

ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO
Tratto Selci Lama (E45) – S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (lotto 2)
e del tratto Guinza – Mercatello Ovest (lotto 3)
1° stralcio

PROGETTO ESECUTIVO

COD. AN58

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TEMPORANEO PROGETTISTI

MANDATARIA:



MANDANTI:



sinergo

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06 - OPERE D'ARTE MAGGIORI IN SOTTERRANEO
06.02 - GA.01 - GALLERIA GUINZA - IMBOCCO LATO UMBRIA
06.02.02 - INTERVENTI DI MESSA IN SICUREZZA PARATIA DI IMBOCCO

Relazione di calcolo

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Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

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Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

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RTP di progettazione:

Mandataria:



Mandanti:



1 INTRODUZIONE

La presente relazione fa parte della documentazione allegata al Progetto Esecutivo delle opere di imbocco lato Umbria della galleria della Guinza facente parte dell'itinerario Internazionale E78 S.G.C. Grosseto – Fano – Tratto Selci Lama (E45) – S. Stefano di Gaifa - Adeguamento a 2 corsie della Galleria della Guinza (lotto 2) e del tratto Guinza – Mercatello Ovest (lotto 3).

La galleria della Guinza è un traforo stradale a canna unica di lunghezza pari a 5960 m, non ancora aperto al traffico, situato nell'Appennino umbro-marchigiano.

Oggetto del presente documento è in particolare la messa in sicurezza dell'esistente paratia ubicata in corrispondenza dell'imbocco lato Umbria.

2 DOCUMENTI DI RIFERIMENTO

2.1 NORMATIVA DI RIFERIMENTO

- Decreto Ministero delle Infrastrutture e Trasporti 17/01/2018, "Aggiornamento delle Norme tecniche per le costruzioni";
- CIRCOLARE 21 gennaio 2019, n. 7 C.S.LL.PP. Istruzioni per l'applicazione dell'«Aggiornamento delle "Norme tecniche per le costruzioni"» di cui al decreto ministeriale 17 gennaio 2018.

2.2 LETTERATURA TECNICA DI RIFERIMENTO

- PARATIE PLUS 2022 – Manuale d'uso;
- M. Bustamante, B. Doix (1985). Une méthode pour le calcul des tirants et des micropieux injectés. Bull. Liaison Lab. Ponts et Chaussées, Paris, n. 140, nov-déc 1985 – Ref. 3047, 75-92;
- C. Viggiani (1999). Fondazioni, Hevelius Edizioni;
- A.W. Bishop (1955). The use of the slip circle in the stability analysis of slopes. Geotechnique, 5, 7-17;
- N. Janbu (1954). Stability analysis of slopes with dimensionless parameters. Harvard Soil Mechanics Series;
- 46, 811 pp.N.R. Morgenstern & V.E. Price (1965). The analysis of the stability of generalised slip surfaces. Geotechnique, 15, 79-93.

2.3 CODICI DI CALCOLO

- "PARATIEPLUS 2022.0" (analisi di strutture di sostegno flessibili e scavi a cielo aperto)

2.4 DOCUMENTAZIONE PROGETTUALE DI RIFERIMENTO

- [1] T00GE03GETRE01 - Relazione geotecnica generale
- [2] T00GE03GETRE03 - Relazione geomeccanica
- [3] T00GE04GETRE01 - Relazione sismica

2.5 DOCUMENTAZIONE STORICA

- Certificato di collaudo dell'opera

3 DESCRIZIONE DELL'OPERA ESISTENTE

La paratia esistente, realizzata nei primi anni 2000, si sviluppa per una lunghezza complessiva di 20 m + 52.06 m = 72.06 m ed è caratterizzata da un'altezza variabile con massimo di circa 13.5 m rispetto all'esistente p.c.

L'opera è realizzata con micropali caratterizzati da un diametro di perforazione di 200 mm, armatura in acciaio CHS 139.7 x 8 mm e disposti ad interasse 40 cm; quali opere di contrasto dei micropali sono stati realizzati 2/3 ordini di tiranti costituiti da trefoli in numero da 4 a 6, disposti ad interasse variabile da 1.60 m a 2.40 m e collegati da travi di ripartizione in 2 x HEA220, oltre ad una trave di coronamento in c.a. a sezione rettangolare 55x50 cm.

Di seguito si riporta un'immagine e la sezione della sviluppata dello stato di fatto.

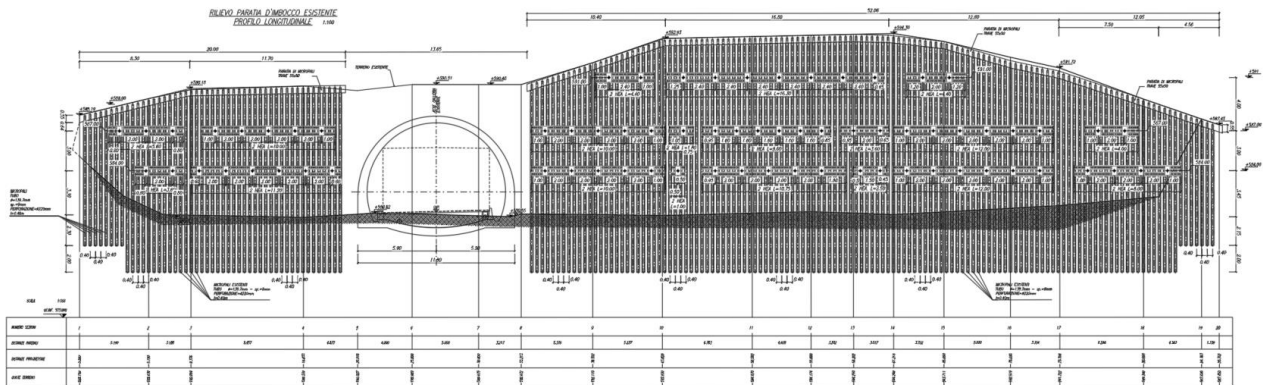


Figura 1 – Paratia esistente – sviluppata



Figura 2 – Paratia esistente – immagine stato di fatto

4 DESCRIZIONE DEGLI INTERVENTI

Gli interventi prevedono l'inserimento di 2/3 ordini di tiranti integrativi costituiti da 4 trefoli, inclinati di 15° rispetto all'orizzontale, disposti con interasse variabile da 2.00 m a 2.40 m e collegati con travi di ripartizione in 2 x HEA180.

Di seguito si riporta la sezione della sviluppata dello stato di progetto e due sezioni rappresentative.

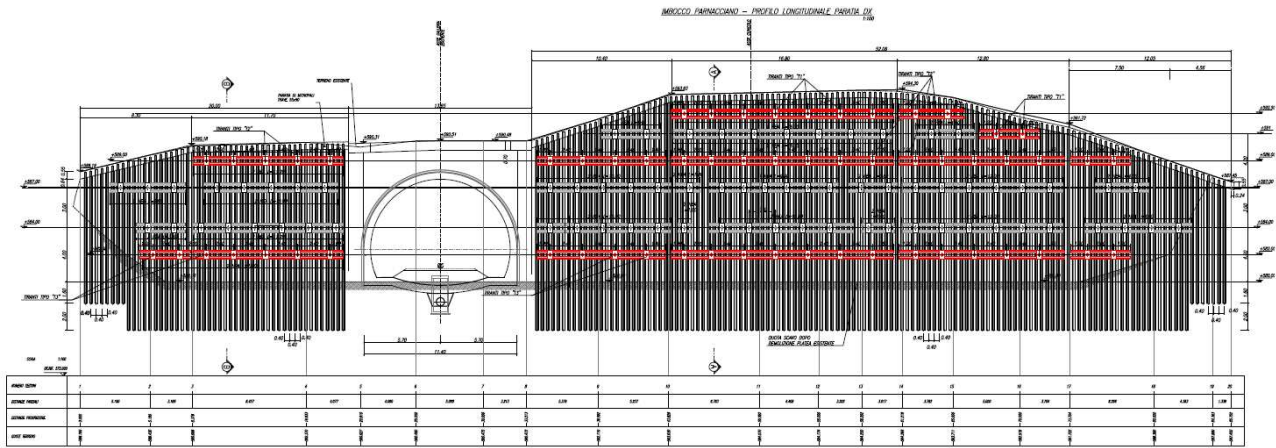


Figura 3 – Stato di progetto – sviluppata

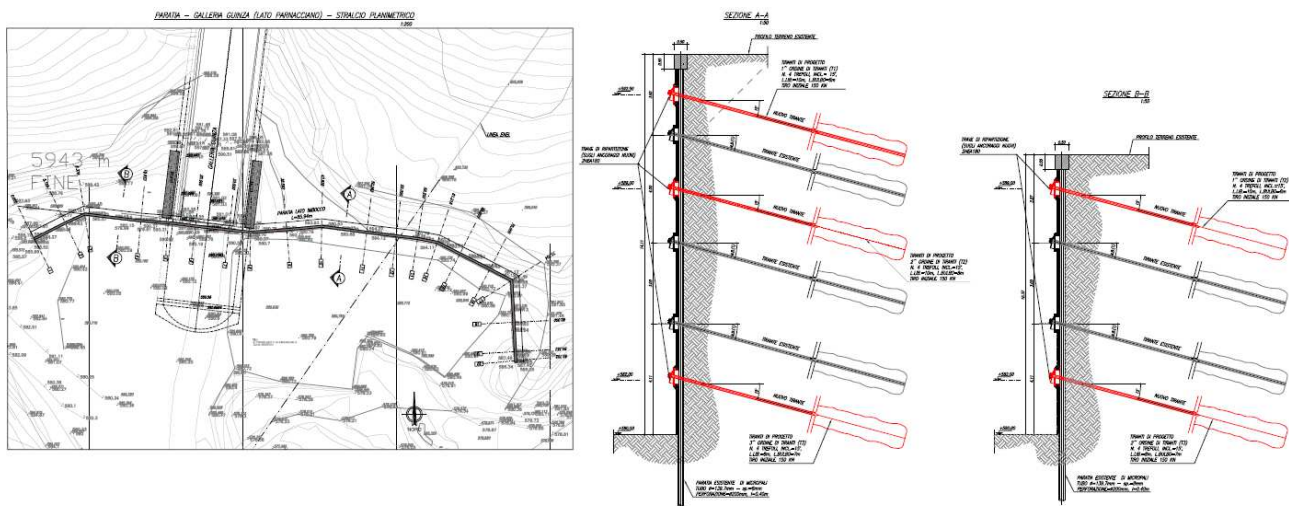


Figura 4 – Stato di progetto – sezioni

5 CARATTERISTICHE DEI MATERIALI STRUTTURALI

5.1 Opere esistenti

Calcestruzzo micropali	
Classe di resistenza	C 20/25
Resistenza di progetto a compressione a 28 giorni	$f_{cd} = 0.85 f_{ck}/1.5 = 11.76 \text{ MPa}$
Modulo elastico a 28 giorni	$E_{cm} = 22000(f_{cm}/10)^{0.3} \text{ MPa}=30200 \text{ MPa}$

Acciaio micropali	
Tipo	Fe510
Tensione di snervamento caratteristica	$f_{yk} \geq 355 \text{ MPa}$
Tensione di rottura caratteristica	$f_{tk} \geq 510 \text{ MPa}$
Tensione di snervamento di calcolo	$f_{yd} = f_{yk}/1.05=338 \text{ MPa}$

Acciaio per travi di ripartizione	
Tipo	Fe430
Tensione di snervamento caratteristica	$f_{yk} \geq 275 \text{ MPa}$
Tensione di rottura caratteristica	$f_{tk} \geq 430 \text{ MPa}$
Tensione di snervamento di calcolo	$f_{yd} = f_{yk}/1.05=261.9 \text{ MPa}$

Acciaio armonico per tiranti	
Tipo	Trefoli da 0,6"
Tensione di rottura caratteristica	$f_{ptk} \geq 1860 \text{ MPa}$
Tensione elastica all'1% di deformazione	$f_{p(1)k} \geq 1670 \text{ MPa}$
Modulo di Young	$E = 210000 \text{ MPa}$

5.2 Nuove opere

Acciaio per travi di ripartizione	
Tipo	S 275 JR
Tensione di snervamento caratteristica	$f_{yk} \geq 275 \text{ MPa}$
Tensione di rottura caratteristica	$f_{tk} \geq 430 \text{ MPa}$
Tensione di snervamento di calcolo	$f_{yd} = f_{yk}/1.05 = 261.9 \text{ MPa}$

Acciaio armonico per tiranti	
Tipo	Trefoli da 0,6''
Tensione di rottura caratteristica	$f_{ptk} \geq 1860 \text{ MPa}$
Tensione elastica all'1% di deformazione	$f_{p(1)k} \geq 1670 \text{ MPa}$
Modulo di Young	$E = 210000 \text{ MPa}$

6 CARATTERIZZAZIONE GEOTECNICA

Di seguito si riporta la stratigrafia ed i parametri geomeccanici assunti in accordo con la caratterizzazione geotecnica di progetto [1][2].

Unità	Profondità da piano campagna (m)	γ (kN/m ³)	c'_k (kPa)	ϕ_k (°)	E (MPa)
Coltre detritica	3	18	0	30	30
Marna arenacea	>3	21	100	35	1000

Tabella 1 – Stratigrafia e parametri geotecnici di progetto

Con:

- γ = peso di volume naturale;
- ϕ_k = angolo di resistenza al taglio;
- c'_k = coesione drenata;
- E = modulo di Young operativo.

La falda non è interferente con le opere.

7 CARATTERIZZAZIONE SISMICA

Alle strutture in oggetto si attribuisce una vita nominale V_N di 50 anni e un coefficiente d'uso c_u pari a 2.0 (classe d'uso IV) [3].

Con riferimento alla probabilità di superamento dell'azione sismica, P_{VR} , attribuita allo stato limite ultimo di salvaguardia della vita (SLV), nel periodo V_R dell'opera in progetto, si determina il periodo di ritorno T_R del sisma di progetto. Sulla base delle coordinate geografiche del sito e del tempo di ritorno del sisma di progetto, T_R , sopra definito, si ricavano i parametri che caratterizzano il sisma di progetto relativo al sito di riferimento, rigido ed orizzontale:

- a_g : accelerazione orizzontale massima
- F_0 : valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale
- T^*_C : periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale.

Per le opere provvisionali di imbocco il periodo di ritorno si determina con l'espressione:

$$T_R = - \frac{V_R}{\ln(1 - P_{V_R})}$$

Per tenere conto dei fattori locali del sito, l'accelerazione orizzontale massima attesa al sito è valutata con la relazione (DM 17/01/2018):

$$a_{\max} = S_s \cdot S_T \cdot \left(\frac{a_g}{g} \right)$$

dove:

- a_g è l'accelerazione orizzontale massima attesa su sito di riferimento rigido;
- S_s è il fattore di amplificazione stratigrafica del terreno, funzione della categoria del sottosuolo di fondazione e dei parametri sismici F_0 e a_g/g (Tabella 3.2.IV del D.M. 17/01/2018);
- S_T è il fattore di amplificazione che tiene conto delle condizioni topografiche, il cui valore dipende dalla categoria topografica e dall'ubicazione dell'opera (Tabella 3.2.V del D.M. 17/01/2018).

I valori delle grandezze necessarie per la definizione dell'azione sismica per le presenti opere sono riassunti nella seguente tabella:

T_R	949
a_g/g	0.294
F_0	2.464
Categoria sottosuolo	B
S_s	1.118
Categoria topografica	T2
S_T	1.2

Ai fini dell'analisi è stato assunto un approccio pseudo statico secondo la teoria di Mononobe & Okabe.

8 CRITERI DI VERIFICA

Le verifiche sono state condotte in accordo con le prescrizioni e le indicazioni del DM 17/01/2018.

Lo studio dell'interazione dell'opera con il terreno è stato condotto mediante il codice di calcolo PARATIE PLUS 2022.

PARATIEPLUS è un codice agli elementi finiti che simula il problema di uno scavo sostenuto da opere flessibili e permette di valutare il comportamento della parete di sostegno durante tutte le fasi intermedie e nella configurazione finale. Il problema reale è assimilato ad un problema piano in cui viene analizzata una "fetta" di parete di larghezza unitaria, come mostrato nella figura seguente.

La modellazione numerica dell'interazione terreno-struttura è del tipo "trave su suolo elastico": le pareti di sostegno vengono rappresentate con elementi finiti tipo trave il cui comportamento è definito dalla rigidezza flessionale EJ , mentre il terreno viene simulato attraverso elementi monodimensionali (molle) connessi ai nodi delle paratie a comportamento elastoplastico incrudente caratterizzato da un modulo elastico E_{vc} a compressione vergine ed un modulo E_{ur} in fase di scarico/ricarico. Il criterio di rottura è quello di Mohr-Coulomb. Le condizioni iniziali a riposo sono determinate assegnando il coefficiente di spinta a riposo k_0 normalmente consolidato. I tiranti sono simulati attraverso elementi elastici di rigidezza $K=E(A/L)$ ove E è il modulo elastico del materiale, A l'area per unità di larghezza e L la lunghezza dell'elemento, trascurando pertanto ogni contributo flessionale.

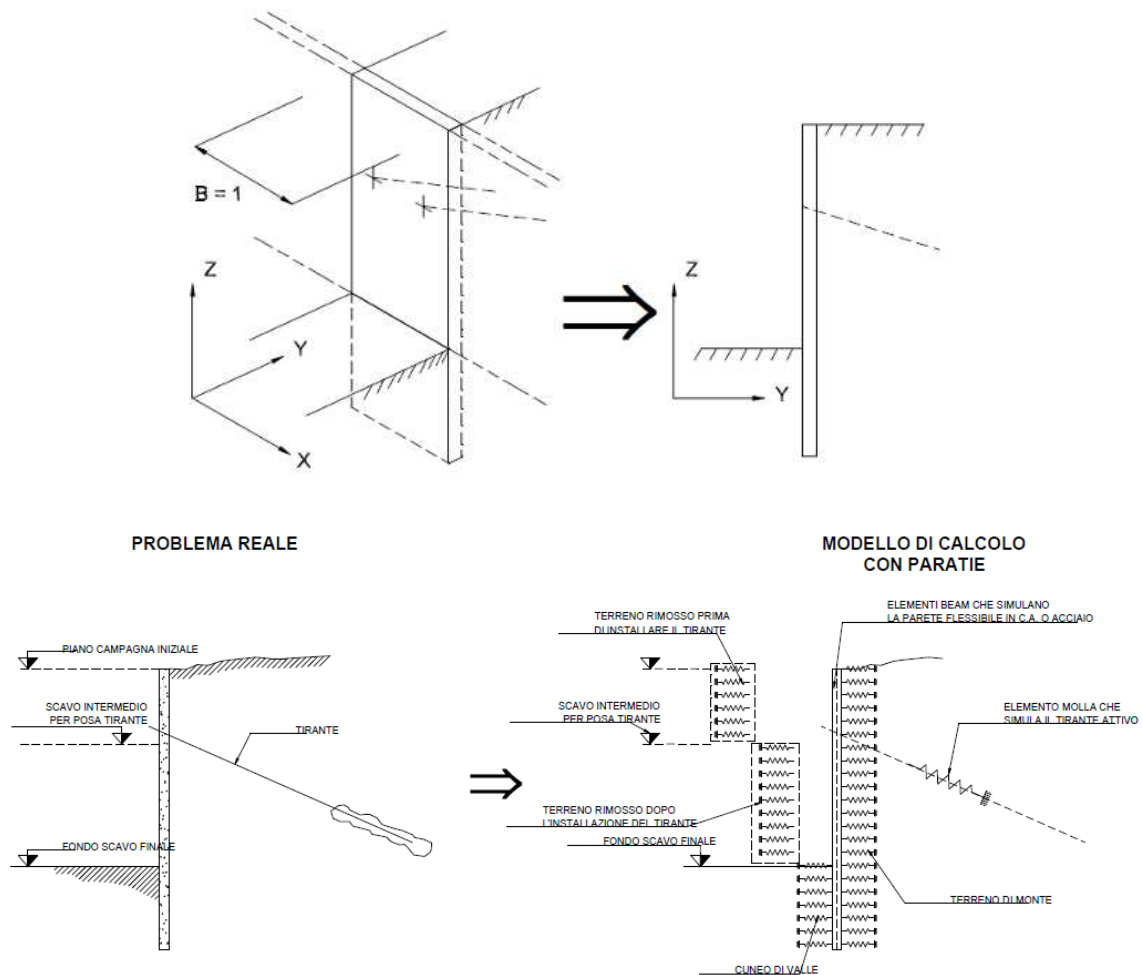


Figura 5 – Schema di analisi di PARATIE

8.1 Azioni

Le azioni considerate per la verifica delle strutture di sostegno dell'imbotto sono le seguenti:

- **azioni permanenti strutturali:** peso proprio degli elementi strutturali, spinta del terreno a monte e a valle dell'opera, Carico fittizio simulante l'inclinazione del pendio a monte dell'opera opportunamente discretizzato in modo da simulare fedelmente il reale andamento del profilo topografico del pendio.
- **azioni variabili:** carico variabile sul piano campagna a monte della struttura di sostegno, Q_{1M} , atto a schematizzare nella fase costruttiva l'eventuale presenza di sovraccarichi di varia natura connessi alla realizzazione delle opere;
- **azione sismica:** l'accelerazione orizzontale massima attesa al suolo è definita nel paragrafo precedente

Sulla base della definizione dei carichi di cui sopra, sono state individuate le combinazioni di carico per le verifiche di stati limite ultimi e di esercizio in condizioni statiche e in condizioni sismiche.

- combinazione fondamentale (SLU)
- combinazione sismica (SLV): il coefficiente di combinazione per il carico variabile Q_1 è pari a 0.2

8.2 Approcci progettuali e metodi di verifica

Le verifiche delle strutture di sostegno sono state condotte nei riguardi dei seguenti stati limite ultimi (SLU):

- collasso del complesso opera-terreno;
- instabilità globale dell'insieme terreno-opera;
- sfilamento di uno o più ancoraggi;
- raggiungimento della resistenza in uno o più ancoraggi,
- raggiungimento della resistenza degli elementi strutturali.

per le strutture di sostegno flessibili, è stato adottato l'Approccio Progettuale 1 con le due combinazioni di coefficienti parziali:

- combinazione 1: $A1 + M1 + R1$
- combinazione 2: $A2 + M2 + R1$.

Il dimensionamento geotecnico dell'opera è stato condotto con la verifica di stati limite ultimi GEO, applicando la Combinazione 2 ($A2+M2+R1$). Le verifiche di stati limite ultimi STR devono essere invece condotte secondo l'approccio 1, considerando le due diverse combinazioni di coefficienti: combinazione 1 ($A1+M1+R1$) e combinazione 2 ($A2+M2+R1$).

Al fine di rispettare le richieste della Normativa in merito al modello geometrico di riferimento (§6.5.2.2 DM 17/01/2018) nel caso di opere in cui la funzione di sostegno è affidata alla resistenza del volume di terreno a valle dell'opera, la quota di valle è diminuita della quantità prevista per opere vincolate:

$$\Delta h = \min (0.5; 10\% \Delta t)$$

In cui Δt è la differenza di quota tra il livello inferiore di vincolo e il fondo scavo.

Le verifiche in condizioni sismiche sono state condotte con riferimento allo stato limite ultimo di salvaguardia della vita (SLV), con riferimento alla configurazione finale dell'opera di sostegno. Per le verifiche in condizioni sismiche i coefficienti parziali sulle azioni sono pari all'unità. Si è adottato il metodo pseudostatico, calcolando il coefficiente sismico orizzontale secondo le prescrizioni della normativa (DM 17/01/2018):

$$k_h = \alpha \cdot \beta \cdot \left(\frac{a_{\max}}{g} \right)$$

dove:

- a_{\max} è l'accelerazione orizzontale massima attesa al sito,
- α è il coefficiente di deformabilità (Figura 7.11.2 del DM 17/01/2018),
- β è il coefficiente di spostamento (Figura 7.11.3 del DM 17/01/2018).

Il coefficiente α è assunto pari ad 1 mentre β pari a 0.7344 (associato ad uno spostamento plastico di 2 cm).

L'effetto del sisma è ottenuto applicando un incremento di spinta del terreno valutato secondo la teoria di Mononobe-Okabe, agente direttamente sulla paratia secondo una distribuzione uniforme sull'intera altezza dell'opera.

$$\Delta S_E = \left[\frac{1}{2} \gamma \cdot H^2 \cdot (K_{aE} - K_a) \right] / H,$$

dove γ rappresenta il peso dell'unità di volume della formazione con la quale l'opera interagisce, H rappresenta l'altezza totale dell'opera (comprensiva del tratto infisso), K_{aE} , K_{aE} e K_a rappresentano i coefficienti di spinta attiva in condizioni sismiche e statiche rispettivamente.

Per la valutazione della spinta passiva si assume $\alpha=1$ (§7.11.6.3 del DM 17/01/2018). Il coefficiente sismico verticale, k_v , si assume pari a 0 (§7.11.6.3 del DM 17/01/2018).

I coefficienti di spinta attiva sono stati determinati attraverso la relazione di Mononobe (1929) e Okabe (1926). I coefficienti di spinta passiva sono stati determinati attraverso la relazione di Lancellotta (2007). L'angolo di attrito terreno/struttura, δ , è stato assunto pari a 2/3 della resistenza al taglio del terreno naturale.

8.3 Tiranti di ancoraggio

Ai fini progettuali i tiranti di ancoraggio si distinguono in provvisori e permanenti. Nelle verifiche di sicurezza allo Stato Limite Ultimo devono essere considerati tutti i meccanismi di collasso sia a breve che a lungo termine. Gli Stati Limite Ultimi per questa tipologia di opere si riferiscono allo sviluppo di meccanismi di collasso determinati dalla mobilitazione della resistenza del terreno e del raggiungimento della resistenza dei materiali strutturali da cui sono composti.

Per il dimensionamento geotecnico, deve risultare verificata la condizione:

$$E_d \leq R_d$$

con specifico riferimento allo stato limite di sfilamento della fondazione dell'ancoraggio. La verifica di tale condizione è da effettuarsi con riferimento alla combinazione A1+M1+R3, utilizzando per i coefficienti A1 ed M1 i valori riportati nelle Tab. 6.2.I e Tab 6.2.II del DM 17/01/2018 e per le resistenze i valori riportati in Tab. 6.6.I.

La verifica a sfilamento della fondazione dell'ancoraggio si esegue confrontando la massima azione di progetto (E_d) con la resistenza di progetto R_{ad} , determinata applicando alla resistenza caratteristica R_{sk} i coefficienti parziali γ_R riportati nella tabella precedente, in funzione del tipo di ancoraggio.

Qualora il valore caratteristico della resistenza allo sfilamento dell'ancoraggio sia determinata utilizzando metodi analitici, il valore di questa deve essere assunto come il minore dei valori derivanti dall'applicazione dei fattori di correlazione ξ_{a3} e ξ_{a4} riportati in Tab. 6.6.II del DM 17/01/2018, in funzione del numero di verticali di indagine che consentono la completa identificazione del modello geotecnico del sottosuolo per il terreno interessato dalle fondazioni degli ancoraggi.

Nella valutazione analitica della resistenza allo sfilamento degli ancoraggi, inoltre, si fa riferimento ai coefficienti parziali di sicurezza del terreno M1 (pertanto non vengono ridotte le caratteristiche dei terreni in cui le fondazioni degli ancoraggi verranno realizzate).

In presenza di evento sismico, con i tiranti attivi, secondo quanto proposto dal DM 17/01/2018 al § 7.11.6.4, la lunghezza libera da considerare è:

$$L_E = L_L \times (1 + 1.5 \times a_{\max}/g)$$

dove:

L_E : lunghezza libera in condizioni sismiche

L_L : lunghezza libera in condizioni statiche

8.4 Stabilità globale

In accordo con le indicazioni del DM 17/01/2018 § 6.8.2, le verifiche di sicurezza SLU sono state condotte secondo l'Approccio 1 - Combinazione 2 (A2+M2+R2), in cui A2 sono i coefficienti moltiplicativi delle azioni e M2 e R2 sono i coefficienti riduttivi dei parametri di resistenza dei materiali e della resistenza globale del sistema. Il rapporto tra R_d ed E_d dovrà risultare sempre maggiore o uguale a $\gamma_R = 1.1$ in condizioni statiche per assicurare che la verifica di sicurezza richiesta da normativa sia rispettata.

Per le verifiche sismiche si applicano gli stessi criteri ponendo pari all'unità i coefficienti parziali sulle azioni e sui parametri geotecnici (§7.11.1 e § 7.11.4 del DM 17/01/2018) e impiegando le resistenze di progetto calcolate con un coefficiente parziale pari a $\gamma_R = 1.2$. (§ 7.11.4 del DM 17/01/2018).

Ai fini della valutazione dell'azione sismica, nelle verifiche agli stati limite ultimi SLV, vengono considerate le seguenti forze statiche equivalenti:

$$F_h = k_h \cdot W \quad \text{ed} \quad F_v = k_v \cdot W$$

con k_h e k_v pari rispettivamente ai coefficienti sismici orizzontale e verticale:

$$k_h = \beta_s \cdot a_{\max}/g \quad \text{e} \quad k_v = \pm 0.5 \cdot k_h$$

in cui:

- β_s : coefficiente di riduzione dell'accelerazione massima attesa al sito;
- a_{\max} : accelerazione orizzontale massima attesa al sito;
- g : accelerazione di gravità.

L'accelerazione massima attesa al sito può essere valutata con la relazione:

$$a_{\max} = S \cdot a_g = S_S \cdot S_T \cdot a_g$$

dove:

- S = coefficiente che comprende l'effetto dell'amplificazione stratigrafica (S_S) e dell'amplificazione topografica (S_T), di cui al § 3.2.3.2;
- a_g = accelerazione orizzontale massima attesa su sito di riferimento rigido.

Il valore di β_s è assunto pari a 0.7344 (associato ad uno spostamento plastico di 2 cm).

Le analisi sono condotte con il modulo VSP del software Paratie Plus 2022 (HARPACEAS srl), attraverso il quale le verifiche sono effettuate secondo il noto metodo all'equilibrio limite (LEM) di

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:

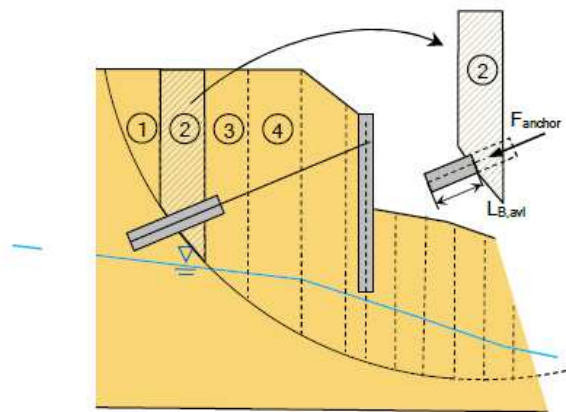


Morgenstern&Price. Il metodo suddivide la regione di terreno mobilitata in conci verticali compresi tra la sommità del terreno e la superficie di scorrimento; il coefficiente di sicurezza associato ad una superficie è calcolato imponendo le condizioni di equilibrio, nelle quali vengono introdotte le resistenze offerte del terreno affette da tale coefficiente di sicurezza.

Ai fini dell'analisi la presenza della paratia è assunta solo quale vincolo geometrico per la definizione delle superfici di scorrimento.

Per quanto concerne i tiranti si evidenzia quanto segue:

- un tirante totalmente contenuto nell'ammasso instabile non produce alcun effetto stabilizzante
- qualora la superficie di scorrimento attraversi il tirante, esso viene calcolato quale contributo alla stabilità nel seguente modo:
 1. si determina la resistenza di calcolo F_{anchor} disponibile, pari al minimo tra
 - a. la resistenza strutturale
 - b. la resistenza del tratto ancorato al terreno, per la sola quota-parte della fondazione esterna alla superficie di scivolamento ($L_{B,avi}$ in figura)



2. si individua il concio la cui base contiene l'intersezione tra la superficie di scivolamento e il tirante, ad esempio il concio 2 in figura;
3. nel risolvere le condizioni di equilibrio locale di quel concio, si aggiunge il contributo F_{anchor}
4. si assembla il contributo del concio, dipendente quindi anche dalla resistenza di calcolo del tirante, nelle equazioni risolventi globali e si esegue il calcolo del coefficiente di sicurezza come di routine.

9 ANALISI E VERIFICHE

9.1 Descrizione delle sezioni di verifica

Di seguito si riporta l'ubicazione delle sezioni di verifica esaminate, ritenute rappresentative del comportamento globale dell'opera; ai fini delle verifiche si trascura il contributo a lungo termine dei tiranti esistenti.

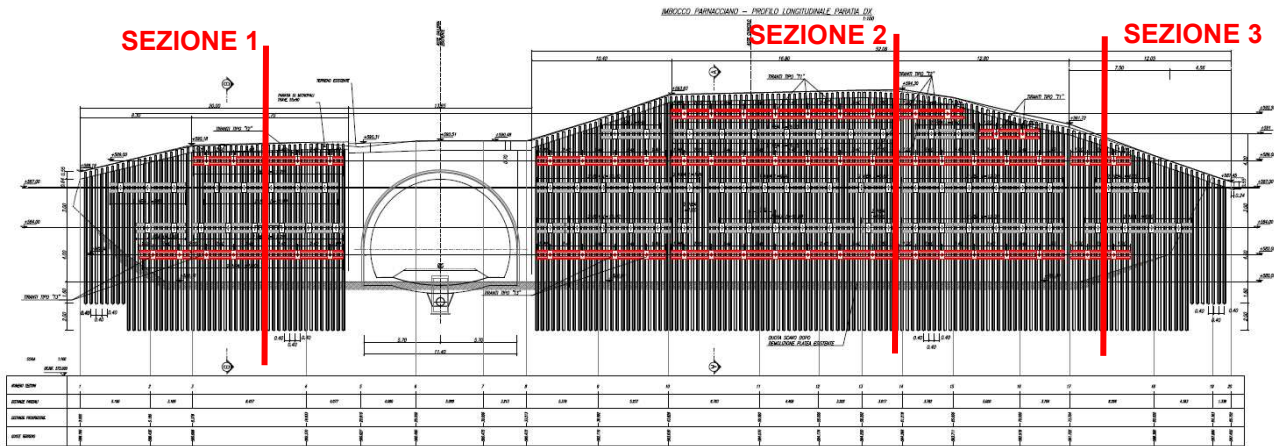


Figura 6 – Sezioni di verifica

9.2 Sezione di verifica 1

9.2.1 Dati di calcolo

Altezza di scavo esistente: $590.30 \text{ m} - 580.70 = 9.60 \text{ m}$

Altezza di scavo di progetto: $590.30 \text{ m} - 580.00 = 10.30 \text{ m}$

Altezza di scavo di calcolo: $10.30 \text{ m} + 0.20 \text{ m} = 10.50 \text{ m}$

Lunghezza paratia: 13 m

Lunghezza di infissione: 2.5 m

Micropali: diametro perforazione 200 mm - armatura $\varnothing 139.7 \times 8 \text{ mm Fe430}$ - interasse 40 cm

Tiranti

Dati	Ordine 1 (Nuovo)	Ordine 2 (Esistente)	Ordine 3 (Esistente)	Ordine 4 (Nuovo)
Profondità	-1.30 m	- 3.30 m	- 6.30 m	- 8.30 m
Inclinazione	15°	15°	15°	15°
n. trefoli	4	4	4	4
Pretiro	150 kN	150 kN	150 kN	150 kN
Tiro in esercizio	150 kN	150 kN	150 kN	150 kN
Interasse	2.4 m	2.4 m	2.4 m	2.4 m
L libera	10	10	8	8
L ancorata	8	8	7	7
Trave di ripartizione	HEA180	HEA220	HEA220	HEA180

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:

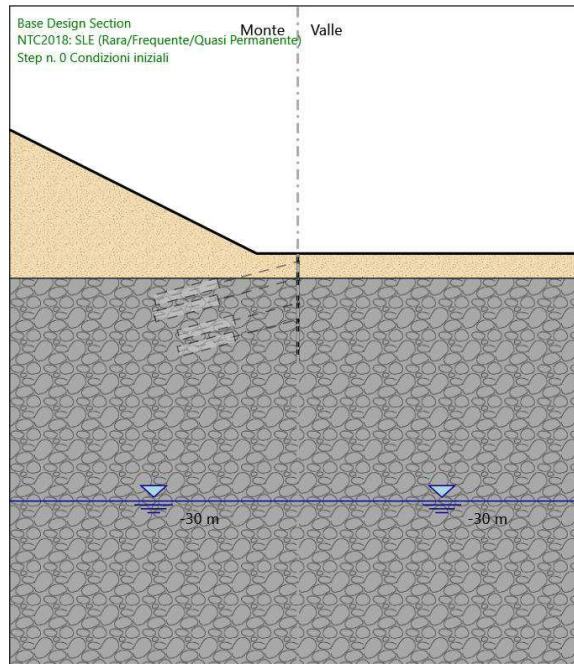


Mandanti:

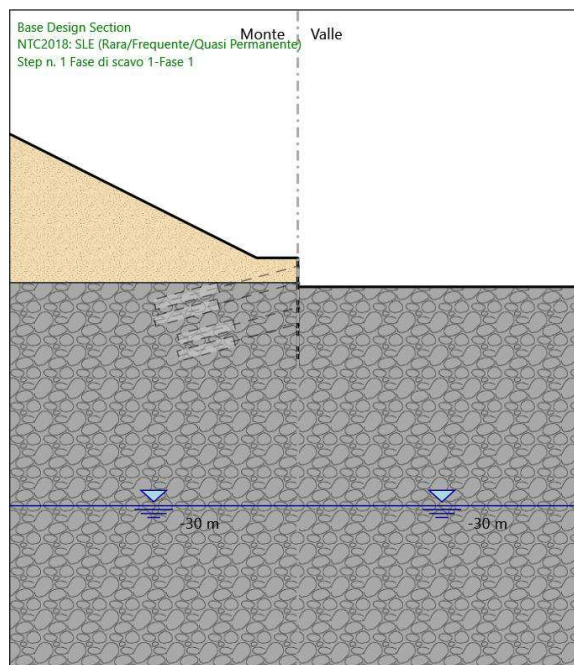


9.2.2 Modello e fasi di calcolo

Step n. 0 Condizioni iniziali



Step n. 1 Fase di scavo 1-Fase 1



Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

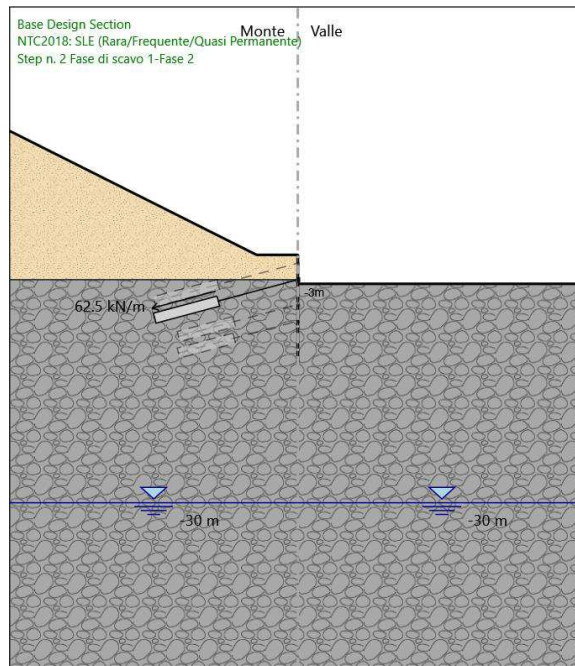
Mandatara:



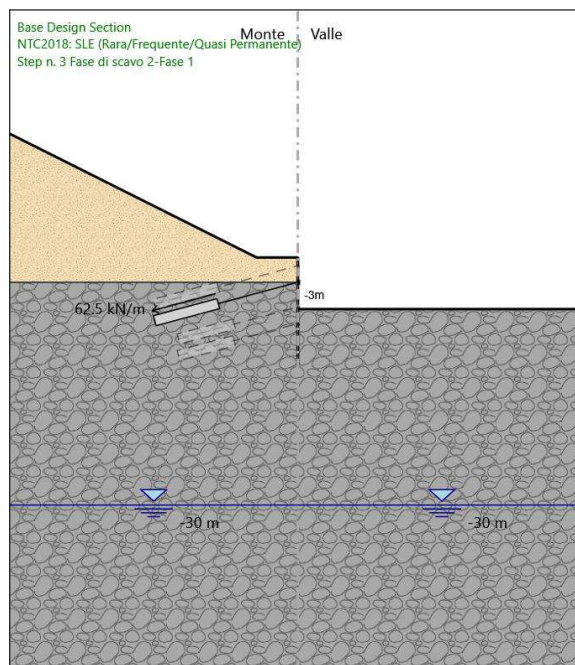
Mandanti:



Step n. 2 Fase di scavo 1-Fase 2



Step n. 3 Fase di scavo 2-Fase 1



Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

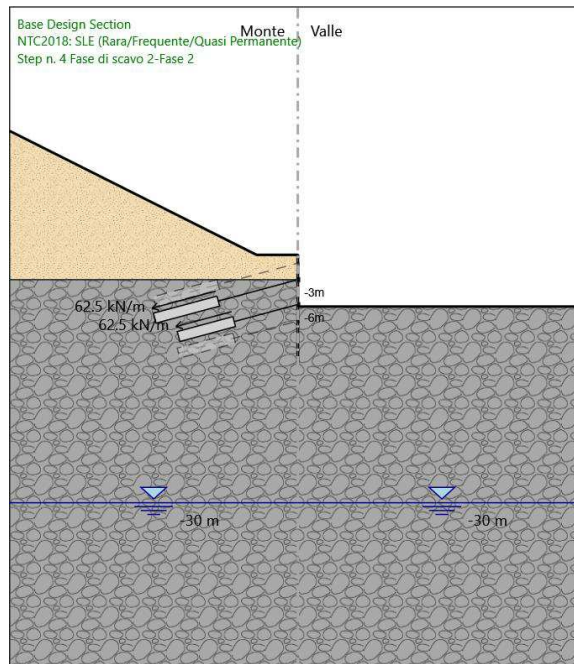
Mandataria:



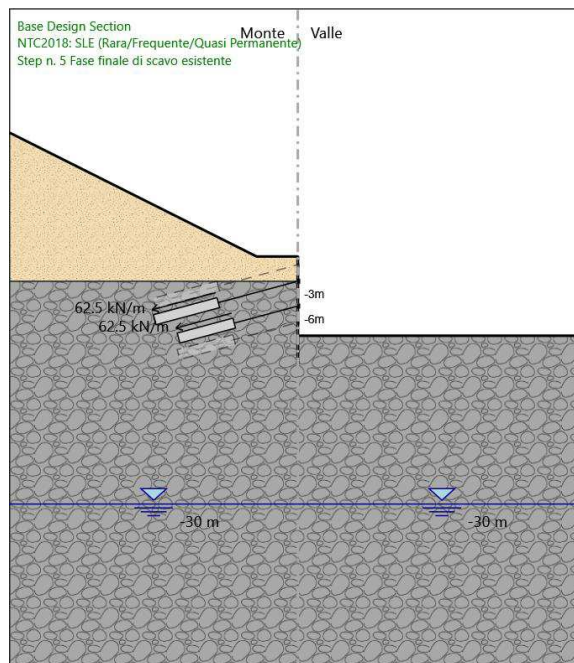
Mandanti:



Step n. 4 Fase di scavo 2-Fase 2



Step n. 5 Fase finale di scavo esistente



Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

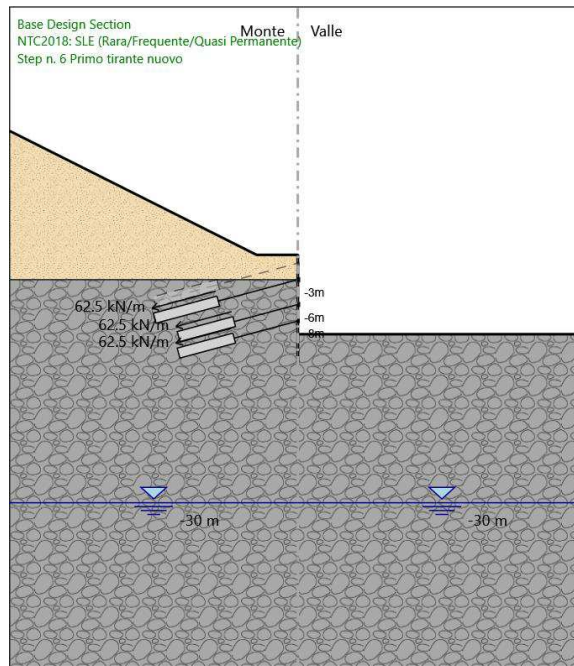
Mandataria:



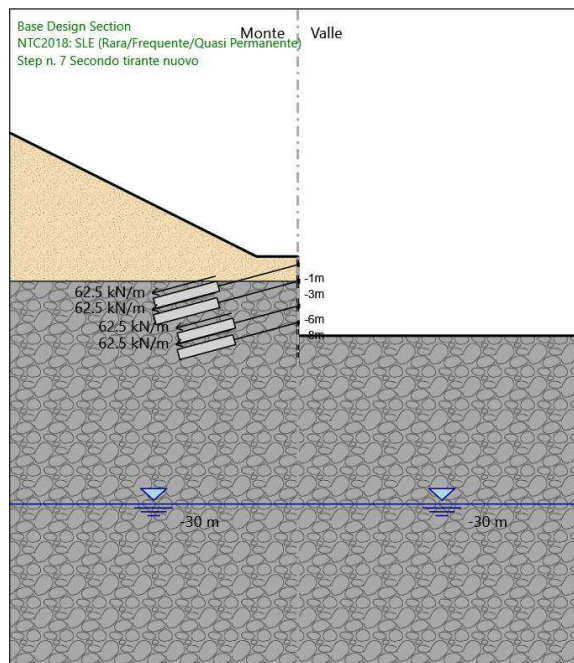
Mandanti:



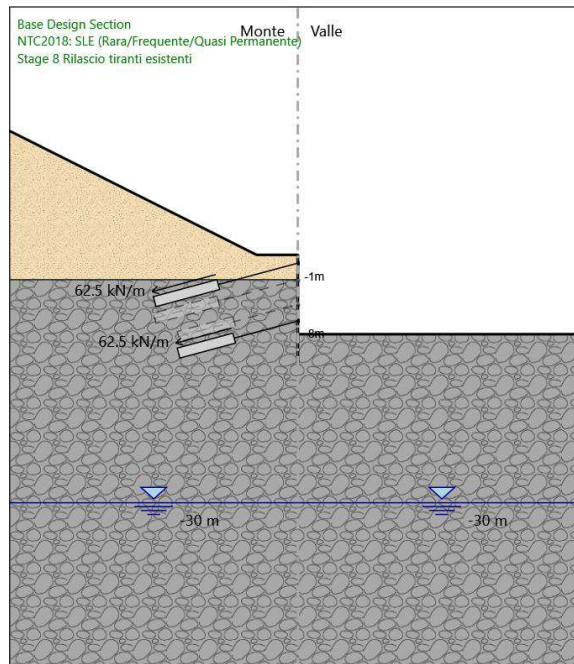
Step n. 6 Esecuzione primo ordine di tiranti di nuova realizzazione



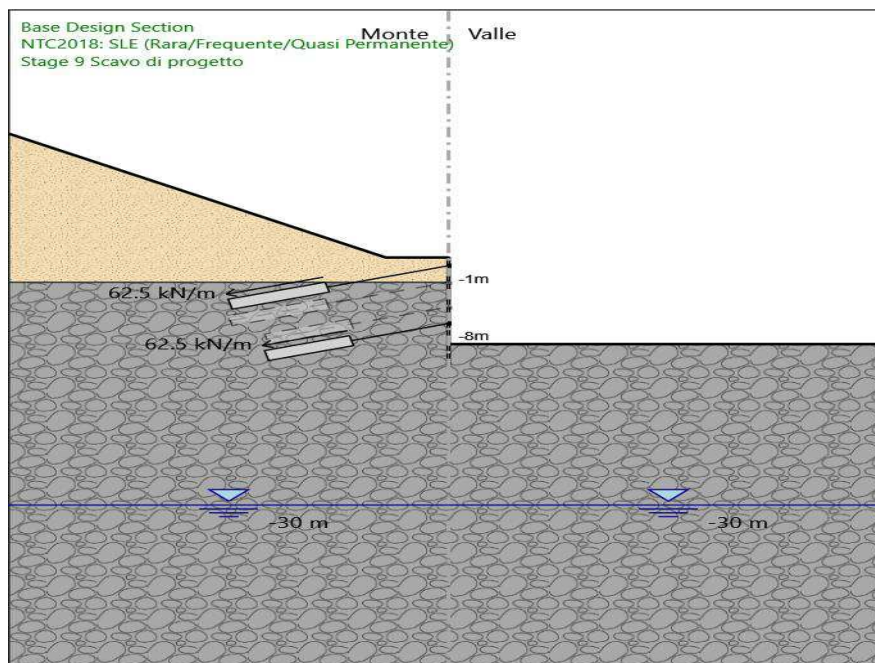
Step n. 7 Esecuzione secondo ordine di tiranti di nuova realizzazione



Stage 8 Rilascio tiranti esistenti



Stage 9 Scavo di progetto



Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

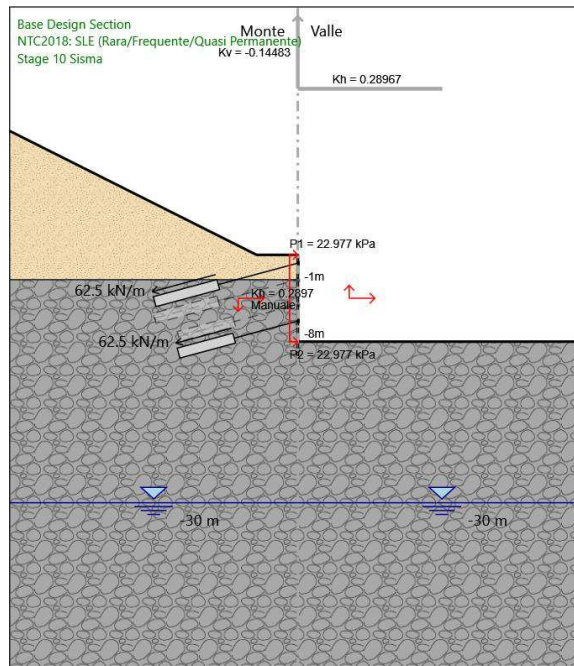
Mandatara:



Mandanti:



Stage 10 Applicazione dell'azione sismica



9.2.3 Sollecitazioni

Di seguito si riporta l'involuppo delle sollecitazioni SLU/SLV.

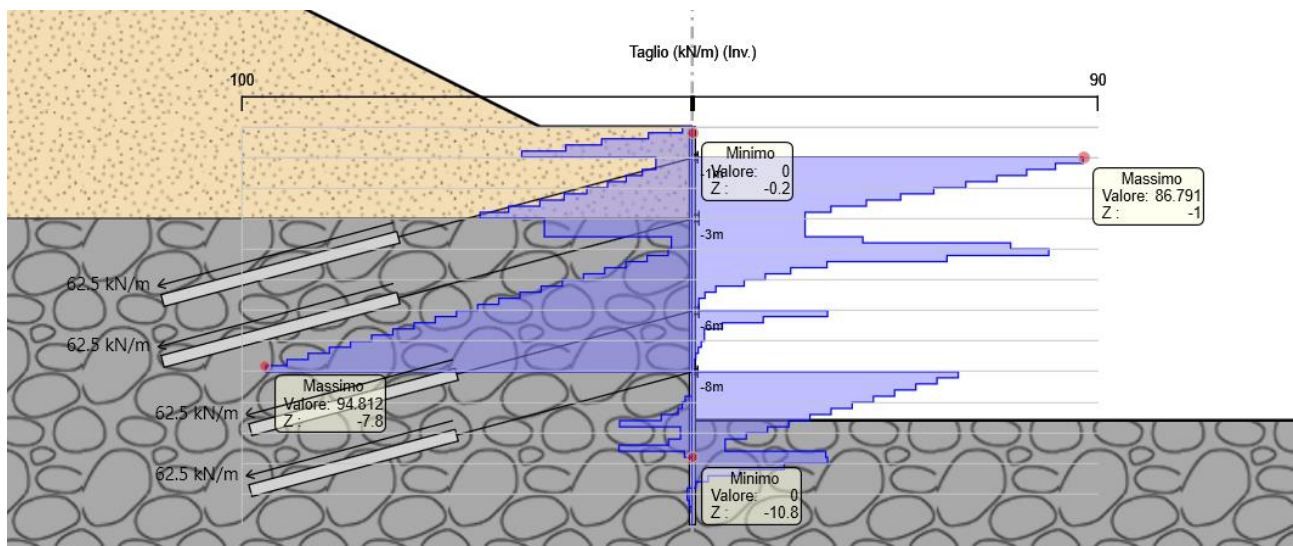


Figura 7 – Sezione 1 - Taglio [kN/m] – Involuppo SLU-SLV

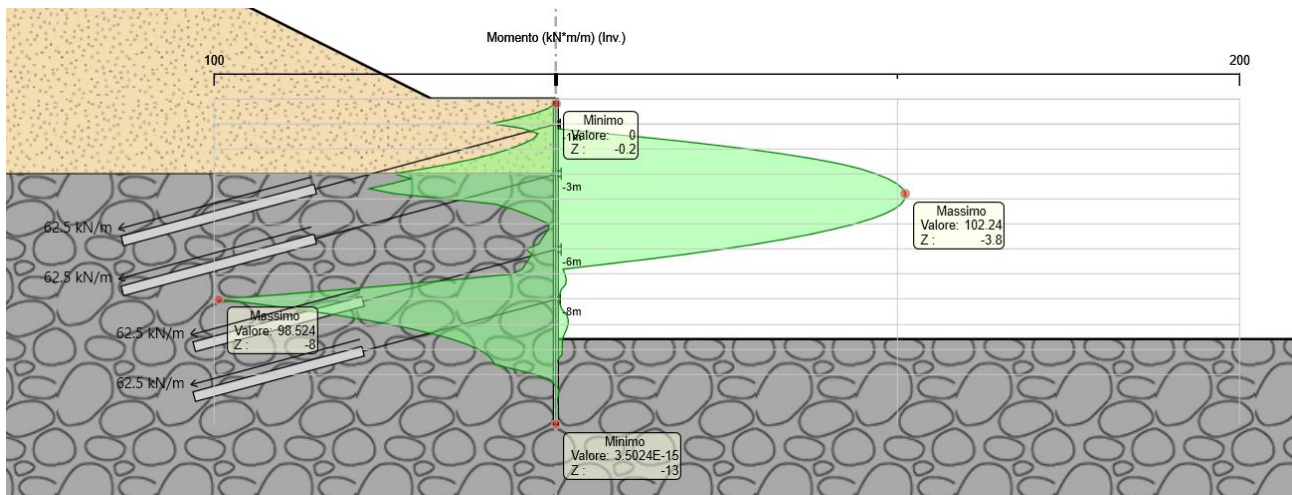


Figura 8 – Sezione 1 - Momento flettente [kNm/m] – Involuppo SLU-SLV

9.2.4 Reazioni nei tiranti

Di seguito si riporta l'involuppo delle reazioni nei tiranti SLU/SLV.

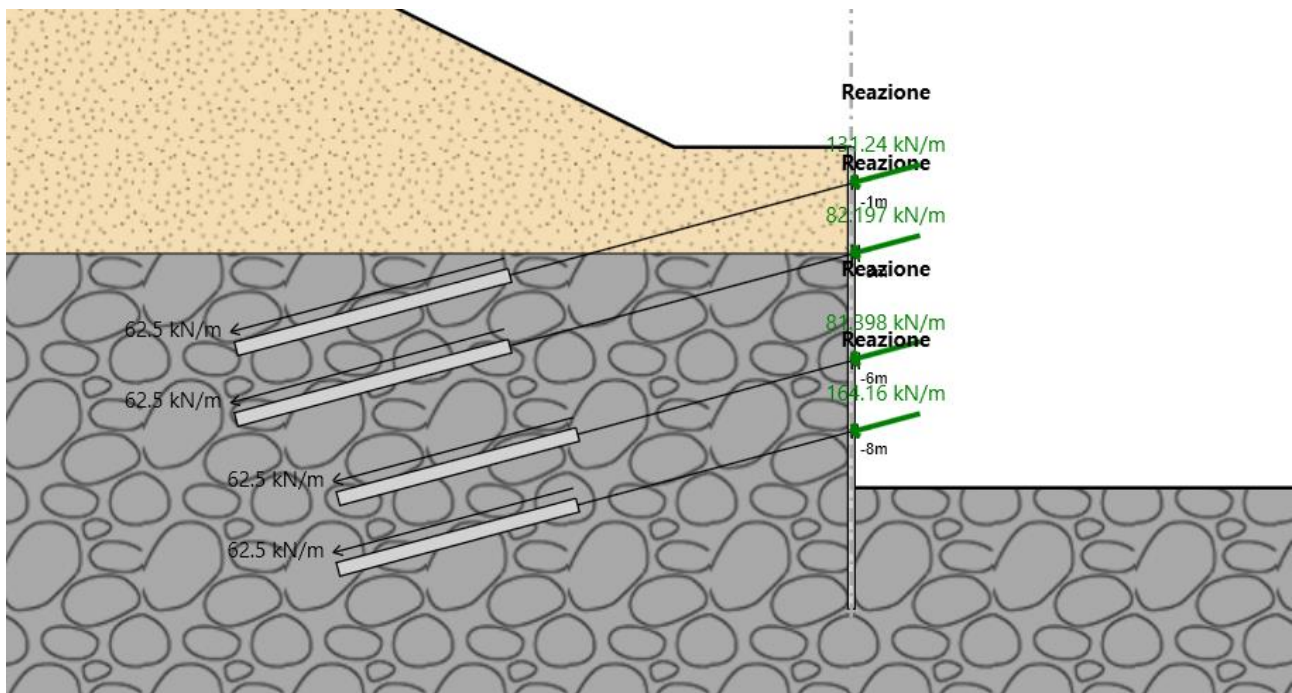


Figura 9 – Sezione 1 – Reazioni nei tiranti [kN/m] – Involuppo SLU-SLV

9.2.5 Deformazioni

Di seguito si riportano gli spostamenti orizzontali ed i cedimenti verticali quali involucro allo SLE.

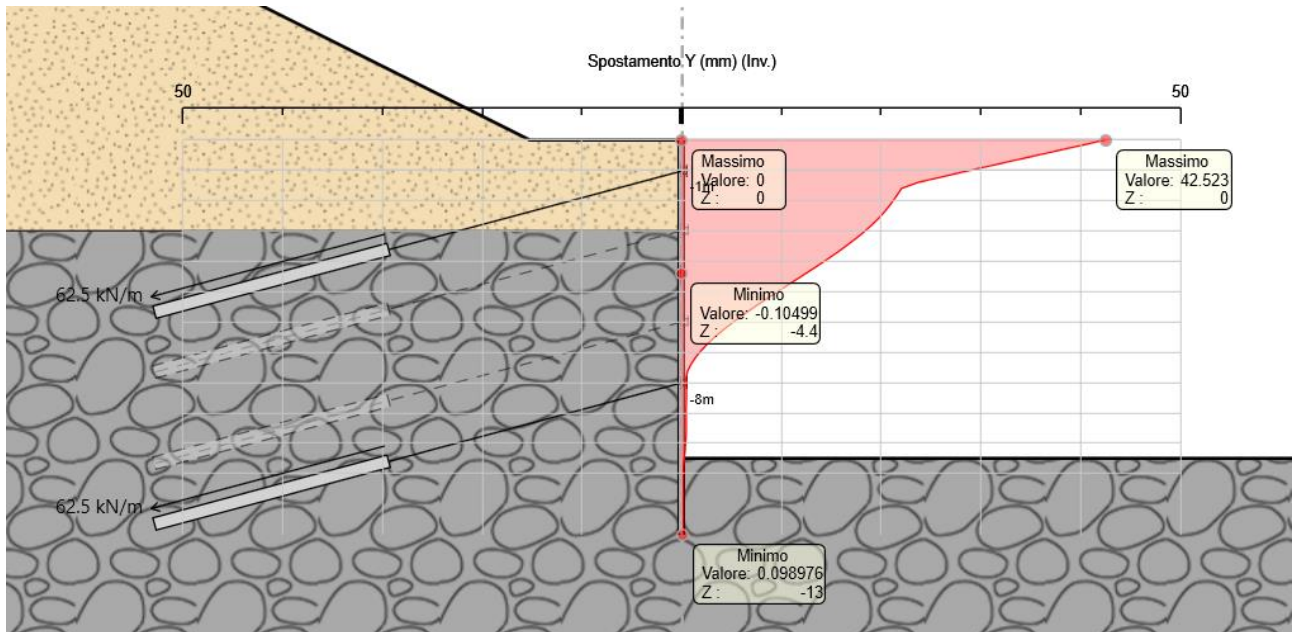


Figura 10 – Sezione 1 – Spostamenti orizzontali [mm] – Involuppo SLE

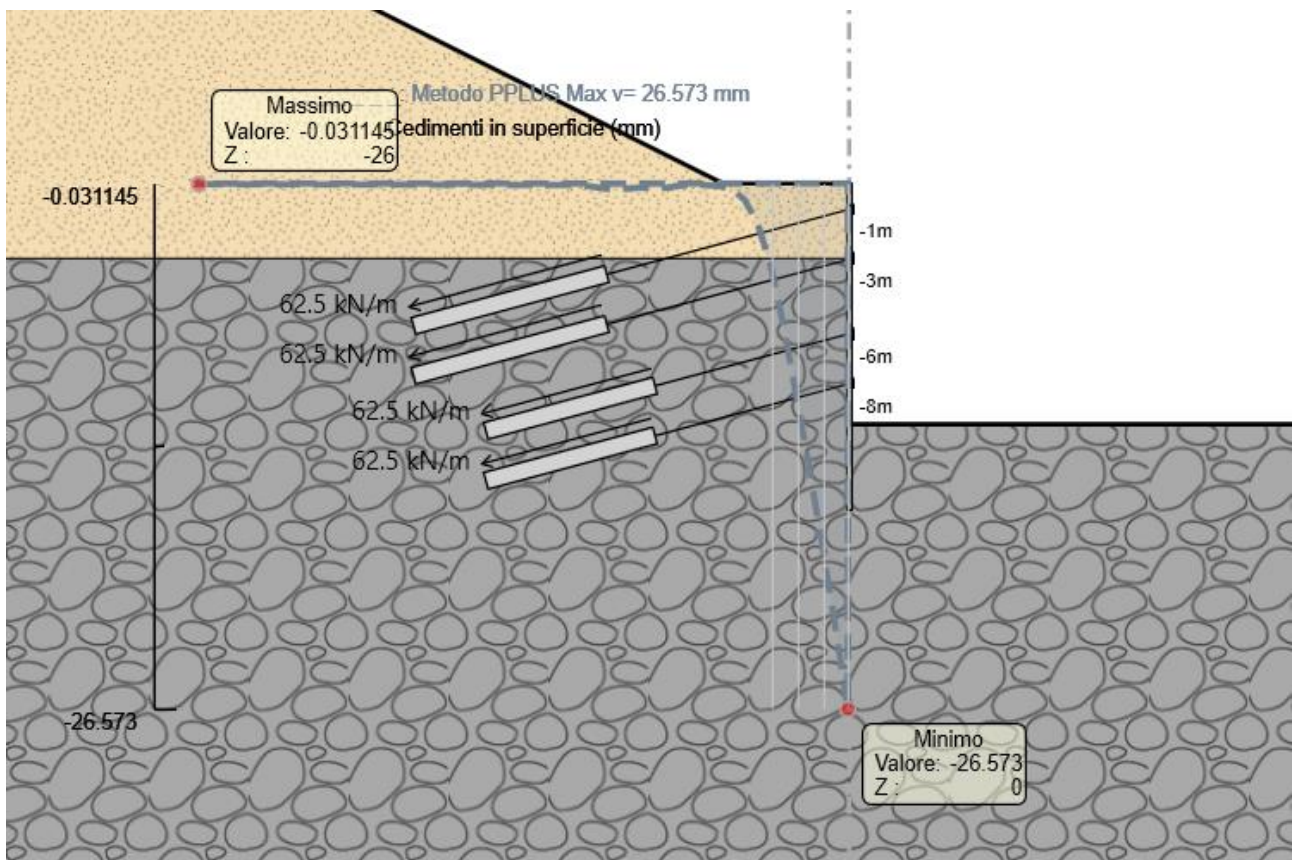


Figura 11 – Sezione 1 – Cedimenti verticali [mm] – Involuppo SLE

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



Gli spostamenti orizzontali ed i cedimenti verticali sono da ritenersi compatibili con la funzionalità dell'opera e con le condizioni al contorno.

Come si può notare dal grafico sottostante, le deformazioni dell'opera sono relative sostanzialmente alla condizione relativa allo stato di fatto e congruenti con le evidenze in situ.

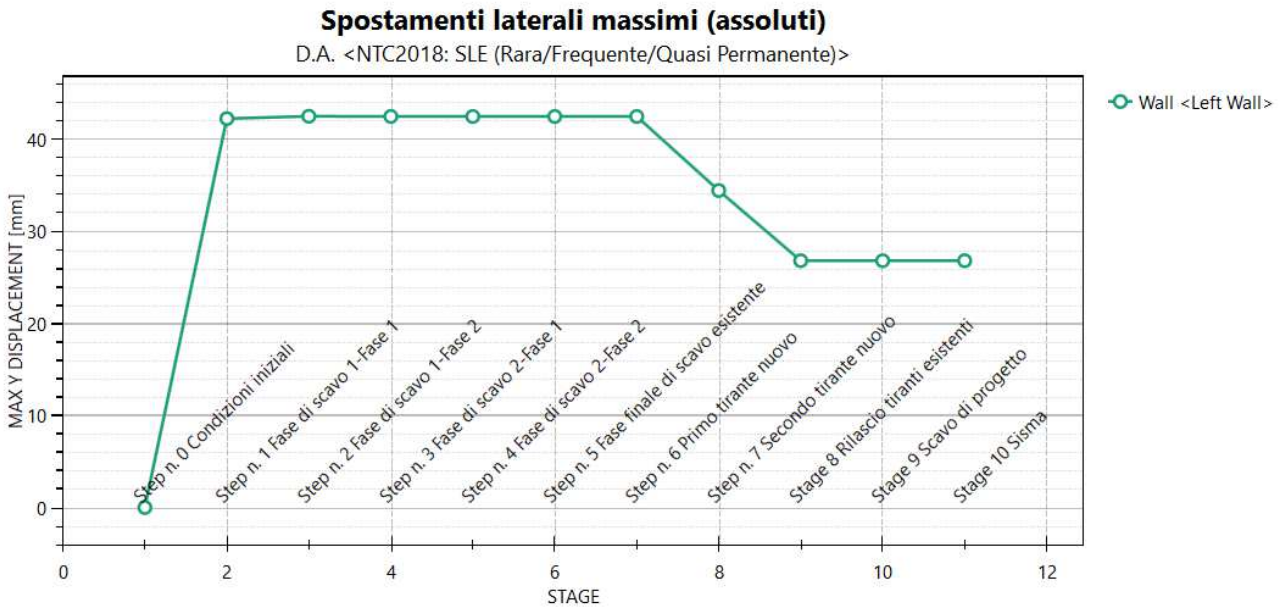


Figura 12 – Sezione 1 – Andamento degli spostamenti orizzontali [mm] – SLE

9.2.6 Verifica dei micropali

Di seguito si riporta il tasso di sfruttamento a flessione e taglio quale involucro SLU/SLV.

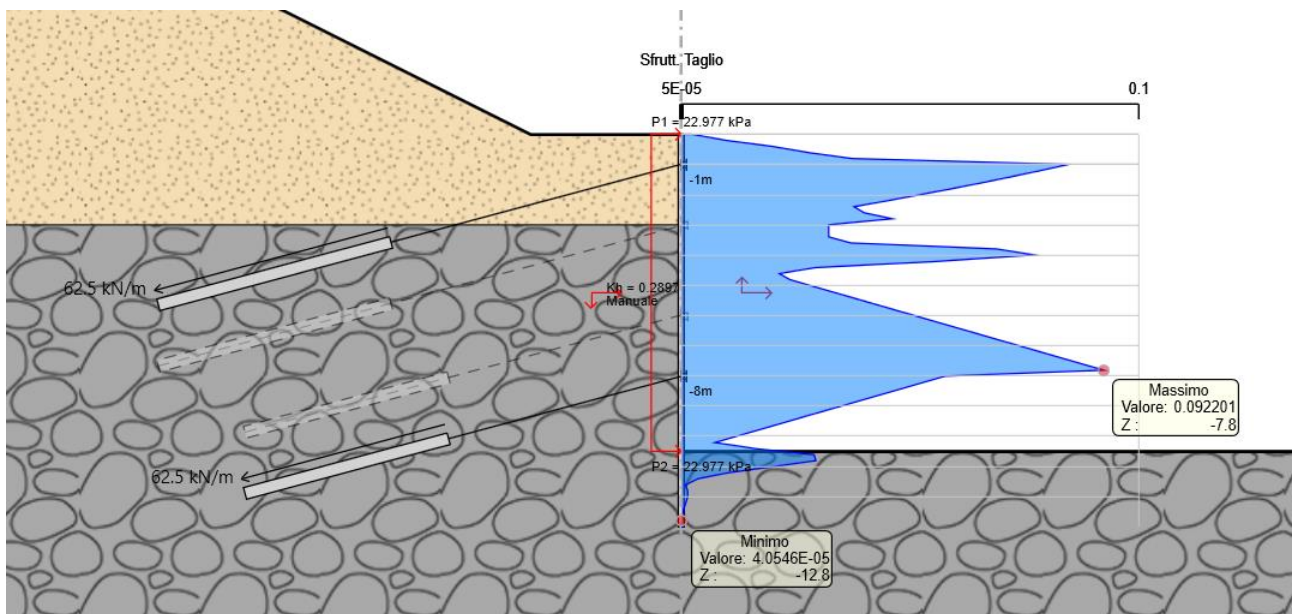


Figura 13 – Sezione 1 – Micropali – Tasso di sfruttamento a taglio – Involucro SLU-SLV

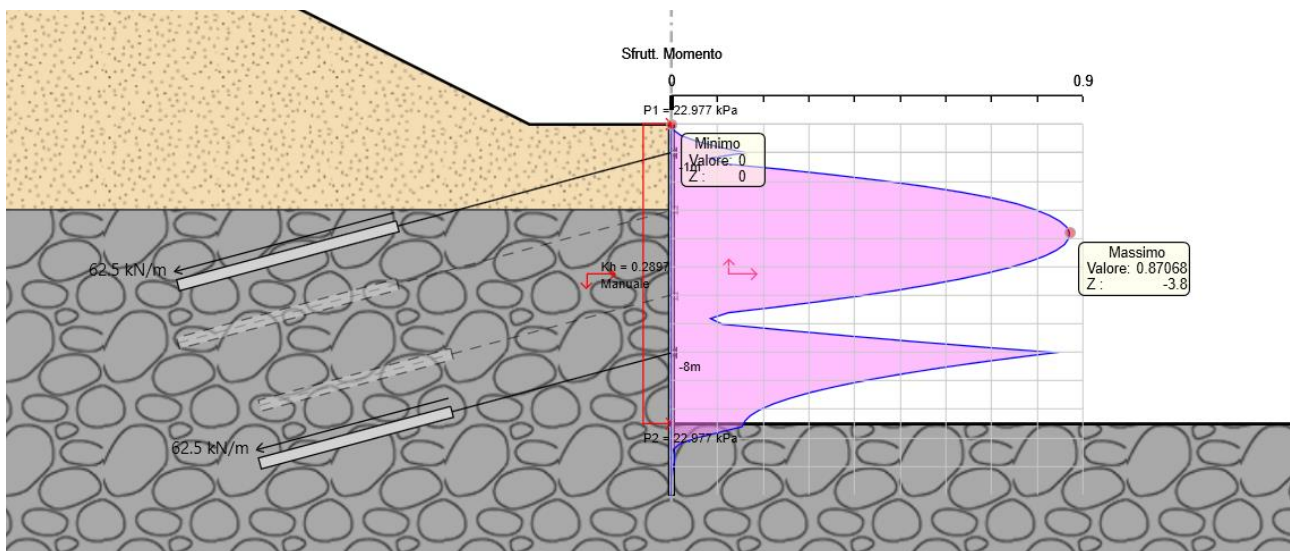


Figura 14 – Sezione 1 – Micropali – Tasso di sfruttamento a flessione – Involuppo SLU-SLV

I tassi di sfruttamento sono inferiori all'unità; le verifiche sono pertanto soddisfatte.

