	-106,130
4903	1,764	2,000	-3,607	-7,206	-56,934	-113,864
4904	1,458	2,000	-3,368	-6,729	-60,909	-121,814
4921	2,377	2,000	-3,814	-7,622	-49,309	-98,614

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
4925	3,356	2,000	-3,656	-7,307	-38,048	-76,094
4926	3,030	2,000	-3,758	-7,511	-41,673	-83,344
4927	2,703	2,000	-3,815	-7,625	-45,427	-90,852
5107	3,000	8,000	-23,282	-46,502	-45,497	-90,984
5111	4,500	8,000	-25,614	-51,132	-30,279	-60,544
5112	4,000	8,000	-25,147	-50,213	-35,090	-70,166
5113	3,500	8,000	-24,390	-48,710	-40,165	-80,317
5133	20,000	-7,778	0,000	0,000	17,497	34,996
5137	20,000	-7,167	0,000	0,000	18,658	37,320
5138	20,000	-6,556	0,000	0,000	19,794	39,592
5139	20,000	-5,944	0,000	0,000	20,897	41,798
5195	4,726	2,000	-2,952	-5,902	-24,257	-48,517
5196	4,378	2,000	-3,155	-6,308	-27,543	-55,088
5197	4,030	2,000	-3,347	-6,691	-30,974	-61,949
5201	3,683	2,000	-3,520	-7,035	-34,553	-69,106
5221	5,073	2,000	-2,743	-5,485	-21,113	-42,233
5222	6,184	2,000	-2,088	-4,177	-11,989	-23,990
5223	5,814	2,000	-2,301	-4,601	-14,879	-29,769
5224	5,444	2,000	-2,520	-5,039	-17,919	-35,847
5317	6,554	2,000	-1,886	-3,771	-9,242	-18,498
5318	7,737	2,000	-1,315	-2,628	-1,371	-2,762
5319	7,343	2,000	-1,491	-2,982	-3,848	-7,714
5320	6,949	2,000	-1,682	-3,363	-6,469	-12,955
5327	20,000	-5,333	0,000	0,000	21,959	43,923
5331	20,000	-4,722	0,000	0,000	22,974	45,954
5332	20,000	-4,111	0,000	0,000	23,934	47,874
5333	20,000	-3,500	0,000	0,000	24,832	49,672
5337	5,000	8,000	-25,839	-51,564	-25,735	-51,455
5341	6,875	8,000	-24,866	-49,590	-10,670	-21,392
5342	6,250	8,000	-25,712	-51,217	-15,342	-30,709
5343	5,625	8,000	-25,956	-51,739	-20,394	-40,779

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
5363	8,132	2,000	-1,152	-2,302	967,579	1,914
5367	9,392	2,000	-721,819	-1,438	7,580	15,138
5368	8,972	2,000	-851,068	-1,698	5,514	11,006
5369	8,552	2,000	-994,271	-1,985	3,312	6,603
5527	7,500	8,000	-23,956	-47,763	-6,640	-13,295
5528	9,375	8,000	-20,089	-40,486	4,331	8,445
5529	8,750	8,000	-22,039	-43,883	1,244	2,236
5530	8,125	8,000	-23,578	-46,814	-2,525	-5,148
5537	20,000	-2,889	0,000	0,000	25,661	51,331
5541	20,000	-2,278	0,000	0,000	26,415	52,839
5542	20,000	-1,667	0,000	0,000	27,087	54,184
5543	20,000	-1,056	0,000	0,000	27,671	55,353
5621	9,812	2,000	-605,581	-1,205	9,516	19,012
5622	11,154	2,000	-310,375	-612,406	14,907	29,802
5623	10,706	2,000	-396,877	-785,660	13,237	26,460
5624	10,259	2,000	-494,946	-982,376	11,443	22,868
5641	11,601	2,000	-234,547	-460,821	16,458	32,907
5645	13,030	2,000	-55,097	-103,763	20,687	41,374
5646	12,554	2,000	-105,078	-202,912	19,394	38,785
5647	12,077	2,000	-164,635	-321,386	17,986	35,967
5657	10,000	8,000	-19,085	-38,474	6,933	13,836
5661	11,875	8,000	-15,856	-31,867	14,214	28,443
5662	11,250	8,000	-17,011	-34,218	12,030	24,044
5663	10,625	8,000	-18,173	-36,519	9,595	19,167
5693	20,000	-0,444	0,000	0,000	28,161	56,335
5697	20,000	0,167	0,000	0,000	28,554	57,121
5698	20,000	0,778	0,000	0,000	28,844	57,701
5699	20,000	1,389	0,000	0,000	29,028	58,069
5735	15,029	2,000	66,042	134,823	24,978	49,965
5736	14,521	2,000	47,277	98,150	24,051	48,110
5737	14,014	2,000	20,866	46,273	23,017	46,039

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
5741	13,507	2,000	-13,981	-22,434	21,871	43,744
5751	15,536	2,000	77,938	157,873	25,802	51,615
5755	17,157	2,000	78,668	157,811	27,790	55,592
5756	16,617	2,000	83,862	168,567	27,233	54,477
5757	16,077	2,000	83,912	169,171	26,571	53,154
5787	12,500	8,000	-14,687	-29,477	16,207	32,432
5788	14,375	8,000	-11,009	-22,071	21,016	42,049
5789	13,750	8,000	-12,244	-24,553	19,599	39,216
5790	13,125	8,000	-13,473	-27,026	17,999	36,016
5797	20,000	2,000	0,000	0,000	29,103	58,220
5798	19,424	2,000	19,726	39,438	29,050	58,114
5799	18,849	2,000	38,471	76,941	28,890	57,794
5800	18,273	2,000	55,275	110,620	28,622	57,258
5801	20,000	2,500	0,000	0,000	29,087	58,190
5802	20,000	3,000	0,000	0,000	29,043	58,101
5803	20,000	3,500	0,000	0,000	28,968	57,952
5813	17,698	2,000	69,183	138,591	28,245	56,504
5833	15,000	8,000	-9,772	-19,588	22,260	44,535
5841	20,000	4,000	0,000	0,000	28,862	57,740
5846	17,500	8,000	-4,856	-9,730	25,649	51,310
5847	16,875	8,000	-6,079	-12,181	25,028	50,067
5848	16,250	8,000	-7,306	-14,641	24,259	48,531
5849	15,625	8,000	-8,538	-17,110	23,339	46,691
5862	20,000	4,500	0,000	0,000	28,723	57,463
5866	20,000	5,000	0,000	0,000	28,550	57,117
5867	20,000	5,500	0,000	0,000	28,342	56,699
5871	20,000	6,000	0,000	0,000	28,097	56,209
5878	20,000	8,000	0,000	0,000	26,739	53,488
5882	20,000	7,000	0,000	0,000	27,494	55,001
5883	20,000	7,500	0,000	0,000	27,136	54,283
5884	19,375	8,000	-1,211	-2,426	26,672	53,353

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
5885	18,125	8,000	-3,638	-7,289	26,129	52,268
5886	20,000	6,500	0,000	0,000	27,815	55,643

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

8. Results for phase 3

Table [12] Table of deformations phase no: 3

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1	-20,000	-18,333	0,000	0,000	1,167	78,188
2	-20,000	-18,889	0,000	0,000	621,089	41,618
3	-20,000	-19,444	0,000	0,000	229,058	15,344
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	4,704	315,273
18	-20,000	-16,667	0,000	0,000	3,634	243,557
19	-20,000	-17,222	0,000	0,000	2,682	179,753
26	-20,000	-17,778	0,000	0,000	1,857	124,434
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
43	-15,294	-20,000	0,000	0,000	0,000	0,000
47	-14,706	-20,000	0,000	0,000	0,000	0,000
48	-14,118	-20,000	0,000	0,000	0,000	0,000
49	-13,529	-20,000	0,000	0,000	0,000	0,000
103	-20,000	-15,556	0,000	0,000	5,883	394,347
107	-20,000	-13,889	0,000	0,000	9,996	670,386
108	-20,000	-14,444	0,000	0,000	8,537	572,421
109	-20,000	-15,000	0,000	0,000	7,163	480,237
129	-20,000	-13,333	0,000	0,000	11,534	773,634
133	-20,000	-11,667	0,000	0,000	16,540	1,110
134	-20,000	-12,222	0,000	0,000	14,813	994,057

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
135	-20,000	-12,778	0,000	0,000	13,142	881,682
151	-12,941	-20,000	0,000	0,000	0,000	0,000
155	-12,353	-20,000	0,000	0,000	0,000	0,000
156	-11,765	-20,000	0,000	0,000	0,000	0,000
157	-11,176	-20,000	0,000	0,000	0,000	0,000
183	-10,588	-20,000	0,000	0,000	0,000	0,000
187	-10,000	-20,000	0,000	0,000	0,000	0,000
188	-9,412	-20,000	0,000	0,000	0,000	0,000
189	-8,824	-20,000	0,000	0,000	0,000	0,000
289	-20,000	-11,111	0,000	0,000	18,317	1,230
290	-20,000	-9,444	0,000	0,000	23,878	1,605
291	-20,000	-10,000	0,000	0,000	21,993	1,478
292	-20,000	-10,556	0,000	0,000	20,137	1,353
337	-20,000	-8,889	0,000	0,000	25,786	1,734
341	-20,000	-7,222	0,000	0,000	31,589	2,127
342	-20,000	-7,778	0,000	0,000	29,648	1,995
343	-20,000	-8,333	0,000	0,000	27,711	1,864
375	-8,235	-20,000	0,000	0,000	0,000	0,000
379	-7,647	-20,000	0,000	0,000	0,000	0,000
380	-7,059	-20,000	0,000	0,000	0,000	0,000
381	-6,471	-20,000	0,000	0,000	0,000	0,000
407	-20,000	-6,667	0,000	0,000	33,530	2,259
411	-20,000	-5,000	0,000	0,000	39,295	2,651
412	-20,000	-5,556	0,000	0,000	37,388	2,521
413	-20,000	-6,111	0,000	0,000	35,464	2,390
423	-20,000	-4,444	0,000	0,000	41,181	2,779
427	-20,000	-2,778	0,000	0,000	46,676	3,154
428	-20,000	-3,333	0,000	0,000	44,876	3,031
429	-20,000	-3,889	0,000	0,000	43,043	2,906
436	-20,000	-2,222	0,000	0,000	48,442	3,275
437	-20,000	-0,556	0,000	0,000	53,517	3,621

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
438	-20,000	-1,111	0,000	0,000	51,863	3,509
439	-20,000	-1,667	0,000	0,000	50,172	3,393
507	-5,882	-20,000	0,000	0,000	0,000	0,000
511	-5,294	-20,000	0,000	0,000	0,000	0,000
512	-4,706	-20,000	0,000	0,000	0,000	0,000
513	-4,118	-20,000	0,000	0,000	0,000	0,000
679	-20,000	1,500	0,000	0,000	59,315	4,015
680	-20,000	1,000	0,000	0,000	57,948	3,923
681	-20,000	0,500	0,000	0,000	56,555	3,828
685	-20,000	0,000	0,000	0,000	55,132	3,731
689	-18,273	2,000	-4,170	-281,610	60,566	4,100
690	-18,849	2,000	-2,781	-187,937	60,619	4,103
691	-19,424	2,000	-1,390	-94,027	60,648	4,105
695	-20,000	2,000	0,000	0,000	60,655	4,106
699	-20,000	3,500	0,000	0,000	85,962	5,813
700	-20,000	3,000	0,000	0,000	77,541	5,245
701	-20,000	2,500	0,000	0,000	69,115	4,676
711	-20,000	4,000	0,000	0,000	94,463	6,380
712	-18,249	4,000	-3,751	-259,805	94,740	6,373
713	-18,833	4,000	-2,590	-173,688	94,766	6,377
714	-19,416	4,000	-1,403	-87,071	94,743	6,379
769	-17,698	2,000	-5,550	-374,928	60,489	4,095
770	-16,077	2,000	-9,376	-634,883	60,172	4,072
771	-16,617	2,000	-8,112	-548,797	60,293	4,082
772	-17,157	2,000	-6,836	-462,115	60,398	4,089
795	-17,665	4,000	-4,813	-345,110	94,302	6,366
796	-16,095	4,000	-8,596	-570,073	94,034	6,341
797	-16,619	4,000	-7,531	-496,324	94,184	6,351
798	-17,142	4,000	-6,325	-421,335	94,188	6,360
991	-3,529	-20,000	0,000	0,000	0,000	0,000
995	-2,941	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
996	-2,353	-20,000	0,000	0,000	0,000	0,000
997	-1,765	-20,000	0,000	0,000	0,000	0,000
1119	-15,536	2,000	-10,626	-720,284	60,042	4,061
1123	-14,014	2,000	-14,082	-956,541	59,524	4,019
1124	-14,521	2,000	-12,942	-878,557	59,727	4,035
1125	-15,029	2,000	-11,787	-799,783	59,895	4,049
1129	-15,572	4,000	-9,896	-642,794	93,685	6,329
1130	-15,103	4,000	-11,101	-706,806	93,850	6,316
1131	-14,634	4,000	-11,925	-769,171	93,925	6,302
1132	-14,165	4,000	-12,673	-830,081	93,736	6,286
1161	-13,696	4,000	-13,650	-889,728	93,382	6,267
1162	-12,435	4,000	-15,592	-1,041	92,996	6,205
1163	-12,855	4,000	-14,998	-992,199	93,285	6,228
1164	-13,276	4,000	-14,458	-941,800	93,422	6,249
1255	-1,176	-20,000	0,000	0,000	0,000	0,000
1259	-0,588	-20,000	0,000	0,000	0,000	0,000
1260	0,000	-20,000	0,000	0,000	0,000	0,000
1261	0,588	-20,000	0,000	0,000	0,000	0,000
1373	-13,507	2,000	-15,203	-1,034	59,305	4,000
1377	-12,077	2,000	-18,289	-1,246	58,379	3,931
1378	-12,554	2,000	-17,267	-1,176	58,732	3,957
1379	-13,030	2,000	-16,241	-1,105	59,025	3,980
1389	-12,015	4,000	-16,336	-1,089	92,364	6,180
1393	-11,638	4,000	-16,756	-1,130	92,268	6,155
1394	-11,261	4,000	-17,345	-1,170	91,860	6,128
1395	-10,884	4,000	-17,923	-1,208	91,487	6,099
1605	1,176	-20,000	0,000	0,000	0,000	0,000
1609	1,765	-20,000	0,000	0,000	0,000	0,000
1610	2,353	-20,000	0,000	0,000	0,000	0,000
1611	2,941	-20,000	0,000	0,000	0,000	0,000
1695	-11,601	2,000	-19,277	-1,315	57,998	3,902

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISORIALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1696	-10,259	2,000	-21,999	-1,506	56,560	3,800
1697	-10,706	2,000	-21,102	-1,443	57,089	3,838
1698	-11,154	2,000	-20,187	-1,380	57,553	3,872
1727	-10,508	4,000	-18,415	-1,245	90,784	6,066
1731	-9,494	4,000	-19,747	-1,337	89,605	5,966
1732	-9,832	4,000	-19,278	-1,308	90,089	6,002
1733	-10,170	4,000	-18,794	-1,277	90,587	6,036
1769	3,529	-20,000	0,000	0,000	0,000	0,000
1773	4,118	-20,000	0,000	0,000	0,000	0,000
1774	4,706	-20,000	0,000	0,000	0,000	0,000
1775	5,294	-20,000	0,000	0,000	0,000	0,000
1943	-9,812	2,000	-22,871	-1,568	55,986	3,758
1947	-8,552	2,000	-25,290	-1,739	53,965	3,615
1948	-8,972	2,000	-24,487	-1,683	54,705	3,667
1949	-9,392	2,000	-23,679	-1,625	55,369	3,715
1953	-9,157	4,000	-20,079	-1,365	88,837	5,927
1954	-8,854	4,000	-20,421	-1,389	88,559	5,890
1955	-8,551	4,000	-20,798	-1,412	87,973	5,851
1956	-8,248	4,000	-21,154	-1,434	87,403	5,809
1963	-7,946	4,000	-21,392	-1,454	86,862	5,764
1967	-7,132	4,000	-22,148	-1,505	84,984	5,628
1968	-7,403	4,000	-21,898	-1,489	85,579	5,676
1969	-7,674	4,000	-21,609	-1,472	86,205	5,721
2175	5,882	-20,000	0,000	0,000	0,000	0,000
2176	6,471	-20,000	0,000	0,000	0,000	0,000
2177	7,059	-20,000	0,000	0,000	0,000	0,000
2178	7,647	-20,000	0,000	0,000	0,000	0,000
2229	-6,860	4,000	-22,277	-1,521	84,266	5,577
2230	-6,617	4,000	-22,395	-1,534	83,573	5,529
2231	-6,374	4,000	-22,620	-1,546	82,830	5,479
2232	-6,131	4,000	-22,822	-1,558	82,130	5,426

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
2261	-5,888	4,000	-22,883	-1,569	81,436	5,370
2262	-5,234	4,000	-23,436	-1,598	78,953	5,206
2263	-5,452	4,000	-23,304	-1,589	79,744	5,263
2264	-5,670	4,000	-23,062	-1,579	80,454	5,318
2305	-5,016	4,000	-23,611	-1,607	78,056	5,146
2309	-4,820	4,000	-23,809	-1,614	77,288	5,090
2310	-4,625	4,000	-23,943	-1,622	76,476	5,031
2311	-4,429	4,000	-24,156	-1,630	75,529	4,970
2439	-8,132	2,000	-26,065	-1,796	53,185	3,558
2440	-7,737	2,000	-26,788	-1,848	52,332	3,498
2441	-7,343	2,000	-27,522	-1,901	51,433	3,434
2442	-6,949	2,000	-28,247	-1,953	50,444	3,363
2475	8,235	-20,000	0,000	0,000	0,000	0,000
2479	8,824	-20,000	0,000	0,000	0,000	0,000
2480	9,412	-20,000	0,000	0,000	0,000	0,000
2481	10,000	-20,000	0,000	0,000	0,000	0,000
2565	-6,554	2,000	-28,955	-2,006	49,362	3,287
2569	-5,444	2,000	-30,947	-2,156	45,762	3,030
2570	-5,814	2,000	-30,285	-2,106	47,059	3,123
2571	-6,184	2,000	-29,619	-2,056	48,257	3,208
2743	-4,234	4,000	-24,456	-1,637	74,757	4,907
2747	-3,709	4,000	-25,018	-1,656	72,271	4,720
2748	-3,884	4,000	-24,820	-1,650	73,135	4,785
2749	-4,059	4,000	-24,666	-1,644	73,929	4,847
2797	-3,534	4,000	-25,282	-1,663	71,342	4,652
2801	-3,377	4,000	-25,531	-1,669	70,561	4,589
2802	-3,220	4,000	-25,778	-1,675	69,687	4,523
2803	-3,063	4,000	-26,072	-1,681	68,739	4,454
2897	-5,073	2,000	-31,604	-2,208	44,358	2,929
2898	-4,726	2,000	-32,219	-2,257	42,935	2,826
2899	-4,378	2,000	-32,830	-2,307	41,408	2,714

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
2900	-4,030	2,000	-33,438	-2,358	39,767	2,593
2997	10,588	-20,000	0,000	0,000	0,000	0,000
3001	11,176	-20,000	0,000	0,000	0,000	0,000
3002	11,765	-20,000	0,000	0,000	0,000	0,000
3003	12,353	-20,000	0,000	0,000	0,000	0,000
3055	-2,906	4,000	-26,515	-1,687	67,932	4,382
3056	-2,765	4,000	-26,902	-1,693	67,047	4,315
3057	-2,624	4,000	-27,375	-1,699	66,247	4,244
3058	-2,483	4,000	-27,931	-1,705	65,505	4,170
3065	-2,343	4,000	-28,480	-1,711	64,834	4,092
3066	-2,217	4,000	-29,018	-1,717	64,205	4,019
3067	-2,091	4,000	-29,619	-1,723	63,647	3,942
3068	-1,964	4,000	-30,229	-1,730	63,171	3,861
3075	0,000	-3,924	-54,683	-3,609	1,159	76,668
3076	0,000	-3,849	-54,683	-3,608	1,159	76,659
3077	0,000	-3,773	-54,683	-3,608	1,159	76,647
3081	0,000	-3,698	-54,682	-3,607	1,159	76,634
3082	0,000	-3,608	-54,679	-3,606	1,159	76,616
3083	0,000	-3,518	-54,676	-3,606	1,159	76,596
3084	0,000	-3,428	-54,671	-3,605	1,160	76,575
3107	0,000	-4,000	-54,683	-3,609	1,158	76,677
3149	0,000	-3,232	-54,652	-3,602	1,160	76,522
3150	0,000	-3,125	-54,637	-3,600	1,161	76,489
3151	0,000	-3,018	-54,618	-3,598	1,161	76,454
3155	0,000	-3,338	-54,664	-3,604	1,160	76,552
3171	0,000	-2,911	-54,595	-3,596	1,162	76,417
3172	0,000	-2,784	-54,561	-3,593	1,162	76,369
3173	0,000	-2,657	-54,520	-3,590	1,163	76,319
3174	0,000	-2,530	-54,472	-3,586	1,163	76,265
3213	12,941	-20,000	0,000	0,000	0,000	0,000
3217	13,529	-20,000	0,000	0,000	0,000	0,000

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3218	14,118	-20,000	0,000	0,000	0,000	0,000
3219	14,706	-20,000	0,000	0,000	0,000	0,000
3261	-3,683	2,000	-34,041	-2,411	38,007	2,461
3262	-2,703	2,000	-35,720	-2,570	32,349	2,017
3263	-3,030	2,000	-35,163	-2,516	34,358	2,178
3264	-3,356	2,000	-34,604	-2,463	36,240	2,325
3325	-1,838	4,000	-30,801	-1,737	62,754	3,775
3326	-1,499	4,000	-32,879	-1,760	61,708	3,519
3327	-1,612	4,000	-32,108	-1,751	61,918	3,609
3328	-1,725	4,000	-31,395	-1,744	62,264	3,694
3341	-1,386	4,000	-33,649	-1,769	61,632	3,423
3345	-1,285	4,000	-34,367	-1,778	61,639	3,332
3346	-1,183	4,000	-35,135	-1,788	61,804	3,236
3347	-1,082	4,000	-35,920	-1,799	62,144	3,134
3357	15,294	-20,000	0,000	0,000	0,000	0,000
3361	15,882	-20,000	0,000	0,000	0,000	0,000
3362	16,471	-20,000	0,000	0,000	0,000	0,000
3363	17,059	-20,000	0,000	0,000	0,000	0,000
3373	17,647	-20,000	0,000	0,000	0,000	0,000
3377	18,235	-20,000	0,000	0,000	0,000	0,000
3378	18,824	-20,000	0,000	0,000	0,000	0,000
3379	19,412	-20,000	0,000	0,000	0,000	0,000
3380	20,000	-20,000	0,000	0,000	0,000	0,000
3381	20,000	-19,389	0,000	0,000	-76,512	-5,404
3382	20,000	-18,778	0,000	0,000	-338,426	-23,734
3383	20,000	-18,167	0,000	0,000	-774,472	-54,171
3605	0,000	-2,252	-54,337	-3,575	1,165	76,138
3606	0,000	-2,101	-54,246	-3,569	1,166	76,062
3607	0,000	-1,950	-54,142	-3,561	1,167	75,983
3611	0,000	-2,403	-54,415	-3,581	1,164	76,209
3627	0,000	-1,799	-54,023	-3,552	1,168	75,899

Node	x-coord.	y-coord.	dUx	Ux	dUy	Uy
No.			[10 ⁻⁶ m]	[10 ⁻³ m]	[10 ⁻⁶ m]	[10 ⁻³ m]
3628	0,000	-1,619	-53,862	-3,541	1,169	75,795
3629	0,000	-1,439	-53,678	-3,529	1,170	75,686
3630	0,000	-1,260	-53,467	-3,514	1,171	75,572
3643	-2,377	2,000	-36,277	-2,625	30,202	1,842
3647	-2,071	2,000	-36,814	-2,678	28,023	1,662
3648	-1,764	2,000	-37,410	-2,730	25,669	1,466
3649	-1,458	2,000	-38,081	-2,780	23,086	1,254
3771	-0,981	4,000	-36,717	-1,812	62,581	3,026
3775	-0,708	4,000	-39,259	-1,857	65,900	2,697
3776	-0,799	4,000	-38,460	-1,840	64,402	2,814
3777	-0,890	4,000	-37,577	-1,826	63,335	2,923
3841	-0,618	4,000	-39,835	-1,875	67,784	2,573
3845	-0,536	4,000	-40,361	-1,892	69,888	2,452
3846	-0,455	4,000	-41,236	-1,912	72,370	2,321
3847	-0,373	4,000	-42,435	-1,935	77,183	2,179
3851	20,000	-17,556	0,000	0,000	-1,374	-95,922
3855	20,000	-16,944	0,000	0,000	-2,125	-148,211
3856	20,000	-16,333	0,000	0,000	-3,017	-210,292
3857	20,000	-15,722	0,000	0,000	-4,040	-281,437
3931	0,000	-0,866	-52,904	-3,478	1,174	75,306
3932	0,000	-0,652	-52,527	-3,455	1,176	75,153
3933	0,000	-0,439	-52,092	-3,430	1,178	74,995
3937	0,000	-1,080	-53,229	-3,499	1,173	75,453
4149	-1,151	2,000	-38,671	-2,826	20,045	1,025
4150	-0,288	2,000	-40,779	-2,910	7,308	311,923
4151	-0,576	2,000	-39,929	-2,889	12,748	553,415
4152	-0,863	2,000	-39,155	-2,861	16,561	794,882
4159	20,000	-15,111	0,000	0,000	-5,183	-360,946
4163	20,000	-14,500	0,000	0,000	-6,437	-448,136
4164	20,000	-13,889	0,000	0,000	-7,792	-542,352
4165	20,000	-13,278	0,000	0,000	-9,238	-642,954