9.2.7 Verifica dei tiranti

Ai fini del calcolo della resistenza a sfilamento sono stati assunti i seguenti parametri, nell'ambito del metodo di Bustamante & Doix (1985):

- Coefficiente di incremento del bulbo $\alpha = 1$
- Resistenza tangenziale media = 500 kPa

Di seguito si riporta la tabella di verifica dei tiranti.

Tirante	Stage	Sollecitazione (kN)	Resistenza GEO (kN)	Resistenza STR (kN)	Sfruttamento GEO	Sfruttamento STR	Resistenza	Design Assumption
Tiranti esistenti +587.00	Step n. 3 Fase di scavo 2-Fase 1	197.22	1163.6	862.53	0.17	0.229	✓	NTC2018: A1+M1+R1 (R3 per tiranti)
Tiranti esistenti +584.00	Step n. 4 Fase di scavo 2-Fase 2	195	1018.1	862.53	0.192	0.226	✓	NTC2018: A1+M1+R1 (R3 per tiranti)
Tiranti nuovi T3	Stage 10 Sisma	393.98	2199.1	862.53	0.179	0.457	✓	Nominal
Tiranti nuovi T1	Stage 10 Sisma	314.98	2513.3	862.53	0.125	0.365	✓	Nominal

Figura 15 – Sezione 1 – Tiranti - sintesi delle verifiche

I tassi di sfruttamento sono inferiori all'unità; le verifiche sono pertanto soddisfatte.

9.2.8 Verifica delle travi di ripartizione

Di seguito si riporta la tabella di verifica delle travi di ripartizione.

Trave di Ripartizione	Connessione	Sezione	Materiale	Passo orizz. (m)	D.A.	Stage	Carico distribuito (kN/m)	Azione Assiale (kN)	Sfruttamento M-N	Sfruttamento Taglio
Trave di ripartizione esistente +587.00	Tiranti esistenti +587.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 2 Fase di scavo 1-Fase 2	81.25	0	0.185	0.197
Trave di ripartizione esistente +587.00	Tiranti esistenti +587.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 3 Fase di scavo 2-Fase 1	82.177	0	0.187	0.199
Trave di ripartizione esistente +587.00	Tiranti esistenti +587.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 4 Fase di scavo 2-Fase 2	82.194	0	0.187	0.199
Trave di ripartizione esistente +584.00	Tiranti esistenti +584.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 4 Fase di scavo 2-Fase 2	81.25	0	0.185	0.197
Trave di ripartizione esistente +587.00	Tiranti esistenti +587.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 5 Fase finale di scavo esistente	82.197	0	0.187	0.199
Trave di ripartizione esistente +584.00	Tiranti esistenti +584.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 5 Fase finale di scavo esistente	81.379	0	0.185	0.198
Trave di ripartizione esistente +587.00	Tiranti esistenti +587.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 6 Primo tirante nuovo	82.197	0	0.187	0.199
Trave di ripartizione esistente +584.00	Tiranti esistenti +584.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 6 Primo tirante nuovo	81.398	0	0.185	0.198
Trave di ripartizione T3	Tiranti nuovi T3	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 6 Primo tirante nuovo	81.25	0	0.337	0.283
Trave di ripartizione esistente +587.00	Tiranti esistenti +587.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 7 Secondo tirante nuovo	81.957	0	0.186	0.199
Trave di ripartizione esistente +584.00	Tiranti esistenti +584.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 7 Secondo tirante nuovo	81.37	0	0.185	0.197
Trave di ripartizione T3	Tiranti nuovi T3	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 7 Secondo tirante nuovo	81.25	0	0.337	0.283
Trave di ripartizione T1	Tiranti nuovi T1	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 7 Secondo tirante nuovo	81.25	0	0.337	0.283
Trave di ripartizione T3	Tiranti nuovi T3	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 8 Rilascio tiranti esistenti	81.195	0	0.337	0.283
Trave di ripartizione T1	Tiranti nuovi T1	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 8 Rilascio tiranti esistenti	81.101	0	0.336	0.282
Trave di ripartizione T3	Tiranti nuovi T3	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 9 Scavo di progetto	81.167	0	0.336	0.282
Trave di ripartizione T1	Tiranti nuovi T1	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 9 Scavo di progetto	81.1	0	0.336	0.282
Trave di ripartizione T3	Tiranti nuovi T3	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 10 Sisma	81.167	0	0.336	0.282
Trave di ripartizione T1	Tiranti nuovi T1	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 10 Sisma	81.1	0	0.336	0.282

Figura 16 – Sezione 1 – Travi di ripartizione - sintesi delle verifiche

I tassi di sfruttamento sono inferiori all'unità; le verifiche sono pertanto soddisfatte.

9.2.9 Verifica della spinta passiva

Di seguito si riporta il massimo tasso di sfruttamento della spinta passiva.

Max. Rapporto Spinte (Efficace/Passiva) (Lato SX) 0.11 D.A. NTC2018: A2+M2+R1 (Step n. 0 Condizioni iniziali)
Max. Rapporto Spinte (Efficace/Passiva) (Lato DX) 0.27 D.A. NTC2018: A2+M2+R1 (Stage 10 Sisma)

I tassi di sfruttamento sono inferiori all'unità; le verifiche sono pertanto soddisfatte.

9.2.10 Verifica di stabilità globale

Di seguito si riportano le verifiche di stabilità globale in condizioni statiche e sismiche.

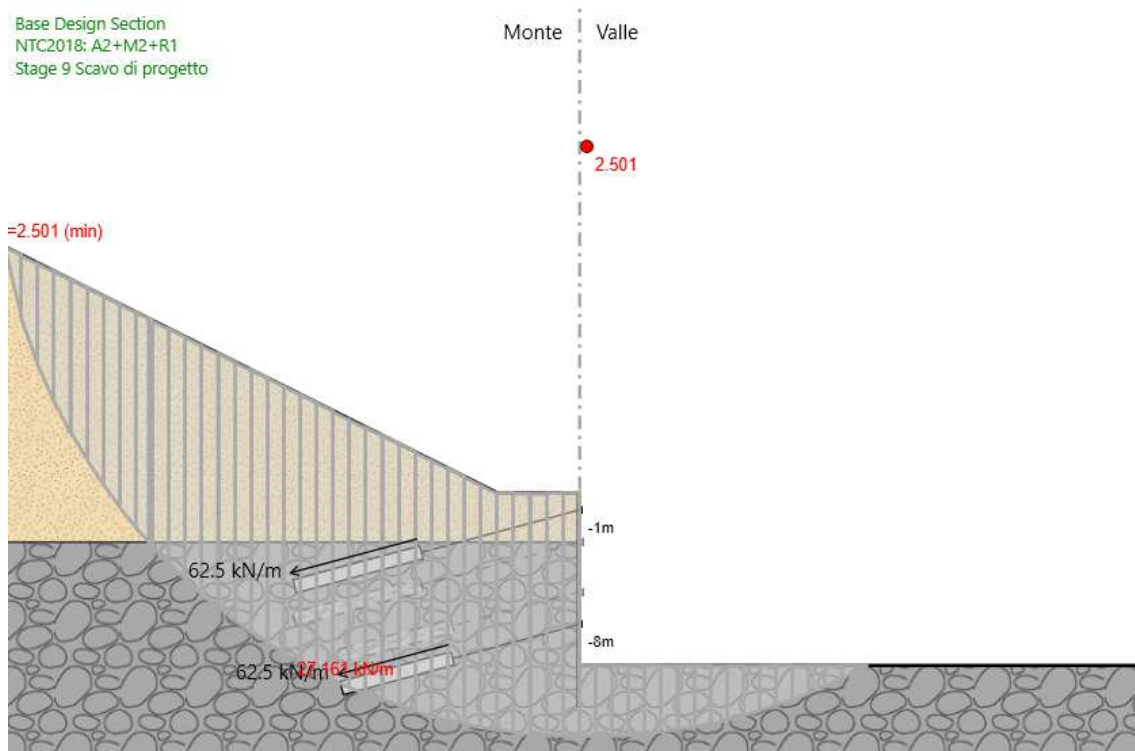


Figura 17 – Sezione 1 – Verifica di stabilità globale statica – FS = 2.501 > 1.1

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



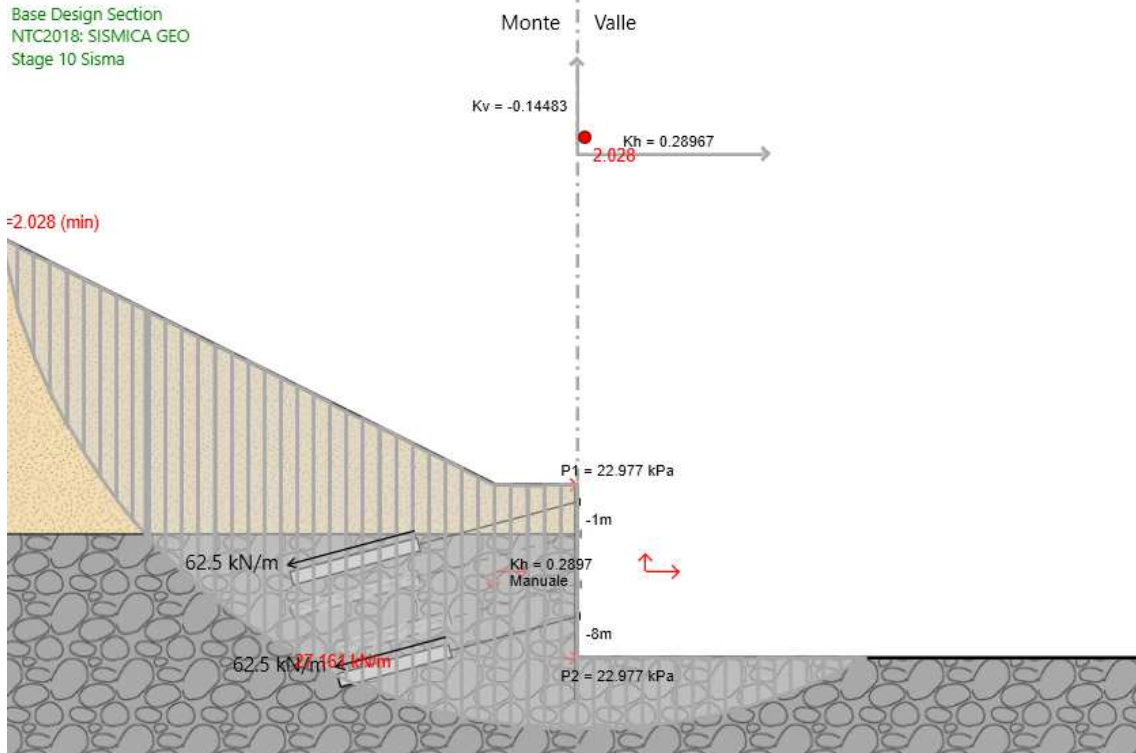


Figura 18 – Sezione 1 – Verifica di stabilità globale sismica (upward) – FS = 2.028 > 1.2

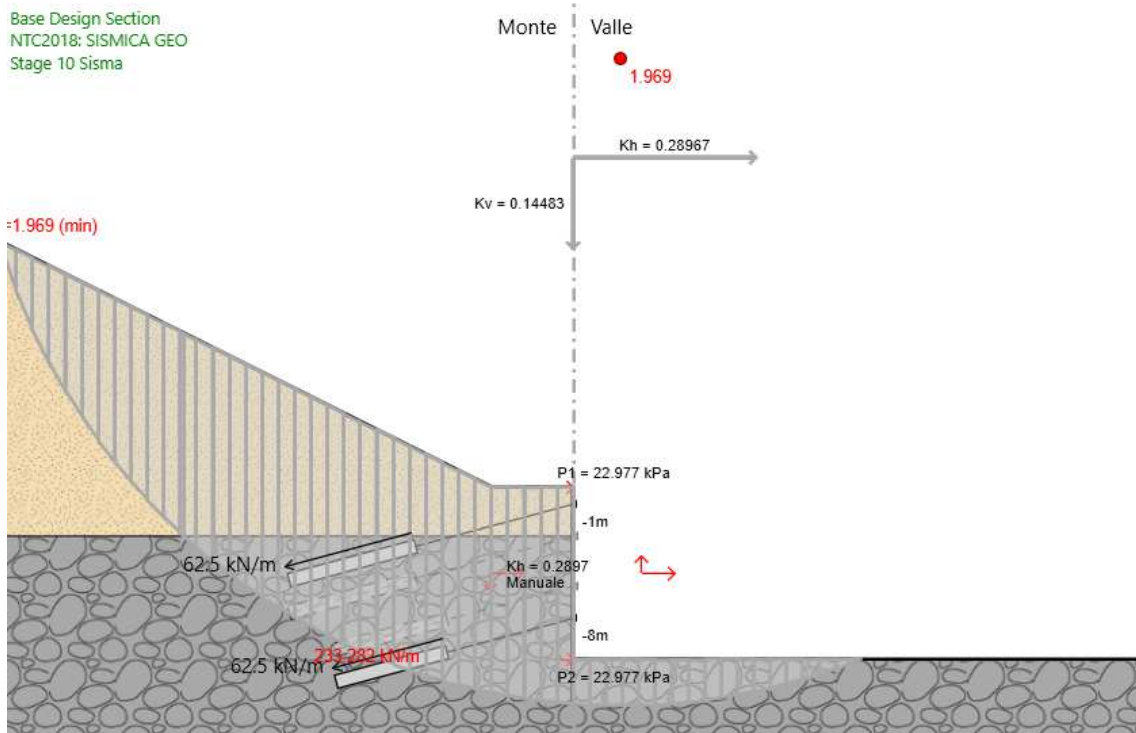


Figura 19 – Sezione 1 – Verifica di stabilità globale sismica (downward) – FS = 1.969 > 1.2

9.3 Sezione di verifica 2

9.3.1 Dati di calcolo

Altezza di scavo esistente: $594.30 \text{ m} - 580.75 = 13.55 \text{ m}$

Altezza di scavo di progetto: $594.30 \text{ m} - 580.00 = 14.30 \text{ m}$

Altezza di scavo di calcolo: $14.30 \text{ m} + 0.20 \text{ m} = 14.50 \text{ m}$

Lunghezza paratia: 18 m

Lunghezza di infissione: 3.5 m

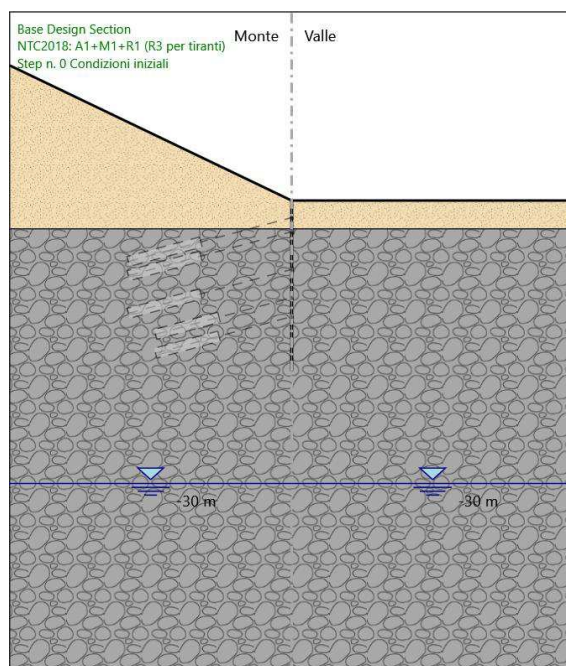
Micropali: diametro perforazione 200 mm - armatura $\varnothing 139.7 \times 8 \text{ mm Fe430}$ - interasse 40 cm

Tiranti

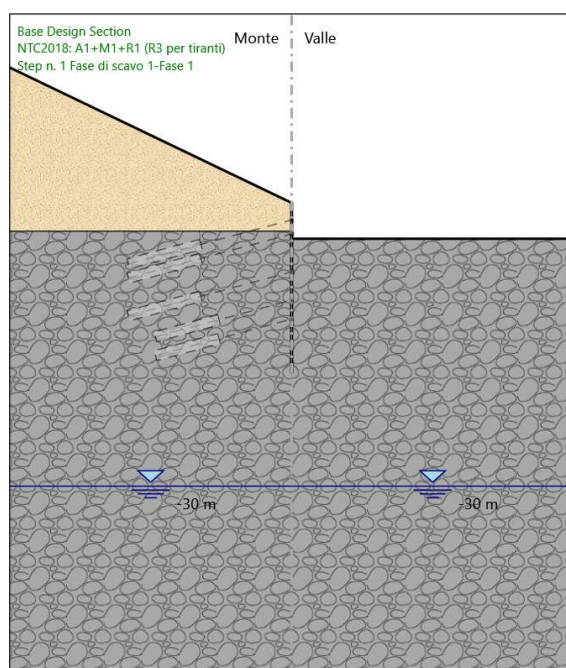
Dati	Ordine 1 (Nuovo)	Ordine 2 (Esistente)	Ordine 3 (Nuovo)	Ordine 4 (Esistente)	Ordine 5 (Esistente)	Ordine 6 (Nuovo)
Profondità	-1.80 m	- 3.30 m	- 5.30 m	- 7.30 m	- 10.30 m	- 12.30 m
Inclinazione	15°	15°	15°	15°	15°	15°
n. trefoli	4	4	4	4	4	4
Pretiro	150 kN	150 kN	150 kN	150 kN	150 kN	150 kN
Tiro in esercizio	160 kN	156 kN	150 kN	150 kN	150 kN	150 kN
Interasse	2.4 m	2.4 m	2.4 m	2.4 m	2.4 m	2.4 m
L libera	10	10	10	10	8	8
L ancorata	8	8	8	8	7	7
Trave di ripartizione	HEA180	HEA220	HEA180	HEA220	HEA180	HEA220

9.3.2 Modello e fasi di calcolo

Step n. 0 Condizioni iniziali



Step n. 1 Fase di scavo 1-Fase 1



Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

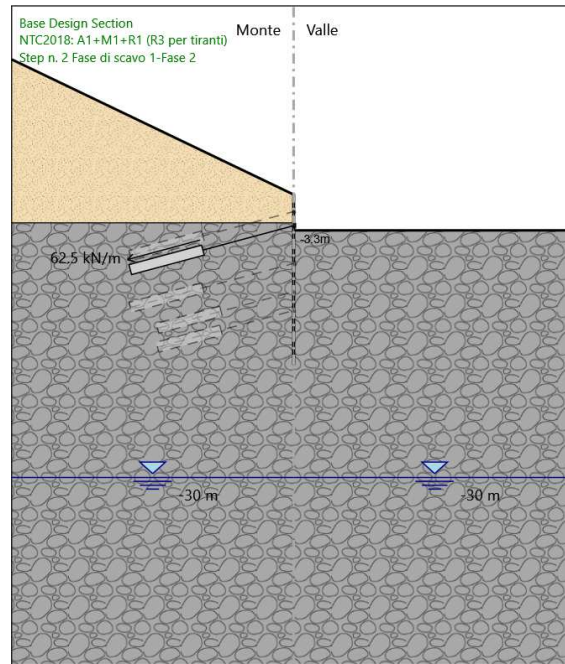
Mandataria:



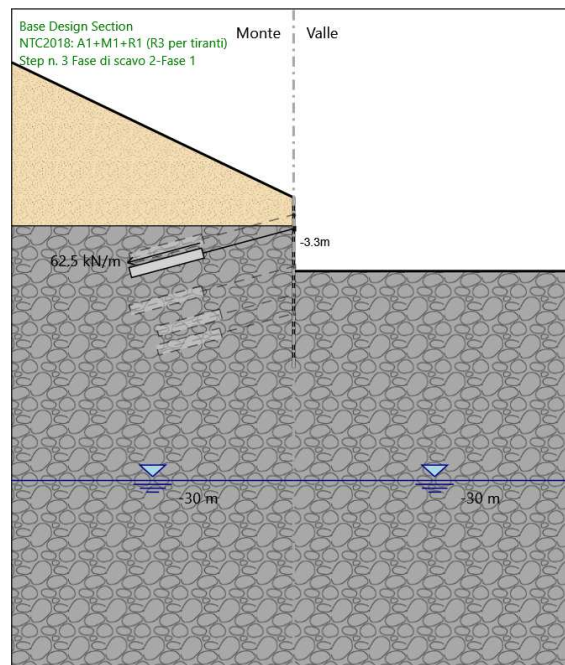
Mandanti:



Step n. 2 Fase di scavo 1-Fase 2



Step n. 3 Fase di scavo 2-Fase 1



Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

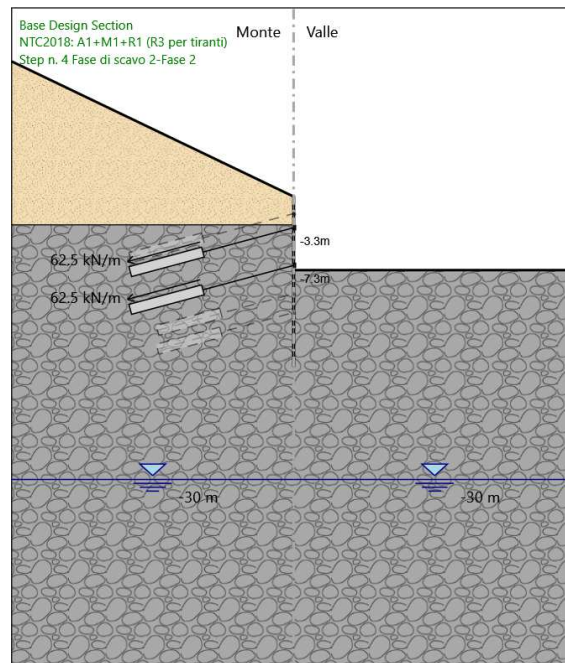
Mandataria:



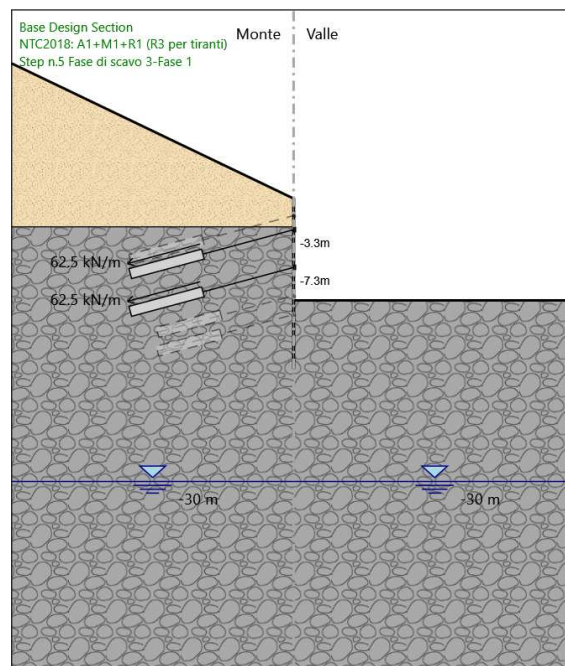
Mandanti:



Step n. 4 Fase di scavo 2-Fase 2



Step n.5 Fase di scavo 3-Fase 1



Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

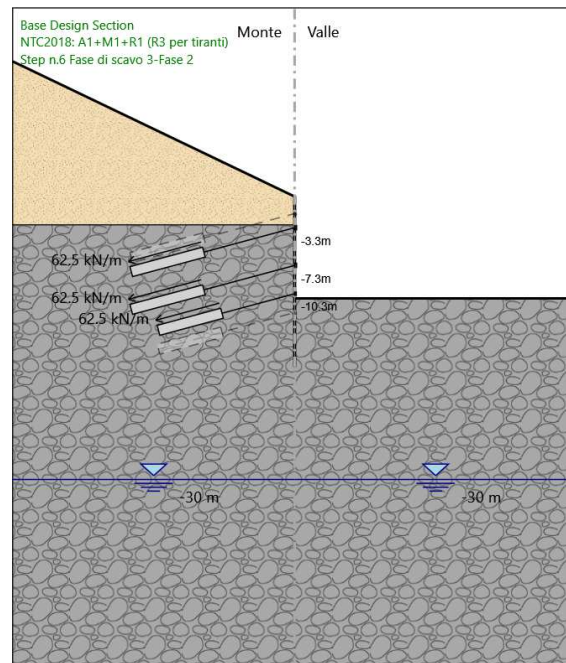
Mandataria:



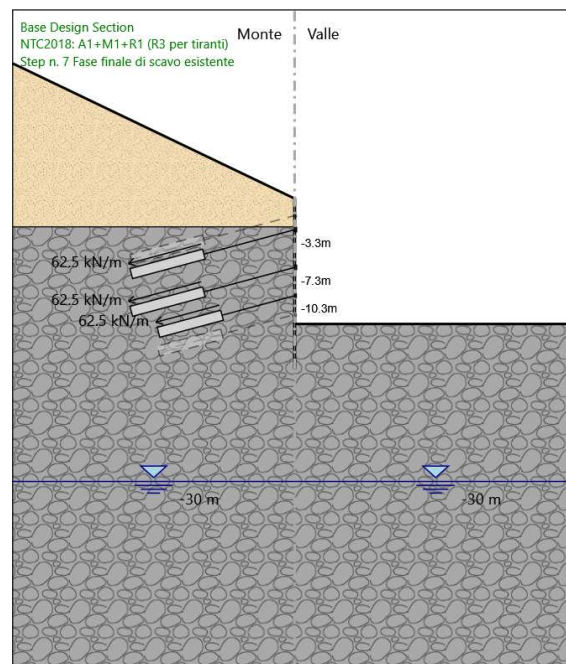
Mandanti:



Step n.6 Fase di scavo 3-Fase 2



Step n. 7 Fase finale di scavo esistente



Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

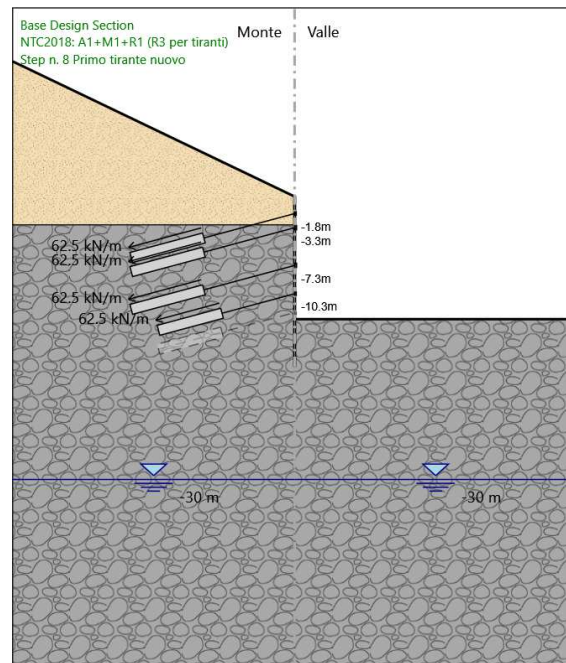
Mandataria:



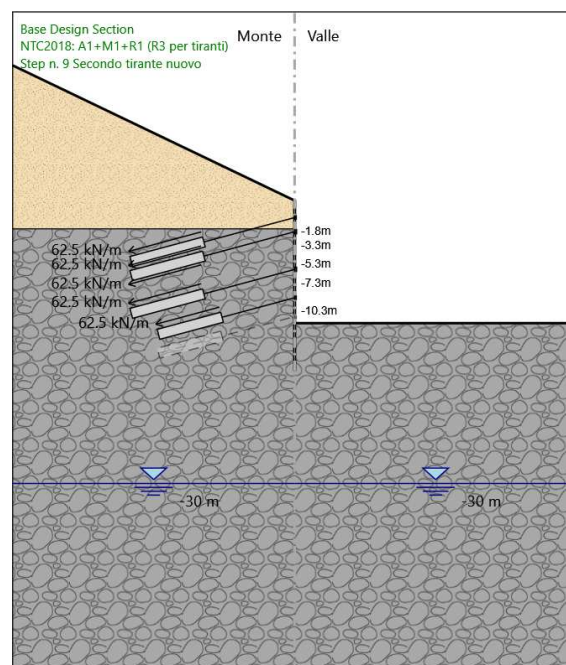
Mandanti:



Step n. 8 Esecuzione primo ordine di tiranti di nuova realizzazione



Step n. 9 Esecuzione secondo ordine di tiranti di nuova realizzazione



Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

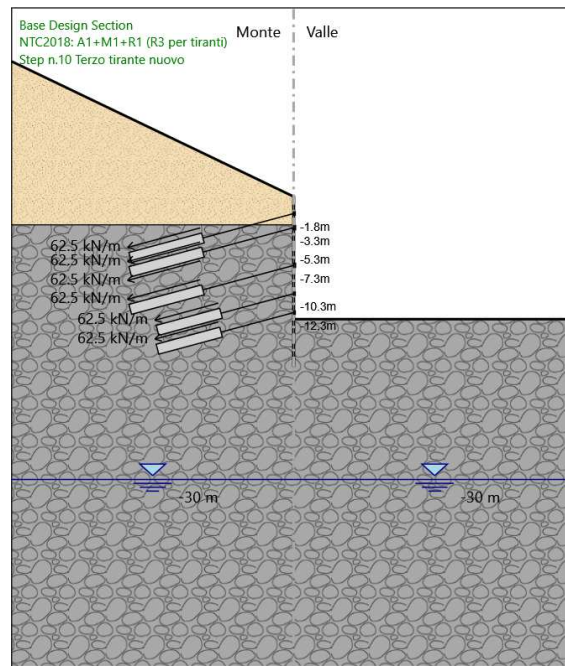
Mandataria:



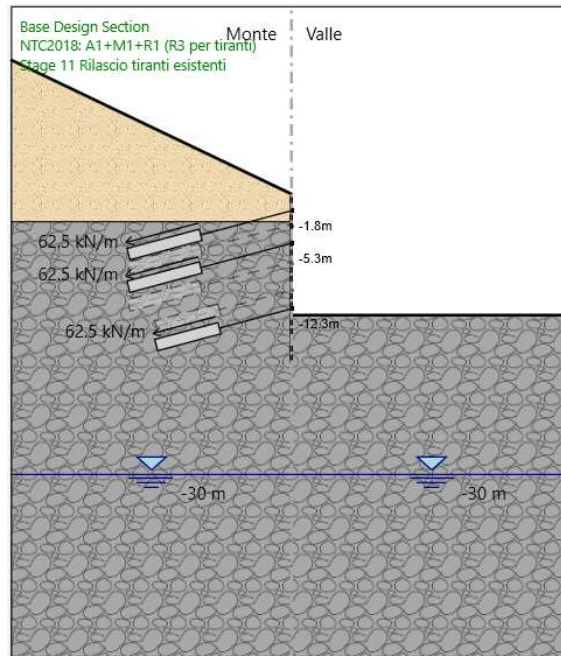
Mandanti:



Step n.10 Esecuzione terzo ordine di tiranti di nuova realizzazione



Stage 11 Rilascio tiranti esistenti



Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

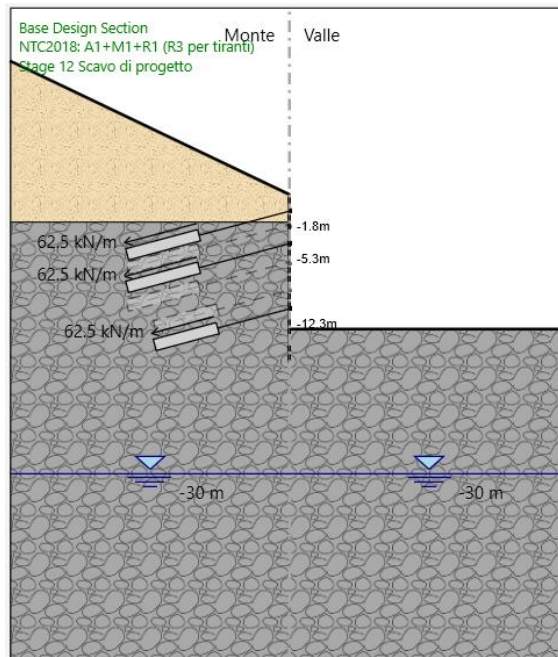
Mandataria:



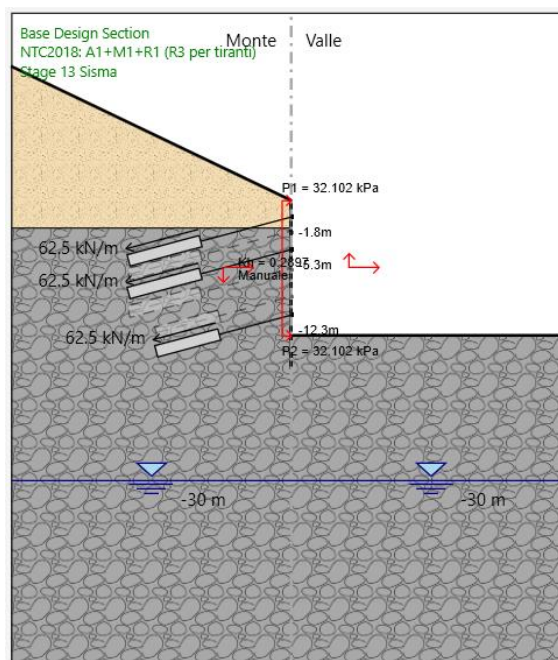
Mandanti:



Stage 12 Scavo di progetto



Stage 13 Applicazione dell'azione sismica



Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



9.3.3 Sollecitazioni

Di seguito si riporta l'involuppo delle sollecitazioni SLU/SLV.

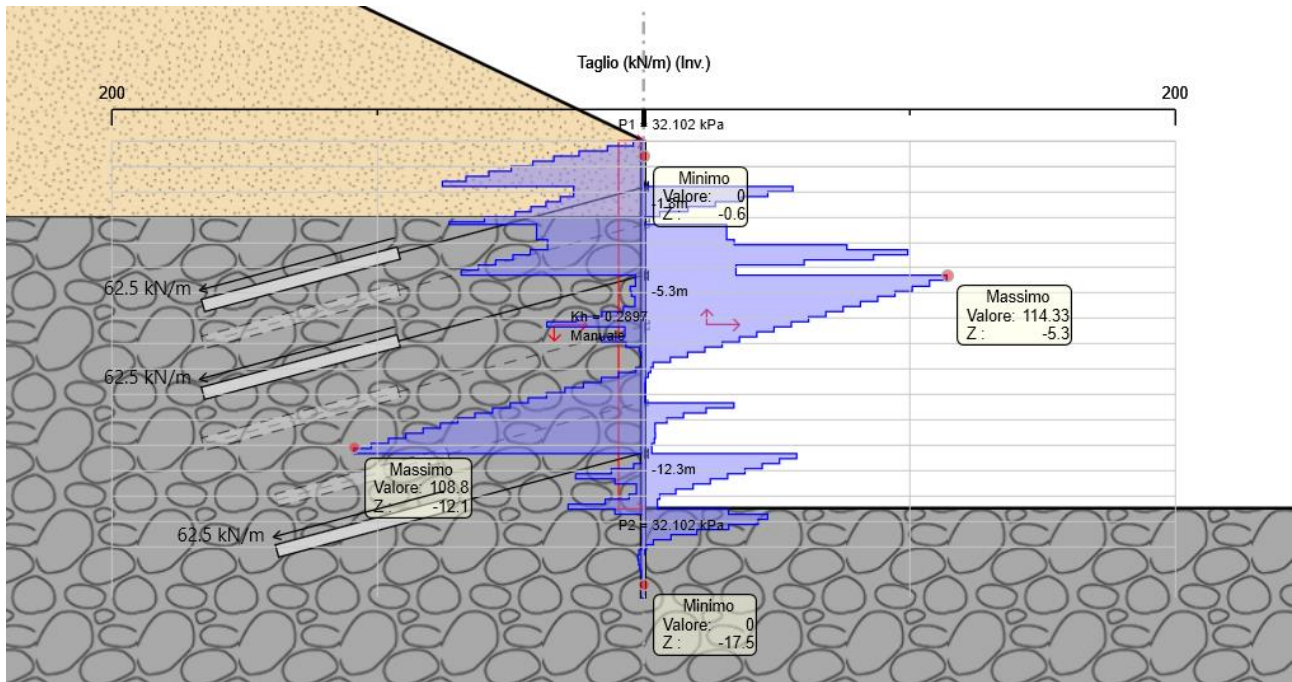


Figura 20 – Sezione 2 - Taglio [kN/m] – Involuppo SLU-SLV

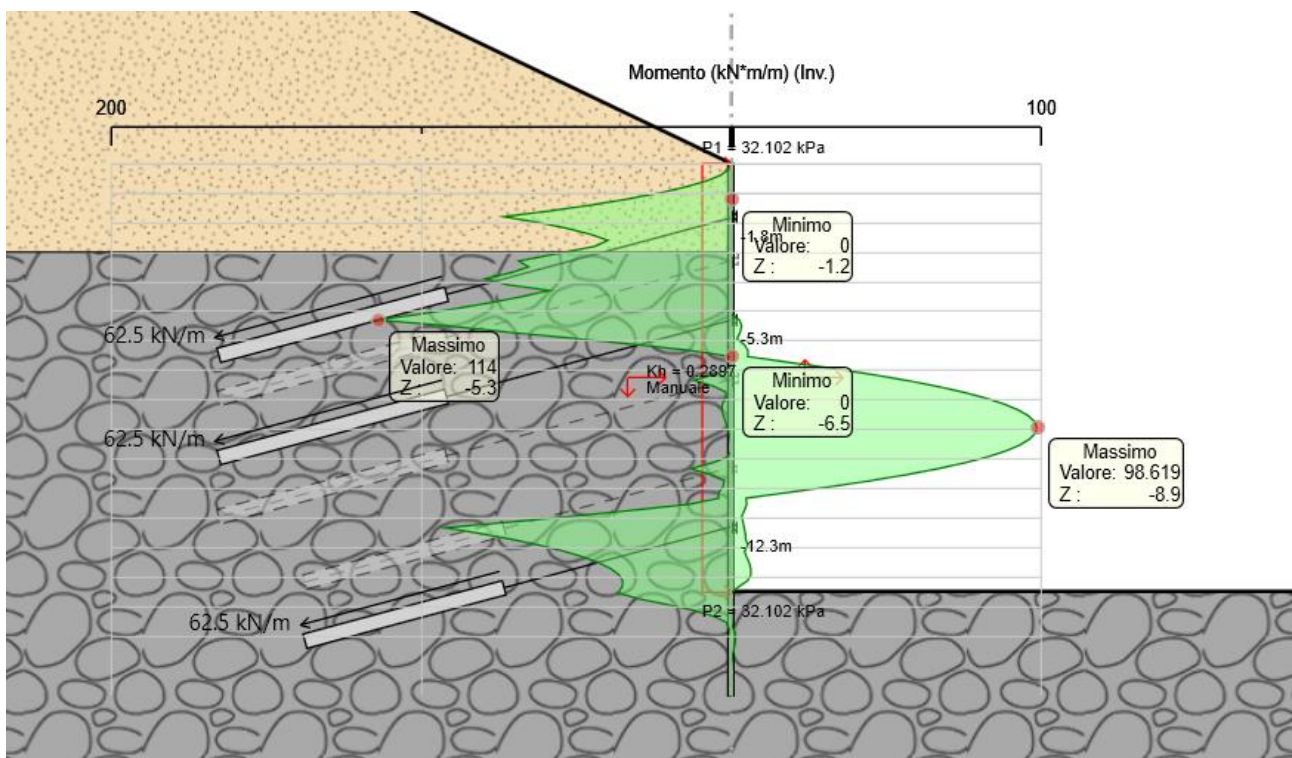


Figura 21 – Sezione 2 - Momento flettente [kNm/m] – Involuppo SLU-SLV

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



9.3.4 Reazioni nei tiranti

Di seguito si riporta l'involuppo delle reazioni nei tiranti SLU/SLV.

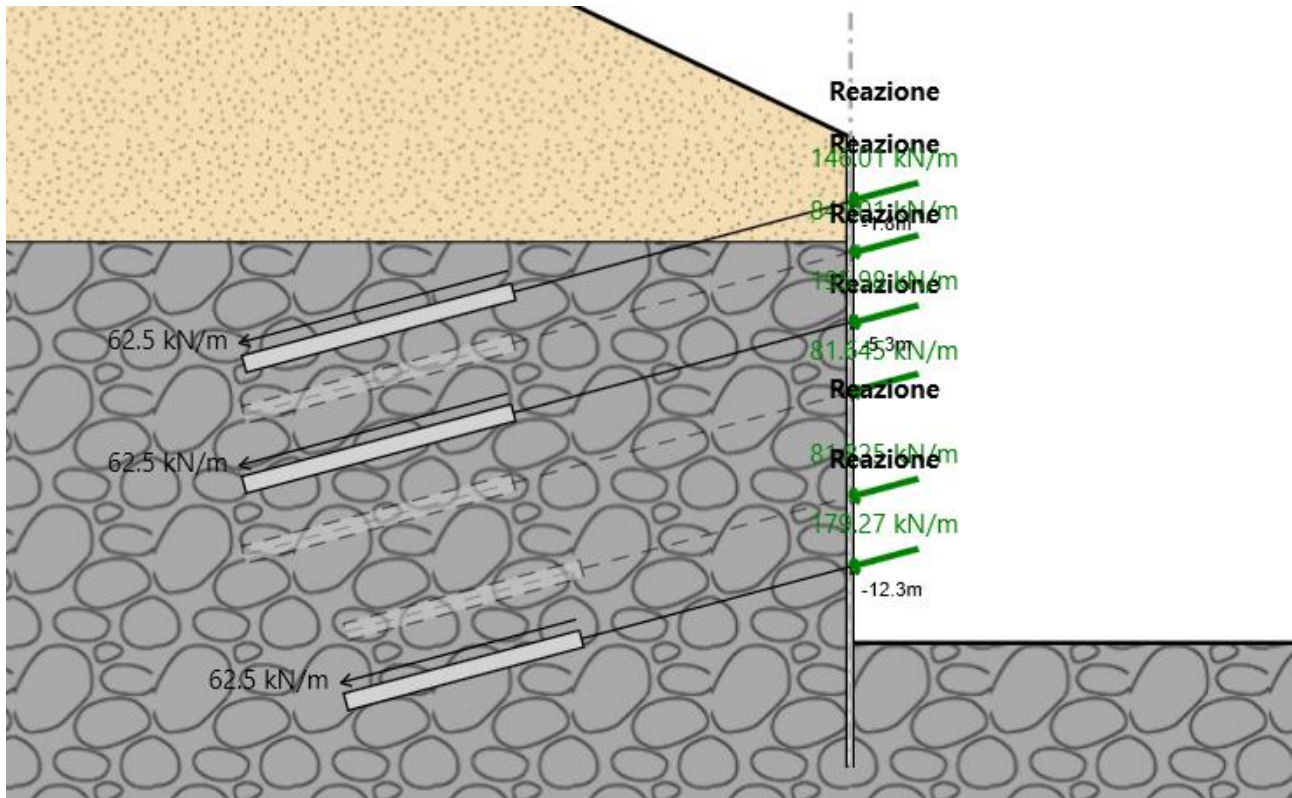


Figura 22 – Sezione 2 – Reazioni nei tiranti [kN/m] – Involuppo SLU-SLV

9.3.5 Deformazioni

Di seguito si riportano gli spostamenti orizzontali ed i cedimenti verticali quali involucro allo SLE.

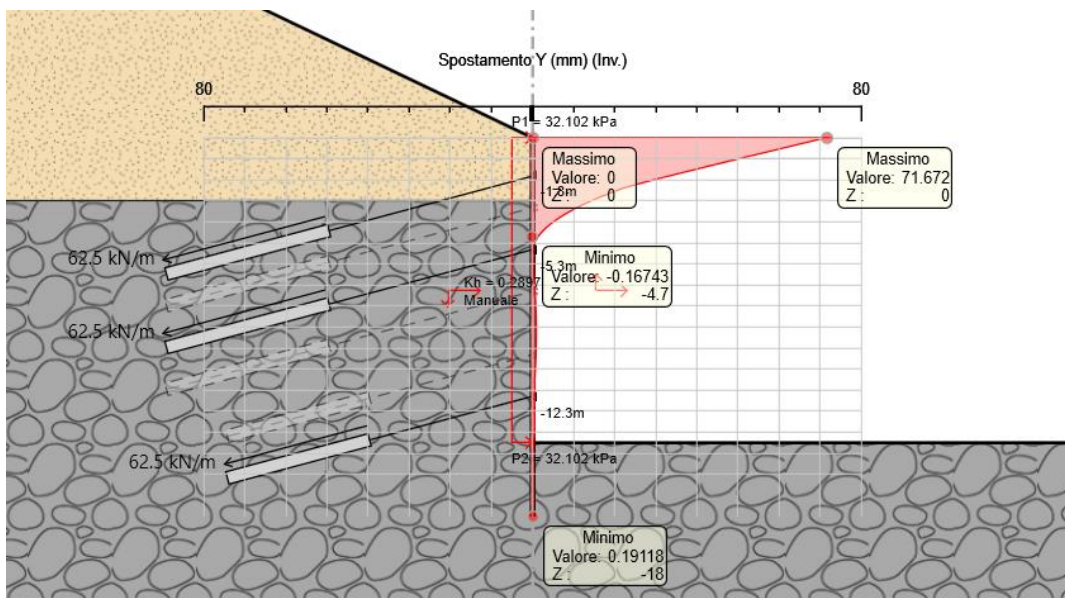


Figura 23 – Sezione 2 – Spostamenti orizzontali [mm] – Involuppo SLE

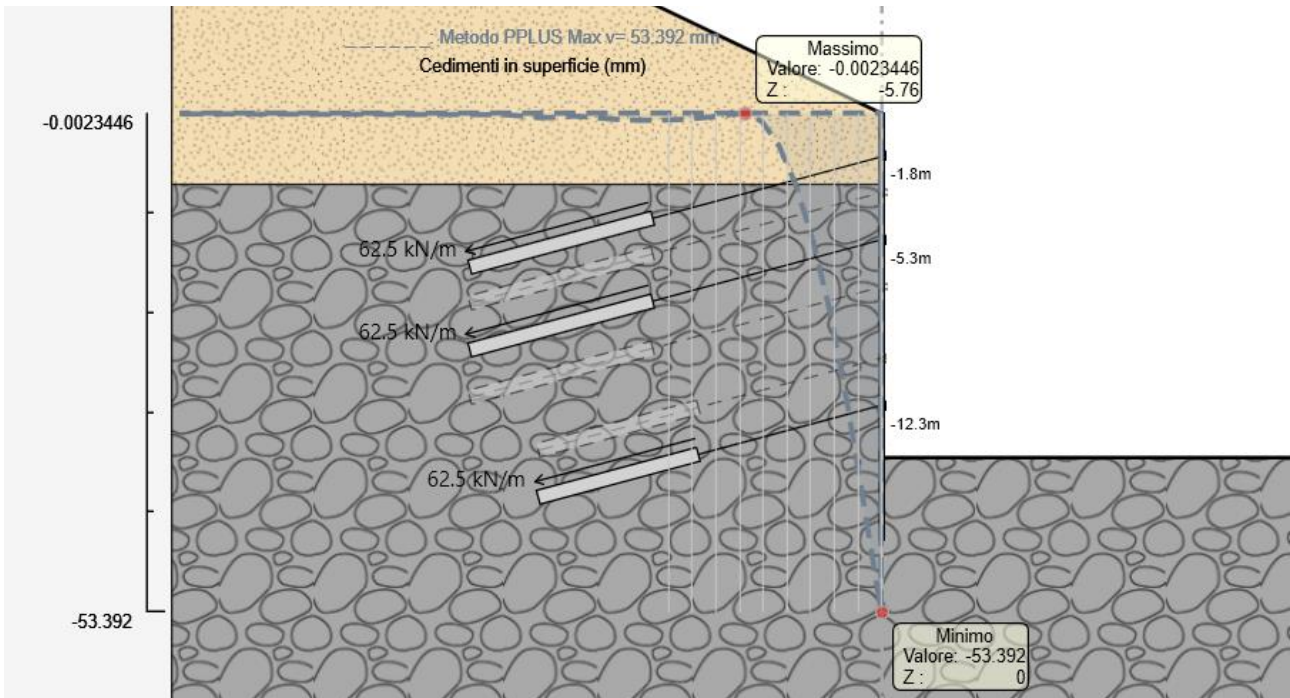


Figura 24 – Sezione 2 – Cedimenti verticali [mm] – Inviluppo SLE

Gli spostamenti orizzontali ed i cedimenti verticali sono da ritenersi compatibili con la funzionalità dell'opera e con le condizioni al contorno.

Come si può notare dal grafico sottostante, le deformazioni dell'opera sono relative sostanzialmente alla condizione relativa allo stato di fatto e congruenti con le evidenze in situ.

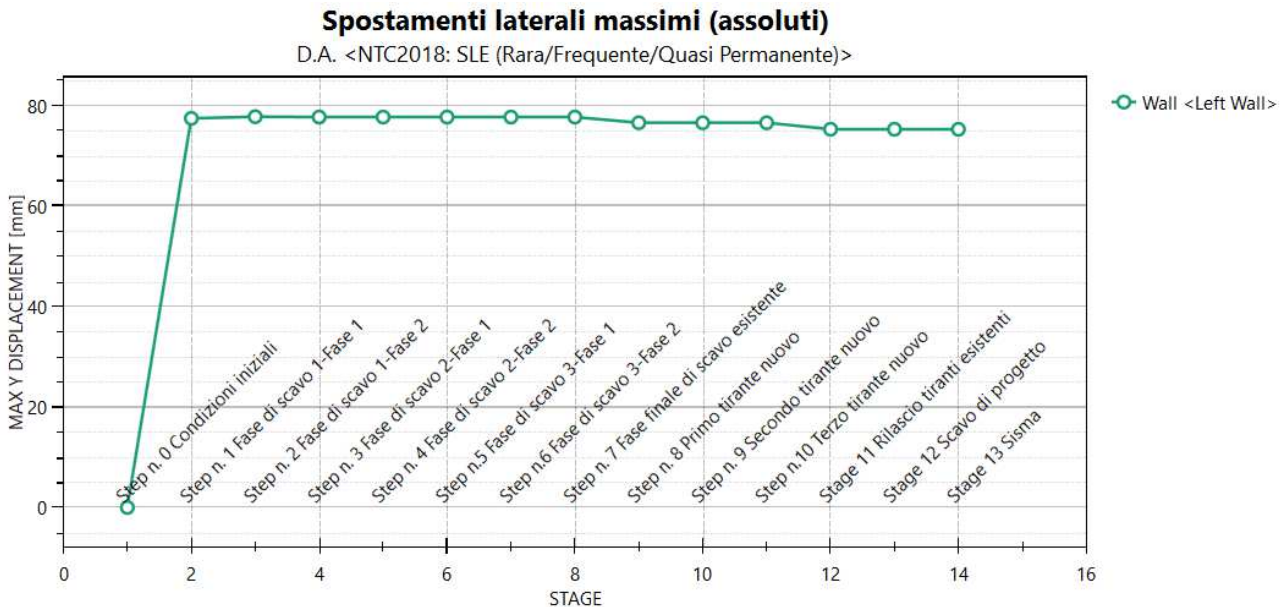


Figura 25 – Sezione 2 – Andamento degli spostamenti orizzontali [mm] – SLE

9.3.6 Verifica dei micropali

Di seguito si riporta il tasso di sfruttamento a flessione e taglio quale involucro SLU/SLV.

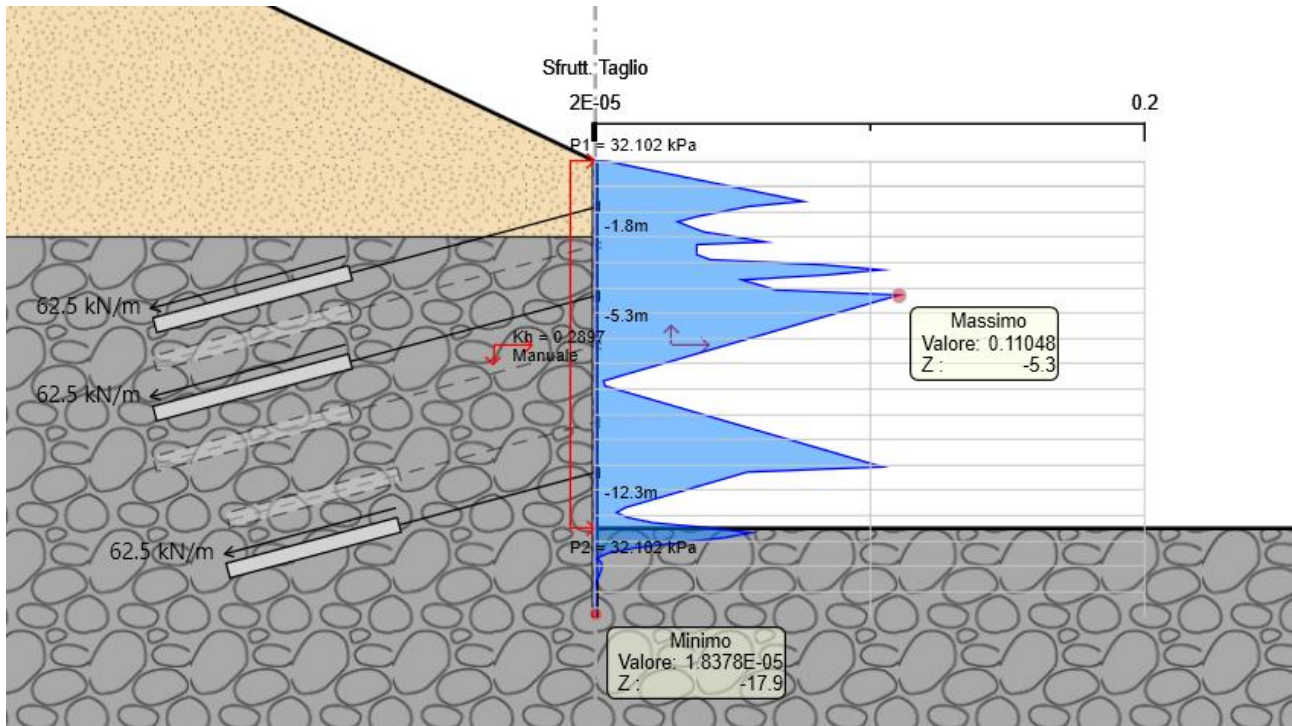


Figura 26 – Sezione 2 – Micropali – Tasso di sfruttamento a taglio – Involucro SLU-SLV

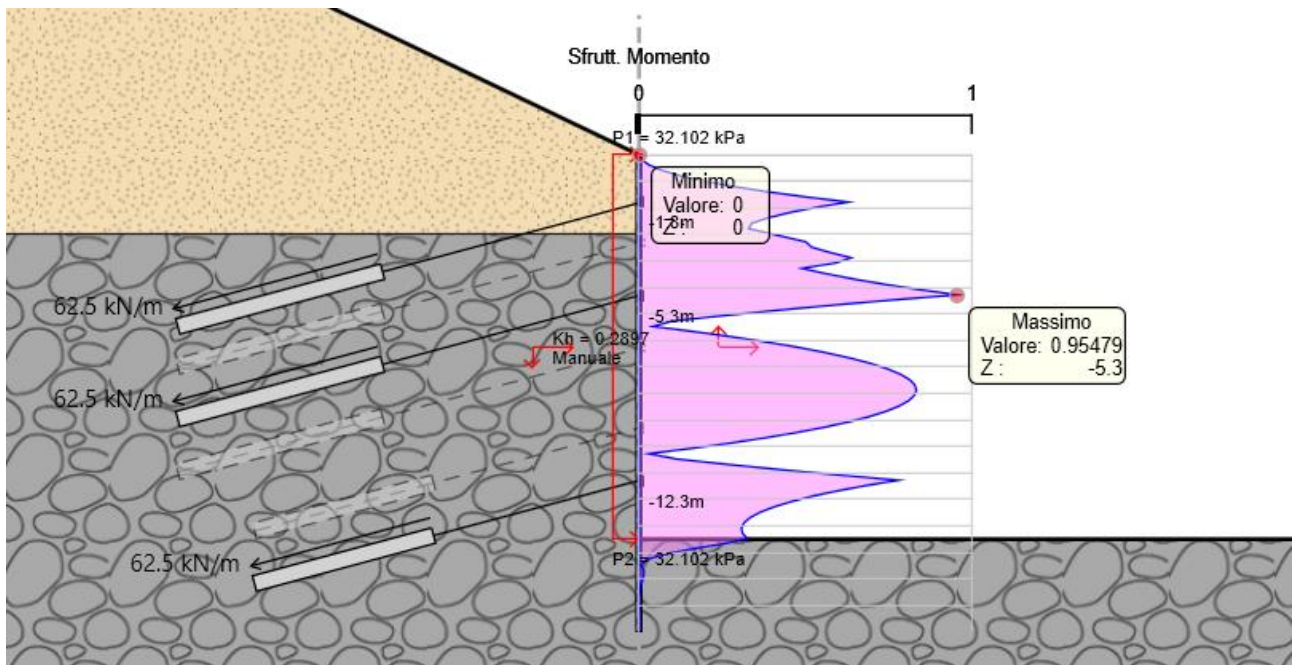


Figura 27 – Sezione 2 – Micropali – Tasso di sfruttamento a flessione – Involucro SLU-SLV

I tassi di sfruttamento sono inferiori all'unità; le verifiche sono pertanto soddisfatte.

9.3.7 Verifica dei tiranti

Ai fini del calcolo della resistenza a sfilamento sono stati assunti i seguenti parametri, nell'ambito del metodo di Bustamante & Doix (1985):

- Coefficiente di incremento del bulbo $\alpha = 1$
- Resistenza tangenziale media = 500 kPa

Di seguito si riporta la tabella di verifica dei tiranti.

Tirante	Stage	Sollecitazione (kN)	Resistenza GEO (kN)	Resistenza STR (kN)	Sfruttamento GEO	Sfruttamento STR	Resistenza	Design Assumption
Tiranti esistenti +591.00	Step n. 3 Fase di scavo 2-Fase 1	201.07	1163.6	900.04	0.173	0.223	✓	NTC2018: A1+M1+R1 (R3 per tiranti)
Tiranti esistenti +587.00	Step n. 4 Fase di scavo 2-Fase 2	195	1163.6	900.04	0.168	0.217	✓	NTC2018: A1+M1+R1 (R3 per tiranti)
Tiranti esistenti + 584.00	Step n.6 Fase di scavo 3-Fase 2	195	1018.1	900.04	0.192	0.217	✓	NTC2018: A1+M1+R1 (R3 per tiranti)
Tiranti nuovi T1	Stage 13 Sisma	357.66	2513.3	900.04	0.142	0.397	✓	Nominal
Tiranti nuovi T2	Stage 13 Sisma	466.9	2513.3	900.04	0.186	0.519	✓	Nominal
Tiranti nuovi T3	Stage 13 Sisma	424.53	2199.1	900.04	0.193	0.472	✓	Nominal

Figura 28 – Sezione 2 – Tiranti - sintesi delle verifiche

I tassi di sfruttamento sono inferiori all'unità; le verifiche sono pertanto soddisfatte.

9.3.8 Verifica delle travi di ripartizione

Di seguito si riporta la tabella di verifica delle travi di ripartizione.

Trave di Ripartizione	Connessione	Sezione	Materiale	Passo orizz. (m)	D.A.	Stage	Carico distribuito (kN/m)	Azione Assiale (kN)	Sfruttamento M-N	Sfruttamento Taglio
Trave di ripartizione +591.00	Tiranti esistenti +591.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 2 Fase di scavo 1-Fase 2	81.25	0	0.185	0.197
Trave di ripartizione +591.00	Tiranti esistenti +591.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 3 Fase di scavo 2-Fase 1	83.778	0	0.19	0.203
Trave di ripartizione +591.00	Tiranti esistenti +591.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 4 Fase di scavo 2-Fase 2	83.778	0	0.19	0.203
Trave di ripartizione +587.00	Tiranti esistenti +587.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 4 Fase di scavo 2-Fase 2	81.25	0	0.185	0.197
Trave di ripartizione +591.00	Tiranti esistenti +591.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 3 Fase di scavo 3-Fase 1	83.778	0	0.19	0.203
Trave di ripartizione +587.00	Tiranti esistenti +587.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n.5 Fase di scavo 3-Fase 1	81.353	0	0.185	0.197
Trave di ripartizione +591.00	Tiranti esistenti +591.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n.6 Fase di scavo 3-Fase 2	83.778	0	0.19	0.203
Trave di ripartizione +587.00	Tiranti esistenti +587.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n.6 Fase di scavo 3-Fase 2	81.351	0	0.185	0.197
Trave di ripartizione +584.00	Tiranti esistenti +584.00	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n.6 Fase di scavo 3-Fase 2	81.25	0	0.337	0.283
Trave di ripartizione +591.00	Tiranti esistenti +591.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 7 Fase finale di scavo esistente	83.778	0	0.19	0.203
Trave di ripartizione +587.00	Tiranti esistenti +587.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 7 Fase finale di scavo esistente	81.352	0	0.185	0.197
Trave di ripartizione +584.00	Tiranti esistenti +584.00	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 7 Fase finale di scavo esistente	81.411	0	0.337	0.283
Trave di ripartizione +591.00	Tiranti esistenti +591.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 8 Primo tirante nuovo	83.677	0	0.19	0.203
Trave di ripartizione +587.00	Tiranti esistenti +587.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 8 Primo tirante nuovo	81.353	0	0.185	0.197
Trave di ripartizione +584.00	Tiranti esistenti +584.00	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 8 Primo tirante nuovo	81.411	0	0.337	0.283
Trave di ripartizione T1	Tiranti nuovi T1	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 8 Primo tirante nuovo	81.25	0	0.337	0.283
Trave di ripartizione +591.00	Tiranti esistenti +591.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 9 Secondo tirante nuovo	83.738	0	0.19	0.203
Trave di ripartizione +587.00	Tiranti esistenti +587.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 9 Secondo tirante nuovo	81.318	0	0.185	0.198
Trave di ripartizione +584.00	Tiranti esistenti +584.00	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 9 Secondo tirante nuovo	81.411	0	0.337	0.283
Trave di ripartizione T1	Tiranti nuovi T1	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 9 Secondo tirante nuovo	81.229	0	0.337	0.283
Trave di ripartizione T2	Tiranti nuovi T2	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 9 Secondo tirante nuovo	81.25	0	0.337	0.283
Trave di ripartizione +591.00	Tiranti esistenti +591.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n.10 Terzo tirante nuovo	83.738	0	0.19	0.203
Trave di ripartizione +587.00	Tiranti esistenti +587.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n.10 Terzo tirante nuovo	81.318	0	0.185	0.198
Trave di ripartizione +584.00	Tiranti esistenti +584.00	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n.10 Terzo tirante nuovo	81.443	0	0.338	0.283
Trave di ripartizione T1	Tiranti nuovi T1	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n.10 Terzo tirante nuovo	81.229	0	0.337	0.283
Trave di ripartizione T2	Tiranti nuovi T2	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n.10 Terzo tirante nuovo	81.25	0	0.337	0.283
Trave di ripartizione T3	Tiranti nuovi T3	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n.10 Terzo tirante nuovo	81.25	0	0.337	0.283
Trave di ripartizione T1	Tiranti nuovi T1	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 11 Rilascio tiranti esistenti	85.835	0	0.356	0.299
Trave di ripartizione T2	Tiranti nuovi T2	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 11 Rilascio tiranti esistenti	81.602	0	0.338	0.284
Trave di ripartizione T3	Tiranti nuovi T3	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 11 Rilascio tiranti esistenti	81.183	0	0.337	0.282
Trave di ripartizione T1	Tiranti nuovi T1	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 12 Scavo di progetto	85.835	0	0.356	0.299
Trave di ripartizione T2	Tiranti nuovi T2	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 12 Scavo di progetto	81.602	0	0.338	0.284
Trave di ripartizione T3	Tiranti nuovi T3	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 12 Scavo di progetto	81.163	0	0.336	0.282
Trave di ripartizione T1	Tiranti nuovi T1	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 13 Sisma	85.853	0	0.356	0.299
Trave di ripartizione T2	Tiranti nuovi T2	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 13 Sisma	81.627	0	0.338	0.284
Trave di ripartizione T3	Tiranti nuovi T3	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 13 Sisma	81.162	0	0.336	0.282

Figura 29 – Sezione 2 – Travi di ripartizione - sintesi delle verifiche

I tassi di sfruttamento sono inferiori all'unità; le verifiche sono pertanto soddisfatte.

9.3.9 Verifica della spinta passiva

Di seguito si riporta il massimo tasso di sfruttamento della spinta passiva.

Max. Rapporto Spinte (Efficace/Passiva) (Lato SX) 0.11 D.A. NTC2018: A2+M2+R1 (Step n. 0 Condizioni iniziali)
Max. Rapporto Spinte (Efficace/Passiva) (Lato DX) 0.3 D.A. NTC2018: A2+M2+R1 (Stage 13 Sisma)

I tassi di sfruttamento sono inferiori all'unità; le verifiche sono pertanto soddisfatte.

9.3.10 Verifica di stabilità globale

Di seguito si riportano le verifiche di stabilità globale in condizioni statiche e sismiche.