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4169	0,000	4,390	-111,632	-2,892	1,056	69,210
4170	0,000	4,474	-118,178	-2,924	1,048	68,882
4171	0,000	4,557	-124,961	-2,957	1,038	68,561
4175	0,000	4,307	-105,332	-2,861	1,064	69,546
4179	0,000	4,077	-89,350	-2,787	1,084	70,516
4180	0,000	4,153	-94,450	-2,810	1,078	70,185
4181	0,000	4,230	-99,780	-2,835	1,071	69,862
4201	-0,292	4,000	-43,329	-1,964	88,724	2,027
4205	-0,073	4,000	-74,280	-2,452	34,562	906,619
4206	-0,146	4,000	-42,419	-2,045	61,940	1,417
4207	-0,219	4,000	-29,579	-1,894	84,570	1,802
4211	0,000	3,786	-72,159	-2,722	1,105	71,671
4212	0,000	3,857	-76,052	-2,735	1,100	71,422
4213	0,000	3,929	-80,166	-2,750	1,094	71,145
4214	0,000	4,000	-84,489	-2,767	1,088	70,854
4317	0,000	0,029	-50,881	-3,364	1,181	74,640
4318	0,000	0,283	-50,039	-3,321	1,183	74,443
4319	0,000	0,537	-49,039	-3,274	1,184	74,247
4323	0,000	-0,225	-51,587	-3,401	1,179	74,834
4345	0,000	4,732	-139,853	-3,032	1,014	67,908
4346	0,000	4,823	-147,968	-3,073	1,002	67,581
4347	0,000	4,914	-156,301	-3,115	991,108	67,261
4351	0,000	4,641	-131,970	-2,993	1,027	68,245
4361	0,000	5,005	-164,837	-3,158	980,576	66,954
4362	0,000	5,105	-174,360	-3,207	970,017	66,632
4363	0,000	5,204	-184,087	-3,255	960,604	66,320
4364	0,000	5,304	-194,001	-3,305	952,808	66,021
4371	0,000	6,438	-315,809	-3,895	929,058	63,587
4372	0,000	6,567	-330,250	-3,962	928,270	63,446
4373	0,000	6,696	-344,751	-4,029	927,604	63,329
4377	0,000	6,825	-359,301	-4,096	926,840	63,232

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4378	0,000	6,965	-375,209	-4,169	926,172	63,151
4379	0,000	7,106	-391,149	-4,242	925,820	63,093
4380	0,000	7,246	-407,112	-4,314	925,434	63,056
4387	0,000	5,511	-215,255	-3,411	941,638	65,420
4388	0,000	5,620	-226,586	-3,467	938,214	65,128
4389	0,000	5,728	-238,060	-3,523	936,046	64,858
4393	0,000	5,403	-204,085	-3,355	947,199	65,733
4403	0,000	5,955	-262,441	-3,641	933,625	64,358
4404	0,000	6,073	-275,341	-3,703	932,631	64,134
4405	0,000	6,191	-288,347	-3,765	931,537	63,933
4409	0,000	6,309	-301,442	-3,827	930,337	63,753
4419	0,000	5,836	-249,661	-3,580	934,697	64,608
4429	0,000	1,093	-46,229	-3,153	1,185	73,842
4430	0,000	1,396	-44,371	-3,078	1,183	73,655
4431	0,000	1,698	-42,425	-3,000	1,179	73,566
4435	0,000	0,791	-47,864	-3,222	1,185	74,059
4445	0,000	2,000	-40,698	-2,922	1,171	73,434
4446	0,000	2,286	-39,780	-2,854	1,162	73,592
4447	0,000	2,571	-40,211	-2,792	1,151	73,567
4448	0,000	2,857	-42,671	-2,741	1,141	73,372
4449	0,863	2,000	-41,565	-2,803	-9,955	-648,989
4450	0,576	2,000	-41,110	-2,837	-6,256	-446,959
4451	0,288	2,000	-40,775	-2,887	-2,695	-220,892
4497	0,000	8,000	-492,829	-4,702	927,711	63,025
4498	0,000	7,540	-440,518	-4,466	925,592	63,032
4499	0,000	7,693	-457,954	-4,544	926,080	63,026
4500	0,000	7,847	-475,391	-4,623	926,838	63,024
4501	0,750	8,000	-81,894	-1,356	-97,584	-1,174
4502	0,500	8,000	-76,145	-1,318	-112,132	-1,111
4503	0,250	8,000	-93,524	-1,492	-78,806	-714,586
4507	0,000	7,387	-423,088	-4,387	924,912	63,043

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4601	0,000	3,286	-51,599	-2,696	1,128	72,826
4602	0,000	3,429	-56,278	-2,693	1,122	72,582
4603	0,000	3,571	-61,904	-2,698	1,116	72,273
4607	0,000	3,143	-47,819	-2,706	1,133	73,028
4617	0,000	3,714	-68,499	-2,712	1,109	71,888
4659	20,000	-12,667	0,000	0,000	-10,766	-749,322
4663	20,000	-12,056	0,000	0,000	-12,366	-860,855
4664	20,000	-11,444	0,000	0,000	-14,031	-976,969
4665	20,000	-10,833	0,000	0,000	-15,752	-1,097
4865	20,000	-10,222	0,000	0,000	-17,520	-1,221
4869	20,000	-9,611	0,000	0,000	-19,328	-1,347
4870	20,000	-9,000	0,000	0,000	-21,167	-1,476
4871	20,000	-8,389	0,000	0,000	-23,031	-1,607
4875	1,000	8,000	-80,467	-1,342	-119,775	-1,391
4879	2,500	8,000	-85,452	-1,295	-80,839	-1,858
4880	2,000	8,000	-90,372	-1,342	-100,615	-1,733
4881	1,500	8,000	-87,845	-1,359	-116,173	-1,591
4901	1,151	2,000	-41,811	-2,779	-13,804	-834,996
4902	2,071	2,000	-40,399	-2,679	-24,943	-1,342
4903	1,764	2,000	-41,165	-2,714	-21,593	-1,186
4904	1,458	2,000	-41,692	-2,747	-17,790	-1,017
4921	2,377	2,000	-39,523	-2,643	-27,822	-1,488
4925	3,356	2,000	-36,668	-2,522	-34,467	-1,892
4926	3,030	2,000	-37,586	-2,563	-32,626	-1,767
4927	2,703	2,000	-38,552	-2,604	-30,434	-1,632
5107	3,000	8,000	-76,578	-1,238	-66,420	-1,992
5111	4,500	8,000	-55,635	-1,103	-49,550	-2,427
5112	4,000	8,000	-60,981	-1,139	-52,565	-2,283
5113	3,500	8,000	-68,032	-1,184	-57,718	-2,136
5133	20,000	-7,778	0,000	0,000	-24,913	-1,739
5137	20,000	-7,167	0,000	0,000	-26,804	-1,872

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5138	20,000	-6,556	0,000	0,000	-28,700	-2,005
5139	20,000	-5,944	0,000	0,000	-30,595	-2,138
5195	4,726	2,000	-33,471	-2,345	-39,599	-2,334
5196	4,378	2,000	-34,190	-2,391	-38,585	-2,233
5197	4,030	2,000	-34,968	-2,436	-37,406	-2,124
5201	3,683	2,000	-35,814	-2,481	-36,015	-2,008
5221	5,073	2,000	-32,801	-2,299	-40,484	-2,429
5222	6,184	2,000	-30,886	-2,149	-42,755	-2,694
5223	5,814	2,000	-31,498	-2,200	-42,069	-2,612
5224	5,444	2,000	-32,132	-2,250	-41,319	-2,523
5317	6,554	2,000	-30,286	-2,099	-43,397	-2,772
5318	7,737	2,000	-28,365	-1,933	-45,240	-2,987
5319	7,343	2,000	-29,014	-1,988	-44,652	-2,920
5320	6,949	2,000	-29,652	-2,044	-44,039	-2,849
5327	20,000	-5,333	0,000	0,000	-32,481	-2,271
5331	20,000	-4,722	0,000	0,000	-34,355	-2,403
5332	20,000	-4,111	0,000	0,000	-36,212	-2,533
5333	20,000	-3,500	0,000	0,000	-38,048	-2,662
5337	5,000	8,000	-52,380	-1,079	-47,296	-2,565
5341	6,875	8,000	-36,292	-968,888	-45,732	-3,006
5342	6,250	8,000	-40,184	-1,005	-45,427	-2,867
5343	5,625	8,000	-44,920	-1,049	-44,850	-2,717
5363	8,132	2,000	-27,700	-1,876	-45,807	-3,049
5367	9,392	2,000	-25,430	-1,692	-47,489	-3,219
5368	8,972	2,000	-26,213	-1,754	-46,950	-3,167
5369	8,552	2,000	-26,970	-1,815	-46,390	-3,110
5527	7,500	8,000	-29,775	-923,770	-45,731	-3,130
5528	9,375	8,000	-23,053	-846,137	-50,656	-3,451
5529	8,750	8,000	-25,434	-867,468	-49,411	-3,358
5530	8,125	8,000	-25,817	-886,750	-48,207	-3,251
5537	20,000	-2,889	0,000	0,000	-39,860	-2,788

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5541	20,000	-2,278	0,000	0,000	-41,644	-2,912
5542	20,000	-1,667	0,000	0,000	-43,399	-3,033
5543	20,000	-1,056	0,000	0,000	-45,123	-3,152
5621	9,812	2,000	-24,619	-1,629	-48,004	-3,267
5622	11,154	2,000	-21,850	-1,426	-49,484	-3,397
5623	10,706	2,000	-22,801	-1,494	-49,020	-3,358
5624	10,259	2,000	-23,725	-1,562	-48,527	-3,314
5641	11,601	2,000	-20,871	-1,357	-49,916	-3,433
5645	13,030	2,000	-17,596	-1,134	-51,089	-3,527
5646	12,554	2,000	-18,710	-1,209	-50,734	-3,499
5647	12,077	2,000	-19,803	-1,283	-50,343	-3,467
5657	10,000	8,000	-22,044	-816,517	-51,999	-3,532
5661	11,875	8,000	-15,519	-717,180	-54,727	-3,727
5662	11,250	8,000	-16,995	-748,027	-53,117	-3,671
5663	10,625	8,000	-20,842	-782,221	-52,275	-3,605
5693	20,000	-0,444	0,000	0,000	-46,816	-3,266
5697	20,000	0,167	0,000	0,000	-48,477	-3,378
5698	20,000	0,778	0,000	0,000	-50,107	-3,486
5699	20,000	1,389	0,000	0,000	-51,708	-3,590
5735	15,029	2,000	-12,741	-814,501	-52,233	-3,615
5736	14,521	2,000	-13,996	-896,186	-51,991	-3,596
5737	14,014	2,000	-15,237	-977,454	-51,718	-3,575
5741	13,507	2,000	-16,462	-1,058	-51,411	-3,552
5751	15,536	2,000	-11,475	-732,435	-52,444	-3,631
5755	17,157	2,000	-7,362	-468,106	-52,948	-3,668
5756	16,617	2,000	-8,742	-556,529	-52,807	-3,658
5757	16,077	2,000	-10,114	-644,655	-52,640	-3,645
5787	12,500	8,000	-16,067	-665,345	-55,680	-3,775
5788	14,375	8,000	-12,710	-532,694	-56,599	-3,892
5789	13,750	8,000	-13,741	-585,178	-56,265	-3,860
5790	13,125	8,000	-15,692	-624,567	-55,895	-3,822

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5797	20,000	2,000	0,000	0,000	-53,280	-3,691
5798	19,424	2,000	-1,498	-94,999	-53,267	-3,690
5799	18,849	2,000	-2,995	-189,942	-53,226	-3,687
5800	18,273	2,000	-4,487	-284,772	-53,158	-3,682
5801	20,000	2,500	0,000	0,000	-53,818	-3,729
5802	20,000	3,000	0,000	0,000	-54,352	-3,765
5803	20,000	3,500	0,000	0,000	-54,882	-3,799
5813	17,698	2,000	-5,973	-379,434	-53,063	-3,676
5833	15,000	8,000	-11,069	-485,709	-56,795	-3,921
5841	20,000	4,000	0,000	0,000	-55,411	-3,831
5846	17,500	8,000	-5,507	-252,014	-58,237	-3,993
5847	16,875	8,000	-6,140	-313,882	-57,857	-3,982
5848	16,250	8,000	-8,325	-366,121	-57,671	-3,966
5849	15,625	8,000	-9,169	-420,907	-57,246	-3,944
5862	20,000	4,500	0,000	0,000	-55,941	-3,862
5866	20,000	5,000	0,000	0,000	-56,472	-3,891
5867	20,000	5,500	0,000	0,000	-56,992	-3,918
5871	20,000	6,000	0,000	0,000	-57,479	-3,945
5878	20,000	8,000	0,000	0,000	-58,499	-4,016
5882	20,000	7,000	0,000	0,000	-58,470	-3,992
5883	20,000	7,500	0,000	0,000	-58,540	-4,010
5884	19,375	8,000	-887,494	-68,063	-58,548	-4,015
5885	18,125	8,000	-4,540	-187,176	-58,024	-4,004
5886	20,000	6,500	0,000	0,000	-58,062	-3,968

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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9. Results for phase 4

Table [13] Table of deformations phase no: 4

Node No.	x-coord.	y-coord.	dUx [10⁻⁶ m]	Ux [10⁻⁶ m]	dUy [10⁻⁶ m]	Uy [10⁻³ m]
1	-20,000	-18,333	0,000	0,000	945,073	1,893
2	-20,000	-18,889	0,000	0,000	397,608	796,774
3	-20,000	-19,444	0,000	0,000	76,118	152,719
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	5,059	10,133
18	-20,000	-16,667	0,000	0,000	3,772	7,555
19	-20,000	-17,222	0,000	0,000	2,649	5,305
26	-20,000	-17,778	0,000	0,000	1,701	3,407
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
43	-15,294	-20,000	0,000	0,000	0,000	0,000
47	-14,706	-20,000	0,000	0,000	0,000	0,000
48	-14,118	-20,000	0,000	0,000	0,000	0,000
49	-13,529	-20,000	0,000	0,000	0,000	0,000
103	-20,000	-15,556	0,000	0,000	6,497	13,012
107	-20,000	-13,889	0,000	0,000	11,608	23,245
108	-20,000	-14,444	0,000	0,000	9,782	19,589
109	-20,000	-15,000	0,000	0,000	8,075	16,172
129	-20,000	-13,333	0,000	0,000	13,545	27,124
133	-20,000	-11,667	0,000	0,000	19,941	39,931
134	-20,000	-12,222	0,000	0,000	17,719	35,482

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
135	-20,000	-12,778	0,000	0,000	15,585	31,208
151	-12,941	-20,000	0,000	0,000	0,000	0,000
155	-12,353	-20,000	0,000	0,000	0,000	0,000
156	-11,765	-20,000	0,000	0,000	0,000	0,000
157	-11,176	-20,000	0,000	0,000	0,000	0,000
183	-10,588	-20,000	0,000	0,000	0,000	0,000
187	-10,000	-20,000	0,000	0,000	0,000	0,000
188	-9,412	-20,000	0,000	0,000	0,000	0,000
189	-8,824	-20,000	0,000	0,000	0,000	0,000
289	-20,000	-11,111	0,000	0,000	22,245	44,542
290	-20,000	-9,444	0,000	0,000	29,569	59,204
291	-20,000	-10,000	0,000	0,000	27,065	54,192
292	-20,000	-10,556	0,000	0,000	24,621	49,301
337	-20,000	-8,889	0,000	0,000	32,125	64,322
341	-20,000	-7,222	0,000	0,000	40,042	80,167
342	-20,000	-7,778	0,000	0,000	37,369	74,819
343	-20,000	-8,333	0,000	0,000	34,728	69,532
375	-8,235	-20,000	0,000	0,000	0,000	0,000
379	-7,647	-20,000	0,000	0,000	0,000	0,000
380	-7,059	-20,000	0,000	0,000	0,000	0,000
381	-6,471	-20,000	0,000	0,000	0,000	0,000
407	-20,000	-6,667	0,000	0,000	42,737	85,561
411	-20,000	-5,000	0,000	0,000	50,871	101,839
412	-20,000	-5,556	0,000	0,000	48,161	96,416
413	-20,000	-6,111	0,000	0,000	45,447	90,984
423	-20,000	-4,444	0,000	0,000	53,568	107,233
427	-20,000	-2,778	0,000	0,000	61,465	123,030
428	-20,000	-3,333	0,000	0,000	58,876	117,851
429	-20,000	-3,889	0,000	0,000	56,240	112,578
436	-20,000	-2,222	0,000	0,000	63,996	128,091
437	-20,000	-0,556	0,000	0,000	71,124	142,338

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
438	-20,000	-1,111	0,000	0,000	68,837	137,769
439	-20,000	-1,667	0,000	0,000	66,458	133,012
507	-5,882	-20,000	0,000	0,000	0,000	0,000
511	-5,294	-20,000	0,000	0,000	0,000	0,000
512	-4,706	-20,000	0,000	0,000	0,000	0,000
513	-4,118	-20,000	0,000	0,000	0,000	0,000
679	-20,000	1,500	0,000	0,000	78,596	157,261
680	-20,000	1,000	0,000	0,000	76,938	153,951
681	-20,000	0,500	0,000	0,000	75,172	150,426
685	-20,000	0,000	0,000	0,000	73,306	146,699
689	-18,273	2,000	-5,242	-10,457	79,409	158,882
690	-18,849	2,000	-3,493	-6,967	79,817	159,697
691	-19,424	2,000	-1,746	-3,482	80,060	160,183
695	-20,000	2,000	0,000	0,000	80,141	160,344
699	-20,000	3,500	0,000	0,000	81,960	163,978
700	-20,000	3,000	0,000	0,000	81,409	162,879
701	-20,000	2,500	0,000	0,000	80,802	161,667
711	-20,000	4,000	0,000	0,000	82,452	164,959
712	-18,249	4,000	-3,528	-7,006	81,695	163,448
713	-18,833	4,000	-2,350	-4,666	82,117	164,290
714	-19,416	4,000	-1,174	-2,331	82,368	164,792
715	-20,000	5,500	0,000	0,000	83,552	167,142
716	-20,000	5,000	0,000	0,000	83,249	166,544
717	-20,000	4,500	0,000	0,000	82,882	165,816
739	-20,000	8,000	0,000	0,000	84,112	168,224
740	-20,000	7,500	0,000	0,000	84,121	168,250
741	-20,000	7,000	0,000	0,000	84,072	168,161
742	-20,000	6,500	0,000	0,000	83,963	167,950
743	-18,285	8,000	309,874	686,327	83,373	166,748
744	-18,857	8,000	200,219	444,605	83,785	167,570
745	-19,428	8,000	98,198	218,416	84,030	168,061

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
749	-20,000	6,000	0,000	0,000	83,789	167,611
753	-17,713	8,000	431,019	951,428	82,795	165,592
757	-16,150	8,000	853,781	1,863	80,326	160,661
758	-16,671	8,000	694,783	1,522	81,297	162,600
759	-17,192	8,000	554,899	1,220	82,118	164,241
769	-17,698	2,000	-6,996	-13,956	78,835	157,734
770	-16,077	2,000	-11,974	-23,886	76,275	152,621
771	-16,617	2,000	-10,307	-20,560	77,288	154,644
772	-17,157	2,000	-8,648	-17,251	78,139	156,345
795	-17,665	4,000	-4,712	-9,356	81,101	162,262
796	-16,095	4,000	-7,937	-15,759	78,612	157,292
797	-16,619	4,000	-6,853	-13,607	79,591	159,246
798	-17,142	4,000	-5,779	-11,474	80,419	160,900
837	-15,628	8,000	1,035	2,249	79,202	158,414
841	-14,203	8,000	1,675	3,598	75,293	150,606
842	-14,678	8,000	1,435	3,094	76,737	153,491
843	-15,153	8,000	1,223	2,647	78,038	156,089
847	-13,727	8,000	1,945	4,164	73,699	147,423
851	-12,428	8,000	2,873	6,099	68,512	137,062
852	-12,861	8,000	2,530	5,385	70,383	140,799
853	-13,294	8,000	2,222	4,742	72,110	144,247
991	-3,529	-20,000	0,000	0,000	0,000	0,000
995	-2,941	-20,000	0,000	0,000	0,000	0,000
996	-2,353	-20,000	0,000	0,000	0,000	0,000
997	-1,765	-20,000	0,000	0,000	0,000	0,000
1119	-15,536	2,000	-13,651	-27,232	75,094	150,262
1123	-14,014	2,000	-18,449	-36,807	70,792	141,665
1124	-14,521	2,000	-16,835	-33,587	72,395	144,868
1125	-15,029	2,000	-15,237	-30,397	73,826	147,728
1129	-15,572	4,000	-9,033	-17,935	77,477	155,025
1130	-15,103	4,000	-10,028	-19,910	76,321	152,718

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1131	-14,634	4,000	-11,038	-21,915	75,028	150,137
1132	-14,165	4,000	-12,066	-23,956	73,592	147,270
1161	-13,696	4,000	-13,116	-26,040	72,006	144,103
1162	-12,435	4,000	-16,078	-31,925	66,926	133,960
1163	-12,855	4,000	-15,064	-29,910	68,759	137,620
1164	-13,276	4,000	-14,078	-27,950	70,450	140,995
1177	-11,994	8,000	3,256	6,895	66,487	133,019
1178	-10,809	8,000	4,540	9,559	60,085	120,235
1179	-11,204	8,000	4,069	8,583	62,370	124,796
1180	-11,599	8,000	3,642	7,698	64,500	129,051
1255	-1,176	-20,000	0,000	0,000	0,000	0,000
1259	-0,588	-20,000	0,000	0,000	0,000	0,000
1260	0,000	-20,000	0,000	0,000	0,000	0,000
1261	0,588	-20,000	0,000	0,000	0,000	0,000
1373	-13,507	2,000	-20,080	-40,062	69,008	138,100
1377	-12,077	2,000	-24,790	-49,468	62,908	125,907
1378	-12,554	2,000	-23,198	-46,289	65,129	130,347
1379	-13,030	2,000	-21,629	-43,155	67,159	134,404
1389	-12,015	4,000	-17,126	-34,007	64,943	129,999
1393	-11,638	4,000	-18,096	-35,937	63,029	126,178
1394	-11,261	4,000	-19,102	-37,937	60,979	122,083
1395	-10,884	4,000	-20,147	-40,017	58,784	117,697
1409	-10,414	8,000	5,060	10,637	57,637	115,345
1413	-9,334	8,000	6,779	14,200	49,987	100,070
1414	-9,694	8,000	6,153	12,902	52,704	105,496
1415	-10,054	8,000	5,581	11,718	55,250	110,578
1605	1,176	-20,000	0,000	0,000	0,000	0,000
1609	1,765	-20,000	0,000	0,000	0,000	0,000
1610	2,353	-20,000	0,000	0,000	0,000	0,000
1611	2,941	-20,000	0,000	0,000	0,000	0,000
1695	-11,601	2,000	-26,407	-52,699	60,483	121,057

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1696	-10,259	2,000	-31,121	-62,120	52,425	104,941
1697	-10,706	2,000	-29,522	-58,922	55,326	110,745
1698	-11,154	2,000	-27,951	-55,783	58,007	116,107
1711	-8,974	8,000	7,464	15,623	47,084	94,274
1712	-7,989	8,000	9,692	20,265	38,053	76,236
1713	-8,317	8,000	8,888	18,586	41,258	82,636
1714	-8,645	8,000	8,147	17,042	44,263	88,638
1727	-10,508	4,000	-21,236	-42,187	56,433	113,001
1731	-9,494	4,000	-24,436	-48,567	49,256	98,656
1732	-9,832	4,000	-23,321	-46,342	51,797	103,735
1733	-10,170	4,000	-22,256	-44,218	54,186	108,511
1769	3,529	-20,000	0,000	0,000	0,000	0,000
1773	4,118	-20,000	0,000	0,000	0,000	0,000
1774	4,706	-20,000	0,000	0,000	0,000	0,000
1775	5,294	-20,000	0,000	0,000	0,000	0,000
1823	-7,660	8,000	10,562	22,090	34,630	69,398
1827	-6,762	8,000	13,444	28,058	24,046	48,176
1828	-7,062	8,000	12,295	25,798	27,813	55,721
1829	-7,361	8,000	11,369	23,844	31,311	62,758
1943	-9,812	2,000	-32,752	-65,381	49,288	98,664
1947	-8,552	2,000	-37,526	-74,932	39,028	78,131
1948	-8,972	2,000	-35,904	-71,687	42,698	85,477
1949	-9,392	2,000	-34,313	-68,504	46,112	92,310
1953	-9,157	4,000	-25,607	-50,905	46,552	93,250
1954	-8,854	4,000	-26,709	-53,106	43,981	88,107
1955	-8,551	4,000	-27,866	-55,417	41,260	82,662
1956	-8,248	4,000	-29,081	-57,847	38,377	76,894
1963	-7,946	4,000	-30,362	-60,408	35,323	70,779
1967	-7,132	4,000	-34,166	-68,022	26,146	52,398
1968	-7,403	4,000	-32,835	-65,358	29,372	58,862
1969	-7,674	4,000	-31,568	-62,822	32,427	64,982