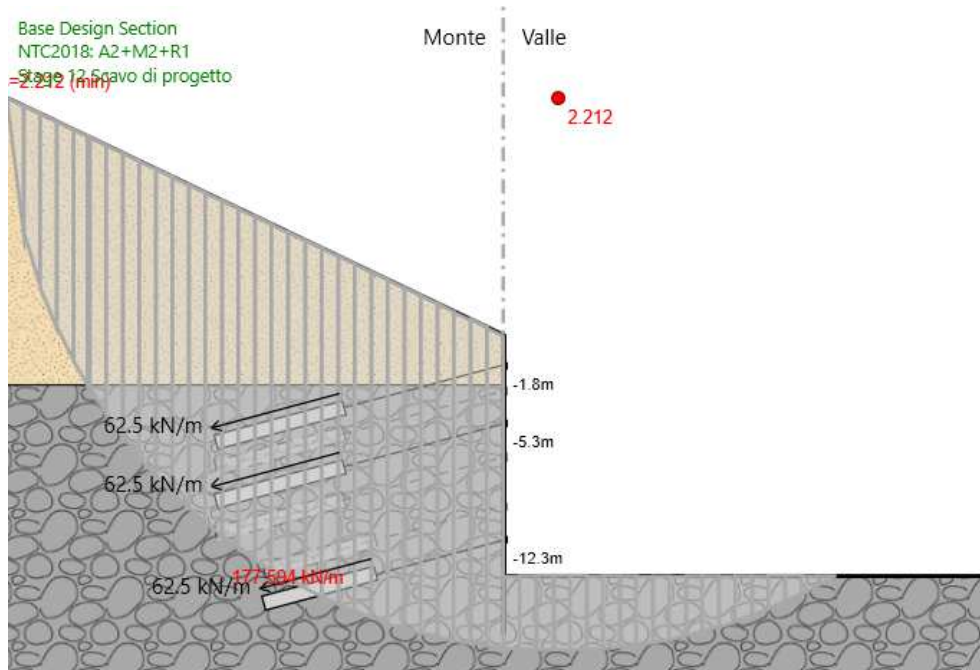


Figura 30 – Sezione 2 – Verifica di stabilità globale statica – $FS = 2.212 > 1.1$

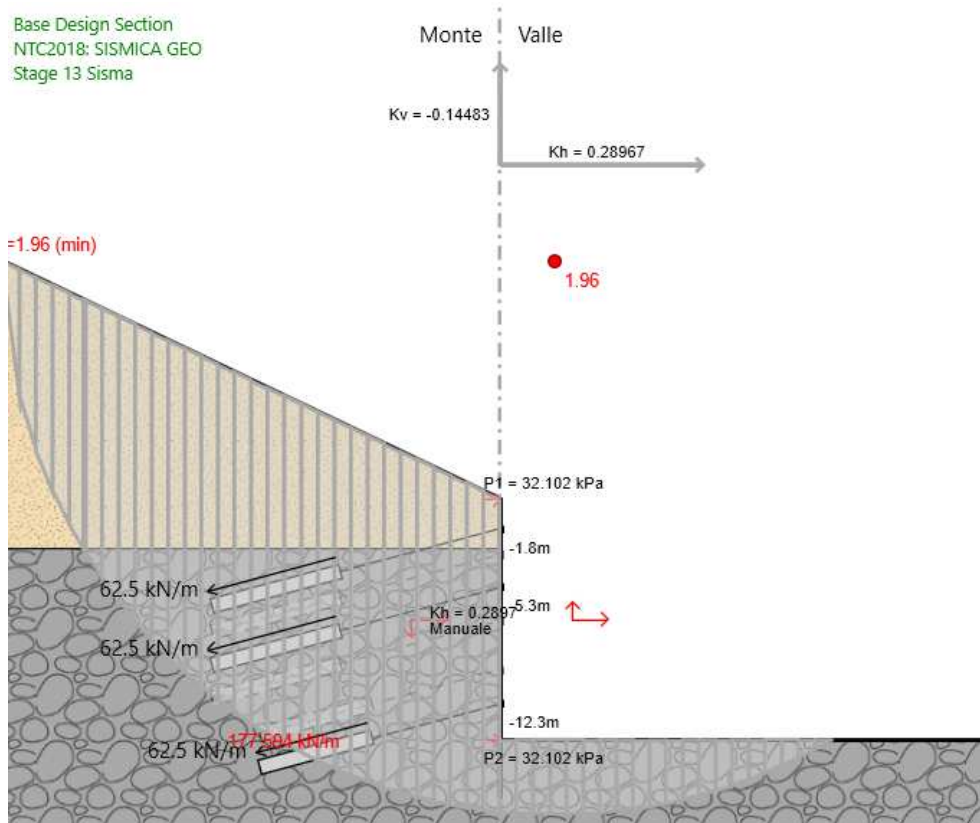


Figura 31 – Sezione 2 – Verifica di stabilità globale sismica (upward) – $FS = 1.960 > 1.2$

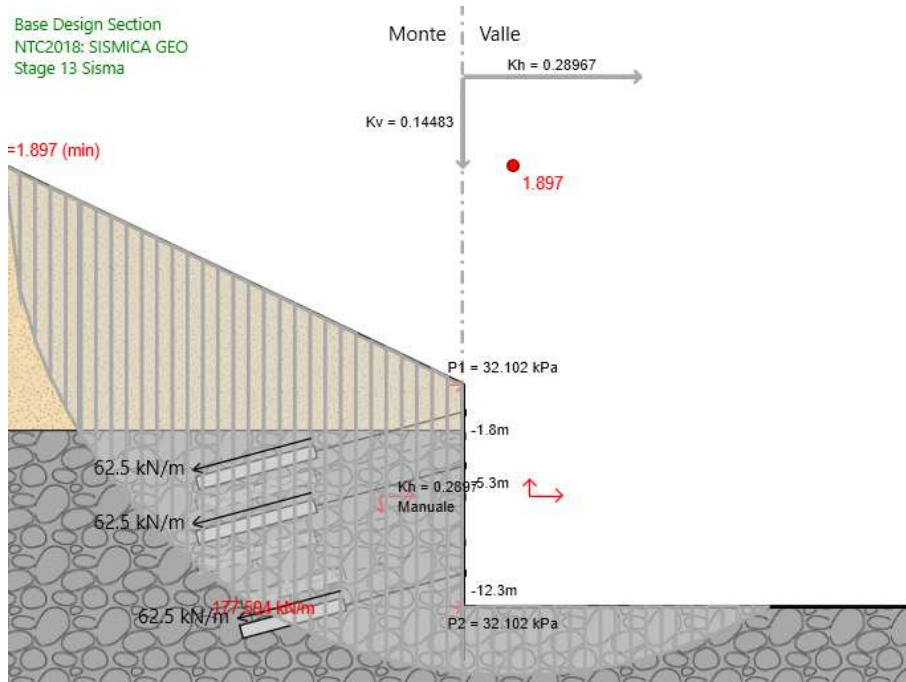


Figura 32 – Sezione 2 – Verifica di stabilità globale sismica (downward) – FS = 1.897 > 1.2

9.4 Sezione di verifica 3

9.4.1 Dati di calcolo

Altezza di scavo esistente: 591.00 m – 581.00 = 10.0 m

Altezza di scavo di progetto: 591.00 m – 580.00 = 11.00 m

Altezza di scavo di calcolo: 11.00 m + 0.20 m = 11.20 m

Lunghezza paratia: 14.5 m

Lunghezza di infissione: 3.3 m

Micropali: diametro perforazione 200 mm - armatura $\varnothing 139.7 \times 8$ mm Fe430 - interasse 40 cm

Tiranti

Dati	Ordine 1 (Nuovo)	Ordine 2 (Esistente)	Ordine 3 (Esistente)	Ordine 4 (Nuovo)
Profondità	-2.00 m	- 4.00 m	- 7.00 m	- 9.00 m
Inclinazione	15°	15°	15°	15°
n. trefoli	4	4	4	4
Pretiro	150 kN	150 kN	150 kN	150 kN
Tiro in esercizio	165 kN	165 kN	150 kN	150 kN
Interasse	2.4 m	2.4 m	2.4 m	2.4 m
L libera	10	10	8	8
L ancorata	8	8	7	7
Trave di ripartizione	HEA180	HEA220	HEA220	HEA180

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:

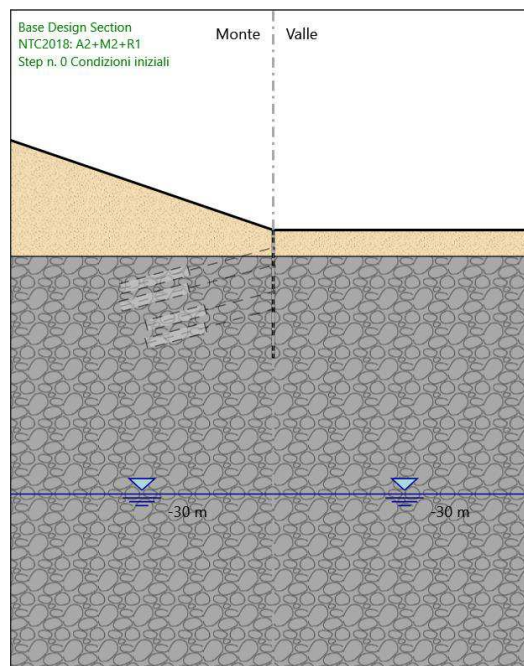


Mandanti:

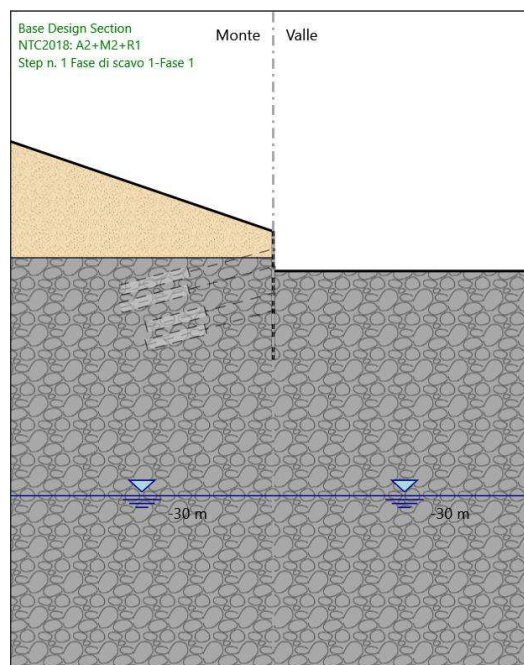


9.4.2 Modello e fasi di calcolo

Step n. 0 Condizioni iniziali



Step n. 1 Fase di scavo 1-Fase 1



Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

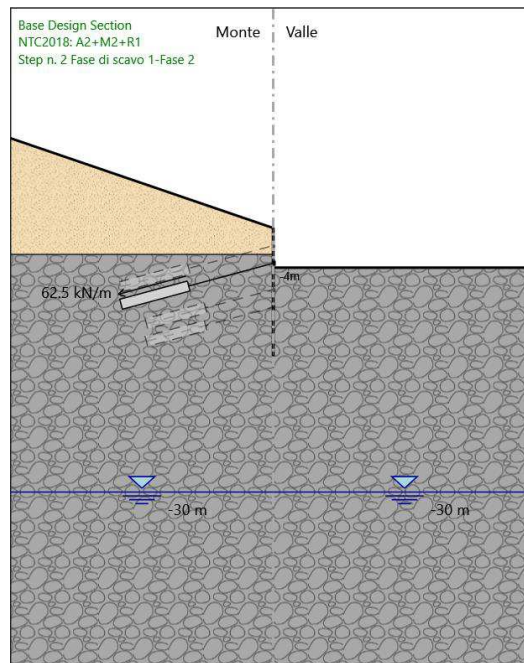
Mandataria:



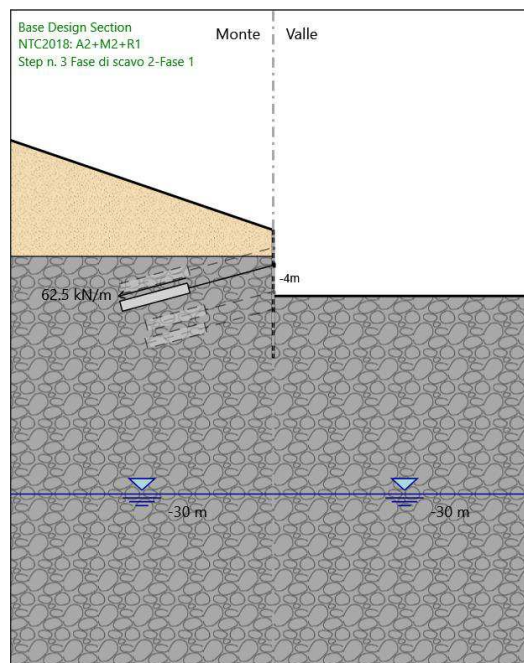
Mandanti:



Step n. 2 Fase di scavo 1-Fase 2



Step n. 3 Fase di scavo 2-Fase 1



Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

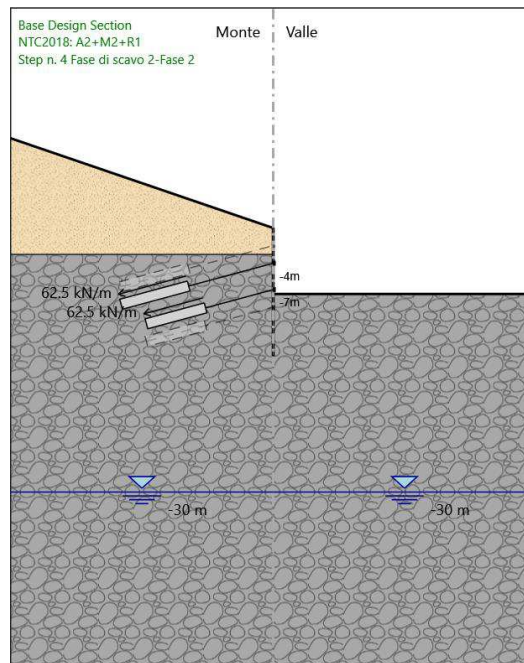
Mandataria:



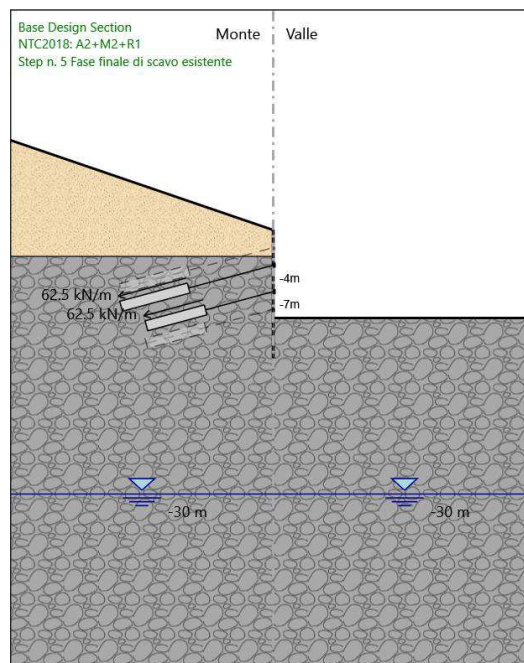
Mandanti:



Step n. 4 Fase di scavo 2-Fase 2



Step n. 5 Fase finale di scavo esistente



Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

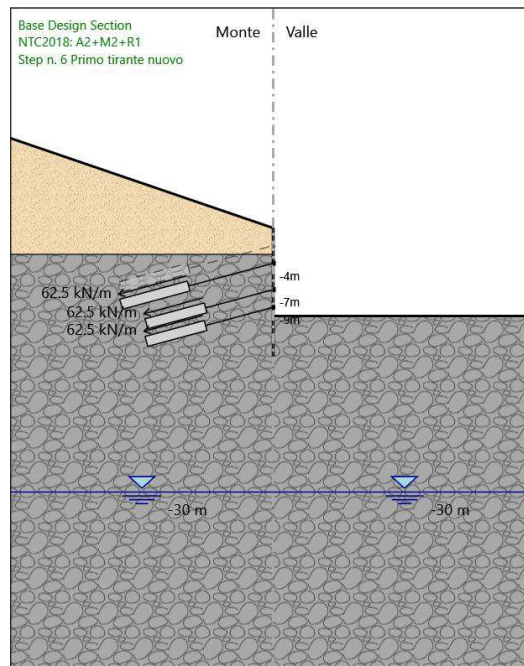
Mandataria:



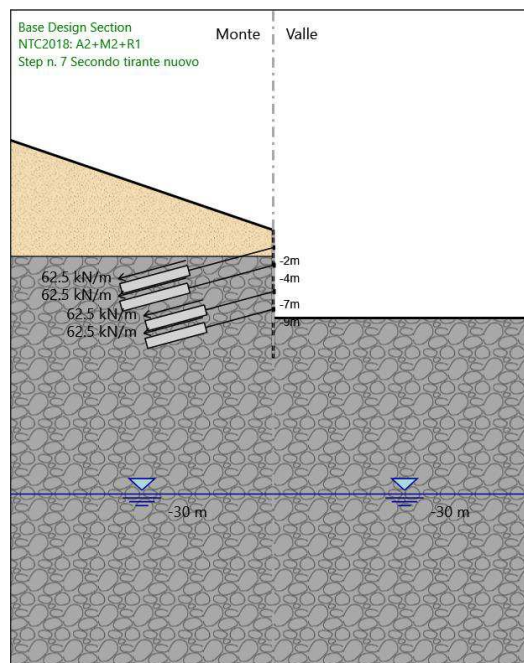
Mandanti:



Step n. 6 Esecuzione primo ordine di tiranti di nuova realizzazione



Step n. 7 Esecuzione secondo ordine di tiranti di nuova realizzazione



Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

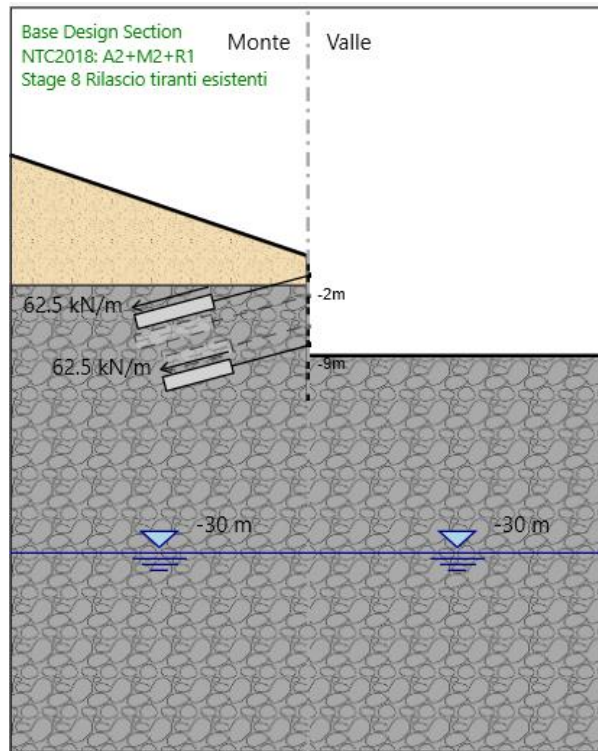
Mandataria:



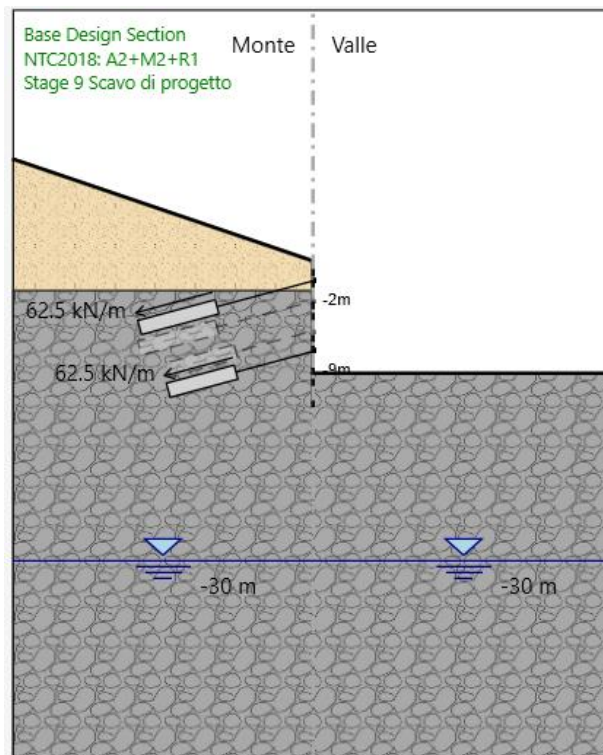
Mandanti:



Stage 8 Rilascio tiranti esistenti



Stage 9 Scavo di progetto



Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

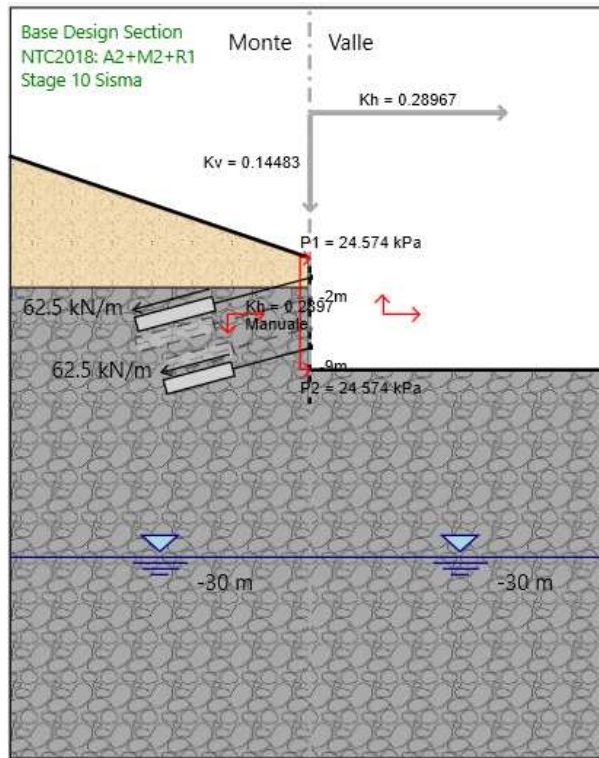
Mandataria:



Mandanti:



Stage 10 Applicazione dell'azione sismica



9.4.3 Sollecitazioni

Di seguito si riporta l'involuppo delle sollecitazioni SLU/SLV.

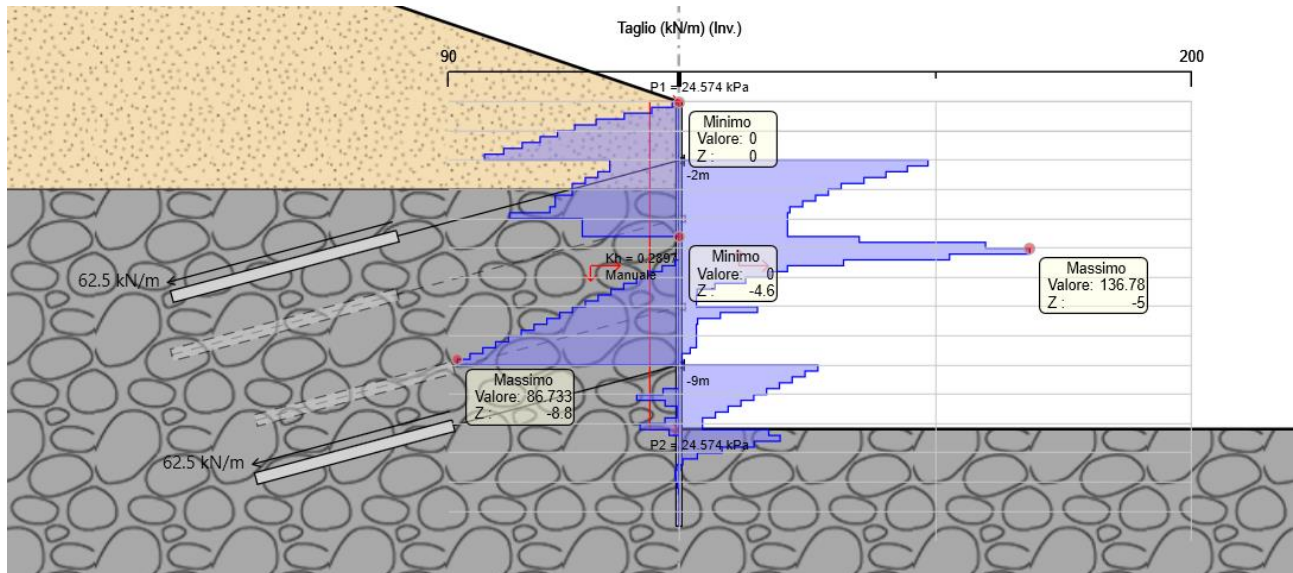


Figura 33 – Sezione 3 - Taglio [kN/m] – Involuppo SLU-SLV

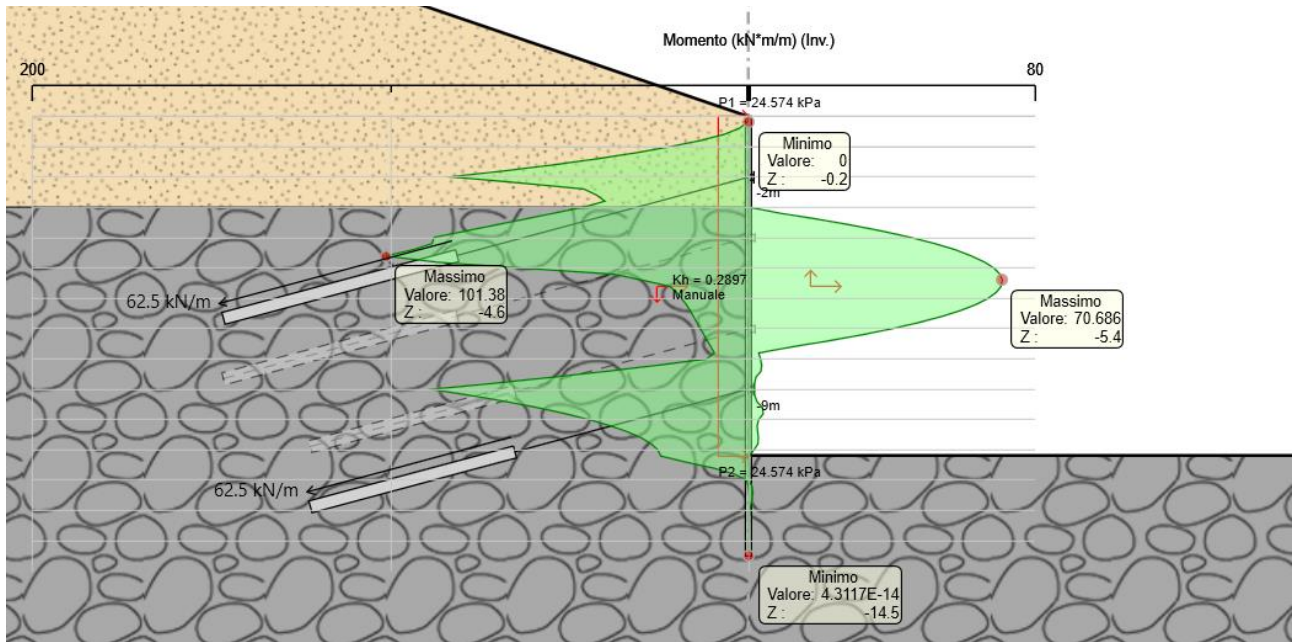


Figura 34 – Sezione 3 - Momento flettente [kNm/m] – Involuppo SLU-SLV

9.4.4 Reazioni nei tiranti

Di seguito si riporta l'involuppo delle reazioni nei tiranti SLU/SLV.

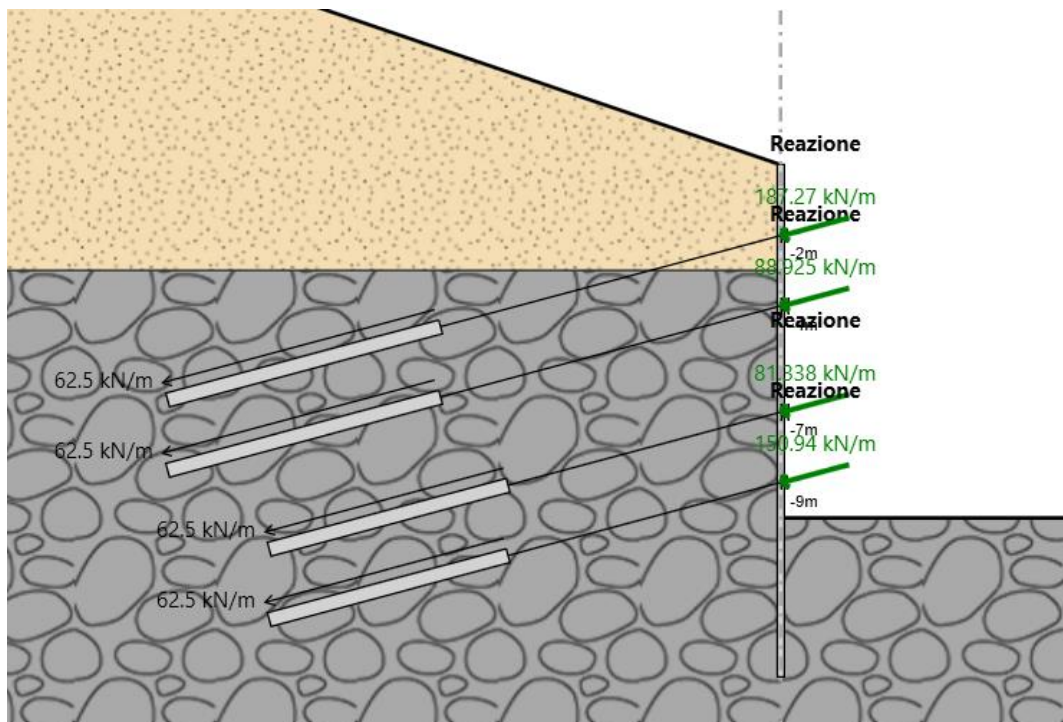


Figura 35 – Sezione 3 – Reazioni nei tiranti [kN/m] – Involuppo SLU-SLV

9.4.5 Deformazioni

Di seguito si riportano gli spostamenti orizzontali ed i cedimenti verticali quali inviluppo allo SLE.

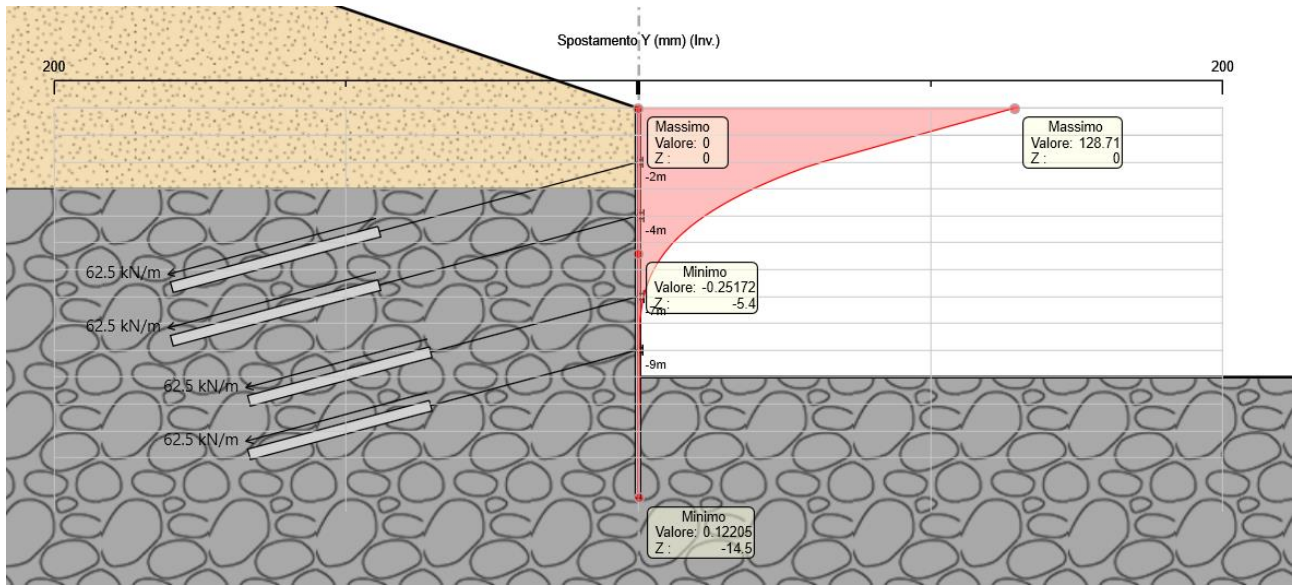


Figura 36 – Sezione 3 – Spostamenti orizzontali [mm] – Inviluppo SLE

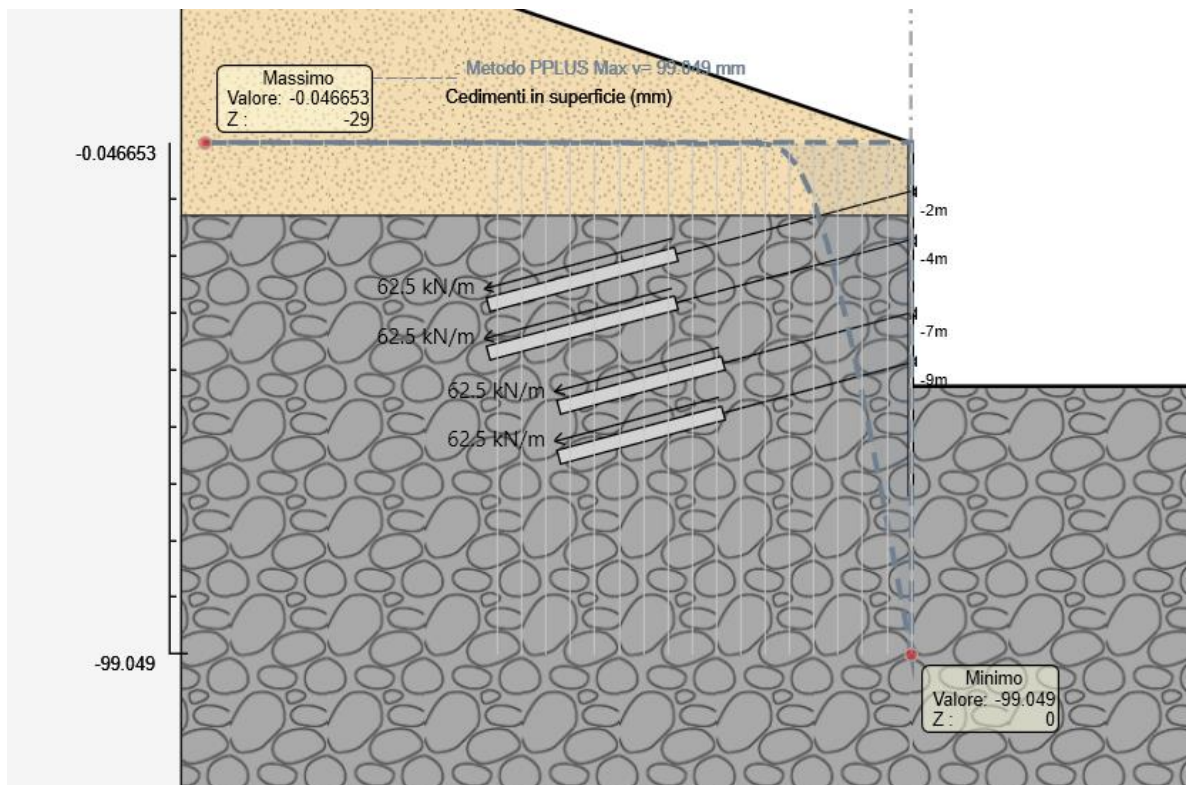


Figura 37 – Sezione 3 – Cedimenti verticali [mm] – Inviluppo SLE

Gli spostamenti orizzontali ed i cedimenti verticali sono da ritenersi compatibili con la funzionalità dell'opera e con le condizioni al contorno.

Come si può notare dal grafico sottostante, le deformazioni dell'opera sono relative sostanzialmente alla condizione relativa allo stato di fatto e congruenti con le evidenze in situ.

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



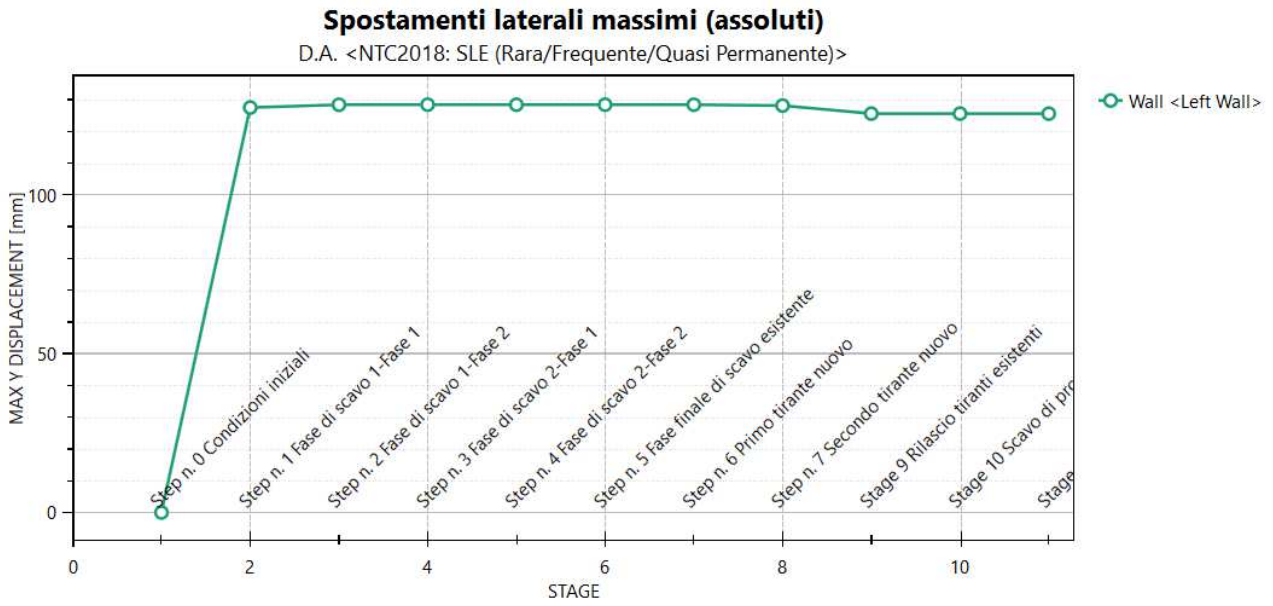


Figura 38 – Sezione 3 – Andamento degli spostamenti orizzontali [mm] – SLE

9.4.6 Verifica dei micropali

Di seguito si riporta il tasso di sfruttamento a flessione e taglio quale involucro SLU/SLV.

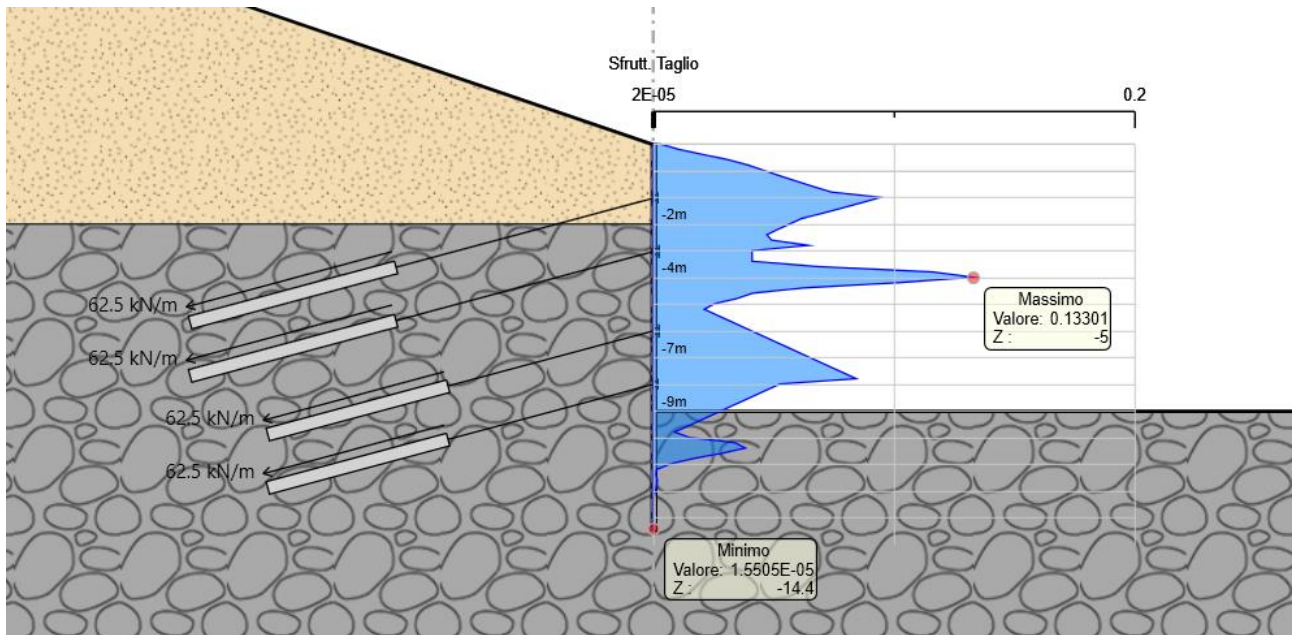


Figura 39 – Sezione 3 – Micropali – Tasso di sfruttamento a taglio – Involuppo SLU-SLV

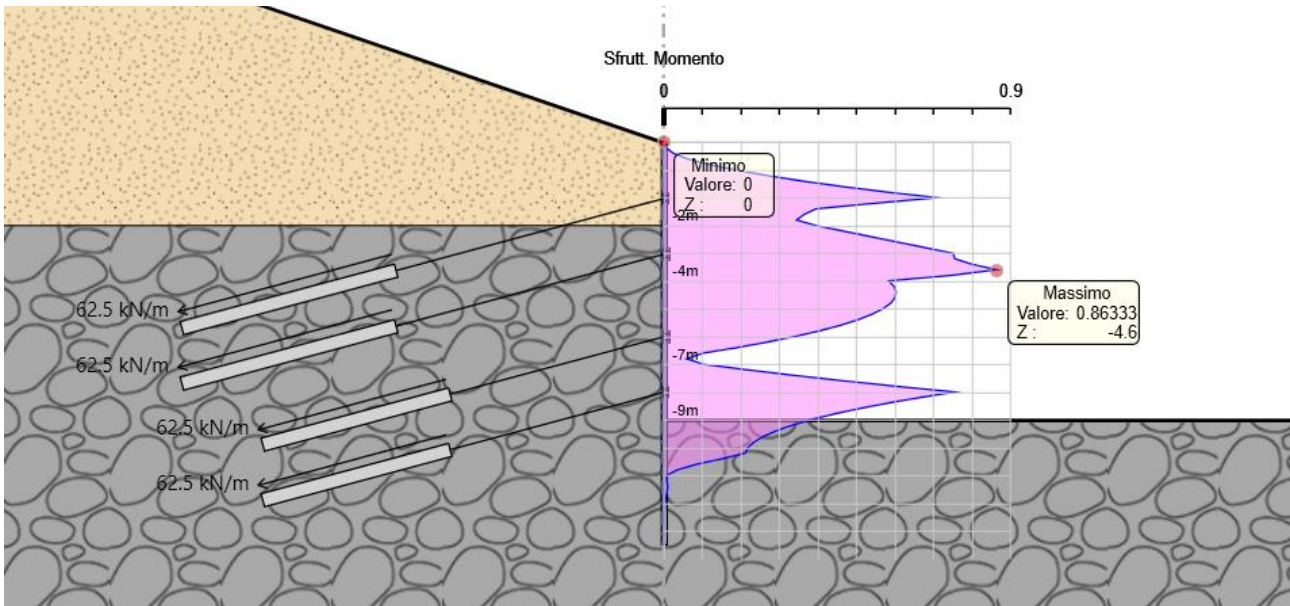


Figura 40 – Sezione 3 – Micropali – Tasso di sfruttamento a flessione – Involuppo SLU-SLV

I tassi di sfruttamento sono inferiori all'unità; le verifiche sono pertanto soddisfatte.

9.4.7 Verifica dei tiranti

Ai fini del calcolo della resistenza a sfilamento sono stati assunti i seguenti parametri, nell'ambito del metodo di Bustamante & Doix (1985):

- Coefficiente di incremento del bulbo $\alpha = 1$
- Resistenza tangenziale media = 500 kPa

Di seguito si riporta la tabella di verifica dei tiranti.

Tirante	Stage	Sollecitazione (kN)	Resistenza GEO (kN)	Resistenza STR (kN)	Sfruttamento GEO	Sfruttamento STR	Resistenza	Design Assumption
Tiranti esistenti + 587.00	Step n. 7 Secondo tirante nuovo	213.42	1163.6	900.04	0.183	0.237	✓	NTC2018: A1+M1+R1 (R3 per tiranti)
Tiranti esistenti + 584.00	Step n. 4 Fase di scavo 2-Fase 2	195	1110.7	900.04	0.176	0.217	✓	NTC2018: A1+M1+R1 (R3 per tiranti)
Tiranti nuovi T3	Stage 11 Sisma	362.26	2199.1	900.04	0.165	0.402	✓	Nominal
Tiranti nuovi T1	Stage 11 Sisma	449.44	2513.3	900.04	0.179	0.499	✓	Nominal

Figura 41 – Sezione 3 – Tiranti - sintesi delle verifiche

I tassi di sfruttamento sono inferiori all'unità; le verifiche sono pertanto soddisfatte.

9.4.8 Verifica delle travi di ripartizione

Di seguito si riporta la tabella di verifica delle travi di ripartizione.

Trave di Ripartizione	Connessione	Sezione	Materiale	Passo orizz. (m)	D.A.	Stage	Carico distribuito(kN/m)	Azione Assiale (kN)	Sfruttamento M-N	Sfruttamento Taglio
Trave di ripartizione + 587.00	Tiranti esistenti + 587.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 2 Fase di scavo 1-Fase 2	81.25	0	0.185	0.197
Trave di ripartizione + 587.00	Tiranti esistenti + 587.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 3 Fase di scavo 2-Fase 1	86.643	0	0.197	0.21
Trave di ripartizione + 587.00	Tiranti esistenti + 587.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 4 Fase di scavo 2-Fase 2	86.893	0	0.197	0.211
Trave di ripartizione + 584.00	Tiranti esistenti + 584.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 4 Fase di scavo 2-Fase 2	81.25	0	0.185	0.197
Trave di ripartizione + 587.00	Tiranti esistenti + 587.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 5 Fase finale di scavo esistente	86.911	0	0.197	0.211
Trave di ripartizione + 584.00	Tiranti esistenti + 584.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 5 Fase finale di scavo esistente	81.316	0	0.185	0.197
Trave di ripartizione + 587.00	Tiranti esistenti + 587.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 6 Primo tirante nuovo	86.913	0	0.197	0.211
Trave di ripartizione + 584.00	Tiranti esistenti + 584.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 6 Primo tirante nuovo	81.338	0	0.185	0.197
Trave di ripartizione T3	Tiranti nuovi T3	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 6 Primo tirante nuovo	81.25	0	0.337	0.283
Trave di ripartizione + 587.00	Tiranti esistenti + 587.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 7 Secondo tirante nuovo	88.925	0	0.202	0.216
Trave di ripartizione + 584.00	Tiranti esistenti + 584.00	HE 220A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 7 Secondo tirante nuovo	81.301	0	0.185	0.197
Trave di ripartizione T3	Tiranti nuovi T3	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 7 Secondo tirante nuovo	81.25	0	0.337	0.283
Trave di ripartizione T1	Tiranti nuovi T1	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Step n. 7 Secondo tirante nuovo	81.25	0	0.337	0.283
Trave di ripartizione T3	Tiranti nuovi T3	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 9 Rilascio tiranti esistenti	81.101	0	0.336	0.282
Trave di ripartizione T1	Tiranti nuovi T1	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 9 Rilascio tiranti esistenti	88.586	0	0.367	0.308
Trave di ripartizione T3	Tiranti nuovi T3	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 10 Scavo di progetto	81.058	0	0.336	0.282
Trave di ripartizione T1	Tiranti nuovi T1	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 10 Scavo di progetto	88.584	0	0.367	0.308
Trave di ripartizione T3	Tiranti nuovi T3	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 11 Sisma	81.056	0	0.336	0.282
Trave di ripartizione T1	Tiranti nuovi T1	HE 180A	S275	2.4	NTC2018: A1+M1+R1 (R3 per tiranti)	Stage 11 Sisma	88.663	0	0.368	0.308

Figura 42 – Sezione 3 – Travi di ripartizione - sintesi delle verifiche

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:

Mandanti:



I tassi di sfruttamento sono inferiori all'unità; le verifiche sono pertanto soddisfatte.

9.4.9 Verifica della spinta passiva

Di seguito si riporta il massimo tasso di sfruttamento della spinta passiva.

Max. Rapporto Spinte (Efficace/Passiva) (Lato SX)	0.1	D.A. NTC2018: A2+M2+R1 (Step n. 0 Condizioni iniziali)
Max. Rapporto Spinte (Efficace/Passiva) (Lato DX)	0.25	D.A. NTC2018: A2+M2+R1 (Stage 11 Sisma)

I tassi di sfruttamento sono inferiori all'unità; le verifiche sono pertanto soddisfatte.

9.4.10 Verifica di stabilità globale

Di seguito si riportano le verifiche di stabilità globale in condizioni statiche e sismiche.

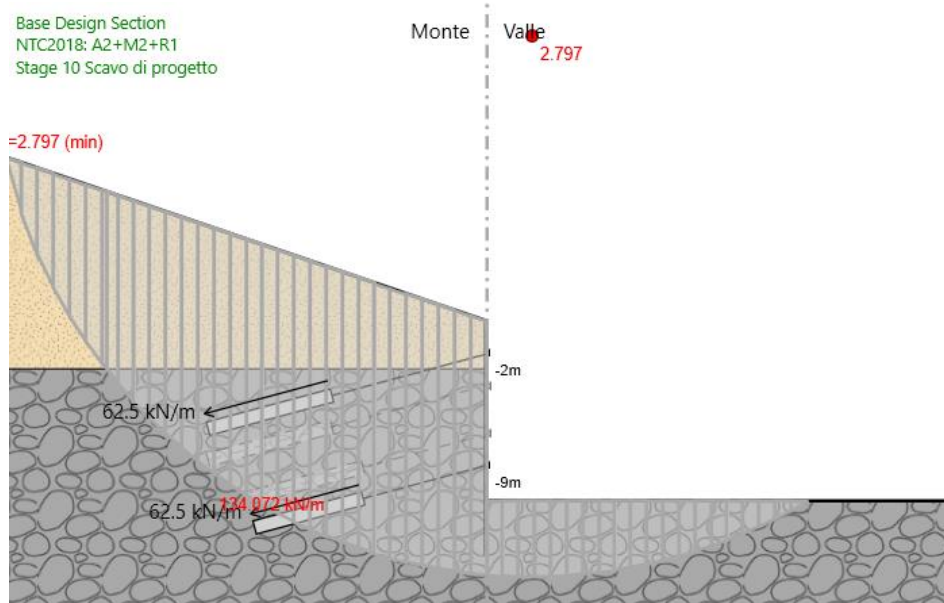


Figura 43 – Sezione 3 – Verifica di stabilità globale statica – FS = 2.797 > 1.1

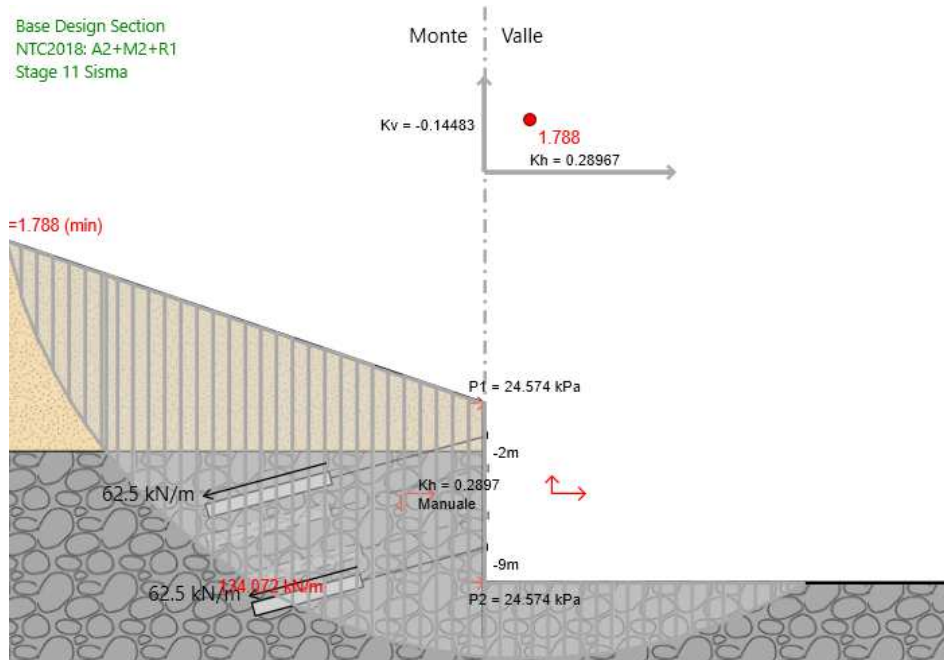


Figura 44 – Sezione 3 – Verifica di stabilità globale sismica (upward) – FS = 1.788 > 1.2

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



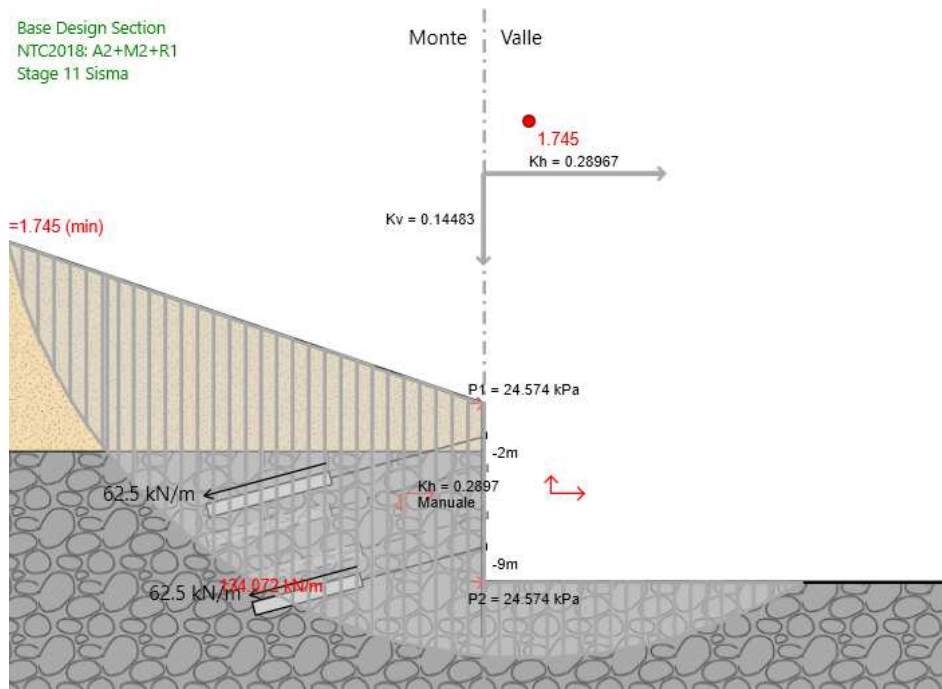


Figura 45 – Sezione 2 – Verifica di stabilità globale sismica (downward) – FS = 1.745 > 1.2

10 ALLEGATO 01: SEZIONE 1 FILE INPUT PARATIE PLUS

10.1 Design Assumption : Nominal - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: Nominal
* Time:mercoledì 14 dicembre 2022 10:28:09
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_917 0 -13 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_917 -13 0 1 0
SOIL 0_R LeftWall_917 -13 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Coltredetrifica_2_905_L_0)
*
LDATA Coltredetrifica_2_905_L_0 30 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 18 10 10
PERMEABILITY 1E-05
RESISTANCE 0 30 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 30000 48000
ENDDL
*
* Soil Profile (Marnaarenacea_8_906_L_0)
*
LDATA Marnaarenacea_8_906_L_0 -3 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 21 13 10
PERMEABILITY 0.0001
RESISTANCE 100 35 0 0 0
TZDATA LINEAR 20000 0 30 0.5 0
KSCALE 0 0
YOUNG 1E+06 1.6E+06
ENDDL

* 5: Defining structural materials
* Rebar material: 54 Name=Strands 270 ksi E=200100000 kPa
MATERIAL Strands270ksi_54 2.001E+08
* Concrete material: 1093 Name=C20/25 E=29962000 kPa
MATERIAL C2025_1093 2.9962E+07
* Steel material: 43 Name=Fe510 E=206000200 kPa
MATERIAL Fe510_43 2.06E+08

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later
BEAM LeftWallElement_1092 LeftWall_917 -13 0 Fe510_43 0.080792 0.018495 4.3946E-05 1.4241 00 00 0

* 6.2: Supports
WIRE Tirantiesistenti+587.00_965 LeftWall_917 -3 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+584.00_1003 LeftWall_917 -6 Strands270ksi_54 1.9841E-05 62.5 15 0 0
WIRE TirantinuoviT3_3643 LeftWall_917 -8 Strands270ksi_54 1.9501E-05 62.5 15 0 0
WIRE TirantinuoviT1_3735 LeftWall_917 -1 Strands270ksi_54 1.611E-05 62.5 15 0 0

* 6.3: Strips

* (slope contribution)
STRIP LeftWall_917 1 1 4.8 0.4 0 0.45 45
STRIP LeftWall_917 1 1 5.2 0.4 0 3.6 45
STRIP LeftWall_917 1 1 5.6 0.4 0 7.2 45
STRIP LeftWall_917 1 1 6 0.4 0 10.8 45
STRIP LeftWall_917 1 1 6.4 0.4 0 14.4 45
STRIP LeftWall_917 1 1 6.8 0.4 0 18 45
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 1 1 7.2 0.4 0 21.6 45
STRIP LeftWall_917 1 1 7.6 0.4 0 25.2 45
STRIP LeftWall_917 1 1 8 0.4 0 28.8 45
STRIP LeftWall_917 1 1 8.4 0.4 0 32.4 45
STRIP LeftWall_917 1 1 8.8 0.4 0 36 45
STRIP LeftWall_917 1 1 9.2 0.4 0 39.6 45
STRIP LeftWall_917 1 1 9.6 0.4 0 43.2 45
STRIP LeftWall_917 1 1 10 0.4 0 46.8 45
STRIP LeftWall_917 1 1 10.4 0.4 0 50.4 45
STRIP LeftWall_917 1 1 10.8 0.4 0 54 45
STRIP LeftWall_917 1 1 11.2 0.4 0 57.6 45
STRIP LeftWall_917 1 1 11.6 0.4 0 61.2 45
STRIP LeftWall_917 1 1 12 0.4 0 64.8 45
STRIP LeftWall_917 1 1 12.4 0.4 0 68.4 45
STRIP LeftWall_917 1 1 12.8 0.4 0 72 45
STRIP LeftWall_917 1 1 13.2 0.4 0 75.6 45
STRIP LeftWall_917 1 1 13.6 0.4 0 79.2 45
STRIP LeftWall_917 1 1 14 0.4 0 82.8 45
STRIP LeftWall_917 1 1 14.4 0.4 0 86.4 45
STRIP LeftWall_917 1 1 14.8 0.4 0 90 45
STRIP LeftWall_917 1 1 15.2 0.4 0 93.6 45
STRIP LeftWall_917 1 1 15.6 0.4 0 97.2 45
STRIP LeftWall_917 1 1 16 0.4 0 100.8 45
STRIP LeftWall_917 1 1 16.4 0.4 0 104.4 45
STRIP LeftWall_917 1 1 16.8 0.4 0 108 45
STRIP LeftWall_917 1 1 17.2 0.4 0 111.6 45
STRIP LeftWall_917 1 1 17.6 0.4 0 115.2 45
STRIP LeftWall_917 1 1 18 0.4 0 118.8 45
STRIP LeftWall_917 1 1 18.4 0.4 0 122.4 45
STRIP LeftWall_917 1 1 18.8 0.4 0 126 45
STRIP LeftWall_917 1 1 19.2 0.4 0 129.6 45
STRIP LeftWall_917 1 1 19.6 0.4 0 133.2 45
STRIP LeftWall_917 1 1 20 0.4 0 136.8 45
STRIP LeftWall_917 1 1 20.4 0.4 0 140.4 45
STRIP LeftWall_917 1 1 20.8 0.4 0 144 45
STRIP LeftWall_917 1 1 21.2 0.4 0 147.6 45
STRIP LeftWall_917 1 1 21.6 0.4 0 151.2 45
STRIP LeftWall_917 1 1 22 0.4 0 154.8 45
STRIP LeftWall_917 1 1 22.4 0.4 0 158.4 45
STRIP LeftWall_917 1 1 22.8 0.4 0 162 45
STRIP LeftWall_917 1 1 23.2 0.4 0 165.6 45
STRIP LeftWall_917 1 1 23.6 0.4 0 169.2 45
STRIP LeftWall_917 1 1 24 0.4 0 172.8 45
STRIP LeftWall_917 1 1 24.4 0.4 0 176.4 45
STRIP LeftWall_917 1 1 24.8 0.4 0 180 45
STRIP LeftWall_917 1 1 25.2 0.4 0 183.6 45
STRIP LeftWall_917 1 1 25.6 0.4 0 187.2 45
STRIP LeftWall_917 1 1 26 0.4 0 190.8 45
STRIP LeftWall_917 1 1 26.4 0.4 0 194.4 45
STRIP LeftWall_917 1 1 26.8 0.4 0 198 45
STRIP LeftWall_917 1 1 27.2 0.4 0 201.6 45
STRIP LeftWall_917 1 1 27.6 0.4 0 205.2 45
STRIP LeftWall_917 1 1 28 0.4 0 208.8 45
STRIP LeftWall_917 1 1 28.4 0.4 0 212.4 45
STRIP LeftWall_917 1 1 28.8 0.4 0 216 45
STRIP LeftWall_917 1 1 29.2 0.4 0 219.6 45
STRIP LeftWall_917 1 1 29.6 0.4 0 223.2 45
STRIP LeftWall_917 1 1 30 0.4 0 226.8 45
STRIP LeftWall_917 1 1 30.4 0.4 0 230.4 45
STRIP LeftWall_917 1 1 30.8 0.4 0 234 45
STRIP LeftWall_917 1 1 31.2 0.4 0 237.6 45
STRIP LeftWall_917 1 1 31.6 0.4 0 241.2 45
STRIP LeftWall_917 1 1 32 0.4 0 244.8 45
STRIP LeftWall_917 1 1 32.4 0.4 0 248.4 45
STRIP LeftWall_917 1 1 32.8 0.4 0 252 45
STRIP LeftWall_917 1 1 33.2 0.4 0 255.6 45
STRIP LeftWall_917 1 1 33.6 0.4 0 259.2 45
STRIP LeftWall_917 1 1 34 0.4 0 262.8 45
STRIP LeftWall_917 1 1 34.4 0.4 0 266.4 45
STRIP LeftWall_917 2 2 4.8 0.4 0 0.45 45
STRIP LeftWall_917 2 2 5.2 0.4 0 3.6 45
STRIP LeftWall_917 2 2 5.6 0.4 0 7.2 45
STRIP LeftWall_917 2 2 6 0.4 0 10.8 45
STRIP LeftWall_917 2 2 6.4 0.4 0 14.4 45
STRIP LeftWall_917 2 2 6.8 0.4 0 18 45
STRIP LeftWall_917 2 2 7.2 0.4 0 21.6 45
STRIP LeftWall_917 2 2 7.6 0.4 0 25.2 45
STRIP LeftWall_917 2 2 8 0.4 0 28.8 45
STRIP LeftWall_917 2 2 8.4 0.4 0 32.4 45
STRIP LeftWall_917 2 2 8.8 0.4 0 36 45
STRIP LeftWall_917 2 2 9.2 0.4 0 39.6 45
STRIP LeftWall_917 2 2 9.6 0.4 0 43.2 45
STRIP LeftWall_917 2 2 10 0.4 0 46.8 45
STRIP LeftWall_917 2 2 10.4 0.4 0 50.4 45
STRIP LeftWall_917 2 2 10.8 0.4 0 54 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 2 2 11.2 0.4 0 57.6 45
STRIP LeftWall_917 2 2 11.6 0.4 0 61.2 45
STRIP LeftWall_917 2 2 12 0.4 0 64.8 45
STRIP LeftWall_917 2 2 12.4 0.4 0 68.4 45
STRIP LeftWall_917 2 2 12.8 0.4 0 72 45
STRIP LeftWall_917 2 2 13.2 0.4 0 75.6 45
STRIP LeftWall_917 2 2 13.6 0.4 0 79.2 45
STRIP LeftWall_917 2 2 14 0.4 0 82.8 45
STRIP LeftWall_917 2 2 14.4 0.4 0 86.4 45
STRIP LeftWall_917 2 2 14.8 0.4 0 90 45
STRIP LeftWall_917 2 2 15.2 0.4 0 93.6 45
STRIP LeftWall_917 2 2 15.6 0.4 0 97.2 45
STRIP LeftWall_917 2 2 16 0.4 0 100.8 45
STRIP LeftWall_917 2 2 16.4 0.4 0 104.4 45
STRIP LeftWall_917 2 2 16.8 0.4 0 108 45
STRIP LeftWall_917 2 2 17.2 0.4 0 111.6 45
STRIP LeftWall_917 2 2 17.6 0.4 0 115.2 45
STRIP LeftWall_917 2 2 18 0.4 0 118.8 45
STRIP LeftWall_917 2 2 18.4 0.4 0 122.4 45
STRIP LeftWall_917 2 2 18.8 0.4 0 126 45
STRIP LeftWall_917 2 2 19.2 0.4 0 129.6 45
STRIP LeftWall_917 2 2 19.6 0.4 0 133.2 45
STRIP LeftWall_917 2 2 20 0.4 0 136.8 45
STRIP LeftWall_917 2 2 20.4 0.4 0 140.4 45
STRIP LeftWall_917 2 2 20.8 0.4 0 144 45
STRIP LeftWall_917 2 2 21.2 0.4 0 147.6 45
STRIP LeftWall_917 2 2 21.6 0.4 0 151.2 45
STRIP LeftWall_917 2 2 22 0.4 0 154.8 45
STRIP LeftWall_917 2 2 22.4 0.4 0 158.4 45
STRIP LeftWall_917 2 2 22.8 0.4 0 162 45
STRIP LeftWall_917 2 2 23.2 0.4 0 165.6 45
STRIP LeftWall_917 2 2 23.6 0.4 0 169.2 45
STRIP LeftWall_917 2 2 24 0.4 0 172.8 45
STRIP LeftWall_917 2 2 24.4 0.4 0 176.4 45
STRIP LeftWall_917 2 2 24.8 0.4 0 180 45
STRIP LeftWall_917 2 2 25.2 0.4 0 183.6 45
STRIP LeftWall_917 2 2 25.6 0.4 0 187.2 45
STRIP LeftWall_917 2 2 26 0.4 0 190.8 45
STRIP LeftWall_917 2 2 26.4 0.4 0 194.4 45
STRIP LeftWall_917 2 2 26.8 0.4 0 198 45
STRIP LeftWall_917 2 2 27.2 0.4 0 201.6 45
STRIP LeftWall_917 2 2 27.6 0.4 0 205.2 45
STRIP LeftWall_917 2 2 28 0.4 0 208.8 45
STRIP LeftWall_917 2 2 28.4 0.4 0 212.4 45
STRIP LeftWall_917 2 2 28.8 0.4 0 216 45
STRIP LeftWall_917 2 2 29.2 0.4 0 219.6 45
STRIP LeftWall_917 2 2 29.6 0.4 0 223.2 45
STRIP LeftWall_917 2 2 30 0.4 0 226.8 45
STRIP LeftWall_917 2 2 30.4 0.4 0 230.4 45
STRIP LeftWall_917 2 2 30.8 0.4 0 234 45
STRIP LeftWall_917 2 2 31.2 0.4 0 237.6 45
STRIP LeftWall_917 2 2 31.6 0.4 0 241.2 45
STRIP LeftWall_917 2 2 32 0.4 0 244.8 45
STRIP LeftWall_917 2 2 32.4 0.4 0 248.4 45
STRIP LeftWall_917 2 2 32.8 0.4 0 252 45
STRIP LeftWall_917 2 2 33.2 0.4 0 255.6 45
STRIP LeftWall_917 2 2 33.6 0.4 0 259.2 45
STRIP LeftWall_917 2 2 34 0.4 0 262.8 45
STRIP LeftWall_917 2 2 34.4 0.4 0 266.4 45
STRIP LeftWall_917 3 3 4.8 0.4 0 0.45 45
STRIP LeftWall_917 3 3 5.2 0.4 0 3.6 45
STRIP LeftWall_917 3 3 5.6 0.4 0 7.2 45
STRIP LeftWall_917 3 3 6 0.4 0 10.8 45
STRIP LeftWall_917 3 3 6.4 0.4 0 14.4 45
STRIP LeftWall_917 3 3 6.8 0.4 0 18 45
STRIP LeftWall_917 3 3 7.2 0.4 0 21.6 45
STRIP LeftWall_917 3 3 7.6 0.4 0 25.2 45
STRIP LeftWall_917 3 3 8 0.4 0 28.8 45
STRIP LeftWall_917 3 3 8.4 0.4 0 32.4 45
STRIP LeftWall_917 3 3 8.8 0.4 0 36 45
STRIP LeftWall_917 3 3 9.2 0.4 0 39.6 45
STRIP LeftWall_917 3 3 9.6 0.4 0 43.2 45
STRIP LeftWall_917 3 3 10 0.4 0 46.8 45
STRIP LeftWall_917 3 3 10.4 0.4 0 50.4 45
STRIP LeftWall_917 3 3 10.8 0.4 0 54 45
STRIP LeftWall_917 3 3 11.2 0.4 0 57.6 45
STRIP LeftWall_917 3 3 11.6 0.4 0 61.2 45
STRIP LeftWall_917 3 3 12 0.4 0 64.8 45
STRIP LeftWall_917 3 3 12.4 0.4 0 68.4 45
STRIP LeftWall_917 3 3 12.8 0.4 0 72 45
STRIP LeftWall_917 3 3 13.2 0.4 0 75.6 45
STRIP LeftWall_917 3 3 13.6 0.4 0 79.2 45
STRIP LeftWall_917 3 3 14 0.4 0 82.8 45
STRIP LeftWall_917 3 3 14.4 0.4 0 86.4 45
STRIP LeftWall_917 3 3 14.8 0.4 0 90 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 3 3 15.2 0.4 0 93.6 45
STRIP LeftWall_917 3 3 15.6 0.4 0 97.2 45
STRIP LeftWall_917 3 3 16 0.4 0 100.8 45
STRIP LeftWall_917 3 3 16.4 0.4 0 104.4 45
STRIP LeftWall_917 3 3 16.8 0.4 0 108 45
STRIP LeftWall_917 3 3 17.2 0.4 0 111.6 45
STRIP LeftWall_917 3 3 17.6 0.4 0 115.2 45
STRIP LeftWall_917 3 3 18 0.4 0 118.8 45
STRIP LeftWall_917 3 3 18.4 0.4 0 122.4 45
STRIP LeftWall_917 3 3 18.8 0.4 0 126 45
STRIP LeftWall_917 3 3 19.2 0.4 0 129.6 45
STRIP LeftWall_917 3 3 19.6 0.4 0 133.2 45
STRIP LeftWall_917 3 3 20 0.4 0 136.8 45
STRIP LeftWall_917 3 3 20.4 0.4 0 140.4 45
STRIP LeftWall_917 3 3 20.8 0.4 0 144 45
STRIP LeftWall_917 3 3 21.2 0.4 0 147.6 45
STRIP LeftWall_917 3 3 21.6 0.4 0 151.2 45
STRIP LeftWall_917 3 3 22 0.4 0 154.8 45
STRIP LeftWall_917 3 3 22.4 0.4 0 158.4 45
STRIP LeftWall_917 3 3 22.8 0.4 0 162 45
STRIP LeftWall_917 3 3 23.2 0.4 0 165.6 45
STRIP LeftWall_917 3 3 23.6 0.4 0 169.2 45
STRIP LeftWall_917 3 3 24 0.4 0 172.8 45
STRIP LeftWall_917 3 3 24.4 0.4 0 176.4 45
STRIP LeftWall_917 3 3 24.8 0.4 0 180 45
STRIP LeftWall_917 3 3 25.2 0.4 0 183.6 45
STRIP LeftWall_917 3 3 25.6 0.4 0 187.2 45
STRIP LeftWall_917 3 3 26 0.4 0 190.8 45
STRIP LeftWall_917 3 3 26.4 0.4 0 194.4 45
STRIP LeftWall_917 3 3 26.8 0.4 0 198 45
STRIP LeftWall_917 3 3 27.2 0.4 0 201.6 45
STRIP LeftWall_917 3 3 27.6 0.4 0 205.2 45
STRIP LeftWall_917 3 3 28 0.4 0 208.8 45
STRIP LeftWall_917 3 3 28.4 0.4 0 212.4 45
STRIP LeftWall_917 3 3 28.8 0.4 0 216 45
STRIP LeftWall_917 3 3 29.2 0.4 0 219.6 45
STRIP LeftWall_917 3 3 29.6 0.4 0 223.2 45
STRIP LeftWall_917 3 3 30 0.4 0 226.8 45
STRIP LeftWall_917 3 3 30.4 0.4 0 230.4 45
STRIP LeftWall_917 3 3 30.8 0.4 0 234 45
STRIP LeftWall_917 3 3 31.2 0.4 0 237.6 45
STRIP LeftWall_917 3 3 31.6 0.4 0 241.2 45
STRIP LeftWall_917 3 3 32 0.4 0 244.8 45
STRIP LeftWall_917 3 3 32.4 0.4 0 248.4 45
STRIP LeftWall_917 3 3 32.8 0.4 0 252 45
STRIP LeftWall_917 3 3 33.2 0.4 0 255.6 45
STRIP LeftWall_917 3 3 33.6 0.4 0 259.2 45
STRIP LeftWall_917 3 3 34 0.4 0 262.8 45
STRIP LeftWall_917 3 3 34.4 0.4 0 266.4 45
STRIP LeftWall_917 4 4 4.8 0.4 0 0.45 45
STRIP LeftWall_917 4 4 5.2 0.4 0 3.6 45
STRIP LeftWall_917 4 4 5.6 0.4 0 7.2 45
STRIP LeftWall_917 4 4 6 0.4 0 10.8 45
STRIP LeftWall_917 4 4 6.4 0.4 0 14.4 45
STRIP LeftWall_917 4 4 6.8 0.4 0 18 45
STRIP LeftWall_917 4 4 7.2 0.4 0 21.6 45
STRIP LeftWall_917 4 4 7.6 0.4 0 25.2 45
STRIP LeftWall_917 4 4 8 0.4 0 28.8 45
STRIP LeftWall_917 4 4 8.4 0.4 0 32.4 45
STRIP LeftWall_917 4 4 8.8 0.4 0 36 45
STRIP LeftWall_917 4 4 9.2 0.4 0 39.6 45
STRIP LeftWall_917 4 4 9.6 0.4 0 43.2 45
STRIP LeftWall_917 4 4 10 0.4 0 46.8 45
STRIP LeftWall_917 4 4 10.4 0.4 0 50.4 45
STRIP LeftWall_917 4 4 10.8 0.4 0 54 45
STRIP LeftWall_917 4 4 11.2 0.4 0 57.6 45
STRIP LeftWall_917 4 4 11.6 0.4 0 61.2 45
STRIP LeftWall_917 4 4 12 0.4 0 64.8 45
STRIP LeftWall_917 4 4 12.4 0.4 0 68.4 45
STRIP LeftWall_917 4 4 12.8 0.4 0 72 45
STRIP LeftWall_917 4 4 13.2 0.4 0 75.6 45
STRIP LeftWall_917 4 4 13.6 0.4 0 79.2 45
STRIP LeftWall_917 4 4 14 0.4 0 82.8 45
STRIP LeftWall_917 4 4 14.4 0.4 0 86.4 45
STRIP LeftWall_917 4 4 14.8 0.4 0 90 45
STRIP LeftWall_917 4 4 15.2 0.4 0 93.6 45
STRIP LeftWall_917 4 4 15.6 0.4 0 97.2 45
STRIP LeftWall_917 4 4 16 0.4 0 100.8 45
STRIP LeftWall_917 4 4 16.4 0.4 0 104.4 45
STRIP LeftWall_917 4 4 16.8 0.4 0 108 45
STRIP LeftWall_917 4 4 17.2 0.4 0 111.6 45
STRIP LeftWall_917 4 4 17.6 0.4 0 115.2 45
STRIP LeftWall_917 4 4 18 0.4 0 118.8 45
STRIP LeftWall_917 4 4 18.4 0.4 0 122.4 45
STRIP LeftWall_917 4 4 18.8 0.4 0 126 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 4 4 19.2 0.4 0 129.6 45
STRIP LeftWall_917 4 4 19.6 0.4 0 133.2 45
STRIP LeftWall_917 4 4 20 0.4 0 136.8 45
STRIP LeftWall_917 4 4 20.4 0.4 0 140.4 45
STRIP LeftWall_917 4 4 20.8 0.4 0 144 45
STRIP LeftWall_917 4 4 21.2 0.4 0 147.6 45
STRIP LeftWall_917 4 4 21.6 0.4 0 151.2 45
STRIP LeftWall_917 4 4 22 0.4 0 154.8 45
STRIP LeftWall_917 4 4 22.4 0.4 0 158.4 45
STRIP LeftWall_917 4 4 22.8 0.4 0 162 45
STRIP LeftWall_917 4 4 23.2 0.4 0 165.6 45
STRIP LeftWall_917 4 4 23.6 0.4 0 169.2 45
STRIP LeftWall_917 4 4 24 0.4 0 172.8 45
STRIP LeftWall_917 4 4 24.4 0.4 0 176.4 45
STRIP LeftWall_917 4 4 24.8 0.4 0 180 45
STRIP LeftWall_917 4 4 25.2 0.4 0 183.6 45
STRIP LeftWall_917 4 4 25.6 0.4 0 187.2 45
STRIP LeftWall_917 4 4 26 0.4 0 190.8 45
STRIP LeftWall_917 4 4 26.4 0.4 0 194.4 45
STRIP LeftWall_917 4 4 26.8 0.4 0 198 45
STRIP LeftWall_917 4 4 27.2 0.4 0 201.6 45
STRIP LeftWall_917 4 4 27.6 0.4 0 205.2 45
STRIP LeftWall_917 4 4 28 0.4 0 208.8 45
STRIP LeftWall_917 4 4 28.4 0.4 0 212.4 45
STRIP LeftWall_917 4 4 28.8 0.4 0 216 45
STRIP LeftWall_917 4 4 29.2 0.4 0 219.6 45
STRIP LeftWall_917 4 4 29.6 0.4 0 223.2 45
STRIP LeftWall_917 4 4 30 0.4 0 226.8 45
STRIP LeftWall_917 4 4 30.4 0.4 0 230.4 45
STRIP LeftWall_917 4 4 30.8 0.4 0 234 45
STRIP LeftWall_917 4 4 31.2 0.4 0 237.6 45
STRIP LeftWall_917 4 4 31.6 0.4 0 241.2 45
STRIP LeftWall_917 4 4 32 0.4 0 244.8 45
STRIP LeftWall_917 4 4 32.4 0.4 0 248.4 45
STRIP LeftWall_917 4 4 32.8 0.4 0 252 45
STRIP LeftWall_917 4 4 33.2 0.4 0 255.6 45
STRIP LeftWall_917 4 4 33.6 0.4 0 259.2 45
STRIP LeftWall_917 4 4 34 0.4 0 262.8 45
STRIP LeftWall_917 4 4 34.4 0.4 0 266.4 45
STRIP LeftWall_917 5 5 4.8 0.4 0 0.45 45
STRIP LeftWall_917 5 5 5.2 0.4 0 3.6 45
STRIP LeftWall_917 5 5 5.6 0.4 0 7.2 45
STRIP LeftWall_917 5 5 6 0.4 0 10.8 45
STRIP LeftWall_917 5 5 6.4 0.4 0 14.4 45
STRIP LeftWall_917 5 5 6.8 0.4 0 18 45
STRIP LeftWall_917 5 5 7.2 0.4 0 21.6 45
STRIP LeftWall_917 5 5 7.6 0.4 0 25.2 45
STRIP LeftWall_917 5 5 8 0.4 0 28.8 45
STRIP LeftWall_917 5 5 8.4 0.4 0 32.4 45
STRIP LeftWall_917 5 5 8.8 0.4 0 36 45
STRIP LeftWall_917 5 5 9.2 0.4 0 39.6 45
STRIP LeftWall_917 5 5 9.6 0.4 0 43.2 45
STRIP LeftWall_917 5 5 10 0.4 0 46.8 45
STRIP LeftWall_917 5 5 10.4 0.4 0 50.4 45
STRIP LeftWall_917 5 5 10.8 0.4 0 54 45
STRIP LeftWall_917 5 5 11.2 0.4 0 57.6 45
STRIP LeftWall_917 5 5 11.6 0.4 0 61.2 45
STRIP LeftWall_917 5 5 12 0.4 0 64.8 45
STRIP LeftWall_917 5 5 12.4 0.4 0 68.4 45
STRIP LeftWall_917 5 5 12.8 0.4 0 72 45
STRIP LeftWall_917 5 5 13.2 0.4 0 75.6 45
STRIP LeftWall_917 5 5 13.6 0.4 0 79.2 45
STRIP LeftWall_917 5 5 14 0.4 0 82.8 45
STRIP LeftWall_917 5 5 14.4 0.4 0 86.4 45
STRIP LeftWall_917 5 5 14.8 0.4 0 90 45
STRIP LeftWall_917 5 5 15.2 0.4 0 93.6 45
STRIP LeftWall_917 5 5 15.6 0.4 0 97.2 45
STRIP LeftWall_917 5 5 16 0.4 0 100.8 45
STRIP LeftWall_917 5 5 16.4 0.4 0 104.4 45
STRIP LeftWall_917 5 5 16.8 0.4 0 108 45
STRIP LeftWall_917 5 5 17.2 0.4 0 111.6 45
STRIP LeftWall_917 5 5 17.6 0.4 0 115.2 45
STRIP LeftWall_917 5 5 18 0.4 0 118.8 45
STRIP LeftWall_917 5 5 18.4 0.4 0 122.4 45
STRIP LeftWall_917 5 5 18.8 0.4 0 126 45
STRIP LeftWall_917 5 5 19.2 0.4 0 129.6 45
STRIP LeftWall_917 5 5 19.6 0.4 0 133.2 45
STRIP LeftWall_917 5 5 20 0.4 0 136.8 45
STRIP LeftWall_917 5 5 20.4 0.4 0 140.4 45
STRIP LeftWall_917 5 5 20.8 0.4 0 144 45
STRIP LeftWall_917 5 5 21.2 0.4 0 147.6 45
STRIP LeftWall_917 5 5 21.6 0.4 0 151.2 45
STRIP LeftWall_917 5 5 22 0.4 0 154.8 45
STRIP LeftWall_917 5 5 22.4 0.4 0 158.4 45
STRIP LeftWall_917 5 5 22.8 0.4 0 162 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 5 5 23.2 0.4 0 165.6 45
STRIP LeftWall_917 5 5 23.6 0.4 0 169.2 45
STRIP LeftWall_917 5 5 24 0.4 0 172.8 45
STRIP LeftWall_917 5 5 24.4 0.4 0 176.4 45
STRIP LeftWall_917 5 5 24.8 0.4 0 180 45
STRIP LeftWall_917 5 5 25.2 0.4 0 183.6 45
STRIP LeftWall_917 5 5 25.6 0.4 0 187.2 45
STRIP LeftWall_917 5 5 26 0.4 0 190.8 45
STRIP LeftWall_917 5 5 26.4 0.4 0 194.4 45
STRIP LeftWall_917 5 5 26.8 0.4 0 198 45
STRIP LeftWall_917 5 5 27.2 0.4 0 201.6 45
STRIP LeftWall_917 5 5 27.6 0.4 0 205.2 45
STRIP LeftWall_917 5 5 28 0.4 0 208.8 45
STRIP LeftWall_917 5 5 28.4 0.4 0 212.4 45
STRIP LeftWall_917 5 5 28.8 0.4 0 216 45
STRIP LeftWall_917 5 5 29.2 0.4 0 219.6 45
STRIP LeftWall_917 5 5 29.6 0.4 0 223.2 45
STRIP LeftWall_917 5 5 30 0.4 0 226.8 45
STRIP LeftWall_917 5 5 30.4 0.4 0 230.4 45
STRIP LeftWall_917 5 5 30.8 0.4 0 234 45
STRIP LeftWall_917 5 5 31.2 0.4 0 237.6 45
STRIP LeftWall_917 5 5 31.6 0.4 0 241.2 45
STRIP LeftWall_917 5 5 32 0.4 0 244.8 45
STRIP LeftWall_917 5 5 32.4 0.4 0 248.4 45
STRIP LeftWall_917 5 5 32.8 0.4 0 252 45
STRIP LeftWall_917 5 5 33.2 0.4 0 255.6 45
STRIP LeftWall_917 5 5 33.6 0.4 0 259.2 45
STRIP LeftWall_917 5 5 34 0.4 0 262.8 45
STRIP LeftWall_917 5 5 34.4 0.4 0 266.4 45
STRIP LeftWall_917 6 6 4.8 0.4 0 0.45 45
STRIP LeftWall_917 6 6 5.2 0.4 0 3.6 45
STRIP LeftWall_917 6 6 5.6 0.4 0 7.2 45
STRIP LeftWall_917 6 6 6 0.4 0 10.8 45
STRIP LeftWall_917 6 6 6.4 0.4 0 14.4 45
STRIP LeftWall_917 6 6 6.8 0.4 0 18 45
STRIP LeftWall_917 6 6 7.2 0.4 0 21.6 45
STRIP LeftWall_917 6 6 7.6 0.4 0 25.2 45
STRIP LeftWall_917 6 6 8 0.4 0 28.8 45
STRIP LeftWall_917 6 6 8.4 0.4 0 32.4 45
STRIP LeftWall_917 6 6 8.8 0.4 0 36 45
STRIP LeftWall_917 6 6 9.2 0.4 0 39.6 45
STRIP LeftWall_917 6 6 9.6 0.4 0 43.2 45
STRIP LeftWall_917 6 6 10 0.4 0 46.8 45
STRIP LeftWall_917 6 6 10.4 0.4 0 50.4 45
STRIP LeftWall_917 6 6 10.8 0.4 0 54 45
STRIP LeftWall_917 6 6 11.2 0.4 0 57.6 45
STRIP LeftWall_917 6 6 11.6 0.4 0 61.2 45
STRIP LeftWall_917 6 6 12 0.4 0 64.8 45
STRIP LeftWall_917 6 6 12.4 0.4 0 68.4 45
STRIP LeftWall_917 6 6 12.8 0.4 0 72 45
STRIP LeftWall_917 6 6 13.2 0.4 0 75.6 45
STRIP LeftWall_917 6 6 13.6 0.4 0 79.2 45
STRIP LeftWall_917 6 6 14 0.4 0 82.8 45
STRIP LeftWall_917 6 6 14.4 0.4 0 86.4 45
STRIP LeftWall_917 6 6 14.8 0.4 0 90 45
STRIP LeftWall_917 6 6 15.2 0.4 0 93.6 45
STRIP LeftWall_917 6 6 15.6 0.4 0 97.2 45
STRIP LeftWall_917 6 6 16 0.4 0 100.8 45
STRIP LeftWall_917 6 6 16.4 0.4 0 104.4 45
STRIP LeftWall_917 6 6 16.8 0.4 0 108 45
STRIP LeftWall_917 6 6 17.2 0.4 0 111.6 45
STRIP LeftWall_917 6 6 17.6 0.4 0 115.2 45
STRIP LeftWall_917 6 6 18 0.4 0 118.8 45
STRIP LeftWall_917 6 6 18.4 0.4 0 122.4 45
STRIP LeftWall_917 6 6 18.8 0.4 0 126 45
STRIP LeftWall_917 6 6 19.2 0.4 0 129.6 45
STRIP LeftWall_917 6 6 19.6 0.4 0 133.2 45
STRIP LeftWall_917 6 6 20 0.4 0 136.8 45
STRIP LeftWall_917 6 6 20.4 0.4 0 140.4 45
STRIP LeftWall_917 6 6 20.8 0.4 0 144 45
STRIP LeftWall_917 6 6 21.2 0.4 0 147.6 45
STRIP LeftWall_917 6 6 21.6 0.4 0 151.2 45
STRIP LeftWall_917 6 6 22 0.4 0 154.8 45
STRIP LeftWall_917 6 6 22.4 0.4 0 158.4 45
STRIP LeftWall_917 6 6 22.8 0.4 0 162 45
STRIP LeftWall_917 6 6 23.2 0.4 0 165.6 45
STRIP LeftWall_917 6 6 23.6 0.4 0 169.2 45
STRIP LeftWall_917 6 6 24 0.4 0 172.8 45
STRIP LeftWall_917 6 6 24.4 0.4 0 176.4 45
STRIP LeftWall_917 6 6 24.8 0.4 0 180 45
STRIP LeftWall_917 6 6 25.2 0.4 0 183.6 45
STRIP LeftWall_917 6 6 25.6 0.4 0 187.2 45
STRIP LeftWall_917 6 6 26 0.4 0 190.8 45
STRIP LeftWall_917 6 6 26.4 0.4 0 194.4 45
STRIP LeftWall_917 6 6 26.8 0.4 0 198 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 6 6 27.2 0.4 0 201.6 45
STRIP LeftWall_917 6 6 27.6 0.4 0 205.2 45
STRIP LeftWall_917 6 6 28 0.4 0 208.8 45
STRIP LeftWall_917 6 6 28.4 0.4 0 212.4 45
STRIP LeftWall_917 6 6 28.8 0.4 0 216 45
STRIP LeftWall_917 6 6 29.2 0.4 0 219.6 45
STRIP LeftWall_917 6 6 29.6 0.4 0 223.2 45
STRIP LeftWall_917 6 6 30 0.4 0 226.8 45
STRIP LeftWall_917 6 6 30.4 0.4 0 230.4 45
STRIP LeftWall_917 6 6 30.8 0.4 0 234 45
STRIP LeftWall_917 6 6 31.2 0.4 0 237.6 45
STRIP LeftWall_917 6 6 31.6 0.4 0 241.2 45
STRIP LeftWall_917 6 6 32 0.4 0 244.8 45
STRIP LeftWall_917 6 6 32.4 0.4 0 248.4 45
STRIP LeftWall_917 6 6 32.8 0.4 0 252 45
STRIP LeftWall_917 6 6 33.2 0.4 0 255.6 45
STRIP LeftWall_917 6 6 33.6 0.4 0 259.2 45
STRIP LeftWall_917 6 6 34 0.4 0 262.8 45
STRIP LeftWall_917 6 6 34.4 0.4 0 266.4 45
STRIP LeftWall_917 7 7 4.8 0.4 0 0.45 45
STRIP LeftWall_917 7 7 5.2 0.4 0 3.6 45
STRIP LeftWall_917 7 7 5.6 0.4 0 7.2 45
STRIP LeftWall_917 7 7 6 0.4 0 10.8 45
STRIP LeftWall_917 7 7 6.4 0.4 0 14.4 45
STRIP LeftWall_917 7 7 6.8 0.4 0 18 45
STRIP LeftWall_917 7 7 7.2 0.4 0 21.6 45
STRIP LeftWall_917 7 7 7.6 0.4 0 25.2 45
STRIP LeftWall_917 7 7 8 0.4 0 28.8 45
STRIP LeftWall_917 7 7 8.4 0.4 0 32.4 45
STRIP LeftWall_917 7 7 8.8 0.4 0 36 45
STRIP LeftWall_917 7 7 9.2 0.4 0 39.6 45
STRIP LeftWall_917 7 7 9.6 0.4 0 43.2 45
STRIP LeftWall_917 7 7 10 0.4 0 46.8 45
STRIP LeftWall_917 7 7 10.4 0.4 0 50.4 45
STRIP LeftWall_917 7 7 10.8 0.4 0 54 45
STRIP LeftWall_917 7 7 11.2 0.4 0 57.6 45
STRIP LeftWall_917 7 7 11.6 0.4 0 61.2 45
STRIP LeftWall_917 7 7 12 0.4 0 64.8 45
STRIP LeftWall_917 7 7 12.4 0.4 0 68.4 45
STRIP LeftWall_917 7 7 12.8 0.4 0 72 45
STRIP LeftWall_917 7 7 13.2 0.4 0 75.6 45
STRIP LeftWall_917 7 7 13.6 0.4 0 79.2 45
STRIP LeftWall_917 7 7 14 0.4 0 82.8 45
STRIP LeftWall_917 7 7 14.4 0.4 0 86.4 45
STRIP LeftWall_917 7 7 14.8 0.4 0 90 45
STRIP LeftWall_917 7 7 15.2 0.4 0 93.6 45
STRIP LeftWall_917 7 7 15.6 0.4 0 97.2 45
STRIP LeftWall_917 7 7 16 0.4 0 100.8 45
STRIP LeftWall_917 7 7 16.4 0.4 0 104.4 45
STRIP LeftWall_917 7 7 16.8 0.4 0 108 45
STRIP LeftWall_917 7 7 17.2 0.4 0 111.6 45
STRIP LeftWall_917 7 7 17.6 0.4 0 115.2 45
STRIP LeftWall_917 7 7 18 0.4 0 118.8 45
STRIP LeftWall_917 7 7 18.4 0.4 0 122.4 45
STRIP LeftWall_917 7 7 18.8 0.4 0 126 45
STRIP LeftWall_917 7 7 19.2 0.4 0 129.6 45
STRIP LeftWall_917 7 7 19.6 0.4 0 133.2 45
STRIP LeftWall_917 7 7 20 0.4 0 136.8 45
STRIP LeftWall_917 7 7 20.4 0.4 0 140.4 45
STRIP LeftWall_917 7 7 20.8 0.4 0 144 45
STRIP LeftWall_917 7 7 21.2 0.4 0 147.6 45
STRIP LeftWall_917 7 7 21.6 0.4 0 151.2 45
STRIP LeftWall_917 7 7 22 0.4 0 154.8 45
STRIP LeftWall_917 7 7 22.4 0.4 0 158.4 45
STRIP LeftWall_917 7 7 22.8 0.4 0 162 45
STRIP LeftWall_917 7 7 23.2 0.4 0 165.6 45
STRIP LeftWall_917 7 7 23.6 0.4 0 169.2 45
STRIP LeftWall_917 7 7 24 0.4 0 172.8 45
STRIP LeftWall_917 7 7 24.4 0.4 0 176.4 45
STRIP LeftWall_917 7 7 24.8 0.4 0 180 45
STRIP LeftWall_917 7 7 25.2 0.4 0 183.6 45
STRIP LeftWall_917 7 7 25.6 0.4 0 187.2 45
STRIP LeftWall_917 7 7 26 0.4 0 190.8 45
STRIP LeftWall_917 7 7 26.4 0.4 0 194.4 45
STRIP LeftWall_917 7 7 26.8 0.4 0 198 45
STRIP LeftWall_917 7 7 27.2 0.4 0 201.6 45
STRIP LeftWall_917 7 7 27.6 0.4 0 205.2 45
STRIP LeftWall_917 7 7 28 0.4 0 208.8 45
STRIP LeftWall_917 7 7 28.4 0.4 0 212.4 45
STRIP LeftWall_917 7 7 28.8 0.4 0 216 45
STRIP LeftWall_917 7 7 29.2 0.4 0 219.6 45
STRIP LeftWall_917 7 7 29.6 0.4 0 223.2 45
STRIP LeftWall_917 7 7 30 0.4 0 226.8 45
STRIP LeftWall_917 7 7 30.4 0.4 0 230.4 45
STRIP LeftWall_917 7 7 30.8 0.4 0 234 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 7 7 31.2 0.4 0 237.6 45
STRIP LeftWall_917 7 7 31.6 0.4 0 241.2 45
STRIP LeftWall_917 7 7 32 0.4 0 244.8 45
STRIP LeftWall_917 7 7 32.4 0.4 0 248.4 45
STRIP LeftWall_917 7 7 32.8 0.4 0 252 45
STRIP LeftWall_917 7 7 33.2 0.4 0 255.6 45
STRIP LeftWall_917 7 7 33.6 0.4 0 259.2 45
STRIP LeftWall_917 7 7 34 0.4 0 262.8 45
STRIP LeftWall_917 7 7 34.4 0.4 0 266.4 45
STRIP LeftWall_917 8 8 4.8 0.4 0 0.45 45
STRIP LeftWall_917 8 8 5.2 0.4 0 3.6 45
STRIP LeftWall_917 8 8 5.6 0.4 0 7.2 45
STRIP LeftWall_917 8 8 6 0.4 0 10.8 45
STRIP LeftWall_917 8 8 6.4 0.4 0 14.4 45
STRIP LeftWall_917 8 8 6.8 0.4 0 18 45
STRIP LeftWall_917 8 8 7.2 0.4 0 21.6 45
STRIP LeftWall_917 8 8 7.6 0.4 0 25.2 45
STRIP LeftWall_917 8 8 8 0.4 0 28.8 45
STRIP LeftWall_917 8 8 8.4 0.4 0 32.4 45
STRIP LeftWall_917 8 8 8.8 0.4 0 36 45
STRIP LeftWall_917 8 8 9.2 0.4 0 39.6 45
STRIP LeftWall_917 8 8 9.6 0.4 0 43.2 45
STRIP LeftWall_917 8 8 10 0.4 0 46.8 45
STRIP LeftWall_917 8 8 10.4 0.4 0 50.4 45
STRIP LeftWall_917 8 8 10.8 0.4 0 54 45
STRIP LeftWall_917 8 8 11.2 0.4 0 57.6 45
STRIP LeftWall_917 8 8 11.6 0.4 0 61.2 45
STRIP LeftWall_917 8 8 12 0.4 0 64.8 45
STRIP LeftWall_917 8 8 12.4 0.4 0 68.4 45
STRIP LeftWall_917 8 8 12.8 0.4 0 72 45
STRIP LeftWall_917 8 8 13.2 0.4 0 75.6 45
STRIP LeftWall_917 8 8 13.6 0.4 0 79.2 45
STRIP LeftWall_917 8 8 14 0.4 0 82.8 45
STRIP LeftWall_917 8 8 14.4 0.4 0 86.4 45
STRIP LeftWall_917 8 8 14.8 0.4 0 90 45
STRIP LeftWall_917 8 8 15.2 0.4 0 93.6 45
STRIP LeftWall_917 8 8 15.6 0.4 0 97.2 45
STRIP LeftWall_917 8 8 16 0.4 0 100.8 45
STRIP LeftWall_917 8 8 16.4 0.4 0 104.4 45
STRIP LeftWall_917 8 8 16.8 0.4 0 108 45
STRIP LeftWall_917 8 8 17.2 0.4 0 111.6 45
STRIP LeftWall_917 8 8 17.6 0.4 0 115.2 45
STRIP LeftWall_917 8 8 18 0.4 0 118.8 45
STRIP LeftWall_917 8 8 18.4 0.4 0 122.4 45
STRIP LeftWall_917 8 8 18.8 0.4 0 126 45
STRIP LeftWall_917 8 8 19.2 0.4 0 129.6 45
STRIP LeftWall_917 8 8 19.6 0.4 0 133.2 45
STRIP LeftWall_917 8 8 20 0.4 0 136.8 45
STRIP LeftWall_917 8 8 20.4 0.4 0 140.4 45
STRIP LeftWall_917 8 8 20.8 0.4 0 144 45
STRIP LeftWall_917 8 8 21.2 0.4 0 147.6 45
STRIP LeftWall_917 8 8 21.6 0.4 0 151.2 45
STRIP LeftWall_917 8 8 22 0.4 0 154.8 45
STRIP LeftWall_917 8 8 22.4 0.4 0 158.4 45
STRIP LeftWall_917 8 8 22.8 0.4 0 162 45
STRIP LeftWall_917 8 8 23.2 0.4 0 165.6 45
STRIP LeftWall_917 8 8 23.6 0.4 0 169.2 45
STRIP LeftWall_917 8 8 24 0.4 0 172.8 45
STRIP LeftWall_917 8 8 24.4 0.4 0 176.4 45
STRIP LeftWall_917 8 8 24.8 0.4 0 180 45
STRIP LeftWall_917 8 8 25.2 0.4 0 183.6 45
STRIP LeftWall_917 8 8 25.6 0.4 0 187.2 45
STRIP LeftWall_917 8 8 26 0.4 0 190.8 45
STRIP LeftWall_917 8 8 26.4 0.4 0 194.4 45
STRIP LeftWall_917 8 8 26.8 0.4 0 198 45
STRIP LeftWall_917 8 8 27.2 0.4 0 201.6 45
STRIP LeftWall_917 8 8 27.6 0.4 0 205.2 45
STRIP LeftWall_917 8 8 28 0.4 0 208.8 45
STRIP LeftWall_917 8 8 28.4 0.4 0 212.4 45
STRIP LeftWall_917 8 8 28.8 0.4 0 216 45
STRIP LeftWall_917 8 8 29.2 0.4 0 219.6 45
STRIP LeftWall_917 8 8 29.6 0.4 0 223.2 45
STRIP LeftWall_917 8 8 30 0.4 0 226.8 45
STRIP LeftWall_917 8 8 30.4 0.4 0 230.4 45
STRIP LeftWall_917 8 8 30.8 0.4 0 234 45
STRIP LeftWall_917 8 8 31.2 0.4 0 237.6 45
STRIP LeftWall_917 8 8 31.6 0.4 0 241.2 45
STRIP LeftWall_917 8 8 32 0.4 0 244.8 45
STRIP LeftWall_917 8 8 32.4 0.4 0 248.4 45
STRIP LeftWall_917 8 8 32.8 0.4 0 252 45
STRIP LeftWall_917 8 8 33.2 0.4 0 255.6 45
STRIP LeftWall_917 8 8 33.6 0.4 0 259.2 45
STRIP LeftWall_917 8 8 34 0.4 0 262.8 45
STRIP LeftWall_917 8 8 34.4 0.4 0 266.4 45
STRIP LeftWall_917 9 9 4.8 0.4 0 0.45 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 9 9 5.2 0.4 0 3.6 45
STRIP LeftWall_917 9 9 5.6 0.4 0 7.2 45
STRIP LeftWall_917 9 9 6 0.4 0 10.8 45
STRIP LeftWall_917 9 9 6.4 0.4 0 14.4 45
STRIP LeftWall_917 9 9 6.8 0.4 0 18 45
STRIP LeftWall_917 9 9 7.2 0.4 0 21.6 45
STRIP LeftWall_917 9 9 7.6 0.4 0 25.2 45
STRIP LeftWall_917 9 9 8 0.4 0 28.8 45
STRIP LeftWall_917 9 9 8.4 0.4 0 32.4 45
STRIP LeftWall_917 9 9 8.8 0.4 0 36 45
STRIP LeftWall_917 9 9 9.2 0.4 0 39.6 45
STRIP LeftWall_917 9 9 9.6 0.4 0 43.2 45
STRIP LeftWall_917 9 9 10 0.4 0 46.8 45
STRIP LeftWall_917 9 9 10.4 0.4 0 50.4 45
STRIP LeftWall_917 9 9 10.8 0.4 0 54 45
STRIP LeftWall_917 9 9 11.2 0.4 0 57.6 45
STRIP LeftWall_917 9 9 11.6 0.4 0 61.2 45
STRIP LeftWall_917 9 9 12 0.4 0 64.8 45
STRIP LeftWall_917 9 9 12.4 0.4 0 68.4 45
STRIP LeftWall_917 9 9 12.8 0.4 0 72 45
STRIP LeftWall_917 9 9 13.2 0.4 0 75.6 45
STRIP LeftWall_917 9 9 13.6 0.4 0 79.2 45
STRIP LeftWall_917 9 9 14 0.4 0 82.8 45
STRIP LeftWall_917 9 9 14.4 0.4 0 86.4 45
STRIP LeftWall_917 9 9 14.8 0.4 0 90 45
STRIP LeftWall_917 9 9 15.2 0.4 0 93.6 45
STRIP LeftWall_917 9 9 15.6 0.4 0 97.2 45
STRIP LeftWall_917 9 9 16 0.4 0 100.8 45
STRIP LeftWall_917 9 9 16.4 0.4 0 104.4 45
STRIP LeftWall_917 9 9 16.8 0.4 0 108 45
STRIP LeftWall_917 9 9 17.2 0.4 0 111.6 45
STRIP LeftWall_917 9 9 17.6 0.4 0 115.2 45
STRIP LeftWall_917 9 9 18 0.4 0 118.8 45
STRIP LeftWall_917 9 9 18.4 0.4 0 122.4 45
STRIP LeftWall_917 9 9 18.8 0.4 0 126 45
STRIP LeftWall_917 9 9 19.2 0.4 0 129.6 45
STRIP LeftWall_917 9 9 19.6 0.4 0 133.2 45
STRIP LeftWall_917 9 9 20 0.4 0 136.8 45
STRIP LeftWall_917 9 9 20.4 0.4 0 140.4 45
STRIP LeftWall_917 9 9 20.8 0.4 0 144 45
STRIP LeftWall_917 9 9 21.2 0.4 0 147.6 45
STRIP LeftWall_917 9 9 21.6 0.4 0 151.2 45
STRIP LeftWall_917 9 9 22 0.4 0 154.8 45
STRIP LeftWall_917 9 9 22.4 0.4 0 158.4 45
STRIP LeftWall_917 9 9 22.8 0.4 0 162 45
STRIP LeftWall_917 9 9 23.2 0.4 0 165.6 45
STRIP LeftWall_917 9 9 23.6 0.4 0 169.2 45
STRIP LeftWall_917 9 9 24 0.4 0 172.8 45
STRIP LeftWall_917 9 9 24.4 0.4 0 176.4 45
STRIP LeftWall_917 9 9 24.8 0.4 0 180 45
STRIP LeftWall_917 9 9 25.2 0.4 0 183.6 45
STRIP LeftWall_917 9 9 25.6 0.4 0 187.2 45
STRIP LeftWall_917 9 9 26 0.4 0 190.8 45
STRIP LeftWall_917 9 9 26.4 0.4 0 194.4 45
STRIP LeftWall_917 9 9 26.8 0.4 0 198 45
STRIP LeftWall_917 9 9 27.2 0.4 0 201.6 45
STRIP LeftWall_917 9 9 27.6 0.4 0 205.2 45
STRIP LeftWall_917 9 9 28 0.4 0 208.8 45
STRIP LeftWall_917 9 9 28.4 0.4 0 212.4 45
STRIP LeftWall_917 9 9 28.8 0.4 0 216 45
STRIP LeftWall_917 9 9 29.2 0.4 0 219.6 45
STRIP LeftWall_917 9 9 29.6 0.4 0 223.2 45
STRIP LeftWall_917 9 9 30 0.4 0 226.8 45
STRIP LeftWall_917 9 9 30.4 0.4 0 230.4 45
STRIP LeftWall_917 9 9 30.8 0.4 0 234 45
STRIP LeftWall_917 9 9 31.2 0.4 0 237.6 45
STRIP LeftWall_917 9 9 31.6 0.4 0 241.2 45
STRIP LeftWall_917 9 9 32 0.4 0 244.8 45
STRIP LeftWall_917 9 9 32.4 0.4 0 248.4 45
STRIP LeftWall_917 9 9 32.8 0.4 0 252 45
STRIP LeftWall_917 9 9 33.2 0.4 0 255.6 45
STRIP LeftWall_917 9 9 33.6 0.4 0 259.2 45
STRIP LeftWall_917 9 9 34 0.4 0 262.8 45
STRIP LeftWall_917 9 9 34.4 0.4 0 266.4 45
STRIP LeftWall_917 10 10 4.8 0.4 0 0.45 45
STRIP LeftWall_917 10 10 5.2 0.4 0 3.6 45
STRIP LeftWall_917 10 10 5.6 0.4 0 7.2 45
STRIP LeftWall_917 10 10 6 0.4 0 10.8 45
STRIP LeftWall_917 10 10 6.4 0.4 0 14.4 45
STRIP LeftWall_917 10 10 6.8 0.4 0 18 45
STRIP LeftWall_917 10 10 7.2 0.4 0 21.6 45
STRIP LeftWall_917 10 10 7.6 0.4 0 25.2 45
STRIP LeftWall_917 10 10 8 0.4 0 28.8 45
STRIP LeftWall_917 10 10 8.4 0.4 0 32.4 45
STRIP LeftWall_917 10 10 8.8 0.4 0 36 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 10 10 9.2 0.4 0 39.6 45
STRIP LeftWall_917 10 10 9.6 0.4 0 43.2 45
STRIP LeftWall_917 10 10 10 0.4 0 46.8 45
STRIP LeftWall_917 10 10 10.4 0.4 0 50.4 45
STRIP LeftWall_917 10 10 10.8 0.4 0 54 45
STRIP LeftWall_917 10 10 11.2 0.4 0 57.6 45
STRIP LeftWall_917 10 10 11.6 0.4 0 61.2 45
STRIP LeftWall_917 10 10 12 0.4 0 64.8 45
STRIP LeftWall_917 10 10 12.4 0.4 0 68.4 45
STRIP LeftWall_917 10 10 12.8 0.4 0 72 45
STRIP LeftWall_917 10 10 13.2 0.4 0 75.6 45
STRIP LeftWall_917 10 10 13.6 0.4 0 79.2 45
STRIP LeftWall_917 10 10 14 0.4 0 82.8 45
STRIP LeftWall_917 10 10 14.4 0.4 0 86.4 45
STRIP LeftWall_917 10 10 14.8 0.4 0 90 45
STRIP LeftWall_917 10 10 15.2 0.4 0 93.6 45
STRIP LeftWall_917 10 10 15.6 0.4 0 97.2 45
STRIP LeftWall_917 10 10 16 0.4 0 100.8 45
STRIP LeftWall_917 10 10 16.4 0.4 0 104.4 45
STRIP LeftWall_917 10 10 16.8 0.4 0 108 45
STRIP LeftWall_917 10 10 17.2 0.4 0 111.6 45
STRIP LeftWall_917 10 10 17.6 0.4 0 115.2 45
STRIP LeftWall_917 10 10 18 0.4 0 118.8 45
STRIP LeftWall_917 10 10 18.4 0.4 0 122.4 45
STRIP LeftWall_917 10 10 18.8 0.4 0 126 45
STRIP LeftWall_917 10 10 19.2 0.4 0 129.6 45
STRIP LeftWall_917 10 10 19.6 0.4 0 133.2 45
STRIP LeftWall_917 10 10 20 0.4 0 136.8 45
STRIP LeftWall_917 10 10 20.4 0.4 0 140.4 45
STRIP LeftWall_917 10 10 20.8 0.4 0 144 45
STRIP LeftWall_917 10 10 21.2 0.4 0 147.6 45
STRIP LeftWall_917 10 10 21.6 0.4 0 151.2 45
STRIP LeftWall_917 10 10 22 0.4 0 154.8 45
STRIP LeftWall_917 10 10 22.4 0.4 0 158.4 45
STRIP LeftWall_917 10 10 22.8 0.4 0 162 45
STRIP LeftWall_917 10 10 23.2 0.4 0 165.6 45
STRIP LeftWall_917 10 10 23.6 0.4 0 169.2 45
STRIP LeftWall_917 10 10 24 0.4 0 172.8 45
STRIP LeftWall_917 10 10 24.4 0.4 0 176.4 45
STRIP LeftWall_917 10 10 24.8 0.4 0 180 45
STRIP LeftWall_917 10 10 25.2 0.4 0 183.6 45
STRIP LeftWall_917 10 10 25.6 0.4 0 187.2 45
STRIP LeftWall_917 10 10 26 0.4 0 190.8 45
STRIP LeftWall_917 10 10 26.4 0.4 0 194.4 45
STRIP LeftWall_917 10 10 26.8 0.4 0 198 45
STRIP LeftWall_917 10 10 27.2 0.4 0 201.6 45
STRIP LeftWall_917 10 10 27.6 0.4 0 205.2 45
STRIP LeftWall_917 10 10 28 0.4 0 208.8 45
STRIP LeftWall_917 10 10 28.4 0.4 0 212.4 45
STRIP LeftWall_917 10 10 28.8 0.4 0 216 45
STRIP LeftWall_917 10 10 29.2 0.4 0 219.6 45
STRIP LeftWall_917 10 10 29.6 0.4 0 223.2 45
STRIP LeftWall_917 10 10 30 0.4 0 226.8 45
STRIP LeftWall_917 10 10 30.4 0.4 0 230.4 45
STRIP LeftWall_917 10 10 30.8 0.4 0 234 45
STRIP LeftWall_917 10 10 31.2 0.4 0 237.6 45
STRIP LeftWall_917 10 10 31.6 0.4 0 241.2 45
STRIP LeftWall_917 10 10 32 0.4 0 244.8 45
STRIP LeftWall_917 10 10 32.4 0.4 0 248.4 45
STRIP LeftWall_917 10 10 32.8 0.4 0 252 45
STRIP LeftWall_917 10 10 33.2 0.4 0 255.6 45
STRIP LeftWall_917 10 10 33.6 0.4 0 259.2 45
STRIP LeftWall_917 10 10 34 0.4 0 262.8 45
STRIP LeftWall_917 10 10 34.4 0.4 0 266.4 45
STRIP LeftWall_917 11 11 4.8 0.4 0 0.45 45
STRIP LeftWall_917 11 11 5.2 0.4 0 3.6 45
STRIP LeftWall_917 11 11 5.6 0.4 0 7.2 45
STRIP LeftWall_917 11 11 6 0.4 0 10.8 45
STRIP LeftWall_917 11 11 6.4 0.4 0 14.4 45
STRIP LeftWall_917 11 11 6.8 0.4 0 18 45
STRIP LeftWall_917 11 11 7.2 0.4 0 21.6 45
STRIP LeftWall_917 11 11 7.6 0.4 0 25.2 45
STRIP LeftWall_917 11 11 8 0.4 0 28.8 45
STRIP LeftWall_917 11 11 8.4 0.4 0 32.4 45
STRIP LeftWall_917 11 11 8.8 0.4 0 36 45
STRIP LeftWall_917 11 11 9.2 0.4 0 39.6 45
STRIP LeftWall_917 11 11 9.6 0.4 0 43.2 45
STRIP LeftWall_917 11 11 10 0.4 0 46.8 45
STRIP LeftWall_917 11 11 10.4 0.4 0 50.4 45
STRIP LeftWall_917 11 11 10.8 0.4 0 54 45
STRIP LeftWall_917 11 11 11.2 0.4 0 57.6 45
STRIP LeftWall_917 11 11 11.6 0.4 0 61.2 45
STRIP LeftWall_917 11 11 12 0.4 0 64.8 45
STRIP LeftWall_917 11 11 12.4 0.4 0 68.4 45
STRIP LeftWall_917 11 11 12.8 0.4 0 72 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 11 11 13.2 0.4 0 75.6 45
STRIP LeftWall_917 11 11 13.6 0.4 0 79.2 45
STRIP LeftWall_917 11 11 14 0.4 0 82.8 45
STRIP LeftWall_917 11 11 14.4 0.4 0 86.4 45
STRIP LeftWall_917 11 11 14.8 0.4 0 90 45
STRIP LeftWall_917 11 11 15.2 0.4 0 93.6 45
STRIP LeftWall_917 11 11 15.6 0.4 0 97.2 45
STRIP LeftWall_917 11 11 16 0.4 0 100.8 45
STRIP LeftWall_917 11 11 16.4 0.4 0 104.4 45
STRIP LeftWall_917 11 11 16.8 0.4 0 108 45
STRIP LeftWall_917 11 11 17.2 0.4 0 111.6 45
STRIP LeftWall_917 11 11 17.6 0.4 0 115.2 45
STRIP LeftWall_917 11 11 18 0.4 0 118.8 45
STRIP LeftWall_917 11 11 18.4 0.4 0 122.4 45
STRIP LeftWall_917 11 11 18.8 0.4 0 126 45
STRIP LeftWall_917 11 11 19.2 0.4 0 129.6 45
STRIP LeftWall_917 11 11 19.6 0.4 0 133.2 45
STRIP LeftWall_917 11 11 20 0.4 0 136.8 45
STRIP LeftWall_917 11 11 20.4 0.4 0 140.4 45
STRIP LeftWall_917 11 11 20.8 0.4 0 144 45
STRIP LeftWall_917 11 11 21.2 0.4 0 147.6 45
STRIP LeftWall_917 11 11 21.6 0.4 0 151.2 45
STRIP LeftWall_917 11 11 22 0.4 0 154.8 45
STRIP LeftWall_917 11 11 22.4 0.4 0 158.4 45
STRIP LeftWall_917 11 11 22.8 0.4 0 162 45
STRIP LeftWall_917 11 11 23.2 0.4 0 165.6 45
STRIP LeftWall_917 11 11 23.6 0.4 0 169.2 45
STRIP LeftWall_917 11 11 24 0.4 0 172.8 45
STRIP LeftWall_917 11 11 24.4 0.4 0 176.4 45
STRIP LeftWall_917 11 11 24.8 0.4 0 180 45
STRIP LeftWall_917 11 11 25.2 0.4 0 183.6 45
STRIP LeftWall_917 11 11 25.6 0.4 0 187.2 45
STRIP LeftWall_917 11 11 26 0.4 0 190.8 45
STRIP LeftWall_917 11 11 26.4 0.4 0 194.4 45
STRIP LeftWall_917 11 11 26.8 0.4 0 198 45
STRIP LeftWall_917 11 11 27.2 0.4 0 201.6 45
STRIP LeftWall_917 11 11 27.6 0.4 0 205.2 45
STRIP LeftWall_917 11 11 28 0.4 0 208.8 45
STRIP LeftWall_917 11 11 28.4 0.4 0 212.4 45
STRIP LeftWall_917 11 11 28.8 0.4 0 216 45
STRIP LeftWall_917 11 11 29.2 0.4 0 219.6 45
STRIP LeftWall_917 11 11 29.6 0.4 0 223.2 45
STRIP LeftWall_917 11 11 30 0.4 0 226.8 45
STRIP LeftWall_917 11 11 30.4 0.4 0 230.4 45
STRIP LeftWall_917 11 11 30.8 0.4 0 234 45
STRIP LeftWall_917 11 11 31.2 0.4 0 237.6 45
STRIP LeftWall_917 11 11 31.6 0.4 0 241.2 45
STRIP LeftWall_917 11 11 32 0.4 0 244.8 45
STRIP LeftWall_917 11 11 32.4 0.4 0 248.4 45
STRIP LeftWall_917 11 11 32.8 0.4 0 252 45
STRIP LeftWall_917 11 11 33.2 0.4 0 255.6 45
STRIP LeftWall_917 11 11 33.6 0.4 0 259.2 45
STRIP LeftWall_917 11 11 34 0.4 0 262.8 45
STRIP LeftWall_917 11 11 34.4 0.4 0 266.4 45

* 7: Defining Steps

STEP Stepn.0Condizioniniziali_924
CHANGE Coltredestritica_2_905_L_0 U-FRICT=30 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-FRICT=30 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KA=0.333 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KP=4.288 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KA=0.333 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KP=4.288 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KP=5.879 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KP=5.879 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-COHE=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-ADHES=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-COHE=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-ADHES=100 LeftWall_917
SETWALL LeftWall_917
GEOM 0 0
SURCHARGE 0 0 0 0
WATER -30 0 -13 0 0
ADD LeftWallElement_1092
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

```
STEP Stepn.1Fasediscavo1-Fase1_935
SETWALL LeftWall_917
GEOM 0 -3.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.2Fasediscavo1-Fase2_953
SETWALL LeftWall_917
GEOM 0 -3.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -13 0 0
ADD Tirantiesistenti+587.00_965
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.3Fasediscavo2-Fase1_973
SETWALL LeftWall_917
GEOM 0 -6.25
SURCHARGE 0 0 0 -6.25
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.4Fasediscavo2-Fase2_991
SETWALL LeftWall_917
GEOM 0 -6.25
SURCHARGE 0 0 0 -6.25
WATER -30 0 -13 0 0
ADD Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.5Fasefinalisediscavoes_1011
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.6Primotirantenuovo_1029
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
ADD TirantinuoviT3_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.7Secondotirantenuovo_1049
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
ADD TirantinuoviT1_3735
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage8Rilasciotirantiesist_3737
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
REMOVE Tirantiesistenti+587.00_965 Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage9Scavodiprogetto_17297
SETWALL LeftWall_917
GEOM 0 -10.5
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage10Sisma_5719
SETWALL LeftWall_917
GEOM 0 -10.5
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
CHANGE Coltredestritica_2_905_L_0 U-KAED=0.59647 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KAEW=1.0372 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KPED=3.9463 LeftWall_917
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