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
2175	5,882	-20,000	0,000	0,000	0,000	0,000
2176	6,471	-20,000	0,000	0,000	0,000	0,000
2177	7,059	-20,000	0,000	0,000	0,000	0,000
2178	7,647	-20,000	0,000	0,000	0,000	0,000
2185	-6,463	8,000	14,453	30,272	19,940	40,029
2189	-5,644	8,000	18,187	37,833	7,551	15,021
2190	-5,917	8,000	16,668	34,946	12,045	24,001
2191	-6,190	8,000	15,355	32,360	16,131	32,285
2229	-6,860	4,000	-35,565	-70,824	22,735	45,564
2230	-6,617	4,000	-36,881	-73,459	19,510	39,100
2231	-6,374	4,000	-38,258	-76,216	16,114	32,294
2232	-6,131	4,000	-39,699	-79,102	12,537	25,122
2239	-5,371	8,000	19,347	40,458	2,728	5,393
2243	-4,625	8,000	24,500	50,106	-11,950	-24,305
2244	-4,873	8,000	22,511	46,556	-6,584	-13,608
2245	-5,122	8,000	20,559	43,098	-1,738	-3,759
2261	-5,888	4,000	-41,207	-82,120	8,764	17,558
2262	-5,234	4,000	-45,604	-90,923	-2,464	-4,951
2263	-5,452	4,000	-44,081	-87,875	1,466	2,927
2264	-5,670	4,000	-42,616	-84,941	5,204	10,422
2305	-5,016	4,000	-47,184	-94,085	-6,597	-13,236
2309	-4,820	4,000	-48,648	-97,016	-10,485	-21,030
2310	-4,625	4,000	-50,158	-100,038	-14,557	-29,192
2311	-4,429	4,000	-51,712	-103,148	-18,824	-37,744
2439	-8,132	2,000	-39,178	-78,239	35,084	70,236
2440	-7,737	2,000	-40,757	-81,398	31,115	62,288
2441	-7,343	2,000	-42,358	-84,603	26,870	53,787
2442	-6,949	2,000	-43,979	-87,848	22,330	44,695
2475	8,235	-20,000	0,000	0,000	0,000	0,000
2479	8,824	-20,000	0,000	0,000	0,000	0,000
2480	9,412	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
2481	10,000	-20,000	0,000	0,000	0,000	0,000
2565	-6,554	2,000	-45,615	-91,123	17,477	34,976
2569	-5,444	2,000	-50,226	-100,348	1,958	3,895
2570	-5,814	2,000	-48,698	-97,292	7,451	14,895
2571	-6,184	2,000	-47,158	-94,210	12,618	25,245
2613	-4,376	8,000	25,818	53,010	-17,879	-35,923
2617	-3,695	8,000	31,282	64,172	-35,447	-71,228
2618	-3,922	8,000	29,429	60,310	-29,158	-58,582
2619	-4,149	8,000	27,585	56,544	-23,201	-46,710
2717	-3,468	8,000	33,465	68,407	-42,172	-84,768
2721	-2,848	8,000	39,206	80,605	-63,322	-127,190
2722	-3,055	8,000	37,245	76,344	-55,910	-112,198
2723	-3,261	8,000	35,470	72,384	-48,856	-98,070
2743	-4,234	4,000	-53,308	-106,342	-23,296	-46,707
2747	-3,709	4,000	-57,788	-115,303	-36,432	-73,028
2748	-3,884	4,000	-56,267	-112,262	-31,864	-63,877
2749	-4,059	4,000	-54,773	-109,273	-27,489	-55,109
2797	-3,534	4,000	-59,331	-118,390	-41,199	-82,579
2801	-3,377	4,000	-60,730	-121,187	-45,650	-91,495
2802	-3,220	4,000	-62,139	-124,004	-50,276	-100,760
2803	-3,063	4,000	-63,554	-126,833	-55,082	-110,386
2897	-5,073	2,000	-51,726	-103,348	-3,874	-7,785
2898	-4,726	2,000	-53,093	-106,084	-9,671	-19,394
2899	-4,378	2,000	-54,404	-108,705	-15,788	-31,642
2900	-4,030	2,000	-55,636	-111,167	-22,231	-44,542
2997	10,588	-20,000	0,000	0,000	0,000	0,000
3001	11,176	-20,000	0,000	0,000	0,000	0,000
3002	11,765	-20,000	0,000	0,000	0,000	0,000
3003	12,353	-20,000	0,000	0,000	0,000	0,000
3055	-2,906	4,000	-64,970	-129,662	-60,075	-120,385
3056	-2,765	4,000	-66,235	-132,189	-64,715	-129,674

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3057	-2,624	4,000	-67,490	-134,696	-69,513	-139,280
3058	-2,483	4,000	-68,730	-137,173	-74,473	-149,209
3065	-2,343	4,000	-69,949	-139,606	-79,599	-159,469
3066	-2,217	4,000	-71,018	-141,740	-84,337	-168,949
3067	-2,091	4,000	-72,059	-143,817	-89,211	-178,702
3068	-1,964	4,000	-73,066	-145,826	-94,223	-188,728
3075	0,000	-3,924	-39,517	-79,063	-63,842	-127,802
3076	0,000	-3,849	-39,690	-79,409	-64,413	-128,944
3077	0,000	-3,773	-39,864	-79,756	-64,987	-130,092
3081	0,000	-3,698	-40,039	-80,105	-65,564	-131,246
3082	0,000	-3,608	-40,248	-80,522	-66,254	-132,627
3083	0,000	-3,518	-40,458	-80,941	-66,948	-134,015
3084	0,000	-3,428	-40,669	-81,362	-67,646	-135,413
3107	0,000	-4,000	-39,344	-78,719	-63,275	-126,666
3149	0,000	-3,232	-41,135	-82,293	-69,190	-138,500
3150	0,000	-3,125	-41,391	-82,803	-70,037	-140,194
3151	0,000	-3,018	-41,648	-83,315	-70,889	-141,900
3155	0,000	-3,338	-40,881	-81,786	-68,349	-136,818
3171	0,000	-2,911	-41,906	-83,831	-71,747	-143,616
3172	0,000	-2,784	-42,216	-84,449	-72,775	-145,673
3173	0,000	-2,657	-42,527	-85,070	-73,811	-147,746
3174	0,000	-2,530	-42,841	-85,695	-74,855	-149,834
3213	12,941	-20,000	0,000	0,000	0,000	0,000
3217	13,529	-20,000	0,000	0,000	0,000	0,000
3218	14,118	-20,000	0,000	0,000	0,000	0,000
3219	14,706	-20,000	0,000	0,000	0,000	0,000
3261	-3,683	2,000	-56,764	-113,421	-29,002	-58,098
3262	-2,703	2,000	-59,111	-118,105	-49,792	-99,706
3263	-3,030	2,000	-58,495	-116,876	-42,591	-85,297
3264	-3,356	2,000	-57,703	-115,294	-35,657	-71,418
3277	-2,641	8,000	41,777	85,376	-71,298	-143,397

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3281	-2,075	8,000	48,919	99,394	-96,500	-193,819
3282	-2,264	8,000	46,658	94,658	-87,557	-175,869
3283	-2,452	8,000	44,392	90,064	-79,096	-159,014
3309	-1,887	8,000	51,653	104,587	-106,007	-212,983
3313	-1,371	8,000	58,841	119,429	-135,912	-272,955
3314	-1,543	8,000	56,392	114,279	-125,367	-251,681
3315	-1,715	8,000	54,137	109,410	-115,402	-231,736
3325	-1,838	4,000	-74,033	-147,754	-99,372	-199,029
3326	-1,499	4,000	-76,378	-152,430	-113,898	-228,077
3327	-1,612	4,000	-75,643	-150,965	-108,947	-218,178
3328	-1,725	4,000	-74,859	-149,403	-104,105	-208,494
3341	-1,386	4,000	-77,059	-153,785	-118,956	-238,189
3345	-1,285	4,000	-77,617	-154,898	-123,578	-247,429
3346	-1,183	4,000	-78,122	-155,903	-128,282	-256,830
3347	-1,082	4,000	-78,570	-156,793	-133,064	-266,388
3357	15,294	-20,000	0,000	0,000	0,000	0,000
3361	15,882	-20,000	0,000	0,000	0,000	0,000
3362	16,471	-20,000	0,000	0,000	0,000	0,000
3363	17,059	-20,000	0,000	0,000	0,000	0,000
3373	17,647	-20,000	0,000	0,000	0,000	0,000
3377	18,235	-20,000	0,000	0,000	0,000	0,000
3378	18,824	-20,000	0,000	0,000	0,000	0,000
3379	19,412	-20,000	0,000	0,000	0,000	0,000
3380	20,000	-20,000	0,000	0,000	0,000	0,000
3381	20,000	-19,389	0,000	0,000	-21,487	-42,499
3382	20,000	-18,778	0,000	0,000	133,484	268,701
3383	20,000	-18,167	0,000	0,000	441,676	887,029
3605	0,000	-2,252	-43,534	-87,077	-77,168	-154,459
3606	0,000	-2,101	-43,914	-87,834	-78,439	-157,001
3607	0,000	-1,950	-44,296	-88,595	-79,720	-159,563
3611	0,000	-2,403	-43,156	-86,324	-75,907	-151,937

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3627	0,000	-1,799	-44,680	-89,360	-81,011	-162,145
3628	0,000	-1,619	-45,138	-90,274	-82,558	-165,240
3629	0,000	-1,439	-45,599	-91,190	-84,118	-168,361
3630	0,000	-1,260	-46,060	-92,109	-85,690	-171,505
3643	-2,377	2,000	-59,517	-118,911	-57,239	-114,605
3647	-2,071	2,000	-59,672	-119,218	-64,428	-128,986
3648	-1,764	2,000	-59,576	-119,022	-71,774	-143,679
3649	-1,458	2,000	-59,196	-118,258	-79,237	-158,605
3679	-1,199	8,000	61,791	124,892	-147,294	-296,002
3683	-0,728	8,000	71,292	141,647	-182,937	-367,536
3684	-0,885	8,000	68,067	135,924	-170,066	-341,852
3685	-1,042	8,000	64,960	130,329	-158,158	-317,991
3771	-0,981	4,000	-78,954	-157,558	-137,921	-276,095
3775	-0,708	4,000	-79,636	-158,912	-151,324	-302,876
3776	-0,799	4,000	-79,470	-158,581	-146,805	-293,846
3777	-0,890	4,000	-79,241	-158,128	-142,336	-284,917
3841	-0,618	4,000	-79,737	-159,111	-155,890	-311,997
3845	-0,536	4,000	-79,769	-159,172	-160,018	-320,245
3846	-0,455	4,000	-79,743	-159,116	-164,177	-328,552
3847	-0,373	4,000	-79,655	-158,939	-168,362	-336,912
3851	20,000	-17,556	0,000	0,000	884,732	1,776
3855	20,000	-16,944	0,000	0,000	1,447	2,904
3856	20,000	-16,333	0,000	0,000	2,117	4,247
3857	20,000	-15,722	0,000	0,000	2,887	5,790
3931	0,000	-0,866	-47,068	-94,116	-89,169	-178,461
3932	0,000	-0,652	-47,612	-95,199	-91,077	-182,275
3933	0,000	-0,439	-48,151	-96,270	-92,994	-186,110
3937	0,000	-1,080	-46,521	-93,027	-87,273	-174,670
4133	-0,572	8,000	74,807	147,434	-197,033	-395,311
4137	-0,143	8,000	82,149	163,110	-241,103	-482,664
4138	-0,286	8,000	80,029	158,139	-225,402	-451,342

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4139	-0,429	8,000	77,714	153,014	-210,671	-422,187
4149	-1,151	2,000	-58,498	-116,860	-86,767	-173,661
4150	-0,288	2,000	-54,570	-109,002	-107,774	-215,659
4151	-0,576	2,000	-56,224	-112,308	-100,867	-201,852
4152	-0,863	2,000	-57,527	-114,914	-93,843	-187,809
4159	20,000	-15,111	0,000	0,000	3,750	7,521
4163	20,000	-14,500	0,000	0,000	4,703	9,432
4164	20,000	-13,889	0,000	0,000	5,744	11,519
4165	20,000	-13,278	0,000	0,000	6,872	13,783
4169	0,000	4,390	-79,851	-159,286	-201,484	-403,112
4170	0,000	4,474	-79,980	-159,537	-204,345	-408,837
4171	0,000	4,557	-80,039	-159,646	-207,173	-414,497
4175	0,000	4,307	-79,655	-158,902	-198,593	-397,327
4179	0,000	4,077	-78,789	-157,195	-190,505	-381,146
4180	0,000	4,153	-79,129	-157,866	-193,221	-386,579
4181	0,000	4,230	-79,418	-158,436	-195,918	-391,975
4201	-0,292	4,000	-79,504	-158,635	-172,570	-345,317
4205	-0,073	4,000	-78,762	-157,150	-183,962	-368,068
4206	-0,146	4,000	-79,066	-157,757	-180,156	-360,467
4207	-0,219	4,000	-79,312	-158,251	-176,357	-352,881
4211	0,000	3,786	-77,067	-153,784	-180,049	-360,226
4212	0,000	3,857	-77,551	-154,744	-182,635	-365,399
4213	0,000	3,929	-77,996	-155,626	-185,210	-370,551
4214	0,000	4,000	-78,401	-156,427	-187,772	-375,677
4317	0,000	0,029	-49,298	-98,549	-97,215	-194,548
4318	0,000	0,283	-49,893	-99,729	-99,511	-199,140
4319	0,000	0,537	-50,457	-100,848	-101,803	-203,722
4323	0,000	-0,225	-48,682	-97,325	-94,919	-189,959
4345	0,000	4,732	-79,919	-159,391	-212,967	-426,093
4346	0,000	4,823	-79,717	-158,979	-215,919	-432,001
4347	0,000	4,914	-79,411	-158,360	-218,818	-437,802

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4351	0,000	4,641	-80,024	-159,609	-209,966	-420,086
4361	0,000	5,005	-78,995	-157,522	-221,658	-443,487
4362	0,000	5,105	-78,407	-156,341	-224,684	-449,544
4363	0,000	5,204	-77,671	-154,863	-227,629	-455,439
4364	0,000	5,304	-76,774	-153,065	-230,486	-461,160
4371	0,000	6,438	-50,202	-100,021	-254,567	-509,382
4372	0,000	6,567	-44,462	-88,583	-256,012	-512,275
4373	0,000	6,696	-37,939	-75,590	-257,141	-514,531
4377	0,000	6,825	-30,553	-60,884	-257,951	-516,145
4378	0,000	6,965	-21,408	-42,685	-258,466	-517,161
4379	0,000	7,106	-10,993	-21,974	-258,631	-517,468
4380	0,000	7,246	795,882	1,446	-258,522	-517,220
4387	0,000	5,511	-74,326	-148,165	-236,149	-472,497
4388	0,000	5,620	-72,708	-144,929	-238,917	-478,041
4389	0,000	5,728	-70,829	-141,174	-241,546	-483,305
4393	0,000	5,403	-75,704	-150,923	-233,250	-466,693
4403	0,000	5,955	-65,955	-131,440	-246,544	-493,315
4404	0,000	6,073	-62,839	-125,221	-248,858	-497,950
4405	0,000	6,191	-59,279	-118,119	-250,953	-502,145
4409	0,000	6,309	-55,232	-110,049	-252,815	-505,875
4419	0,000	5,836	-68,667	-136,855	-244,025	-488,270
4429	0,000	1,093	-51,543	-102,996	-106,769	-213,649
4430	0,000	1,396	-52,011	-103,917	-109,411	-218,931
4431	0,000	1,698	-52,358	-104,595	-111,993	-224,091
4435	0,000	0,791	-50,983	-101,890	-104,084	-208,281
4445	0,000	2,000	-52,550	-104,963	-114,494	-229,090
4446	0,000	2,286	-58,220	-116,267	-124,875	-249,855
4447	0,000	2,571	-63,141	-126,075	-135,349	-270,806
4448	0,000	2,857	-67,393	-134,544	-145,886	-291,884
4449	0,863	2,000	-44,234	-88,349	-132,738	-265,555
4450	0,576	2,000	-47,380	-94,632	-127,057	-254,201

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4451	0,288	2,000	-50,153	-100,174	-120,948	-241,990
4497	0,000	8,000	85,049	168,805	-258,089	-516,670
4498	0,000	7,540	29,806	59,010	-257,782	-515,652
4499	0,000	7,693	47,327	93,789	-257,578	-515,227
4500	0,000	7,847	65,933	130,768	-257,964	-516,011
4501	0,750	8,000	103,011	203,984	-382,114	-764,568
4502	0,500	8,000	95,293	189,175	-331,124	-662,609
4503	0,250	8,000	89,273	177,418	-291,750	-583,820
4507	0,000	7,387	14,004	27,660	-258,266	-516,677
4601	0,000	3,286	-72,627	-144,961	-161,725	-323,567
4602	0,000	3,429	-74,079	-147,849	-166,990	-334,099
4603	0,000	3,571	-75,386	-150,445	-172,235	-344,593
4607	0,000	3,143	-71,029	-141,783	-156,448	-313,012
4617	0,000	3,714	-76,544	-152,746	-177,453	-355,032
4659	20,000	-12,667	0,000	0,000	8,090	16,224
4663	20,000	-12,056	0,000	0,000	9,399	18,849
4664	20,000	-11,444	0,000	0,000	10,802	21,662
4665	20,000	-10,833	0,000	0,000	12,302	24,670
4865	20,000	-10,222	0,000	0,000	13,904	27,881
4869	20,000	-9,611	0,000	0,000	15,609	31,301
4870	20,000	-9,000	0,000	0,000	17,422	34,935
4871	20,000	-8,389	0,000	0,000	19,344	38,789
4875	1,000	8,000	101,329	201,430	-465,575	-930,825
4879	2,500	8,000	17,207	34,832	-680,579	-1,361
4880	2,000	8,000	47,263	94,589	-649,740	-1,299
4881	1,500	8,000	75,720	151,024	-588,479	-1,177
4901	1,151	2,000	-40,732	-81,353	-137,910	-275,892
4902	2,071	2,000	-27,487	-54,902	-150,133	-300,331
4903	1,764	2,000	-32,204	-64,322	-146,868	-293,801
4904	1,458	2,000	-36,637	-73,174	-142,768	-285,603
4921	2,377	2,000	-22,544	-45,032	-152,498	-305,063



Node No.	x-coord.	y-coord.	dUx [10⁻⁶ m]	Ux [10⁻⁶ m]	dUy [10⁻⁶ m]	Uy [10⁻³ m]
4925	3,356	2,000	-6,076	-12,147	-153,570	-307,240
4926	3,030	2,000	-11,591	-23,159	-154,332	-308,748
4927	2,703	2,000	-17,111	-34,182	-153,971	-308,016
5107	3,000	8,000	-10,215	-19,648	-690,646	-1,381
5111	4,500	8,000	-97,443	-192,555	-586,687	-1,173
5112	4,000	8,000	-69,433	-137,252	-649,110	-1,298
5113	3,500	8,000	-38,887	-76,619	-680,974	-1,362
5133	20,000	-7,778	0,000	0,000	21,377	42,865
5137	20,000	-7,167	0,000	0,000	23,520	47,163
5138	20,000	-6,556	0,000	0,000	25,772	51,678
5139	20,000	-5,944	0,000	0,000	28,130	56,405
5195	4,726	2,000	15,005	29,965	-138,937	-278,069
5196	4,378	2,000	10,150	20,263	-144,254	-288,676
5197	4,030	2,000	4,900	9,775	-148,545	-297,230
5201	3,683	2,000	-661,269	-1,332	-151,703	-303,524
5221	5,073	2,000	19,400	38,749	-132,719	-265,660
5222	6,184	2,000	29,932	59,818	-108,442	-217,186
5223	5,814	2,000	27,037	54,023	-117,107	-234,494
5224	5,444	2,000	23,523	46,992	-125,258	-250,768
5317	6,554	2,000	32,218	64,399	-99,428	-199,177
5318	7,737	2,000	35,884	71,773	-70,009	-140,348
5319	7,343	2,000	35,220	70,430	-79,773	-159,881
5320	6,949	2,000	34,019	68,014	-89,626	-179,583
5327	20,000	-5,333	0,000	0,000	30,585	61,328
5331	20,000	-4,722	0,000	0,000	33,130	66,431
5332	20,000	-4,111	0,000	0,000	35,751	71,685
5333	20,000	-3,500	0,000	0,000	38,432	77,059
5337	5,000	8,000	-120,241	-236,876	-459,862	-919,509
5341	6,875	8,000	-86,876	-174,242	-169,168	-341,011
5342	6,250	8,000	-104,728	-205,328	-226,191	-454,716
5343	5,625	8,000	-116,442	-226,837	-310,312	-622,191

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5363	8,132	2,000	36,080	72,179	-60,449	-121,215
5367	9,392	2,000	34,369	68,792	-32,151	-64,527
5368	8,972	2,000	35,258	70,562	-41,142	-82,546
5369	8,552	2,000	35,853	71,741	-50,592	-101,477
5527	7,500	8,000	-75,946	-153,366	-127,972	-256,945
5528	9,375	8,000	-49,303	-103,155	-43,776	-88,526
5529	8,750	8,000	-58,172	-119,034	-65,010	-131,876
5530	8,125	8,000	-68,259	-137,049	-92,294	-186,536
5537	20,000	-2,889	0,000	0,000	41,153	82,513
5541	20,000	-2,278	0,000	0,000	43,889	87,996
5542	20,000	-1,667	0,000	0,000	46,611	93,451
5543	20,000	-1,056	0,000	0,000	49,286	98,811
5621	9,812	2,000	33,254	66,568	-23,653	-47,489
5622	11,154	2,000	28,782	57,616	127,784	214,117
5623	10,706	2,000	30,376	60,810	-7,231	-14,551
5624	10,259	2,000	31,883	63,825	-15,155	-30,446
5641	11,601	2,000	27,138	54,318	6,940	13,882
5645	13,030	2,000	21,824	43,656	25,307	50,731
5646	12,554	2,000	23,585	47,189	19,730	39,544
5647	12,077	2,000	25,362	50,755	13,618	27,282
5657	10,000	8,000	-44,358	-92,056	-26,637	-53,225
5661	11,875	8,000	-31,304	-64,454	11,276	22,852
5662	11,250	8,000	-35,156	-72,573	911,971	1,936
5663	10,625	8,000	-39,921	-82,162	-11,591	-23,123
5693	20,000	-0,444	0,000	0,000	51,877	104,001
5697	20,000	0,167	0,000	0,000	54,344	108,941
5698	20,000	0,778	0,000	0,000	56,642	113,539
5699	20,000	1,389	0,000	0,000	58,725	117,703
5735	15,029	2,000	14,826	29,624	43,517	87,239
5736	14,521	2,000	16,534	33,046	39,625	79,441
5737	14,014	2,000	18,290	36,567	35,256	70,682

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5741	13,507	2,000	20,093	40,183	30,377	60,900
5751	15,536	2,000	13,165	26,299	46,956	94,130
5755	17,157	2,000	8,144	16,257	55,173	110,586
5756	16,617	2,000	9,774	19,515	52,881	105,997
5757	16,077	2,000	11,446	22,859	50,149	100,526
5787	12,500	8,000	-27,991	-57,348	20,227	40,744
5788	14,375	8,000	-19,246	-39,277	39,895	80,025
5789	13,750	8,000	-21,922	-44,782	34,340	68,937
5790	13,125	8,000	-24,821	-50,770	27,835	55,949
5797	20,000	2,000	0,000	0,000	60,547	121,342
5798	19,424	2,000	1,616	3,225	60,331	120,909
5799	18,849	2,000	3,241	6,467	59,679	119,604
5800	18,273	2,000	4,883	9,744	58,586	117,417
5801	20,000	2,500	0,000	0,000	60,931	122,124
5802	20,000	3,000	0,000	0,000	61,313	122,895
5803	20,000	3,500	0,000	0,000	61,672	123,619
5813	17,698	2,000	6,549	13,072	57,043	114,328
5833	15,000	8,000	-16,753	-34,163	44,628	89,473
5841	20,000	4,000	0,000	0,000	61,989	124,252
5846	17,500	8,000	-7,950	-16,183	56,976	114,115
5847	16,875	8,000	-10,027	-20,417	54,761	109,696
5848	16,250	8,000	-12,171	-24,792	51,997	104,178
5849	15,625	8,000	-14,405	-29,356	48,638	97,475
5862	20,000	4,500	0,000	0,000	62,240	124,750
5866	20,000	5,000	0,000	0,000	62,404	125,070
5867	20,000	5,500	0,000	0,000	62,464	125,176
5871	20,000	6,000	0,000	0,000	62,404	125,041
5878	20,000	8,000	0,000	0,000	60,811	121,769
5882	20,000	7,000	0,000	0,000	61,885	123,962
5883	20,000	7,500	0,000	0,000	61,416	123,003
5884	19,375	8,000	-1,960	-3,988	60,575	121,297

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISORIALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5885	18,125	8,000	-5,923	-12,054	58,669	117,493
5886	20,000	6,500	0,000	0,000	62,213	124,641

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

10. Results for phase 5

Table [14] Table of deformations phase no: 5

Node No.	x-coord.	y-coord.	dUx [10⁻⁶ m]	Ux [10⁻⁶ m]	dUy [10⁻⁶ m]	Uy [10⁻⁶ m]
1	-20,000	-18,333	0,000	0,000	527,112	1,054
2	-20,000	-18,889	0,000	0,000	227,921	455,899
3	-20,000	-19,444	0,000	0,000	47,901	95,823
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	2,694	5,388
18	-20,000	-16,667	0,000	0,000	2,026	4,053
19	-20,000	-17,222	0,000	0,000	1,437	2,874
26	-20,000	-17,778	0,000	0,000	933,601	1,867
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
43	-15,294	-20,000	0,000	0,000	0,000	0,000
47	-14,706	-20,000	0,000	0,000	0,000	0,000
48	-14,118	-20,000	0,000	0,000	0,000	0,000
49	-13,529	-20,000	0,000	0,000	0,000	0,000
103	-20,000	-15,556	0,000	0,000	3,430	6,861
107	-20,000	-13,889	0,000	0,000	5,983	11,968
108	-20,000	-14,444	0,000	0,000	5,082	10,165
109	-20,000	-15,000	0,000	0,000	4,229	8,458
129	-20,000	-13,333	0,000	0,000	6,927	13,855
133	-20,000	-11,667	0,000	0,000	9,954	19,909
134	-20,000	-12,222	0,000	0,000	8,917	17,836

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISORIALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
135	-20,000	-12,778	0,000	0,000	7,907	15,815
151	-12,941	-20,000	0,000	0,000	0,000	0,000
155	-12,353	-20,000	0,000	0,000	0,000	0,000
156	-11,765	-20,000	0,000	0,000	0,000	0,000
157	-11,176	-20,000	0,000	0,000	0,000	0,000
183	-10,588	-20,000	0,000	0,000	0,000	0,000
187	-10,000	-20,000	0,000	0,000	0,000	0,000
188	-9,412	-20,000	0,000	0,000	0,000	0,000
189	-8,824	-20,000	0,000	0,000	0,000	0,000
289	-20,000	-11,111	0,000	0,000	11,011	22,023
290	-20,000	-9,444	0,000	0,000	14,253	28,508
291	-20,000	-10,000	0,000	0,000	13,165	26,333
292	-20,000	-10,556	0,000	0,000	12,083	24,167
337	-20,000	-8,889	0,000	0,000	15,341	30,685
341	-20,000	-7,222	0,000	0,000	18,555	37,113
342	-20,000	-7,778	0,000	0,000	17,497	34,998
343	-20,000	-8,333	0,000	0,000	16,424	32,851
375	-8,235	-20,000	0,000	0,000	0,000	0,000
379	-7,647	-20,000	0,000	0,000	0,000	0,000
380	-7,059	-20,000	0,000	0,000	0,000	0,000
381	-6,471	-20,000	0,000	0,000	0,000	0,000
407	-20,000	-6,667	0,000	0,000	19,592	39,188
411	-20,000	-5,000	0,000	0,000	22,525	45,054
412	-20,000	-5,556	0,000	0,000	21,583	43,169
413	-20,000	-6,111	0,000	0,000	20,603	41,210
423	-20,000	-4,444	0,000	0,000	23,425	46,854
427	-20,000	-2,778	0,000	0,000	25,817	51,638
428	-20,000	-3,333	0,000	0,000	25,076	50,157
429	-20,000	-3,889	0,000	0,000	24,277	48,558
436	-20,000	-2,222	0,000	0,000	26,495	52,993
437	-20,000	-0,556	0,000	0,000	28,101	56,205