```
CHANGE Coltredestritica_2_905_L_0 U-KPEW=2.4763 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KAED=0.52506 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KAEW=1.2417 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KPED=2.627 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KPEW=0.85515 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KAED=0.5003 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KAEW=0.7327 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KPED=5.5548 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KPEW=4.3355 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KAED=0.4404 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KAEW=0.7799 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KPED=3.7695 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KPEW=2.3816 LeftWall_917
EQK USER 0.2897 0.14485 -0.14485 0 0.5 0 0.5 0 0
* Defining seismic surcharge pressures on wall LeftWall_917
*
* min elevation = -10.5
* max elevation = 0
* average gamma = 20.1428571428571
* kh = 0.2897
* deltaQ = 241.256728125
DLOAD step LeftWall_917 -10.5 22.977 0 22.977
* Include pressure contribution from wall: LeftWall_917
* Include wall contribution
DLOAD step LeftWall_917 -10.5 0.41256 0 0.41256
VARIABLE LeftWallElement_1092 0.5
ENDSTEP
```

10.2 Design Assumption : NTC2018: SLE (Rara/Frequente/Quasi Permanente) - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: NTC2018: SLE (Rara/Frequente/Quasi Permanente)
* Time:mercoledì 14 dicembre 2022 10:28:12
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_917 0 -13 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_917 -13 0 1 0
SOIL 0_R LeftWall_917 -13 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Coltredestritica_2_905_L_0)
*
LDATA Coltredestritica_2_905_L_0 30 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 18 10 10
PERMEABILITY 1E-05
RESISTANCE 0 30 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 30000 48000
ENDL
*
* Soil Profile (Marnaarenacea_8_906_L_0)
*
LDATA Marnaarenacea_8_906_L_0 -3 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 21 13 10
PERMEABILITY 0.0001
RESISTANCE 100 35 0 0 0
TZDATA LINEAR 20000 0 30 0.5 0
KSCALE 0 0
YOUNG 1E+06 1.6E+06
ENDL

* 5: Defining structural materials
* Rebar material: 54 Name=Strands 270 ksi E=200100000 kPa
MATERIAL Strands270ksi_54 2.001E+08
* Concrete material: 1093 Name=C20/25 E=29962000 kPa
MATERIAL C2025_1093 2.9962E+07
* Steel material: 43 Name=Fe510 E=206000200 kPa
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
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Progetto Esecutivo**

MATERIAL Fe510_43 2.06E+08

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later

BEAM LeftWallElement_1092 LeftWall_917 -13 0 Fe510_43 0.080792 0.018495 4.3946E-05 1.4241 00 00 0

* 6.2: Supports

WIRE Tirantiesistenti+587.00_965 LeftWall_917 -3 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+584.00_1003 LeftWall_917 -6 Strands270ksi_54 1.9841E-05 62.5 15 0 0
WIRE TirantinuoviT3_3643 LeftWall_917 -8 Strands270ksi_54 1.9501E-05 62.5 15 0 0
WIRE TirantinuoviT1_3735 LeftWall_917 -1 Strands270ksi_54 1.611E-05 62.5 15 0 0

* 6.3: Strips

* (slope contribution)

STRIP LeftWall_917 1 1 4.8 0.4 0 0.45 45
STRIP LeftWall_917 1 1 5.2 0.4 0 3.6 45
STRIP LeftWall_917 1 1 5.6 0.4 0 7.2 45
STRIP LeftWall_917 1 1 6 0.4 0 10.8 45
STRIP LeftWall_917 1 1 6.4 0.4 0 14.4 45
STRIP LeftWall_917 1 1 6.8 0.4 0 18 45
STRIP LeftWall_917 1 1 7.2 0.4 0 21.6 45
STRIP LeftWall_917 1 1 7.6 0.4 0 25.2 45
STRIP LeftWall_917 1 1 8 0.4 0 28.8 45
STRIP LeftWall_917 1 1 8.4 0.4 0 32.4 45
STRIP LeftWall_917 1 1 8.8 0.4 0 36 45
STRIP LeftWall_917 1 1 9.2 0.4 0 39.6 45
STRIP LeftWall_917 1 1 9.6 0.4 0 43.2 45
STRIP LeftWall_917 1 1 10 0.4 0 46.8 45
STRIP LeftWall_917 1 1 10.4 0.4 0 50.4 45
STRIP LeftWall_917 1 1 10.8 0.4 0 54 45
STRIP LeftWall_917 1 1 11.2 0.4 0 57.6 45
STRIP LeftWall_917 1 1 11.6 0.4 0 61.2 45
STRIP LeftWall_917 1 1 12 0.4 0 64.8 45
STRIP LeftWall_917 1 1 12.4 0.4 0 68.4 45
STRIP LeftWall_917 1 1 12.8 0.4 0 72 45
STRIP LeftWall_917 1 1 13.2 0.4 0 75.6 45
STRIP LeftWall_917 1 1 13.6 0.4 0 79.2 45
STRIP LeftWall_917 1 1 14 0.4 0 82.8 45
STRIP LeftWall_917 1 1 14.4 0.4 0 86.4 45
STRIP LeftWall_917 1 1 14.8 0.4 0 90 45
STRIP LeftWall_917 1 1 15.2 0.4 0 93.6 45
STRIP LeftWall_917 1 1 15.6 0.4 0 97.2 45
STRIP LeftWall_917 1 1 16 0.4 0 100.8 45
STRIP LeftWall_917 1 1 16.4 0.4 0 104.4 45
STRIP LeftWall_917 1 1 16.8 0.4 0 108 45
STRIP LeftWall_917 1 1 17.2 0.4 0 111.6 45
STRIP LeftWall_917 1 1 17.6 0.4 0 115.2 45
STRIP LeftWall_917 1 1 18 0.4 0 118.8 45
STRIP LeftWall_917 1 1 18.4 0.4 0 122.4 45
STRIP LeftWall_917 1 1 18.8 0.4 0 126 45
STRIP LeftWall_917 1 1 19.2 0.4 0 129.6 45
STRIP LeftWall_917 1 1 19.6 0.4 0 133.2 45
STRIP LeftWall_917 1 1 20 0.4 0 136.8 45
STRIP LeftWall_917 1 1 20.4 0.4 0 140.4 45
STRIP LeftWall_917 1 1 20.8 0.4 0 144 45
STRIP LeftWall_917 1 1 21.2 0.4 0 147.6 45
STRIP LeftWall_917 1 1 21.6 0.4 0 151.2 45
STRIP LeftWall_917 1 1 22 0.4 0 154.8 45
STRIP LeftWall_917 1 1 22.4 0.4 0 158.4 45
STRIP LeftWall_917 1 1 22.8 0.4 0 162 45
STRIP LeftWall_917 1 1 23.2 0.4 0 165.6 45
STRIP LeftWall_917 1 1 23.6 0.4 0 169.2 45
STRIP LeftWall_917 1 1 24 0.4 0 172.8 45
STRIP LeftWall_917 1 1 24.4 0.4 0 176.4 45
STRIP LeftWall_917 1 1 24.8 0.4 0 180 45
STRIP LeftWall_917 1 1 25.2 0.4 0 183.6 45
STRIP LeftWall_917 1 1 25.6 0.4 0 187.2 45
STRIP LeftWall_917 1 1 26 0.4 0 190.8 45
STRIP LeftWall_917 1 1 26.4 0.4 0 194.4 45
STRIP LeftWall_917 1 1 26.8 0.4 0 198 45
STRIP LeftWall_917 1 1 27.2 0.4 0 201.6 45
STRIP LeftWall_917 1 1 27.6 0.4 0 205.2 45
STRIP LeftWall_917 1 1 28 0.4 0 208.8 45
STRIP LeftWall_917 1 1 28.4 0.4 0 212.4 45
STRIP LeftWall_917 1 1 28.8 0.4 0 216 45
STRIP LeftWall_917 1 1 29.2 0.4 0 219.6 45
STRIP LeftWall_917 1 1 29.6 0.4 0 223.2 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 1 1 30 0.4 0 226.8 45
STRIP LeftWall_917 1 1 30.4 0.4 0 230.4 45
STRIP LeftWall_917 1 1 30.8 0.4 0 234 45
STRIP LeftWall_917 1 1 31.2 0.4 0 237.6 45
STRIP LeftWall_917 1 1 31.6 0.4 0 241.2 45
STRIP LeftWall_917 1 1 32 0.4 0 244.8 45
STRIP LeftWall_917 1 1 32.4 0.4 0 248.4 45
STRIP LeftWall_917 1 1 32.8 0.4 0 252 45
STRIP LeftWall_917 1 1 33.2 0.4 0 255.6 45
STRIP LeftWall_917 1 1 33.6 0.4 0 259.2 45
STRIP LeftWall_917 1 1 34 0.4 0 262.8 45
STRIP LeftWall_917 1 1 34.4 0.4 0 266.4 45
STRIP LeftWall_917 2 2 4.8 0.4 0 0.45 45
STRIP LeftWall_917 2 2 5.2 0.4 0 3.6 45
STRIP LeftWall_917 2 2 5.6 0.4 0 7.2 45
STRIP LeftWall_917 2 2 6 0.4 0 10.8 45
STRIP LeftWall_917 2 2 6.4 0.4 0 14.4 45
STRIP LeftWall_917 2 2 6.8 0.4 0 18 45
STRIP LeftWall_917 2 2 7.2 0.4 0 21.6 45
STRIP LeftWall_917 2 2 7.6 0.4 0 25.2 45
STRIP LeftWall_917 2 2 8 0.4 0 28.8 45
STRIP LeftWall_917 2 2 8.4 0.4 0 32.4 45
STRIP LeftWall_917 2 2 8.8 0.4 0 36 45
STRIP LeftWall_917 2 2 9.2 0.4 0 39.6 45
STRIP LeftWall_917 2 2 9.6 0.4 0 43.2 45
STRIP LeftWall_917 2 2 10 0.4 0 46.8 45
STRIP LeftWall_917 2 2 10.4 0.4 0 50.4 45
STRIP LeftWall_917 2 2 10.8 0.4 0 54 45
STRIP LeftWall_917 2 2 11.2 0.4 0 57.6 45
STRIP LeftWall_917 2 2 11.6 0.4 0 61.2 45
STRIP LeftWall_917 2 2 12 0.4 0 64.8 45
STRIP LeftWall_917 2 2 12.4 0.4 0 68.4 45
STRIP LeftWall_917 2 2 12.8 0.4 0 72 45
STRIP LeftWall_917 2 2 13.2 0.4 0 75.6 45
STRIP LeftWall_917 2 2 13.6 0.4 0 79.2 45
STRIP LeftWall_917 2 2 14 0.4 0 82.8 45
STRIP LeftWall_917 2 2 14.4 0.4 0 86.4 45
STRIP LeftWall_917 2 2 14.8 0.4 0 90 45
STRIP LeftWall_917 2 2 15.2 0.4 0 93.6 45
STRIP LeftWall_917 2 2 15.6 0.4 0 97.2 45
STRIP LeftWall_917 2 2 16 0.4 0 100.8 45
STRIP LeftWall_917 2 2 16.4 0.4 0 104.4 45
STRIP LeftWall_917 2 2 16.8 0.4 0 108 45
STRIP LeftWall_917 2 2 17.2 0.4 0 111.6 45
STRIP LeftWall_917 2 2 17.6 0.4 0 115.2 45
STRIP LeftWall_917 2 2 18 0.4 0 118.8 45
STRIP LeftWall_917 2 2 18.4 0.4 0 122.4 45
STRIP LeftWall_917 2 2 18.8 0.4 0 126 45
STRIP LeftWall_917 2 2 19.2 0.4 0 129.6 45
STRIP LeftWall_917 2 2 19.6 0.4 0 133.2 45
STRIP LeftWall_917 2 2 20 0.4 0 136.8 45
STRIP LeftWall_917 2 2 20.4 0.4 0 140.4 45
STRIP LeftWall_917 2 2 20.8 0.4 0 144 45
STRIP LeftWall_917 2 2 21.2 0.4 0 147.6 45
STRIP LeftWall_917 2 2 21.6 0.4 0 151.2 45
STRIP LeftWall_917 2 2 22 0.4 0 154.8 45
STRIP LeftWall_917 2 2 22.4 0.4 0 158.4 45
STRIP LeftWall_917 2 2 22.8 0.4 0 162 45
STRIP LeftWall_917 2 2 23.2 0.4 0 165.6 45
STRIP LeftWall_917 2 2 23.6 0.4 0 169.2 45
STRIP LeftWall_917 2 2 24 0.4 0 172.8 45
STRIP LeftWall_917 2 2 24.4 0.4 0 176.4 45
STRIP LeftWall_917 2 2 24.8 0.4 0 180 45
STRIP LeftWall_917 2 2 25.2 0.4 0 183.6 45
STRIP LeftWall_917 2 2 25.6 0.4 0 187.2 45
STRIP LeftWall_917 2 2 26 0.4 0 190.8 45
STRIP LeftWall_917 2 2 26.4 0.4 0 194.4 45
STRIP LeftWall_917 2 2 26.8 0.4 0 198 45
STRIP LeftWall_917 2 2 27.2 0.4 0 201.6 45
STRIP LeftWall_917 2 2 27.6 0.4 0 205.2 45
STRIP LeftWall_917 2 2 28 0.4 0 208.8 45
STRIP LeftWall_917 2 2 28.4 0.4 0 212.4 45
STRIP LeftWall_917 2 2 28.8 0.4 0 216 45
STRIP LeftWall_917 2 2 29.2 0.4 0 219.6 45
STRIP LeftWall_917 2 2 29.6 0.4 0 223.2 45
STRIP LeftWall_917 2 2 30 0.4 0 226.8 45
STRIP LeftWall_917 2 2 30.4 0.4 0 230.4 45
STRIP LeftWall_917 2 2 30.8 0.4 0 234 45
STRIP LeftWall_917 2 2 31.2 0.4 0 237.6 45
STRIP LeftWall_917 2 2 31.6 0.4 0 241.2 45
STRIP LeftWall_917 2 2 32 0.4 0 244.8 45
STRIP LeftWall_917 2 2 32.4 0.4 0 248.4 45
STRIP LeftWall_917 2 2 32.8 0.4 0 252 45
STRIP LeftWall_917 2 2 33.2 0.4 0 255.6 45
STRIP LeftWall_917 2 2 33.6 0.4 0 259.2 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



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Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 2 2 34 0.4 0 262.8 45
STRIP LeftWall_917 2 2 34.4 0.4 0 266.4 45
STRIP LeftWall_917 3 3 4.8 0.4 0 0.45 45
STRIP LeftWall_917 3 3 5.2 0.4 0 3.6 45
STRIP LeftWall_917 3 3 5.6 0.4 0 7.2 45
STRIP LeftWall_917 3 3 6 0.4 0 10.8 45
STRIP LeftWall_917 3 3 6.4 0.4 0 14.4 45
STRIP LeftWall_917 3 3 6.8 0.4 0 18 45
STRIP LeftWall_917 3 3 7.2 0.4 0 21.6 45
STRIP LeftWall_917 3 3 7.6 0.4 0 25.2 45
STRIP LeftWall_917 3 3 8 0.4 0 28.8 45
STRIP LeftWall_917 3 3 8.4 0.4 0 32.4 45
STRIP LeftWall_917 3 3 8.8 0.4 0 36 45
STRIP LeftWall_917 3 3 9.2 0.4 0 39.6 45
STRIP LeftWall_917 3 3 9.6 0.4 0 43.2 45
STRIP LeftWall_917 3 3 10 0.4 0 46.8 45
STRIP LeftWall_917 3 3 10.4 0.4 0 50.4 45
STRIP LeftWall_917 3 3 10.8 0.4 0 54 45
STRIP LeftWall_917 3 3 11.2 0.4 0 57.6 45
STRIP LeftWall_917 3 3 11.6 0.4 0 61.2 45
STRIP LeftWall_917 3 3 12 0.4 0 64.8 45
STRIP LeftWall_917 3 3 12.4 0.4 0 68.4 45
STRIP LeftWall_917 3 3 12.8 0.4 0 72 45
STRIP LeftWall_917 3 3 13.2 0.4 0 75.6 45
STRIP LeftWall_917 3 3 13.6 0.4 0 79.2 45
STRIP LeftWall_917 3 3 14 0.4 0 82.8 45
STRIP LeftWall_917 3 3 14.4 0.4 0 86.4 45
STRIP LeftWall_917 3 3 14.8 0.4 0 90 45
STRIP LeftWall_917 3 3 15.2 0.4 0 93.6 45
STRIP LeftWall_917 3 3 15.6 0.4 0 97.2 45
STRIP LeftWall_917 3 3 16 0.4 0 100.8 45
STRIP LeftWall_917 3 3 16.4 0.4 0 104.4 45
STRIP LeftWall_917 3 3 16.8 0.4 0 108 45
STRIP LeftWall_917 3 3 17.2 0.4 0 111.6 45
STRIP LeftWall_917 3 3 17.6 0.4 0 115.2 45
STRIP LeftWall_917 3 3 18 0.4 0 118.8 45
STRIP LeftWall_917 3 3 18.4 0.4 0 122.4 45
STRIP LeftWall_917 3 3 18.8 0.4 0 126 45
STRIP LeftWall_917 3 3 19.2 0.4 0 129.6 45
STRIP LeftWall_917 3 3 19.6 0.4 0 133.2 45
STRIP LeftWall_917 3 3 20 0.4 0 136.8 45
STRIP LeftWall_917 3 3 20.4 0.4 0 140.4 45
STRIP LeftWall_917 3 3 20.8 0.4 0 144 45
STRIP LeftWall_917 3 3 21.2 0.4 0 147.6 45
STRIP LeftWall_917 3 3 21.6 0.4 0 151.2 45
STRIP LeftWall_917 3 3 22 0.4 0 154.8 45
STRIP LeftWall_917 3 3 22.4 0.4 0 158.4 45
STRIP LeftWall_917 3 3 22.8 0.4 0 162 45
STRIP LeftWall_917 3 3 23.2 0.4 0 165.6 45
STRIP LeftWall_917 3 3 23.6 0.4 0 169.2 45
STRIP LeftWall_917 3 3 24 0.4 0 172.8 45
STRIP LeftWall_917 3 3 24.4 0.4 0 176.4 45
STRIP LeftWall_917 3 3 24.8 0.4 0 180 45
STRIP LeftWall_917 3 3 25.2 0.4 0 183.6 45
STRIP LeftWall_917 3 3 25.6 0.4 0 187.2 45
STRIP LeftWall_917 3 3 26 0.4 0 190.8 45
STRIP LeftWall_917 3 3 26.4 0.4 0 194.4 45
STRIP LeftWall_917 3 3 26.8 0.4 0 198 45
STRIP LeftWall_917 3 3 27.2 0.4 0 201.6 45
STRIP LeftWall_917 3 3 27.6 0.4 0 205.2 45
STRIP LeftWall_917 3 3 28 0.4 0 208.8 45
STRIP LeftWall_917 3 3 28.4 0.4 0 212.4 45
STRIP LeftWall_917 3 3 28.8 0.4 0 216 45
STRIP LeftWall_917 3 3 29.2 0.4 0 219.6 45
STRIP LeftWall_917 3 3 29.6 0.4 0 223.2 45
STRIP LeftWall_917 3 3 30 0.4 0 226.8 45
STRIP LeftWall_917 3 3 30.4 0.4 0 230.4 45
STRIP LeftWall_917 3 3 30.8 0.4 0 234 45
STRIP LeftWall_917 3 3 31.2 0.4 0 237.6 45
STRIP LeftWall_917 3 3 31.6 0.4 0 241.2 45
STRIP LeftWall_917 3 3 32 0.4 0 244.8 45
STRIP LeftWall_917 3 3 32.4 0.4 0 248.4 45
STRIP LeftWall_917 3 3 32.8 0.4 0 252 45
STRIP LeftWall_917 3 3 33.2 0.4 0 255.6 45
STRIP LeftWall_917 3 3 33.6 0.4 0 259.2 45
STRIP LeftWall_917 3 3 34 0.4 0 262.8 45
STRIP LeftWall_917 3 3 34.4 0.4 0 266.4 45
STRIP LeftWall_917 4 4 4.8 0.4 0 0.45 45
STRIP LeftWall_917 4 4 5.2 0.4 0 3.6 45
STRIP LeftWall_917 4 4 5.6 0.4 0 7.2 45
STRIP LeftWall_917 4 4 6 0.4 0 10.8 45
STRIP LeftWall_917 4 4 6.4 0.4 0 14.4 45
STRIP LeftWall_917 4 4 6.8 0.4 0 18 45
STRIP LeftWall_917 4 4 7.2 0.4 0 21.6 45
STRIP LeftWall_917 4 4 7.6 0.4 0 25.2 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 4 4 8 0.4 0 28.8 45
STRIP LeftWall_917 4 4 8.4 0.4 0 32.4 45
STRIP LeftWall_917 4 4 8.8 0.4 0 36 45
STRIP LeftWall_917 4 4 9.2 0.4 0 39.6 45
STRIP LeftWall_917 4 4 9.6 0.4 0 43.2 45
STRIP LeftWall_917 4 4 10 0.4 0 46.8 45
STRIP LeftWall_917 4 4 10.4 0.4 0 50.4 45
STRIP LeftWall_917 4 4 10.8 0.4 0 54 45
STRIP LeftWall_917 4 4 11.2 0.4 0 57.6 45
STRIP LeftWall_917 4 4 11.6 0.4 0 61.2 45
STRIP LeftWall_917 4 4 12 0.4 0 64.8 45
STRIP LeftWall_917 4 4 12.4 0.4 0 68.4 45
STRIP LeftWall_917 4 4 12.8 0.4 0 72 45
STRIP LeftWall_917 4 4 13.2 0.4 0 75.6 45
STRIP LeftWall_917 4 4 13.6 0.4 0 79.2 45
STRIP LeftWall_917 4 4 14 0.4 0 82.8 45
STRIP LeftWall_917 4 4 14.4 0.4 0 86.4 45
STRIP LeftWall_917 4 4 14.8 0.4 0 90 45
STRIP LeftWall_917 4 4 15.2 0.4 0 93.6 45
STRIP LeftWall_917 4 4 15.6 0.4 0 97.2 45
STRIP LeftWall_917 4 4 16 0.4 0 100.8 45
STRIP LeftWall_917 4 4 16.4 0.4 0 104.4 45
STRIP LeftWall_917 4 4 16.8 0.4 0 108 45
STRIP LeftWall_917 4 4 17.2 0.4 0 111.6 45
STRIP LeftWall_917 4 4 17.6 0.4 0 115.2 45
STRIP LeftWall_917 4 4 18 0.4 0 118.8 45
STRIP LeftWall_917 4 4 18.4 0.4 0 122.4 45
STRIP LeftWall_917 4 4 18.8 0.4 0 126 45
STRIP LeftWall_917 4 4 19.2 0.4 0 129.6 45
STRIP LeftWall_917 4 4 19.6 0.4 0 133.2 45
STRIP LeftWall_917 4 4 20 0.4 0 136.8 45
STRIP LeftWall_917 4 4 20.4 0.4 0 140.4 45
STRIP LeftWall_917 4 4 20.8 0.4 0 144 45
STRIP LeftWall_917 4 4 21.2 0.4 0 147.6 45
STRIP LeftWall_917 4 4 21.6 0.4 0 151.2 45
STRIP LeftWall_917 4 4 22 0.4 0 154.8 45
STRIP LeftWall_917 4 4 22.4 0.4 0 158.4 45
STRIP LeftWall_917 4 4 22.8 0.4 0 162 45
STRIP LeftWall_917 4 4 23.2 0.4 0 165.6 45
STRIP LeftWall_917 4 4 23.6 0.4 0 169.2 45
STRIP LeftWall_917 4 4 24 0.4 0 172.8 45
STRIP LeftWall_917 4 4 24.4 0.4 0 176.4 45
STRIP LeftWall_917 4 4 24.8 0.4 0 180 45
STRIP LeftWall_917 4 4 25.2 0.4 0 183.6 45
STRIP LeftWall_917 4 4 25.6 0.4 0 187.2 45
STRIP LeftWall_917 4 4 26 0.4 0 190.8 45
STRIP LeftWall_917 4 4 26.4 0.4 0 194.4 45
STRIP LeftWall_917 4 4 26.8 0.4 0 198 45
STRIP LeftWall_917 4 4 27.2 0.4 0 201.6 45
STRIP LeftWall_917 4 4 27.6 0.4 0 205.2 45
STRIP LeftWall_917 4 4 28 0.4 0 208.8 45
STRIP LeftWall_917 4 4 28.4 0.4 0 212.4 45
STRIP LeftWall_917 4 4 28.8 0.4 0 216 45
STRIP LeftWall_917 4 4 29.2 0.4 0 219.6 45
STRIP LeftWall_917 4 4 29.6 0.4 0 223.2 45
STRIP LeftWall_917 4 4 30 0.4 0 226.8 45
STRIP LeftWall_917 4 4 30.4 0.4 0 230.4 45
STRIP LeftWall_917 4 4 30.8 0.4 0 234 45
STRIP LeftWall_917 4 4 31.2 0.4 0 237.6 45
STRIP LeftWall_917 4 4 31.6 0.4 0 241.2 45
STRIP LeftWall_917 4 4 32 0.4 0 244.8 45
STRIP LeftWall_917 4 4 32.4 0.4 0 248.4 45
STRIP LeftWall_917 4 4 32.8 0.4 0 252 45
STRIP LeftWall_917 4 4 33.2 0.4 0 255.6 45
STRIP LeftWall_917 4 4 33.6 0.4 0 259.2 45
STRIP LeftWall_917 4 4 34 0.4 0 262.8 45
STRIP LeftWall_917 4 4 34.4 0.4 0 266.4 45
STRIP LeftWall_917 5 5 4.8 0.4 0 0.45 45
STRIP LeftWall_917 5 5 5.2 0.4 0 3.6 45
STRIP LeftWall_917 5 5 5.6 0.4 0 7.2 45
STRIP LeftWall_917 5 5 6 0.4 0 10.8 45
STRIP LeftWall_917 5 5 6.4 0.4 0 14.4 45
STRIP LeftWall_917 5 5 6.8 0.4 0 18 45
STRIP LeftWall_917 5 5 7.2 0.4 0 21.6 45
STRIP LeftWall_917 5 5 7.6 0.4 0 25.2 45
STRIP LeftWall_917 5 5 8 0.4 0 28.8 45
STRIP LeftWall_917 5 5 8.4 0.4 0 32.4 45
STRIP LeftWall_917 5 5 8.8 0.4 0 36 45
STRIP LeftWall_917 5 5 9.2 0.4 0 39.6 45
STRIP LeftWall_917 5 5 9.6 0.4 0 43.2 45
STRIP LeftWall_917 5 5 10 0.4 0 46.8 45
STRIP LeftWall_917 5 5 10.4 0.4 0 50.4 45
STRIP LeftWall_917 5 5 10.8 0.4 0 54 45
STRIP LeftWall_917 5 5 11.2 0.4 0 57.6 45
STRIP LeftWall_917 5 5 11.6 0.4 0 61.2 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 5 5 12 0.4 0 64.8 45
STRIP LeftWall_917 5 5 12.4 0.4 0 68.4 45
STRIP LeftWall_917 5 5 12.8 0.4 0 72 45
STRIP LeftWall_917 5 5 13.2 0.4 0 75.6 45
STRIP LeftWall_917 5 5 13.6 0.4 0 79.2 45
STRIP LeftWall_917 5 5 14 0.4 0 82.8 45
STRIP LeftWall_917 5 5 14.4 0.4 0 86.4 45
STRIP LeftWall_917 5 5 14.8 0.4 0 90 45
STRIP LeftWall_917 5 5 15.2 0.4 0 93.6 45
STRIP LeftWall_917 5 5 15.6 0.4 0 97.2 45
STRIP LeftWall_917 5 5 16 0.4 0 100.8 45
STRIP LeftWall_917 5 5 16.4 0.4 0 104.4 45
STRIP LeftWall_917 5 5 16.8 0.4 0 108 45
STRIP LeftWall_917 5 5 17.2 0.4 0 111.6 45
STRIP LeftWall_917 5 5 17.6 0.4 0 115.2 45
STRIP LeftWall_917 5 5 18 0.4 0 118.8 45
STRIP LeftWall_917 5 5 18.4 0.4 0 122.4 45
STRIP LeftWall_917 5 5 18.8 0.4 0 126 45
STRIP LeftWall_917 5 5 19.2 0.4 0 129.6 45
STRIP LeftWall_917 5 5 19.6 0.4 0 133.2 45
STRIP LeftWall_917 5 5 20 0.4 0 136.8 45
STRIP LeftWall_917 5 5 20.4 0.4 0 140.4 45
STRIP LeftWall_917 5 5 20.8 0.4 0 144 45
STRIP LeftWall_917 5 5 21.2 0.4 0 147.6 45
STRIP LeftWall_917 5 5 21.6 0.4 0 151.2 45
STRIP LeftWall_917 5 5 22 0.4 0 154.8 45
STRIP LeftWall_917 5 5 22.4 0.4 0 158.4 45
STRIP LeftWall_917 5 5 22.8 0.4 0 162 45
STRIP LeftWall_917 5 5 23.2 0.4 0 165.6 45
STRIP LeftWall_917 5 5 23.6 0.4 0 169.2 45
STRIP LeftWall_917 5 5 24 0.4 0 172.8 45
STRIP LeftWall_917 5 5 24.4 0.4 0 176.4 45
STRIP LeftWall_917 5 5 24.8 0.4 0 180 45
STRIP LeftWall_917 5 5 25.2 0.4 0 183.6 45
STRIP LeftWall_917 5 5 25.6 0.4 0 187.2 45
STRIP LeftWall_917 5 5 26 0.4 0 190.8 45
STRIP LeftWall_917 5 5 26.4 0.4 0 194.4 45
STRIP LeftWall_917 5 5 26.8 0.4 0 198 45
STRIP LeftWall_917 5 5 27.2 0.4 0 201.6 45
STRIP LeftWall_917 5 5 27.6 0.4 0 205.2 45
STRIP LeftWall_917 5 5 28 0.4 0 208.8 45
STRIP LeftWall_917 5 5 28.4 0.4 0 212.4 45
STRIP LeftWall_917 5 5 28.8 0.4 0 216 45
STRIP LeftWall_917 5 5 29.2 0.4 0 219.6 45
STRIP LeftWall_917 5 5 29.6 0.4 0 223.2 45
STRIP LeftWall_917 5 5 30 0.4 0 226.8 45
STRIP LeftWall_917 5 5 30.4 0.4 0 230.4 45
STRIP LeftWall_917 5 5 30.8 0.4 0 234 45
STRIP LeftWall_917 5 5 31.2 0.4 0 237.6 45
STRIP LeftWall_917 5 5 31.6 0.4 0 241.2 45
STRIP LeftWall_917 5 5 32 0.4 0 244.8 45
STRIP LeftWall_917 5 5 32.4 0.4 0 248.4 45
STRIP LeftWall_917 5 5 32.8 0.4 0 252 45
STRIP LeftWall_917 5 5 33.2 0.4 0 255.6 45
STRIP LeftWall_917 5 5 33.6 0.4 0 259.2 45
STRIP LeftWall_917 5 5 34 0.4 0 262.8 45
STRIP LeftWall_917 5 5 34.4 0.4 0 266.4 45
STRIP LeftWall_917 6 6 4.8 0.4 0 0.45 45
STRIP LeftWall_917 6 6 5.2 0.4 0 3.6 45
STRIP LeftWall_917 6 6 5.6 0.4 0 7.2 45
STRIP LeftWall_917 6 6 6 0.4 0 10.8 45
STRIP LeftWall_917 6 6 6.4 0.4 0 14.4 45
STRIP LeftWall_917 6 6 6.8 0.4 0 18 45
STRIP LeftWall_917 6 6 7.2 0.4 0 21.6 45
STRIP LeftWall_917 6 6 7.6 0.4 0 25.2 45
STRIP LeftWall_917 6 6 8 0.4 0 28.8 45
STRIP LeftWall_917 6 6 8.4 0.4 0 32.4 45
STRIP LeftWall_917 6 6 8.8 0.4 0 36 45
STRIP LeftWall_917 6 6 9.2 0.4 0 39.6 45
STRIP LeftWall_917 6 6 9.6 0.4 0 43.2 45
STRIP LeftWall_917 6 6 10 0.4 0 46.8 45
STRIP LeftWall_917 6 6 10.4 0.4 0 50.4 45
STRIP LeftWall_917 6 6 10.8 0.4 0 54 45
STRIP LeftWall_917 6 6 11.2 0.4 0 57.6 45
STRIP LeftWall_917 6 6 11.6 0.4 0 61.2 45
STRIP LeftWall_917 6 6 12 0.4 0 64.8 45
STRIP LeftWall_917 6 6 12.4 0.4 0 68.4 45
STRIP LeftWall_917 6 6 12.8 0.4 0 72 45
STRIP LeftWall_917 6 6 13.2 0.4 0 75.6 45
STRIP LeftWall_917 6 6 13.6 0.4 0 79.2 45
STRIP LeftWall_917 6 6 14 0.4 0 82.8 45
STRIP LeftWall_917 6 6 14.4 0.4 0 86.4 45
STRIP LeftWall_917 6 6 14.8 0.4 0 90 45
STRIP LeftWall_917 6 6 15.2 0.4 0 93.6 45
STRIP LeftWall_917 6 6 15.6 0.4 0 97.2 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 6 6 16 0.4 0 100.8 45
STRIP LeftWall_917 6 6 16.4 0.4 0 104.4 45
STRIP LeftWall_917 6 6 16.8 0.4 0 108 45
STRIP LeftWall_917 6 6 17.2 0.4 0 111.6 45
STRIP LeftWall_917 6 6 17.6 0.4 0 115.2 45
STRIP LeftWall_917 6 6 18 0.4 0 118.8 45
STRIP LeftWall_917 6 6 18.4 0.4 0 122.4 45
STRIP LeftWall_917 6 6 18.8 0.4 0 126 45
STRIP LeftWall_917 6 6 19.2 0.4 0 129.6 45
STRIP LeftWall_917 6 6 19.6 0.4 0 133.2 45
STRIP LeftWall_917 6 6 20 0.4 0 136.8 45
STRIP LeftWall_917 6 6 20.4 0.4 0 140.4 45
STRIP LeftWall_917 6 6 20.8 0.4 0 144 45
STRIP LeftWall_917 6 6 21.2 0.4 0 147.6 45
STRIP LeftWall_917 6 6 21.6 0.4 0 151.2 45
STRIP LeftWall_917 6 6 22 0.4 0 154.8 45
STRIP LeftWall_917 6 6 22.4 0.4 0 158.4 45
STRIP LeftWall_917 6 6 22.8 0.4 0 162 45
STRIP LeftWall_917 6 6 23.2 0.4 0 165.6 45
STRIP LeftWall_917 6 6 23.6 0.4 0 169.2 45
STRIP LeftWall_917 6 6 24 0.4 0 172.8 45
STRIP LeftWall_917 6 6 24.4 0.4 0 176.4 45
STRIP LeftWall_917 6 6 24.8 0.4 0 180 45
STRIP LeftWall_917 6 6 25.2 0.4 0 183.6 45
STRIP LeftWall_917 6 6 25.6 0.4 0 187.2 45
STRIP LeftWall_917 6 6 26 0.4 0 190.8 45
STRIP LeftWall_917 6 6 26.4 0.4 0 194.4 45
STRIP LeftWall_917 6 6 26.8 0.4 0 198 45
STRIP LeftWall_917 6 6 27.2 0.4 0 201.6 45
STRIP LeftWall_917 6 6 27.6 0.4 0 205.2 45
STRIP LeftWall_917 6 6 28 0.4 0 208.8 45
STRIP LeftWall_917 6 6 28.4 0.4 0 212.4 45
STRIP LeftWall_917 6 6 28.8 0.4 0 216 45
STRIP LeftWall_917 6 6 29.2 0.4 0 219.6 45
STRIP LeftWall_917 6 6 29.6 0.4 0 223.2 45
STRIP LeftWall_917 6 6 30 0.4 0 226.8 45
STRIP LeftWall_917 6 6 30.4 0.4 0 230.4 45
STRIP LeftWall_917 6 6 30.8 0.4 0 234 45
STRIP LeftWall_917 6 6 31.2 0.4 0 237.6 45
STRIP LeftWall_917 6 6 31.6 0.4 0 241.2 45
STRIP LeftWall_917 6 6 32 0.4 0 244.8 45
STRIP LeftWall_917 6 6 32.4 0.4 0 248.4 45
STRIP LeftWall_917 6 6 32.8 0.4 0 252 45
STRIP LeftWall_917 6 6 33.2 0.4 0 255.6 45
STRIP LeftWall_917 6 6 33.6 0.4 0 259.2 45
STRIP LeftWall_917 6 6 34 0.4 0 262.8 45
STRIP LeftWall_917 6 6 34.4 0.4 0 266.4 45
STRIP LeftWall_917 7 7 4.8 0.4 0 0.45 45
STRIP LeftWall_917 7 7 5.2 0.4 0 3.6 45
STRIP LeftWall_917 7 7 5.6 0.4 0 7.2 45
STRIP LeftWall_917 7 7 6 0.4 0 10.8 45
STRIP LeftWall_917 7 7 6.4 0.4 0 14.4 45
STRIP LeftWall_917 7 7 6.8 0.4 0 18 45
STRIP LeftWall_917 7 7 7.2 0.4 0 21.6 45
STRIP LeftWall_917 7 7 7.6 0.4 0 25.2 45
STRIP LeftWall_917 7 7 8 0.4 0 28.8 45
STRIP LeftWall_917 7 7 8.4 0.4 0 32.4 45
STRIP LeftWall_917 7 7 8.8 0.4 0 36 45
STRIP LeftWall_917 7 7 9.2 0.4 0 39.6 45
STRIP LeftWall_917 7 7 9.6 0.4 0 43.2 45
STRIP LeftWall_917 7 7 10 0.4 0 46.8 45
STRIP LeftWall_917 7 7 10.4 0.4 0 50.4 45
STRIP LeftWall_917 7 7 10.8 0.4 0 54 45
STRIP LeftWall_917 7 7 11.2 0.4 0 57.6 45
STRIP LeftWall_917 7 7 11.6 0.4 0 61.2 45
STRIP LeftWall_917 7 7 12 0.4 0 64.8 45
STRIP LeftWall_917 7 7 12.4 0.4 0 68.4 45
STRIP LeftWall_917 7 7 12.8 0.4 0 72 45
STRIP LeftWall_917 7 7 13.2 0.4 0 75.6 45
STRIP LeftWall_917 7 7 13.6 0.4 0 79.2 45
STRIP LeftWall_917 7 7 14 0.4 0 82.8 45
STRIP LeftWall_917 7 7 14.4 0.4 0 86.4 45
STRIP LeftWall_917 7 7 14.8 0.4 0 90 45
STRIP LeftWall_917 7 7 15.2 0.4 0 93.6 45
STRIP LeftWall_917 7 7 15.6 0.4 0 97.2 45
STRIP LeftWall_917 7 7 16 0.4 0 100.8 45
STRIP LeftWall_917 7 7 16.4 0.4 0 104.4 45
STRIP LeftWall_917 7 7 16.8 0.4 0 108 45
STRIP LeftWall_917 7 7 17.2 0.4 0 111.6 45
STRIP LeftWall_917 7 7 17.6 0.4 0 115.2 45
STRIP LeftWall_917 7 7 18 0.4 0 118.8 45
STRIP LeftWall_917 7 7 18.4 0.4 0 122.4 45
STRIP LeftWall_917 7 7 18.8 0.4 0 126 45
STRIP LeftWall_917 7 7 19.2 0.4 0 129.6 45
STRIP LeftWall_917 7 7 19.6 0.4 0 133.2 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 7 7 20 0.4 0 136.8 45
STRIP LeftWall_917 7 7 20.4 0.4 0 140.4 45
STRIP LeftWall_917 7 7 20.8 0.4 0 144 45
STRIP LeftWall_917 7 7 21.2 0.4 0 147.6 45
STRIP LeftWall_917 7 7 21.6 0.4 0 151.2 45
STRIP LeftWall_917 7 7 22 0.4 0 154.8 45
STRIP LeftWall_917 7 7 22.4 0.4 0 158.4 45
STRIP LeftWall_917 7 7 22.8 0.4 0 162 45
STRIP LeftWall_917 7 7 23.2 0.4 0 165.6 45
STRIP LeftWall_917 7 7 23.6 0.4 0 169.2 45
STRIP LeftWall_917 7 7 24 0.4 0 172.8 45
STRIP LeftWall_917 7 7 24.4 0.4 0 176.4 45
STRIP LeftWall_917 7 7 24.8 0.4 0 180 45
STRIP LeftWall_917 7 7 25.2 0.4 0 183.6 45
STRIP LeftWall_917 7 7 25.6 0.4 0 187.2 45
STRIP LeftWall_917 7 7 26 0.4 0 190.8 45
STRIP LeftWall_917 7 7 26.4 0.4 0 194.4 45
STRIP LeftWall_917 7 7 26.8 0.4 0 198 45
STRIP LeftWall_917 7 7 27.2 0.4 0 201.6 45
STRIP LeftWall_917 7 7 27.6 0.4 0 205.2 45
STRIP LeftWall_917 7 7 28 0.4 0 208.8 45
STRIP LeftWall_917 7 7 28.4 0.4 0 212.4 45
STRIP LeftWall_917 7 7 28.8 0.4 0 216 45
STRIP LeftWall_917 7 7 29.2 0.4 0 219.6 45
STRIP LeftWall_917 7 7 29.6 0.4 0 223.2 45
STRIP LeftWall_917 7 7 30 0.4 0 226.8 45
STRIP LeftWall_917 7 7 30.4 0.4 0 230.4 45
STRIP LeftWall_917 7 7 30.8 0.4 0 234 45
STRIP LeftWall_917 7 7 31.2 0.4 0 237.6 45
STRIP LeftWall_917 7 7 31.6 0.4 0 241.2 45
STRIP LeftWall_917 7 7 32 0.4 0 244.8 45
STRIP LeftWall_917 7 7 32.4 0.4 0 248.4 45
STRIP LeftWall_917 7 7 32.8 0.4 0 252 45
STRIP LeftWall_917 7 7 33.2 0.4 0 255.6 45
STRIP LeftWall_917 7 7 33.6 0.4 0 259.2 45
STRIP LeftWall_917 7 7 34 0.4 0 262.8 45
STRIP LeftWall_917 7 7 34.4 0.4 0 266.4 45
STRIP LeftWall_917 8 8 4.8 0.4 0 0.45 45
STRIP LeftWall_917 8 8 5.2 0.4 0 3.6 45
STRIP LeftWall_917 8 8 5.6 0.4 0 7.2 45
STRIP LeftWall_917 8 8 6 0.4 0 10.8 45
STRIP LeftWall_917 8 8 6.4 0.4 0 14.4 45
STRIP LeftWall_917 8 8 6.8 0.4 0 18 45
STRIP LeftWall_917 8 8 7.2 0.4 0 21.6 45
STRIP LeftWall_917 8 8 7.6 0.4 0 25.2 45
STRIP LeftWall_917 8 8 8 0.4 0 28.8 45
STRIP LeftWall_917 8 8 8.4 0.4 0 32.4 45
STRIP LeftWall_917 8 8 8.8 0.4 0 36 45
STRIP LeftWall_917 8 8 9.2 0.4 0 39.6 45
STRIP LeftWall_917 8 8 9.6 0.4 0 43.2 45
STRIP LeftWall_917 8 8 10 0.4 0 46.8 45
STRIP LeftWall_917 8 8 10.4 0.4 0 50.4 45
STRIP LeftWall_917 8 8 10.8 0.4 0 54 45
STRIP LeftWall_917 8 8 11.2 0.4 0 57.6 45
STRIP LeftWall_917 8 8 11.6 0.4 0 61.2 45
STRIP LeftWall_917 8 8 12 0.4 0 64.8 45
STRIP LeftWall_917 8 8 12.4 0.4 0 68.4 45
STRIP LeftWall_917 8 8 12.8 0.4 0 72 45
STRIP LeftWall_917 8 8 13.2 0.4 0 75.6 45
STRIP LeftWall_917 8 8 13.6 0.4 0 79.2 45
STRIP LeftWall_917 8 8 14 0.4 0 82.8 45
STRIP LeftWall_917 8 8 14.4 0.4 0 86.4 45
STRIP LeftWall_917 8 8 14.8 0.4 0 90 45
STRIP LeftWall_917 8 8 15.2 0.4 0 93.6 45
STRIP LeftWall_917 8 8 15.6 0.4 0 97.2 45
STRIP LeftWall_917 8 8 16 0.4 0 100.8 45
STRIP LeftWall_917 8 8 16.4 0.4 0 104.4 45
STRIP LeftWall_917 8 8 16.8 0.4 0 108 45
STRIP LeftWall_917 8 8 17.2 0.4 0 111.6 45
STRIP LeftWall_917 8 8 17.6 0.4 0 115.2 45
STRIP LeftWall_917 8 8 18 0.4 0 118.8 45
STRIP LeftWall_917 8 8 18.4 0.4 0 122.4 45
STRIP LeftWall_917 8 8 18.8 0.4 0 126 45
STRIP LeftWall_917 8 8 19.2 0.4 0 129.6 45
STRIP LeftWall_917 8 8 19.6 0.4 0 133.2 45
STRIP LeftWall_917 8 8 20 0.4 0 136.8 45
STRIP LeftWall_917 8 8 20.4 0.4 0 140.4 45
STRIP LeftWall_917 8 8 20.8 0.4 0 144 45
STRIP LeftWall_917 8 8 21.2 0.4 0 147.6 45
STRIP LeftWall_917 8 8 21.6 0.4 0 151.2 45
STRIP LeftWall_917 8 8 22 0.4 0 154.8 45
STRIP LeftWall_917 8 8 22.4 0.4 0 158.4 45
STRIP LeftWall_917 8 8 22.8 0.4 0 162 45
STRIP LeftWall_917 8 8 23.2 0.4 0 165.6 45
STRIP LeftWall_917 8 8 23.6 0.4 0 169.2 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 8 8 24 0.4 0 172.8 45
STRIP LeftWall_917 8 8 24.4 0.4 0 176.4 45
STRIP LeftWall_917 8 8 24.8 0.4 0 180 45
STRIP LeftWall_917 8 8 25.2 0.4 0 183.6 45
STRIP LeftWall_917 8 8 25.6 0.4 0 187.2 45
STRIP LeftWall_917 8 8 26 0.4 0 190.8 45
STRIP LeftWall_917 8 8 26.4 0.4 0 194.4 45
STRIP LeftWall_917 8 8 26.8 0.4 0 198 45
STRIP LeftWall_917 8 8 27.2 0.4 0 201.6 45
STRIP LeftWall_917 8 8 27.6 0.4 0 205.2 45
STRIP LeftWall_917 8 8 28 0.4 0 208.8 45
STRIP LeftWall_917 8 8 28.4 0.4 0 212.4 45
STRIP LeftWall_917 8 8 28.8 0.4 0 216 45
STRIP LeftWall_917 8 8 29.2 0.4 0 219.6 45
STRIP LeftWall_917 8 8 29.6 0.4 0 223.2 45
STRIP LeftWall_917 8 8 30 0.4 0 226.8 45
STRIP LeftWall_917 8 8 30.4 0.4 0 230.4 45
STRIP LeftWall_917 8 8 30.8 0.4 0 234 45
STRIP LeftWall_917 8 8 31.2 0.4 0 237.6 45
STRIP LeftWall_917 8 8 31.6 0.4 0 241.2 45
STRIP LeftWall_917 8 8 32 0.4 0 244.8 45
STRIP LeftWall_917 8 8 32.4 0.4 0 248.4 45
STRIP LeftWall_917 8 8 32.8 0.4 0 252 45
STRIP LeftWall_917 8 8 33.2 0.4 0 255.6 45
STRIP LeftWall_917 8 8 33.6 0.4 0 259.2 45
STRIP LeftWall_917 8 8 34 0.4 0 262.8 45
STRIP LeftWall_917 8 8 34.4 0.4 0 266.4 45
STRIP LeftWall_917 9 9 4.8 0.4 0 0.45 45
STRIP LeftWall_917 9 9 5.2 0.4 0 3.6 45
STRIP LeftWall_917 9 9 5.6 0.4 0 7.2 45
STRIP LeftWall_917 9 9 6 0.4 0 10.8 45
STRIP LeftWall_917 9 9 6.4 0.4 0 14.4 45
STRIP LeftWall_917 9 9 6.8 0.4 0 18 45
STRIP LeftWall_917 9 9 7.2 0.4 0 21.6 45
STRIP LeftWall_917 9 9 7.6 0.4 0 25.2 45
STRIP LeftWall_917 9 9 8 0.4 0 28.8 45
STRIP LeftWall_917 9 9 8.4 0.4 0 32.4 45
STRIP LeftWall_917 9 9 8.8 0.4 0 36 45
STRIP LeftWall_917 9 9 9.2 0.4 0 39.6 45
STRIP LeftWall_917 9 9 9.6 0.4 0 43.2 45
STRIP LeftWall_917 9 9 10 0.4 0 46.8 45
STRIP LeftWall_917 9 9 10.4 0.4 0 50.4 45
STRIP LeftWall_917 9 9 10.8 0.4 0 54 45
STRIP LeftWall_917 9 9 11.2 0.4 0 57.6 45
STRIP LeftWall_917 9 9 11.6 0.4 0 61.2 45
STRIP LeftWall_917 9 9 12 0.4 0 64.8 45
STRIP LeftWall_917 9 9 12.4 0.4 0 68.4 45
STRIP LeftWall_917 9 9 12.8 0.4 0 72 45
STRIP LeftWall_917 9 9 13.2 0.4 0 75.6 45
STRIP LeftWall_917 9 9 13.6 0.4 0 79.2 45
STRIP LeftWall_917 9 9 14 0.4 0 82.8 45
STRIP LeftWall_917 9 9 14.4 0.4 0 86.4 45
STRIP LeftWall_917 9 9 14.8 0.4 0 90 45
STRIP LeftWall_917 9 9 15.2 0.4 0 93.6 45
STRIP LeftWall_917 9 9 15.6 0.4 0 97.2 45
STRIP LeftWall_917 9 9 16 0.4 0 100.8 45
STRIP LeftWall_917 9 9 16.4 0.4 0 104.4 45
STRIP LeftWall_917 9 9 16.8 0.4 0 108 45
STRIP LeftWall_917 9 9 17.2 0.4 0 111.6 45
STRIP LeftWall_917 9 9 17.6 0.4 0 115.2 45
STRIP LeftWall_917 9 9 18 0.4 0 118.8 45
STRIP LeftWall_917 9 9 18.4 0.4 0 122.4 45
STRIP LeftWall_917 9 9 18.8 0.4 0 126 45
STRIP LeftWall_917 9 9 19.2 0.4 0 129.6 45
STRIP LeftWall_917 9 9 19.6 0.4 0 133.2 45
STRIP LeftWall_917 9 9 20 0.4 0 136.8 45
STRIP LeftWall_917 9 9 20.4 0.4 0 140.4 45
STRIP LeftWall_917 9 9 20.8 0.4 0 144 45
STRIP LeftWall_917 9 9 21.2 0.4 0 147.6 45
STRIP LeftWall_917 9 9 21.6 0.4 0 151.2 45
STRIP LeftWall_917 9 9 22 0.4 0 154.8 45
STRIP LeftWall_917 9 9 22.4 0.4 0 158.4 45
STRIP LeftWall_917 9 9 22.8 0.4 0 162 45
STRIP LeftWall_917 9 9 23.2 0.4 0 165.6 45
STRIP LeftWall_917 9 9 23.6 0.4 0 169.2 45
STRIP LeftWall_917 9 9 24 0.4 0 172.8 45
STRIP LeftWall_917 9 9 24.4 0.4 0 176.4 45
STRIP LeftWall_917 9 9 24.8 0.4 0 180 45
STRIP LeftWall_917 9 9 25.2 0.4 0 183.6 45
STRIP LeftWall_917 9 9 25.6 0.4 0 187.2 45
STRIP LeftWall_917 9 9 26 0.4 0 190.8 45
STRIP LeftWall_917 9 9 26.4 0.4 0 194.4 45
STRIP LeftWall_917 9 9 26.8 0.4 0 198 45
STRIP LeftWall_917 9 9 27.2 0.4 0 201.6 45
STRIP LeftWall_917 9 9 27.6 0.4 0 205.2 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 9 9 28 0.4 0 208.8 45
STRIP LeftWall_917 9 9 28.4 0.4 0 212.4 45
STRIP LeftWall_917 9 9 28.8 0.4 0 216 45
STRIP LeftWall_917 9 9 29.2 0.4 0 219.6 45
STRIP LeftWall_917 9 9 29.6 0.4 0 223.2 45
STRIP LeftWall_917 9 9 30 0.4 0 226.8 45
STRIP LeftWall_917 9 9 30.4 0.4 0 230.4 45
STRIP LeftWall_917 9 9 30.8 0.4 0 234 45
STRIP LeftWall_917 9 9 31.2 0.4 0 237.6 45
STRIP LeftWall_917 9 9 31.6 0.4 0 241.2 45
STRIP LeftWall_917 9 9 32 0.4 0 244.8 45
STRIP LeftWall_917 9 9 32.4 0.4 0 248.4 45
STRIP LeftWall_917 9 9 32.8 0.4 0 252 45
STRIP LeftWall_917 9 9 33.2 0.4 0 255.6 45
STRIP LeftWall_917 9 9 33.6 0.4 0 259.2 45
STRIP LeftWall_917 9 9 34 0.4 0 262.8 45
STRIP LeftWall_917 9 9 34.4 0.4 0 266.4 45
STRIP LeftWall_917 10 10 4.8 0.4 0 0.45 45
STRIP LeftWall_917 10 10 5.2 0.4 0 3.6 45
STRIP LeftWall_917 10 10 5.6 0.4 0 7.2 45
STRIP LeftWall_917 10 10 6 0.4 0 10.8 45
STRIP LeftWall_917 10 10 6.4 0.4 0 14.4 45
STRIP LeftWall_917 10 10 6.8 0.4 0 18 45
STRIP LeftWall_917 10 10 7.2 0.4 0 21.6 45
STRIP LeftWall_917 10 10 7.6 0.4 0 25.2 45
STRIP LeftWall_917 10 10 8 0.4 0 28.8 45
STRIP LeftWall_917 10 10 8.4 0.4 0 32.4 45
STRIP LeftWall_917 10 10 8.8 0.4 0 36 45
STRIP LeftWall_917 10 10 9.2 0.4 0 39.6 45
STRIP LeftWall_917 10 10 9.6 0.4 0 43.2 45
STRIP LeftWall_917 10 10 10 0.4 0 46.8 45
STRIP LeftWall_917 10 10 10.4 0.4 0 50.4 45
STRIP LeftWall_917 10 10 10.8 0.4 0 54 45
STRIP LeftWall_917 10 10 11.2 0.4 0 57.6 45
STRIP LeftWall_917 10 10 11.6 0.4 0 61.2 45
STRIP LeftWall_917 10 10 12 0.4 0 64.8 45
STRIP LeftWall_917 10 10 12.4 0.4 0 68.4 45
STRIP LeftWall_917 10 10 12.8 0.4 0 72 45
STRIP LeftWall_917 10 10 13.2 0.4 0 75.6 45
STRIP LeftWall_917 10 10 13.6 0.4 0 79.2 45
STRIP LeftWall_917 10 10 14 0.4 0 82.8 45
STRIP LeftWall_917 10 10 14.4 0.4 0 86.4 45
STRIP LeftWall_917 10 10 14.8 0.4 0 90 45
STRIP LeftWall_917 10 10 15.2 0.4 0 93.6 45
STRIP LeftWall_917 10 10 15.6 0.4 0 97.2 45
STRIP LeftWall_917 10 10 16 0.4 0 100.8 45
STRIP LeftWall_917 10 10 16.4 0.4 0 104.4 45
STRIP LeftWall_917 10 10 16.8 0.4 0 108 45
STRIP LeftWall_917 10 10 17.2 0.4 0 111.6 45
STRIP LeftWall_917 10 10 17.6 0.4 0 115.2 45
STRIP LeftWall_917 10 10 18 0.4 0 118.8 45
STRIP LeftWall_917 10 10 18.4 0.4 0 122.4 45
STRIP LeftWall_917 10 10 18.8 0.4 0 126 45
STRIP LeftWall_917 10 10 19.2 0.4 0 129.6 45
STRIP LeftWall_917 10 10 19.6 0.4 0 133.2 45
STRIP LeftWall_917 10 10 20 0.4 0 136.8 45
STRIP LeftWall_917 10 10 20.4 0.4 0 140.4 45
STRIP LeftWall_917 10 10 20.8 0.4 0 144 45
STRIP LeftWall_917 10 10 21.2 0.4 0 147.6 45
STRIP LeftWall_917 10 10 21.6 0.4 0 151.2 45
STRIP LeftWall_917 10 10 22 0.4 0 154.8 45
STRIP LeftWall_917 10 10 22.4 0.4 0 158.4 45
STRIP LeftWall_917 10 10 22.8 0.4 0 162 45
STRIP LeftWall_917 10 10 23.2 0.4 0 165.6 45
STRIP LeftWall_917 10 10 23.6 0.4 0 169.2 45
STRIP LeftWall_917 10 10 24 0.4 0 172.8 45
STRIP LeftWall_917 10 10 24.4 0.4 0 176.4 45
STRIP LeftWall_917 10 10 24.8 0.4 0 180 45
STRIP LeftWall_917 10 10 25.2 0.4 0 183.6 45
STRIP LeftWall_917 10 10 25.6 0.4 0 187.2 45
STRIP LeftWall_917 10 10 26 0.4 0 190.8 45
STRIP LeftWall_917 10 10 26.4 0.4 0 194.4 45
STRIP LeftWall_917 10 10 26.8 0.4 0 198 45
STRIP LeftWall_917 10 10 27.2 0.4 0 201.6 45
STRIP LeftWall_917 10 10 27.6 0.4 0 205.2 45
STRIP LeftWall_917 10 10 28 0.4 0 208.8 45
STRIP LeftWall_917 10 10 28.4 0.4 0 212.4 45
STRIP LeftWall_917 10 10 28.8 0.4 0 216 45
STRIP LeftWall_917 10 10 29.2 0.4 0 219.6 45
STRIP LeftWall_917 10 10 29.6 0.4 0 223.2 45
STRIP LeftWall_917 10 10 30 0.4 0 226.8 45
STRIP LeftWall_917 10 10 30.4 0.4 0 230.4 45
STRIP LeftWall_917 10 10 30.8 0.4 0 234 45
STRIP LeftWall_917 10 10 31.2 0.4 0 237.6 45
STRIP LeftWall_917 10 10 31.6 0.4 0 241.2 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 10 10 32 0.4 0 244.8 45
STRIP LeftWall_917 10 10 32.4 0.4 0 248.4 45
STRIP LeftWall_917 10 10 32.8 0.4 0 252 45
STRIP LeftWall_917 10 10 33.2 0.4 0 255.6 45
STRIP LeftWall_917 10 10 33.6 0.4 0 259.2 45
STRIP LeftWall_917 10 10 34 0.4 0 262.8 45
STRIP LeftWall_917 10 10 34.4 0.4 0 266.4 45
STRIP LeftWall_917 11 11 4.8 0.4 0 0.45 45
STRIP LeftWall_917 11 11 5.2 0.4 0 3.6 45
STRIP LeftWall_917 11 11 5.6 0.4 0 7.2 45
STRIP LeftWall_917 11 11 6 0.4 0 10.8 45
STRIP LeftWall_917 11 11 6.4 0.4 0 14.4 45
STRIP LeftWall_917 11 11 6.8 0.4 0 18 45
STRIP LeftWall_917 11 11 7.2 0.4 0 21.6 45
STRIP LeftWall_917 11 11 7.6 0.4 0 25.2 45
STRIP LeftWall_917 11 11 8 0.4 0 28.8 45
STRIP LeftWall_917 11 11 8.4 0.4 0 32.4 45
STRIP LeftWall_917 11 11 8.8 0.4 0 36 45
STRIP LeftWall_917 11 11 9.2 0.4 0 39.6 45
STRIP LeftWall_917 11 11 9.6 0.4 0 43.2 45
STRIP LeftWall_917 11 11 10 0.4 0 46.8 45
STRIP LeftWall_917 11 11 10.4 0.4 0 50.4 45
STRIP LeftWall_917 11 11 10.8 0.4 0 54 45
STRIP LeftWall_917 11 11 11.2 0.4 0 57.6 45
STRIP LeftWall_917 11 11 11.6 0.4 0 61.2 45
STRIP LeftWall_917 11 11 12 0.4 0 64.8 45
STRIP LeftWall_917 11 11 12.4 0.4 0 68.4 45
STRIP LeftWall_917 11 11 12.8 0.4 0 72 45
STRIP LeftWall_917 11 11 13.2 0.4 0 75.6 45
STRIP LeftWall_917 11 11 13.6 0.4 0 79.2 45
STRIP LeftWall_917 11 11 14 0.4 0 82.8 45
STRIP LeftWall_917 11 11 14.4 0.4 0 86.4 45
STRIP LeftWall_917 11 11 14.8 0.4 0 90 45
STRIP LeftWall_917 11 11 15.2 0.4 0 93.6 45
STRIP LeftWall_917 11 11 15.6 0.4 0 97.2 45
STRIP LeftWall_917 11 11 16 0.4 0 100.8 45
STRIP LeftWall_917 11 11 16.4 0.4 0 104.4 45
STRIP LeftWall_917 11 11 16.8 0.4 0 108 45
STRIP LeftWall_917 11 11 17.2 0.4 0 111.6 45
STRIP LeftWall_917 11 11 17.6 0.4 0 115.2 45
STRIP LeftWall_917 11 11 18 0.4 0 118.8 45
STRIP LeftWall_917 11 11 18.4 0.4 0 122.4 45
STRIP LeftWall_917 11 11 18.8 0.4 0 126 45
STRIP LeftWall_917 11 11 19.2 0.4 0 129.6 45
STRIP LeftWall_917 11 11 19.6 0.4 0 133.2 45
STRIP LeftWall_917 11 11 20 0.4 0 136.8 45
STRIP LeftWall_917 11 11 20.4 0.4 0 140.4 45
STRIP LeftWall_917 11 11 20.8 0.4 0 144 45
STRIP LeftWall_917 11 11 21.2 0.4 0 147.6 45
STRIP LeftWall_917 11 11 21.6 0.4 0 151.2 45
STRIP LeftWall_917 11 11 22 0.4 0 154.8 45
STRIP LeftWall_917 11 11 22.4 0.4 0 158.4 45
STRIP LeftWall_917 11 11 22.8 0.4 0 162 45
STRIP LeftWall_917 11 11 23.2 0.4 0 165.6 45
STRIP LeftWall_917 11 11 23.6 0.4 0 169.2 45
STRIP LeftWall_917 11 11 24 0.4 0 172.8 45
STRIP LeftWall_917 11 11 24.4 0.4 0 176.4 45
STRIP LeftWall_917 11 11 24.8 0.4 0 180 45
STRIP LeftWall_917 11 11 25.2 0.4 0 183.6 45
STRIP LeftWall_917 11 11 25.6 0.4 0 187.2 45
STRIP LeftWall_917 11 11 26 0.4 0 190.8 45
STRIP LeftWall_917 11 11 26.4 0.4 0 194.4 45
STRIP LeftWall_917 11 11 26.8 0.4 0 198 45
STRIP LeftWall_917 11 11 27.2 0.4 0 201.6 45
STRIP LeftWall_917 11 11 27.6 0.4 0 205.2 45
STRIP LeftWall_917 11 11 28 0.4 0 208.8 45
STRIP LeftWall_917 11 11 28.4 0.4 0 212.4 45
STRIP LeftWall_917 11 11 28.8 0.4 0 216 45
STRIP LeftWall_917 11 11 29.2 0.4 0 219.6 45
STRIP LeftWall_917 11 11 29.6 0.4 0 223.2 45
STRIP LeftWall_917 11 11 30 0.4 0 226.8 45
STRIP LeftWall_917 11 11 30.4 0.4 0 230.4 45
STRIP LeftWall_917 11 11 30.8 0.4 0 234 45
STRIP LeftWall_917 11 11 31.2 0.4 0 237.6 45
STRIP LeftWall_917 11 11 31.6 0.4 0 241.2 45
STRIP LeftWall_917 11 11 32 0.4 0 244.8 45
STRIP LeftWall_917 11 11 32.4 0.4 0 248.4 45
STRIP LeftWall_917 11 11 32.8 0.4 0 252 45
STRIP LeftWall_917 11 11 33.2 0.4 0 255.6 45
STRIP LeftWall_917 11 11 33.6 0.4 0 259.2 45
STRIP LeftWall_917 11 11 34 0.4 0 262.8 45
STRIP LeftWall_917 11 11 34.4 0.4 0 266.4 45

* 7: Defining Steps

STEP Stepn.0Condizioniiiniziali_924

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

```
CHANGE Coltredeiritica_2_905_L_0 U-FRICT=30 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-FRICT=30 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KA=0.333 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KP=4.288 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KA=0.333 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KP=4.288 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KP=5.879 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KP=5.879 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-COHE=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-ADHES=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-COHE=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-ADHES=0 LeftWall_917
SETWALL LeftWall_917
GEOM 0 0
SURCHARGE 0 0 0 0
WATER -30 0 -13 0 0
ADD LeftWallElement_1092
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.1Fasediscavol-Fase1_935
SETWALL LeftWall_917
GEOM 0 -3.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.2Fasediscavol-Fase2_953
SETWALL LeftWall_917
GEOM 0 -3.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -13 0 0
ADD Tirantiesistenti+587.00_965
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.3Fasediscavo2-Fase1_973
SETWALL LeftWall_917
GEOM 0 -6.25
SURCHARGE 0 0 0 -6.25
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.4Fasediscavo2-Fase2_991
SETWALL LeftWall_917
GEOM 0 -6.25
SURCHARGE 0 0 0 -6.25
WATER -30 0 -13 0 0
ADD Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.5Fasefinalisediscavoes_1011
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.6Primotirantenuovo_1029
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
ADD TirantinuoviT3_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.7Secondotirantenuovo_1049
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
ADD TirantinuoviT1_3735
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:




```
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage8Rilasciotirantiesist_3737
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
REMOVE Tirantiesistenti+587.00_965 Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage9Scavodiprogetto_17297
SETWALL LeftWall_917
GEOM 0 -10.5
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage10Sisma_5719
SETWALL LeftWall_917
GEOM 0 -10.5
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP
```

10.3 Design Assumption : NTC2018: A1+M1+R1 (R3 per tiranti) - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: NTC2018: A1+M1+R1 (R3 per tiranti)
* Time:mercoledì 14 dicembre 2022 10:28:14
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_917 0 -13 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_917 -13 0 1 0
SOIL 0_R LeftWall_917 -13 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Coltredetritica_2_905_L_0)
*
LDATA Coltredetritica_2_905_L_0 30 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 18 10 10
PERMEABILITY 1E-05
RESISTANCE 0 30 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 30000 48000
ENDL
*
* Soil Profile (Marnaarenacea_8_906_L_0)
*
LDATA Marnaarenacea_8_906_L_0 -3 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 21 13 10
PERMEABILITY 0.0001
RESISTANCE 100 35 0 0 0
TZDATA LINEAR 20000 0 30 0.5 0
KSCALE 0 0
YOUNG 1E+06 1.6E+06
ENDL

* 5: Defining structural materials
* Rebar material: 54 Name=Strands 270 ksi E=200100000 kPa
MATERIAL Strands270ksi_54 2.001E+08
* Concrete material: 1093 Name=C20/25 E=29962000 kPa
MATERIAL C2025_1093 2.9962E+07
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

* Steel material: 43 Name=Fe510 E=206000200 kPa
MATERIAL Fe510_43 2.06E+08

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later

BEAM LeftWallElement_1092 LeftWall_917 -13 0 Fe510_43 0.080792 0.018495 4.3946E-05 1.4241 00 00 0

* 6.2: Supports

WIRE Tirantiesistenti+587.00_965 LeftWall_917 -3 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+584.00_1003 LeftWall_917 -6 Strands270ksi_54 1.9841E-05 62.5 15 0 0
WIRE TirantinuoviT3_3643 LeftWall_917 -8 Strands270ksi_54 1.9501E-05 62.5 15 0 0
WIRE TirantinuoviT1_3735 LeftWall_917 -1 Strands270ksi_54 1.611E-05 62.5 15 0 0

* 6.3: Strips

* (slope contribution)

STRIP LeftWall_917 1 1 4.8 0.4 0 0.45 45
STRIP LeftWall_917 1 1 5.2 0.4 0 3.6 45
STRIP LeftWall_917 1 1 5.6 0.4 0 7.2 45
STRIP LeftWall_917 1 1 6 0.4 0 10.8 45
STRIP LeftWall_917 1 1 6.4 0.4 0 14.4 45
STRIP LeftWall_917 1 1 6.8 0.4 0 18 45
STRIP LeftWall_917 1 1 7.2 0.4 0 21.6 45
STRIP LeftWall_917 1 1 7.6 0.4 0 25.2 45
STRIP LeftWall_917 1 1 8 0.4 0 28.8 45
STRIP LeftWall_917 1 1 8.4 0.4 0 32.4 45
STRIP LeftWall_917 1 1 8.8 0.4 0 36 45
STRIP LeftWall_917 1 1 9.2 0.4 0 39.6 45
STRIP LeftWall_917 1 1 9.6 0.4 0 43.2 45
STRIP LeftWall_917 1 1 10 0.4 0 46.8 45
STRIP LeftWall_917 1 1 10.4 0.4 0 50.4 45
STRIP LeftWall_917 1 1 10.8 0.4 0 54 45
STRIP LeftWall_917 1 1 11.2 0.4 0 57.6 45
STRIP LeftWall_917 1 1 11.6 0.4 0 61.2 45
STRIP LeftWall_917 1 1 12 0.4 0 64.8 45
STRIP LeftWall_917 1 1 12.4 0.4 0 68.4 45
STRIP LeftWall_917 1 1 12.8 0.4 0 72 45
STRIP LeftWall_917 1 1 13.2 0.4 0 75.6 45
STRIP LeftWall_917 1 1 13.6 0.4 0 79.2 45
STRIP LeftWall_917 1 1 14 0.4 0 82.8 45
STRIP LeftWall_917 1 1 14.4 0.4 0 86.4 45
STRIP LeftWall_917 1 1 14.8 0.4 0 90 45
STRIP LeftWall_917 1 1 15.2 0.4 0 93.6 45
STRIP LeftWall_917 1 1 15.6 0.4 0 97.2 45
STRIP LeftWall_917 1 1 16 0.4 0 100.8 45
STRIP LeftWall_917 1 1 16.4 0.4 0 104.4 45
STRIP LeftWall_917 1 1 16.8 0.4 0 108 45
STRIP LeftWall_917 1 1 17.2 0.4 0 111.6 45
STRIP LeftWall_917 1 1 17.6 0.4 0 115.2 45
STRIP LeftWall_917 1 1 18 0.4 0 118.8 45
STRIP LeftWall_917 1 1 18.4 0.4 0 122.4 45
STRIP LeftWall_917 1 1 18.8 0.4 0 126 45
STRIP LeftWall_917 1 1 19.2 0.4 0 129.6 45
STRIP LeftWall_917 1 1 19.6 0.4 0 133.2 45
STRIP LeftWall_917 1 1 20 0.4 0 136.8 45
STRIP LeftWall_917 1 1 20.4 0.4 0 140.4 45
STRIP LeftWall_917 1 1 20.8 0.4 0 144 45
STRIP LeftWall_917 1 1 21.2 0.4 0 147.6 45
STRIP LeftWall_917 1 1 21.6 0.4 0 151.2 45
STRIP LeftWall_917 1 1 22 0.4 0 154.8 45
STRIP LeftWall_917 1 1 22.4 0.4 0 158.4 45
STRIP LeftWall_917 1 1 22.8 0.4 0 162 45
STRIP LeftWall_917 1 1 23.2 0.4 0 165.6 45
STRIP LeftWall_917 1 1 23.6 0.4 0 169.2 45
STRIP LeftWall_917 1 1 24 0.4 0 172.8 45
STRIP LeftWall_917 1 1 24.4 0.4 0 176.4 45
STRIP LeftWall_917 1 1 24.8 0.4 0 180 45
STRIP LeftWall_917 1 1 25.2 0.4 0 183.6 45
STRIP LeftWall_917 1 1 25.6 0.4 0 187.2 45
STRIP LeftWall_917 1 1 26 0.4 0 190.8 45
STRIP LeftWall_917 1 1 26.4 0.4 0 194.4 45
STRIP LeftWall_917 1 1 26.8 0.4 0 198 45
STRIP LeftWall_917 1 1 27.2 0.4 0 201.6 45
STRIP LeftWall_917 1 1 27.6 0.4 0 205.2 45
STRIP LeftWall_917 1 1 28 0.4 0 208.8 45
STRIP LeftWall_917 1 1 28.4 0.4 0 212.4 45
STRIP LeftWall_917 1 1 28.8 0.4 0 216 45
STRIP LeftWall_917 1 1 29.2 0.4 0 219.6 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 1 1 29.6 0.4 0 223.2 45
STRIP LeftWall_917 1 1 30 0.4 0 226.8 45
STRIP LeftWall_917 1 1 30.4 0.4 0 230.4 45
STRIP LeftWall_917 1 1 30.8 0.4 0 234 45
STRIP LeftWall_917 1 1 31.2 0.4 0 237.6 45
STRIP LeftWall_917 1 1 31.6 0.4 0 241.2 45
STRIP LeftWall_917 1 1 32 0.4 0 244.8 45
STRIP LeftWall_917 1 1 32.4 0.4 0 248.4 45
STRIP LeftWall_917 1 1 32.8 0.4 0 252 45
STRIP LeftWall_917 1 1 33.2 0.4 0 255.6 45
STRIP LeftWall_917 1 1 33.6 0.4 0 259.2 45
STRIP LeftWall_917 1 1 34 0.4 0 262.8 45
STRIP LeftWall_917 1 1 34.4 0.4 0 266.4 45
STRIP LeftWall_917 2 2 4.8 0.4 0 0.45 45
STRIP LeftWall_917 2 2 5.2 0.4 0 3.6 45
STRIP LeftWall_917 2 2 5.6 0.4 0 7.2 45
STRIP LeftWall_917 2 2 6 0.4 0 10.8 45
STRIP LeftWall_917 2 2 6.4 0.4 0 14.4 45
STRIP LeftWall_917 2 2 6.8 0.4 0 18 45
STRIP LeftWall_917 2 2 7.2 0.4 0 21.6 45
STRIP LeftWall_917 2 2 7.6 0.4 0 25.2 45
STRIP LeftWall_917 2 2 8 0.4 0 28.8 45
STRIP LeftWall_917 2 2 8.4 0.4 0 32.4 45
STRIP LeftWall_917 2 2 8.8 0.4 0 36 45
STRIP LeftWall_917 2 2 9.2 0.4 0 39.6 45
STRIP LeftWall_917 2 2 9.6 0.4 0 43.2 45
STRIP LeftWall_917 2 2 10 0.4 0 46.8 45
STRIP LeftWall_917 2 2 10.4 0.4 0 50.4 45
STRIP LeftWall_917 2 2 10.8 0.4 0 54 45
STRIP LeftWall_917 2 2 11.2 0.4 0 57.6 45
STRIP LeftWall_917 2 2 11.6 0.4 0 61.2 45
STRIP LeftWall_917 2 2 12 0.4 0 64.8 45
STRIP LeftWall_917 2 2 12.4 0.4 0 68.4 45
STRIP LeftWall_917 2 2 12.8 0.4 0 72 45
STRIP LeftWall_917 2 2 13.2 0.4 0 75.6 45
STRIP LeftWall_917 2 2 13.6 0.4 0 79.2 45
STRIP LeftWall_917 2 2 14 0.4 0 82.8 45
STRIP LeftWall_917 2 2 14.4 0.4 0 86.4 45
STRIP LeftWall_917 2 2 14.8 0.4 0 90 45
STRIP LeftWall_917 2 2 15.2 0.4 0 93.6 45
STRIP LeftWall_917 2 2 15.6 0.4 0 97.2 45
STRIP LeftWall_917 2 2 16 0.4 0 100.8 45
STRIP LeftWall_917 2 2 16.4 0.4 0 104.4 45
STRIP LeftWall_917 2 2 16.8 0.4 0 108 45
STRIP LeftWall_917 2 2 17.2 0.4 0 111.6 45
STRIP LeftWall_917 2 2 17.6 0.4 0 115.2 45
STRIP LeftWall_917 2 2 18 0.4 0 118.8 45
STRIP LeftWall_917 2 2 18.4 0.4 0 122.4 45
STRIP LeftWall_917 2 2 18.8 0.4 0 126 45
STRIP LeftWall_917 2 2 19.2 0.4 0 129.6 45
STRIP LeftWall_917 2 2 19.6 0.4 0 133.2 45
STRIP LeftWall_917 2 2 20 0.4 0 136.8 45
STRIP LeftWall_917 2 2 20.4 0.4 0 140.4 45
STRIP LeftWall_917 2 2 20.8 0.4 0 144 45
STRIP LeftWall_917 2 2 21.2 0.4 0 147.6 45
STRIP LeftWall_917 2 2 21.6 0.4 0 151.2 45
STRIP LeftWall_917 2 2 22 0.4 0 154.8 45
STRIP LeftWall_917 2 2 22.4 0.4 0 158.4 45
STRIP LeftWall_917 2 2 22.8 0.4 0 162 45
STRIP LeftWall_917 2 2 23.2 0.4 0 165.6 45
STRIP LeftWall_917 2 2 23.6 0.4 0 169.2 45
STRIP LeftWall_917 2 2 24 0.4 0 172.8 45
STRIP LeftWall_917 2 2 24.4 0.4 0 176.4 45
STRIP LeftWall_917 2 2 24.8 0.4 0 180 45
STRIP LeftWall_917 2 2 25.2 0.4 0 183.6 45
STRIP LeftWall_917 2 2 25.6 0.4 0 187.2 45
STRIP LeftWall_917 2 2 26 0.4 0 190.8 45
STRIP LeftWall_917 2 2 26.4 0.4 0 194.4 45
STRIP LeftWall_917 2 2 26.8 0.4 0 198 45
STRIP LeftWall_917 2 2 27.2 0.4 0 201.6 45
STRIP LeftWall_917 2 2 27.6 0.4 0 205.2 45
STRIP LeftWall_917 2 2 28 0.4 0 208.8 45
STRIP LeftWall_917 2 2 28.4 0.4 0 212.4 45
STRIP LeftWall_917 2 2 28.8 0.4 0 216 45
STRIP LeftWall_917 2 2 29.2 0.4 0 219.6 45
STRIP LeftWall_917 2 2 29.6 0.4 0 223.2 45
STRIP LeftWall_917 2 2 30 0.4 0 226.8 45
STRIP LeftWall_917 2 2 30.4 0.4 0 230.4 45
STRIP LeftWall_917 2 2 30.8 0.4 0 234 45
STRIP LeftWall_917 2 2 31.2 0.4 0 237.6 45
STRIP LeftWall_917 2 2 31.6 0.4 0 241.2 45
STRIP LeftWall_917 2 2 32 0.4 0 244.8 45
STRIP LeftWall_917 2 2 32.4 0.4 0 248.4 45
STRIP LeftWall_917 2 2 32.8 0.4 0 252 45
STRIP LeftWall_917 2 2 33.2 0.4 0 255.6 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 2 2 33.6 0.4 0 259.2 45
STRIP LeftWall_917 2 2 34 0.4 0 262.8 45
STRIP LeftWall_917 2 2 34.4 0.4 0 266.4 45
STRIP LeftWall_917 3 3 4.8 0.4 0 0.45 45
STRIP LeftWall_917 3 3 5.2 0.4 0 3.6 45
STRIP LeftWall_917 3 3 5.6 0.4 0 7.2 45
STRIP LeftWall_917 3 3 6 0.4 0 10.8 45
STRIP LeftWall_917 3 3 6.4 0.4 0 14.4 45
STRIP LeftWall_917 3 3 6.8 0.4 0 18 45
STRIP LeftWall_917 3 3 7.2 0.4 0 21.6 45
STRIP LeftWall_917 3 3 7.6 0.4 0 25.2 45
STRIP LeftWall_917 3 3 8 0.4 0 28.8 45
STRIP LeftWall_917 3 3 8.4 0.4 0 32.4 45
STRIP LeftWall_917 3 3 8.8 0.4 0 36 45
STRIP LeftWall_917 3 3 9.2 0.4 0 39.6 45
STRIP LeftWall_917 3 3 9.6 0.4 0 43.2 45
STRIP LeftWall_917 3 3 10 0.4 0 46.8 45
STRIP LeftWall_917 3 3 10.4 0.4 0 50.4 45
STRIP LeftWall_917 3 3 10.8 0.4 0 54 45
STRIP LeftWall_917 3 3 11.2 0.4 0 57.6 45
STRIP LeftWall_917 3 3 11.6 0.4 0 61.2 45
STRIP LeftWall_917 3 3 12 0.4 0 64.8 45
STRIP LeftWall_917 3 3 12.4 0.4 0 68.4 45
STRIP LeftWall_917 3 3 12.8 0.4 0 72 45
STRIP LeftWall_917 3 3 13.2 0.4 0 75.6 45
STRIP LeftWall_917 3 3 13.6 0.4 0 79.2 45
STRIP LeftWall_917 3 3 14 0.4 0 82.8 45
STRIP LeftWall_917 3 3 14.4 0.4 0 86.4 45
STRIP LeftWall_917 3 3 14.8 0.4 0 90 45
STRIP LeftWall_917 3 3 15.2 0.4 0 93.6 45
STRIP LeftWall_917 3 3 15.6 0.4 0 97.2 45
STRIP LeftWall_917 3 3 16 0.4 0 100.8 45
STRIP LeftWall_917 3 3 16.4 0.4 0 104.4 45
STRIP LeftWall_917 3 3 16.8 0.4 0 108 45
STRIP LeftWall_917 3 3 17.2 0.4 0 111.6 45
STRIP LeftWall_917 3 3 17.6 0.4 0 115.2 45
STRIP LeftWall_917 3 3 18 0.4 0 118.8 45
STRIP LeftWall_917 3 3 18.4 0.4 0 122.4 45
STRIP LeftWall_917 3 3 18.8 0.4 0 126 45
STRIP LeftWall_917 3 3 19.2 0.4 0 129.6 45
STRIP LeftWall_917 3 3 19.6 0.4 0 133.2 45
STRIP LeftWall_917 3 3 20 0.4 0 136.8 45
STRIP LeftWall_917 3 3 20.4 0.4 0 140.4 45
STRIP LeftWall_917 3 3 20.8 0.4 0 144 45
STRIP LeftWall_917 3 3 21.2 0.4 0 147.6 45
STRIP LeftWall_917 3 3 21.6 0.4 0 151.2 45
STRIP LeftWall_917 3 3 22 0.4 0 154.8 45
STRIP LeftWall_917 3 3 22.4 0.4 0 158.4 45
STRIP LeftWall_917 3 3 22.8 0.4 0 162 45
STRIP LeftWall_917 3 3 23.2 0.4 0 165.6 45
STRIP LeftWall_917 3 3 23.6 0.4 0 169.2 45
STRIP LeftWall_917 3 3 24 0.4 0 172.8 45
STRIP LeftWall_917 3 3 24.4 0.4 0 176.4 45
STRIP LeftWall_917 3 3 24.8 0.4 0 180 45
STRIP LeftWall_917 3 3 25.2 0.4 0 183.6 45
STRIP LeftWall_917 3 3 25.6 0.4 0 187.2 45
STRIP LeftWall_917 3 3 26 0.4 0 190.8 45
STRIP LeftWall_917 3 3 26.4 0.4 0 194.4 45
STRIP LeftWall_917 3 3 26.8 0.4 0 198 45
STRIP LeftWall_917 3 3 27.2 0.4 0 201.6 45
STRIP LeftWall_917 3 3 27.6 0.4 0 205.2 45
STRIP LeftWall_917 3 3 28 0.4 0 208.8 45
STRIP LeftWall_917 3 3 28.4 0.4 0 212.4 45
STRIP LeftWall_917 3 3 28.8 0.4 0 216 45
STRIP LeftWall_917 3 3 29.2 0.4 0 219.6 45
STRIP LeftWall_917 3 3 29.6 0.4 0 223.2 45
STRIP LeftWall_917 3 3 30 0.4 0 226.8 45
STRIP LeftWall_917 3 3 30.4 0.4 0 230.4 45
STRIP LeftWall_917 3 3 30.8 0.4 0 234 45
STRIP LeftWall_917 3 3 31.2 0.4 0 237.6 45
STRIP LeftWall_917 3 3 31.6 0.4 0 241.2 45
STRIP LeftWall_917 3 3 32 0.4 0 244.8 45
STRIP LeftWall_917 3 3 32.4 0.4 0 248.4 45
STRIP LeftWall_917 3 3 32.8 0.4 0 252 45
STRIP LeftWall_917 3 3 33.2 0.4 0 255.6 45
STRIP LeftWall_917 3 3 33.6 0.4 0 259.2 45
STRIP LeftWall_917 3 3 34 0.4 0 262.8 45
STRIP LeftWall_917 3 3 34.4 0.4 0 266.4 45
STRIP LeftWall_917 4 4 4.8 0.4 0 0.45 45
STRIP LeftWall_917 4 4 5.2 0.4 0 3.6 45
STRIP LeftWall_917 4 4 5.6 0.4 0 7.2 45
STRIP LeftWall_917 4 4 6 0.4 0 10.8 45
STRIP LeftWall_917 4 4 6.4 0.4 0 14.4 45
STRIP LeftWall_917 4 4 6.8 0.4 0 18 45
STRIP LeftWall_917 4 4 7.2 0.4 0 21.6 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	4	4	7.6	0.4	0	25.2	45
STRIP LeftWall_917	4	4	8	0.4	0	28.8	45
STRIP LeftWall_917	4	4	8.4	0.4	0	32.4	45
STRIP LeftWall_917	4	4	8.8	0.4	0	36	45
STRIP LeftWall_917	4	4	9.2	0.4	0	39.6	45
STRIP LeftWall_917	4	4	9.6	0.4	0	43.2	45
STRIP LeftWall_917	4	4	10	0.4	0	46.8	45
STRIP LeftWall_917	4	4	10.4	0.4	0	50.4	45
STRIP LeftWall_917	4	4	10.8	0.4	0	54	45
STRIP LeftWall_917	4	4	11.2	0.4	0	57.6	45
STRIP LeftWall_917	4	4	11.6	0.4	0	61.2	45
STRIP LeftWall_917	4	4	12	0.4	0	64.8	45
STRIP LeftWall_917	4	4	12.4	0.4	0	68.4	45
STRIP LeftWall_917	4	4	12.8	0.4	0	72	45
STRIP LeftWall_917	4	4	13.2	0.4	0	75.6	45
STRIP LeftWall_917	4	4	13.6	0.4	0	79.2	45
STRIP LeftWall_917	4	4	14	0.4	0	82.8	45
STRIP LeftWall_917	4	4	14.4	0.4	0	86.4	45
STRIP LeftWall_917	4	4	14.8	0.4	0	90	45
STRIP LeftWall_917	4	4	15.2	0.4	0	93.6	45
STRIP LeftWall_917	4	4	15.6	0.4	0	97.2	45
STRIP LeftWall_917	4	4	16	0.4	0	100.8	45
STRIP LeftWall_917	4	4	16.4	0.4	0	104.4	45
STRIP LeftWall_917	4	4	16.8	0.4	0	108	45
STRIP LeftWall_917	4	4	17.2	0.4	0	111.6	45
STRIP LeftWall_917	4	4	17.6	0.4	0	115.2	45
STRIP LeftWall_917	4	4	18	0.4	0	118.8	45
STRIP LeftWall_917	4	4	18.4	0.4	0	122.4	45
STRIP LeftWall_917	4	4	18.8	0.4	0	126	45
STRIP LeftWall_917	4	4	19.2	0.4	0	129.6	45
STRIP LeftWall_917	4	4	19.6	0.4	0	133.2	45
STRIP LeftWall_917	4	4	20	0.4	0	136.8	45
STRIP LeftWall_917	4	4	20.4	0.4	0	140.4	45
STRIP LeftWall_917	4	4	20.8	0.4	0	144	45
STRIP LeftWall_917	4	4	21.2	0.4	0	147.6	45
STRIP LeftWall_917	4	4	21.6	0.4	0	151.2	45
STRIP LeftWall_917	4	4	22	0.4	0	154.8	45
STRIP LeftWall_917	4	4	22.4	0.4	0	158.4	45
STRIP LeftWall_917	4	4	22.8	0.4	0	162	45
STRIP LeftWall_917	4	4	23.2	0.4	0	165.6	45
STRIP LeftWall_917	4	4	23.6	0.4	0	169.2	45
STRIP LeftWall_917	4	4	24	0.4	0	172.8	45
STRIP LeftWall_917	4	4	24.4	0.4	0	176.4	45
STRIP LeftWall_917	4	4	24.8	0.4	0	180	45
STRIP LeftWall_917	4	4	25.2	0.4	0	183.6	45
STRIP LeftWall_917	4	4	25.6	0.4	0	187.2	45
STRIP LeftWall_917	4	4	26	0.4	0	190.8	45
STRIP LeftWall_917	4	4	26.4	0.4	0	194.4	45
STRIP LeftWall_917	4	4	26.8	0.4	0	198	45
STRIP LeftWall_917	4	4	27.2	0.4	0	201.6	45
STRIP LeftWall_917	4	4	27.6	0.4	0	205.2	45
STRIP LeftWall_917	4	4	28	0.4	0	208.8	45
STRIP LeftWall_917	4	4	28.4	0.4	0	212.4	45
STRIP LeftWall_917	4	4	28.8	0.4	0	216	45
STRIP LeftWall_917	4	4	29.2	0.4	0	219.6	45
STRIP LeftWall_917	4	4	29.6	0.4	0	223.2	45
STRIP LeftWall_917	4	4	30	0.4	0	226.8	45
STRIP LeftWall_917	4	4	30.4	0.4	0	230.4	45
STRIP LeftWall_917	4	4	30.8	0.4	0	234	45
STRIP LeftWall_917	4	4	31.2	0.4	0	237.6	45
STRIP LeftWall_917	4	4	31.6	0.4	0	241.2	45
STRIP LeftWall_917	4	4	32	0.4	0	244.8	45
STRIP LeftWall_917	4	4	32.4	0.4	0	248.4	45
STRIP LeftWall_917	4	4	32.8	0.4	0	252	45
STRIP LeftWall_917	4	4	33.2	0.4	0	255.6	45
STRIP LeftWall_917	4	4	33.6	0.4	0	259.2	45
STRIP LeftWall_917	4	4	34	0.4	0	262.8	45
STRIP LeftWall_917	4	4	34.4	0.4	0	266.4	45
STRIP LeftWall_917	5	5	4.8	0.4	0	0.45	45
STRIP LeftWall_917	5	5	5.2	0.4	0	3.6	45
STRIP LeftWall_917	5	5	5.6	0.4	0	7.2	45
STRIP LeftWall_917	5	5	6	0.4	0	10.8	45
STRIP LeftWall_917	5	5	6.4	0.4	0	14.4	45
STRIP LeftWall_917	5	5	6.8	0.4	0	18	45
STRIP LeftWall_917	5	5	7.2	0.4	0	21.6	45
STRIP LeftWall_917	5	5	7.6	0.4	0	25.2	45
STRIP LeftWall_917	5	5	8	0.4	0	28.8	45
STRIP LeftWall_917	5	5	8.4	0.4	0	32.4	45
STRIP LeftWall_917	5	5	8.8	0.4	0	36	45
STRIP LeftWall_917	5	5	9.2	0.4	0	39.6	45
STRIP LeftWall_917	5	5	9.6	0.4	0	43.2	45
STRIP LeftWall_917	5	5	10	0.4	0	46.8	45
STRIP LeftWall_917	5	5	10.4	0.4	0	50.4	45
STRIP LeftWall_917	5	5	10.8	0.4	0	54	45
STRIP LeftWall_917	5	5	11.2	0.4	0	57.6	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 5 5 11.6 0.4 0 61.2 45
STRIP LeftWall_917 5 5 12 0.4 0 64.8 45
STRIP LeftWall_917 5 5 12.4 0.4 0 68.4 45
STRIP LeftWall_917 5 5 12.8 0.4 0 72 45
STRIP LeftWall_917 5 5 13.2 0.4 0 75.6 45
STRIP LeftWall_917 5 5 13.6 0.4 0 79.2 45
STRIP LeftWall_917 5 5 14 0.4 0 82.8 45
STRIP LeftWall_917 5 5 14.4 0.4 0 86.4 45
STRIP LeftWall_917 5 5 14.8 0.4 0 90 45
STRIP LeftWall_917 5 5 15.2 0.4 0 93.6 45
STRIP LeftWall_917 5 5 15.6 0.4 0 97.2 45
STRIP LeftWall_917 5 5 16 0.4 0 100.8 45
STRIP LeftWall_917 5 5 16.4 0.4 0 104.4 45
STRIP LeftWall_917 5 5 16.8 0.4 0 108 45
STRIP LeftWall_917 5 5 17.2 0.4 0 111.6 45
STRIP LeftWall_917 5 5 17.6 0.4 0 115.2 45
STRIP LeftWall_917 5 5 18 0.4 0 118.8 45
STRIP LeftWall_917 5 5 18.4 0.4 0 122.4 45
STRIP LeftWall_917 5 5 18.8 0.4 0 126 45
STRIP LeftWall_917 5 5 19.2 0.4 0 129.6 45
STRIP LeftWall_917 5 5 19.6 0.4 0 133.2 45
STRIP LeftWall_917 5 5 20 0.4 0 136.8 45
STRIP LeftWall_917 5 5 20.4 0.4 0 140.4 45
STRIP LeftWall_917 5 5 20.8 0.4 0 144 45
STRIP LeftWall_917 5 5 21.2 0.4 0 147.6 45
STRIP LeftWall_917 5 5 21.6 0.4 0 151.2 45
STRIP LeftWall_917 5 5 22 0.4 0 154.8 45
STRIP LeftWall_917 5 5 22.4 0.4 0 158.4 45
STRIP LeftWall_917 5 5 22.8 0.4 0 162 45
STRIP LeftWall_917 5 5 23.2 0.4 0 165.6 45
STRIP LeftWall_917 5 5 23.6 0.4 0 169.2 45
STRIP LeftWall_917 5 5 24 0.4 0 172.8 45
STRIP LeftWall_917 5 5 24.4 0.4 0 176.4 45
STRIP LeftWall_917 5 5 24.8 0.4 0 180 45
STRIP LeftWall_917 5 5 25.2 0.4 0 183.6 45
STRIP LeftWall_917 5 5 25.6 0.4 0 187.2 45
STRIP LeftWall_917 5 5 26 0.4 0 190.8 45
STRIP LeftWall_917 5 5 26.4 0.4 0 194.4 45
STRIP LeftWall_917 5 5 26.8 0.4 0 198 45
STRIP LeftWall_917 5 5 27.2 0.4 0 201.6 45
STRIP LeftWall_917 5 5 27.6 0.4 0 205.2 45
STRIP LeftWall_917 5 5 28 0.4 0 208.8 45
STRIP LeftWall_917 5 5 28.4 0.4 0 212.4 45
STRIP LeftWall_917 5 5 28.8 0.4 0 216 45
STRIP LeftWall_917 5 5 29.2 0.4 0 219.6 45
STRIP LeftWall_917 5 5 29.6 0.4 0 223.2 45
STRIP LeftWall_917 5 5 30 0.4 0 226.8 45
STRIP LeftWall_917 5 5 30.4 0.4 0 230.4 45
STRIP LeftWall_917 5 5 30.8 0.4 0 234 45
STRIP LeftWall_917 5 5 31.2 0.4 0 237.6 45
STRIP LeftWall_917 5 5 31.6 0.4 0 241.2 45
STRIP LeftWall_917 5 5 32 0.4 0 244.8 45
STRIP LeftWall_917 5 5 32.4 0.4 0 248.4 45
STRIP LeftWall_917 5 5 32.8 0.4 0 252 45
STRIP LeftWall_917 5 5 33.2 0.4 0 255.6 45
STRIP LeftWall_917 5 5 33.6 0.4 0 259.2 45
STRIP LeftWall_917 5 5 34 0.4 0 262.8 45
STRIP LeftWall_917 5 5 34.4 0.4 0 266.4 45
STRIP LeftWall_917 6 6 4.8 0.4 0 0.45 45
STRIP LeftWall_917 6 6 5.2 0.4 0 3.6 45
STRIP LeftWall_917 6 6 5.6 0.4 0 7.2 45
STRIP LeftWall_917 6 6 6 0.4 0 10.8 45
STRIP LeftWall_917 6 6 6.4 0.4 0 14.4 45
STRIP LeftWall_917 6 6 6.8 0.4 0 18 45
STRIP LeftWall_917 6 6 7.2 0.4 0 21.6 45
STRIP LeftWall_917 6 6 7.6 0.4 0 25.2 45
STRIP LeftWall_917 6 6 8 0.4 0 28.8 45
STRIP LeftWall_917 6 6 8.4 0.4 0 32.4 45
STRIP LeftWall_917 6 6 8.8 0.4 0 36 45
STRIP LeftWall_917 6 6 9.2 0.4 0 39.6 45
STRIP LeftWall_917 6 6 9.6 0.4 0 43.2 45
STRIP LeftWall_917 6 6 10 0.4 0 46.8 45
STRIP LeftWall_917 6 6 10.4 0.4 0 50.4 45
STRIP LeftWall_917 6 6 10.8 0.4 0 54 45
STRIP LeftWall_917 6 6 11.2 0.4 0 57.6 45
STRIP LeftWall_917 6 6 11.6 0.4 0 61.2 45
STRIP LeftWall_917 6 6 12 0.4 0 64.8 45
STRIP LeftWall_917 6 6 12.4 0.4 0 68.4 45
STRIP LeftWall_917 6 6 12.8 0.4 0 72 45
STRIP LeftWall_917 6 6 13.2 0.4 0 75.6 45
STRIP LeftWall_917 6 6 13.6 0.4 0 79.2 45
STRIP LeftWall_917 6 6 14 0.4 0 82.8 45
STRIP LeftWall_917 6 6 14.4 0.4 0 86.4 45
STRIP LeftWall_917 6 6 14.8 0.4 0 90 45
STRIP LeftWall_917 6 6 15.2 0.4 0 93.6 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	6	6	15.6	0.4	0	97.2	45
STRIP LeftWall_917	6	6	16	0.4	0	100.8	45
STRIP LeftWall_917	6	6	16.4	0.4	0	104.4	45
STRIP LeftWall_917	6	6	16.8	0.4	0	108	45
STRIP LeftWall_917	6	6	17.2	0.4	0	111.6	45
STRIP LeftWall_917	6	6	17.6	0.4	0	115.2	45
STRIP LeftWall_917	6	6	18	0.4	0	118.8	45
STRIP LeftWall_917	6	6	18.4	0.4	0	122.4	45
STRIP LeftWall_917	6	6	18.8	0.4	0	126	45
STRIP LeftWall_917	6	6	19.2	0.4	0	129.6	45
STRIP LeftWall_917	6	6	19.6	0.4	0	133.2	45
STRIP LeftWall_917	6	6	20	0.4	0	136.8	45
STRIP LeftWall_917	6	6	20.4	0.4	0	140.4	45
STRIP LeftWall_917	6	6	20.8	0.4	0	144	45
STRIP LeftWall_917	6	6	21.2	0.4	0	147.6	45
STRIP LeftWall_917	6	6	21.6	0.4	0	151.2	45
STRIP LeftWall_917	6	6	22	0.4	0	154.8	45
STRIP LeftWall_917	6	6	22.4	0.4	0	158.4	45
STRIP LeftWall_917	6	6	22.8	0.4	0	162	45
STRIP LeftWall_917	6	6	23.2	0.4	0	165.6	45
STRIP LeftWall_917	6	6	23.6	0.4	0	169.2	45
STRIP LeftWall_917	6	6	24	0.4	0	172.8	45
STRIP LeftWall_917	6	6	24.4	0.4	0	176.4	45
STRIP LeftWall_917	6	6	24.8	0.4	0	180	45
STRIP LeftWall_917	6	6	25.2	0.4	0	183.6	45
STRIP LeftWall_917	6	6	25.6	0.4	0	187.2	45
STRIP LeftWall_917	6	6	26	0.4	0	190.8	45
STRIP LeftWall_917	6	6	26.4	0.4	0	194.4	45
STRIP LeftWall_917	6	6	26.8	0.4	0	198	45
STRIP LeftWall_917	6	6	27.2	0.4	0	201.6	45
STRIP LeftWall_917	6	6	27.6	0.4	0	205.2	45
STRIP LeftWall_917	6	6	28	0.4	0	208.8	45
STRIP LeftWall_917	6	6	28.4	0.4	0	212.4	45
STRIP LeftWall_917	6	6	28.8	0.4	0	216	45
STRIP LeftWall_917	6	6	29.2	0.4	0	219.6	45
STRIP LeftWall_917	6	6	29.6	0.4	0	223.2	45
STRIP LeftWall_917	6	6	30	0.4	0	226.8	45
STRIP LeftWall_917	6	6	30.4	0.4	0	230.4	45
STRIP LeftWall_917	6	6	30.8	0.4	0	234	45
STRIP LeftWall_917	6	6	31.2	0.4	0	237.6	45
STRIP LeftWall_917	6	6	31.6	0.4	0	241.2	45
STRIP LeftWall_917	6	6	32	0.4	0	244.8	45
STRIP LeftWall_917	6	6	32.4	0.4	0	248.4	45
STRIP LeftWall_917	6	6	32.8	0.4	0	252	45
STRIP LeftWall_917	6	6	33.2	0.4	0	255.6	45
STRIP LeftWall_917	6	6	33.6	0.4	0	259.2	45
STRIP LeftWall_917	6	6	34	0.4	0	262.8	45
STRIP LeftWall_917	6	6	34.4	0.4	0	266.4	45
STRIP LeftWall_917	7	7	4.8	0.4	0	0.45	45
STRIP LeftWall_917	7	7	5.2	0.4	0	3.6	45
STRIP LeftWall_917	7	7	5.6	0.4	0	7.2	45
STRIP LeftWall_917	7	7	6	0.4	0	10.8	45
STRIP LeftWall_917	7	7	6.4	0.4	0	14.4	45
STRIP LeftWall_917	7	7	6.8	0.4	0	18	45
STRIP LeftWall_917	7	7	7.2	0.4	0	21.6	45
STRIP LeftWall_917	7	7	7.6	0.4	0	25.2	45
STRIP LeftWall_917	7	7	8	0.4	0	28.8	45
STRIP LeftWall_917	7	7	8.4	0.4	0	32.4	45
STRIP LeftWall_917	7	7	8.8	0.4	0	36	45
STRIP LeftWall_917	7	7	9.2	0.4	0	39.6	45
STRIP LeftWall_917	7	7	9.6	0.4	0	43.2	45
STRIP LeftWall_917	7	7	10	0.4	0	46.8	45
STRIP LeftWall_917	7	7	10.4	0.4	0	50.4	45
STRIP LeftWall_917	7	7	10.8	0.4	0	54	45
STRIP LeftWall_917	7	7	11.2	0.4	0	57.6	45
STRIP LeftWall_917	7	7	11.6	0.4	0	61.2	45
STRIP LeftWall_917	7	7	12	0.4	0	64.8	45
STRIP LeftWall_917	7	7	12.4	0.4	0	68.4	45
STRIP LeftWall_917	7	7	12.8	0.4	0	72	45
STRIP LeftWall_917	7	7	13.2	0.4	0	75.6	45
STRIP LeftWall_917	7	7	13.6	0.4	0	79.2	45
STRIP LeftWall_917	7	7	14	0.4	0	82.8	45
STRIP LeftWall_917	7	7	14.4	0.4	0	86.4	45
STRIP LeftWall_917	7	7	14.8	0.4	0	90	45
STRIP LeftWall_917	7	7	15.2	0.4	0	93.6	45
STRIP LeftWall_917	7	7	15.6	0.4	0	97.2	45
STRIP LeftWall_917	7	7	16	0.4	0	100.8	45
STRIP LeftWall_917	7	7	16.4	0.4	0	104.4	45
STRIP LeftWall_917	7	7	16.8	0.4	0	108	45
STRIP LeftWall_917	7	7	17.2	0.4	0	111.6	45
STRIP LeftWall_917	7	7	17.6	0.4	0	115.2	45
STRIP LeftWall_917	7	7	18	0.4	0	118.8	45
STRIP LeftWall_917	7	7	18.4	0.4	0	122.4	45
STRIP LeftWall_917	7	7	18.8	0.4	0	126	45
STRIP LeftWall_917	7	7	19.2	0.4	0	129.6	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 7 7 19.6 0.4 0 133.2 45
STRIP LeftWall_917 7 7 20 0.4 0 136.8 45
STRIP LeftWall_917 7 7 20.4 0.4 0 140.4 45
STRIP LeftWall_917 7 7 20.8 0.4 0 144 45
STRIP LeftWall_917 7 7 21.2 0.4 0 147.6 45
STRIP LeftWall_917 7 7 21.6 0.4 0 151.2 45
STRIP LeftWall_917 7 7 22 0.4 0 154.8 45
STRIP LeftWall_917 7 7 22.4 0.4 0 158.4 45
STRIP LeftWall_917 7 7 22.8 0.4 0 162 45
STRIP LeftWall_917 7 7 23.2 0.4 0 165.6 45
STRIP LeftWall_917 7 7 23.6 0.4 0 169.2 45
STRIP LeftWall_917 7 7 24 0.4 0 172.8 45
STRIP LeftWall_917 7 7 24.4 0.4 0 176.4 45
STRIP LeftWall_917 7 7 24.8 0.4 0 180 45
STRIP LeftWall_917 7 7 25.2 0.4 0 183.6 45
STRIP LeftWall_917 7 7 25.6 0.4 0 187.2 45
STRIP LeftWall_917 7 7 26 0.4 0 190.8 45
STRIP LeftWall_917 7 7 26.4 0.4 0 194.4 45
STRIP LeftWall_917 7 7 26.8 0.4 0 198 45
STRIP LeftWall_917 7 7 27.2 0.4 0 201.6 45
STRIP LeftWall_917 7 7 27.6 0.4 0 205.2 45
STRIP LeftWall_917 7 7 28 0.4 0 208.8 45
STRIP LeftWall_917 7 7 28.4 0.4 0 212.4 45
STRIP LeftWall_917 7 7 28.8 0.4 0 216 45
STRIP LeftWall_917 7 7 29.2 0.4 0 219.6 45
STRIP LeftWall_917 7 7 29.6 0.4 0 223.2 45
STRIP LeftWall_917 7 7 30 0.4 0 226.8 45
STRIP LeftWall_917 7 7 30.4 0.4 0 230.4 45
STRIP LeftWall_917 7 7 30.8 0.4 0 234 45
STRIP LeftWall_917 7 7 31.2 0.4 0 237.6 45
STRIP LeftWall_917 7 7 31.6 0.4 0 241.2 45
STRIP LeftWall_917 7 7 32 0.4 0 244.8 45
STRIP LeftWall_917 7 7 32.4 0.4 0 248.4 45
STRIP LeftWall_917 7 7 32.8 0.4 0 252 45
STRIP LeftWall_917 7 7 33.2 0.4 0 255.6 45
STRIP LeftWall_917 7 7 33.6 0.4 0 259.2 45
STRIP LeftWall_917 7 7 34 0.4 0 262.8 45
STRIP LeftWall_917 7 7 34.4 0.4 0 266.4 45
STRIP LeftWall_917 8 8 4.8 0.4 0 0.45 45
STRIP LeftWall_917 8 8 5.2 0.4 0 3.6 45
STRIP LeftWall_917 8 8 5.6 0.4 0 7.2 45
STRIP LeftWall_917 8 8 6 0.4 0 10.8 45
STRIP LeftWall_917 8 8 6.4 0.4 0 14.4 45
STRIP LeftWall_917 8 8 6.8 0.4 0 18 45
STRIP LeftWall_917 8 8 7.2 0.4 0 21.6 45
STRIP LeftWall_917 8 8 7.6 0.4 0 25.2 45
STRIP LeftWall_917 8 8 8 0.4 0 28.8 45
STRIP LeftWall_917 8 8 8.4 0.4 0 32.4 45
STRIP LeftWall_917 8 8 8.8 0.4 0 36 45
STRIP LeftWall_917 8 8 9.2 0.4 0 39.6 45
STRIP LeftWall_917 8 8 9.6 0.4 0 43.2 45
STRIP LeftWall_917 8 8 10 0.4 0 46.8 45
STRIP LeftWall_917 8 8 10.4 0.4 0 50.4 45
STRIP LeftWall_917 8 8 10.8 0.4 0 54 45
STRIP LeftWall_917 8 8 11.2 0.4 0 57.6 45
STRIP LeftWall_917 8 8 11.6 0.4 0 61.2 45
STRIP LeftWall_917 8 8 12 0.4 0 64.8 45
STRIP LeftWall_917 8 8 12.4 0.4 0 68.4 45
STRIP LeftWall_917 8 8 12.8 0.4 0 72 45
STRIP LeftWall_917 8 8 13.2 0.4 0 75.6 45
STRIP LeftWall_917 8 8 13.6 0.4 0 79.2 45
STRIP LeftWall_917 8 8 14 0.4 0 82.8 45
STRIP LeftWall_917 8 8 14.4 0.4 0 86.4 45
STRIP LeftWall_917 8 8 14.8 0.4 0 90 45
STRIP LeftWall_917 8 8 15.2 0.4 0 93.6 45
STRIP LeftWall_917 8 8 15.6 0.4 0 97.2 45
STRIP LeftWall_917 8 8 16 0.4 0 100.8 45
STRIP LeftWall_917 8 8 16.4 0.4 0 104.4 45
STRIP LeftWall_917 8 8 16.8 0.4 0 108 45
STRIP LeftWall_917 8 8 17.2 0.4 0 111.6 45
STRIP LeftWall_917 8 8 17.6 0.4 0 115.2 45
STRIP LeftWall_917 8 8 18 0.4 0 118.8 45
STRIP LeftWall_917 8 8 18.4 0.4 0 122.4 45
STRIP LeftWall_917 8 8 18.8 0.4 0 126 45
STRIP LeftWall_917 8 8 19.2 0.4 0 129.6 45
STRIP LeftWall_917 8 8 19.6 0.4 0 133.2 45
STRIP LeftWall_917 8 8 20 0.4 0 136.8 45
STRIP LeftWall_917 8 8 20.4 0.4 0 140.4 45
STRIP LeftWall_917 8 8 20.8 0.4 0 144 45
STRIP LeftWall_917 8 8 21.2 0.4 0 147.6 45
STRIP LeftWall_917 8 8 21.6 0.4 0 151.2 45
STRIP LeftWall_917 8 8 22 0.4 0 154.8 45
STRIP LeftWall_917 8 8 22.4 0.4 0 158.4 45
STRIP LeftWall_917 8 8 22.8 0.4 0 162 45
STRIP LeftWall_917 8 8 23.2 0.4 0 165.6 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 8 8 23.6 0.4 0 169.2 45
STRIP LeftWall_917 8 8 24 0.4 0 172.8 45
STRIP LeftWall_917 8 8 24.4 0.4 0 176.4 45
STRIP LeftWall_917 8 8 24.8 0.4 0 180 45
STRIP LeftWall_917 8 8 25.2 0.4 0 183.6 45
STRIP LeftWall_917 8 8 25.6 0.4 0 187.2 45
STRIP LeftWall_917 8 8 26 0.4 0 190.8 45
STRIP LeftWall_917 8 8 26.4 0.4 0 194.4 45
STRIP LeftWall_917 8 8 26.8 0.4 0 198 45
STRIP LeftWall_917 8 8 27.2 0.4 0 201.6 45
STRIP LeftWall_917 8 8 27.6 0.4 0 205.2 45
STRIP LeftWall_917 8 8 28 0.4 0 208.8 45
STRIP LeftWall_917 8 8 28.4 0.4 0 212.4 45
STRIP LeftWall_917 8 8 28.8 0.4 0 216 45
STRIP LeftWall_917 8 8 29.2 0.4 0 219.6 45
STRIP LeftWall_917 8 8 29.6 0.4 0 223.2 45
STRIP LeftWall_917 8 8 30 0.4 0 226.8 45
STRIP LeftWall_917 8 8 30.4 0.4 0 230.4 45
STRIP LeftWall_917 8 8 30.8 0.4 0 234 45
STRIP LeftWall_917 8 8 31.2 0.4 0 237.6 45
STRIP LeftWall_917 8 8 31.6 0.4 0 241.2 45
STRIP LeftWall_917 8 8 32 0.4 0 244.8 45
STRIP LeftWall_917 8 8 32.4 0.4 0 248.4 45
STRIP LeftWall_917 8 8 32.8 0.4 0 252 45
STRIP LeftWall_917 8 8 33.2 0.4 0 255.6 45
STRIP LeftWall_917 8 8 33.6 0.4 0 259.2 45
STRIP LeftWall_917 8 8 34 0.4 0 262.8 45
STRIP LeftWall_917 8 8 34.4 0.4 0 266.4 45
STRIP LeftWall_917 9 9 4.8 0.4 0 0.45 45
STRIP LeftWall_917 9 9 5.2 0.4 0 3.6 45
STRIP LeftWall_917 9 9 5.6 0.4 0 7.2 45
STRIP LeftWall_917 9 9 6 0.4 0 10.8 45
STRIP LeftWall_917 9 9 6.4 0.4 0 14.4 45
STRIP LeftWall_917 9 9 6.8 0.4 0 18 45
STRIP LeftWall_917 9 9 7.2 0.4 0 21.6 45
STRIP LeftWall_917 9 9 7.6 0.4 0 25.2 45
STRIP LeftWall_917 9 9 8 0.4 0 28.8 45
STRIP LeftWall_917 9 9 8.4 0.4 0 32.4 45
STRIP LeftWall_917 9 9 8.8 0.4 0 36 45
STRIP LeftWall_917 9 9 9.2 0.4 0 39.6 45
STRIP LeftWall_917 9 9 9.6 0.4 0 43.2 45
STRIP LeftWall_917 9 9 10 0.4 0 46.8 45
STRIP LeftWall_917 9 9 10.4 0.4 0 50.4 45
STRIP LeftWall_917 9 9 10.8 0.4 0 54 45
STRIP LeftWall_917 9 9 11.2 0.4 0 57.6 45
STRIP LeftWall_917 9 9 11.6 0.4 0 61.2 45
STRIP LeftWall_917 9 9 12 0.4 0 64.8 45
STRIP LeftWall_917 9 9 12.4 0.4 0 68.4 45
STRIP LeftWall_917 9 9 12.8 0.4 0 72 45
STRIP LeftWall_917 9 9 13.2 0.4 0 75.6 45
STRIP LeftWall_917 9 9 13.6 0.4 0 79.2 45
STRIP LeftWall_917 9 9 14 0.4 0 82.8 45
STRIP LeftWall_917 9 9 14.4 0.4 0 86.4 45
STRIP LeftWall_917 9 9 14.8 0.4 0 90 45
STRIP LeftWall_917 9 9 15.2 0.4 0 93.6 45
STRIP LeftWall_917 9 9 15.6 0.4 0 97.2 45
STRIP LeftWall_917 9 9 16 0.4 0 100.8 45
STRIP LeftWall_917 9 9 16.4 0.4 0 104.4 45
STRIP LeftWall_917 9 9 16.8 0.4 0 108 45
STRIP LeftWall_917 9 9 17.2 0.4 0 111.6 45
STRIP LeftWall_917 9 9 17.6 0.4 0 115.2 45
STRIP LeftWall_917 9 9 18 0.4 0 118.8 45
STRIP LeftWall_917 9 9 18.4 0.4 0 122.4 45
STRIP LeftWall_917 9 9 18.8 0.4 0 126 45
STRIP LeftWall_917 9 9 19.2 0.4 0 129.6 45
STRIP LeftWall_917 9 9 19.6 0.4 0 133.2 45
STRIP LeftWall_917 9 9 20 0.4 0 136.8 45
STRIP LeftWall_917 9 9 20.4 0.4 0 140.4 45
STRIP LeftWall_917 9 9 20.8 0.4 0 144 45
STRIP LeftWall_917 9 9 21.2 0.4 0 147.6 45
STRIP LeftWall_917 9 9 21.6 0.4 0 151.2 45
STRIP LeftWall_917 9 9 22 0.4 0 154.8 45
STRIP LeftWall_917 9 9 22.4 0.4 0 158.4 45
STRIP LeftWall_917 9 9 22.8 0.4 0 162 45
STRIP LeftWall_917 9 9 23.2 0.4 0 165.6 45
STRIP LeftWall_917 9 9 23.6 0.4 0 169.2 45
STRIP LeftWall_917 9 9 24 0.4 0 172.8 45
STRIP LeftWall_917 9 9 24.4 0.4 0 176.4 45
STRIP LeftWall_917 9 9 24.8 0.4 0 180 45
STRIP LeftWall_917 9 9 25.2 0.4 0 183.6 45
STRIP LeftWall_917 9 9 25.6 0.4 0 187.2 45
STRIP LeftWall_917 9 9 26 0.4 0 190.8 45
STRIP LeftWall_917 9 9 26.4 0.4 0 194.4 45
STRIP LeftWall_917 9 9 26.8 0.4 0 198 45
STRIP LeftWall_917 9 9 27.2 0.4 0 201.6 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	9	9	27.6	0.4	0	205.2	45
STRIP LeftWall_917	9	9	28	0.4	0	208.8	45
STRIP LeftWall_917	9	9	28.4	0.4	0	212.4	45
STRIP LeftWall_917	9	9	28.8	0.4	0	216	45
STRIP LeftWall_917	9	9	29.2	0.4	0	219.6	45
STRIP LeftWall_917	9	9	29.6	0.4	0	223.2	45
STRIP LeftWall_917	9	9	30	0.4	0	226.8	45
STRIP LeftWall_917	9	9	30.4	0.4	0	230.4	45
STRIP LeftWall_917	9	9	30.8	0.4	0	234	45
STRIP LeftWall_917	9	9	31.2	0.4	0	237.6	45
STRIP LeftWall_917	9	9	31.6	0.4	0	241.2	45
STRIP LeftWall_917	9	9	32	0.4	0	244.8	45
STRIP LeftWall_917	9	9	32.4	0.4	0	248.4	45
STRIP LeftWall_917	9	9	32.8	0.4	0	252	45
STRIP LeftWall_917	9	9	33.2	0.4	0	255.6	45
STRIP LeftWall_917	9	9	33.6	0.4	0	259.2	45
STRIP LeftWall_917	9	9	34	0.4	0	262.8	45
STRIP LeftWall_917	9	9	34.4	0.4	0	266.4	45
STRIP LeftWall_917	10	10	4.8	0.4	0	0.45	45
STRIP LeftWall_917	10	10	5.2	0.4	0	3.6	45
STRIP LeftWall_917	10	10	5.6	0.4	0	7.2	45
STRIP LeftWall_917	10	10	6	0.4	0	10.8	45
STRIP LeftWall_917	10	10	6.4	0.4	0	14.4	45
STRIP LeftWall_917	10	10	6.8	0.4	0	18	45
STRIP LeftWall_917	10	10	7.2	0.4	0	21.6	45
STRIP LeftWall_917	10	10	7.6	0.4	0	25.2	45
STRIP LeftWall_917	10	10	8	0.4	0	28.8	45
STRIP LeftWall_917	10	10	8.4	0.4	0	32.4	45
STRIP LeftWall_917	10	10	8.8	0.4	0	36	45
STRIP LeftWall_917	10	10	9.2	0.4	0	39.6	45
STRIP LeftWall_917	10	10	9.6	0.4	0	43.2	45
STRIP LeftWall_917	10	10	10	0.4	0	46.8	45
STRIP LeftWall_917	10	10	10.4	0.4	0	50.4	45
STRIP LeftWall_917	10	10	10.8	0.4	0	54	45
STRIP LeftWall_917	10	10	11.2	0.4	0	57.6	45
STRIP LeftWall_917	10	10	11.6	0.4	0	61.2	45
STRIP LeftWall_917	10	10	12	0.4	0	64.8	45
STRIP LeftWall_917	10	10	12.4	0.4	0	68.4	45
STRIP LeftWall_917	10	10	12.8	0.4	0	72	45
STRIP LeftWall_917	10	10	13.2	0.4	0	75.6	45
STRIP LeftWall_917	10	10	13.6	0.4	0	79.2	45
STRIP LeftWall_917	10	10	14	0.4	0	82.8	45
STRIP LeftWall_917	10	10	14.4	0.4	0	86.4	45
STRIP LeftWall_917	10	10	14.8	0.4	0	90	45
STRIP LeftWall_917	10	10	15.2	0.4	0	93.6	45
STRIP LeftWall_917	10	10	15.6	0.4	0	97.2	45
STRIP LeftWall_917	10	10	16	0.4	0	100.8	45
STRIP LeftWall_917	10	10	16.4	0.4	0	104.4	45
STRIP LeftWall_917	10	10	16.8	0.4	0	108	45
STRIP LeftWall_917	10	10	17.2	0.4	0	111.6	45
STRIP LeftWall_917	10	10	17.6	0.4	0	115.2	45
STRIP LeftWall_917	10	10	18	0.4	0	118.8	45
STRIP LeftWall_917	10	10	18.4	0.4	0	122.4	45
STRIP LeftWall_917	10	10	18.8	0.4	0	126	45
STRIP LeftWall_917	10	10	19.2	0.4	0	129.6	45
STRIP LeftWall_917	10	10	19.6	0.4	0	133.2	45
STRIP LeftWall_917	10	10	20	0.4	0	136.8	45
STRIP LeftWall_917	10	10	20.4	0.4	0	140.4	45
STRIP LeftWall_917	10	10	20.8	0.4	0	144	45
STRIP LeftWall_917	10	10	21.2	0.4	0	147.6	45
STRIP LeftWall_917	10	10	21.6	0.4	0	151.2	45
STRIP LeftWall_917	10	10	22	0.4	0	154.8	45
STRIP LeftWall_917	10	10	22.4	0.4	0	158.4	45
STRIP LeftWall_917	10	10	22.8	0.4	0	162	45
STRIP LeftWall_917	10	10	23.2	0.4	0	165.6	45
STRIP LeftWall_917	10	10	23.6	0.4	0	169.2	45
STRIP LeftWall_917	10	10	24	0.4	0	172.8	45
STRIP LeftWall_917	10	10	24.4	0.4	0	176.4	45
STRIP LeftWall_917	10	10	24.8	0.4	0	180	45
STRIP LeftWall_917	10	10	25.2	0.4	0	183.6	45
STRIP LeftWall_917	10	10	25.6	0.4	0	187.2	45
STRIP LeftWall_917	10	10	26	0.4	0	190.8	45
STRIP LeftWall_917	10	10	26.4	0.4	0	194.4	45
STRIP LeftWall_917	10	10	26.8	0.4	0	198	45
STRIP LeftWall_917	10	10	27.2	0.4	0	201.6	45
STRIP LeftWall_917	10	10	27.6	0.4	0	205.2	45
STRIP LeftWall_917	10	10	28	0.4	0	208.8	45
STRIP LeftWall_917	10	10	28.4	0.4	0	212.4	45
STRIP LeftWall_917	10	10	28.8	0.4	0	216	45
STRIP LeftWall_917	10	10	29.2	0.4	0	219.6	45
STRIP LeftWall_917	10	10	29.6	0.4	0	223.2	45
STRIP LeftWall_917	10	10	30	0.4	0	226.8	45
STRIP LeftWall_917	10	10	30.4	0.4	0	230.4	45
STRIP LeftWall_917	10	10	30.8	0.4	0	234	45
STRIP LeftWall_917	10	10	31.2	0.4	0	237.6	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 10 10 31.6 0.4 0 241.2 45
STRIP LeftWall_917 10 10 32 0.4 0 244.8 45
STRIP LeftWall_917 10 10 32.4 0.4 0 248.4 45
STRIP LeftWall_917 10 10 32.8 0.4 0 252 45
STRIP LeftWall_917 10 10 33.2 0.4 0 255.6 45
STRIP LeftWall_917 10 10 33.6 0.4 0 259.2 45
STRIP LeftWall_917 10 10 34 0.4 0 262.8 45
STRIP LeftWall_917 10 10 34.4 0.4 0 266.4 45
STRIP LeftWall_917 11 11 4.8 0.4 0 0.45 45
STRIP LeftWall_917 11 11 5.2 0.4 0 3.6 45
STRIP LeftWall_917 11 11 5.6 0.4 0 7.2 45
STRIP LeftWall_917 11 11 6 0.4 0 10.8 45
STRIP LeftWall_917 11 11 6.4 0.4 0 14.4 45
STRIP LeftWall_917 11 11 6.8 0.4 0 18 45
STRIP LeftWall_917 11 11 7.2 0.4 0 21.6 45
STRIP LeftWall_917 11 11 7.6 0.4 0 25.2 45
STRIP LeftWall_917 11 11 8 0.4 0 28.8 45
STRIP LeftWall_917 11 11 8.4 0.4 0 32.4 45
STRIP LeftWall_917 11 11 8.8 0.4 0 36 45
STRIP LeftWall_917 11 11 9.2 0.4 0 39.6 45
STRIP LeftWall_917 11 11 9.6 0.4 0 43.2 45
STRIP LeftWall_917 11 11 10 0.4 0 46.8 45
STRIP LeftWall_917 11 11 10.4 0.4 0 50.4 45
STRIP LeftWall_917 11 11 10.8 0.4 0 54 45
STRIP LeftWall_917 11 11 11.2 0.4 0 57.6 45
STRIP LeftWall_917 11 11 11.6 0.4 0 61.2 45
STRIP LeftWall_917 11 11 12 0.4 0 64.8 45
STRIP LeftWall_917 11 11 12.4 0.4 0 68.4 45
STRIP LeftWall_917 11 11 12.8 0.4 0 72 45
STRIP LeftWall_917 11 11 13.2 0.4 0 75.6 45
STRIP LeftWall_917 11 11 13.6 0.4 0 79.2 45
STRIP LeftWall_917 11 11 14 0.4 0 82.8 45
STRIP LeftWall_917 11 11 14.4 0.4 0 86.4 45
STRIP LeftWall_917 11 11 14.8 0.4 0 90 45
STRIP LeftWall_917 11 11 15.2 0.4 0 93.6 45
STRIP LeftWall_917 11 11 15.6 0.4 0 97.2 45
STRIP LeftWall_917 11 11 16 0.4 0 100.8 45
STRIP LeftWall_917 11 11 16.4 0.4 0 104.4 45
STRIP LeftWall_917 11 11 16.8 0.4 0 108 45
STRIP LeftWall_917 11 11 17.2 0.4 0 111.6 45
STRIP LeftWall_917 11 11 17.6 0.4 0 115.2 45
STRIP LeftWall_917 11 11 18 0.4 0 118.8 45
STRIP LeftWall_917 11 11 18.4 0.4 0 122.4 45
STRIP LeftWall_917 11 11 18.8 0.4 0 126 45
STRIP LeftWall_917 11 11 19.2 0.4 0 129.6 45
STRIP LeftWall_917 11 11 19.6 0.4 0 133.2 45
STRIP LeftWall_917 11 11 20 0.4 0 136.8 45
STRIP LeftWall_917 11 11 20.4 0.4 0 140.4 45
STRIP LeftWall_917 11 11 20.8 0.4 0 144 45
STRIP LeftWall_917 11 11 21.2 0.4 0 147.6 45
STRIP LeftWall_917 11 11 21.6 0.4 0 151.2 45
STRIP LeftWall_917 11 11 22 0.4 0 154.8 45
STRIP LeftWall_917 11 11 22.4 0.4 0 158.4 45
STRIP LeftWall_917 11 11 22.8 0.4 0 162 45
STRIP LeftWall_917 11 11 23.2 0.4 0 165.6 45
STRIP LeftWall_917 11 11 23.6 0.4 0 169.2 45
STRIP LeftWall_917 11 11 24 0.4 0 172.8 45
STRIP LeftWall_917 11 11 24.4 0.4 0 176.4 45
STRIP LeftWall_917 11 11 24.8 0.4 0 180 45
STRIP LeftWall_917 11 11 25.2 0.4 0 183.6 45
STRIP LeftWall_917 11 11 25.6 0.4 0 187.2 45
STRIP LeftWall_917 11 11 26 0.4 0 190.8 45
STRIP LeftWall_917 11 11 26.4 0.4 0 194.4 45
STRIP LeftWall_917 11 11 26.8 0.4 0 198 45
STRIP LeftWall_917 11 11 27.2 0.4 0 201.6 45
STRIP LeftWall_917 11 11 27.6 0.4 0 205.2 45
STRIP LeftWall_917 11 11 28 0.4 0 208.8 45
STRIP LeftWall_917 11 11 28.4 0.4 0 212.4 45
STRIP LeftWall_917 11 11 28.8 0.4 0 216 45
STRIP LeftWall_917 11 11 29.2 0.4 0 219.6 45
STRIP LeftWall_917 11 11 29.6 0.4 0 223.2 45
STRIP LeftWall_917 11 11 30 0.4 0 226.8 45
STRIP LeftWall_917 11 11 30.4 0.4 0 230.4 45
STRIP LeftWall_917 11 11 30.8 0.4 0 234 45
STRIP LeftWall_917 11 11 31.2 0.4 0 237.6 45
STRIP LeftWall_917 11 11 31.6 0.4 0 241.2 45
STRIP LeftWall_917 11 11 32 0.4 0 244.8 45
STRIP LeftWall_917 11 11 32.4 0.4 0 248.4 45
STRIP LeftWall_917 11 11 32.8 0.4 0 252 45
STRIP LeftWall_917 11 11 33.2 0.4 0 255.6 45
STRIP LeftWall_917 11 11 33.6 0.4 0 259.2 45
STRIP LeftWall_917 11 11 34 0.4 0 262.8 45
STRIP LeftWall_917 11 11 34.4 0.4 0 266.4 45

* 7: Defining Steps

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

```
STEP Stepn.0Condizioniiniziali_924
CHANGE Coltredestritica_2_905_L_0 U-FRICT=30 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-FRICT=30 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KA=0.333 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KP=4.288 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KA=0.333 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KP=4.288 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KP=5.879 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KP=5.879 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-COHE=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-ADHES=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-COHE=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-ADHES=0 LeftWall_917
SETWALL LeftWall_917
GEOM 0 0
SURCHARGE 0 0 0 0
WATER -30 0 -13 0 0
ADD LeftWallElement_1092
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.1Fasediscavol-Fase1_935
SETWALL LeftWall_917
GEOM 0 -3.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.2Fasediscavol-Fase2_953
SETWALL LeftWall_917
GEOM 0 -3.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -13 0 0
ADD Tirantiesistenti+587.00_965
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.3Fasediscavo2-Fase1_973
SETWALL LeftWall_917
GEOM 0 -6.25
SURCHARGE 0 0 0 -6.25
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.4Fasediscavo2-Fase2_991
SETWALL LeftWall_917
GEOM 0 -6.25
SURCHARGE 0 0 0 -6.25
WATER -30 0 -13 0 0
ADD Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.5Fasefinaldiscavoes_1011
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.6Primotirantenuovo_1029
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
ADD TirantinuoviT3_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.7Secondotirantenuovo_1049
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



```
ADD TirantinuoviT1_3735
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage8Rilasciotirantiesist_3737
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
REMOVE Tirantiesistenti+587.00_965 Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage9Scavodiprogetto_17297
SETWALL LeftWall_917
GEOM 0 -10.5
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage10Sisma_5719
SETWALL LeftWall_917
GEOM 0 -10.5
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP
```

10.4 Design Assumption : NTC2018: A2+M2+R1 - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: NTC2018: A2+M2+R1
* Time:mercoledì 14 dicembre 2022 10:28:16
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_917 0 -13 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_917 -13 0 1 0
SOIL 0_R LeftWall_917 -13 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Coltredetrifica_2_905_L_0)
*
LDATA Coltredetrifica_2_905_L_0 30 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 18 10 10
PERMEABILITY 1E-05
RESISTANCE 0 30 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 30000 48000
ENDL
*
* Soil Profile (Marnaarenacea_8_906_L_0)
*
LDATA Marnaarenacea_8_906_L_0 -3 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 21 13 10
PERMEABILITY 0.0001
RESISTANCE 100 35 0 0 0
TZDATA LINEAR 20000 0 30 0.5 0
KSCALE 0 0
YOUNG 1E+06 1.6E+06
ENDL

* 5: Defining structural materials
* Rebar material: 54 Name=Strands 270 ksi E=200100000 kPa
MATERIAL Strands270ksi_54 2.001E+08
* Concrete material: 1093 Name=C20/25 E=29962000 kPa
MATERIAL C2025_1093 2.9962E+07
* Steel material: 43 Name=Fe510 E=206000200 kPa
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

MATERIAL Fe510_43 2.06E+08

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later

BEAM LeftWallElement_1092 LeftWall_917 -13 0 Fe510_43 0.080792 0.018495 4.3946E-05 1.4241 00 00 0

* 6.2: Supports

WIRE Tirantiesistenti+587.00_965 LeftWall_917 -3 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+584.00_1003 LeftWall_917 -6 Strands270ksi_54 1.9841E-05 62.5 15 0 0
WIRE TirantinuoviT3_3643 LeftWall_917 -8 Strands270ksi_54 1.9501E-05 62.5 15 0 0
WIRE TirantinuoviT1_3735 LeftWall_917 -1 Strands270ksi_54 1.611E-05 62.5 15 0 0

* 6.3: Strips

* (slope contribution)

STRIP LeftWall_917 1 1 4.8 0.4 0 0.45 45
STRIP LeftWall_917 1 1 5.2 0.4 0 3.6 45
STRIP LeftWall_917 1 1 5.6 0.4 0 7.2 45
STRIP LeftWall_917 1 1 6 0.4 0 10.8 45
STRIP LeftWall_917 1 1 6.4 0.4 0 14.4 45
STRIP LeftWall_917 1 1 6.8 0.4 0 18 45
STRIP LeftWall_917 1 1 7.2 0.4 0 21.6 45
STRIP LeftWall_917 1 1 7.6 0.4 0 25.2 45
STRIP LeftWall_917 1 1 8 0.4 0 28.8 45
STRIP LeftWall_917 1 1 8.4 0.4 0 32.4 45
STRIP LeftWall_917 1 1 8.8 0.4 0 36 45
STRIP LeftWall_917 1 1 9.2 0.4 0 39.6 45
STRIP LeftWall_917 1 1 9.6 0.4 0 43.2 45
STRIP LeftWall_917 1 1 10 0.4 0 46.8 45
STRIP LeftWall_917 1 1 10.4 0.4 0 50.4 45
STRIP LeftWall_917 1 1 10.8 0.4 0 54 45
STRIP LeftWall_917 1 1 11.2 0.4 0 57.6 45
STRIP LeftWall_917 1 1 11.6 0.4 0 61.2 45
STRIP LeftWall_917 1 1 12 0.4 0 64.8 45
STRIP LeftWall_917 1 1 12.4 0.4 0 68.4 45
STRIP LeftWall_917 1 1 12.8 0.4 0 72 45
STRIP LeftWall_917 1 1 13.2 0.4 0 75.6 45
STRIP LeftWall_917 1 1 13.6 0.4 0 79.2 45
STRIP LeftWall_917 1 1 14 0.4 0 82.8 45
STRIP LeftWall_917 1 1 14.4 0.4 0 86.4 45
STRIP LeftWall_917 1 1 14.8 0.4 0 90 45
STRIP LeftWall_917 1 1 15.2 0.4 0 93.6 45
STRIP LeftWall_917 1 1 15.6 0.4 0 97.2 45
STRIP LeftWall_917 1 1 16 0.4 0 100.8 45
STRIP LeftWall_917 1 1 16.4 0.4 0 104.4 45
STRIP LeftWall_917 1 1 16.8 0.4 0 108 45
STRIP LeftWall_917 1 1 17.2 0.4 0 111.6 45
STRIP LeftWall_917 1 1 17.6 0.4 0 115.2 45
STRIP LeftWall_917 1 1 18 0.4 0 118.8 45
STRIP LeftWall_917 1 1 18.4 0.4 0 122.4 45
STRIP LeftWall_917 1 1 18.8 0.4 0 126 45
STRIP LeftWall_917 1 1 19.2 0.4 0 129.6 45
STRIP LeftWall_917 1 1 19.6 0.4 0 133.2 45
STRIP LeftWall_917 1 1 20 0.4 0 136.8 45
STRIP LeftWall_917 1 1 20.4 0.4 0 140.4 45
STRIP LeftWall_917 1 1 20.8 0.4 0 144 45
STRIP LeftWall_917 1 1 21.2 0.4 0 147.6 45
STRIP LeftWall_917 1 1 21.6 0.4 0 151.2 45
STRIP LeftWall_917 1 1 22 0.4 0 154.8 45
STRIP LeftWall_917 1 1 22.4 0.4 0 158.4 45
STRIP LeftWall_917 1 1 22.8 0.4 0 162 45
STRIP LeftWall_917 1 1 23.2 0.4 0 165.6 45
STRIP LeftWall_917 1 1 23.6 0.4 0 169.2 45
STRIP LeftWall_917 1 1 24 0.4 0 172.8 45
STRIP LeftWall_917 1 1 24.4 0.4 0 176.4 45
STRIP LeftWall_917 1 1 24.8 0.4 0 180 45
STRIP LeftWall_917 1 1 25.2 0.4 0 183.6 45
STRIP LeftWall_917 1 1 25.6 0.4 0 187.2 45
STRIP LeftWall_917 1 1 26 0.4 0 190.8 45
STRIP LeftWall_917 1 1 26.4 0.4 0 194.4 45
STRIP LeftWall_917 1 1 26.8 0.4 0 198 45
STRIP LeftWall_917 1 1 27.2 0.4 0 201.6 45
STRIP LeftWall_917 1 1 27.6 0.4 0 205.2 45
STRIP LeftWall_917 1 1 28 0.4 0 208.8 45
STRIP LeftWall_917 1 1 28.4 0.4 0 212.4 45
STRIP LeftWall_917 1 1 28.8 0.4 0 216 45
STRIP LeftWall_917 1 1 29.2 0.4 0 219.6 45
STRIP LeftWall_917 1 1 29.6 0.4 0 223.2 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 1 1 30 0.4 0 226.8 45
STRIP LeftWall_917 1 1 30.4 0.4 0 230.4 45
STRIP LeftWall_917 1 1 30.8 0.4 0 234 45
STRIP LeftWall_917 1 1 31.2 0.4 0 237.6 45
STRIP LeftWall_917 1 1 31.6 0.4 0 241.2 45
STRIP LeftWall_917 1 1 32 0.4 0 244.8 45
STRIP LeftWall_917 1 1 32.4 0.4 0 248.4 45
STRIP LeftWall_917 1 1 32.8 0.4 0 252 45
STRIP LeftWall_917 1 1 33.2 0.4 0 255.6 45
STRIP LeftWall_917 1 1 33.6 0.4 0 259.2 45
STRIP LeftWall_917 1 1 34 0.4 0 262.8 45
STRIP LeftWall_917 1 1 34.4 0.4 0 266.4 45
STRIP LeftWall_917 2 2 4.8 0.4 0 0.45 45
STRIP LeftWall_917 2 2 5.2 0.4 0 3.6 45
STRIP LeftWall_917 2 2 5.6 0.4 0 7.2 45
STRIP LeftWall_917 2 2 6 0.4 0 10.8 45
STRIP LeftWall_917 2 2 6.4 0.4 0 14.4 45
STRIP LeftWall_917 2 2 6.8 0.4 0 18 45
STRIP LeftWall_917 2 2 7.2 0.4 0 21.6 45
STRIP LeftWall_917 2 2 7.6 0.4 0 25.2 45
STRIP LeftWall_917 2 2 8 0.4 0 28.8 45
STRIP LeftWall_917 2 2 8.4 0.4 0 32.4 45
STRIP LeftWall_917 2 2 8.8 0.4 0 36 45
STRIP LeftWall_917 2 2 9.2 0.4 0 39.6 45
STRIP LeftWall_917 2 2 9.6 0.4 0 43.2 45
STRIP LeftWall_917 2 2 10 0.4 0 46.8 45
STRIP LeftWall_917 2 2 10.4 0.4 0 50.4 45
STRIP LeftWall_917 2 2 10.8 0.4 0 54 45
STRIP LeftWall_917 2 2 11.2 0.4 0 57.6 45
STRIP LeftWall_917 2 2 11.6 0.4 0 61.2 45
STRIP LeftWall_917 2 2 12 0.4 0 64.8 45
STRIP LeftWall_917 2 2 12.4 0.4 0 68.4 45
STRIP LeftWall_917 2 2 12.8 0.4 0 72 45
STRIP LeftWall_917 2 2 13.2 0.4 0 75.6 45
STRIP LeftWall_917 2 2 13.6 0.4 0 79.2 45
STRIP LeftWall_917 2 2 14 0.4 0 82.8 45
STRIP LeftWall_917 2 2 14.4 0.4 0 86.4 45
STRIP LeftWall_917 2 2 14.8 0.4 0 90 45
STRIP LeftWall_917 2 2 15.2 0.4 0 93.6 45
STRIP LeftWall_917 2 2 15.6 0.4 0 97.2 45
STRIP LeftWall_917 2 2 16 0.4 0 100.8 45
STRIP LeftWall_917 2 2 16.4 0.4 0 104.4 45
STRIP LeftWall_917 2 2 16.8 0.4 0 108 45
STRIP LeftWall_917 2 2 17.2 0.4 0 111.6 45
STRIP LeftWall_917 2 2 17.6 0.4 0 115.2 45
STRIP LeftWall_917 2 2 18 0.4 0 118.8 45
STRIP LeftWall_917 2 2 18.4 0.4 0 122.4 45
STRIP LeftWall_917 2 2 18.8 0.4 0 126 45
STRIP LeftWall_917 2 2 19.2 0.4 0 129.6 45
STRIP LeftWall_917 2 2 19.6 0.4 0 133.2 45
STRIP LeftWall_917 2 2 20 0.4 0 136.8 45
STRIP LeftWall_917 2 2 20.4 0.4 0 140.4 45
STRIP LeftWall_917 2 2 20.8 0.4 0 144 45
STRIP LeftWall_917 2 2 21.2 0.4 0 147.6 45
STRIP LeftWall_917 2 2 21.6 0.4 0 151.2 45
STRIP LeftWall_917 2 2 22 0.4 0 154.8 45
STRIP LeftWall_917 2 2 22.4 0.4 0 158.4 45
STRIP LeftWall_917 2 2 22.8 0.4 0 162 45
STRIP LeftWall_917 2 2 23.2 0.4 0 165.6 45
STRIP LeftWall_917 2 2 23.6 0.4 0 169.2 45
STRIP LeftWall_917 2 2 24 0.4 0 172.8 45
STRIP LeftWall_917 2 2 24.4 0.4 0 176.4 45
STRIP LeftWall_917 2 2 24.8 0.4 0 180 45
STRIP LeftWall_917 2 2 25.2 0.4 0 183.6 45
STRIP LeftWall_917 2 2 25.6 0.4 0 187.2 45
STRIP LeftWall_917 2 2 26 0.4 0 190.8 45
STRIP LeftWall_917 2 2 26.4 0.4 0 194.4 45
STRIP LeftWall_917 2 2 26.8 0.4 0 198 45
STRIP LeftWall_917 2 2 27.2 0.4 0 201.6 45
STRIP LeftWall_917 2 2 27.6 0.4 0 205.2 45
STRIP LeftWall_917 2 2 28 0.4 0 208.8 45
STRIP LeftWall_917 2 2 28.4 0.4 0 212.4 45
STRIP LeftWall_917 2 2 28.8 0.4 0 216 45
STRIP LeftWall_917 2 2 29.2 0.4 0 219.6 45
STRIP LeftWall_917 2 2 29.6 0.4 0 223.2 45
STRIP LeftWall_917 2 2 30 0.4 0 226.8 45
STRIP LeftWall_917 2 2 30.4 0.4 0 230.4 45
STRIP LeftWall_917 2 2 30.8 0.4 0 234 45
STRIP LeftWall_917 2 2 31.2 0.4 0 237.6 45
STRIP LeftWall_917 2 2 31.6 0.4 0 241.2 45
STRIP LeftWall_917 2 2 32 0.4 0 244.8 45
STRIP LeftWall_917 2 2 32.4 0.4 0 248.4 45
STRIP LeftWall_917 2 2 32.8 0.4 0 252 45
STRIP LeftWall_917 2 2 33.2 0.4 0 255.6 45
STRIP LeftWall_917 2 2 33.6 0.4 0 259.2 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 2 2 34 0.4 0 262.8 45
STRIP LeftWall_917 2 2 34.4 0.4 0 266.4 45
STRIP LeftWall_917 3 3 4.8 0.4 0 0.45 45
STRIP LeftWall_917 3 3 5.2 0.4 0 3.6 45
STRIP LeftWall_917 3 3 5.6 0.4 0 7.2 45
STRIP LeftWall_917 3 3 6 0.4 0 10.8 45
STRIP LeftWall_917 3 3 6.4 0.4 0 14.4 45
STRIP LeftWall_917 3 3 6.8 0.4 0 18 45
STRIP LeftWall_917 3 3 7.2 0.4 0 21.6 45
STRIP LeftWall_917 3 3 7.6 0.4 0 25.2 45
STRIP LeftWall_917 3 3 8 0.4 0 28.8 45
STRIP LeftWall_917 3 3 8.4 0.4 0 32.4 45
STRIP LeftWall_917 3 3 8.8 0.4 0 36 45
STRIP LeftWall_917 3 3 9.2 0.4 0 39.6 45
STRIP LeftWall_917 3 3 9.6 0.4 0 43.2 45
STRIP LeftWall_917 3 3 10 0.4 0 46.8 45
STRIP LeftWall_917 3 3 10.4 0.4 0 50.4 45
STRIP LeftWall_917 3 3 10.8 0.4 0 54 45
STRIP LeftWall_917 3 3 11.2 0.4 0 57.6 45
STRIP LeftWall_917 3 3 11.6 0.4 0 61.2 45
STRIP LeftWall_917 3 3 12 0.4 0 64.8 45
STRIP LeftWall_917 3 3 12.4 0.4 0 68.4 45
STRIP LeftWall_917 3 3 12.8 0.4 0 72 45
STRIP LeftWall_917 3 3 13.2 0.4 0 75.6 45
STRIP LeftWall_917 3 3 13.6 0.4 0 79.2 45
STRIP LeftWall_917 3 3 14 0.4 0 82.8 45
STRIP LeftWall_917 3 3 14.4 0.4 0 86.4 45
STRIP LeftWall_917 3 3 14.8 0.4 0 90 45
STRIP LeftWall_917 3 3 15.2 0.4 0 93.6 45
STRIP LeftWall_917 3 3 15.6 0.4 0 97.2 45
STRIP LeftWall_917 3 3 16 0.4 0 100.8 45
STRIP LeftWall_917 3 3 16.4 0.4 0 104.4 45
STRIP LeftWall_917 3 3 16.8 0.4 0 108 45
STRIP LeftWall_917 3 3 17.2 0.4 0 111.6 45
STRIP LeftWall_917 3 3 17.6 0.4 0 115.2 45
STRIP LeftWall_917 3 3 18 0.4 0 118.8 45
STRIP LeftWall_917 3 3 18.4 0.4 0 122.4 45
STRIP LeftWall_917 3 3 18.8 0.4 0 126 45
STRIP LeftWall_917 3 3 19.2 0.4 0 129.6 45
STRIP LeftWall_917 3 3 19.6 0.4 0 133.2 45
STRIP LeftWall_917 3 3 20 0.4 0 136.8 45
STRIP LeftWall_917 3 3 20.4 0.4 0 140.4 45
STRIP LeftWall_917 3 3 20.8 0.4 0 144 45
STRIP LeftWall_917 3 3 21.2 0.4 0 147.6 45
STRIP LeftWall_917 3 3 21.6 0.4 0 151.2 45
STRIP LeftWall_917 3 3 22 0.4 0 154.8 45
STRIP LeftWall_917 3 3 22.4 0.4 0 158.4 45
STRIP LeftWall_917 3 3 22.8 0.4 0 162 45
STRIP LeftWall_917 3 3 23.2 0.4 0 165.6 45
STRIP LeftWall_917 3 3 23.6 0.4 0 169.2 45
STRIP LeftWall_917 3 3 24 0.4 0 172.8 45
STRIP LeftWall_917 3 3 24.4 0.4 0 176.4 45
STRIP LeftWall_917 3 3 24.8 0.4 0 180 45
STRIP LeftWall_917 3 3 25.2 0.4 0 183.6 45
STRIP LeftWall_917 3 3 25.6 0.4 0 187.2 45
STRIP LeftWall_917 3 3 26 0.4 0 190.8 45
STRIP LeftWall_917 3 3 26.4 0.4 0 194.4 45
STRIP LeftWall_917 3 3 26.8 0.4 0 198 45
STRIP LeftWall_917 3 3 27.2 0.4 0 201.6 45
STRIP LeftWall_917 3 3 27.6 0.4 0 205.2 45
STRIP LeftWall_917 3 3 28 0.4 0 208.8 45
STRIP LeftWall_917 3 3 28.4 0.4 0 212.4 45
STRIP LeftWall_917 3 3 28.8 0.4 0 216 45
STRIP LeftWall_917 3 3 29.2 0.4 0 219.6 45
STRIP LeftWall_917 3 3 29.6 0.4 0 223.2 45
STRIP LeftWall_917 3 3 30 0.4 0 226.8 45
STRIP LeftWall_917 3 3 30.4 0.4 0 230.4 45
STRIP LeftWall_917 3 3 30.8 0.4 0 234 45
STRIP LeftWall_917 3 3 31.2 0.4 0 237.6 45
STRIP LeftWall_917 3 3 31.6 0.4 0 241.2 45
STRIP LeftWall_917 3 3 32 0.4 0 244.8 45
STRIP LeftWall_917 3 3 32.4 0.4 0 248.4 45
STRIP LeftWall_917 3 3 32.8 0.4 0 252 45
STRIP LeftWall_917 3 3 33.2 0.4 0 255.6 45
STRIP LeftWall_917 3 3 33.6 0.4 0 259.2 45
STRIP LeftWall_917 3 3 34 0.4 0 262.8 45
STRIP LeftWall_917 3 3 34.4 0.4 0 266.4 45
STRIP LeftWall_917 4 4 4.8 0.4 0 0.45 45
STRIP LeftWall_917 4 4 5.2 0.4 0 3.6 45
STRIP LeftWall_917 4 4 5.6 0.4 0 7.2 45
STRIP LeftWall_917 4 4 6 0.4 0 10.8 45
STRIP LeftWall_917 4 4 6.4 0.4 0 14.4 45
STRIP LeftWall_917 4 4 6.8 0.4 0 18 45
STRIP LeftWall_917 4 4 7.2 0.4 0 21.6 45
STRIP LeftWall_917 4 4 7.6 0.4 0 25.2 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 4 4 8 0.4 0 28.8 45
STRIP LeftWall_917 4 4 8.4 0.4 0 32.4 45
STRIP LeftWall_917 4 4 8.8 0.4 0 36 45
STRIP LeftWall_917 4 4 9.2 0.4 0 39.6 45
STRIP LeftWall_917 4 4 9.6 0.4 0 43.2 45
STRIP LeftWall_917 4 4 10 0.4 0 46.8 45
STRIP LeftWall_917 4 4 10.4 0.4 0 50.4 45
STRIP LeftWall_917 4 4 10.8 0.4 0 54 45
STRIP LeftWall_917 4 4 11.2 0.4 0 57.6 45
STRIP LeftWall_917 4 4 11.6 0.4 0 61.2 45
STRIP LeftWall_917 4 4 12 0.4 0 64.8 45
STRIP LeftWall_917 4 4 12.4 0.4 0 68.4 45
STRIP LeftWall_917 4 4 12.8 0.4 0 72 45
STRIP LeftWall_917 4 4 13.2 0.4 0 75.6 45
STRIP LeftWall_917 4 4 13.6 0.4 0 79.2 45
STRIP LeftWall_917 4 4 14 0.4 0 82.8 45
STRIP LeftWall_917 4 4 14.4 0.4 0 86.4 45
STRIP LeftWall_917 4 4 14.8 0.4 0 90 45
STRIP LeftWall_917 4 4 15.2 0.4 0 93.6 45
STRIP LeftWall_917 4 4 15.6 0.4 0 97.2 45
STRIP LeftWall_917 4 4 16 0.4 0 100.8 45
STRIP LeftWall_917 4 4 16.4 0.4 0 104.4 45
STRIP LeftWall_917 4 4 16.8 0.4 0 108 45
STRIP LeftWall_917 4 4 17.2 0.4 0 111.6 45
STRIP LeftWall_917 4 4 17.6 0.4 0 115.2 45
STRIP LeftWall_917 4 4 18 0.4 0 118.8 45
STRIP LeftWall_917 4 4 18.4 0.4 0 122.4 45
STRIP LeftWall_917 4 4 18.8 0.4 0 126 45
STRIP LeftWall_917 4 4 19.2 0.4 0 129.6 45
STRIP LeftWall_917 4 4 19.6 0.4 0 133.2 45
STRIP LeftWall_917 4 4 20 0.4 0 136.8 45
STRIP LeftWall_917 4 4 20.4 0.4 0 140.4 45
STRIP LeftWall_917 4 4 20.8 0.4 0 144 45
STRIP LeftWall_917 4 4 21.2 0.4 0 147.6 45
STRIP LeftWall_917 4 4 21.6 0.4 0 151.2 45
STRIP LeftWall_917 4 4 22 0.4 0 154.8 45
STRIP LeftWall_917 4 4 22.4 0.4 0 158.4 45
STRIP LeftWall_917 4 4 22.8 0.4 0 162 45
STRIP LeftWall_917 4 4 23.2 0.4 0 165.6 45
STRIP LeftWall_917 4 4 23.6 0.4 0 169.2 45
STRIP LeftWall_917 4 4 24 0.4 0 172.8 45
STRIP LeftWall_917 4 4 24.4 0.4 0 176.4 45
STRIP LeftWall_917 4 4 24.8 0.4 0 180 45
STRIP LeftWall_917 4 4 25.2 0.4 0 183.6 45
STRIP LeftWall_917 4 4 25.6 0.4 0 187.2 45
STRIP LeftWall_917 4 4 26 0.4 0 190.8 45
STRIP LeftWall_917 4 4 26.4 0.4 0 194.4 45
STRIP LeftWall_917 4 4 26.8 0.4 0 198 45
STRIP LeftWall_917 4 4 27.2 0.4 0 201.6 45
STRIP LeftWall_917 4 4 27.6 0.4 0 205.2 45
STRIP LeftWall_917 4 4 28 0.4 0 208.8 45
STRIP LeftWall_917 4 4 28.4 0.4 0 212.4 45
STRIP LeftWall_917 4 4 28.8 0.4 0 216 45
STRIP LeftWall_917 4 4 29.2 0.4 0 219.6 45
STRIP LeftWall_917 4 4 29.6 0.4 0 223.2 45
STRIP LeftWall_917 4 4 30 0.4 0 226.8 45
STRIP LeftWall_917 4 4 30.4 0.4 0 230.4 45
STRIP LeftWall_917 4 4 30.8 0.4 0 234 45
STRIP LeftWall_917 4 4 31.2 0.4 0 237.6 45
STRIP LeftWall_917 4 4 31.6 0.4 0 241.2 45
STRIP LeftWall_917 4 4 32 0.4 0 244.8 45
STRIP LeftWall_917 4 4 32.4 0.4 0 248.4 45
STRIP LeftWall_917 4 4 32.8 0.4 0 252 45
STRIP LeftWall_917 4 4 33.2 0.4 0 255.6 45
STRIP LeftWall_917 4 4 33.6 0.4 0 259.2 45
STRIP LeftWall_917 4 4 34 0.4 0 262.8 45
STRIP LeftWall_917 4 4 34.4 0.4 0 266.4 45
STRIP LeftWall_917 5 5 4.8 0.4 0 0.45 45
STRIP LeftWall_917 5 5 5.2 0.4 0 3.6 45
STRIP LeftWall_917 5 5 5.6 0.4 0 7.2 45
STRIP LeftWall_917 5 5 6 0.4 0 10.8 45
STRIP LeftWall_917 5 5 6.4 0.4 0 14.4 45
STRIP LeftWall_917 5 5 6.8 0.4 0 18 45
STRIP LeftWall_917 5 5 7.2 0.4 0 21.6 45
STRIP LeftWall_917 5 5 7.6 0.4 0 25.2 45
STRIP LeftWall_917 5 5 8 0.4 0 28.8 45
STRIP LeftWall_917 5 5 8.4 0.4 0 32.4 45
STRIP LeftWall_917 5 5 8.8 0.4 0 36 45
STRIP LeftWall_917 5 5 9.2 0.4 0 39.6 45
STRIP LeftWall_917 5 5 9.6 0.4 0 43.2 45
STRIP LeftWall_917 5 5 10 0.4 0 46.8 45
STRIP LeftWall_917 5 5 10.4 0.4 0 50.4 45
STRIP LeftWall_917 5 5 10.8 0.4 0 54 45
STRIP LeftWall_917 5 5 11.2 0.4 0 57.6 45
STRIP LeftWall_917 5 5 11.6 0.4 0 61.2 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 5 5 12 0.4 0 64.8 45
STRIP LeftWall_917 5 5 12.4 0.4 0 68.4 45
STRIP LeftWall_917 5 5 12.8 0.4 0 72 45
STRIP LeftWall_917 5 5 13.2 0.4 0 75.6 45
STRIP LeftWall_917 5 5 13.6 0.4 0 79.2 45
STRIP LeftWall_917 5 5 14 0.4 0 82.8 45
STRIP LeftWall_917 5 5 14.4 0.4 0 86.4 45
STRIP LeftWall_917 5 5 14.8 0.4 0 90 45
STRIP LeftWall_917 5 5 15.2 0.4 0 93.6 45
STRIP LeftWall_917 5 5 15.6 0.4 0 97.2 45
STRIP LeftWall_917 5 5 16 0.4 0 100.8 45
STRIP LeftWall_917 5 5 16.4 0.4 0 104.4 45
STRIP LeftWall_917 5 5 16.8 0.4 0 108 45
STRIP LeftWall_917 5 5 17.2 0.4 0 111.6 45
STRIP LeftWall_917 5 5 17.6 0.4 0 115.2 45
STRIP LeftWall_917 5 5 18 0.4 0 118.8 45
STRIP LeftWall_917 5 5 18.4 0.4 0 122.4 45
STRIP LeftWall_917 5 5 18.8 0.4 0 126 45
STRIP LeftWall_917 5 5 19.2 0.4 0 129.6 45
STRIP LeftWall_917 5 5 19.6 0.4 0 133.2 45
STRIP LeftWall_917 5 5 20 0.4 0 136.8 45
STRIP LeftWall_917 5 5 20.4 0.4 0 140.4 45
STRIP LeftWall_917 5 5 20.8 0.4 0 144 45
STRIP LeftWall_917 5 5 21.2 0.4 0 147.6 45
STRIP LeftWall_917 5 5 21.6 0.4 0 151.2 45
STRIP LeftWall_917 5 5 22 0.4 0 154.8 45
STRIP LeftWall_917 5 5 22.4 0.4 0 158.4 45
STRIP LeftWall_917 5 5 22.8 0.4 0 162 45
STRIP LeftWall_917 5 5 23.2 0.4 0 165.6 45
STRIP LeftWall_917 5 5 23.6 0.4 0 169.2 45
STRIP LeftWall_917 5 5 24 0.4 0 172.8 45
STRIP LeftWall_917 5 5 24.4 0.4 0 176.4 45
STRIP LeftWall_917 5 5 24.8 0.4 0 180 45
STRIP LeftWall_917 5 5 25.2 0.4 0 183.6 45
STRIP LeftWall_917 5 5 25.6 0.4 0 187.2 45
STRIP LeftWall_917 5 5 26 0.4 0 190.8 45
STRIP LeftWall_917 5 5 26.4 0.4 0 194.4 45
STRIP LeftWall_917 5 5 26.8 0.4 0 198 45
STRIP LeftWall_917 5 5 27.2 0.4 0 201.6 45
STRIP LeftWall_917 5 5 27.6 0.4 0 205.2 45
STRIP LeftWall_917 5 5 28 0.4 0 208.8 45
STRIP LeftWall_917 5 5 28.4 0.4 0 212.4 45
STRIP LeftWall_917 5 5 28.8 0.4 0 216 45
STRIP LeftWall_917 5 5 29.2 0.4 0 219.6 45
STRIP LeftWall_917 5 5 29.6 0.4 0 223.2 45
STRIP LeftWall_917 5 5 30 0.4 0 226.8 45
STRIP LeftWall_917 5 5 30.4 0.4 0 230.4 45
STRIP LeftWall_917 5 5 30.8 0.4 0 234 45
STRIP LeftWall_917 5 5 31.2 0.4 0 237.6 45
STRIP LeftWall_917 5 5 31.6 0.4 0 241.2 45
STRIP LeftWall_917 5 5 32 0.4 0 244.8 45
STRIP LeftWall_917 5 5 32.4 0.4 0 248.4 45
STRIP LeftWall_917 5 5 32.8 0.4 0 252 45
STRIP LeftWall_917 5 5 33.2 0.4 0 255.6 45
STRIP LeftWall_917 5 5 33.6 0.4 0 259.2 45
STRIP LeftWall_917 5 5 34 0.4 0 262.8 45
STRIP LeftWall_917 5 5 34.4 0.4 0 266.4 45
STRIP LeftWall_917 6 6 4.8 0.4 0 0.45 45
STRIP LeftWall_917 6 6 5.2 0.4 0 3.6 45
STRIP LeftWall_917 6 6 5.6 0.4 0 7.2 45
STRIP LeftWall_917 6 6 6 0.4 0 10.8 45
STRIP LeftWall_917 6 6 6.4 0.4 0 14.4 45
STRIP LeftWall_917 6 6 6.8 0.4 0 18 45
STRIP LeftWall_917 6 6 7.2 0.4 0 21.6 45
STRIP LeftWall_917 6 6 7.6 0.4 0 25.2 45
STRIP LeftWall_917 6 6 8 0.4 0 28.8 45
STRIP LeftWall_917 6 6 8.4 0.4 0 32.4 45
STRIP LeftWall_917 6 6 8.8 0.4 0 36 45
STRIP LeftWall_917 6 6 9.2 0.4 0 39.6 45
STRIP LeftWall_917 6 6 9.6 0.4 0 43.2 45
STRIP LeftWall_917 6 6 10 0.4 0 46.8 45
STRIP LeftWall_917 6 6 10.4 0.4 0 50.4 45
STRIP LeftWall_917 6 6 10.8 0.4 0 54 45
STRIP LeftWall_917 6 6 11.2 0.4 0 57.6 45
STRIP LeftWall_917 6 6 11.6 0.4 0 61.2 45
STRIP LeftWall_917 6 6 12 0.4 0 64.8 45
STRIP LeftWall_917 6 6 12.4 0.4 0 68.4 45
STRIP LeftWall_917 6 6 12.8 0.4 0 72 45
STRIP LeftWall_917 6 6 13.2 0.4 0 75.6 45
STRIP LeftWall_917 6 6 13.6 0.4 0 79.2 45
STRIP LeftWall_917 6 6 14 0.4 0 82.8 45
STRIP LeftWall_917 6 6 14.4 0.4 0 86.4 45
STRIP LeftWall_917 6 6 14.8 0.4 0 90 45
STRIP LeftWall_917 6 6 15.2 0.4 0 93.6 45
STRIP LeftWall_917 6 6 15.6 0.4 0 97.2 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 6 6 16 0.4 0 100.8 45
STRIP LeftWall_917 6 6 16.4 0.4 0 104.4 45
STRIP LeftWall_917 6 6 16.8 0.4 0 108 45
STRIP LeftWall_917 6 6 17.2 0.4 0 111.6 45
STRIP LeftWall_917 6 6 17.6 0.4 0 115.2 45
STRIP LeftWall_917 6 6 18 0.4 0 118.8 45
STRIP LeftWall_917 6 6 18.4 0.4 0 122.4 45
STRIP LeftWall_917 6 6 18.8 0.4 0 126 45
STRIP LeftWall_917 6 6 19.2 0.4 0 129.6 45
STRIP LeftWall_917 6 6 19.6 0.4 0 133.2 45
STRIP LeftWall_917 6 6 20 0.4 0 136.8 45
STRIP LeftWall_917 6 6 20.4 0.4 0 140.4 45
STRIP LeftWall_917 6 6 20.8 0.4 0 144 45
STRIP LeftWall_917 6 6 21.2 0.4 0 147.6 45
STRIP LeftWall_917 6 6 21.6 0.4 0 151.2 45
STRIP LeftWall_917 6 6 22 0.4 0 154.8 45
STRIP LeftWall_917 6 6 22.4 0.4 0 158.4 45
STRIP LeftWall_917 6 6 22.8 0.4 0 162 45
STRIP LeftWall_917 6 6 23.2 0.4 0 165.6 45
STRIP LeftWall_917 6 6 23.6 0.4 0 169.2 45
STRIP LeftWall_917 6 6 24 0.4 0 172.8 45
STRIP LeftWall_917 6 6 24.4 0.4 0 176.4 45
STRIP LeftWall_917 6 6 24.8 0.4 0 180 45
STRIP LeftWall_917 6 6 25.2 0.4 0 183.6 45
STRIP LeftWall_917 6 6 25.6 0.4 0 187.2 45
STRIP LeftWall_917 6 6 26 0.4 0 190.8 45
STRIP LeftWall_917 6 6 26.4 0.4 0 194.4 45
STRIP LeftWall_917 6 6 26.8 0.4 0 198 45
STRIP LeftWall_917 6 6 27.2 0.4 0 201.6 45
STRIP LeftWall_917 6 6 27.6 0.4 0 205.2 45
STRIP LeftWall_917 6 6 28 0.4 0 208.8 45
STRIP LeftWall_917 6 6 28.4 0.4 0 212.4 45
STRIP LeftWall_917 6 6 28.8 0.4 0 216 45
STRIP LeftWall_917 6 6 29.2 0.4 0 219.6 45
STRIP LeftWall_917 6 6 29.6 0.4 0 223.2 45
STRIP LeftWall_917 6 6 30 0.4 0 226.8 45
STRIP LeftWall_917 6 6 30.4 0.4 0 230.4 45
STRIP LeftWall_917 6 6 30.8 0.4 0 234 45
STRIP LeftWall_917 6 6 31.2 0.4 0 237.6 45
STRIP LeftWall_917 6 6 31.6 0.4 0 241.2 45
STRIP LeftWall_917 6 6 32 0.4 0 244.8 45
STRIP LeftWall_917 6 6 32.4 0.4 0 248.4 45
STRIP LeftWall_917 6 6 32.8 0.4 0 252 45
STRIP LeftWall_917 6 6 33.2 0.4 0 255.6 45
STRIP LeftWall_917 6 6 33.6 0.4 0 259.2 45
STRIP LeftWall_917 6 6 34 0.4 0 262.8 45
STRIP LeftWall_917 6 6 34.4 0.4 0 266.4 45
STRIP LeftWall_917 7 7 4.8 0.4 0 0.45 45
STRIP LeftWall_917 7 7 5.2 0.4 0 3.6 45
STRIP LeftWall_917 7 7 5.6 0.4 0 7.2 45
STRIP LeftWall_917 7 7 6 0.4 0 10.8 45
STRIP LeftWall_917 7 7 6.4 0.4 0 14.4 45
STRIP LeftWall_917 7 7 6.8 0.4 0 18 45
STRIP LeftWall_917 7 7 7.2 0.4 0 21.6 45
STRIP LeftWall_917 7 7 7.6 0.4 0 25.2 45
STRIP LeftWall_917 7 7 8 0.4 0 28.8 45
STRIP LeftWall_917 7 7 8.4 0.4 0 32.4 45
STRIP LeftWall_917 7 7 8.8 0.4 0 36 45
STRIP LeftWall_917 7 7 9.2 0.4 0 39.6 45
STRIP LeftWall_917 7 7 9.6 0.4 0 43.2 45
STRIP LeftWall_917 7 7 10 0.4 0 46.8 45
STRIP LeftWall_917 7 7 10.4 0.4 0 50.4 45
STRIP LeftWall_917 7 7 10.8 0.4 0 54 45
STRIP LeftWall_917 7 7 11.2 0.4 0 57.6 45
STRIP LeftWall_917 7 7 11.6 0.4 0 61.2 45
STRIP LeftWall_917 7 7 12 0.4 0 64.8 45
STRIP LeftWall_917 7 7 12.4 0.4 0 68.4 45
STRIP LeftWall_917 7 7 12.8 0.4 0 72 45
STRIP LeftWall_917 7 7 13.2 0.4 0 75.6 45
STRIP LeftWall_917 7 7 13.6 0.4 0 79.2 45
STRIP LeftWall_917 7 7 14 0.4 0 82.8 45
STRIP LeftWall_917 7 7 14.4 0.4 0 86.4 45
STRIP LeftWall_917 7 7 14.8 0.4 0 90 45
STRIP LeftWall_917 7 7 15.2 0.4 0 93.6 45
STRIP LeftWall_917 7 7 15.6 0.4 0 97.2 45
STRIP LeftWall_917 7 7 16 0.4 0 100.8 45
STRIP LeftWall_917 7 7 16.4 0.4 0 104.4 45
STRIP LeftWall_917 7 7 16.8 0.4 0 108 45
STRIP LeftWall_917 7 7 17.2 0.4 0 111.6 45
STRIP LeftWall_917 7 7 17.6 0.4 0 115.2 45
STRIP LeftWall_917 7 7 18 0.4 0 118.8 45
STRIP LeftWall_917 7 7 18.4 0.4 0 122.4 45
STRIP LeftWall_917 7 7 18.8 0.4 0 126 45
STRIP LeftWall_917 7 7 19.2 0.4 0 129.6 45
STRIP LeftWall_917 7 7 19.6 0.4 0 133.2 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 7 7 20 0.4 0 136.8 45
STRIP LeftWall_917 7 7 20.4 0.4 0 140.4 45
STRIP LeftWall_917 7 7 20.8 0.4 0 144 45
STRIP LeftWall_917 7 7 21.2 0.4 0 147.6 45
STRIP LeftWall_917 7 7 21.6 0.4 0 151.2 45
STRIP LeftWall_917 7 7 22 0.4 0 154.8 45
STRIP LeftWall_917 7 7 22.4 0.4 0 158.4 45
STRIP LeftWall_917 7 7 22.8 0.4 0 162 45
STRIP LeftWall_917 7 7 23.2 0.4 0 165.6 45
STRIP LeftWall_917 7 7 23.6 0.4 0 169.2 45
STRIP LeftWall_917 7 7 24 0.4 0 172.8 45
STRIP LeftWall_917 7 7 24.4 0.4 0 176.4 45
STRIP LeftWall_917 7 7 24.8 0.4 0 180 45
STRIP LeftWall_917 7 7 25.2 0.4 0 183.6 45
STRIP LeftWall_917 7 7 25.6 0.4 0 187.2 45
STRIP LeftWall_917 7 7 26 0.4 0 190.8 45
STRIP LeftWall_917 7 7 26.4 0.4 0 194.4 45
STRIP LeftWall_917 7 7 26.8 0.4 0 198 45
STRIP LeftWall_917 7 7 27.2 0.4 0 201.6 45
STRIP LeftWall_917 7 7 27.6 0.4 0 205.2 45
STRIP LeftWall_917 7 7 28 0.4 0 208.8 45
STRIP LeftWall_917 7 7 28.4 0.4 0 212.4 45
STRIP LeftWall_917 7 7 28.8 0.4 0 216 45
STRIP LeftWall_917 7 7 29.2 0.4 0 219.6 45
STRIP LeftWall_917 7 7 29.6 0.4 0 223.2 45
STRIP LeftWall_917 7 7 30 0.4 0 226.8 45
STRIP LeftWall_917 7 7 30.4 0.4 0 230.4 45
STRIP LeftWall_917 7 7 30.8 0.4 0 234 45
STRIP LeftWall_917 7 7 31.2 0.4 0 237.6 45
STRIP LeftWall_917 7 7 31.6 0.4 0 241.2 45
STRIP LeftWall_917 7 7 32 0.4 0 244.8 45
STRIP LeftWall_917 7 7 32.4 0.4 0 248.4 45
STRIP LeftWall_917 7 7 32.8 0.4 0 252 45
STRIP LeftWall_917 7 7 33.2 0.4 0 255.6 45
STRIP LeftWall_917 7 7 33.6 0.4 0 259.2 45
STRIP LeftWall_917 7 7 34 0.4 0 262.8 45
STRIP LeftWall_917 7 7 34.4 0.4 0 266.4 45
STRIP LeftWall_917 8 8 4.8 0.4 0 0.45 45
STRIP LeftWall_917 8 8 5.2 0.4 0 3.6 45
STRIP LeftWall_917 8 8 5.6 0.4 0 7.2 45
STRIP LeftWall_917 8 8 6 0.4 0 10.8 45
STRIP LeftWall_917 8 8 6.4 0.4 0 14.4 45
STRIP LeftWall_917 8 8 6.8 0.4 0 18 45
STRIP LeftWall_917 8 8 7.2 0.4 0 21.6 45
STRIP LeftWall_917 8 8 7.6 0.4 0 25.2 45
STRIP LeftWall_917 8 8 8 0.4 0 28.8 45
STRIP LeftWall_917 8 8 8.4 0.4 0 32.4 45
STRIP LeftWall_917 8 8 8.8 0.4 0 36 45
STRIP LeftWall_917 8 8 9.2 0.4 0 39.6 45
STRIP LeftWall_917 8 8 9.6 0.4 0 43.2 45
STRIP LeftWall_917 8 8 10 0.4 0 46.8 45
STRIP LeftWall_917 8 8 10.4 0.4 0 50.4 45
STRIP LeftWall_917 8 8 10.8 0.4 0 54 45
STRIP LeftWall_917 8 8 11.2 0.4 0 57.6 45
STRIP LeftWall_917 8 8 11.6 0.4 0 61.2 45
STRIP LeftWall_917 8 8 12 0.4 0 64.8 45
STRIP LeftWall_917 8 8 12.4 0.4 0 68.4 45
STRIP LeftWall_917 8 8 12.8 0.4 0 72 45
STRIP LeftWall_917 8 8 13.2 0.4 0 75.6 45
STRIP LeftWall_917 8 8 13.6 0.4 0 79.2 45
STRIP LeftWall_917 8 8 14 0.4 0 82.8 45
STRIP LeftWall_917 8 8 14.4 0.4 0 86.4 45
STRIP LeftWall_917 8 8 14.8 0.4 0 90 45
STRIP LeftWall_917 8 8 15.2 0.4 0 93.6 45
STRIP LeftWall_917 8 8 15.6 0.4 0 97.2 45
STRIP LeftWall_917 8 8 16 0.4 0 100.8 45
STRIP LeftWall_917 8 8 16.4 0.4 0 104.4 45
STRIP LeftWall_917 8 8 16.8 0.4 0 108 45
STRIP LeftWall_917 8 8 17.2 0.4 0 111.6 45
STRIP LeftWall_917 8 8 17.6 0.4 0 115.2 45
STRIP LeftWall_917 8 8 18 0.4 0 118.8 45
STRIP LeftWall_917 8 8 18.4 0.4 0 122.4 45
STRIP LeftWall_917 8 8 18.8 0.4 0 126 45
STRIP LeftWall_917 8 8 19.2 0.4 0 129.6 45
STRIP LeftWall_917 8 8 19.6 0.4 0 133.2 45
STRIP LeftWall_917 8 8 20 0.4 0 136.8 45
STRIP LeftWall_917 8 8 20.4 0.4 0 140.4 45
STRIP LeftWall_917 8 8 20.8 0.4 0 144 45
STRIP LeftWall_917 8 8 21.2 0.4 0 147.6 45
STRIP LeftWall_917 8 8 21.6 0.4 0 151.2 45
STRIP LeftWall_917 8 8 22 0.4 0 154.8 45
STRIP LeftWall_917 8 8 22.4 0.4 0 158.4 45
STRIP LeftWall_917 8 8 22.8 0.4 0 162 45
STRIP LeftWall_917 8 8 23.2 0.4 0 165.6 45
STRIP LeftWall_917 8 8 23.6 0.4 0 169.2 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 8 8 24 0.4 0 172.8 45
STRIP LeftWall_917 8 8 24.4 0.4 0 176.4 45
STRIP LeftWall_917 8 8 24.8 0.4 0 180 45
STRIP LeftWall_917 8 8 25.2 0.4 0 183.6 45
STRIP LeftWall_917 8 8 25.6 0.4 0 187.2 45
STRIP LeftWall_917 8 8 26 0.4 0 190.8 45
STRIP LeftWall_917 8 8 26.4 0.4 0 194.4 45
STRIP LeftWall_917 8 8 26.8 0.4 0 198 45
STRIP LeftWall_917 8 8 27.2 0.4 0 201.6 45
STRIP LeftWall_917 8 8 27.6 0.4 0 205.2 45
STRIP LeftWall_917 8 8 28 0.4 0 208.8 45
STRIP LeftWall_917 8 8 28.4 0.4 0 212.4 45
STRIP LeftWall_917 8 8 28.8 0.4 0 216 45
STRIP LeftWall_917 8 8 29.2 0.4 0 219.6 45
STRIP LeftWall_917 8 8 29.6 0.4 0 223.2 45
STRIP LeftWall_917 8 8 30 0.4 0 226.8 45
STRIP LeftWall_917 8 8 30.4 0.4 0 230.4 45
STRIP LeftWall_917 8 8 30.8 0.4 0 234 45
STRIP LeftWall_917 8 8 31.2 0.4 0 237.6 45
STRIP LeftWall_917 8 8 31.6 0.4 0 241.2 45
STRIP LeftWall_917 8 8 32 0.4 0 244.8 45
STRIP LeftWall_917 8 8 32.4 0.4 0 248.4 45
STRIP LeftWall_917 8 8 32.8 0.4 0 252 45
STRIP LeftWall_917 8 8 33.2 0.4 0 255.6 45
STRIP LeftWall_917 8 8 33.6 0.4 0 259.2 45
STRIP LeftWall_917 8 8 34 0.4 0 262.8 45
STRIP LeftWall_917 8 8 34.4 0.4 0 266.4 45
STRIP LeftWall_917 9 9 4.8 0.4 0 0.45 45
STRIP LeftWall_917 9 9 5.2 0.4 0 3.6 45
STRIP LeftWall_917 9 9 5.6 0.4 0 7.2 45
STRIP LeftWall_917 9 9 6 0.4 0 10.8 45
STRIP LeftWall_917 9 9 6.4 0.4 0 14.4 45
STRIP LeftWall_917 9 9 6.8 0.4 0 18 45
STRIP LeftWall_917 9 9 7.2 0.4 0 21.6 45
STRIP LeftWall_917 9 9 7.6 0.4 0 25.2 45
STRIP LeftWall_917 9 9 8 0.4 0 28.8 45
STRIP LeftWall_917 9 9 8.4 0.4 0 32.4 45
STRIP LeftWall_917 9 9 8.8 0.4 0 36 45
STRIP LeftWall_917 9 9 9.2 0.4 0 39.6 45
STRIP LeftWall_917 9 9 9.6 0.4 0 43.2 45
STRIP LeftWall_917 9 9 10 0.4 0 46.8 45
STRIP LeftWall_917 9 9 10.4 0.4 0 50.4 45
STRIP LeftWall_917 9 9 10.8 0.4 0 54 45
STRIP LeftWall_917 9 9 11.2 0.4 0 57.6 45
STRIP LeftWall_917 9 9 11.6 0.4 0 61.2 45
STRIP LeftWall_917 9 9 12 0.4 0 64.8 45
STRIP LeftWall_917 9 9 12.4 0.4 0 68.4 45
STRIP LeftWall_917 9 9 12.8 0.4 0 72 45
STRIP LeftWall_917 9 9 13.2 0.4 0 75.6 45
STRIP LeftWall_917 9 9 13.6 0.4 0 79.2 45
STRIP LeftWall_917 9 9 14 0.4 0 82.8 45
STRIP LeftWall_917 9 9 14.4 0.4 0 86.4 45
STRIP LeftWall_917 9 9 14.8 0.4 0 90 45
STRIP LeftWall_917 9 9 15.2 0.4 0 93.6 45
STRIP LeftWall_917 9 9 15.6 0.4 0 97.2 45
STRIP LeftWall_917 9 9 16 0.4 0 100.8 45
STRIP LeftWall_917 9 9 16.4 0.4 0 104.4 45
STRIP LeftWall_917 9 9 16.8 0.4 0 108 45
STRIP LeftWall_917 9 9 17.2 0.4 0 111.6 45
STRIP LeftWall_917 9 9 17.6 0.4 0 115.2 45
STRIP LeftWall_917 9 9 18 0.4 0 118.8 45
STRIP LeftWall_917 9 9 18.4 0.4 0 122.4 45
STRIP LeftWall_917 9 9 18.8 0.4 0 126 45
STRIP LeftWall_917 9 9 19.2 0.4 0 129.6 45
STRIP LeftWall_917 9 9 19.6 0.4 0 133.2 45
STRIP LeftWall_917 9 9 20 0.4 0 136.8 45
STRIP LeftWall_917 9 9 20.4 0.4 0 140.4 45
STRIP LeftWall_917 9 9 20.8 0.4 0 144 45
STRIP LeftWall_917 9 9 21.2 0.4 0 147.6 45
STRIP LeftWall_917 9 9 21.6 0.4 0 151.2 45
STRIP LeftWall_917 9 9 22 0.4 0 154.8 45
STRIP LeftWall_917 9 9 22.4 0.4 0 158.4 45
STRIP LeftWall_917 9 9 22.8 0.4 0 162 45
STRIP LeftWall_917 9 9 23.2 0.4 0 165.6 45
STRIP LeftWall_917 9 9 23.6 0.4 0 169.2 45
STRIP LeftWall_917 9 9 24 0.4 0 172.8 45
STRIP LeftWall_917 9 9 24.4 0.4 0 176.4 45
STRIP LeftWall_917 9 9 24.8 0.4 0 180 45
STRIP LeftWall_917 9 9 25.2 0.4 0 183.6 45
STRIP LeftWall_917 9 9 25.6 0.4 0 187.2 45
STRIP LeftWall_917 9 9 26 0.4 0 190.8 45
STRIP LeftWall_917 9 9 26.4 0.4 0 194.4 45
STRIP LeftWall_917 9 9 26.8 0.4 0 198 45
STRIP LeftWall_917 9 9 27.2 0.4 0 201.6 45
STRIP LeftWall_917 9 9 27.6 0.4 0 205.2 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 9 9 28 0.4 0 208.8 45
STRIP LeftWall_917 9 9 28.4 0.4 0 212.4 45
STRIP LeftWall_917 9 9 28.8 0.4 0 216 45
STRIP LeftWall_917 9 9 29.2 0.4 0 219.6 45
STRIP LeftWall_917 9 9 29.6 0.4 0 223.2 45
STRIP LeftWall_917 9 9 30 0.4 0 226.8 45
STRIP LeftWall_917 9 9 30.4 0.4 0 230.4 45
STRIP LeftWall_917 9 9 30.8 0.4 0 234 45
STRIP LeftWall_917 9 9 31.2 0.4 0 237.6 45
STRIP LeftWall_917 9 9 31.6 0.4 0 241.2 45
STRIP LeftWall_917 9 9 32 0.4 0 244.8 45
STRIP LeftWall_917 9 9 32.4 0.4 0 248.4 45
STRIP LeftWall_917 9 9 32.8 0.4 0 252 45
STRIP LeftWall_917 9 9 33.2 0.4 0 255.6 45
STRIP LeftWall_917 9 9 33.6 0.4 0 259.2 45
STRIP LeftWall_917 9 9 34 0.4 0 262.8 45
STRIP LeftWall_917 9 9 34.4 0.4 0 266.4 45
STRIP LeftWall_917 10 10 4.8 0.4 0 0.45 45
STRIP LeftWall_917 10 10 5.2 0.4 0 3.6 45
STRIP LeftWall_917 10 10 5.6 0.4 0 7.2 45
STRIP LeftWall_917 10 10 6 0.4 0 10.8 45
STRIP LeftWall_917 10 10 6.4 0.4 0 14.4 45
STRIP LeftWall_917 10 10 6.8 0.4 0 18 45
STRIP LeftWall_917 10 10 7.2 0.4 0 21.6 45
STRIP LeftWall_917 10 10 7.6 0.4 0 25.2 45
STRIP LeftWall_917 10 10 8 0.4 0 28.8 45
STRIP LeftWall_917 10 10 8.4 0.4 0 32.4 45
STRIP LeftWall_917 10 10 8.8 0.4 0 36 45
STRIP LeftWall_917 10 10 9.2 0.4 0 39.6 45
STRIP LeftWall_917 10 10 9.6 0.4 0 43.2 45
STRIP LeftWall_917 10 10 10 0.4 0 46.8 45
STRIP LeftWall_917 10 10 10.4 0.4 0 50.4 45
STRIP LeftWall_917 10 10 10.8 0.4 0 54 45
STRIP LeftWall_917 10 10 11.2 0.4 0 57.6 45
STRIP LeftWall_917 10 10 11.6 0.4 0 61.2 45
STRIP LeftWall_917 10 10 12 0.4 0 64.8 45
STRIP LeftWall_917 10 10 12.4 0.4 0 68.4 45
STRIP LeftWall_917 10 10 12.8 0.4 0 72 45
STRIP LeftWall_917 10 10 13.2 0.4 0 75.6 45
STRIP LeftWall_917 10 10 13.6 0.4 0 79.2 45
STRIP LeftWall_917 10 10 14 0.4 0 82.8 45
STRIP LeftWall_917 10 10 14.4 0.4 0 86.4 45
STRIP LeftWall_917 10 10 14.8 0.4 0 90 45
STRIP LeftWall_917 10 10 15.2 0.4 0 93.6 45
STRIP LeftWall_917 10 10 15.6 0.4 0 97.2 45
STRIP LeftWall_917 10 10 16 0.4 0 100.8 45
STRIP LeftWall_917 10 10 16.4 0.4 0 104.4 45
STRIP LeftWall_917 10 10 16.8 0.4 0 108 45
STRIP LeftWall_917 10 10 17.2 0.4 0 111.6 45
STRIP LeftWall_917 10 10 17.6 0.4 0 115.2 45
STRIP LeftWall_917 10 10 18 0.4 0 118.8 45
STRIP LeftWall_917 10 10 18.4 0.4 0 122.4 45
STRIP LeftWall_917 10 10 18.8 0.4 0 126 45
STRIP LeftWall_917 10 10 19.2 0.4 0 129.6 45
STRIP LeftWall_917 10 10 19.6 0.4 0 133.2 45
STRIP LeftWall_917 10 10 20 0.4 0 136.8 45
STRIP LeftWall_917 10 10 20.4 0.4 0 140.4 45
STRIP LeftWall_917 10 10 20.8 0.4 0 144 45
STRIP LeftWall_917 10 10 21.2 0.4 0 147.6 45
STRIP LeftWall_917 10 10 21.6 0.4 0 151.2 45
STRIP LeftWall_917 10 10 22 0.4 0 154.8 45
STRIP LeftWall_917 10 10 22.4 0.4 0 158.4 45
STRIP LeftWall_917 10 10 22.8 0.4 0 162 45
STRIP LeftWall_917 10 10 23.2 0.4 0 165.6 45
STRIP LeftWall_917 10 10 23.6 0.4 0 169.2 45
STRIP LeftWall_917 10 10 24 0.4 0 172.8 45
STRIP LeftWall_917 10 10 24.4 0.4 0 176.4 45
STRIP LeftWall_917 10 10 24.8 0.4 0 180 45
STRIP LeftWall_917 10 10 25.2 0.4 0 183.6 45
STRIP LeftWall_917 10 10 25.6 0.4 0 187.2 45
STRIP LeftWall_917 10 10 26 0.4 0 190.8 45
STRIP LeftWall_917 10 10 26.4 0.4 0 194.4 45
STRIP LeftWall_917 10 10 26.8 0.4 0 198 45
STRIP LeftWall_917 10 10 27.2 0.4 0 201.6 45
STRIP LeftWall_917 10 10 27.6 0.4 0 205.2 45
STRIP LeftWall_917 10 10 28 0.4 0 208.8 45
STRIP LeftWall_917 10 10 28.4 0.4 0 212.4 45
STRIP LeftWall_917 10 10 28.8 0.4 0 216 45
STRIP LeftWall_917 10 10 29.2 0.4 0 219.6 45
STRIP LeftWall_917 10 10 29.6 0.4 0 223.2 45
STRIP LeftWall_917 10 10 30 0.4 0 226.8 45
STRIP LeftWall_917 10 10 30.4 0.4 0 230.4 45
STRIP LeftWall_917 10 10 30.8 0.4 0 234 45
STRIP LeftWall_917 10 10 31.2 0.4 0 237.6 45
STRIP LeftWall_917 10 10 31.6 0.4 0 241.2 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 10 10 32 0.4 0 244.8 45
STRIP LeftWall_917 10 10 32.4 0.4 0 248.4 45
STRIP LeftWall_917 10 10 32.8 0.4 0 252 45
STRIP LeftWall_917 10 10 33.2 0.4 0 255.6 45
STRIP LeftWall_917 10 10 33.6 0.4 0 259.2 45
STRIP LeftWall_917 10 10 34 0.4 0 262.8 45
STRIP LeftWall_917 10 10 34.4 0.4 0 266.4 45
STRIP LeftWall_917 11 11 4.8 0.4 0 0.45 45
STRIP LeftWall_917 11 11 5.2 0.4 0 3.6 45
STRIP LeftWall_917 11 11 5.6 0.4 0 7.2 45
STRIP LeftWall_917 11 11 6 0.4 0 10.8 45
STRIP LeftWall_917 11 11 6.4 0.4 0 14.4 45
STRIP LeftWall_917 11 11 6.8 0.4 0 18 45
STRIP LeftWall_917 11 11 7.2 0.4 0 21.6 45
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STRIP LeftWall_917 11 11 8 0.4 0 28.8 45
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STRIP LeftWall_917 11 11 11.2 0.4 0 57.6 45
STRIP LeftWall_917 11 11 11.6 0.4 0 61.2 45
STRIP LeftWall_917 11 11 12 0.4 0 64.8 45
STRIP LeftWall_917 11 11 12.4 0.4 0 68.4 45
STRIP LeftWall_917 11 11 12.8 0.4 0 72 45
STRIP LeftWall_917 11 11 13.2 0.4 0 75.6 45
STRIP LeftWall_917 11 11 13.6 0.4 0 79.2 45
STRIP LeftWall_917 11 11 14 0.4 0 82.8 45
STRIP LeftWall_917 11 11 14.4 0.4 0 86.4 45
STRIP LeftWall_917 11 11 14.8 0.4 0 90 45
STRIP LeftWall_917 11 11 15.2 0.4 0 93.6 45
STRIP LeftWall_917 11 11 15.6 0.4 0 97.2 45
STRIP LeftWall_917 11 11 16 0.4 0 100.8 45
STRIP LeftWall_917 11 11 16.4 0.4 0 104.4 45
STRIP LeftWall_917 11 11 16.8 0.4 0 108 45
STRIP LeftWall_917 11 11 17.2 0.4 0 111.6 45
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STRIP LeftWall_917 11 11 19.2 0.4 0 129.6 45
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STRIP LeftWall_917 11 11 20.8 0.4 0 144 45
STRIP LeftWall_917 11 11 21.2 0.4 0 147.6 45
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STRIP LeftWall_917 11 11 22 0.4 0 154.8 45
STRIP LeftWall_917 11 11 22.4 0.4 0 158.4 45
STRIP LeftWall_917 11 11 22.8 0.4 0 162 45
STRIP LeftWall_917 11 11 23.2 0.4 0 165.6 45
STRIP LeftWall_917 11 11 23.6 0.4 0 169.2 45
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STRIP LeftWall_917 11 11 24.4 0.4 0 176.4 45
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STRIP LeftWall_917 11 11 25.6 0.4 0 187.2 45
STRIP LeftWall_917 11 11 26 0.4 0 190.8 45
STRIP LeftWall_917 11 11 26.4 0.4 0 194.4 45
STRIP LeftWall_917 11 11 26.8 0.4 0 198 45
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STRIP LeftWall_917 11 11 27.6 0.4 0 205.2 45
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STRIP LeftWall_917 11 11 29.6 0.4 0 223.2 45
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STRIP LeftWall_917 11 11 30.4 0.4 0 230.4 45
STRIP LeftWall_917 11 11 30.8 0.4 0 234 45
STRIP LeftWall_917 11 11 31.2 0.4 0 237.6 45
STRIP LeftWall_917 11 11 31.6 0.4 0 241.2 45
STRIP LeftWall_917 11 11 32 0.4 0 244.8 45
STRIP LeftWall_917 11 11 32.4 0.4 0 248.4 45
STRIP LeftWall_917 11 11 32.8 0.4 0 252 45
STRIP LeftWall_917 11 11 33.2 0.4 0 255.6 45
STRIP LeftWall_917 11 11 33.6 0.4 0 259.2 45
STRIP LeftWall_917 11 11 34 0.4 0 262.8 45
STRIP LeftWall_917 11 11 34.4 0.4 0 266.4 45

* 7: Defining Steps

STEP Stepn.0Condizioniiiniziali_924

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