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
438	-20,000	-1,111	0,000	0,000	27,641	55,285
439	-20,000	-1,667	0,000	0,000	27,104	54,212
507	-5,882	-20,000	0,000	0,000	0,000	0,000
511	-5,294	-20,000	0,000	0,000	0,000	0,000
512	-4,706	-20,000	0,000	0,000	0,000	0,000
513	-4,118	-20,000	0,000	0,000	0,000	0,000
679	-20,000	1,500	0,000	0,000	29,078	58,158
680	-20,000	1,000	0,000	0,000	28,950	57,903
681	-20,000	0,500	0,000	0,000	28,750	57,504
685	-20,000	0,000	0,000	0,000	28,480	56,964
689	-18,273	2,000	-58,917	-116,383	28,651	57,304
690	-18,849	2,000	-40,812	-80,643	28,919	57,841
691	-19,424	2,000	-20,869	-41,243	29,079	58,161
695	-20,000	2,000	0,000	0,000	29,132	58,268
699	-20,000	3,500	0,000	0,000	29,002	58,008
700	-20,000	3,000	0,000	0,000	29,076	58,154
701	-20,000	2,500	0,000	0,000	29,119	58,240
711	-20,000	4,000	0,000	0,000	28,897	57,797
712	-18,249	4,000	996,936	1,998	28,375	56,753
713	-18,833	4,000	665,225	1,333	28,666	57,335
714	-19,416	4,000	332,783	666,806	28,839	57,682
715	-20,000	5,500	0,000	0,000	28,377	56,756
716	-20,000	5,000	0,000	0,000	28,586	57,174
717	-20,000	4,500	0,000	0,000	28,759	57,520
739	-20,000	8,000	0,000	0,000	26,768	53,535
740	-20,000	7,500	0,000	0,000	27,166	54,332
741	-20,000	7,000	0,000	0,000	27,526	55,053
742	-20,000	6,500	0,000	0,000	27,848	55,697
743	-18,285	8,000	3,341	6,688	26,258	52,516
744	-18,857	8,000	2,226	4,455	26,542	53,083
745	-19,428	8,000	1,112	2,226	26,711	53,422

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
749	-20,000	6,000	0,000	0,000	28,131	56,265
753	-17,713	8,000	4,460	8,927	25,859	51,717
757	-16,150	8,000	7,541	15,096	24,155	48,310
758	-16,671	8,000	6,510	13,032	24,825	49,650
759	-17,192	8,000	5,483	10,976	25,392	50,784
769	-17,698	2,000	-74,270	-146,645	28,273	56,548
770	-16,077	2,000	-94,276	-185,628	26,595	53,192
771	-16,617	2,000	-92,232	-181,837	27,258	54,518
772	-17,157	2,000	-85,282	-168,284	27,816	55,635
795	-17,665	4,000	1,327	2,660	27,965	55,934
796	-16,095	4,000	2,206	4,420	26,248	52,500
797	-16,619	4,000	1,915	3,838	26,923	53,850
798	-17,142	4,000	1,622	3,251	27,494	54,992
837	-15,628	8,000	8,576	17,168	23,378	46,757
841	-14,203	8,000	11,424	22,871	20,681	41,365
842	-14,678	8,000	10,472	20,965	21,677	43,356
843	-15,153	8,000	9,523	19,064	22,575	45,151
847	-13,727	8,000	12,376	24,779	19,584	39,171
851	-12,428	8,000	14,974	29,986	16,027	32,058
852	-12,861	8,000	14,111	28,256	17,306	34,617
853	-13,294	8,000	13,244	26,519	18,491	36,985
991	-3,529	-20,000	0,000	0,000	0,000	0,000
995	-2,941	-20,000	0,000	0,000	0,000	0,000
996	-2,353	-20,000	0,000	0,000	0,000	0,000
997	-1,765	-20,000	0,000	0,000	0,000	0,000
1119	-15,536	2,000	-90,541	-177,915	25,823	51,650
1123	-14,014	2,000	-41,142	-78,776	23,029	46,060
1124	-14,521	2,000	-64,810	-126,165	24,067	48,136
1125	-15,029	2,000	-81,007	-158,673	24,997	49,996
1129	-15,572	4,000	2,494	4,997	25,465	50,935
1130	-15,103	4,000	2,749	5,507	24,669	49,343

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011



Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
1131	-14,634	4,000	3,000	6,010	23,780	47,565
1132	-14,165	4,000	3,247	6,505	22,793	45,592
1161	-13,696	4,000	3,489	6,989	21,705	43,416
1162	-12,435	4,000	4,107	8,224	18,239	36,483
1163	-12,855	4,000	3,907	7,825	19,486	38,977
1164	-13,276	4,000	3,701	7,413	20,640	41,286
1177	-11,994	8,000	15,832	31,707	14,647	29,300
1178	-10,809	8,000	18,128	36,320	10,332	20,671
1179	-11,204	8,000	17,373	34,803	11,862	23,731
1180	-11,599	8,000	16,607	33,263	13,300	26,605
1255	-1,176	-20,000	0,000	0,000	0,000	0,000
1259	-0,588	-20,000	0,000	0,000	0,000	0,000
1260	0,000	-20,000	0,000	0,000	0,000	0,000
1261	0,588	-20,000	0,000	0,000	0,000	0,000
1373	-13,507	2,000	-9,137	-14,766	21,878	43,757
1377	-12,077	2,000	134,144	271,622	17,977	35,954
1378	-12,554	2,000	76,805	157,011	19,391	38,782
1379	-13,030	2,000	29,337	62,141	20,689	41,379
1389	-12,015	4,000	4,299	8,608	16,895	33,794
1393	-11,638	4,000	4,465	8,938	15,604	31,211
1394	-11,261	4,000	4,622	9,253	14,229	28,458
1395	-10,884	4,000	4,771	9,550	12,764	25,527
1409	-10,414	8,000	18,866	37,809	8,705	17,417
1413	-9,334	8,000	20,755	41,655	3,726	7,459
1414	-9,694	8,000	20,158	40,424	5,473	10,954
1415	-10,054	8,000	19,523	39,135	7,133	14,273
1605	1,176	-20,000	0,000	0,000	0,000	0,000
1609	1,765	-20,000	0,000	0,000	0,000	0,000
1610	2,353	-20,000	0,000	0,000	0,000	0,000
1611	2,941	-20,000	0,000	0,000	0,000	0,000
1695	-11,601	2,000	202,288	407,874	16,442	32,883

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
1696	-10,259	2,000	461,043	925,794	11,410	22,815
1697	-10,706	2,000	362,913	729,279	13,210	26,416
1698	-11,154	2,000	276,961	557,247	14,885	29,768
1711	-8,974	8,000	21,283	42,793	1,884	3,774
1712	-7,989	8,000	23,148	46,166	-3,526	-7,179
1713	-8,317	8,000	22,431	44,973	-1,544	-3,263
1714	-8,645	8,000	21,733	43,773	234,508	360,881
1727	-10,508	4,000	4,911	9,828	11,207	22,411
1731	-9,494	4,000	5,228	10,462	6,528	13,044
1732	-9,832	4,000	5,132	10,271	8,171	16,332
1733	-10,170	4,000	5,026	10,059	9,730	19,453
1769	3,529	-20,000	0,000	0,000	0,000	0,000
1773	4,118	-20,000	0,000	0,000	0,000	0,000
1774	4,706	-20,000	0,000	0,000	0,000	0,000
1775	5,294	-20,000	0,000	0,000	0,000	0,000
1823	-7,660	8,000	23,521	46,954	-5,637	-11,307
1827	-6,762	8,000	24,848	49,588	-11,560	-23,169
1828	-7,062	8,000	24,363	48,630	-9,419	-18,912
1829	-7,361	8,000	23,769	47,538	-7,458	-14,988
1943	-9,812	2,000	572,286	1,149	9,478	18,951
1947	-8,552	2,000	964,670	1,936	3,269	6,530
1948	-8,972	2,000	820,095	1,646	5,471	10,936
1949	-9,392	2,000	689,556	1,384	7,539	15,072
1953	-9,157	4,000	5,311	10,629	4,797	9,579
1954	-8,854	4,000	5,375	10,758	3,168	6,318
1955	-8,551	4,000	5,428	10,866	1,463	2,906
1956	-8,248	4,000	5,470	10,950	-321,898	-664,857
1963	-7,946	4,000	5,499	11,010	-2,189	-4,399
1967	-7,132	4,000	5,510	11,036	-7,636	-15,290
1968	-7,403	4,000	5,518	11,050	-5,749	-11,518
1969	-7,674	4,000	5,514	11,041	-3,934	-7,889

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
2175	5,882	-20,000	0,000	0,000	0,000	0,000
2176	6,471	-20,000	0,000	0,000	0,000	0,000
2177	7,059	-20,000	0,000	0,000	0,000	0,000
2178	7,647	-20,000	0,000	0,000	0,000	0,000
2185	-6,463	8,000	25,104	50,059	-13,827	-27,679
2189	-5,644	8,000	25,628	51,171	-20,197	-40,397
2190	-5,917	8,000	25,433	50,786	-17,963	-35,937
2191	-6,190	8,000	25,186	50,293	-15,842	-31,701
2229	-6,860	4,000	5,490	10,998	-9,596	-19,210
2230	-6,617	4,000	5,462	10,942	-11,417	-22,850
2231	-6,374	4,000	5,423	10,866	-13,300	-26,614
2232	-6,131	4,000	5,374	10,767	-15,246	-30,502
2239	-5,371	8,000	25,624	51,183	-22,511	-45,017
2243	-4,625	8,000	25,451	50,872	-29,099	-58,191
2244	-4,873	8,000	25,536	51,034	-26,831	-53,653
2245	-5,122	8,000	25,571	51,092	-24,639	-49,271
2261	-5,888	4,000	5,313	10,646	-17,254	-34,517
2262	-5,234	4,000	5,092	10,203	-22,976	-45,954
2263	-5,452	4,000	5,175	10,371	-21,016	-42,037
2264	-5,670	4,000	5,249	10,518	-19,109	-38,225
2305	-5,016	4,000	4,998	10,016	-24,988	-49,976
2309	-4,820	4,000	4,906	9,831	-26,836	-53,670
2310	-4,625	4,000	4,805	9,629	-28,726	-57,449
2311	-4,429	4,000	4,696	9,411	-30,659	-61,313
2439	-8,132	2,000	1,124	2,255	924,376	1,841
2440	-7,737	2,000	1,287	2,583	-1,413	-2,833
2441	-7,343	2,000	1,465	2,938	-3,887	-7,782
2442	-6,949	2,000	1,655	3,320	-6,506	-13,019
2475	8,235	-20,000	0,000	0,000	0,000	0,000
2479	8,824	-20,000	0,000	0,000	0,000	0,000
2480	9,412	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
2481	10,000	-20,000	0,000	0,000	0,000	0,000
2565	-6,554	2,000	1,859	3,729	-9,276	-18,558
2569	-5,444	2,000	2,492	4,995	-17,945	-35,891
2570	-5,814	2,000	2,273	4,558	-14,908	-29,818
2571	-6,184	2,000	2,062	4,134	-12,020	-24,044
2613	-4,376	8,000	25,256	50,488	-31,434	-62,860
2617	-3,695	8,000	24,483	48,957	-38,128	-76,248
2618	-3,922	8,000	24,809	49,606	-35,841	-71,674
2619	-4,149	8,000	25,067	50,116	-33,607	-67,206
2717	-3,468	8,000	24,106	48,208	-40,468	-80,928
2721	-2,848	8,000	22,616	45,236	-47,155	-94,303
2722	-3,055	8,000	23,190	46,381	-44,889	-89,771
2723	-3,261	8,000	23,695	47,389	-42,659	-85,309
2743	-4,234	4,000	4,578	9,176	-32,633	-65,260
2747	-3,709	4,000	4,222	8,462	-38,146	-76,283
2748	-3,884	4,000	4,347	8,713	-36,275	-72,543
2749	-4,059	4,000	4,466	8,951	-34,438	-68,869
2797	-3,534	4,000	4,089	8,198	-40,047	-80,086
2801	-3,377	4,000	3,966	7,950	-41,779	-83,547
2802	-3,220	4,000	3,837	7,693	-43,534	-87,058
2803	-3,063	4,000	3,704	7,426	-45,314	-90,617
2897	-5,073	2,000	2,713	5,439	-21,136	-42,272
2898	-4,726	2,000	2,921	5,855	-24,277	-48,552
2899	-4,378	2,000	3,124	6,260	-27,561	-55,119
2900	-4,030	2,000	3,314	6,641	-30,991	-61,979
2997	10,588	-20,000	0,000	0,000	0,000	0,000
3001	11,176	-20,000	0,000	0,000	0,000	0,000
3002	11,765	-20,000	0,000	0,000	0,000	0,000
3003	12,353	-20,000	0,000	0,000	0,000	0,000
3055	-2,906	4,000	3,566	7,150	-47,117	-94,222
3056	-2,765	4,000	3,438	6,895	-48,752	-97,491

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
3057	-2,624	4,000	3,307	6,633	-50,404	-100,796
3058	-2,483	4,000	3,173	6,364	-52,073	-104,134
3065	-2,343	4,000	3,035	6,089	-53,759	-107,505
3066	-2,217	4,000	2,909	5,837	-55,283	-110,554
3067	-2,091	4,000	2,780	5,580	-56,820	-113,627
3068	-1,964	4,000	2,649	5,318	-58,369	-116,725
3075	0,000	-3,924	-681,231	-1,363	-79,882	-159,754
3076	0,000	-3,849	-589,902	-1,180	-79,899	-159,787
3077	0,000	-3,773	-504,602	-1,009	-79,920	-159,829
3081	0,000	-3,698	-426,612	-853,198	-79,944	-159,877
3082	0,000	-3,608	-345,517	-690,882	-79,974	-159,938
3083	0,000	-3,518	-274,371	-548,462	-80,006	-160,001
3084	0,000	-3,428	-213,493	-426,578	-80,039	-160,069
3107	0,000	-4,000	-797,198	-1,595	-79,852	-159,695
3149	0,000	-3,232	-111,017	-221,332	-80,118	-160,226
3150	0,000	-3,125	-70,127	-139,387	-80,164	-160,317
3151	0,000	-3,018	-37,820	-74,602	-80,210	-160,411
3155	0,000	-3,338	-161,876	-323,211	-80,075	-160,139
3171	0,000	-2,911	-12,746	-24,283	-80,259	-160,507
3172	0,000	-2,784	9,252	19,925	-80,317	-160,625
3173	0,000	-2,657	24,375	50,388	-80,378	-160,746
3174	0,000	-2,530	34,074	70,010	-80,439	-160,869
3213	12,941	-20,000	0,000	0,000	0,000	0,000
3217	13,529	-20,000	0,000	0,000	0,000	0,000
3218	14,118	-20,000	0,000	0,000	0,000	0,000
3219	14,706	-20,000	0,000	0,000	0,000	0,000
3261	-3,683	2,000	3,485	6,984	-34,569	-69,133
3262	-2,703	2,000	3,778	7,569	-45,442	-90,877
3263	-3,030	2,000	3,722	7,457	-41,688	-83,369
3264	-3,356	2,000	3,621	7,254	-38,063	-76,120
3277	-2,641	8,000	22,006	44,019	-49,460	-98,913

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
3281	-2,075	8,000	19,806	39,626	-56,036	-112,066
3282	-2,264	8,000	20,643	41,298	-53,818	-107,630
3283	-2,452	8,000	21,389	42,789	-51,623	-103,238
3309	-1,887	8,000	18,925	37,867	-58,284	-116,562
3313	-1,371	8,000	15,869	31,759	-64,624	-129,242
3314	-1,543	8,000	16,995	34,011	-62,494	-124,981
3315	-1,715	8,000	18,026	36,070	-60,377	-120,749
3325	-1,838	4,000	2,515	5,050	-59,929	-119,845
3326	-1,499	4,000	2,141	4,302	-64,180	-128,347
3327	-1,612	4,000	2,268	4,557	-62,754	-125,496
3328	-1,725	4,000	2,393	4,806	-61,337	-122,661
3341	-1,386	4,000	2,011	4,042	-65,615	-131,216
3345	-1,285	4,000	1,891	3,804	-66,907	-133,802
3346	-1,183	4,000	1,769	3,559	-68,207	-136,401
3347	-1,082	4,000	1,643	3,308	-69,513	-139,014
3357	15,294	-20,000	0,000	0,000	0,000	0,000
3361	15,882	-20,000	0,000	0,000	0,000	0,000
3362	16,471	-20,000	0,000	0,000	0,000	0,000
3363	17,059	-20,000	0,000	0,000	0,000	0,000
3373	17,647	-20,000	0,000	0,000	0,000	0,000
3377	18,235	-20,000	0,000	0,000	0,000	0,000
3378	18,824	-20,000	0,000	0,000	0,000	0,000
3379	19,412	-20,000	0,000	0,000	0,000	0,000
3380	20,000	-20,000	0,000	0,000	0,000	0,000
3381	20,000	-19,389	0,000	0,000	60,243	120,475
3382	20,000	-18,778	0,000	0,000	278,772	557,523
3383	20,000	-18,167	0,000	0,000	638,592	1,277
3605	0,000	-2,252	42,180	86,729	-80,578	-161,146
3606	0,000	-2,101	41,670	85,999	-80,655	-161,301
3607	0,000	-1,950	39,141	81,236	-80,734	-161,457
3611	0,000	-2,403	39,614	81,318	-80,502	-160,994

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
3627	0,000	-1,799	35,382	74,024	-80,813	-161,616
3628	0,000	-1,619	30,080	63,792	-80,908	-161,806
3629	0,000	-1,439	24,472	52,960	-81,004	-161,998
3630	0,000	-1,260	18,973	42,357	-81,101	-162,192
3643	-2,377	2,000	3,776	7,564	-49,324	-98,641
3647	-2,071	2,000	3,709	7,431	-53,081	-106,153
3648	-1,764	2,000	3,565	7,143	-56,948	-113,887
3649	-1,458	2,000	3,326	6,665	-60,922	-121,835
3679	-1,199	8,000	14,676	29,376	-66,768	-133,530
3683	-0,728	8,000	10,751	21,530	-72,870	-145,734
3684	-0,885	8,000	12,201	24,428	-70,809	-141,613
3685	-1,042	8,000	13,519	27,064	-68,775	-137,544
3771	-0,981	4,000	1,513	3,049	-70,826	-141,639
3775	-0,708	4,000	1,141	2,305	-74,387	-148,761
3776	-0,799	4,000	1,269	2,561	-73,195	-146,377
3777	-0,890	4,000	1,393	2,809	-72,008	-144,003
3841	-0,618	4,000	1,007	2,038	-75,584	-151,155
3845	-0,536	4,000	882,676	1,789	-76,660	-153,307
3846	-0,455	4,000	753,118	1,530	-77,739	-155,466
3847	-0,373	4,000	618,077	1,260	-78,821	-157,631
3851	20,000	-17,556	0,000	0,000	1,124	2,249
3855	20,000	-16,944	0,000	0,000	1,722	3,444
3856	20,000	-16,333	0,000	0,000	2,419	4,838
3857	20,000	-15,722	0,000	0,000	3,204	6,407
3931	0,000	-0,866	8,289	21,895	-81,315	-162,619
3932	0,000	-0,652	3,459	12,749	-81,431	-162,852
3933	0,000	-0,439	-748,268	4,864	-81,548	-163,086
3937	0,000	-1,080	13,817	32,454	-81,198	-162,386
4133	-0,572	8,000	9,196	18,423	-74,970	-149,933
4137	-0,143	8,000	3,152	6,339	-81,452	-162,894
4138	-0,286	8,000	5,694	11,421	-79,129	-158,250

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
4139	-0,429	8,000	7,644	15,318	-77,002	-153,997
4149	-1,151	2,000	2,972	5,957	-65,001	-129,991
4150	-0,288	2,000	1,124	2,261	-77,363	-154,716
4151	-0,576	2,000	1,941	3,895	-73,042	-146,073
4152	-0,863	2,000	2,531	5,075	-68,970	-137,930
4159	20,000	-15,111	0,000	0,000	4,066	8,131
4163	20,000	-14,500	0,000	0,000	4,996	9,991
4164	20,000	-13,889	0,000	0,000	5,985	11,970
4165	20,000	-13,278	0,000	0,000	7,025	14,050
4169	0,000	4,390	-90,847	-154,306	-83,960	-167,909
4170	0,000	4,474	-92,256	-156,712	-83,990	-167,970
4171	0,000	4,557	-93,671	-159,134	-84,020	-168,029
4175	0,000	4,307	-89,444	-151,924	-83,929	-167,848
4179	0,000	4,077	-85,651	-145,537	-83,841	-167,672
4180	0,000	4,153	-86,902	-147,634	-83,871	-167,731
4181	0,000	4,230	-88,168	-149,765	-83,900	-167,790
4201	-0,292	4,000	477,085	978,496	-79,906	-159,801
4205	-0,073	4,000	64,820	154,729	-82,833	-165,655
4206	-0,146	4,000	207,945	440,720	-81,856	-163,701
4207	-0,219	4,000	345,261	715,097	-80,881	-161,750
4211	0,000	3,786	-81,063	-137,950	-83,723	-167,435
4212	0,000	3,857	-82,163	-139,752	-83,753	-167,494
4213	0,000	3,929	-83,280	-141,595	-83,782	-167,553
4214	0,000	4,000	-84,416	-143,478	-83,811	-167,611
4317	0,000	0,029	-8,322	-9,070	-81,803	-163,596
4318	0,000	0,283	-12,047	-15,828	-81,941	-163,872
4319	0,000	0,537	-15,722	-22,459	-82,079	-164,147
4323	0,000	-0,225	-4,411	-1,916	-81,665	-163,319
4345	0,000	4,732	-96,627	-164,224	-84,080	-168,148
4346	0,000	4,823	-98,161	-166,880	-84,109	-168,208
4347	0,000	4,914	-99,684	-169,525	-84,139	-168,266

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
4351	0,000	4,641	-95,086	-161,566	-84,049	-168,087
4361	0,000	5,005	-101,193	-172,153	-84,167	-168,323
4362	0,000	5,105	-102,818	-174,989	-84,197	-168,383
4363	0,000	5,204	-104,416	-177,788	-84,226	-168,441
4364	0,000	5,304	-105,984	-180,541	-84,254	-168,497
4371	0,000	6,438	-121,015	-207,312	-84,502	-168,993
4372	0,000	6,567	-122,417	-209,869	-84,521	-169,032
4373	0,000	6,696	-123,796	-212,403	-84,539	-169,067
4377	0,000	6,825	-125,177	-214,962	-84,555	-169,099
4378	0,000	6,965	-126,720	-217,852	-84,570	-169,130
4379	0,000	7,106	-128,349	-220,936	-84,583	-169,156
4380	0,000	7,246	-130,126	-224,334	-84,594	-169,178
4387	0,000	5,511	-109,147	-186,113	-84,309	-168,608
4388	0,000	5,620	-110,728	-188,908	-84,336	-168,662
4389	0,000	5,728	-112,258	-191,620	-84,362	-168,714
4393	0,000	5,403	-107,518	-183,239	-84,281	-168,551
4403	0,000	5,955	-115,284	-197,004	-84,413	-168,814
4404	0,000	6,073	-116,770	-199,661	-84,437	-168,863
4405	0,000	6,191	-118,197	-202,220	-84,459	-168,908
4409	0,000	6,309	-119,569	-204,693	-84,480	-168,950
4419	0,000	5,836	-113,735	-194,243	-84,387	-168,763
4429	0,000	1,093	-26,875	-43,057	-82,376	-164,741
4430	0,000	1,396	-32,584	-53,435	-82,535	-165,060
4431	0,000	1,698	-38,027	-63,156	-82,696	-165,381
4435	0,000	0,791	-19,769	-29,799	-82,215	-164,420
4445	0,000	2,000	-52,955	-91,685	-82,852	-165,692
4446	0,000	2,286	-60,152	-104,652	-83,005	-166,000
4447	0,000	2,571	-64,712	-112,222	-83,154	-166,298
4448	0,000	2,857	-68,570	-118,311	-83,298	-166,585
4449	0,863	2,000	-2,681	-5,348	-68,992	-137,971
4450	0,576	2,000	-1,975	-3,937	-73,093	-146,175

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
4451	0,288	2,000	-811,545	-1,609	-77,411	-154,810
4497	0,000	8,000	-145,416	-254,269	-84,616	-169,222
4498	0,000	7,540	-134,625	-233,056	-84,610	-169,209
4499	0,000	7,693	-137,672	-239,023	-84,615	-169,218
4500	0,000	7,847	-141,288	-246,132	-84,617	-169,223
4501	0,750	8,000	-11,214	-22,385	-72,611	-145,214
4502	0,500	8,000	-8,689	-17,336	-76,019	-152,029
4503	0,250	8,000	-5,221	-10,402	-79,721	-159,434
4507	0,000	7,387	-132,123	-228,190	-84,603	-169,195
4601	0,000	3,286	-73,963	-126,606	-83,503	-166,995
4602	0,000	3,429	-75,883	-129,618	-83,568	-167,125
4603	0,000	3,571	-77,890	-132,811	-83,631	-167,251
4607	0,000	3,143	-72,120	-123,751	-83,436	-166,861
4617	0,000	3,714	-79,984	-136,191	-83,693	-167,375
4659	20,000	-12,667	0,000	0,000	8,108	16,216
4663	20,000	-12,056	0,000	0,000	9,227	18,455
4664	20,000	-11,444	0,000	0,000	10,376	20,752
4665	20,000	-10,833	0,000	0,000	11,546	23,093
4865	20,000	-10,222	0,000	0,000	12,732	25,465
4869	20,000	-9,611	0,000	0,000	13,926	27,854
4870	20,000	-9,000	0,000	0,000	15,123	30,247
4871	20,000	-8,389	0,000	0,000	16,314	32,630
4875	1,000	8,000	-13,431	-26,816	-69,383	-138,758
4879	2,500	8,000	-21,828	-43,587	-51,116	-102,219
4880	2,000	8,000	-19,762	-39,465	-56,953	-113,895
4881	1,500	8,000	-17,034	-34,015	-63,040	-126,071
4901	1,151	2,000	-3,027	-6,040	-65,008	-130,005
4902	2,071	2,000	-3,766	-7,518	-53,082	-106,152
4903	1,764	2,000	-3,624	-7,234	-56,950	-113,887
4904	1,458	2,000	-3,385	-6,757	-60,925	-121,837
4921	2,377	2,000	-3,831	-7,649	-49,324	-98,636

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
4925	3,356	2,000	-3,671	-7,330	-38,062	-76,112
4926	3,030	2,000	-3,774	-7,535	-41,687	-83,363
4927	2,703	2,000	-3,831	-7,650	-45,442	-90,873
5107	3,000	8,000	-23,380	-46,682	-45,517	-91,018
5111	4,500	8,000	-25,782	-51,442	-30,309	-60,596
5112	4,000	8,000	-25,280	-50,458	-35,115	-70,210
5113	3,500	8,000	-24,503	-48,918	-40,186	-80,353
5133	20,000	-7,778	0,000	0,000	17,494	34,990
5137	20,000	-7,167	0,000	0,000	18,655	37,313
5138	20,000	-6,556	0,000	0,000	19,790	39,583
5139	20,000	-5,944	0,000	0,000	20,891	41,787
5195	4,726	2,000	-2,963	-5,919	-24,265	-48,524
5196	4,378	2,000	-3,168	-6,326	-27,553	-55,098
5197	4,030	2,000	-3,360	-6,711	-30,986	-61,962
5201	3,683	2,000	-3,534	-7,057	-34,566	-69,122
5221	5,073	2,000	-2,753	-5,500	-21,120	-42,236
5222	6,184	2,000	-2,095	-4,186	-11,988	-23,979
5223	5,814	2,000	-2,308	-4,612	-14,881	-29,764
5224	5,444	2,000	-2,529	-5,052	-17,924	-35,846
5317	6,554	2,000	-1,891	-3,779	-9,238	-18,482
5318	7,737	2,000	-1,316	-2,631	-1,354	-2,726
5319	7,343	2,000	-1,493	-2,986	-3,836	-7,685
5320	6,949	2,000	-1,685	-3,369	-6,461	-12,933
5327	20,000	-5,333	0,000	0,000	21,952	43,910
5331	20,000	-4,722	0,000	0,000	22,966	45,938
5332	20,000	-4,111	0,000	0,000	23,924	47,856
5333	20,000	-3,500	0,000	0,000	24,820	49,650
5337	5,000	8,000	-26,078	-52,007	-25,759	-51,493
5341	6,875	8,000	-24,902	-49,711	-10,697	-21,401
5342	6,250	8,000	-25,853	-51,514	-15,288	-30,601
5343	5,625	8,000	-26,277	-52,335	-20,304	-40,615

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
5363	8,132	2,000	-1,152	-2,305	988,853	1,956
5367	9,392	2,000	-722,693	-1,443	7,616	15,201
5368	8,972	2,000	-851,046	-1,701	5,546	11,063
5369	8,552	2,000	-994,051	-1,988	3,339	6,653
5527	7,500	8,000	-24,261	-48,334	-6,680	-13,293
5528	9,375	8,000	-20,907	-41,404	4,365	8,568
5529	8,750	8,000	-22,398	-44,426	1,126	2,190
5530	8,125	8,000	-23,730	-47,094	-2,569	-5,139
5537	20,000	-2,889	0,000	0,000	25,647	51,306
5541	20,000	-2,278	0,000	0,000	26,399	52,811
5542	20,000	-1,667	0,000	0,000	27,068	54,151
5543	20,000	-1,056	0,000	0,000	27,650	55,316
5621	9,812	2,000	-608,070	-1,212	9,556	19,079
5622	11,154	2,000	-321,346	-632,490	14,951	29,869
5623	10,706	2,000	-404,700	-801,355	13,282	26,529
5624	10,259	2,000	-499,844	-993,802	11,486	22,937
5641	11,601	2,000	-248,576	-484,987	16,500	32,969
5645	13,030	2,000	-75,181	-134,905	20,711	41,406
5646	12,554	2,000	-123,993	-233,014	19,425	38,829
5647	12,077	2,000	-181,479	-349,106	18,024	36,021
5657	10,000	8,000	-19,747	-39,321	7,229	14,206
5661	11,875	8,000	-14,933	-30,441	14,567	28,851
5662	11,250	8,000	-16,811	-33,609	12,576	24,860
5663	10,625	8,000	-18,623	-37,151	10,066	19,907
5693	20,000	-0,444	0,000	0,000	28,138	56,294
5697	20,000	0,167	0,000	0,000	28,527	57,076
5698	20,000	0,778	0,000	0,000	28,815	57,653
5699	20,000	1,389	0,000	0,000	28,997	58,018
5735	15,029	2,000	49,668	111,162	24,972	49,951
5736	14,521	2,000	29,008	71,360	24,052	48,106
5737	14,014	2,000	1,192	16,953	23,026	46,047

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
5741	13,507	2,000	-34,310	-53,303	21,887	43,764
5751	15,536	2,000	63,723	137,612	25,790	51,591
5755	17,157	2,000	71,186	147,580	27,764	55,548
5756	16,617	2,000	74,297	155,309	27,211	54,439
5757	16,077	2,000	72,067	152,524	26,554	53,122
5787	12,500	8,000	-14,032	-28,561	16,159	32,365
5788	14,375	8,000	-10,791	-21,744	20,971	41,977
5789	13,750	8,000	-11,962	-24,132	19,551	39,140
5790	13,125	8,000	-13,072	-26,441	17,959	35,950
5797	20,000	2,000	0,000	0,000	29,070	58,166
5798	19,424	2,000	18,524	37,863	29,017	58,060
5799	18,849	2,000	35,980	73,655	28,858	57,742
5800	18,273	2,000	51,326	105,358	28,592	57,208
5801	20,000	2,500	0,000	0,000	29,050	58,129
5802	20,000	3,000	0,000	0,000	29,001	58,035
5803	20,000	3,500	0,000	0,000	28,923	57,881
5813	17,698	2,000	63,539	130,974	28,217	56,457
5833	15,000	8,000	-9,602	-19,330	22,216	44,466
5841	20,000	4,000	0,000	0,000	28,814	57,665
5846	17,500	8,000	-4,795	-9,636	25,614	51,255
5847	16,875	8,000	-5,997	-12,056	24,990	50,009
5848	16,250	8,000	-7,201	-14,481	24,219	48,469
5849	15,625	8,000	-8,404	-16,908	23,296	46,625
5862	20,000	4,500	0,000	0,000	28,674	57,385
5866	20,000	5,000	0,000	0,000	28,500	57,038
5867	20,000	5,500	0,000	0,000	28,293	56,622
5871	20,000	6,000	0,000	0,000	28,049	56,135
5878	20,000	8,000	0,000	0,000	26,708	53,440
5882	20,000	7,000	0,000	0,000	27,454	54,938
5883	20,000	7,500	0,000	0,000	27,100	54,227
5884	19,375	8,000	-1,197	-2,404	26,640	53,304

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
5885	18,125	8,000	-3,594	-7,221	26,095	52,215
5886	20,000	6,500	0,000	0,000	27,770	55,574

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

11. Results for phase 6

Table [15] Table of deformations phase no: 6

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1	-20,000	-18,333	0,000	0,000	525,208	78,301
2	-20,000	-18,889	0,000	0,000	279,351	41,674
3	-20,000	-19,444	0,000	0,000	102,847	15,362
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	2,119	315,773
18	-20,000	-16,667	0,000	0,000	1,637	243,941
19	-20,000	-17,222	0,000	0,000	1,208	180,033
26	-20,000	-17,778	0,000	0,000	836,204	124,624
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
43	-15,294	-20,000	0,000	0,000	0,000	0,000
47	-14,706	-20,000	0,000	0,000	0,000	0,000
48	-14,118	-20,000	0,000	0,000	0,000	0,000
49	-13,529	-20,000	0,000	0,000	0,000	0,000
103	-20,000	-15,556	0,000	0,000	2,650	394,972
107	-20,000	-13,889	0,000	0,000	4,503	671,424
108	-20,000	-14,444	0,000	0,000	3,846	573,317
109	-20,000	-15,000	0,000	0,000	3,227	480,995
129	-20,000	-13,333	0,000	0,000	5,195	774,816
133	-20,000	-11,667	0,000	0,000	7,447	1,112
134	-20,000	-12,222	0,000	0,000	6,670	995,526

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
135	-20,000	-12,778	0,000	0,000	5,918	883,008
151	-12,941	-20,000	0,000	0,000	0,000	0,000
155	-12,353	-20,000	0,000	0,000	0,000	0,000
156	-11,765	-20,000	0,000	0,000	0,000	0,000
157	-11,176	-20,000	0,000	0,000	0,000	0,000
183	-10,588	-20,000	0,000	0,000	0,000	0,000
187	-10,000	-20,000	0,000	0,000	0,000	0,000
188	-9,412	-20,000	0,000	0,000	0,000	0,000
189	-8,824	-20,000	0,000	0,000	0,000	0,000
289	-20,000	-11,111	0,000	0,000	8,246	1,232
290	-20,000	-9,444	0,000	0,000	10,744	1,607
291	-20,000	-10,000	0,000	0,000	9,897	1,480
292	-20,000	-10,556	0,000	0,000	9,064	1,354
337	-20,000	-8,889	0,000	0,000	11,600	1,736
341	-20,000	-7,222	0,000	0,000	14,202	2,129
342	-20,000	-7,778	0,000	0,000	13,332	1,998
343	-20,000	-8,333	0,000	0,000	12,464	1,866
375	-8,235	-20,000	0,000	0,000	0,000	0,000
379	-7,647	-20,000	0,000	0,000	0,000	0,000
380	-7,059	-20,000	0,000	0,000	0,000	0,000
381	-6,471	-20,000	0,000	0,000	0,000	0,000
407	-20,000	-6,667	0,000	0,000	15,071	2,261
411	-20,000	-5,000	0,000	0,000	17,647	2,653
412	-20,000	-5,556	0,000	0,000	16,796	2,523
413	-20,000	-6,111	0,000	0,000	15,936	2,392
423	-20,000	-4,444	0,000	0,000	18,489	2,781
427	-20,000	-2,778	0,000	0,000	20,933	3,156
428	-20,000	-3,333	0,000	0,000	20,133	3,033
429	-20,000	-3,889	0,000	0,000	19,318	2,908
436	-20,000	-2,222	0,000	0,000	21,717	3,276
437	-20,000	-0,556	0,000	0,000	23,961	3,622

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
438	-20,000	-1,111	0,000	0,000	23,231	3,510
439	-20,000	-1,667	0,000	0,000	22,483	3,394
507	-5,882	-20,000	0,000	0,000	0,000	0,000
511	-5,294	-20,000	0,000	0,000	0,000	0,000
512	-4,706	-20,000	0,000	0,000	0,000	0,000
513	-4,118	-20,000	0,000	0,000	0,000	0,000
679	-20,000	1,500	0,000	0,000	26,511	4,015
680	-20,000	1,000	0,000	0,000	25,911	3,923
681	-20,000	0,500	0,000	0,000	25,299	3,829
685	-20,000	0,000	0,000	0,000	24,673	3,732
689	-18,273	2,000	-1,821	-280,660	27,054	4,100
690	-18,849	2,000	-1,215	-187,306	27,080	4,103
691	-19,424	2,000	-607,580	-93,713	27,094	4,105
695	-20,000	2,000	0,000	0,000	27,099	4,106
699	-20,000	3,500	0,000	0,000	38,399	5,812
700	-20,000	3,000	0,000	0,000	34,635	5,244
701	-20,000	2,500	0,000	0,000	30,875	4,675
711	-20,000	4,000	0,000	0,000	42,224	6,379
712	-18,249	4,000	-1,632	-258,919	42,368	6,372
713	-18,833	4,000	-1,106	-173,107	42,352	6,376
714	-19,416	4,000	-583,177	-86,782	42,390	6,378
769	-17,698	2,000	-2,422	-373,653	27,017	4,095
770	-16,077	2,000	-4,088	-632,646	26,872	4,072
771	-16,617	2,000	-3,538	-546,890	26,928	4,081
772	-17,157	2,000	-2,982	-460,528	26,976	4,089
795	-17,665	4,000	-2,018	-343,922	42,130	6,366
796	-16,095	4,000	-3,699	-567,924	42,049	6,340
797	-16,619	4,000	-3,297	-494,499	42,124	6,350
798	-17,142	4,000	-2,772	-419,817	42,078	6,359
991	-3,529	-20,000	0,000	0,000	0,000	0,000
995	-2,941	-20,000	0,000	0,000	0,000	0,000

**RELAZIONE DI CALCOLO OPERE
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Node	x-coord.	y-coord.	dUx	Ux	dUy	Uy
No.			[10 ⁻⁶ m]	[10 ⁻³ m]	[10 ⁻⁶ m]	[10 ⁻³ m]
996	-2,353	-20,000	0,000	0,000	0,000	0,000
997	-1,765	-20,000	0,000	0,000	0,000	0,000
1119	-15,536	2,000	-4,631	-717,706	26,815	4,062
1123	-14,014	2,000	-6,135	-952,932	26,576	4,019
1124	-14,521	2,000	-5,638	-875,305	26,672	4,035
1125	-15,029	2,000	-5,135	-796,875	26,748	4,049
1129	-15,572	4,000	-4,321	-640,284	41,803	6,328
1130	-15,103	4,000	-4,880	-703,944	41,980	6,316
1131	-14,634	4,000	-5,175	-765,939	42,051	6,302
1132	-14,165	4,000	-5,471	-826,450	41,964	6,286
1161	-13,696	4,000	-5,815	-885,677	41,847	6,267
1162	-12,435	4,000	-6,678	-1,036	41,483	6,206
1163	-12,855	4,000	-6,387	-987,282	41,609	6,228
1164	-13,276	4,000	-6,102	-937,340	41,733	6,249
1255	-1,176	-20,000	0,000	0,000	0,000	0,000
1259	-0,588	-20,000	0,000	0,000	0,000	0,000
1260	0,000	-20,000	0,000	0,000	0,000	0,000
1261	0,588	-20,000	0,000	0,000	0,000	0,000
1373	-13,507	2,000	-6,622	-1,030	26,472	4,001
1377	-12,077	2,000	-7,957	-1,241	26,030	3,932
1378	-12,554	2,000	-7,516	-1,171	26,196	3,958
1379	-13,030	2,000	-7,072	-1,101	26,336	3,981
1389	-12,015	4,000	-6,988	-1,083	41,194	6,180
1393	-11,638	4,000	-7,181	-1,124	41,147	6,156
1394	-11,261	4,000	-7,432	-1,163	40,965	6,129
1395	-10,884	4,000	-7,673	-1,201	40,792	6,100
1605	1,176	-20,000	0,000	0,000	0,000	0,000
1609	1,765	-20,000	0,000	0,000	0,000	0,000
1610	2,353	-20,000	0,000	0,000	0,000	0,000
1611	2,941	-20,000	0,000	0,000	0,000	0,000
1695	-11,601	2,000	-8,384	-1,310	25,852	3,904

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1696	-10,259	2,000	-9,558	-1,499	25,186	3,802
1697	-10,706	2,000	-9,171	-1,437	25,431	3,840
1698	-11,154	2,000	-8,776	-1,374	25,645	3,873
1727	-10,508	4,000	-7,880	-1,237	40,463	6,067
1731	-9,494	4,000	-8,435	-1,327	39,916	5,968
1732	-9,832	4,000	-8,238	-1,298	40,140	6,004
1733	-10,170	4,000	-8,035	-1,268	40,371	6,037
1769	3,529	-20,000	0,000	0,000	0,000	0,000
1773	4,118	-20,000	0,000	0,000	0,000	0,000
1774	4,706	-20,000	0,000	0,000	0,000	0,000
1775	5,294	-20,000	0,000	0,000	0,000	0,000
1943	-9,812	2,000	-9,933	-1,561	24,921	3,761
1947	-8,552	2,000	-10,972	-1,731	23,990	3,618
1948	-8,972	2,000	-10,628	-1,675	24,331	3,670
1949	-9,392	2,000	-10,281	-1,618	24,637	3,718
1953	-9,157	4,000	-8,566	-1,354	39,564	5,929
1954	-8,854	4,000	-8,704	-1,378	39,430	5,892
1955	-8,551	4,000	-8,863	-1,400	39,158	5,853
1956	-8,248	4,000	-9,011	-1,421	38,898	5,811
1963	-7,946	4,000	-9,103	-1,441	38,655	5,767
1967	-7,132	4,000	-9,390	-1,489	37,806	5,632
1968	-7,403	4,000	-9,301	-1,474	38,070	5,679
1969	-7,674	4,000	-9,185	-1,458	38,355	5,724
2175	5,882	-20,000	0,000	0,000	0,000	0,000
2176	6,471	-20,000	0,000	0,000	0,000	0,000
2177	7,059	-20,000	0,000	0,000	0,000	0,000
2178	7,647	-20,000	0,000	0,000	0,000	0,000
2229	-6,860	4,000	-9,403	-1,504	37,524	5,581
2230	-6,617	4,000	-9,443	-1,516	37,156	5,534
2231	-6,374	4,000	-9,527	-1,528	36,808	5,484
2232	-6,131	4,000	-9,602	-1,539	36,490	5,432

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
2261	-5,888	4,000	-9,612	-1,549	36,176	5,376
2262	-5,234	4,000	-9,817	-1,576	35,038	5,213
2263	-5,452	4,000	-9,769	-1,567	35,397	5,270
2264	-5,670	4,000	-9,672	-1,559	35,724	5,324
2305	-5,016	4,000	-9,882	-1,584	34,635	5,154
2309	-4,820	4,000	-9,959	-1,591	34,292	5,099
2310	-4,625	4,000	-10,006	-1,598	33,932	5,041
2311	-4,429	4,000	-10,087	-1,605	33,513	4,980
2439	-8,132	2,000	-11,304	-1,787	23,631	3,561
2440	-7,737	2,000	-11,614	-1,839	23,241	3,502
2441	-7,343	2,000	-11,929	-1,891	22,828	3,438
2442	-6,949	2,000	-12,240	-1,943	22,374	3,368
2475	8,235	-20,000	0,000	0,000	0,000	0,000
2479	8,824	-20,000	0,000	0,000	0,000	0,000
2480	9,412	-20,000	0,000	0,000	0,000	0,000
2481	10,000	-20,000	0,000	0,000	0,000	0,000
2565	-6,554	2,000	-12,543	-1,996	21,876	3,291
2569	-5,444	2,000	-13,399	-2,145	20,229	3,035
2570	-5,814	2,000	-13,113	-2,095	20,822	3,128
2571	-6,184	2,000	-12,827	-2,045	21,371	3,213
2743	-4,234	4,000	-10,207	-1,612	33,178	4,918
2747	-3,709	4,000	-10,378	-1,630	32,087	4,733
2748	-3,884	4,000	-10,313	-1,624	32,470	4,797
2749	-4,059	4,000	-10,270	-1,618	32,827	4,859
2797	-3,534	4,000	-10,474	-1,636	31,679	4,667
2801	-3,377	4,000	-10,563	-1,642	31,341	4,604
2802	-3,220	4,000	-10,649	-1,648	30,955	4,539
2803	-3,063	4,000	-10,764	-1,654	30,535	4,471
2897	-5,073	2,000	-13,684	-2,196	19,589	2,934
2898	-4,726	2,000	-13,952	-2,245	18,941	2,832
2899	-4,378	2,000	-14,222	-2,296	18,246	2,720

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
2900	-4,030	2,000	-14,494	-2,347	17,501	2,599
2997	10,588	-20,000	0,000	0,000	0,000	0,000
3001	11,176	-20,000	0,000	0,000	0,000	0,000
3002	11,765	-20,000	0,000	0,000	0,000	0,000
3003	12,353	-20,000	0,000	0,000	0,000	0,000
3055	-2,906	4,000	-10,953	-1,660	30,207	4,400
3056	-2,765	4,000	-11,093	-1,666	29,831	4,333
3057	-2,624	4,000	-11,284	-1,672	29,500	4,264
3058	-2,483	4,000	-11,496	-1,678	29,209	4,191
3065	-2,343	4,000	-11,698	-1,685	28,945	4,114
3066	-2,217	4,000	-11,888	-1,691	28,703	4,042
3067	-2,091	4,000	-12,099	-1,698	28,492	3,966
3068	-1,964	4,000	-12,301	-1,705	28,321	3,886
3075	0,000	-3,924	-24,176	-3,611	-604,379	61,770
3076	0,000	-3,849	-24,172	-3,611	-604,731	61,757
3077	0,000	-3,773	-24,168	-3,610	-605,187	61,742
3081	0,000	-3,698	-24,164	-3,610	-605,723	61,723
3082	0,000	-3,608	-24,160	-3,609	-606,421	61,699
3083	0,000	-3,518	-24,154	-3,608	-607,180	61,673
3084	0,000	-3,428	-24,149	-3,607	-608,010	61,644
3107	0,000	-4,000	-24,180	-3,612	-603,835	61,785
3149	0,000	-3,232	-24,134	-3,605	-610,049	61,572
3150	0,000	-3,125	-24,124	-3,603	-611,277	61,529
3151	0,000	-3,018	-24,112	-3,601	-612,585	61,483
3155	0,000	-3,338	-24,142	-3,606	-608,906	61,612
3171	0,000	-2,911	-24,099	-3,599	-613,972	61,433
3172	0,000	-2,784	-24,081	-3,596	-615,722	61,371
3173	0,000	-2,657	-24,060	-3,592	-617,579	61,305
3174	0,000	-2,530	-24,036	-3,588	-619,542	61,235
3213	12,941	-20,000	0,000	0,000	0,000	0,000
3217	13,529	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3218	14,118	-20,000	0,000	0,000	0,000	0,000
3219	14,706	-20,000	0,000	0,000	0,000	0,000
3261	-3,683	2,000	-14,770	-2,401	16,701	2,466
3262	-2,703	2,000	-15,590	-2,561	14,129	2,023
3263	-3,030	2,000	-15,307	-2,506	15,044	2,184
3264	-3,356	2,000	-15,035	-2,452	15,900	2,331
3325	-1,838	4,000	-12,469	-1,713	28,176	3,801
3326	-1,499	4,000	-13,102	-1,738	27,784	3,548
3327	-1,612	4,000	-12,868	-1,729	27,850	3,637
3328	-1,725	4,000	-12,644	-1,720	27,980	3,722
3341	-1,386	4,000	-13,313	-1,748	27,774	3,454
3345	-1,285	4,000	-13,490	-1,759	27,792	3,364
3346	-1,183	4,000	-13,663	-1,770	27,854	3,269
3347	-1,082	4,000	-13,834	-1,783	27,949	3,168
3357	15,294	-20,000	0,000	0,000	0,000	0,000
3361	15,882	-20,000	0,000	0,000	0,000	0,000
3362	16,471	-20,000	0,000	0,000	0,000	0,000
3363	17,059	-20,000	0,000	0,000	0,000	0,000
3373	17,647	-20,000	0,000	0,000	0,000	0,000
3377	18,235	-20,000	0,000	0,000	0,000	0,000
3378	18,824	-20,000	0,000	0,000	0,000	0,000
3379	19,412	-20,000	0,000	0,000	0,000	0,000
3380	20,000	-20,000	0,000	0,000	0,000	0,000
3381	20,000	-19,389	0,000	0,000	-34,147	-5,379
3382	20,000	-18,778	0,000	0,000	-151,457	-23,646
3383	20,000	-18,167	0,000	0,000	-346,830	-53,989
3605	0,000	-2,252	-23,970	-3,578	-624,206	61,069
3606	0,000	-2,101	-23,928	-3,571	-626,950	60,971
3607	0,000	-1,950	-23,879	-3,564	-629,844	60,868
3611	0,000	-2,403	-24,008	-3,584	-621,610	61,161
3627	0,000	-1,799	-23,824	-3,555	-632,890	60,761

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3628	0,000	-1,619	-23,751	-3,544	-636,711	60,627
3629	0,000	-1,439	-23,668	-3,531	-640,755	60,487
3630	0,000	-1,260	-23,575	-3,517	-645,028	60,341
3643	-2,377	2,000	-15,889	-2,617	13,147	1,846
3647	-2,071	2,000	-16,191	-2,670	12,141	1,665
3648	-1,764	2,000	-16,546	-2,723	11,047	1,469
3649	-1,458	2,000	-16,959	-2,774	9,841	1,255
3771	-0,981	4,000	-14,063	-1,798	28,114	3,061
3775	-0,708	4,000	-14,632	-1,846	29,464	2,735
3776	-0,799	4,000	-14,469	-1,828	28,855	2,851
3777	-0,890	4,000	-14,270	-1,812	28,424	2,959
3841	-0,618	4,000	-14,717	-1,865	30,266	2,611
3845	-0,536	4,000	-14,884	-1,884	31,067	2,490
3846	-0,455	4,000	-15,239	-1,906	32,625	2,360
3847	-0,373	4,000	-15,507	-1,933	36,150	2,222
3851	20,000	-17,556	0,000	0,000	-615,272	-95,616
3855	20,000	-16,944	0,000	0,000	-951,896	-147,757
3856	20,000	-16,333	0,000	0,000	-1,352	-209,666
3857	20,000	-15,722	0,000	0,000	-1,811	-280,622
3931	0,000	-0,866	-23,330	-3,481	-655,219	60,000
3932	0,000	-0,652	-23,170	-3,458	-661,270	59,804
3933	0,000	-0,439	-22,987	-3,433	-667,713	59,602
3937	0,000	-1,080	-23,471	-3,502	-649,537	60,188
4149	-1,151	2,000	-17,334	-2,821	8,402	1,024
4150	-0,288	2,000	-18,788	-2,908	2,205	301,884
4151	-0,576	2,000	-18,206	-2,886	5,032	547,802
4152	-0,863	2,000	-17,674	-2,857	6,789	791,714
4159	20,000	-15,111	0,000	0,000	-2,324	-359,923
4163	20,000	-14,500	0,000	0,000	-2,887	-446,892
4164	20,000	-13,889	0,000	0,000	-3,496	-540,873
4165	20,000	-13,278	0,000	0,000	-4,146	-641,230