```
CHANGE Coltredestritica_2_905_L_0 U-FRICT=24.791 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-FRICT=24.791 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KA=0.409 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KP=3.185 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KA=0.409 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KP=3.185 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-FRICT=29.256 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-FRICT=29.256 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KA=0.343 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KP=4.102 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KA=0.343 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KP=4.102 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-COHE=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-ADHES=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-COHE=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-COHE=80 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-COHE=80 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-ADHES=0 LeftWall_917
SETWALL LeftWall_917
GEOM 0 0
SURCHARGE 0 0 0 0
WATER -30 0 -13 0 0
ADD LeftWallElement_1092
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.1Fasediscavol-Fase1_935
SETWALL LeftWall_917
GEOM 0 -3.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.2Fasediscavol-Fase2_953
SETWALL LeftWall_917
GEOM 0 -3.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -13 0 0
ADD Tirantiesistenti+587.00_965
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.3Fasediscavo2-Fase1_973
SETWALL LeftWall_917
GEOM 0 -6.25
SURCHARGE 0 0 0 -6.25
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.4Fasediscavo2-Fase2_991
SETWALL LeftWall_917
GEOM 0 -6.25
SURCHARGE 0 0 0 -6.25
WATER -30 0 -13 0 0
ADD Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.5Fasefinaldiscavoes_1011
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.6Primotirantenuovo_1029
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
ADD TirantinuoviT3_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.7Secondotirantenuovo_1049
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
ADD TirantinuoviT1_3735
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:




```
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage8Rilasciotirantiesist_3737
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
REMOVE Tirantiesistenti+587.00_965 Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage9Scavodiprogetto_17297
SETWALL LeftWall_917
GEOM 0 -10.5
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage10Sisma_5719
SETWALL LeftWall_917
GEOM 0 -10.5
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP
```

10.5 Design Assumption : NTC2018: SISMICA STR - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: NTC2018: SISMICA STR
* Time:mercoledì 14 dicembre 2022 10:28:18
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_917 0 -13 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_917 -13 0 1 0
SOIL 0_R LeftWall_917 -13 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Coltredetritica_2_905_L_0)
*
LDATA Coltredetritica_2_905_L_0 30 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 18 10 10
PERMEABILITY 1E-05
RESISTANCE 0 30 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 30000 48000
ENDL
*
* Soil Profile (Marnaarenacea_8_906_L_0)
*
LDATA Marnaarenacea_8_906_L_0 -3 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 21 13 10
PERMEABILITY 0.0001
RESISTANCE 100 35 0 0 0
TZDATA LINEAR 20000 0 30 0.5 0
KSCALE 0 0
YOUNG 1E+06 1.6E+06
ENDL

* 5: Defining structural materials
* Rebar material: 54 Name=Strands 270 ksi E=200100000 kPa
MATERIAL Strands270ksi_54 2.001E+08
* Concrete material: 1093 Name=C20/25 E=29962000 kPa
MATERIAL C2025_1093 2.9962E+07
* Steel material: 43 Name=Fe510 E=206000200 kPa
MATERIAL Fe510_43 2.06E+08
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later
BEAM LeftWallElement_1092 LeftWall_917 -13 0 Fe510_43 0.080792 0.018495 4.3946E-05 1.4241 00 00 0

* 6.2: Supports
WIRE Tirantiesistenti+587.00_965 LeftWall_917 -3 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+584.00_1003 LeftWall_917 -6 Strands270ksi_54 1.9841E-05 62.5 15 0 0
WIRE TirantinuoviT3_3643 LeftWall_917 -8 Strands270ksi_54 1.9501E-05 62.5 15 0 0
WIRE TirantinuoviT1_3735 LeftWall_917 -1 Strands270ksi_54 1.611E-05 62.5 15 0 0

* 6.3: Strips

* (slope contribution)
STRIP LeftWall_917 1 1 4.8 0.4 0 0.45 45
STRIP LeftWall_917 1 1 5.2 0.4 0 3.6 45
STRIP LeftWall_917 1 1 5.6 0.4 0 7.2 45
STRIP LeftWall_917 1 1 6 0.4 0 10.8 45
STRIP LeftWall_917 1 1 6.4 0.4 0 14.4 45
STRIP LeftWall_917 1 1 6.8 0.4 0 18 45
STRIP LeftWall_917 1 1 7.2 0.4 0 21.6 45
STRIP LeftWall_917 1 1 7.6 0.4 0 25.2 45
STRIP LeftWall_917 1 1 8 0.4 0 28.8 45
STRIP LeftWall_917 1 1 8.4 0.4 0 32.4 45
STRIP LeftWall_917 1 1 8.8 0.4 0 36 45
STRIP LeftWall_917 1 1 9.2 0.4 0 39.6 45
STRIP LeftWall_917 1 1 9.6 0.4 0 43.2 45
STRIP LeftWall_917 1 1 10 0.4 0 46.8 45
STRIP LeftWall_917 1 1 10.4 0.4 0 50.4 45
STRIP LeftWall_917 1 1 10.8 0.4 0 54 45
STRIP LeftWall_917 1 1 11.2 0.4 0 57.6 45
STRIP LeftWall_917 1 1 11.6 0.4 0 61.2 45
STRIP LeftWall_917 1 1 12 0.4 0 64.8 45
STRIP LeftWall_917 1 1 12.4 0.4 0 68.4 45
STRIP LeftWall_917 1 1 12.8 0.4 0 72 45
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STRIP LeftWall_917 1 1 18.8 0.4 0 126 45
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STRIP LeftWall_917 1 1 22 0.4 0 154.8 45
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STRIP LeftWall_917 1 1 24 0.4 0 172.8 45
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STRIP LeftWall_917 1 1 25.2 0.4 0 183.6 45
STRIP LeftWall_917 1 1 25.6 0.4 0 187.2 45
STRIP LeftWall_917 1 1 26 0.4 0 190.8 45
STRIP LeftWall_917 1 1 26.4 0.4 0 194.4 45
STRIP LeftWall_917 1 1 26.8 0.4 0 198 45
STRIP LeftWall_917 1 1 27.2 0.4 0 201.6 45
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STRIP LeftWall_917 1 1 28.8 0.4 0 216 45
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STRIP LeftWall_917 1 1 30 0.4 0 226.8 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 1 1 30.4 0.4 0 230.4 45
STRIP LeftWall_917 1 1 30.8 0.4 0 234 45
STRIP LeftWall_917 1 1 31.2 0.4 0 237.6 45
STRIP LeftWall_917 1 1 31.6 0.4 0 241.2 45
STRIP LeftWall_917 1 1 32 0.4 0 244.8 45
STRIP LeftWall_917 1 1 32.4 0.4 0 248.4 45
STRIP LeftWall_917 1 1 32.8 0.4 0 252 45
STRIP LeftWall_917 1 1 33.2 0.4 0 255.6 45
STRIP LeftWall_917 1 1 33.6 0.4 0 259.2 45
STRIP LeftWall_917 1 1 34 0.4 0 262.8 45
STRIP LeftWall_917 1 1 34.4 0.4 0 266.4 45
STRIP LeftWall_917 2 2 4.8 0.4 0 0.45 45
STRIP LeftWall_917 2 2 5.2 0.4 0 3.6 45
STRIP LeftWall_917 2 2 5.6 0.4 0 7.2 45
STRIP LeftWall_917 2 2 6 0.4 0 10.8 45
STRIP LeftWall_917 2 2 6.4 0.4 0 14.4 45
STRIP LeftWall_917 2 2 6.8 0.4 0 18 45
STRIP LeftWall_917 2 2 7.2 0.4 0 21.6 45
STRIP LeftWall_917 2 2 7.6 0.4 0 25.2 45
STRIP LeftWall_917 2 2 8 0.4 0 28.8 45
STRIP LeftWall_917 2 2 8.4 0.4 0 32.4 45
STRIP LeftWall_917 2 2 8.8 0.4 0 36 45
STRIP LeftWall_917 2 2 9.2 0.4 0 39.6 45
STRIP LeftWall_917 2 2 9.6 0.4 0 43.2 45
STRIP LeftWall_917 2 2 10 0.4 0 46.8 45
STRIP LeftWall_917 2 2 10.4 0.4 0 50.4 45
STRIP LeftWall_917 2 2 10.8 0.4 0 54 45
STRIP LeftWall_917 2 2 11.2 0.4 0 57.6 45
STRIP LeftWall_917 2 2 11.6 0.4 0 61.2 45
STRIP LeftWall_917 2 2 12 0.4 0 64.8 45
STRIP LeftWall_917 2 2 12.4 0.4 0 68.4 45
STRIP LeftWall_917 2 2 12.8 0.4 0 72 45
STRIP LeftWall_917 2 2 13.2 0.4 0 75.6 45
STRIP LeftWall_917 2 2 13.6 0.4 0 79.2 45
STRIP LeftWall_917 2 2 14 0.4 0 82.8 45
STRIP LeftWall_917 2 2 14.4 0.4 0 86.4 45
STRIP LeftWall_917 2 2 14.8 0.4 0 90 45
STRIP LeftWall_917 2 2 15.2 0.4 0 93.6 45
STRIP LeftWall_917 2 2 15.6 0.4 0 97.2 45
STRIP LeftWall_917 2 2 16 0.4 0 100.8 45
STRIP LeftWall_917 2 2 16.4 0.4 0 104.4 45
STRIP LeftWall_917 2 2 16.8 0.4 0 108 45
STRIP LeftWall_917 2 2 17.2 0.4 0 111.6 45
STRIP LeftWall_917 2 2 17.6 0.4 0 115.2 45
STRIP LeftWall_917 2 2 18 0.4 0 118.8 45
STRIP LeftWall_917 2 2 18.4 0.4 0 122.4 45
STRIP LeftWall_917 2 2 18.8 0.4 0 126 45
STRIP LeftWall_917 2 2 19.2 0.4 0 129.6 45
STRIP LeftWall_917 2 2 19.6 0.4 0 133.2 45
STRIP LeftWall_917 2 2 20 0.4 0 136.8 45
STRIP LeftWall_917 2 2 20.4 0.4 0 140.4 45
STRIP LeftWall_917 2 2 20.8 0.4 0 144 45
STRIP LeftWall_917 2 2 21.2 0.4 0 147.6 45
STRIP LeftWall_917 2 2 21.6 0.4 0 151.2 45
STRIP LeftWall_917 2 2 22 0.4 0 154.8 45
STRIP LeftWall_917 2 2 22.4 0.4 0 158.4 45
STRIP LeftWall_917 2 2 22.8 0.4 0 162 45
STRIP LeftWall_917 2 2 23.2 0.4 0 165.6 45
STRIP LeftWall_917 2 2 23.6 0.4 0 169.2 45
STRIP LeftWall_917 2 2 24 0.4 0 172.8 45
STRIP LeftWall_917 2 2 24.4 0.4 0 176.4 45
STRIP LeftWall_917 2 2 24.8 0.4 0 180 45
STRIP LeftWall_917 2 2 25.2 0.4 0 183.6 45
STRIP LeftWall_917 2 2 25.6 0.4 0 187.2 45
STRIP LeftWall_917 2 2 26 0.4 0 190.8 45
STRIP LeftWall_917 2 2 26.4 0.4 0 194.4 45
STRIP LeftWall_917 2 2 26.8 0.4 0 198 45
STRIP LeftWall_917 2 2 27.2 0.4 0 201.6 45
STRIP LeftWall_917 2 2 27.6 0.4 0 205.2 45
STRIP LeftWall_917 2 2 28 0.4 0 208.8 45
STRIP LeftWall_917 2 2 28.4 0.4 0 212.4 45
STRIP LeftWall_917 2 2 28.8 0.4 0 216 45
STRIP LeftWall_917 2 2 29.2 0.4 0 219.6 45
STRIP LeftWall_917 2 2 29.6 0.4 0 223.2 45
STRIP LeftWall_917 2 2 30 0.4 0 226.8 45
STRIP LeftWall_917 2 2 30.4 0.4 0 230.4 45
STRIP LeftWall_917 2 2 30.8 0.4 0 234 45
STRIP LeftWall_917 2 2 31.2 0.4 0 237.6 45
STRIP LeftWall_917 2 2 31.6 0.4 0 241.2 45
STRIP LeftWall_917 2 2 32 0.4 0 244.8 45
STRIP LeftWall_917 2 2 32.4 0.4 0 248.4 45
STRIP LeftWall_917 2 2 32.8 0.4 0 252 45
STRIP LeftWall_917 2 2 33.2 0.4 0 255.6 45
STRIP LeftWall_917 2 2 33.6 0.4 0 259.2 45
STRIP LeftWall_917 2 2 34 0.4 0 262.8 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 2 2 34.4 0.4 0 266.4 45
STRIP LeftWall_917 3 3 4.8 0.4 0 0.45 45
STRIP LeftWall_917 3 3 5.2 0.4 0 3.6 45
STRIP LeftWall_917 3 3 5.6 0.4 0 7.2 45
STRIP LeftWall_917 3 3 6 0.4 0 10.8 45
STRIP LeftWall_917 3 3 6.4 0.4 0 14.4 45
STRIP LeftWall_917 3 3 6.8 0.4 0 18 45
STRIP LeftWall_917 3 3 7.2 0.4 0 21.6 45
STRIP LeftWall_917 3 3 7.6 0.4 0 25.2 45
STRIP LeftWall_917 3 3 8 0.4 0 28.8 45
STRIP LeftWall_917 3 3 8.4 0.4 0 32.4 45
STRIP LeftWall_917 3 3 8.8 0.4 0 36 45
STRIP LeftWall_917 3 3 9.2 0.4 0 39.6 45
STRIP LeftWall_917 3 3 9.6 0.4 0 43.2 45
STRIP LeftWall_917 3 3 10 0.4 0 46.8 45
STRIP LeftWall_917 3 3 10.4 0.4 0 50.4 45
STRIP LeftWall_917 3 3 10.8 0.4 0 54 45
STRIP LeftWall_917 3 3 11.2 0.4 0 57.6 45
STRIP LeftWall_917 3 3 11.6 0.4 0 61.2 45
STRIP LeftWall_917 3 3 12 0.4 0 64.8 45
STRIP LeftWall_917 3 3 12.4 0.4 0 68.4 45
STRIP LeftWall_917 3 3 12.8 0.4 0 72 45
STRIP LeftWall_917 3 3 13.2 0.4 0 75.6 45
STRIP LeftWall_917 3 3 13.6 0.4 0 79.2 45
STRIP LeftWall_917 3 3 14 0.4 0 82.8 45
STRIP LeftWall_917 3 3 14.4 0.4 0 86.4 45
STRIP LeftWall_917 3 3 14.8 0.4 0 90 45
STRIP LeftWall_917 3 3 15.2 0.4 0 93.6 45
STRIP LeftWall_917 3 3 15.6 0.4 0 97.2 45
STRIP LeftWall_917 3 3 16 0.4 0 100.8 45
STRIP LeftWall_917 3 3 16.4 0.4 0 104.4 45
STRIP LeftWall_917 3 3 16.8 0.4 0 108 45
STRIP LeftWall_917 3 3 17.2 0.4 0 111.6 45
STRIP LeftWall_917 3 3 17.6 0.4 0 115.2 45
STRIP LeftWall_917 3 3 18 0.4 0 118.8 45
STRIP LeftWall_917 3 3 18.4 0.4 0 122.4 45
STRIP LeftWall_917 3 3 18.8 0.4 0 126 45
STRIP LeftWall_917 3 3 19.2 0.4 0 129.6 45
STRIP LeftWall_917 3 3 19.6 0.4 0 133.2 45
STRIP LeftWall_917 3 3 20 0.4 0 136.8 45
STRIP LeftWall_917 3 3 20.4 0.4 0 140.4 45
STRIP LeftWall_917 3 3 20.8 0.4 0 144 45
STRIP LeftWall_917 3 3 21.2 0.4 0 147.6 45
STRIP LeftWall_917 3 3 21.6 0.4 0 151.2 45
STRIP LeftWall_917 3 3 22 0.4 0 154.8 45
STRIP LeftWall_917 3 3 22.4 0.4 0 158.4 45
STRIP LeftWall_917 3 3 22.8 0.4 0 162 45
STRIP LeftWall_917 3 3 23.2 0.4 0 165.6 45
STRIP LeftWall_917 3 3 23.6 0.4 0 169.2 45
STRIP LeftWall_917 3 3 24 0.4 0 172.8 45
STRIP LeftWall_917 3 3 24.4 0.4 0 176.4 45
STRIP LeftWall_917 3 3 24.8 0.4 0 180 45
STRIP LeftWall_917 3 3 25.2 0.4 0 183.6 45
STRIP LeftWall_917 3 3 25.6 0.4 0 187.2 45
STRIP LeftWall_917 3 3 26 0.4 0 190.8 45
STRIP LeftWall_917 3 3 26.4 0.4 0 194.4 45
STRIP LeftWall_917 3 3 26.8 0.4 0 198 45
STRIP LeftWall_917 3 3 27.2 0.4 0 201.6 45
STRIP LeftWall_917 3 3 27.6 0.4 0 205.2 45
STRIP LeftWall_917 3 3 28 0.4 0 208.8 45
STRIP LeftWall_917 3 3 28.4 0.4 0 212.4 45
STRIP LeftWall_917 3 3 28.8 0.4 0 216 45
STRIP LeftWall_917 3 3 29.2 0.4 0 219.6 45
STRIP LeftWall_917 3 3 29.6 0.4 0 223.2 45
STRIP LeftWall_917 3 3 30 0.4 0 226.8 45
STRIP LeftWall_917 3 3 30.4 0.4 0 230.4 45
STRIP LeftWall_917 3 3 30.8 0.4 0 234 45
STRIP LeftWall_917 3 3 31.2 0.4 0 237.6 45
STRIP LeftWall_917 3 3 31.6 0.4 0 241.2 45
STRIP LeftWall_917 3 3 32 0.4 0 244.8 45
STRIP LeftWall_917 3 3 32.4 0.4 0 248.4 45
STRIP LeftWall_917 3 3 32.8 0.4 0 252 45
STRIP LeftWall_917 3 3 33.2 0.4 0 255.6 45
STRIP LeftWall_917 3 3 33.6 0.4 0 259.2 45
STRIP LeftWall_917 3 3 34 0.4 0 262.8 45
STRIP LeftWall_917 3 3 34.4 0.4 0 266.4 45
STRIP LeftWall_917 4 4 4.8 0.4 0 0.45 45
STRIP LeftWall_917 4 4 5.2 0.4 0 3.6 45
STRIP LeftWall_917 4 4 5.6 0.4 0 7.2 45
STRIP LeftWall_917 4 4 6 0.4 0 10.8 45
STRIP LeftWall_917 4 4 6.4 0.4 0 14.4 45
STRIP LeftWall_917 4 4 6.8 0.4 0 18 45
STRIP LeftWall_917 4 4 7.2 0.4 0 21.6 45
STRIP LeftWall_917 4 4 7.6 0.4 0 25.2 45
STRIP LeftWall_917 4 4 8 0.4 0 28.8 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 4 4 8.4 0.4 0 32.4 45
STRIP LeftWall_917 4 4 8.8 0.4 0 36 45
STRIP LeftWall_917 4 4 9.2 0.4 0 39.6 45
STRIP LeftWall_917 4 4 9.6 0.4 0 43.2 45
STRIP LeftWall_917 4 4 10 0.4 0 46.8 45
STRIP LeftWall_917 4 4 10.4 0.4 0 50.4 45
STRIP LeftWall_917 4 4 10.8 0.4 0 54 45
STRIP LeftWall_917 4 4 11.2 0.4 0 57.6 45
STRIP LeftWall_917 4 4 11.6 0.4 0 61.2 45
STRIP LeftWall_917 4 4 12 0.4 0 64.8 45
STRIP LeftWall_917 4 4 12.4 0.4 0 68.4 45
STRIP LeftWall_917 4 4 12.8 0.4 0 72 45
STRIP LeftWall_917 4 4 13.2 0.4 0 75.6 45
STRIP LeftWall_917 4 4 13.6 0.4 0 79.2 45
STRIP LeftWall_917 4 4 14 0.4 0 82.8 45
STRIP LeftWall_917 4 4 14.4 0.4 0 86.4 45
STRIP LeftWall_917 4 4 14.8 0.4 0 90 45
STRIP LeftWall_917 4 4 15.2 0.4 0 93.6 45
STRIP LeftWall_917 4 4 15.6 0.4 0 97.2 45
STRIP LeftWall_917 4 4 16 0.4 0 100.8 45
STRIP LeftWall_917 4 4 16.4 0.4 0 104.4 45
STRIP LeftWall_917 4 4 16.8 0.4 0 108 45
STRIP LeftWall_917 4 4 17.2 0.4 0 111.6 45
STRIP LeftWall_917 4 4 17.6 0.4 0 115.2 45
STRIP LeftWall_917 4 4 18 0.4 0 118.8 45
STRIP LeftWall_917 4 4 18.4 0.4 0 122.4 45
STRIP LeftWall_917 4 4 18.8 0.4 0 126 45
STRIP LeftWall_917 4 4 19.2 0.4 0 129.6 45
STRIP LeftWall_917 4 4 19.6 0.4 0 133.2 45
STRIP LeftWall_917 4 4 20 0.4 0 136.8 45
STRIP LeftWall_917 4 4 20.4 0.4 0 140.4 45
STRIP LeftWall_917 4 4 20.8 0.4 0 144 45
STRIP LeftWall_917 4 4 21.2 0.4 0 147.6 45
STRIP LeftWall_917 4 4 21.6 0.4 0 151.2 45
STRIP LeftWall_917 4 4 22 0.4 0 154.8 45
STRIP LeftWall_917 4 4 22.4 0.4 0 158.4 45
STRIP LeftWall_917 4 4 22.8 0.4 0 162 45
STRIP LeftWall_917 4 4 23.2 0.4 0 165.6 45
STRIP LeftWall_917 4 4 23.6 0.4 0 169.2 45
STRIP LeftWall_917 4 4 24 0.4 0 172.8 45
STRIP LeftWall_917 4 4 24.4 0.4 0 176.4 45
STRIP LeftWall_917 4 4 24.8 0.4 0 180 45
STRIP LeftWall_917 4 4 25.2 0.4 0 183.6 45
STRIP LeftWall_917 4 4 25.6 0.4 0 187.2 45
STRIP LeftWall_917 4 4 26 0.4 0 190.8 45
STRIP LeftWall_917 4 4 26.4 0.4 0 194.4 45
STRIP LeftWall_917 4 4 26.8 0.4 0 198 45
STRIP LeftWall_917 4 4 27.2 0.4 0 201.6 45
STRIP LeftWall_917 4 4 27.6 0.4 0 205.2 45
STRIP LeftWall_917 4 4 28 0.4 0 208.8 45
STRIP LeftWall_917 4 4 28.4 0.4 0 212.4 45
STRIP LeftWall_917 4 4 28.8 0.4 0 216 45
STRIP LeftWall_917 4 4 29.2 0.4 0 219.6 45
STRIP LeftWall_917 4 4 29.6 0.4 0 223.2 45
STRIP LeftWall_917 4 4 30 0.4 0 226.8 45
STRIP LeftWall_917 4 4 30.4 0.4 0 230.4 45
STRIP LeftWall_917 4 4 30.8 0.4 0 234 45
STRIP LeftWall_917 4 4 31.2 0.4 0 237.6 45
STRIP LeftWall_917 4 4 31.6 0.4 0 241.2 45
STRIP LeftWall_917 4 4 32 0.4 0 244.8 45
STRIP LeftWall_917 4 4 32.4 0.4 0 248.4 45
STRIP LeftWall_917 4 4 32.8 0.4 0 252 45
STRIP LeftWall_917 4 4 33.2 0.4 0 255.6 45
STRIP LeftWall_917 4 4 33.6 0.4 0 259.2 45
STRIP LeftWall_917 4 4 34 0.4 0 262.8 45
STRIP LeftWall_917 4 4 34.4 0.4 0 266.4 45
STRIP LeftWall_917 5 5 4.8 0.4 0 0.45 45
STRIP LeftWall_917 5 5 5.2 0.4 0 3.6 45
STRIP LeftWall_917 5 5 5.6 0.4 0 7.2 45
STRIP LeftWall_917 5 5 6 0.4 0 10.8 45
STRIP LeftWall_917 5 5 6.4 0.4 0 14.4 45
STRIP LeftWall_917 5 5 6.8 0.4 0 18 45
STRIP LeftWall_917 5 5 7.2 0.4 0 21.6 45
STRIP LeftWall_917 5 5 7.6 0.4 0 25.2 45
STRIP LeftWall_917 5 5 8 0.4 0 28.8 45
STRIP LeftWall_917 5 5 8.4 0.4 0 32.4 45
STRIP LeftWall_917 5 5 8.8 0.4 0 36 45
STRIP LeftWall_917 5 5 9.2 0.4 0 39.6 45
STRIP LeftWall_917 5 5 9.6 0.4 0 43.2 45
STRIP LeftWall_917 5 5 10 0.4 0 46.8 45
STRIP LeftWall_917 5 5 10.4 0.4 0 50.4 45
STRIP LeftWall_917 5 5 10.8 0.4 0 54 45
STRIP LeftWall_917 5 5 11.2 0.4 0 57.6 45
STRIP LeftWall_917 5 5 11.6 0.4 0 61.2 45
STRIP LeftWall_917 5 5 12 0.4 0 64.8 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 5 5 12.4 0.4 0 68.4 45
STRIP LeftWall_917 5 5 12.8 0.4 0 72 45
STRIP LeftWall_917 5 5 13.2 0.4 0 75.6 45
STRIP LeftWall_917 5 5 13.6 0.4 0 79.2 45
STRIP LeftWall_917 5 5 14 0.4 0 82.8 45
STRIP LeftWall_917 5 5 14.4 0.4 0 86.4 45
STRIP LeftWall_917 5 5 14.8 0.4 0 90 45
STRIP LeftWall_917 5 5 15.2 0.4 0 93.6 45
STRIP LeftWall_917 5 5 15.6 0.4 0 97.2 45
STRIP LeftWall_917 5 5 16 0.4 0 100.8 45
STRIP LeftWall_917 5 5 16.4 0.4 0 104.4 45
STRIP LeftWall_917 5 5 16.8 0.4 0 108 45
STRIP LeftWall_917 5 5 17.2 0.4 0 111.6 45
STRIP LeftWall_917 5 5 17.6 0.4 0 115.2 45
STRIP LeftWall_917 5 5 18 0.4 0 118.8 45
STRIP LeftWall_917 5 5 18.4 0.4 0 122.4 45
STRIP LeftWall_917 5 5 18.8 0.4 0 126 45
STRIP LeftWall_917 5 5 19.2 0.4 0 129.6 45
STRIP LeftWall_917 5 5 19.6 0.4 0 133.2 45
STRIP LeftWall_917 5 5 20 0.4 0 136.8 45
STRIP LeftWall_917 5 5 20.4 0.4 0 140.4 45
STRIP LeftWall_917 5 5 20.8 0.4 0 144 45
STRIP LeftWall_917 5 5 21.2 0.4 0 147.6 45
STRIP LeftWall_917 5 5 21.6 0.4 0 151.2 45
STRIP LeftWall_917 5 5 22 0.4 0 154.8 45
STRIP LeftWall_917 5 5 22.4 0.4 0 158.4 45
STRIP LeftWall_917 5 5 22.8 0.4 0 162 45
STRIP LeftWall_917 5 5 23.2 0.4 0 165.6 45
STRIP LeftWall_917 5 5 23.6 0.4 0 169.2 45
STRIP LeftWall_917 5 5 24 0.4 0 172.8 45
STRIP LeftWall_917 5 5 24.4 0.4 0 176.4 45
STRIP LeftWall_917 5 5 24.8 0.4 0 180 45
STRIP LeftWall_917 5 5 25.2 0.4 0 183.6 45
STRIP LeftWall_917 5 5 25.6 0.4 0 187.2 45
STRIP LeftWall_917 5 5 26 0.4 0 190.8 45
STRIP LeftWall_917 5 5 26.4 0.4 0 194.4 45
STRIP LeftWall_917 5 5 26.8 0.4 0 198 45
STRIP LeftWall_917 5 5 27.2 0.4 0 201.6 45
STRIP LeftWall_917 5 5 27.6 0.4 0 205.2 45
STRIP LeftWall_917 5 5 28 0.4 0 208.8 45
STRIP LeftWall_917 5 5 28.4 0.4 0 212.4 45
STRIP LeftWall_917 5 5 28.8 0.4 0 216 45
STRIP LeftWall_917 5 5 29.2 0.4 0 219.6 45
STRIP LeftWall_917 5 5 29.6 0.4 0 223.2 45
STRIP LeftWall_917 5 5 30 0.4 0 226.8 45
STRIP LeftWall_917 5 5 30.4 0.4 0 230.4 45
STRIP LeftWall_917 5 5 30.8 0.4 0 234 45
STRIP LeftWall_917 5 5 31.2 0.4 0 237.6 45
STRIP LeftWall_917 5 5 31.6 0.4 0 241.2 45
STRIP LeftWall_917 5 5 32 0.4 0 244.8 45
STRIP LeftWall_917 5 5 32.4 0.4 0 248.4 45
STRIP LeftWall_917 5 5 32.8 0.4 0 252 45
STRIP LeftWall_917 5 5 33.2 0.4 0 255.6 45
STRIP LeftWall_917 5 5 33.6 0.4 0 259.2 45
STRIP LeftWall_917 5 5 34 0.4 0 262.8 45
STRIP LeftWall_917 5 5 34.4 0.4 0 266.4 45
STRIP LeftWall_917 6 6 4.8 0.4 0 0.45 45
STRIP LeftWall_917 6 6 5.2 0.4 0 3.6 45
STRIP LeftWall_917 6 6 5.6 0.4 0 7.2 45
STRIP LeftWall_917 6 6 6 0.4 0 10.8 45
STRIP LeftWall_917 6 6 6.4 0.4 0 14.4 45
STRIP LeftWall_917 6 6 6.8 0.4 0 18 45
STRIP LeftWall_917 6 6 7.2 0.4 0 21.6 45
STRIP LeftWall_917 6 6 7.6 0.4 0 25.2 45
STRIP LeftWall_917 6 6 8 0.4 0 28.8 45
STRIP LeftWall_917 6 6 8.4 0.4 0 32.4 45
STRIP LeftWall_917 6 6 8.8 0.4 0 36 45
STRIP LeftWall_917 6 6 9.2 0.4 0 39.6 45
STRIP LeftWall_917 6 6 9.6 0.4 0 43.2 45
STRIP LeftWall_917 6 6 10 0.4 0 46.8 45
STRIP LeftWall_917 6 6 10.4 0.4 0 50.4 45
STRIP LeftWall_917 6 6 10.8 0.4 0 54 45
STRIP LeftWall_917 6 6 11.2 0.4 0 57.6 45
STRIP LeftWall_917 6 6 11.6 0.4 0 61.2 45
STRIP LeftWall_917 6 6 12 0.4 0 64.8 45
STRIP LeftWall_917 6 6 12.4 0.4 0 68.4 45
STRIP LeftWall_917 6 6 12.8 0.4 0 72 45
STRIP LeftWall_917 6 6 13.2 0.4 0 75.6 45
STRIP LeftWall_917 6 6 13.6 0.4 0 79.2 45
STRIP LeftWall_917 6 6 14 0.4 0 82.8 45
STRIP LeftWall_917 6 6 14.4 0.4 0 86.4 45
STRIP LeftWall_917 6 6 14.8 0.4 0 90 45
STRIP LeftWall_917 6 6 15.2 0.4 0 93.6 45
STRIP LeftWall_917 6 6 15.6 0.4 0 97.2 45
STRIP LeftWall_917 6 6 16 0.4 0 100.8 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 6 6 16.4 0.4 0 104.4 45
STRIP LeftWall_917 6 6 16.8 0.4 0 108 45
STRIP LeftWall_917 6 6 17.2 0.4 0 111.6 45
STRIP LeftWall_917 6 6 17.6 0.4 0 115.2 45
STRIP LeftWall_917 6 6 18 0.4 0 118.8 45
STRIP LeftWall_917 6 6 18.4 0.4 0 122.4 45
STRIP LeftWall_917 6 6 18.8 0.4 0 126 45
STRIP LeftWall_917 6 6 19.2 0.4 0 129.6 45
STRIP LeftWall_917 6 6 19.6 0.4 0 133.2 45
STRIP LeftWall_917 6 6 20 0.4 0 136.8 45
STRIP LeftWall_917 6 6 20.4 0.4 0 140.4 45
STRIP LeftWall_917 6 6 20.8 0.4 0 144 45
STRIP LeftWall_917 6 6 21.2 0.4 0 147.6 45
STRIP LeftWall_917 6 6 21.6 0.4 0 151.2 45
STRIP LeftWall_917 6 6 22 0.4 0 154.8 45
STRIP LeftWall_917 6 6 22.4 0.4 0 158.4 45
STRIP LeftWall_917 6 6 22.8 0.4 0 162 45
STRIP LeftWall_917 6 6 23.2 0.4 0 165.6 45
STRIP LeftWall_917 6 6 23.6 0.4 0 169.2 45
STRIP LeftWall_917 6 6 24 0.4 0 172.8 45
STRIP LeftWall_917 6 6 24.4 0.4 0 176.4 45
STRIP LeftWall_917 6 6 24.8 0.4 0 180 45
STRIP LeftWall_917 6 6 25.2 0.4 0 183.6 45
STRIP LeftWall_917 6 6 25.6 0.4 0 187.2 45
STRIP LeftWall_917 6 6 26 0.4 0 190.8 45
STRIP LeftWall_917 6 6 26.4 0.4 0 194.4 45
STRIP LeftWall_917 6 6 26.8 0.4 0 198 45
STRIP LeftWall_917 6 6 27.2 0.4 0 201.6 45
STRIP LeftWall_917 6 6 27.6 0.4 0 205.2 45
STRIP LeftWall_917 6 6 28 0.4 0 208.8 45
STRIP LeftWall_917 6 6 28.4 0.4 0 212.4 45
STRIP LeftWall_917 6 6 28.8 0.4 0 216 45
STRIP LeftWall_917 6 6 29.2 0.4 0 219.6 45
STRIP LeftWall_917 6 6 29.6 0.4 0 223.2 45
STRIP LeftWall_917 6 6 30 0.4 0 226.8 45
STRIP LeftWall_917 6 6 30.4 0.4 0 230.4 45
STRIP LeftWall_917 6 6 30.8 0.4 0 234 45
STRIP LeftWall_917 6 6 31.2 0.4 0 237.6 45
STRIP LeftWall_917 6 6 31.6 0.4 0 241.2 45
STRIP LeftWall_917 6 6 32 0.4 0 244.8 45
STRIP LeftWall_917 6 6 32.4 0.4 0 248.4 45
STRIP LeftWall_917 6 6 32.8 0.4 0 252 45
STRIP LeftWall_917 6 6 33.2 0.4 0 255.6 45
STRIP LeftWall_917 6 6 33.6 0.4 0 259.2 45
STRIP LeftWall_917 6 6 34 0.4 0 262.8 45
STRIP LeftWall_917 6 6 34.4 0.4 0 266.4 45
STRIP LeftWall_917 7 7 4.8 0.4 0 0.45 45
STRIP LeftWall_917 7 7 5.2 0.4 0 3.6 45
STRIP LeftWall_917 7 7 5.6 0.4 0 7.2 45
STRIP LeftWall_917 7 7 6 0.4 0 10.8 45
STRIP LeftWall_917 7 7 6.4 0.4 0 14.4 45
STRIP LeftWall_917 7 7 6.8 0.4 0 18 45
STRIP LeftWall_917 7 7 7.2 0.4 0 21.6 45
STRIP LeftWall_917 7 7 7.6 0.4 0 25.2 45
STRIP LeftWall_917 7 7 8 0.4 0 28.8 45
STRIP LeftWall_917 7 7 8.4 0.4 0 32.4 45
STRIP LeftWall_917 7 7 8.8 0.4 0 36 45
STRIP LeftWall_917 7 7 9.2 0.4 0 39.6 45
STRIP LeftWall_917 7 7 9.6 0.4 0 43.2 45
STRIP LeftWall_917 7 7 10 0.4 0 46.8 45
STRIP LeftWall_917 7 7 10.4 0.4 0 50.4 45
STRIP LeftWall_917 7 7 10.8 0.4 0 54 45
STRIP LeftWall_917 7 7 11.2 0.4 0 57.6 45
STRIP LeftWall_917 7 7 11.6 0.4 0 61.2 45
STRIP LeftWall_917 7 7 12 0.4 0 64.8 45
STRIP LeftWall_917 7 7 12.4 0.4 0 68.4 45
STRIP LeftWall_917 7 7 12.8 0.4 0 72 45
STRIP LeftWall_917 7 7 13.2 0.4 0 75.6 45
STRIP LeftWall_917 7 7 13.6 0.4 0 79.2 45
STRIP LeftWall_917 7 7 14 0.4 0 82.8 45
STRIP LeftWall_917 7 7 14.4 0.4 0 86.4 45
STRIP LeftWall_917 7 7 14.8 0.4 0 90 45
STRIP LeftWall_917 7 7 15.2 0.4 0 93.6 45
STRIP LeftWall_917 7 7 15.6 0.4 0 97.2 45
STRIP LeftWall_917 7 7 16 0.4 0 100.8 45
STRIP LeftWall_917 7 7 16.4 0.4 0 104.4 45
STRIP LeftWall_917 7 7 16.8 0.4 0 108 45
STRIP LeftWall_917 7 7 17.2 0.4 0 111.6 45
STRIP LeftWall_917 7 7 17.6 0.4 0 115.2 45
STRIP LeftWall_917 7 7 18 0.4 0 118.8 45
STRIP LeftWall_917 7 7 18.4 0.4 0 122.4 45
STRIP LeftWall_917 7 7 18.8 0.4 0 126 45
STRIP LeftWall_917 7 7 19.2 0.4 0 129.6 45
STRIP LeftWall_917 7 7 19.6 0.4 0 133.2 45
STRIP LeftWall_917 7 7 20 0.4 0 136.8 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 7 7 20.4 0.4 0 140.4 45
STRIP LeftWall_917 7 7 20.8 0.4 0 144 45
STRIP LeftWall_917 7 7 21.2 0.4 0 147.6 45
STRIP LeftWall_917 7 7 21.6 0.4 0 151.2 45
STRIP LeftWall_917 7 7 22 0.4 0 154.8 45
STRIP LeftWall_917 7 7 22.4 0.4 0 158.4 45
STRIP LeftWall_917 7 7 22.8 0.4 0 162 45
STRIP LeftWall_917 7 7 23.2 0.4 0 165.6 45
STRIP LeftWall_917 7 7 23.6 0.4 0 169.2 45
STRIP LeftWall_917 7 7 24 0.4 0 172.8 45
STRIP LeftWall_917 7 7 24.4 0.4 0 176.4 45
STRIP LeftWall_917 7 7 24.8 0.4 0 180 45
STRIP LeftWall_917 7 7 25.2 0.4 0 183.6 45
STRIP LeftWall_917 7 7 25.6 0.4 0 187.2 45
STRIP LeftWall_917 7 7 26 0.4 0 190.8 45
STRIP LeftWall_917 7 7 26.4 0.4 0 194.4 45
STRIP LeftWall_917 7 7 26.8 0.4 0 198 45
STRIP LeftWall_917 7 7 27.2 0.4 0 201.6 45
STRIP LeftWall_917 7 7 27.6 0.4 0 205.2 45
STRIP LeftWall_917 7 7 28 0.4 0 208.8 45
STRIP LeftWall_917 7 7 28.4 0.4 0 212.4 45
STRIP LeftWall_917 7 7 28.8 0.4 0 216 45
STRIP LeftWall_917 7 7 29.2 0.4 0 219.6 45
STRIP LeftWall_917 7 7 29.6 0.4 0 223.2 45
STRIP LeftWall_917 7 7 30 0.4 0 226.8 45
STRIP LeftWall_917 7 7 30.4 0.4 0 230.4 45
STRIP LeftWall_917 7 7 30.8 0.4 0 234 45
STRIP LeftWall_917 7 7 31.2 0.4 0 237.6 45
STRIP LeftWall_917 7 7 31.6 0.4 0 241.2 45
STRIP LeftWall_917 7 7 32 0.4 0 244.8 45
STRIP LeftWall_917 7 7 32.4 0.4 0 248.4 45
STRIP LeftWall_917 7 7 32.8 0.4 0 252 45
STRIP LeftWall_917 7 7 33.2 0.4 0 255.6 45
STRIP LeftWall_917 7 7 33.6 0.4 0 259.2 45
STRIP LeftWall_917 7 7 34 0.4 0 262.8 45
STRIP LeftWall_917 7 7 34.4 0.4 0 266.4 45
STRIP LeftWall_917 8 8 4.8 0.4 0 0.45 45
STRIP LeftWall_917 8 8 5.2 0.4 0 3.6 45
STRIP LeftWall_917 8 8 5.6 0.4 0 7.2 45
STRIP LeftWall_917 8 8 6 0.4 0 10.8 45
STRIP LeftWall_917 8 8 6.4 0.4 0 14.4 45
STRIP LeftWall_917 8 8 6.8 0.4 0 18 45
STRIP LeftWall_917 8 8 7.2 0.4 0 21.6 45
STRIP LeftWall_917 8 8 7.6 0.4 0 25.2 45
STRIP LeftWall_917 8 8 8 0.4 0 28.8 45
STRIP LeftWall_917 8 8 8.4 0.4 0 32.4 45
STRIP LeftWall_917 8 8 8.8 0.4 0 36 45
STRIP LeftWall_917 8 8 9.2 0.4 0 39.6 45
STRIP LeftWall_917 8 8 9.6 0.4 0 43.2 45
STRIP LeftWall_917 8 8 10 0.4 0 46.8 45
STRIP LeftWall_917 8 8 10.4 0.4 0 50.4 45
STRIP LeftWall_917 8 8 10.8 0.4 0 54 45
STRIP LeftWall_917 8 8 11.2 0.4 0 57.6 45
STRIP LeftWall_917 8 8 11.6 0.4 0 61.2 45
STRIP LeftWall_917 8 8 12 0.4 0 64.8 45
STRIP LeftWall_917 8 8 12.4 0.4 0 68.4 45
STRIP LeftWall_917 8 8 12.8 0.4 0 72 45
STRIP LeftWall_917 8 8 13.2 0.4 0 75.6 45
STRIP LeftWall_917 8 8 13.6 0.4 0 79.2 45
STRIP LeftWall_917 8 8 14 0.4 0 82.8 45
STRIP LeftWall_917 8 8 14.4 0.4 0 86.4 45
STRIP LeftWall_917 8 8 14.8 0.4 0 90 45
STRIP LeftWall_917 8 8 15.2 0.4 0 93.6 45
STRIP LeftWall_917 8 8 15.6 0.4 0 97.2 45
STRIP LeftWall_917 8 8 16 0.4 0 100.8 45
STRIP LeftWall_917 8 8 16.4 0.4 0 104.4 45
STRIP LeftWall_917 8 8 16.8 0.4 0 108 45
STRIP LeftWall_917 8 8 17.2 0.4 0 111.6 45
STRIP LeftWall_917 8 8 17.6 0.4 0 115.2 45
STRIP LeftWall_917 8 8 18 0.4 0 118.8 45
STRIP LeftWall_917 8 8 18.4 0.4 0 122.4 45
STRIP LeftWall_917 8 8 18.8 0.4 0 126 45
STRIP LeftWall_917 8 8 19.2 0.4 0 129.6 45
STRIP LeftWall_917 8 8 19.6 0.4 0 133.2 45
STRIP LeftWall_917 8 8 20 0.4 0 136.8 45
STRIP LeftWall_917 8 8 20.4 0.4 0 140.4 45
STRIP LeftWall_917 8 8 20.8 0.4 0 144 45
STRIP LeftWall_917 8 8 21.2 0.4 0 147.6 45
STRIP LeftWall_917 8 8 21.6 0.4 0 151.2 45
STRIP LeftWall_917 8 8 22 0.4 0 154.8 45
STRIP LeftWall_917 8 8 22.4 0.4 0 158.4 45
STRIP LeftWall_917 8 8 22.8 0.4 0 162 45
STRIP LeftWall_917 8 8 23.2 0.4 0 165.6 45
STRIP LeftWall_917 8 8 23.6 0.4 0 169.2 45
STRIP LeftWall_917 8 8 24 0.4 0 172.8 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 8 8 24.4 0.4 0 176.4 45
STRIP LeftWall_917 8 8 24.8 0.4 0 180 45
STRIP LeftWall_917 8 8 25.2 0.4 0 183.6 45
STRIP LeftWall_917 8 8 25.6 0.4 0 187.2 45
STRIP LeftWall_917 8 8 26 0.4 0 190.8 45
STRIP LeftWall_917 8 8 26.4 0.4 0 194.4 45
STRIP LeftWall_917 8 8 26.8 0.4 0 198 45
STRIP LeftWall_917 8 8 27.2 0.4 0 201.6 45
STRIP LeftWall_917 8 8 27.6 0.4 0 205.2 45
STRIP LeftWall_917 8 8 28 0.4 0 208.8 45
STRIP LeftWall_917 8 8 28.4 0.4 0 212.4 45
STRIP LeftWall_917 8 8 28.8 0.4 0 216 45
STRIP LeftWall_917 8 8 29.2 0.4 0 219.6 45
STRIP LeftWall_917 8 8 29.6 0.4 0 223.2 45
STRIP LeftWall_917 8 8 30 0.4 0 226.8 45
STRIP LeftWall_917 8 8 30.4 0.4 0 230.4 45
STRIP LeftWall_917 8 8 30.8 0.4 0 234 45
STRIP LeftWall_917 8 8 31.2 0.4 0 237.6 45
STRIP LeftWall_917 8 8 31.6 0.4 0 241.2 45
STRIP LeftWall_917 8 8 32 0.4 0 244.8 45
STRIP LeftWall_917 8 8 32.4 0.4 0 248.4 45
STRIP LeftWall_917 8 8 32.8 0.4 0 252 45
STRIP LeftWall_917 8 8 33.2 0.4 0 255.6 45
STRIP LeftWall_917 8 8 33.6 0.4 0 259.2 45
STRIP LeftWall_917 8 8 34 0.4 0 262.8 45
STRIP LeftWall_917 8 8 34.4 0.4 0 266.4 45
STRIP LeftWall_917 9 9 4.8 0.4 0 0.45 45
STRIP LeftWall_917 9 9 5.2 0.4 0 3.6 45
STRIP LeftWall_917 9 9 5.6 0.4 0 7.2 45
STRIP LeftWall_917 9 9 6 0.4 0 10.8 45
STRIP LeftWall_917 9 9 6.4 0.4 0 14.4 45
STRIP LeftWall_917 9 9 6.8 0.4 0 18 45
STRIP LeftWall_917 9 9 7.2 0.4 0 21.6 45
STRIP LeftWall_917 9 9 7.6 0.4 0 25.2 45
STRIP LeftWall_917 9 9 8 0.4 0 28.8 45
STRIP LeftWall_917 9 9 8.4 0.4 0 32.4 45
STRIP LeftWall_917 9 9 8.8 0.4 0 36 45
STRIP LeftWall_917 9 9 9.2 0.4 0 39.6 45
STRIP LeftWall_917 9 9 9.6 0.4 0 43.2 45
STRIP LeftWall_917 9 9 10 0.4 0 46.8 45
STRIP LeftWall_917 9 9 10.4 0.4 0 50.4 45
STRIP LeftWall_917 9 9 10.8 0.4 0 54 45
STRIP LeftWall_917 9 9 11.2 0.4 0 57.6 45
STRIP LeftWall_917 9 9 11.6 0.4 0 61.2 45
STRIP LeftWall_917 9 9 12 0.4 0 64.8 45
STRIP LeftWall_917 9 9 12.4 0.4 0 68.4 45
STRIP LeftWall_917 9 9 12.8 0.4 0 72 45
STRIP LeftWall_917 9 9 13.2 0.4 0 75.6 45
STRIP LeftWall_917 9 9 13.6 0.4 0 79.2 45
STRIP LeftWall_917 9 9 14 0.4 0 82.8 45
STRIP LeftWall_917 9 9 14.4 0.4 0 86.4 45
STRIP LeftWall_917 9 9 14.8 0.4 0 90 45
STRIP LeftWall_917 9 9 15.2 0.4 0 93.6 45
STRIP LeftWall_917 9 9 15.6 0.4 0 97.2 45
STRIP LeftWall_917 9 9 16 0.4 0 100.8 45
STRIP LeftWall_917 9 9 16.4 0.4 0 104.4 45
STRIP LeftWall_917 9 9 16.8 0.4 0 108 45
STRIP LeftWall_917 9 9 17.2 0.4 0 111.6 45
STRIP LeftWall_917 9 9 17.6 0.4 0 115.2 45
STRIP LeftWall_917 9 9 18 0.4 0 118.8 45
STRIP LeftWall_917 9 9 18.4 0.4 0 122.4 45
STRIP LeftWall_917 9 9 18.8 0.4 0 126 45
STRIP LeftWall_917 9 9 19.2 0.4 0 129.6 45
STRIP LeftWall_917 9 9 19.6 0.4 0 133.2 45
STRIP LeftWall_917 9 9 20 0.4 0 136.8 45
STRIP LeftWall_917 9 9 20.4 0.4 0 140.4 45
STRIP LeftWall_917 9 9 20.8 0.4 0 144 45
STRIP LeftWall_917 9 9 21.2 0.4 0 147.6 45
STRIP LeftWall_917 9 9 21.6 0.4 0 151.2 45
STRIP LeftWall_917 9 9 22 0.4 0 154.8 45
STRIP LeftWall_917 9 9 22.4 0.4 0 158.4 45
STRIP LeftWall_917 9 9 22.8 0.4 0 162 45
STRIP LeftWall_917 9 9 23.2 0.4 0 165.6 45
STRIP LeftWall_917 9 9 23.6 0.4 0 169.2 45
STRIP LeftWall_917 9 9 24 0.4 0 172.8 45
STRIP LeftWall_917 9 9 24.4 0.4 0 176.4 45
STRIP LeftWall_917 9 9 24.8 0.4 0 180 45
STRIP LeftWall_917 9 9 25.2 0.4 0 183.6 45
STRIP LeftWall_917 9 9 25.6 0.4 0 187.2 45
STRIP LeftWall_917 9 9 26 0.4 0 190.8 45
STRIP LeftWall_917 9 9 26.4 0.4 0 194.4 45
STRIP LeftWall_917 9 9 26.8 0.4 0 198 45
STRIP LeftWall_917 9 9 27.2 0.4 0 201.6 45
STRIP LeftWall_917 9 9 27.6 0.4 0 205.2 45
STRIP LeftWall_917 9 9 28 0.4 0 208.8 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	9	9	28.4	0.4	0	212.4	45
STRIP LeftWall_917	9	9	28.8	0.4	0	216	45
STRIP LeftWall_917	9	9	29.2	0.4	0	219.6	45
STRIP LeftWall_917	9	9	29.6	0.4	0	223.2	45
STRIP LeftWall_917	9	9	30	0.4	0	226.8	45
STRIP LeftWall_917	9	9	30.4	0.4	0	230.4	45
STRIP LeftWall_917	9	9	30.8	0.4	0	234	45
STRIP LeftWall_917	9	9	31.2	0.4	0	237.6	45
STRIP LeftWall_917	9	9	31.6	0.4	0	241.2	45
STRIP LeftWall_917	9	9	32	0.4	0	244.8	45
STRIP LeftWall_917	9	9	32.4	0.4	0	248.4	45
STRIP LeftWall_917	9	9	32.8	0.4	0	252	45
STRIP LeftWall_917	9	9	33.2	0.4	0	255.6	45
STRIP LeftWall_917	9	9	33.6	0.4	0	259.2	45
STRIP LeftWall_917	9	9	34	0.4	0	262.8	45
STRIP LeftWall_917	9	9	34.4	0.4	0	266.4	45
STRIP LeftWall_917	10	10	4.8	0.4	0	0.45	45
STRIP LeftWall_917	10	10	5.2	0.4	0	3.6	45
STRIP LeftWall_917	10	10	5.6	0.4	0	7.2	45
STRIP LeftWall_917	10	10	6	0.4	0	10.8	45
STRIP LeftWall_917	10	10	6.4	0.4	0	14.4	45
STRIP LeftWall_917	10	10	6.8	0.4	0	18	45
STRIP LeftWall_917	10	10	7.2	0.4	0	21.6	45
STRIP LeftWall_917	10	10	7.6	0.4	0	25.2	45
STRIP LeftWall_917	10	10	8	0.4	0	28.8	45
STRIP LeftWall_917	10	10	8.4	0.4	0	32.4	45
STRIP LeftWall_917	10	10	8.8	0.4	0	36	45
STRIP LeftWall_917	10	10	9.2	0.4	0	39.6	45
STRIP LeftWall_917	10	10	9.6	0.4	0	43.2	45
STRIP LeftWall_917	10	10	10	0.4	0	46.8	45
STRIP LeftWall_917	10	10	10.4	0.4	0	50.4	45
STRIP LeftWall_917	10	10	10.8	0.4	0	54	45
STRIP LeftWall_917	10	10	11.2	0.4	0	57.6	45
STRIP LeftWall_917	10	10	11.6	0.4	0	61.2	45
STRIP LeftWall_917	10	10	12	0.4	0	64.8	45
STRIP LeftWall_917	10	10	12.4	0.4	0	68.4	45
STRIP LeftWall_917	10	10	12.8	0.4	0	72	45
STRIP LeftWall_917	10	10	13.2	0.4	0	75.6	45
STRIP LeftWall_917	10	10	13.6	0.4	0	79.2	45
STRIP LeftWall_917	10	10	14	0.4	0	82.8	45
STRIP LeftWall_917	10	10	14.4	0.4	0	86.4	45
STRIP LeftWall_917	10	10	14.8	0.4	0	90	45
STRIP LeftWall_917	10	10	15.2	0.4	0	93.6	45
STRIP LeftWall_917	10	10	15.6	0.4	0	97.2	45
STRIP LeftWall_917	10	10	16	0.4	0	100.8	45
STRIP LeftWall_917	10	10	16.4	0.4	0	104.4	45
STRIP LeftWall_917	10	10	16.8	0.4	0	108	45
STRIP LeftWall_917	10	10	17.2	0.4	0	111.6	45
STRIP LeftWall_917	10	10	17.6	0.4	0	115.2	45
STRIP LeftWall_917	10	10	18	0.4	0	118.8	45
STRIP LeftWall_917	10	10	18.4	0.4	0	122.4	45
STRIP LeftWall_917	10	10	18.8	0.4	0	126	45
STRIP LeftWall_917	10	10	19.2	0.4	0	129.6	45
STRIP LeftWall_917	10	10	19.6	0.4	0	133.2	45
STRIP LeftWall_917	10	10	20	0.4	0	136.8	45
STRIP LeftWall_917	10	10	20.4	0.4	0	140.4	45
STRIP LeftWall_917	10	10	20.8	0.4	0	144	45
STRIP LeftWall_917	10	10	21.2	0.4	0	147.6	45
STRIP LeftWall_917	10	10	21.6	0.4	0	151.2	45
STRIP LeftWall_917	10	10	22	0.4	0	154.8	45
STRIP LeftWall_917	10	10	22.4	0.4	0	158.4	45
STRIP LeftWall_917	10	10	22.8	0.4	0	162	45
STRIP LeftWall_917	10	10	23.2	0.4	0	165.6	45
STRIP LeftWall_917	10	10	23.6	0.4	0	169.2	45
STRIP LeftWall_917	10	10	24	0.4	0	172.8	45
STRIP LeftWall_917	10	10	24.4	0.4	0	176.4	45
STRIP LeftWall_917	10	10	24.8	0.4	0	180	45
STRIP LeftWall_917	10	10	25.2	0.4	0	183.6	45
STRIP LeftWall_917	10	10	25.6	0.4	0	187.2	45
STRIP LeftWall_917	10	10	26	0.4	0	190.8	45
STRIP LeftWall_917	10	10	26.4	0.4	0	194.4	45
STRIP LeftWall_917	10	10	26.8	0.4	0	198	45
STRIP LeftWall_917	10	10	27.2	0.4	0	201.6	45
STRIP LeftWall_917	10	10	27.6	0.4	0	205.2	45
STRIP LeftWall_917	10	10	28	0.4	0	208.8	45
STRIP LeftWall_917	10	10	28.4	0.4	0	212.4	45
STRIP LeftWall_917	10	10	28.8	0.4	0	216	45
STRIP LeftWall_917	10	10	29.2	0.4	0	219.6	45
STRIP LeftWall_917	10	10	29.6	0.4	0	223.2	45
STRIP LeftWall_917	10	10	30	0.4	0	226.8	45
STRIP LeftWall_917	10	10	30.4	0.4	0	230.4	45
STRIP LeftWall_917	10	10	30.8	0.4	0	234	45
STRIP LeftWall_917	10	10	31.2	0.4	0	237.6	45
STRIP LeftWall_917	10	10	31.6	0.4	0	241.2	45
STRIP LeftWall_917	10	10	32	0.4	0	244.8	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 10 10 32.4 0.4 0 248.4 45
STRIP LeftWall_917 10 10 32.8 0.4 0 252 45
STRIP LeftWall_917 10 10 33.2 0.4 0 255.6 45
STRIP LeftWall_917 10 10 33.6 0.4 0 259.2 45
STRIP LeftWall_917 10 10 34 0.4 0 262.8 45
STRIP LeftWall_917 10 10 34.4 0.4 0 266.4 45
STRIP LeftWall_917 11 11 4.8 0.4 0 0.45 45
STRIP LeftWall_917 11 11 5.2 0.4 0 3.6 45
STRIP LeftWall_917 11 11 5.6 0.4 0 7.2 45
STRIP LeftWall_917 11 11 6 0.4 0 10.8 45
STRIP LeftWall_917 11 11 6.4 0.4 0 14.4 45
STRIP LeftWall_917 11 11 6.8 0.4 0 18 45
STRIP LeftWall_917 11 11 7.2 0.4 0 21.6 45
STRIP LeftWall_917 11 11 7.6 0.4 0 25.2 45
STRIP LeftWall_917 11 11 8 0.4 0 28.8 45
STRIP LeftWall_917 11 11 8.4 0.4 0 32.4 45
STRIP LeftWall_917 11 11 8.8 0.4 0 36 45
STRIP LeftWall_917 11 11 9.2 0.4 0 39.6 45
STRIP LeftWall_917 11 11 9.6 0.4 0 43.2 45
STRIP LeftWall_917 11 11 10 0.4 0 46.8 45
STRIP LeftWall_917 11 11 10.4 0.4 0 50.4 45
STRIP LeftWall_917 11 11 10.8 0.4 0 54 45
STRIP LeftWall_917 11 11 11.2 0.4 0 57.6 45
STRIP LeftWall_917 11 11 11.6 0.4 0 61.2 45
STRIP LeftWall_917 11 11 12 0.4 0 64.8 45
STRIP LeftWall_917 11 11 12.4 0.4 0 68.4 45
STRIP LeftWall_917 11 11 12.8 0.4 0 72 45
STRIP LeftWall_917 11 11 13.2 0.4 0 75.6 45
STRIP LeftWall_917 11 11 13.6 0.4 0 79.2 45
STRIP LeftWall_917 11 11 14 0.4 0 82.8 45
STRIP LeftWall_917 11 11 14.4 0.4 0 86.4 45
STRIP LeftWall_917 11 11 14.8 0.4 0 90 45
STRIP LeftWall_917 11 11 15.2 0.4 0 93.6 45
STRIP LeftWall_917 11 11 15.6 0.4 0 97.2 45
STRIP LeftWall_917 11 11 16 0.4 0 100.8 45
STRIP LeftWall_917 11 11 16.4 0.4 0 104.4 45
STRIP LeftWall_917 11 11 16.8 0.4 0 108 45
STRIP LeftWall_917 11 11 17.2 0.4 0 111.6 45
STRIP LeftWall_917 11 11 17.6 0.4 0 115.2 45
STRIP LeftWall_917 11 11 18 0.4 0 118.8 45
STRIP LeftWall_917 11 11 18.4 0.4 0 122.4 45
STRIP LeftWall_917 11 11 18.8 0.4 0 126 45
STRIP LeftWall_917 11 11 19.2 0.4 0 129.6 45
STRIP LeftWall_917 11 11 19.6 0.4 0 133.2 45
STRIP LeftWall_917 11 11 20 0.4 0 136.8 45
STRIP LeftWall_917 11 11 20.4 0.4 0 140.4 45
STRIP LeftWall_917 11 11 20.8 0.4 0 144 45
STRIP LeftWall_917 11 11 21.2 0.4 0 147.6 45
STRIP LeftWall_917 11 11 21.6 0.4 0 151.2 45
STRIP LeftWall_917 11 11 22 0.4 0 154.8 45
STRIP LeftWall_917 11 11 22.4 0.4 0 158.4 45
STRIP LeftWall_917 11 11 22.8 0.4 0 162 45
STRIP LeftWall_917 11 11 23.2 0.4 0 165.6 45
STRIP LeftWall_917 11 11 23.6 0.4 0 169.2 45
STRIP LeftWall_917 11 11 24 0.4 0 172.8 45
STRIP LeftWall_917 11 11 24.4 0.4 0 176.4 45
STRIP LeftWall_917 11 11 24.8 0.4 0 180 45
STRIP LeftWall_917 11 11 25.2 0.4 0 183.6 45
STRIP LeftWall_917 11 11 25.6 0.4 0 187.2 45
STRIP LeftWall_917 11 11 26 0.4 0 190.8 45
STRIP LeftWall_917 11 11 26.4 0.4 0 194.4 45
STRIP LeftWall_917 11 11 26.8 0.4 0 198 45
STRIP LeftWall_917 11 11 27.2 0.4 0 201.6 45
STRIP LeftWall_917 11 11 27.6 0.4 0 205.2 45
STRIP LeftWall_917 11 11 28 0.4 0 208.8 45
STRIP LeftWall_917 11 11 28.4 0.4 0 212.4 45
STRIP LeftWall_917 11 11 28.8 0.4 0 216 45
STRIP LeftWall_917 11 11 29.2 0.4 0 219.6 45
STRIP LeftWall_917 11 11 29.6 0.4 0 223.2 45
STRIP LeftWall_917 11 11 30 0.4 0 226.8 45
STRIP LeftWall_917 11 11 30.4 0.4 0 230.4 45
STRIP LeftWall_917 11 11 30.8 0.4 0 234 45
STRIP LeftWall_917 11 11 31.2 0.4 0 237.6 45
STRIP LeftWall_917 11 11 31.6 0.4 0 241.2 45
STRIP LeftWall_917 11 11 32 0.4 0 244.8 45
STRIP LeftWall_917 11 11 32.4 0.4 0 248.4 45
STRIP LeftWall_917 11 11 32.8 0.4 0 252 45
STRIP LeftWall_917 11 11 33.2 0.4 0 255.6 45
STRIP LeftWall_917 11 11 33.6 0.4 0 259.2 45
STRIP LeftWall_917 11 11 34 0.4 0 262.8 45
STRIP LeftWall_917 11 11 34.4 0.4 0 266.4 45