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4169	0,000	4,390	-37,643	-2,980	-981,356	51,977
4170	0,000	4,474	-38,877	-3,019	-987,570	51,601
4171	0,000	4,557	-40,099	-3,059	-993,574	51,234
4175	0,000	4,307	-36,400	-2,942	-974,693	52,364
4179	0,000	4,077	-32,963	-2,851	-954,658	53,480
4180	0,000	4,153	-34,108	-2,879	-961,594	53,099
4181	0,000	4,230	-35,255	-2,910	-968,216	52,727
4201	-0,292	4,000	-15,053	-1,964	41,317	2,081
4205	-0,073	4,000	-27,449	-2,499	13,469	906,554
4206	-0,146	4,000	-13,943	-2,068	27,483	1,434
4207	-0,219	4,000	-8,695	-1,897	39,307	1,835
4211	0,000	3,786	-28,704	-2,765	-924,205	54,816
4212	0,000	3,857	-29,724	-2,782	-931,549	54,528
4213	0,000	3,929	-30,767	-2,802	-939,420	54,208
4214	0,000	4,000	-31,824	-2,824	-947,421	53,870
4317	0,000	0,029	-22,493	-3,366	-683,349	59,142
4318	0,000	0,283	-22,159	-3,324	-692,810	58,885
4319	0,000	0,537	-21,770	-3,276	-703,078	58,626
4323	0,000	-0,225	-22,779	-3,404	-674,569	59,394
4345	0,000	4,732	-42,608	-3,148	-1,007	50,495
4346	0,000	4,823	-43,890	-3,197	-1,013	50,129
4347	0,000	4,914	-45,151	-3,246	-1,019	49,771
4351	0,000	4,641	-41,308	-3,101	-999,758	50,877
4361	0,000	5,005	-46,390	-3,296	-1,025	49,425
4362	0,000	5,105	-47,710	-3,351	-1,032	49,059
4363	0,000	5,204	-48,996	-3,408	-1,039	48,703
4364	0,000	5,304	-50,245	-3,464	-1,045	48,357
4371	0,000	6,438	-62,017	-4,110	-1,082	45,517
4372	0,000	6,567	-63,127	-4,181	-1,083	45,346
4373	0,000	6,696	-64,209	-4,252	-1,085	45,203
4377	0,000	6,825	-65,267	-4,322	-1,086	45,085

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4378	0,000	6,965	-66,398	-4,398	-1,087	44,984
4379	0,000	7,106	-67,508	-4,473	-1,087	44,911
4380	0,000	7,246	-68,604	-4,548	-1,088	44,863
4387	0,000	5,511	-52,733	-3,583	-1,056	47,657
4388	0,000	5,620	-53,966	-3,646	-1,060	47,321
4389	0,000	5,728	-55,155	-3,708	-1,064	47,008
4393	0,000	5,403	-51,456	-3,521	-1,050	48,017
4403	0,000	5,955	-57,508	-3,838	-1,071	46,429
4404	0,000	6,073	-58,669	-3,905	-1,074	46,166
4405	0,000	6,191	-59,789	-3,972	-1,077	45,929
4409	0,000	6,309	-60,873	-4,038	-1,079	45,717
4419	0,000	5,836	-56,303	-3,770	-1,068	46,718
4429	0,000	1,093	-20,717	-3,154	-729,003	58,070
4430	0,000	1,396	-20,050	-3,078	-745,482	57,791
4431	0,000	1,698	-19,380	-2,999	-763,626	57,602
4435	0,000	0,791	-21,323	-3,223	-714,282	58,371
4445	0,000	2,000	-18,825	-2,921	-785,108	57,360
4446	0,000	2,286	-18,596	-2,853	-805,686	57,402
4447	0,000	2,571	-18,864	-2,793	-827,234	57,255
4448	0,000	2,857	-19,809	-2,746	-848,282	56,937
4449	0,863	2,000	-18,971	-2,806	-4,388	-661,854
4450	0,576	2,000	-18,846	-2,838	-3,247	-460,244
4451	0,288	2,000	-18,797	-2,887	-2,110	-235,013
4497	0,000	8,000	-74,373	-4,948	-1,090	44,792
4498	0,000	7,540	-70,867	-4,705	-1,088	44,813
4499	0,000	7,693	-72,041	-4,786	-1,089	44,800
4500	0,000	7,847	-73,208	-4,867	-1,089	44,795
4501	0,750	8,000	-19,730	-1,551	-28,886	-1,140
4502	0,500	8,000	-19,883	-1,534	-23,181	-1,223
4503	0,250	8,000	-32,164	-1,577	-11,759	-807,300
4507	0,000	7,387	-69,689	-4,623	-1,088	44,841

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4601	0,000	3,286	-22,784	-2,713	-882,038	56,207
4602	0,000	3,429	-24,220	-2,717	-893,671	55,898
4603	0,000	3,571	-25,871	-2,729	-905,335	55,523
4607	0,000	3,143	-21,571	-2,718	-870,156	56,472
4617	0,000	3,714	-27,719	-2,750	-917,699	55,069
4659	20,000	-12,667	0,000	0,000	-4,834	-747,344
4663	20,000	-12,056	0,000	0,000	-5,556	-858,616
4664	20,000	-11,444	0,000	0,000	-6,308	-974,463
4665	20,000	-10,833	0,000	0,000	-7,086	-1,094
4865	20,000	-10,222	0,000	0,000	-7,887	-1,218
4869	20,000	-9,611	0,000	0,000	-8,707	-1,344
4870	20,000	-9,000	0,000	0,000	-9,543	-1,472
4871	20,000	-8,389	0,000	0,000	-10,392	-1,603
4875	1,000	8,000	-20,543	-1,504	-31,516	-1,579
4879	2,500	8,000	-25,848	-1,483	-27,811	-1,980
4880	2,000	8,000	-25,812	-1,535	-34,467	-1,915
4881	1,500	8,000	-23,130	-1,537	-36,000	-1,797
4901	1,151	2,000	-19,076	-2,783	-5,580	-847,838
4902	2,071	2,000	-18,843	-2,685	-9,293	-1,356
4903	1,764	2,000	-19,004	-2,719	-8,097	-1,199
4904	1,458	2,000	-19,089	-2,752	-6,843	-1,030
4921	2,377	2,000	-18,622	-2,649	-10,414	-1,501
4925	3,356	2,000	-17,672	-2,528	-13,442	-1,904
4926	3,030	2,000	-18,015	-2,569	-12,528	-1,779
4927	2,703	2,000	-18,337	-2,610	-11,519	-1,646
5107	3,000	8,000	-22,792	-1,400	-23,165	-2,071
5111	4,500	8,000	-16,181	-1,208	-18,984	-2,450
5112	4,000	8,000	-17,892	-1,258	-19,346	-2,316
5113	3,500	8,000	-20,150	-1,323	-20,510	-2,186
5133	20,000	-7,778	0,000	0,000	-11,250	-1,735
5137	20,000	-7,167	0,000	0,000	-12,115	-1,867

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5138	20,000	-6,556	0,000	0,000	-12,983	-2,001
5139	20,000	-5,944	0,000	0,000	-13,851	-2,134
5195	4,726	2,000	-16,192	-2,350	-16,391	-2,343
5196	4,378	2,000	-16,562	-2,396	-15,758	-2,242
5197	4,030	2,000	-16,939	-2,441	-15,054	-2,135
5201	3,683	2,000	-17,319	-2,486	-14,266	-2,020
5221	5,073	2,000	-15,831	-2,304	-16,961	-2,436
5222	6,184	2,000	-14,734	-2,155	-18,470	-2,698
5223	5,814	2,000	-15,092	-2,205	-18,011	-2,617
5224	5,444	2,000	-15,457	-2,255	-17,511	-2,530
5317	6,554	2,000	-14,382	-2,104	-18,894	-2,774
5318	7,737	2,000	-13,273	-1,939	-20,067	-2,987
5319	7,343	2,000	-13,643	-1,994	-19,702	-2,921
5320	6,949	2,000	-14,012	-2,049	-19,313	-2,850
5327	20,000	-5,333	0,000	0,000	-14,718	-2,266
5331	20,000	-4,722	0,000	0,000	-15,580	-2,398
5332	20,000	-4,111	0,000	0,000	-16,435	-2,528
5333	20,000	-3,500	0,000	0,000	-17,281	-2,656
5337	5,000	8,000	-15,099	-1,175	-18,990	-2,581
5341	6,875	8,000	-11,123	-1,033	-20,199	-3,004
5342	6,250	8,000	-12,347	-1,083	-19,529	-2,868
5343	5,625	8,000	-13,910	-1,142	-18,919	-2,721
5363	8,132	2,000	-12,902	-1,882	-20,409	-3,048
5367	9,392	2,000	-11,690	-1,698	-21,368	-3,217
5368	8,972	2,000	-12,099	-1,760	-21,069	-3,165
5369	8,552	2,000	-12,503	-1,822	-20,750	-3,109
5527	7,500	8,000	-9,623	-964,235	-20,797	-3,125
5528	9,375	8,000	-7,863	-875,953	-22,821	-3,448
5529	8,750	8,000	-8,732	-906,273	-22,175	-3,355
5530	8,125	8,000	-9,235	-927,592	-21,617	-3,249
5537	20,000	-2,889	0,000	0,000	-18,115	-2,783

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5541	20,000	-2,278	0,000	0,000	-18,936	-2,907
5542	20,000	-1,667	0,000	0,000	-19,743	-3,028
5543	20,000	-1,056	0,000	0,000	-20,533	-3,146
5621	9,812	2,000	-11,275	-1,636	-21,647	-3,264
5622	11,154	2,000	-9,908	-1,432	-22,415	-3,394
5623	10,706	2,000	-10,371	-1,501	-22,179	-3,354
5624	10,259	2,000	-10,826	-1,569	-21,924	-3,311
5641	11,601	2,000	-9,440	-1,363	-22,632	-3,429
5645	13,030	2,000	-7,906	-1,139	-23,205	-3,523
5646	12,554	2,000	-8,423	-1,214	-23,033	-3,495
5647	12,077	2,000	-8,934	-1,289	-22,843	-3,464
5657	10,000	8,000	-7,597	-843,273	-23,467	-3,530
5661	11,875	8,000	-6,041	-734,916	-24,725	-3,726
5662	11,250	8,000	-6,608	-768,148	-24,216	-3,669
5663	10,625	8,000	-7,414	-807,797	-23,827	-3,603
5693	20,000	-0,444	0,000	0,000	-21,307	-3,261
5697	20,000	0,167	0,000	0,000	-22,062	-3,373
5698	20,000	0,778	0,000	0,000	-22,800	-3,481
5699	20,000	1,389	0,000	0,000	-23,519	-3,586
5735	15,029	2,000	-5,690	-818,494	-23,746	-3,611
5736	14,521	2,000	-6,259	-900,549	-23,634	-3,593
5737	14,014	2,000	-6,823	-982,175	-23,505	-3,572
5741	13,507	2,000	-7,384	-1,063	-23,359	-3,548
5751	15,536	2,000	-5,119	-736,048	-23,844	-3,627
5755	17,157	2,000	-3,275	-470,450	-24,073	-3,664
5756	16,617	2,000	-3,892	-559,304	-24,010	-3,654
5757	16,077	2,000	-4,507	-647,852	-23,934	-3,642
5787	12,500	8,000	-6,128	-685,799	-25,120	-3,774
5788	14,375	8,000	-4,580	-547,678	-25,719	-3,890
5789	13,750	8,000	-4,976	-599,638	-25,447	-3,858
5790	13,125	8,000	-5,927	-642,681	-25,211	-3,821

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5797	20,000	2,000	0,000	0,000	-24,221	-3,687
5798	19,424	2,000	-665,487	-95,480	-24,215	-3,686
5799	18,849	2,000	-1,330	-190,902	-24,197	-3,684
5800	18,273	2,000	-1,994	-286,208	-24,167	-3,679
5801	20,000	2,500	0,000	0,000	-24,471	-3,725
5802	20,000	3,000	0,000	0,000	-24,715	-3,762
5803	20,000	3,500	0,000	0,000	-24,951	-3,796
5813	17,698	2,000	-2,656	-381,341	-24,125	-3,672
5833	15,000	8,000	-4,263	-486,792	-25,926	-3,918
5841	20,000	4,000	0,000	0,000	-25,182	-3,828
5846	17,500	8,000	-2,045	-255,594	-26,349	-3,992
5847	16,875	8,000	-2,266	-317,524	-26,144	-3,980
5848	16,250	8,000	-3,366	-375,553	-25,990	-3,963
5849	15,625	8,000	-4,143	-432,761	-25,960	-3,943
5862	20,000	4,500	0,000	0,000	-25,407	-3,859
5866	20,000	5,000	0,000	0,000	-25,626	-3,889
5867	20,000	5,500	0,000	0,000	-25,834	-3,916
5871	20,000	6,000	0,000	0,000	-26,023	-3,943
5878	20,000	8,000	0,000	0,000	-26,392	-4,015
5882	20,000	7,000	0,000	0,000	-26,392	-3,992
5883	20,000	7,500	0,000	0,000	-26,413	-4,009
5884	19,375	8,000	-581,281	-67,381	-26,441	-4,014
5885	18,125	8,000	-1,750	-192,652	-26,352	-4,003
5886	20,000	6,500	0,000	0,000	-26,233	-3,967

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011



12. Results for phase 7

Table [16] Table of deformations phase no: 7

Node No.	x-coord.	y-coord.	dUx [10⁻⁶ m]	Ux [10⁻³ m]	dUy [10⁻⁶ m]	Uy [10⁻³ m]
1	-20,000	-18,333	0,000	0,000	530,093	79,013
2	-20,000	-18,889	0,000	0,000	281,440	41,962
3	-20,000	-19,444	0,000	0,000	103,274	15,405
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	2,145	319,662
18	-20,000	-16,667	0,000	0,000	1,656	246,842
19	-20,000	-17,222	0,000	0,000	1,222	182,068
26	-20,000	-17,778	0,000	0,000	844,933	125,923
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
43	-15,294	-20,000	0,000	0,000	0,000	0,000
47	-14,706	-20,000	0,000	0,000	0,000	0,000
48	-14,118	-20,000	0,000	0,000	0,000	0,000
49	-13,529	-20,000	0,000	0,000	0,000	0,000
103	-20,000	-15,556	0,000	0,000	2,684	399,960
107	-20,000	-13,889	0,000	0,000	4,563	680,281
108	-20,000	-14,444	0,000	0,000	3,896	580,797
109	-20,000	-15,000	0,000	0,000	3,268	487,183
129	-20,000	-13,333	0,000	0,000	5,265	785,129
133	-20,000	-11,667	0,000	0,000	7,551	1,127
134	-20,000	-12,222	0,000	0,000	6,762	1,009

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
135	-20,000	-12,778	0,000	0,000	5,999	894,851
151	-12,941	-20,000	0,000	0,000	0,000	0,000
155	-12,353	-20,000	0,000	0,000	0,000	0,000
156	-11,765	-20,000	0,000	0,000	0,000	0,000
157	-11,176	-20,000	0,000	0,000	0,000	0,000
183	-10,588	-20,000	0,000	0,000	0,000	0,000
187	-10,000	-20,000	0,000	0,000	0,000	0,000
188	-9,412	-20,000	0,000	0,000	0,000	0,000
189	-8,824	-20,000	0,000	0,000	0,000	0,000
289	-20,000	-11,111	0,000	0,000	8,363	1,249
290	-20,000	-9,444	0,000	0,000	10,903	1,629
291	-20,000	-10,000	0,000	0,000	10,042	1,500
292	-20,000	-10,556	0,000	0,000	9,194	1,373
337	-20,000	-8,889	0,000	0,000	11,775	1,760
341	-20,000	-7,222	0,000	0,000	14,425	2,159
342	-20,000	-7,778	0,000	0,000	13,538	2,026
343	-20,000	-8,333	0,000	0,000	12,654	1,893
375	-8,235	-20,000	0,000	0,000	0,000	0,000
379	-7,647	-20,000	0,000	0,000	0,000	0,000
380	-7,059	-20,000	0,000	0,000	0,000	0,000
381	-6,471	-20,000	0,000	0,000	0,000	0,000
407	-20,000	-6,667	0,000	0,000	15,311	2,293
411	-20,000	-5,000	0,000	0,000	17,943	2,691
412	-20,000	-5,556	0,000	0,000	17,073	2,559
413	-20,000	-6,111	0,000	0,000	16,195	2,427
423	-20,000	-4,444	0,000	0,000	18,804	2,822
427	-20,000	-2,778	0,000	0,000	21,308	3,202
428	-20,000	-3,333	0,000	0,000	20,488	3,078
429	-20,000	-3,889	0,000	0,000	19,653	2,951
436	-20,000	-2,222	0,000	0,000	22,111	3,325
437	-20,000	-0,556	0,000	0,000	24,413	3,676

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
438	-20,000	-1,111	0,000	0,000	23,664	3,562
439	-20,000	-1,667	0,000	0,000	22,897	3,444
507	-5,882	-20,000	0,000	0,000	0,000	0,000
511	-5,294	-20,000	0,000	0,000	0,000	0,000
512	-4,706	-20,000	0,000	0,000	0,000	0,000
513	-4,118	-20,000	0,000	0,000	0,000	0,000
679	-20,000	1,500	0,000	0,000	27,026	4,074
680	-20,000	1,000	0,000	0,000	26,412	3,980
681	-20,000	0,500	0,000	0,000	25,784	3,885
685	-20,000	0,000	0,000	0,000	25,143	3,787
689	-18,273	2,000	-1,868	-283,602	27,577	4,158
690	-18,849	2,000	-1,247	-189,262	27,606	4,162
691	-19,424	2,000	-623,620	-94,688	27,623	4,164
695	-20,000	2,000	0,000	0,000	27,628	4,165
699	-20,000	3,500	0,000	0,000	38,991	5,872
700	-20,000	3,000	0,000	0,000	35,204	5,304
701	-20,000	2,500	0,000	0,000	31,424	4,735
711	-20,000	4,000	0,000	0,000	42,845	6,439
712	-18,249	4,000	-1,686	-259,492	42,984	6,431
713	-18,833	4,000	-1,134	-173,465	42,967	6,436
714	-19,416	4,000	-591,879	-86,959	43,021	6,439
769	-17,698	2,000	-2,484	-377,594	27,537	4,152
770	-16,077	2,000	-4,197	-639,498	27,372	4,126
771	-16,617	2,000	-3,631	-552,753	27,438	4,136
772	-17,157	2,000	-3,059	-465,421	27,492	4,145
795	-17,665	4,000	-2,088	-344,725	42,727	6,424
796	-16,095	4,000	-3,777	-569,777	42,714	6,395
797	-16,619	4,000	-3,395	-495,968	42,797	6,407
798	-17,142	4,000	-2,895	-420,970	42,716	6,416
991	-3,529	-20,000	0,000	0,000	0,000	0,000
995	-2,941	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
996	-2,353	-20,000	0,000	0,000	0,000	0,000
997	-1,765	-20,000	0,000	0,000	0,000	0,000
1119	-15,536	2,000	-4,756	-725,572	27,304	4,113
1123	-14,014	2,000	-6,306	-963,798	27,013	4,064
1124	-14,521	2,000	-5,793	-885,144	27,128	4,082
1125	-15,029	2,000	-5,274	-805,714	27,221	4,099
1129	-15,572	4,000	-4,373	-642,598	42,434	6,381
1130	-15,103	4,000	-4,931	-706,774	42,587	6,367
1131	-14,634	4,000	-5,253	-769,370	42,615	6,350
1132	-14,165	4,000	-5,577	-830,577	42,517	6,332
1161	-13,696	4,000	-5,909	-890,600	42,409	6,311
1162	-12,435	4,000	-6,838	-1,043	41,929	6,241
1163	-12,855	4,000	-6,514	-993,955	42,069	6,267
1164	-13,276	4,000	-6,190	-943,080	42,233	6,290
1255	-1,176	-20,000	0,000	0,000	0,000	0,000
1259	-0,588	-20,000	0,000	0,000	0,000	0,000
1260	0,000	-20,000	0,000	0,000	0,000	0,000
1261	0,588	-20,000	0,000	0,000	0,000	0,000
1373	-13,507	2,000	-6,808	-1,042	26,890	4,042
1377	-12,077	2,000	-8,192	-1,256	26,382	3,965
1378	-12,554	2,000	-7,734	-1,185	26,571	3,994
1379	-13,030	2,000	-7,275	-1,114	26,733	4,019
1389	-12,015	4,000	-7,160	-1,092	41,625	6,212
1393	-11,638	4,000	-7,372	-1,134	41,547	6,185
1394	-11,261	4,000	-7,649	-1,174	41,339	6,155
1395	-10,884	4,000	-7,918	-1,213	41,145	6,122
1605	1,176	-20,000	0,000	0,000	0,000	0,000
1609	1,765	-20,000	0,000	0,000	0,000	0,000
1610	2,353	-20,000	0,000	0,000	0,000	0,000
1611	2,941	-20,000	0,000	0,000	0,000	0,000
1695	-11,601	2,000	-8,636	-1,326	26,180	3,932

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1696	-10,259	2,000	-9,861	-1,518	25,438	3,819
1697	-10,706	2,000	-9,457	-1,455	25,709	3,860
1698	-11,154	2,000	-9,045	-1,391	25,949	3,898
1727	-10,508	4,000	-8,146	-1,251	40,801	6,086
1731	-9,494	4,000	-8,762	-1,346	40,184	5,976
1732	-9,832	4,000	-8,546	-1,316	40,433	6,015
1733	-10,170	4,000	-8,323	-1,284	40,685	6,052
1769	3,529	-20,000	0,000	0,000	0,000	0,000
1773	4,118	-20,000	0,000	0,000	0,000	0,000
1774	4,706	-20,000	0,000	0,000	0,000	0,000
1775	5,294	-20,000	0,000	0,000	0,000	0,000
1943	-9,812	2,000	-10,254	-1,581	25,144	3,772
1947	-8,552	2,000	-11,344	-1,754	24,122	3,615
1948	-8,972	2,000	-10,983	-1,697	24,495	3,672
1949	-9,392	2,000	-10,618	-1,639	24,831	3,725
1953	-9,157	4,000	-8,918	-1,375	39,807	5,932
1954	-8,854	4,000	-9,077	-1,401	39,651	5,892
1955	-8,551	4,000	-9,253	-1,425	39,355	5,849
1956	-8,248	4,000	-9,422	-1,448	39,066	5,802
1963	-7,946	4,000	-9,539	-1,471	38,791	5,753
1967	-7,132	4,000	-9,885	-1,526	37,870	5,604
1968	-7,403	4,000	-9,780	-1,508	38,160	5,657
1969	-7,674	4,000	-9,645	-1,490	38,470	5,706
2175	5,882	-20,000	0,000	0,000	0,000	0,000
2176	6,471	-20,000	0,000	0,000	0,000	0,000
2177	7,059	-20,000	0,000	0,000	0,000	0,000
2178	7,647	-20,000	0,000	0,000	0,000	0,000
2229	-6,860	4,000	-9,910	-1,543	37,567	5,548
2230	-6,617	4,000	-9,965	-1,558	37,155	5,497
2231	-6,374	4,000	-10,068	-1,572	36,769	5,442
2232	-6,131	4,000	-10,165	-1,585	36,413	5,384

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
2261	-5,888	4,000	-10,202	-1,598	36,063	5,323
2262	-5,234	4,000	-10,441	-1,632	34,857	5,144
2263	-5,452	4,000	-10,388	-1,621	35,243	5,206
2264	-5,670	4,000	-10,294	-1,610	35,591	5,266
2305	-5,016	4,000	-10,507	-1,643	34,414	5,079
2309	-4,820	4,000	-10,575	-1,652	34,033	5,017
2310	-4,625	4,000	-10,618	-1,661	33,614	4,954
2311	-4,429	4,000	-10,693	-1,670	33,136	4,887
2439	-8,132	2,000	-11,693	-1,811	23,728	3,552
2440	-7,737	2,000	-12,019	-1,865	23,304	3,488
2441	-7,343	2,000	-12,351	-1,917	22,855	3,417
2442	-6,949	2,000	-12,677	-1,970	22,362	3,341
2475	8,235	-20,000	0,000	0,000	0,000	0,000
2479	8,824	-20,000	0,000	0,000	0,000	0,000
2480	9,412	-20,000	0,000	0,000	0,000	0,000
2481	10,000	-20,000	0,000	0,000	0,000	0,000
2565	-6,554	2,000	-12,996	-2,023	21,823	3,258
2569	-5,444	2,000	-13,894	-2,174	20,046	2,982
2570	-5,814	2,000	-13,595	-2,123	20,685	3,082
2571	-6,184	2,000	-13,294	-2,073	21,277	3,173
2743	-4,234	4,000	-10,832	-1,679	32,744	4,818
2747	-3,709	4,000	-11,015	-1,703	31,470	4,616
2748	-3,884	4,000	-10,938	-1,695	31,914	4,686
2749	-4,059	4,000	-10,888	-1,687	32,336	4,753
2797	-3,534	4,000	-11,119	-1,710	31,007	4,542
2801	-3,377	4,000	-11,216	-1,717	30,617	4,474
2802	-3,220	4,000	-11,297	-1,724	30,204	4,403
2803	-3,063	4,000	-11,370	-1,731	29,766	4,328
2897	-5,073	2,000	-14,192	-2,225	19,356	2,874
2898	-4,726	2,000	-14,472	-2,274	18,657	2,765
2899	-4,378	2,000	-14,752	-2,324	17,908	2,646

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
2900	-4,030	2,000	-15,033	-2,375	17,104	2,517
2997	10,588	-20,000	0,000	0,000	0,000	0,000
3001	11,176	-20,000	0,000	0,000	0,000	0,000
3002	11,765	-20,000	0,000	0,000	0,000	0,000
3003	12,353	-20,000	0,000	0,000	0,000	0,000
3055	-2,906	4,000	-11,478	-1,738	29,316	4,251
3056	-2,765	4,000	-11,623	-1,744	28,871	4,178
3057	-2,624	4,000	-11,760	-1,750	28,488	4,102
3058	-2,483	4,000	-11,889	-1,756	28,080	4,022
3065	-2,343	4,000	-12,041	-1,762	27,652	3,939
3066	-2,217	4,000	-12,205	-1,768	27,278	3,861
3067	-2,091	4,000	-12,394	-1,774	26,908	3,779
3068	-1,964	4,000	-12,618	-1,780	26,577	3,692
3075	0,000	-3,924	-24,266	-3,604	-853,386	-54,614
3076	0,000	-3,849	-24,262	-3,604	-853,721	-54,650
3077	0,000	-3,773	-24,258	-3,603	-854,145	-54,696
3081	0,000	-3,698	-24,254	-3,602	-854,635	-54,749
3082	0,000	-3,608	-24,249	-3,601	-855,260	-54,816
3083	0,000	-3,518	-24,244	-3,600	-855,924	-54,887
3084	0,000	-3,428	-24,238	-3,599	-856,637	-54,962
3107	0,000	-4,000	-24,270	-3,605	-852,843	-54,555
3149	0,000	-3,232	-24,223	-3,596	-858,342	-55,141
3150	0,000	-3,125	-24,213	-3,595	-859,341	-55,246
3151	0,000	-3,018	-24,202	-3,593	-860,387	-55,354
3155	0,000	-3,338	-24,232	-3,598	-857,395	-55,042
3171	0,000	-2,911	-24,189	-3,590	-861,476	-55,466
3172	0,000	-2,784	-24,170	-3,587	-862,826	-55,605
3173	0,000	-2,657	-24,149	-3,584	-864,230	-55,748
3174	0,000	-2,530	-24,125	-3,580	-865,688	-55,896
3213	12,941	-20,000	0,000	0,000	0,000	0,000
3217	13,529	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3218	14,118	-20,000	0,000	0,000	0,000	0,000
3219	14,706	-20,000	0,000	0,000	0,000	0,000
3261	-3,683	2,000	-15,316	-2,427	16,242	2,378
3262	-2,703	2,000	-16,136	-2,582	13,462	1,914
3263	-3,030	2,000	-15,857	-2,529	14,451	2,082
3264	-3,356	2,000	-15,585	-2,477	15,376	2,236
3325	-1,838	4,000	-12,806	-1,786	26,298	3,602
3326	-1,499	4,000	-13,413	-1,804	25,535	3,331
3327	-1,612	4,000	-13,217	-1,798	25,763	3,426
3328	-1,725	4,000	-13,014	-1,791	25,991	3,516
3341	-1,386	4,000	-13,645	-1,812	25,317	3,230
3345	-1,285	4,000	-13,882	-1,819	25,163	3,135
3346	-1,183	4,000	-14,146	-1,827	25,080	3,034
3347	-1,082	4,000	-14,405	-1,836	25,085	2,928
3357	15,294	-20,000	0,000	0,000	0,000	0,000
3361	15,882	-20,000	0,000	0,000	0,000	0,000
3362	16,471	-20,000	0,000	0,000	0,000	0,000
3363	17,059	-20,000	0,000	0,000	0,000	0,000
3373	17,647	-20,000	0,000	0,000	0,000	0,000
3377	18,235	-20,000	0,000	0,000	0,000	0,000
3378	18,824	-20,000	0,000	0,000	0,000	0,000
3379	19,412	-20,000	0,000	0,000	0,000	0,000
3380	20,000	-20,000	0,000	0,000	0,000	0,000
3381	20,000	-19,389	0,000	0,000	-34,281	-5,335
3382	20,000	-18,778	0,000	0,000	-151,018	-23,358
3383	20,000	-18,167	0,000	0,000	-345,188	-53,275
3605	0,000	-2,252	-24,060	-3,569	-869,051	-56,234
3606	0,000	-2,101	-24,017	-3,562	-870,973	-56,425
3607	0,000	-1,950	-23,968	-3,554	-872,957	-56,621
3611	0,000	-2,403	-24,097	-3,575	-867,196	-56,048
3627	0,000	-1,799	-23,914	-3,546	-875,004	-56,821

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3628	0,000	-1,619	-23,841	-3,534	-877,516	-57,064
3629	0,000	-1,439	-23,759	-3,522	-880,113	-57,312
3630	0,000	-1,260	-23,666	-3,508	-882,794	-57,564
3643	-2,377	2,000	-16,425	-2,636	12,402	1,732
3647	-2,071	2,000	-16,714	-2,687	11,324	1,546
3648	-1,764	2,000	-17,031	-2,737	10,154	1,345
3649	-1,458	2,000	-17,382	-2,786	8,863	1,128
3771	-0,981	4,000	-14,627	-1,846	25,189	2,815
3775	-0,708	4,000	-15,134	-1,881	25,842	2,473
3776	-0,799	4,000	-14,975	-1,868	25,523	2,594
3777	-0,890	4,000	-14,799	-1,856	25,312	2,708
3841	-0,618	4,000	-15,246	-1,896	26,269	2,344
3845	-0,536	4,000	-15,328	-1,911	26,834	2,219
3846	-0,455	4,000	-15,506	-1,927	27,472	2,085
3847	-0,373	4,000	-15,798	-1,947	28,785	1,939
3851	20,000	-17,556	0,000	0,000	-611,855	-94,311
3855	20,000	-16,944	0,000	0,000	-946,187	-145,715
3856	20,000	-16,333	0,000	0,000	-1,343	-206,760
3857	20,000	-15,722	0,000	0,000	-1,799	-276,735
3931	0,000	-0,866	-23,423	-3,472	-888,952	-58,130
3932	0,000	-0,652	-23,266	-3,449	-892,470	-58,444
3933	0,000	-0,439	-23,087	-3,423	-896,115	-58,760
3937	0,000	-1,080	-23,562	-3,492	-885,557	-57,821
4149	-1,151	2,000	-17,743	-2,830	7,382	894,218
4150	-0,288	2,000	-18,723	-2,912	1,858	175,224
4151	-0,576	2,000	-18,358	-2,892	3,991	417,099
4152	-0,863	2,000	-18,037	-2,865	5,739	661,238
4159	20,000	-15,111	0,000	0,000	-2,309	-354,954
4163	20,000	-14,500	0,000	0,000	-2,868	-440,751
4164	20,000	-13,889	0,000	0,000	-3,472	-533,484
4165	20,000	-13,278	0,000	0,000	-4,117	-632,526

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4169	0,000	4,390	-34,247	-2,748	-1,037	-66,429
4170	0,000	4,474	-35,645	-2,768	-1,041	-66,751
4171	0,000	4,557	-37,075	-2,789	-1,044	-67,065
4175	0,000	4,307	-32,888	-2,730	-1,034	-66,100
4179	0,000	4,077	-29,384	-2,688	-1,027	-65,155
4180	0,000	4,153	-30,509	-2,700	-1,028	-65,477
4181	0,000	4,230	-31,679	-2,714	-1,031	-65,792
4201	-0,292	4,000	-16,032	-1,972	32,543	1,781
4205	-0,073	4,000	-24,938	-2,389	11,727	723,511
4206	-0,146	4,000	-14,356	-2,030	21,777	1,202
4207	-0,219	4,000	-10,951	-1,910	30,832	1,563
4211	0,000	3,786	-25,523	-2,657	-1,016	-64,015
4212	0,000	3,857	-26,408	-2,662	-1,019	-64,263
4213	0,000	3,929	-27,336	-2,668	-1,022	-64,537
4214	0,000	4,000	-28,305	-2,677	-1,025	-64,824
4317	0,000	0,029	-22,606	-3,358	-904,561	-59,452
4318	0,000	0,283	-22,285	-3,316	-909,462	-59,825
4319	0,000	0,537	-21,913	-3,269	-914,613	-60,191
4323	0,000	-0,225	-22,883	-3,395	-899,891	-59,076
4345	0,000	4,732	-40,154	-2,836	-1,052	-67,704
4346	0,000	4,823	-41,801	-2,862	-1,055	-68,022
4347	0,000	4,914	-43,467	-2,890	-1,059	-68,334
4351	0,000	4,641	-38,535	-2,811	-1,047	-67,372
4361	0,000	5,005	-45,147	-2,918	-1,064	-68,640
4362	0,000	5,105	-46,988	-2,949	-1,069	-68,968
4363	0,000	5,204	-48,833	-2,981	-1,074	-69,288
4364	0,000	5,304	-50,676	-3,014	-1,077	-69,600
4371	0,000	6,438	-70,801	-3,416	-1,101	-72,051
4372	0,000	6,567	-72,935	-3,463	-1,103	-72,201
4373	0,000	6,696	-75,039	-3,510	-1,105	-72,330
4377	0,000	6,825	-77,116	-3,557	-1,106	-72,436

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4378	0,000	6,965	-79,354	-3,608	-1,108	-72,527
4379	0,000	7,106	-81,567	-3,659	-1,109	-72,597
4380	0,000	7,246	-83,760	-3,710	-1,110	-72,646
4387	0,000	5,511	-54,512	-3,085	-1,083	-70,209
4388	0,000	5,620	-56,496	-3,123	-1,085	-70,497
4389	0,000	5,728	-58,461	-3,161	-1,087	-70,766
4393	0,000	5,403	-52,515	-3,048	-1,080	-69,899
4403	0,000	5,955	-62,506	-3,241	-1,092	-71,263
4404	0,000	6,073	-64,578	-3,284	-1,094	-71,489
4405	0,000	6,191	-66,621	-3,326	-1,096	-71,693
4409	0,000	6,309	-68,636	-3,369	-1,099	-71,877
4419	0,000	5,836	-60,408	-3,199	-1,090	-71,015
4429	0,000	1,093	-20,909	-3,150	-926,982	-60,943
4430	0,000	1,396	-20,260	-3,077	-934,712	-61,301
4431	0,000	1,698	-19,579	-3,001	-943,282	-61,547
4435	0,000	0,791	-21,487	-3,218	-920,052	-60,542
4445	0,000	2,000	-18,953	-2,924	-953,543	-61,813
4446	0,000	2,286	-18,549	-2,856	-964,000	-61,765
4447	0,000	2,571	-18,487	-2,792	-976,539	-61,880
4448	0,000	2,857	-18,924	-2,735	-988,070	-62,156
4449	0,863	2,000	-18,703	-2,804	-5,645	-757,549
4450	0,576	2,000	-18,744	-2,839	-4,258	-564,655
4451	0,288	2,000	-18,851	-2,889	-2,765	-347,269
4497	0,000	8,000	-95,362	-3,984	-1,111	-72,734
4498	0,000	7,540	-88,301	-3,817	-1,111	-72,708
4499	0,000	7,693	-90,657	-3,873	-1,111	-72,726
4500	0,000	7,847	-93,010	-3,929	-1,111	-72,734
4501	0,750	8,000	-21,968	-1,046	-13,240	-936,056
4502	0,500	8,000	-22,836	-1,040	-19,047	-873,146
4503	0,250	8,000	-16,874	-1,103	-15,479	-621,358
4507	0,000	7,387	-85,938	-3,761	-1,110	-72,678

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4601	0,000	3,286	-20,842	-2,671	-999,885	-62,801
4602	0,000	3,429	-21,896	-2,659	-1,004	-63,071
4603	0,000	3,571	-23,179	-2,653	-1,008	-63,399
4607	0,000	3,143	-20,007	-2,688	-996,455	-62,568
4617	0,000	3,714	-24,687	-2,654	-1,013	-63,796
4659	20,000	-12,667	0,000	0,000	-4,800	-737,267
4663	20,000	-12,056	0,000	0,000	-5,516	-847,119
4664	20,000	-11,444	0,000	0,000	-6,261	-961,508
4665	20,000	-10,833	0,000	0,000	-7,033	-1,080
4865	20,000	-10,222	0,000	0,000	-7,826	-1,202
4869	20,000	-9,611	0,000	0,000	-8,638	-1,326
4870	20,000	-9,000	0,000	0,000	-9,465	-1,453
4871	20,000	-8,389	0,000	0,000	-10,305	-1,582
4875	1,000	8,000	-18,628	-1,006	-20,536	-1,150
4879	2,500	8,000	-18,590	-1,014	-18,221	-1,770
4880	2,000	8,000	-19,254	-1,025	-19,363	-1,586
4881	1,500	8,000	-19,140	-1,023	-20,353	-1,385
4901	1,151	2,000	-18,658	-2,778	-6,972	-934,062
4902	2,071	2,000	-18,068	-2,679	-10,594	-1,413
4903	1,764	2,000	-18,315	-2,713	-9,498	-1,265
4904	1,458	2,000	-18,520	-2,746	-8,282	-1,106
4921	2,377	2,000	-17,796	-2,643	-11,577	-1,552
4925	3,356	2,000	-16,886	-2,523	-14,103	-1,936
4926	3,030	2,000	-17,189	-2,564	-13,351	-1,817
4927	2,703	2,000	-17,494	-2,604	-12,514	-1,689
5107	3,000	8,000	-16,338	-981,619	-17,369	-1,946
5111	4,500	8,000	-12,653	-930,822	-18,399	-2,438
5112	4,000	8,000	-13,057	-942,281	-18,033	-2,284
5113	3,500	8,000	-13,808	-956,962	-17,581	-2,120
5133	20,000	-7,778	0,000	0,000	-11,153	-1,713
5137	20,000	-7,167	0,000	0,000	-12,007	-1,844

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5138	20,000	-6,556	0,000	0,000	-12,864	-1,975
5139	20,000	-5,944	0,000	0,000	-13,721	-2,107
5195	4,726	2,000	-15,673	-2,345	-16,598	-2,362
5196	4,378	2,000	-15,974	-2,391	-16,044	-2,265
5197	4,030	2,000	-16,279	-2,437	-15,442	-2,160
5201	3,683	2,000	-16,589	-2,482	-14,783	-2,049
5221	5,073	2,000	-15,374	-2,298	-17,111	-2,454
5222	6,184	2,000	-14,419	-2,145	-18,532	-2,710
5223	5,814	2,000	-14,738	-2,196	-18,091	-2,631
5224	5,444	2,000	-15,056	-2,247	-17,619	-2,545
5317	6,554	2,000	-14,096	-2,093	-18,945	-2,784
5318	7,737	2,000	-13,038	-1,924	-20,098	-2,990
5319	7,343	2,000	-13,395	-1,981	-19,739	-2,926
5320	6,949	2,000	-13,748	-2,037	-19,356	-2,858
5327	20,000	-5,333	0,000	0,000	-14,576	-2,238
5331	20,000	-4,722	0,000	0,000	-15,425	-2,368
5332	20,000	-4,111	0,000	0,000	-16,266	-2,497
5333	20,000	-3,500	0,000	0,000	-17,098	-2,624
5337	5,000	8,000	-11,667	-919,406	-18,748	-2,582
5341	6,875	8,000	-9,642	-883,320	-20,793	-3,032
5342	6,250	8,000	-10,208	-896,064	-20,146	-2,896
5343	5,625	8,000	-10,832	-908,192	-19,451	-2,747
5363	8,132	2,000	-12,674	-1,866	-20,432	-3,049
5367	9,392	2,000	-11,476	-1,680	-21,356	-3,209
5368	8,972	2,000	-11,881	-1,743	-21,071	-3,160
5369	8,552	2,000	-12,281	-1,805	-20,764	-3,107
5527	7,500	8,000	-9,159	-871,740	-21,457	-3,154
5528	9,375	8,000	-7,933	-816,387	-23,088	-3,445
5529	8,750	8,000	-8,298	-837,385	-22,597	-3,359
5530	8,125	8,000	-8,708	-856,328	-22,027	-3,261
5537	20,000	-2,889	0,000	0,000	-17,918	-2,749

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5541	20,000	-2,278	0,000	0,000	-18,724	-2,871
5542	20,000	-1,667	0,000	0,000	-19,516	-2,991
5543	20,000	-1,056	0,000	0,000	-20,291	-3,108
5621	9,812	2,000	-11,064	-1,617	-21,619	-3,254
5622	11,154	2,000	-9,711	-1,414	-22,325	-3,375
5623	10,706	2,000	-10,168	-1,482	-22,111	-3,338
5624	10,259	2,000	-10,619	-1,550	-21,876	-3,298
5641	11,601	2,000	-9,249	-1,345	-22,520	-3,408
5645	13,030	2,000	-7,743	-1,123	-23,024	-3,494
5646	12,554	2,000	-8,249	-1,197	-22,874	-3,468
5647	12,077	2,000	-8,751	-1,271	-22,707	-3,440
5657	10,000	8,000	-7,498	-791,032	-23,531	-3,521
5661	11,875	8,000	-6,676	-705,863	-24,609	-3,702
5662	11,250	8,000	-6,929	-735,839	-24,362	-3,651
5663	10,625	8,000	-7,094	-761,267	-23,998	-3,591
5693	20,000	-0,444	0,000	0,000	-21,050	-3,221
5697	20,000	0,167	0,000	0,000	-21,790	-3,331
5698	20,000	0,778	0,000	0,000	-22,513	-3,438
5699	20,000	1,389	0,000	0,000	-23,218	-3,541
5735	15,029	2,000	-5,578	-806,126	-23,493	-3,573
5736	14,521	2,000	-6,133	-887,098	-23,395	-3,557
5737	14,014	2,000	-6,684	-967,698	-23,284	-3,538
5741	13,507	2,000	-7,232	-1,048	-23,158	-3,517
5751	15,536	2,000	-5,019	-724,812	-23,579	-3,588
5755	17,157	2,000	-3,213	-463,096	-23,781	-3,621
5756	16,617	2,000	-3,818	-550,618	-23,725	-3,612
5757	16,077	2,000	-4,421	-637,871	-23,658	-3,601
5787	12,500	8,000	-5,868	-656,670	-24,876	-3,745
5788	14,375	8,000	-5,000	-523,621	-25,401	-3,855
5789	13,750	8,000	-5,495	-574,444	-25,255	-3,824
5790	13,125	8,000	-5,869	-612,829	-25,131	-3,789

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5797	20,000	2,000	0,000	0,000	-23,905	-3,641
5798	19,424	2,000	-652,052	-93,965	-23,900	-3,640
5799	18,849	2,000	-1,304	-187,878	-23,886	-3,638
5800	18,273	2,000	-1,955	-281,690	-23,861	-3,634
5801	20,000	2,500	0,000	0,000	-24,150	-3,679
5802	20,000	3,000	0,000	0,000	-24,386	-3,715
5803	20,000	3,500	0,000	0,000	-24,614	-3,749
5813	17,698	2,000	-2,605	-375,348	-23,825	-3,628
5833	15,000	8,000	-4,921	-476,641	-25,407	-3,882
5841	20,000	4,000	0,000	0,000	-24,833	-3,781
5846	17,500	8,000	-2,169	-248,374	-26,195	-3,945
5847	16,875	8,000	-2,318	-313,324	-26,027	-3,936
5848	16,250	8,000	-2,846	-364,737	-25,884	-3,921
5849	15,625	8,000	-3,076	-421,808	-25,534	-3,903
5862	20,000	4,500	0,000	0,000	-25,042	-3,811
5866	20,000	5,000	0,000	0,000	-25,242	-3,840
5867	20,000	5,500	0,000	0,000	-25,431	-3,867
5871	20,000	6,000	0,000	0,000	-25,608	-3,893
5878	20,000	8,000	0,000	0,000	-25,934	-3,966
5882	20,000	7,000	0,000	0,000	-25,923	-3,940
5883	20,000	7,500	0,000	0,000	-25,954	-3,959
5884	19,375	8,000	-951,353	-69,444	-26,044	-3,966
5885	18,125	8,000	-1,973	-183,749	-26,125	-3,957
5886	20,000	6,500	0,000	0,000	-25,747	-3,916

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

13. Results for phase 8

Table [17] Table of deformations phase no: 8

Node No.	x-coord.	y-coord.	dUx [10⁻³ m]	Ux [10⁻³ m]	dUy [10⁻³ m]	Uy [10⁻³ m]
1	-20,000	-18,333	0,000	0,000	6,148	98,793
2	-20,000	-18,889	0,000	0,000	2,474	39,980
3	-20,000	-19,444	0,000	0,000	381,775	6,318
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	34,790	553,606
18	-20,000	-16,667	0,000	0,000	25,697	409,708
19	-20,000	-17,222	0,000	0,000	17,842	285,076
26	-20,000	-17,778	0,000	0,000	11,299	180,969
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
43	-15,294	-20,000	0,000	0,000	0,000	0,000
47	-14,706	-20,000	0,000	0,000	0,000	0,000
48	-14,118	-20,000	0,000	0,000	0,000	0,000
49	-13,529	-20,000	0,000	0,000	0,000	0,000
103	-20,000	-15,556	0,000	0,000	45,055	715,621
107	-20,000	-13,889	0,000	0,000	82,303	1,300
108	-20,000	-14,444	0,000	0,000	68,864	1,090
109	-20,000	-15,000	0,000	0,000	56,431	894,703
129	-20,000	-13,333	0,000	0,000	96,700	1,525
133	-20,000	-11,667	0,000	0,000	145,224	2,278
134	-20,000	-12,222	0,000	0,000	128,200	2,015

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
135	-20,000	-12,778	0,000	0,000	112,013	1,763
151	-12,941	-20,000	0,000	0,000	0,000	0,000
155	-12,353	-20,000	0,000	0,000	0,000	0,000
156	-11,765	-20,000	0,000	0,000	0,000	0,000
157	-11,176	-20,000	0,000	0,000	0,000	0,000
183	-10,588	-20,000	0,000	0,000	0,000	0,000
187	-10,000	-20,000	0,000	0,000	0,000	0,000
188	-9,412	-20,000	0,000	0,000	0,000	0,000
189	-8,824	-20,000	0,000	0,000	0,000	0,000
289	-20,000	-11,111	0,000	0,000	163,048	2,553
290	-20,000	-9,444	0,000	0,000	220,978	3,442
291	-20,000	-10,000	0,000	0,000	200,958	3,136
292	-20,000	-10,556	0,000	0,000	181,637	2,839
337	-20,000	-8,889	0,000	0,000	241,664	3,757
341	-20,000	-7,222	0,000	0,000	307,385	4,754
342	-20,000	-7,778	0,000	0,000	284,901	4,414
343	-20,000	-8,333	0,000	0,000	262,982	4,082
375	-8,235	-20,000	0,000	0,000	0,000	0,000
379	-7,647	-20,000	0,000	0,000	0,000	0,000
380	-7,059	-20,000	0,000	0,000	0,000	0,000
381	-6,471	-20,000	0,000	0,000	0,000	0,000
407	-20,000	-6,667	0,000	0,000	330,400	5,101
411	-20,000	-5,000	0,000	0,000	402,251	6,179
412	-20,000	-5,556	0,000	0,000	377,872	5,814
413	-20,000	-6,111	0,000	0,000	353,908	5,455
423	-20,000	-4,444	0,000	0,000	427,001	6,549
427	-20,000	-2,778	0,000	0,000	503,010	7,678
428	-20,000	-3,333	0,000	0,000	477,431	7,299
429	-20,000	-3,889	0,000	0,000	452,077	6,922
436	-20,000	-2,222	0,000	0,000	528,759	8,058
437	-20,000	-0,556	0,000	0,000	606,411	9,201

Node	x-coord.	y-coord.	dUx	Ux	dUy	Uy
No.			[10 ⁻³ m]	[10 ⁻³ m]	[10 ⁻³ m]	[10 ⁻³ m]
438	-20,000	-1,111	0,000	0,000	580,523	8,821
439	-20,000	-1,667	0,000	0,000	554,617	8,440
507	-5,882	-20,000	0,000	0,000	0,000	0,000
511	-5,294	-20,000	0,000	0,000	0,000	0,000
512	-4,706	-20,000	0,000	0,000	0,000	0,000
513	-4,118	-20,000	0,000	0,000	0,000	0,000
679	-20,000	1,500	0,000	0,000	700,959	10,576
680	-20,000	1,000	0,000	0,000	678,212	10,248
681	-20,000	0,500	0,000	0,000	655,292	9,915
685	-20,000	0,000	0,000	0,000	632,213	9,578
689	-18,273	2,000	-77,242	-1,097	712,760	10,701
690	-18,849	2,000	-52,082	-740,879	718,361	10,805
691	-19,424	2,000	-26,314	-374,885	722,098	10,874
695	-20,000	2,000	0,000	0,000	723,558	10,900
699	-20,000	3,500	0,000	0,000	751,377	11,281
700	-20,000	3,000	0,000	0,000	741,130	11,145
701	-20,000	2,500	0,000	0,000	731,564	11,014
711	-20,000	4,000	0,000	0,000	759,814	11,411
712	-18,249	4,000	-77,393	-969,834	750,389	11,176
713	-18,833	4,000	-50,668	-661,411	757,074	11,301
714	-19,416	4,000	-25,608	-339,528	763,744	11,393
769	-17,698	2,000	-101,867	-1,443	705,472	10,565
770	-16,077	2,000	-168,632	-2,367	676,571	10,042
771	-16,617	2,000	-146,828	-2,067	687,524	10,237
772	-17,157	2,000	-124,567	-1,759	697,184	10,412
795	-17,665	4,000	-102,890	-1,260	739,353	11,018
796	-16,095	4,000	-149,597	-1,986	708,860	10,479
797	-16,619	4,000	-132,511	-1,746	720,348	10,677
798	-17,142	4,000	-116,462	-1,504	730,514	10,858
991	-3,529	-20,000	0,000	0,000	0,000	0,000
995	-2,941	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
996	-2,353	-20,000	0,000	0,000	0,000	0,000
997	-1,765	-20,000	0,000	0,000	0,000	0,000
1119	-15,536	2,000	-189,977	-2,660	664,487	9,829
1123	-14,014	2,000	-247,913	-3,448	625,807	9,153
1124	-14,521	2,000	-228,917	-3,191	639,384	9,390
1125	-15,029	2,000	-209,615	-2,928	652,303	9,616
1129	-15,572	4,000	-166,941	-2,222	696,528	10,265
1130	-15,103	4,000	-182,439	-2,431	684,944	10,062
1131	-14,634	4,000	-197,906	-2,637	672,755	9,848
1132	-14,165	4,000	-213,327	-2,840	660,028	9,625
1161	-13,696	4,000	-228,686	-3,041	646,807	9,393
1162	-12,435	4,000	-269,630	-3,570	609,053	8,730
1163	-12,855	4,000	-256,041	-3,396	621,971	8,957
1164	-13,276	4,000	-242,392	-3,219	634,563	9,178
1255	-1,176	-20,000	0,000	0,000	0,000	0,000
1259	-0,588	-20,000	0,000	0,000	0,000	0,000
1260	0,000	-20,000	0,000	0,000	0,000	0,000
1261	0,588	-20,000	0,000	0,000	0,000	0,000
1373	-13,507	2,000	-266,629	-3,699	611,634	8,905
1377	-12,077	2,000	-317,969	-4,380	568,932	8,159
1378	-12,554	2,000	-301,070	-4,158	583,587	8,415
1379	-13,030	2,000	-283,960	-3,931	597,832	8,664
1389	-12,015	4,000	-283,158	-3,743	595,829	8,497
1393	-11,638	4,000	-295,231	-3,896	583,732	8,285
1394	-11,261	4,000	-307,255	-4,048	571,417	8,069
1395	-10,884	4,000	-319,230	-4,198	558,895	7,849
1605	1,176	-20,000	0,000	0,000	0,000	0,000
1609	1,765	-20,000	0,000	0,000	0,000	0,000
1610	2,353	-20,000	0,000	0,000	0,000	0,000
1611	2,941	-20,000	0,000	0,000	0,000	0,000
1695	-11,601	2,000	-334,669	-4,598	553,898	7,896

**RELAZIONE DI CALCOLO OPERE
PROVVISIONALI**

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Node	x-coord.	y-coord.	dUx	Ux	dUy	Uy
No.			[10 ⁻³ m]	[10 ⁻³ m]	[10 ⁻³ m]	[10 ⁻³ m]
1696	-10,259	2,000	-380,705	-5,191	509,710	7,124
1697	-10,706	2,000	-365,517	-4,997	524,723	7,386
1698	-11,154	2,000	-350,174	-4,799	539,457	7,644
1727	-10,508	4,000	-331,157	-4,347	546,177	7,625
1731	-9,494	4,000	-362,998	-4,742	511,072	7,009
1732	-9,832	4,000	-352,420	-4,611	522,914	7,217
1733	-10,170	4,000	-341,807	-4,480	534,618	7,422
1769	3,529	-20,000	0,000	0,000	0,000	0,000
1773	4,118	-20,000	0,000	0,000	0,000	0,000
1774	4,706	-20,000	0,000	0,000	0,000	0,000
1775	5,294	-20,000	0,000	0,000	0,000	0,000
1943	-9,812	2,000	-395,745	-5,382	494,434	6,857
1947	-8,552	2,000	-437,369	-5,902	450,083	6,083
1948	-8,972	2,000	-423,611	-5,731	465,076	6,344
1949	-9,392	2,000	-409,738	-5,558	479,862	6,603
1953	-9,157	4,000	-373,542	-4,872	499,095	6,798
1954	-8,854	4,000	-382,966	-4,987	488,250	6,608
1955	-8,551	4,000	-392,366	-5,102	477,301	6,416
1956	-8,248	4,000	-401,745	-5,216	466,252	6,222
1963	-7,946	4,000	-411,107	-5,329	455,103	6,027
1967	-7,132	4,000	-436,223	-5,633	424,629	5,494
1968	-7,403	4,000	-427,856	-5,532	434,867	5,673
1969	-7,674	4,000	-419,486	-5,431	445,025	5,851
2175	5,882	-20,000	0,000	0,000	0,000	0,000
2176	6,471	-20,000	0,000	0,000	0,000	0,000
2177	7,059	-20,000	0,000	0,000	0,000	0,000
2178	7,647	-20,000	0,000	0,000	0,000	0,000
2229	-6,860	4,000	-444,590	-5,733	414,311	5,314
2230	-6,617	4,000	-452,095	-5,824	404,992	5,151
2231	-6,374	4,000	-459,609	-5,914	395,607	4,987
2232	-6,131	4,000	-467,139	-6,004	386,154	4,823

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011



Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
2261	-5,888	4,000	-474,692	-6,095	376,632	4,657
2262	-5,234	4,000	-495,179	-6,341	350,691	4,207
2263	-5,452	4,000	-488,314	-6,259	359,392	4,358
2264	-5,670	4,000	-481,488	-6,177	368,040	4,508
2305	-5,016	4,000	-502,090	-6,425	341,936	4,055
2309	-4,820	4,000	-508,331	-6,500	334,046	3,918
2310	-4,625	4,000	-514,622	-6,576	326,120	3,781
2311	-4,429	4,000	-520,971	-6,653	318,160	3,643
2439	-8,132	2,000	-451,019	-6,070	434,886	5,818
2440	-7,737	2,000	-463,740	-6,225	420,434	5,565
2441	-7,343	2,000	-476,373	-6,378	405,804	5,311
2442	-6,949	2,000	-488,922	-6,529	390,994	5,053
2475	8,235	-20,000	0,000	0,000	0,000	0,000
2479	8,824	-20,000	0,000	0,000	0,000	0,000
2480	9,412	-20,000	0,000	0,000	0,000	0,000
2481	10,000	-20,000	0,000	0,000	0,000	0,000
2565	-6,554	2,000	-501,388	-6,678	375,998	4,792
2569	-5,444	2,000	-536,083	-7,087	332,678	4,041
2570	-5,814	2,000	-524,586	-6,953	347,306	4,294
2571	-6,184	2,000	-513,021	-6,816	361,742	4,544
2743	-4,234	4,000	-527,382	-6,732	310,174	3,504
2747	-3,709	4,000	-544,957	-6,950	288,631	3,129
2748	-3,884	4,000	-539,045	-6,876	295,815	3,255
2749	-4,059	4,000	-533,186	-6,803	302,998	3,380
2797	-3,534	4,000	-550,913	-7,025	281,455	3,003
2801	-3,377	4,000	-556,282	-7,095	275,037	2,891
2802	-3,220	4,000	-561,656	-7,165	268,645	2,778
2803	-3,063	4,000	-566,996	-7,238	262,275	2,665
2897	-5,073	2,000	-547,513	-7,220	317,841	3,786
2898	-4,726	2,000	-558,183	-7,343	303,697	3,543
2899	-4,378	2,000	-568,799	-7,465	289,319	3,298

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
2900	-4,030	2,000	-579,361	-7,585	274,669	3,049
2997	10,588	-20,000	0,000	0,000	0,000	0,000
3001	11,176	-20,000	0,000	0,000	0,000	0,000
3002	11,765	-20,000	0,000	0,000	0,000	0,000
3003	12,353	-20,000	0,000	0,000	0,000	0,000
3055	-2,906	4,000	-572,251	-7,312	255,908	2,553
3056	-2,765	4,000	-576,631	-7,379	250,236	2,453
3057	-2,624	4,000	-580,850	-7,448	244,627	2,353
3058	-2,483	4,000	-585,388	-7,519	239,378	2,254
3065	-2,343	4,000	-590,807	-7,593	234,687	2,157
3066	-2,217	4,000	-596,745	-7,662	230,312	2,071
3067	-2,091	4,000	-603,183	-7,732	225,816	1,987
3068	-1,964	4,000	-609,544	-7,804	221,718	1,903
3075	0,000	-3,924	-645,698	-8,545	31,258	-425,685
3076	0,000	-3,849	-647,276	-8,560	31,281	-425,571
3077	0,000	-3,773	-648,842	-8,576	31,312	-425,417
3081	0,000	-3,698	-650,391	-8,591	31,348	-425,238
3082	0,000	-3,608	-652,206	-8,609	31,394	-425,006
3083	0,000	-3,518	-653,992	-8,626	31,444	-424,754
3084	0,000	-3,428	-655,744	-8,644	31,497	-424,481
3107	0,000	-4,000	-644,085	-8,529	31,216	-425,892
3149	0,000	-3,232	-659,453	-8,680	31,626	-423,820
3150	0,000	-3,125	-661,389	-8,699	31,702	-423,427
3151	0,000	-3,018	-663,268	-8,718	31,781	-423,013
3155	0,000	-3,338	-657,460	-8,661	31,554	-424,189
3171	0,000	-2,911	-665,088	-8,736	31,864	-422,578
3172	0,000	-2,784	-667,171	-8,757	31,966	-422,037
3173	0,000	-2,657	-669,166	-8,776	32,072	-421,471
3174	0,000	-2,530	-671,069	-8,795	32,181	-420,881
3213	12,941	-20,000	0,000	0,000	0,000	0,000
3217	13,529	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
3218	14,118	-20,000	0,000	0,000	0,000	0,000
3219	14,706	-20,000	0,000	0,000	0,000	0,000
3261	-3,683	2,000	-589,863	-7,703	259,683	2,798
3262	-2,703	2,000	-619,333	-8,025	215,125	2,072
3263	-3,030	2,000	-609,520	-7,919	230,406	2,317
3264	-3,356	2,000	-599,689	-7,812	245,225	2,559
3325	-1,838	4,000	-615,922	-7,876	217,514	1,819
3326	-1,499	4,000	-631,297	-8,087	206,828	1,614
3327	-1,612	4,000	-626,323	-8,015	209,333	1,680
3328	-1,725	4,000	-620,886	-7,945	212,117	1,749
3341	-1,386	4,000	-636,322	-8,163	204,528	1,553
3345	-1,285	4,000	-643,537	-8,241	204,526	1,509
3346	-1,183	4,000	-655,618	-8,333	207,735	1,481
3347	-1,082	4,000	-673,970	-8,450	217,990	1,479
3357	15,294	-20,000	0,000	0,000	0,000	0,000
3361	15,882	-20,000	0,000	0,000	0,000	0,000
3362	16,471	-20,000	0,000	0,000	0,000	0,000
3363	17,059	-20,000	0,000	0,000	0,000	0,000
3373	17,647	-20,000	0,000	0,000	0,000	0,000
3377	18,235	-20,000	0,000	0,000	0,000	0,000
3378	18,824	-20,000	0,000	0,000	0,000	0,000
3379	19,412	-20,000	0,000	0,000	0,000	0,000
3380	20,000	-20,000	0,000	0,000	0,000	0,000
3381	20,000	-19,389	0,000	0,000	924,329	8,352
3382	20,000	-18,778	0,000	0,000	1,459	3,203
3383	20,000	-18,167	0,000	0,000	1,480	-15,440
3605	0,000	-2,252	-674,914	-8,832	32,430	-419,519
3606	0,000	-2,101	-676,812	-8,850	32,571	-418,741
3607	0,000	-1,950	-678,573	-8,866	32,714	-417,941
3611	0,000	-2,403	-672,881	-8,812	32,293	-420,271
3627	0,000	-1,799	-680,196	-8,881	32,860	-417,119

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
3628	0,000	-1,619	-681,942	-8,897	33,036	-416,119
3629	0,000	-1,439	-683,483	-8,910	33,214	-415,098
3630	0,000	-1,260	-684,814	-8,920	33,393	-414,059
3643	-2,377	2,000	-629,073	-8,128	198,746	1,821
3647	-2,071	2,000	-637,340	-8,223	183,629	1,583
3648	-1,764	2,000	-644,414	-8,311	167,263	1,339
3649	-1,458	2,000	-651,970	-8,395	149,119	1,085
3771	-0,981	4,000	-702,454	-8,606	237,719	1,515
3775	-0,708	4,000	-760,568	-9,057	278,815	1,675
3776	-0,799	4,000	-747,443	-8,915	268,404	1,620
3777	-0,890	4,000	-728,786	-8,764	253,405	1,564
3841	-0,618	4,000	-772,672	-9,203	283,275	1,729
3845	-0,536	4,000	-785,327	-9,345	280,270	1,767
3846	-0,455	4,000	-801,577	-9,508	270,556	1,798
3847	-0,373	4,000	-828,485	-9,737	254,987	1,824
3851	20,000	-17,556	0,000	0,000	859,694	-47,725
3855	20,000	-16,944	0,000	0,000	-537,543	-93,970
3856	20,000	-16,333	0,000	0,000	-2,831	-154,285
3857	20,000	-15,722	0,000	0,000	-6,143	-228,815
3931	0,000	-0,866	-686,953	-8,934	33,786	-411,744
3932	0,000	-0,652	-687,646	-8,936	33,998	-410,477
3933	0,000	-0,439	-687,988	-8,934	34,208	-409,214
3937	0,000	-1,080	-685,926	-8,928	33,573	-413,006
4149	-1,151	2,000	-660,643	-8,482	122,372	809,421
4150	-0,288	2,000	-681,247	-8,683	64,887	-68,461
4151	-0,576	2,000	-673,696	-8,619	79,998	192,692
4152	-0,863	2,000	-667,580	-8,560	97,076	478,369
4159	20,000	-15,111	0,000	0,000	-10,599	-317,718
4163	20,000	-14,500	0,000	0,000	-16,309	-421,163
4164	20,000	-13,889	0,000	0,000	-23,407	-539,373
4165	20,000	-13,278	0,000	0,000	-31,980	-672,631

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
4169	0,000	4,390	-1,185	-13,802	35,824	-404,911
4170	0,000	4,474	-1,216	-14,166	35,814	-405,221
4171	0,000	4,557	-1,247	-14,538	35,804	-405,521
4175	0,000	4,307	-1,155	-13,448	35,835	-404,586
4179	0,000	4,077	-1,075	-12,524	35,872	-403,610
4180	0,000	4,153	-1,101	-12,823	35,859	-403,946
4181	0,000	4,230	-1,128	-13,131	35,846	-404,273
4201	-0,292	4,000	-876,422	-10,102	235,141	1,849
4205	-0,073	4,000	-1,015	-11,867	123,741	276,581
4206	-0,146	4,000	-966,654	-11,143	153,224	771,506
4207	-0,219	4,000	-928,769	-10,497	195,338	1,352
4211	0,000	3,786	-980,986	-11,484	35,918	-402,234
4212	0,000	3,857	-1,003	-11,724	35,906	-402,574
4213	0,000	3,929	-1,026	-11,975	35,895	-402,920
4214	0,000	4,000	-1,049	-12,235	35,885	-403,258
4317	0,000	0,029	-687,478	-8,913	34,653	-406,501
4318	0,000	0,283	-686,498	-8,893	34,882	-405,088
4319	0,000	0,537	-685,115	-8,866	35,101	-403,733
4323	0,000	-0,225	-687,970	-8,927	34,414	-407,963
4345	0,000	4,732	-1,313	-15,341	35,793	-406,068
4346	0,000	4,823	-1,348	-15,771	35,789	-406,327
4347	0,000	4,914	-1,383	-16,209	35,788	-406,565
4351	0,000	4,641	-1,278	-14,918	35,797	-405,801
4361	0,000	5,005	-1,419	-16,653	35,787	-406,785
4362	0,000	5,105	-1,458	-17,145	35,786	-407,007
4363	0,000	5,204	-1,497	-17,643	35,785	-407,215
4364	0,000	5,304	-1,537	-18,148	35,784	-407,405
4371	0,000	6,438	-1,999	-24,190	35,782	-408,904
4372	0,000	6,567	-2,052	-24,895	35,783	-409,004
4373	0,000	6,696	-2,105	-25,603	35,784	-409,089
4377	0,000	6,825	-2,159	-26,311	35,785	-409,163

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
4378	0,000	6,965	-2,217	-27,086	35,786	-409,233
4379	0,000	7,106	-2,275	-27,861	35,786	-409,277
4380	0,000	7,246	-2,333	-28,637	35,788	-409,304
4387	0,000	5,511	-1,620	-19,220	35,782	-407,761
4388	0,000	5,620	-1,664	-19,787	35,780	-407,935
4389	0,000	5,728	-1,708	-20,359	35,779	-408,099
4393	0,000	5,403	-1,577	-18,658	35,783	-407,585
4403	0,000	5,955	-1,801	-21,568	35,779	-408,397
4404	0,000	6,073	-1,849	-22,205	35,779	-408,540
4405	0,000	6,191	-1,897	-22,844	35,780	-408,670
4409	0,000	6,309	-1,946	-23,487	35,781	-408,789
4419	0,000	5,836	-1,752	-20,936	35,779	-408,246
4429	0,000	1,093	-681,858	-8,794	35,531	-401,104
4430	0,000	1,396	-681,360	-8,759	35,723	-399,954
4431	0,000	1,698	-683,742	-8,746	35,871	-399,141
4435	0,000	0,791	-683,523	-8,834	35,307	-402,474
4445	0,000	2,000	-691,514	-8,777	35,996	-398,570
4446	0,000	2,286	-706,205	-8,874	36,037	-398,829
4447	0,000	2,571	-730,364	-9,063	36,059	-399,232
4448	0,000	2,857	-766,225	-9,370	36,076	-399,658
4449	0,863	2,000	-709,562	-8,969	53,711	-525,589
4450	0,576	2,000	-703,401	-8,900	53,516	-430,875
4451	0,288	2,000	-696,120	-8,823	49,969	-367,485
4497	0,000	8,000	-2,646	-32,801	35,785	-409,335
4498	0,000	7,540	-2,455	-30,260	35,788	-409,316
4499	0,000	7,693	-2,518	-31,107	35,785	-409,322
4500	0,000	7,847	-2,582	-31,954	35,785	-409,330
4501	0,750	8,000	-1,693	-18,438	-172,619	-3,617
4502	0,500	8,000	-1,649	-18,350	-355,844	-5,253
4503	0,250	8,000	-1,552	-19,198	-229,209	-3,516
4507	0,000	7,387	-2,391	-29,413	35,788	-409,320

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
4601	0,000	3,286	-846,332	-10,111	36,071	-400,385
4602	0,000	3,429	-880,566	-10,446	36,035	-400,764
4603	0,000	3,571	-918,393	-10,827	35,988	-401,278
4607	0,000	3,143	-815,873	-9,822	36,090	-400,086
4617	0,000	3,714	-959,432	-11,254	35,937	-401,912
4659	20,000	-12,667	0,000	0,000	-42,067	-821,285
4663	20,000	-12,056	0,000	0,000	-53,771	-985,797
4664	20,000	-11,444	0,000	0,000	-67,386	-1,167
4665	20,000	-10,833	0,000	0,000	-83,107	-1,365
4865	20,000	-10,222	0,000	0,000	-100,989	-1,581
4869	20,000	-9,611	0,000	0,000	-121,067	-1,815
4870	20,000	-9,000	0,000	0,000	-150,755	-2,077
4871	20,000	-8,389	0,000	0,000	-186,383	-2,364
4875	1,000	8,000	-1,638	-18,155	-389,554	-5,610
4879	2,500	8,000	-1,615	-18,348	-386,524	-4,505
4880	2,000	8,000	-1,623	-18,321	-374,870	-5,176
4881	1,500	8,000	-1,635	-18,210	-377,680	-5,462
4901	1,151	2,000	-715,585	-9,034	50,871	-644,582
4902	2,071	2,000	-735,097	-9,224	35,271	-1,066
4903	1,764	2,000	-728,639	-9,164	41,698	-918,435
4904	1,458	2,000	-722,125	-9,101	46,982	-777,027
4921	2,377	2,000	-741,462	-9,280	27,898	-1,218
4925	3,356	2,000	-760,667	-9,436	-612,137	-1,729
4926	3,030	2,000	-754,485	-9,388	9,626	-1,555
4927	2,703	2,000	-748,078	-9,336	19,165	-1,385
5107	3,000	8,000	-1,627	-17,789	-389,640	-3,109
5111	4,500	8,000	-1,474	-11,853	-122,342	-2,553
5112	4,000	8,000	-1,627	-12,713	-259,481	-2,624
5113	3,500	8,000	-1,645	-14,442	-345,993	-2,712
5133	20,000	-7,778	0,000	0,000	-226,691	-2,679
5137	20,000	-7,167	0,000	0,000	-271,093	-3,021

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
5138	20,000	-6,556	0,000	0,000	-319,545	-3,396
5139	20,000	-5,944	0,000	0,000	-373,883	-3,814
5195	4,726	2,000	-784,053	-9,595	-49,379	-2,489
5196	4,378	2,000	-778,496	-9,561	-36,227	-2,292
5197	4,030	2,000	-772,689	-9,523	-23,568	-2,097
5201	3,683	2,000	-766,619	-9,480	-11,447	-1,906
5221	5,073	2,000	-789,377	-9,625	-62,995	-2,689
5222	6,184	2,000	-805,091	-9,691	-109,583	-3,346
5223	5,814	2,000	-800,046	-9,674	-93,523	-3,123
5224	5,444	2,000	-794,816	-9,652	-77,998	-2,905
5317	6,554	2,000	-809,976	-9,704	-126,183	-3,571
5318	7,737	2,000	-824,686	-9,713	-183,110	-4,315
5319	7,343	2,000	-819,926	-9,715	-163,477	-4,063
5320	6,949	2,000	-815,044	-9,712	-144,525	-3,815
5327	20,000	-5,333	0,000	0,000	-436,573	-4,293
5331	20,000	-4,722	0,000	0,000	-516,055	-4,855
5332	20,000	-4,111	0,000	0,000	-605,283	-5,515
5333	20,000	-3,500	0,000	0,000	-678,974	-6,225
5337	5,000	8,000	-1,182	-11,149	-41,324	-2,620
5341	6,875	8,000	-818,313	-10,125	-131,738	-3,816
5342	6,250	8,000	-826,147	-10,227	-102,867	-3,400
5343	5,625	8,000	-915,258	-10,497	-63,450	-2,981
5363	8,132	2,000	-829,331	-9,705	-203,440	-4,572
5367	9,392	2,000	-842,624	-9,647	-273,799	-5,421
5368	8,972	2,000	-838,674	-9,672	-249,681	-5,133
5369	8,552	2,000	-834,174	-9,692	-226,068	-4,850
5527	7,500	8,000	-816,156	-10,055	-158,612	-4,239
5528	9,375	8,000	-741,745	-9,756	-285,843	-5,618
5529	8,750	8,000	-783,943	-9,909	-229,165	-5,121
5530	8,125	8,000	-810,311	-10,015	-187,268	-4,663
5537	20,000	-2,889	0,000	0,000	-721,508	-6,929

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISORIALI		<i>Codice documento</i> SS0765_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
5541	20,000	-2,278	0,000	0,000	-742,222	-7,595
5542	20,000	-1,667	0,000	0,000	-769,111	-8,245
5543	20,000	-1,056	0,000	0,000	-816,243	-8,851
5621	9,812	2,000	-846,142	-9,616	-298,244	-5,713
5622	11,154	2,000	-845,307	-9,445	-399,968	-6,707
5623	10,706	2,000	-846,123	-9,511	-357,598	-6,352
5624	10,259	2,000	-847,059	-9,575	-328,732	-6,035
5641	11,601	2,000	-845,540	-9,386	-460,560	-7,113
5645	13,030	2,000	-848,299	-9,216	-790,261	-8,840
5646	12,554	2,000	-855,782	-9,279	-676,472	-8,224
5647	12,077	2,000	-849,410	-9,323	-557,553	-7,634
5657	10,000	8,000	-670,522	-9,545	-374,797	-6,187
5661	11,875	8,000	-452,512	-8,140	-871,501	-8,879
5662	11,250	8,000	-445,991	-8,700	-719,734	-7,812
5663	10,625	8,000	-538,406	-9,182	-524,756	-6,901
5693	20,000	-0,444	0,000	0,000	-876,557	-9,314
5697	20,000	0,167	0,000	0,000	-936,835	-9,784
5698	20,000	0,778	0,000	0,000	-971,902	-10,203
5699	20,000	1,389	0,000	0,000	-986,028	-10,591
5735	15,029	2,000	-554,811	-7,533	-1,021	-11,266
5736	14,521	2,000	-555,033	-7,750	-917,404	-10,304
5737	14,014	2,000	-607,688	-8,132	-853,120	-9,643
5741	13,507	2,000	-798,125	-8,991	-896,133	-9,537
5751	15,536	2,000	-557,894	-7,303	-1,093	-12,178
5755	17,157	2,000	-389,245	-5,187	-1,139	-13,224
5756	16,617	2,000	-462,088	-6,146	-1,137	-13,246
5757	16,077	2,000	-530,234	-6,876	-1,130	-12,894
5787	12,500	8,000	-475,995	-7,573	-972,201	-10,138
5788	14,375	8,000	-479,333	-7,207	-1,144	-12,827
5789	13,750	8,000	-485,025	-7,206	-1,088	-12,135
5790	13,125	8,000	-486,575	-7,221	-1,034	-11,249

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
5797	20,000	2,000	0,000	0,000	-1,005	-11,095
5798	19,424	2,000	-33,131	-634,357	-1,024	-11,233
5799	18,849	2,000	-96,654	-1,456	-1,069	-11,615
5800	18,273	2,000	-212,806	-2,621	-1,118	-12,183
5801	20,000	2,500	0,000	0,000	-1,025	-11,443
5802	20,000	3,000	0,000	0,000	-1,104	-12,194
5803	20,000	3,500	0,000	0,000	-1,309	-13,656
5813	17,698	2,000	-374,062	-4,187	-1,190	-12,988
5833	15,000	8,000	-475,716	-7,037	-1,207	-13,460
5841	20,000	4,000	0,000	0,000	-1,681	-16,291
5846	17,500	8,000	-487,368	-3,816	-1,467	-17,856
5847	16,875	8,000	-473,184	-5,265	-1,426	-16,412
5848	16,250	8,000	-464,722	-5,956	-1,354	-15,412
5849	15,625	8,000	-464,725	-6,287	-1,277	-14,409
5862	20,000	4,500	0,000	0,000	-1,887	-19,850
5866	20,000	5,000	0,000	0,000	-2,033	-22,785
5867	20,000	5,500	0,000	0,000	-2,052	-24,620
5871	20,000	6,000	0,000	0,000	-2,023	-25,287
5878	20,000	8,000	0,000	0,000	-2,356	-26,516
5882	20,000	7,000	0,000	0,000	-2,369	-26,552
5883	20,000	7,500	0,000	0,000	-2,353	-26,502
5884	19,375	8,000	38,831	215,787	-2,235	-25,783
5885	18,125	8,000	-20,333	-429,928	-1,743	-20,728
5886	20,000	6,500	0,000	0,000	-2,342	-26,470