* 7: Defining Steps

STEP Stepn.0Condizioniiiniziali_924

CHANGE Coltredegritica_2_905_L_0 U-FRICT=30 LeftWall_917

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

```
CHANGE Coltredestritica_2_905_L_0 D-FRICT=30 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KA=0.333 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KP=4.288 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KA=0.333 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KP=4.288 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KP=5.879 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KP=5.879 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-COHE=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-ADHES=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-COHE=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-ADHES=0 LeftWall_917
SETWALL LeftWall_917
GEOM 0 0
SURCHARGE 0 0 0 0
WATER -30 0 -13 0 0
ADD LeftWallElement_1092
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.1Fasediscavo1-Fase1_935
SETWALL LeftWall_917
GEOM 0 -3.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.2Fasediscavo1-Fase2_953
SETWALL LeftWall_917
GEOM 0 -3.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -13 0 0
ADD Tirantiesistenti+587.00_965
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.3Fasediscavo2-Fase1_973
SETWALL LeftWall_917
GEOM 0 -6.25
SURCHARGE 0 0 0 -6.25
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.4Fasediscavo2-Fase2_991
SETWALL LeftWall_917
GEOM 0 -6.25
SURCHARGE 0 0 0 -6.25
WATER -30 0 -13 0 0
ADD Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.5Fasefinalisediscavoes_1011
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.6Primotirantenuovo_1029
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
ADD TirantinuoviT3_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.7Secondotirantenuovo_1049
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
ADD TirantinuoviT1_3735
VARIABLE LeftWallElement_1092 0.5
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



```
ENDSTEP

STEP Stage8Rilasciotirantiesist_3737
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
REMOVE Tirantiesistenti+587.00_965 Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage9Scavodiprogetto_17297
SETWALL LeftWall_917
GEOM 0 -10.5
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage10Sisma_5719
SETWALL LeftWall_917
GEOM 0 -10.5
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
CHANGE Coltredeiritica_2_905_L_0 U-KAED=0.59647 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KAEW=1.0372 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KPED=3.9463 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KPEW=2.4763 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KAED=0.52506 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KAEW=1.2417 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KPED=2.627 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KPEW=0.85515 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KAED=0.5003 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KAEW=0.7327 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KPED=5.5548 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KPEW=4.3355 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KAED=0.4404 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KAEW=0.7799 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KPED=3.7695 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KPEW=2.3816 LeftWall_917
EQK USER 0.2897 0.14485 -0.14485 0 0.5 0 0.5 0 0
* Defining seismic surcharge pressures on wall LeftWall_917
*   min elevation = -10.5
*   max elevation = 0
*   average gamma = 20.1428571428571
*   kh = 0.2897
*   deltaQ = 241.256728125
DLOAD step LeftWall_917 -10.5 22.977 0 22.977
* Include pressure contribution from wall: LeftWall_917
* Include wall contribution
DLOAD step LeftWall_917 -10.5 0.41256 0 0.41256
VARIABLE LeftWallElement_1092 0.5
ENDSTEP
```

10.6 Design Assumption : NTC2018: SISMICA GEO - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: NTC2018: SISMICA GEO
* Time:mercoledì 14 dicembre 2022 10:28:20
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_917 0 -13 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_917 -13 0 1 0
SOIL 0_R LeftWall_917 -13 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Coltredeiritica_2_905_L_0)
*
LDATA Coltredeiritica_2_905_L_0 30 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 18 10 10
PERMEABILITY 1E-05
RESISTANCE 0 30 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

```
YOUNG 30000 48000
ENDL
*
* Soil Profile (Marnaarenacea_8_906_L_0)
*
LDATA Marnaarenacea_8_906_L_0 -3 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 21 13 10
PERMEABILITY 0.0001
RESISTANCE 100 35 0 0 0
TZDATA LINEAR 20000 0 30 0.5 0
KSCALE 0 0
YOUNG 1E+06 1.6E+06
ENDL

* 5: Defining structural materials
* Rebar material: 54 Name=Strands 270 ksi E=200100000 kPa
MATERIAL Strands270ksi_54 2.001E+08
* Concrete material: 1093 Name=C20/25 E=29962000 kPa
MATERIAL C2025_1093 2.9962E+07
* Steel material: 43 Name=Fe510 E=206000200 kPa
MATERIAL Fe510_43 2.06E+08

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later
BEAM LeftWallElement_1092 LeftWall_917 -13 0 Fe510_43 0.080792 0.018495 4.3946E-05 1.4241 00 00 0

* 6.2: Supports
WIRE Tirantiesistenti+587.00_965 LeftWall_917 -3 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+584.00_1003 LeftWall_917 -6 Strands270ksi_54 1.9841E-05 62.5 15 0 0
WIRE TirantinuoviT3_3643 LeftWall_917 -8 Strands270ksi_54 1.9501E-05 62.5 15 0 0
WIRE TirantinuoviT1_3735 LeftWall_917 -1 Strands270ksi_54 1.611E-05 62.5 15 0 0

* 6.3: Strips

* (slope contribution)
STRIP LeftWall_917 1 1 4.8 0.4 0 0.45 45
STRIP LeftWall_917 1 1 5.2 0.4 0 3.6 45
STRIP LeftWall_917 1 1 5.6 0.4 0 7.2 45
STRIP LeftWall_917 1 1 6 0.4 0 10.8 45
STRIP LeftWall_917 1 1 6.4 0.4 0 14.4 45
STRIP LeftWall_917 1 1 6.8 0.4 0 18 45
STRIP LeftWall_917 1 1 7.2 0.4 0 21.6 45
STRIP LeftWall_917 1 1 7.6 0.4 0 25.2 45
STRIP LeftWall_917 1 1 8 0.4 0 28.8 45
STRIP LeftWall_917 1 1 8.4 0.4 0 32.4 45
STRIP LeftWall_917 1 1 8.8 0.4 0 36 45
STRIP LeftWall_917 1 1 9.2 0.4 0 39.6 45
STRIP LeftWall_917 1 1 9.6 0.4 0 43.2 45
STRIP LeftWall_917 1 1 10 0.4 0 46.8 45
STRIP LeftWall_917 1 1 10.4 0.4 0 50.4 45
STRIP LeftWall_917 1 1 10.8 0.4 0 54 45
STRIP LeftWall_917 1 1 11.2 0.4 0 57.6 45
STRIP LeftWall_917 1 1 11.6 0.4 0 61.2 45
STRIP LeftWall_917 1 1 12 0.4 0 64.8 45
STRIP LeftWall_917 1 1 12.4 0.4 0 68.4 45
STRIP LeftWall_917 1 1 12.8 0.4 0 72 45
STRIP LeftWall_917 1 1 13.2 0.4 0 75.6 45
STRIP LeftWall_917 1 1 13.6 0.4 0 79.2 45
STRIP LeftWall_917 1 1 14 0.4 0 82.8 45
STRIP LeftWall_917 1 1 14.4 0.4 0 86.4 45
STRIP LeftWall_917 1 1 14.8 0.4 0 90 45
STRIP LeftWall_917 1 1 15.2 0.4 0 93.6 45
STRIP LeftWall_917 1 1 15.6 0.4 0 97.2 45
STRIP LeftWall_917 1 1 16 0.4 0 100.8 45
STRIP LeftWall_917 1 1 16.4 0.4 0 104.4 45
STRIP LeftWall_917 1 1 16.8 0.4 0 108 45
STRIP LeftWall_917 1 1 17.2 0.4 0 111.6 45
STRIP LeftWall_917 1 1 17.6 0.4 0 115.2 45
STRIP LeftWall_917 1 1 18 0.4 0 118.8 45
STRIP LeftWall_917 1 1 18.4 0.4 0 122.4 45
STRIP LeftWall_917 1 1 18.8 0.4 0 126 45
STRIP LeftWall_917 1 1 19.2 0.4 0 129.6 45
STRIP LeftWall_917 1 1 19.6 0.4 0 133.2 45
STRIP LeftWall_917 1 1 20 0.4 0 136.8 45
STRIP LeftWall_917 1 1 20.4 0.4 0 140.4 45
STRIP LeftWall_917 1 1 20.8 0.4 0 144 45
STRIP LeftWall_917 1 1 21.2 0.4 0 147.6 45
STRIP LeftWall_917 1 1 21.6 0.4 0 151.2 45
STRIP LeftWall_917 1 1 22 0.4 0 154.8 45
STRIP LeftWall_917 1 1 22.4 0.4 0 158.4 45
STRIP LeftWall_917 1 1 22.8 0.4 0 162 45
STRIP LeftWall_917 1 1 23.2 0.4 0 165.6 45
STRIP LeftWall_917 1 1 23.6 0.4 0 169.2 45
STRIP LeftWall_917 1 1 24 0.4 0 172.8 45
STRIP LeftWall_917 1 1 24.4 0.4 0 176.4 45
STRIP LeftWall_917 1 1 24.8 0.4 0 180 45
STRIP LeftWall_917 1 1 25.2 0.4 0 183.6 45
STRIP LeftWall_917 1 1 25.6 0.4 0 187.2 45
STRIP LeftWall_917 1 1 26 0.4 0 190.8 45
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP	LeftWall_917	1	1	26.4	0.4	0	194.4	45
STRIP	LeftWall_917	1	1	26.8	0.4	0	198	45
STRIP	LeftWall_917	1	1	27.2	0.4	0	201.6	45
STRIP	LeftWall_917	1	1	27.6	0.4	0	205.2	45
STRIP	LeftWall_917	1	1	28	0.4	0	208.8	45
STRIP	LeftWall_917	1	1	28.4	0.4	0	212.4	45
STRIP	LeftWall_917	1	1	28.8	0.4	0	216	45
STRIP	LeftWall_917	1	1	29.2	0.4	0	219.6	45
STRIP	LeftWall_917	1	1	29.6	0.4	0	223.2	45
STRIP	LeftWall_917	1	1	30	0.4	0	226.8	45
STRIP	LeftWall_917	1	1	30.4	0.4	0	230.4	45
STRIP	LeftWall_917	1	1	30.8	0.4	0	234	45
STRIP	LeftWall_917	1	1	31.2	0.4	0	237.6	45
STRIP	LeftWall_917	1	1	31.6	0.4	0	241.2	45
STRIP	LeftWall_917	1	1	32	0.4	0	244.8	45
STRIP	LeftWall_917	1	1	32.4	0.4	0	248.4	45
STRIP	LeftWall_917	1	1	32.8	0.4	0	252	45
STRIP	LeftWall_917	1	1	33.2	0.4	0	255.6	45
STRIP	LeftWall_917	1	1	33.6	0.4	0	259.2	45
STRIP	LeftWall_917	1	1	34	0.4	0	262.8	45
STRIP	LeftWall_917	1	1	34.4	0.4	0	266.4	45
STRIP	LeftWall_917	2	2	4.8	0.4	0	0.45	45
STRIP	LeftWall_917	2	2	5.2	0.4	0	3.6	45
STRIP	LeftWall_917	2	2	5.6	0.4	0	7.2	45
STRIP	LeftWall_917	2	2	6	0.4	0	10.8	45
STRIP	LeftWall_917	2	2	6.4	0.4	0	14.4	45
STRIP	LeftWall_917	2	2	6.8	0.4	0	18	45
STRIP	LeftWall_917	2	2	7.2	0.4	0	21.6	45
STRIP	LeftWall_917	2	2	7.6	0.4	0	25.2	45
STRIP	LeftWall_917	2	2	8	0.4	0	28.8	45
STRIP	LeftWall_917	2	2	8.4	0.4	0	32.4	45
STRIP	LeftWall_917	2	2	8.8	0.4	0	36	45
STRIP	LeftWall_917	2	2	9.2	0.4	0	39.6	45
STRIP	LeftWall_917	2	2	9.6	0.4	0	43.2	45
STRIP	LeftWall_917	2	2	10	0.4	0	46.8	45
STRIP	LeftWall_917	2	2	10.4	0.4	0	50.4	45
STRIP	LeftWall_917	2	2	10.8	0.4	0	54	45
STRIP	LeftWall_917	2	2	11.2	0.4	0	57.6	45
STRIP	LeftWall_917	2	2	11.6	0.4	0	61.2	45
STRIP	LeftWall_917	2	2	12	0.4	0	64.8	45
STRIP	LeftWall_917	2	2	12.4	0.4	0	68.4	45
STRIP	LeftWall_917	2	2	12.8	0.4	0	72	45
STRIP	LeftWall_917	2	2	13.2	0.4	0	75.6	45
STRIP	LeftWall_917	2	2	13.6	0.4	0	79.2	45
STRIP	LeftWall_917	2	2	14	0.4	0	82.8	45
STRIP	LeftWall_917	2	2	14.4	0.4	0	86.4	45
STRIP	LeftWall_917	2	2	14.8	0.4	0	90	45
STRIP	LeftWall_917	2	2	15.2	0.4	0	93.6	45
STRIP	LeftWall_917	2	2	15.6	0.4	0	97.2	45
STRIP	LeftWall_917	2	2	16	0.4	0	100.8	45
STRIP	LeftWall_917	2	2	16.4	0.4	0	104.4	45
STRIP	LeftWall_917	2	2	16.8	0.4	0	108	45
STRIP	LeftWall_917	2	2	17.2	0.4	0	111.6	45
STRIP	LeftWall_917	2	2	17.6	0.4	0	115.2	45
STRIP	LeftWall_917	2	2	18	0.4	0	118.8	45
STRIP	LeftWall_917	2	2	18.4	0.4	0	122.4	45
STRIP	LeftWall_917	2	2	18.8	0.4	0	126	45
STRIP	LeftWall_917	2	2	19.2	0.4	0	129.6	45
STRIP	LeftWall_917	2	2	19.6	0.4	0	133.2	45
STRIP	LeftWall_917	2	2	20	0.4	0	136.8	45
STRIP	LeftWall_917	2	2	20.4	0.4	0	140.4	45
STRIP	LeftWall_917	2	2	20.8	0.4	0	144	45
STRIP	LeftWall_917	2	2	21.2	0.4	0	147.6	45
STRIP	LeftWall_917	2	2	21.6	0.4	0	151.2	45
STRIP	LeftWall_917	2	2	22	0.4	0	154.8	45
STRIP	LeftWall_917	2	2	22.4	0.4	0	158.4	45
STRIP	LeftWall_917	2	2	22.8	0.4	0	162	45
STRIP	LeftWall_917	2	2	23.2	0.4	0	165.6	45
STRIP	LeftWall_917	2	2	23.6	0.4	0	169.2	45
STRIP	LeftWall_917	2	2	24	0.4	0	172.8	45
STRIP	LeftWall_917	2	2	24.4	0.4	0	176.4	45
STRIP	LeftWall_917	2	2	24.8	0.4	0	180	45
STRIP	LeftWall_917	2	2	25.2	0.4	0	183.6	45
STRIP	LeftWall_917	2	2	25.6	0.4	0	187.2	45
STRIP	LeftWall_917	2	2	26	0.4	0	190.8	45
STRIP	LeftWall_917	2	2	26.4	0.4	0	194.4	45
STRIP	LeftWall_917	2	2	26.8	0.4	0	198	45
STRIP	LeftWall_917	2	2	27.2	0.4	0	201.6	45
STRIP	LeftWall_917	2	2	27.6	0.4	0	205.2	45
STRIP	LeftWall_917	2	2	28	0.4	0	208.8	45
STRIP	LeftWall_917	2	2	28.4	0.4	0	212.4	45
STRIP	LeftWall_917	2	2	28.8	0.4	0	216	45
STRIP	LeftWall_917	2	2	29.2	0.4	0	219.6	45
STRIP	LeftWall_917	2	2	29.6	0.4	0	223.2	45
STRIP	LeftWall_917	2	2	30	0.4	0	226.8	45
STRIP	LeftWall_917	2	2	30.4	0.4	0	230.4	45
STRIP	LeftWall_917	2	2	30.8	0.4	0	234	45
STRIP	LeftWall_917	2	2	31.2	0.4	0	237.6	45
STRIP	LeftWall_917	2	2	31.6	0.4	0	241.2	45
STRIP	LeftWall_917	2	2	32	0.4	0	244.8	45
STRIP	LeftWall_917	2	2	32.4	0.4	0	248.4	45
STRIP	LeftWall_917	2	2	32.8	0.4	0	252	45
STRIP	LeftWall_917	2	2	33.2	0.4	0	255.6	45
STRIP	LeftWall_917	2	2	33.6	0.4	0	259.2	45
STRIP	LeftWall_917	2	2	34	0.4	0	262.8	45
STRIP	LeftWall_917	2	2	34.4	0.4	0	266.4	45
STRIP	LeftWall_917	3	3	4.8	0.4	0	0.45	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaiba
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP	LeftWall_917	3	3	5.2	0.4	0	3.6	45
STRIP	LeftWall_917	3	3	5.6	0.4	0	7.2	45
STRIP	LeftWall_917	3	3	6	0.4	0	10.8	45
STRIP	LeftWall_917	3	3	6.4	0.4	0	14.4	45
STRIP	LeftWall_917	3	3	6.8	0.4	0	18	45
STRIP	LeftWall_917	3	3	7.2	0.4	0	21.6	45
STRIP	LeftWall_917	3	3	7.6	0.4	0	25.2	45
STRIP	LeftWall_917	3	3	8	0.4	0	28.8	45
STRIP	LeftWall_917	3	3	8.4	0.4	0	32.4	45
STRIP	LeftWall_917	3	3	8.8	0.4	0	36	45
STRIP	LeftWall_917	3	3	9.2	0.4	0	39.6	45
STRIP	LeftWall_917	3	3	9.6	0.4	0	43.2	45
STRIP	LeftWall_917	3	3	10	0.4	0	46.8	45
STRIP	LeftWall_917	3	3	10.4	0.4	0	50.4	45
STRIP	LeftWall_917	3	3	10.8	0.4	0	54	45
STRIP	LeftWall_917	3	3	11.2	0.4	0	57.6	45
STRIP	LeftWall_917	3	3	11.6	0.4	0	61.2	45
STRIP	LeftWall_917	3	3	12	0.4	0	64.8	45
STRIP	LeftWall_917	3	3	12.4	0.4	0	68.4	45
STRIP	LeftWall_917	3	3	12.8	0.4	0	72	45
STRIP	LeftWall_917	3	3	13.2	0.4	0	75.6	45
STRIP	LeftWall_917	3	3	13.6	0.4	0	79.2	45
STRIP	LeftWall_917	3	3	14	0.4	0	82.8	45
STRIP	LeftWall_917	3	3	14.4	0.4	0	86.4	45
STRIP	LeftWall_917	3	3	14.8	0.4	0	90	45
STRIP	LeftWall_917	3	3	15.2	0.4	0	93.6	45
STRIP	LeftWall_917	3	3	15.6	0.4	0	97.2	45
STRIP	LeftWall_917	3	3	16	0.4	0	100.8	45
STRIP	LeftWall_917	3	3	16.4	0.4	0	104.4	45
STRIP	LeftWall_917	3	3	16.8	0.4	0	108	45
STRIP	LeftWall_917	3	3	17.2	0.4	0	111.6	45
STRIP	LeftWall_917	3	3	17.6	0.4	0	115.2	45
STRIP	LeftWall_917	3	3	18	0.4	0	118.8	45
STRIP	LeftWall_917	3	3	18.4	0.4	0	122.4	45
STRIP	LeftWall_917	3	3	18.8	0.4	0	126	45
STRIP	LeftWall_917	3	3	19.2	0.4	0	129.6	45
STRIP	LeftWall_917	3	3	19.6	0.4	0	133.2	45
STRIP	LeftWall_917	3	3	20	0.4	0	136.8	45
STRIP	LeftWall_917	3	3	20.4	0.4	0	140.4	45
STRIP	LeftWall_917	3	3	20.8	0.4	0	144	45
STRIP	LeftWall_917	3	3	21.2	0.4	0	147.6	45
STRIP	LeftWall_917	3	3	21.6	0.4	0	151.2	45
STRIP	LeftWall_917	3	3	22	0.4	0	154.8	45
STRIP	LeftWall_917	3	3	22.4	0.4	0	158.4	45
STRIP	LeftWall_917	3	3	22.8	0.4	0	162	45
STRIP	LeftWall_917	3	3	23.2	0.4	0	165.6	45
STRIP	LeftWall_917	3	3	23.6	0.4	0	169.2	45
STRIP	LeftWall_917	3	3	24	0.4	0	172.8	45
STRIP	LeftWall_917	3	3	24.4	0.4	0	176.4	45
STRIP	LeftWall_917	3	3	24.8	0.4	0	180	45
STRIP	LeftWall_917	3	3	25.2	0.4	0	183.6	45
STRIP	LeftWall_917	3	3	25.6	0.4	0	187.2	45
STRIP	LeftWall_917	3	3	26	0.4	0	190.8	45
STRIP	LeftWall_917	3	3	26.4	0.4	0	194.4	45
STRIP	LeftWall_917	3	3	26.8	0.4	0	198	45
STRIP	LeftWall_917	3	3	27.2	0.4	0	201.6	45
STRIP	LeftWall_917	3	3	27.6	0.4	0	205.2	45
STRIP	LeftWall_917	3	3	28	0.4	0	208.8	45
STRIP	LeftWall_917	3	3	28.4	0.4	0	212.4	45
STRIP	LeftWall_917	3	3	28.8	0.4	0	216	45
STRIP	LeftWall_917	3	3	29.2	0.4	0	219.6	45
STRIP	LeftWall_917	3	3	29.6	0.4	0	223.2	45
STRIP	LeftWall_917	3	3	30	0.4	0	226.8	45
STRIP	LeftWall_917	3	3	30.4	0.4	0	230.4	45
STRIP	LeftWall_917	3	3	30.8	0.4	0	234	45
STRIP	LeftWall_917	3	3	31.2	0.4	0	237.6	45
STRIP	LeftWall_917	3	3	31.6	0.4	0	241.2	45
STRIP	LeftWall_917	3	3	32	0.4	0	244.8	45
STRIP	LeftWall_917	3	3	32.4	0.4	0	248.4	45
STRIP	LeftWall_917	3	3	32.8	0.4	0	252	45
STRIP	LeftWall_917	3	3	33.2	0.4	0	255.6	45
STRIP	LeftWall_917	3	3	33.6	0.4	0	259.2	45
STRIP	LeftWall_917	3	3	34	0.4	0	262.8	45
STRIP	LeftWall_917	3	3	34.4	0.4	0	266.4	45
STRIP	LeftWall_917	4	4	4.8	0.4	0	0.45	45
STRIP	LeftWall_917	4	4	5.2	0.4	0	3.6	45
STRIP	LeftWall_917	4	4	5.6	0.4	0	7.2	45
STRIP	LeftWall_917	4	4	6	0.4	0	10.8	45
STRIP	LeftWall_917	4	4	6.4	0.4	0	14.4	45
STRIP	LeftWall_917	4	4	6.8	0.4	0	18	45
STRIP	LeftWall_917	4	4	7.2	0.4	0	21.6	45
STRIP	LeftWall_917	4	4	7.6	0.4	0	25.2	45
STRIP	LeftWall_917	4	4	8	0.4	0	28.8	45
STRIP	LeftWall_917	4	4	8.4	0.4	0	32.4	45
STRIP	LeftWall_917	4	4	8.8	0.4	0	36	45
STRIP	LeftWall_917	4	4	9.2	0.4	0	39.6	45
STRIP	LeftWall_917	4	4	9.6	0.4	0	43.2	45
STRIP	LeftWall_917	4	4	10	0.4	0	46.8	45
STRIP	LeftWall_917	4	4	10.4	0.4	0	50.4	45
STRIP	LeftWall_917	4	4	10.8	0.4	0	54	45
STRIP	LeftWall_917	4	4	11.2	0.4	0	57.6	45
STRIP	LeftWall_917	4	4	11.6	0.4	0	61.2	45
STRIP	LeftWall_917	4	4	12	0.4	0	64.8	45
STRIP	LeftWall_917	4	4	12.4	0.4	0	68.4	45
STRIP	LeftWall_917	4	4	12.8	0.4	0	72	45
STRIP	LeftWall_917	4	4	13.2	0.4	0	75.6	45
STRIP	LeftWall_917	4	4	13.6	0.4	0	79.2	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:

Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP	LeftWall_917	4	4	14	0.4	0	82.8	45
STRIP	LeftWall_917	4	4	14.4	0.4	0	86.4	45
STRIP	LeftWall_917	4	4	14.8	0.4	0	90	45
STRIP	LeftWall_917	4	4	15.2	0.4	0	93.6	45
STRIP	LeftWall_917	4	4	15.6	0.4	0	97.2	45
STRIP	LeftWall_917	4	4	16	0.4	0	100.8	45
STRIP	LeftWall_917	4	4	16.4	0.4	0	104.4	45
STRIP	LeftWall_917	4	4	16.8	0.4	0	108	45
STRIP	LeftWall_917	4	4	17.2	0.4	0	111.6	45
STRIP	LeftWall_917	4	4	17.6	0.4	0	115.2	45
STRIP	LeftWall_917	4	4	18	0.4	0	118.8	45
STRIP	LeftWall_917	4	4	18.4	0.4	0	122.4	45
STRIP	LeftWall_917	4	4	18.8	0.4	0	126	45
STRIP	LeftWall_917	4	4	19.2	0.4	0	129.6	45
STRIP	LeftWall_917	4	4	19.6	0.4	0	133.2	45
STRIP	LeftWall_917	4	4	20	0.4	0	136.8	45
STRIP	LeftWall_917	4	4	20.4	0.4	0	140.4	45
STRIP	LeftWall_917	4	4	20.8	0.4	0	144	45
STRIP	LeftWall_917	4	4	21.2	0.4	0	147.6	45
STRIP	LeftWall_917	4	4	21.6	0.4	0	151.2	45
STRIP	LeftWall_917	4	4	22	0.4	0	154.8	45
STRIP	LeftWall_917	4	4	22.4	0.4	0	158.4	45
STRIP	LeftWall_917	4	4	22.8	0.4	0	162	45
STRIP	LeftWall_917	4	4	23.2	0.4	0	165.6	45
STRIP	LeftWall_917	4	4	23.6	0.4	0	169.2	45
STRIP	LeftWall_917	4	4	24	0.4	0	172.8	45
STRIP	LeftWall_917	4	4	24.4	0.4	0	176.4	45
STRIP	LeftWall_917	4	4	24.8	0.4	0	180	45
STRIP	LeftWall_917	4	4	25.2	0.4	0	183.6	45
STRIP	LeftWall_917	4	4	25.6	0.4	0	187.2	45
STRIP	LeftWall_917	4	4	26	0.4	0	190.8	45
STRIP	LeftWall_917	4	4	26.4	0.4	0	194.4	45
STRIP	LeftWall_917	4	4	26.8	0.4	0	198	45
STRIP	LeftWall_917	4	4	27.2	0.4	0	201.6	45
STRIP	LeftWall_917	4	4	27.6	0.4	0	205.2	45
STRIP	LeftWall_917	4	4	28	0.4	0	208.8	45
STRIP	LeftWall_917	4	4	28.4	0.4	0	212.4	45
STRIP	LeftWall_917	4	4	28.8	0.4	0	216	45
STRIP	LeftWall_917	4	4	29.2	0.4	0	219.6	45
STRIP	LeftWall_917	4	4	29.6	0.4	0	223.2	45
STRIP	LeftWall_917	4	4	30	0.4	0	226.8	45
STRIP	LeftWall_917	4	4	30.4	0.4	0	230.4	45
STRIP	LeftWall_917	4	4	30.8	0.4	0	234	45
STRIP	LeftWall_917	4	4	31.2	0.4	0	237.6	45
STRIP	LeftWall_917	4	4	31.6	0.4	0	241.2	45
STRIP	LeftWall_917	4	4	32	0.4	0	244.8	45
STRIP	LeftWall_917	4	4	32.4	0.4	0	248.4	45
STRIP	LeftWall_917	4	4	32.8	0.4	0	252	45
STRIP	LeftWall_917	4	4	33.2	0.4	0	255.6	45
STRIP	LeftWall_917	4	4	33.6	0.4	0	259.2	45
STRIP	LeftWall_917	4	4	34	0.4	0	262.8	45
STRIP	LeftWall_917	4	4	34.4	0.4	0	266.4	45
STRIP	LeftWall_917	5	5	4.8	0.4	0	0.45	45
STRIP	LeftWall_917	5	5	5.2	0.4	0	3.6	45
STRIP	LeftWall_917	5	5	5.6	0.4	0	7.2	45
STRIP	LeftWall_917	5	5	6	0.4	0	10.8	45
STRIP	LeftWall_917	5	5	6.4	0.4	0	14.4	45
STRIP	LeftWall_917	5	5	6.8	0.4	0	18	45
STRIP	LeftWall_917	5	5	7.2	0.4	0	21.6	45
STRIP	LeftWall_917	5	5	7.6	0.4	0	25.2	45
STRIP	LeftWall_917	5	5	8	0.4	0	28.8	45
STRIP	LeftWall_917	5	5	8.4	0.4	0	32.4	45
STRIP	LeftWall_917	5	5	8.8	0.4	0	36	45
STRIP	LeftWall_917	5	5	9.2	0.4	0	39.6	45
STRIP	LeftWall_917	5	5	9.6	0.4	0	43.2	45
STRIP	LeftWall_917	5	5	10	0.4	0	46.8	45
STRIP	LeftWall_917	5	5	10.4	0.4	0	50.4	45
STRIP	LeftWall_917	5	5	10.8	0.4	0	54	45
STRIP	LeftWall_917	5	5	11.2	0.4	0	57.6	45
STRIP	LeftWall_917	5	5	11.6	0.4	0	61.2	45
STRIP	LeftWall_917	5	5	12	0.4	0	64.8	45
STRIP	LeftWall_917	5	5	12.4	0.4	0	68.4	45
STRIP	LeftWall_917	5	5	12.8	0.4	0	72	45
STRIP	LeftWall_917	5	5	13.2	0.4	0	75.6	45
STRIP	LeftWall_917	5	5	13.6	0.4	0	79.2	45
STRIP	LeftWall_917	5	5	14	0.4	0	82.8	45
STRIP	LeftWall_917	5	5	14.4	0.4	0	86.4	45
STRIP	LeftWall_917	5	5	14.8	0.4	0	90	45
STRIP	LeftWall_917	5	5	15.2	0.4	0	93.6	45
STRIP	LeftWall_917	5	5	15.6	0.4	0	97.2	45
STRIP	LeftWall_917	5	5	16	0.4	0	100.8	45
STRIP	LeftWall_917	5	5	16.4	0.4	0	104.4	45
STRIP	LeftWall_917	5	5	16.8	0.4	0	108	45
STRIP	LeftWall_917	5	5	17.2	0.4	0	111.6	45
STRIP	LeftWall_917	5	5	17.6	0.4	0	115.2	45
STRIP	LeftWall_917	5	5	18	0.4	0	118.8	45
STRIP	LeftWall_917	5	5	18.4	0.4	0	122.4	45
STRIP	LeftWall_917	5	5	18.8	0.4	0	126	45
STRIP	LeftWall_917	5	5	19.2	0.4	0	129.6	45
STRIP	LeftWall_917	5	5	19.6	0.4	0	133.2	45
STRIP	LeftWall_917	5	5	20	0.4	0	136.8	45
STRIP	LeftWall_917	5	5	20.4	0.4	0	140.4	45
STRIP	LeftWall_917	5	5	20.8	0.4	0	144	45
STRIP	LeftWall_917	5	5	21.2	0.4	0	147.6	45
STRIP	LeftWall_917	5	5	21.6	0.4	0	151.2	45
STRIP	LeftWall_917	5	5	22	0.4	0	154.8	45
STRIP	LeftWall_917	5	5	22.4	0.4	0	158.4	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 5 5 22.8 0.4 0 162.45
STRIP LeftWall_917 5 5 23.2 0.4 0 165.6 45
STRIP LeftWall_917 5 5 23.6 0.4 0 169.2 45
STRIP LeftWall_917 5 5 24 0.4 0 172.8 45
STRIP LeftWall_917 5 5 24.4 0.4 0 176.4 45
STRIP LeftWall_917 5 5 24.8 0.4 0 180 45
STRIP LeftWall_917 5 5 25.2 0.4 0 183.6 45
STRIP LeftWall_917 5 5 25.6 0.4 0 187.2 45
STRIP LeftWall_917 5 5 26 0.4 0 190.8 45
STRIP LeftWall_917 5 5 26.4 0.4 0 194.4 45
STRIP LeftWall_917 5 5 26.8 0.4 0 198 45
STRIP LeftWall_917 5 5 27.2 0.4 0 201.6 45
STRIP LeftWall_917 5 5 27.6 0.4 0 205.2 45
STRIP LeftWall_917 5 5 28 0.4 0 208.8 45
STRIP LeftWall_917 5 5 28.4 0.4 0 212.4 45
STRIP LeftWall_917 5 5 28.8 0.4 0 216 45
STRIP LeftWall_917 5 5 29.2 0.4 0 219.6 45
STRIP LeftWall_917 5 5 29.6 0.4 0 223.2 45
STRIP LeftWall_917 5 5 30 0.4 0 226.8 45
STRIP LeftWall_917 5 5 30.4 0.4 0 230.4 45
STRIP LeftWall_917 5 5 30.8 0.4 0 234 45
STRIP LeftWall_917 5 5 31.2 0.4 0 237.6 45
STRIP LeftWall_917 5 5 31.6 0.4 0 241.2 45
STRIP LeftWall_917 5 5 32 0.4 0 244.8 45
STRIP LeftWall_917 5 5 32.4 0.4 0 248.4 45
STRIP LeftWall_917 5 5 32.8 0.4 0 252 45
STRIP LeftWall_917 5 5 33.2 0.4 0 255.6 45
STRIP LeftWall_917 5 5 33.6 0.4 0 259.2 45
STRIP LeftWall_917 5 5 34 0.4 0 262.8 45
STRIP LeftWall_917 5 5 34.4 0.4 0 266.4 45
STRIP LeftWall_917 6 6 4.8 0.4 0 0.45 45
STRIP LeftWall_917 6 6 5.2 0.4 0 3.6 45
STRIP LeftWall_917 6 6 5.6 0.4 0 7.2 45
STRIP LeftWall_917 6 6 6 0.4 0 10.8 45
STRIP LeftWall_917 6 6 6.4 0.4 0 14.4 45
STRIP LeftWall_917 6 6 6.8 0.4 0 18 45
STRIP LeftWall_917 6 6 7.2 0.4 0 21.6 45
STRIP LeftWall_917 6 6 7.6 0.4 0 25.2 45
STRIP LeftWall_917 6 6 8 0.4 0 28.8 45
STRIP LeftWall_917 6 6 8.4 0.4 0 32.4 45
STRIP LeftWall_917 6 6 8.8 0.4 0 36 45
STRIP LeftWall_917 6 6 9.2 0.4 0 39.6 45
STRIP LeftWall_917 6 6 9.6 0.4 0 43.2 45
STRIP LeftWall_917 6 6 10 0.4 0 46.8 45
STRIP LeftWall_917 6 6 10.4 0.4 0 50.4 45
STRIP LeftWall_917 6 6 10.8 0.4 0 54 45
STRIP LeftWall_917 6 6 11.2 0.4 0 57.6 45
STRIP LeftWall_917 6 6 11.6 0.4 0 61.2 45
STRIP LeftWall_917 6 6 12 0.4 0 64.8 45
STRIP LeftWall_917 6 6 12.4 0.4 0 68.4 45
STRIP LeftWall_917 6 6 12.8 0.4 0 72 45
STRIP LeftWall_917 6 6 13.2 0.4 0 75.6 45
STRIP LeftWall_917 6 6 13.6 0.4 0 79.2 45
STRIP LeftWall_917 6 6 14 0.4 0 82.8 45
STRIP LeftWall_917 6 6 14.4 0.4 0 86.4 45
STRIP LeftWall_917 6 6 14.8 0.4 0 90 45
STRIP LeftWall_917 6 6 15.2 0.4 0 93.6 45
STRIP LeftWall_917 6 6 15.6 0.4 0 97.2 45
STRIP LeftWall_917 6 6 16 0.4 0 100.8 45
STRIP LeftWall_917 6 6 16.4 0.4 0 104.4 45
STRIP LeftWall_917 6 6 16.8 0.4 0 108 45
STRIP LeftWall_917 6 6 17.2 0.4 0 111.6 45
STRIP LeftWall_917 6 6 17.6 0.4 0 115.2 45
STRIP LeftWall_917 6 6 18 0.4 0 118.8 45
STRIP LeftWall_917 6 6 18.4 0.4 0 122.4 45
STRIP LeftWall_917 6 6 18.8 0.4 0 126 45
STRIP LeftWall_917 6 6 19.2 0.4 0 129.6 45
STRIP LeftWall_917 6 6 19.6 0.4 0 133.2 45
STRIP LeftWall_917 6 6 20 0.4 0 136.8 45
STRIP LeftWall_917 6 6 20.4 0.4 0 140.4 45
STRIP LeftWall_917 6 6 20.8 0.4 0 144 45
STRIP LeftWall_917 6 6 21.2 0.4 0 147.6 45
STRIP LeftWall_917 6 6 21.6 0.4 0 151.2 45
STRIP LeftWall_917 6 6 22 0.4 0 154.8 45
STRIP LeftWall_917 6 6 22.4 0.4 0 158.4 45
STRIP LeftWall_917 6 6 22.8 0.4 0 162 45
STRIP LeftWall_917 6 6 23.2 0.4 0 165.6 45
STRIP LeftWall_917 6 6 23.6 0.4 0 169.2 45
STRIP LeftWall_917 6 6 24 0.4 0 172.8 45
STRIP LeftWall_917 6 6 24.4 0.4 0 176.4 45
STRIP LeftWall_917 6 6 24.8 0.4 0 180 45
STRIP LeftWall_917 6 6 25.2 0.4 0 183.6 45
STRIP LeftWall_917 6 6 25.6 0.4 0 187.2 45
STRIP LeftWall_917 6 6 26 0.4 0 190.8 45
STRIP LeftWall_917 6 6 26.4 0.4 0 194.4 45
STRIP LeftWall_917 6 6 26.8 0.4 0 198 45
STRIP LeftWall_917 6 6 27.2 0.4 0 201.6 45
STRIP LeftWall_917 6 6 27.6 0.4 0 205.2 45
STRIP LeftWall_917 6 6 28 0.4 0 208.8 45
STRIP LeftWall_917 6 6 28.4 0.4 0 212.4 45
STRIP LeftWall_917 6 6 28.8 0.4 0 216 45
STRIP LeftWall_917 6 6 29.2 0.4 0 219.6 45
STRIP LeftWall_917 6 6 29.6 0.4 0 223.2 45
STRIP LeftWall_917 6 6 30 0.4 0 226.8 45
STRIP LeftWall_917 6 6 30.4 0.4 0 230.4 45
STRIP LeftWall_917 6 6 30.8 0.4 0 234 45
STRIP LeftWall_917 6 6 31.2 0.4 0 237.6 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP	LeftWall_917	6	6	31.6	0.4	0	241.2	45
STRIP	LeftWall_917	6	6	32	0.4	0	244.8	45
STRIP	LeftWall_917	6	6	32.4	0.4	0	248.4	45
STRIP	LeftWall_917	6	6	32.8	0.4	0	252	45
STRIP	LeftWall_917	6	6	33.2	0.4	0	255.6	45
STRIP	LeftWall_917	6	6	33.6	0.4	0	259.2	45
STRIP	LeftWall_917	6	6	34	0.4	0	262.8	45
STRIP	LeftWall_917	6	6	34.4	0.4	0	266.4	45
STRIP	LeftWall_917	7	7	4.8	0.4	0	0.45	45
STRIP	LeftWall_917	7	7	5.2	0.4	0	3.6	45
STRIP	LeftWall_917	7	7	5.6	0.4	0	7.2	45
STRIP	LeftWall_917	7	7	6	0.4	0	10.8	45
STRIP	LeftWall_917	7	7	6.4	0.4	0	14.4	45
STRIP	LeftWall_917	7	7	6.8	0.4	0	18	45
STRIP	LeftWall_917	7	7	7.2	0.4	0	21.6	45
STRIP	LeftWall_917	7	7	7.6	0.4	0	25.2	45
STRIP	LeftWall_917	7	7	8	0.4	0	28.8	45
STRIP	LeftWall_917	7	7	8.4	0.4	0	32.4	45
STRIP	LeftWall_917	7	7	8.8	0.4	0	36	45
STRIP	LeftWall_917	7	7	9.2	0.4	0	39.6	45
STRIP	LeftWall_917	7	7	9.6	0.4	0	43.2	45
STRIP	LeftWall_917	7	7	10	0.4	0	46.8	45
STRIP	LeftWall_917	7	7	10.4	0.4	0	50.4	45
STRIP	LeftWall_917	7	7	10.8	0.4	0	54	45
STRIP	LeftWall_917	7	7	11.2	0.4	0	57.6	45
STRIP	LeftWall_917	7	7	11.6	0.4	0	61.2	45
STRIP	LeftWall_917	7	7	12	0.4	0	64.8	45
STRIP	LeftWall_917	7	7	12.4	0.4	0	68.4	45
STRIP	LeftWall_917	7	7	12.8	0.4	0	72	45
STRIP	LeftWall_917	7	7	13.2	0.4	0	75.6	45
STRIP	LeftWall_917	7	7	13.6	0.4	0	79.2	45
STRIP	LeftWall_917	7	7	14	0.4	0	82.8	45
STRIP	LeftWall_917	7	7	14.4	0.4	0	86.4	45
STRIP	LeftWall_917	7	7	14.8	0.4	0	90	45
STRIP	LeftWall_917	7	7	15.2	0.4	0	93.6	45
STRIP	LeftWall_917	7	7	15.6	0.4	0	97.2	45
STRIP	LeftWall_917	7	7	16	0.4	0	100.8	45
STRIP	LeftWall_917	7	7	16.4	0.4	0	104.4	45
STRIP	LeftWall_917	7	7	16.8	0.4	0	108	45
STRIP	LeftWall_917	7	7	17.2	0.4	0	111.6	45
STRIP	LeftWall_917	7	7	17.6	0.4	0	115.2	45
STRIP	LeftWall_917	7	7	18	0.4	0	118.8	45
STRIP	LeftWall_917	7	7	18.4	0.4	0	122.4	45
STRIP	LeftWall_917	7	7	18.8	0.4	0	126	45
STRIP	LeftWall_917	7	7	19.2	0.4	0	129.6	45
STRIP	LeftWall_917	7	7	19.6	0.4	0	133.2	45
STRIP	LeftWall_917	7	7	20	0.4	0	136.8	45
STRIP	LeftWall_917	7	7	20.4	0.4	0	140.4	45
STRIP	LeftWall_917	7	7	20.8	0.4	0	144	45
STRIP	LeftWall_917	7	7	21.2	0.4	0	147.6	45
STRIP	LeftWall_917	7	7	21.6	0.4	0	151.2	45
STRIP	LeftWall_917	7	7	22	0.4	0	154.8	45
STRIP	LeftWall_917	7	7	22.4	0.4	0	158.4	45
STRIP	LeftWall_917	7	7	22.8	0.4	0	162	45
STRIP	LeftWall_917	7	7	23.2	0.4	0	165.6	45
STRIP	LeftWall_917	7	7	23.6	0.4	0	169.2	45
STRIP	LeftWall_917	7	7	24	0.4	0	172.8	45
STRIP	LeftWall_917	7	7	24.4	0.4	0	176.4	45
STRIP	LeftWall_917	7	7	24.8	0.4	0	180	45
STRIP	LeftWall_917	7	7	25.2	0.4	0	183.6	45
STRIP	LeftWall_917	7	7	25.6	0.4	0	187.2	45
STRIP	LeftWall_917	7	7	26	0.4	0	190.8	45
STRIP	LeftWall_917	7	7	26.4	0.4	0	194.4	45
STRIP	LeftWall_917	7	7	26.8	0.4	0	198	45
STRIP	LeftWall_917	7	7	27.2	0.4	0	201.6	45
STRIP	LeftWall_917	7	7	27.6	0.4	0	205.2	45
STRIP	LeftWall_917	7	7	28	0.4	0	208.8	45
STRIP	LeftWall_917	7	7	28.4	0.4	0	212.4	45
STRIP	LeftWall_917	7	7	28.8	0.4	0	216	45
STRIP	LeftWall_917	7	7	29.2	0.4	0	219.6	45
STRIP	LeftWall_917	7	7	29.6	0.4	0	223.2	45
STRIP	LeftWall_917	7	7	30	0.4	0	226.8	45
STRIP	LeftWall_917	7	7	30.4	0.4	0	230.4	45
STRIP	LeftWall_917	7	7	30.8	0.4	0	234	45
STRIP	LeftWall_917	7	7	31.2	0.4	0	237.6	45
STRIP	LeftWall_917	7	7	31.6	0.4	0	241.2	45
STRIP	LeftWall_917	7	7	32	0.4	0	244.8	45
STRIP	LeftWall_917	7	7	32.4	0.4	0	248.4	45
STRIP	LeftWall_917	7	7	32.8	0.4	0	252	45
STRIP	LeftWall_917	7	7	33.2	0.4	0	255.6	45
STRIP	LeftWall_917	7	7	33.6	0.4	0	259.2	45
STRIP	LeftWall_917	7	7	34	0.4	0	262.8	45
STRIP	LeftWall_917	7	7	34.4	0.4	0	266.4	45
STRIP	LeftWall_917	8	8	4.8	0.4	0	0.45	45
STRIP	LeftWall_917	8	8	5.2	0.4	0	3.6	45
STRIP	LeftWall_917	8	8	5.6	0.4	0	7.2	45
STRIP	LeftWall_917	8	8	6	0.4	0	10.8	45
STRIP	LeftWall_917	8	8	6.4	0.4	0	14.4	45
STRIP	LeftWall_917	8	8	6.8	0.4	0	18	45
STRIP	LeftWall_917	8	8	7.2	0.4	0	21.6	45
STRIP	LeftWall_917	8	8	7.6	0.4	0	25.2	45
STRIP	LeftWall_917	8	8	8	0.4	0	28.8	45
STRIP	LeftWall_917	8	8	8.4	0.4	0	32.4	45
STRIP	LeftWall_917	8	8	8.8	0.4	0	36	45
STRIP	LeftWall_917	8	8	9.2	0.4	0	39.6	45
STRIP	LeftWall_917	8	8	9.6	0.4	0	43.2	45
STRIP	LeftWall_917	8	8	10	0.4	0	46.8	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 8 8 10.4 0.4 0 50.4 45
STRIP LeftWall_917 8 8 10.8 0.4 0 54 45
STRIP LeftWall_917 8 8 11.2 0.4 0 57.6 45
STRIP LeftWall_917 8 8 11.6 0.4 0 61.2 45
STRIP LeftWall_917 8 8 12 0.4 0 64.8 45
STRIP LeftWall_917 8 8 12.4 0.4 0 68.4 45
STRIP LeftWall_917 8 8 12.8 0.4 0 72 45
STRIP LeftWall_917 8 8 13.2 0.4 0 75.6 45
STRIP LeftWall_917 8 8 13.6 0.4 0 79.2 45
STRIP LeftWall_917 8 8 14 0.4 0 82.8 45
STRIP LeftWall_917 8 8 14.4 0.4 0 86.4 45
STRIP LeftWall_917 8 8 14.8 0.4 0 90 45
STRIP LeftWall_917 8 8 15.2 0.4 0 93.6 45
STRIP LeftWall_917 8 8 15.6 0.4 0 97.2 45
STRIP LeftWall_917 8 8 16 0.4 0 100.8 45
STRIP LeftWall_917 8 8 16.4 0.4 0 104.4 45
STRIP LeftWall_917 8 8 16.8 0.4 0 108 45
STRIP LeftWall_917 8 8 17.2 0.4 0 111.6 45
STRIP LeftWall_917 8 8 17.6 0.4 0 115.2 45
STRIP LeftWall_917 8 8 18 0.4 0 118.8 45
STRIP LeftWall_917 8 8 18.4 0.4 0 122.4 45
STRIP LeftWall_917 8 8 18.8 0.4 0 126 45
STRIP LeftWall_917 8 8 19.2 0.4 0 129.6 45
STRIP LeftWall_917 8 8 19.6 0.4 0 133.2 45
STRIP LeftWall_917 8 8 20 0.4 0 136.8 45
STRIP LeftWall_917 8 8 20.4 0.4 0 140.4 45
STRIP LeftWall_917 8 8 20.8 0.4 0 144 45
STRIP LeftWall_917 8 8 21.2 0.4 0 147.6 45
STRIP LeftWall_917 8 8 21.6 0.4 0 151.2 45
STRIP LeftWall_917 8 8 22 0.4 0 154.8 45
STRIP LeftWall_917 8 8 22.4 0.4 0 158.4 45
STRIP LeftWall_917 8 8 22.8 0.4 0 162 45
STRIP LeftWall_917 8 8 23.2 0.4 0 165.6 45
STRIP LeftWall_917 8 8 23.6 0.4 0 169.2 45
STRIP LeftWall_917 8 8 24 0.4 0 172.8 45
STRIP LeftWall_917 8 8 24.4 0.4 0 176.4 45
STRIP LeftWall_917 8 8 24.8 0.4 0 180 45
STRIP LeftWall_917 8 8 25.2 0.4 0 183.6 45
STRIP LeftWall_917 8 8 25.6 0.4 0 187.2 45
STRIP LeftWall_917 8 8 26 0.4 0 190.8 45
STRIP LeftWall_917 8 8 26.4 0.4 0 194.4 45
STRIP LeftWall_917 8 8 26.8 0.4 0 198 45
STRIP LeftWall_917 8 8 27.2 0.4 0 201.6 45
STRIP LeftWall_917 8 8 27.6 0.4 0 205.2 45
STRIP LeftWall_917 8 8 28 0.4 0 208.8 45
STRIP LeftWall_917 8 8 28.4 0.4 0 212.4 45
STRIP LeftWall_917 8 8 28.8 0.4 0 216 45
STRIP LeftWall_917 8 8 29.2 0.4 0 219.6 45
STRIP LeftWall_917 8 8 29.6 0.4 0 223.2 45
STRIP LeftWall_917 8 8 30 0.4 0 226.8 45
STRIP LeftWall_917 8 8 30.4 0.4 0 230.4 45
STRIP LeftWall_917 8 8 30.8 0.4 0 234 45
STRIP LeftWall_917 8 8 31.2 0.4 0 237.6 45
STRIP LeftWall_917 8 8 31.6 0.4 0 241.2 45
STRIP LeftWall_917 8 8 32 0.4 0 244.8 45
STRIP LeftWall_917 8 8 32.4 0.4 0 248.4 45
STRIP LeftWall_917 8 8 32.8 0.4 0 252 45
STRIP LeftWall_917 8 8 33.2 0.4 0 255.6 45
STRIP LeftWall_917 8 8 33.6 0.4 0 259.2 45
STRIP LeftWall_917 8 8 34 0.4 0 262.8 45
STRIP LeftWall_917 8 8 34.4 0.4 0 266.4 45
STRIP LeftWall_917 9 9 4.8 0.4 0 0.45 45
STRIP LeftWall_917 9 9 5.2 0.4 0 3.6 45
STRIP LeftWall_917 9 9 5.6 0.4 0 7.2 45
STRIP LeftWall_917 9 9 6 0.4 0 10.8 45
STRIP LeftWall_917 9 9 6.4 0.4 0 14.4 45
STRIP LeftWall_917 9 9 6.8 0.4 0 18 45
STRIP LeftWall_917 9 9 7.2 0.4 0 21.6 45
STRIP LeftWall_917 9 9 7.6 0.4 0 25.2 45
STRIP LeftWall_917 9 9 8 0.4 0 28.8 45
STRIP LeftWall_917 9 9 8.4 0.4 0 32.4 45
STRIP LeftWall_917 9 9 8.8 0.4 0 36 45
STRIP LeftWall_917 9 9 9.2 0.4 0 39.6 45
STRIP LeftWall_917 9 9 9.6 0.4 0 43.2 45
STRIP LeftWall_917 9 9 10 0.4 0 46.8 45
STRIP LeftWall_917 9 9 10.4 0.4 0 50.4 45
STRIP LeftWall_917 9 9 10.8 0.4 0 54 45
STRIP LeftWall_917 9 9 11.2 0.4 0 57.6 45
STRIP LeftWall_917 9 9 11.6 0.4 0 61.2 45
STRIP LeftWall_917 9 9 12 0.4 0 64.8 45
STRIP LeftWall_917 9 9 12.4 0.4 0 68.4 45
STRIP LeftWall_917 9 9 12.8 0.4 0 72 45
STRIP LeftWall_917 9 9 13.2 0.4 0 75.6 45
STRIP LeftWall_917 9 9 13.6 0.4 0 79.2 45
STRIP LeftWall_917 9 9 14 0.4 0 82.8 45
STRIP LeftWall_917 9 9 14.4 0.4 0 86.4 45
STRIP LeftWall_917 9 9 14.8 0.4 0 90 45
STRIP LeftWall_917 9 9 15.2 0.4 0 93.6 45
STRIP LeftWall_917 9 9 15.6 0.4 0 97.2 45
STRIP LeftWall_917 9 9 16 0.4 0 100.8 45
STRIP LeftWall_917 9 9 16.4 0.4 0 104.4 45
STRIP LeftWall_917 9 9 16.8 0.4 0 108 45
STRIP LeftWall_917 9 9 17.2 0.4 0 111.6 45
STRIP LeftWall_917 9 9 17.6 0.4 0 115.2 45
STRIP LeftWall_917 9 9 18 0.4 0 118.8 45
STRIP LeftWall_917 9 9 18.4 0.4 0 122.4 45
STRIP LeftWall_917 9 9 18.8 0.4 0 126 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP	LeftWall_917	9	9	19.2	0.4	0	129.6	45
STRIP	LeftWall_917	9	9	19.6	0.4	0	133.2	45
STRIP	LeftWall_917	9	9	20	0.4	0	136.8	45
STRIP	LeftWall_917	9	9	20.4	0.4	0	140.4	45
STRIP	LeftWall_917	9	9	20.8	0.4	0	144	45
STRIP	LeftWall_917	9	9	21.2	0.4	0	147.6	45
STRIP	LeftWall_917	9	9	21.6	0.4	0	151.2	45
STRIP	LeftWall_917	9	9	22	0.4	0	154.8	45
STRIP	LeftWall_917	9	9	22.4	0.4	0	158.4	45
STRIP	LeftWall_917	9	9	22.8	0.4	0	162	45
STRIP	LeftWall_917	9	9	23.2	0.4	0	165.6	45
STRIP	LeftWall_917	9	9	23.6	0.4	0	169.2	45
STRIP	LeftWall_917	9	9	24	0.4	0	172.8	45
STRIP	LeftWall_917	9	9	24.4	0.4	0	176.4	45
STRIP	LeftWall_917	9	9	24.8	0.4	0	180	45
STRIP	LeftWall_917	9	9	25.2	0.4	0	183.6	45
STRIP	LeftWall_917	9	9	25.6	0.4	0	187.2	45
STRIP	LeftWall_917	9	9	26	0.4	0	190.8	45
STRIP	LeftWall_917	9	9	26.4	0.4	0	194.4	45
STRIP	LeftWall_917	9	9	26.8	0.4	0	198	45
STRIP	LeftWall_917	9	9	27.2	0.4	0	201.6	45
STRIP	LeftWall_917	9	9	27.6	0.4	0	205.2	45
STRIP	LeftWall_917	9	9	28	0.4	0	208.8	45
STRIP	LeftWall_917	9	9	28.4	0.4	0	212.4	45
STRIP	LeftWall_917	9	9	28.8	0.4	0	216	45
STRIP	LeftWall_917	9	9	29.2	0.4	0	219.6	45
STRIP	LeftWall_917	9	9	29.6	0.4	0	223.2	45
STRIP	LeftWall_917	9	9	30	0.4	0	226.8	45
STRIP	LeftWall_917	9	9	30.4	0.4	0	230.4	45
STRIP	LeftWall_917	9	9	30.8	0.4	0	234	45
STRIP	LeftWall_917	9	9	31.2	0.4	0	237.6	45
STRIP	LeftWall_917	9	9	31.6	0.4	0	241.2	45
STRIP	LeftWall_917	9	9	32	0.4	0	244.8	45
STRIP	LeftWall_917	9	9	32.4	0.4	0	248.4	45
STRIP	LeftWall_917	9	9	32.8	0.4	0	252	45
STRIP	LeftWall_917	9	9	33.2	0.4	0	255.6	45
STRIP	LeftWall_917	9	9	33.6	0.4	0	259.2	45
STRIP	LeftWall_917	9	9	34	0.4	0	262.8	45
STRIP	LeftWall_917	9	9	34.4	0.4	0	266.4	45
STRIP	LeftWall_917	10	10	4.8	0.4	0	0.45	45
STRIP	LeftWall_917	10	10	5.2	0.4	0	3.6	45
STRIP	LeftWall_917	10	10	5.6	0.4	0	7.2	45
STRIP	LeftWall_917	10	10	6	0.4	0	10.8	45
STRIP	LeftWall_917	10	10	6.4	0.4	0	14.4	45
STRIP	LeftWall_917	10	10	6.8	0.4	0	18	45
STRIP	LeftWall_917	10	10	7.2	0.4	0	21.6	45
STRIP	LeftWall_917	10	10	7.6	0.4	0	25.2	45
STRIP	LeftWall_917	10	10	8	0.4	0	28.8	45
STRIP	LeftWall_917	10	10	8.4	0.4	0	32.4	45
STRIP	LeftWall_917	10	10	8.8	0.4	0	36	45
STRIP	LeftWall_917	10	10	9.2	0.4	0	39.6	45
STRIP	LeftWall_917	10	10	9.6	0.4	0	43.2	45
STRIP	LeftWall_917	10	10	10	0.4	0	46.8	45
STRIP	LeftWall_917	10	10	10.4	0.4	0	50.4	45
STRIP	LeftWall_917	10	10	10.8	0.4	0	54	45
STRIP	LeftWall_917	10	10	11.2	0.4	0	57.6	45
STRIP	LeftWall_917	10	10	11.6	0.4	0	61.2	45
STRIP	LeftWall_917	10	10	12	0.4	0	64.8	45
STRIP	LeftWall_917	10	10	12.4	0.4	0	68.4	45
STRIP	LeftWall_917	10	10	12.8	0.4	0	72	45
STRIP	LeftWall_917	10	10	13.2	0.4	0	75.6	45
STRIP	LeftWall_917	10	10	13.6	0.4	0	79.2	45
STRIP	LeftWall_917	10	10	14	0.4	0	82.8	45
STRIP	LeftWall_917	10	10	14.4	0.4	0	86.4	45
STRIP	LeftWall_917	10	10	14.8	0.4	0	90	45
STRIP	LeftWall_917	10	10	15.2	0.4	0	93.6	45
STRIP	LeftWall_917	10	10	15.6	0.4	0	97.2	45
STRIP	LeftWall_917	10	10	16	0.4	0	100.8	45
STRIP	LeftWall_917	10	10	16.4	0.4	0	104.4	45
STRIP	LeftWall_917	10	10	16.8	0.4	0	108	45
STRIP	LeftWall_917	10	10	17.2	0.4	0	111.6	45
STRIP	LeftWall_917	10	10	17.6	0.4	0	115.2	45
STRIP	LeftWall_917	10	10	18	0.4	0	118.8	45
STRIP	LeftWall_917	10	10	18.4	0.4	0	122.4	45
STRIP	LeftWall_917	10	10	18.8	0.4	0	126	45
STRIP	LeftWall_917	10	10	19.2	0.4	0	129.6	45
STRIP	LeftWall_917	10	10	19.6	0.4	0	133.2	45
STRIP	LeftWall_917	10	10	20	0.4	0	136.8	45
STRIP	LeftWall_917	10	10	20.4	0.4	0	140.4	45
STRIP	LeftWall_917	10	10	20.8	0.4	0	144	45
STRIP	LeftWall_917	10	10	21.2	0.4	0	147.6	45
STRIP	LeftWall_917	10	10	21.6	0.4	0	151.2	45
STRIP	LeftWall_917	10	10	22	0.4	0	154.8	45
STRIP	LeftWall_917	10	10	22.4	0.4	0	158.4	45
STRIP	LeftWall_917	10	10	22.8	0.4	0	162	45
STRIP	LeftWall_917	10	10	23.2	0.4	0	165.6	45
STRIP	LeftWall_917	10	10	23.6	0.4	0	169.2	45
STRIP	LeftWall_917	10	10	24	0.4	0	172.8	45
STRIP	LeftWall_917	10	10	24.4	0.4	0	176.4	45
STRIP	LeftWall_917	10	10	24.8	0.4	0	180	45
STRIP	LeftWall_917	10	10	25.2	0.4	0	183.6	45
STRIP	LeftWall_917	10	10	25.6	0.4	0	187.2	45
STRIP	LeftWall_917	10	10	26	0.4	0	190.8	45
STRIP	LeftWall_917	10	10	26.4	0.4	0	194.4	45
STRIP	LeftWall_917	10	10	26.8	0.4	0	198	45
STRIP	LeftWall_917	10	10	27.2	0.4	0	201.6	45
STRIP	LeftWall_917	10	10	27.6	0.4	0	205.2	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 10 10 28 0.4 0 208.8 45
STRIP LeftWall_917 10 10 28.4 0.4 0 212.4 45
STRIP LeftWall_917 10 10 28.8 0.4 0 216 45
STRIP LeftWall_917 10 10 29.2 0.4 0 219.6 45
STRIP LeftWall_917 10 10 29.6 0.4 0 223.2 45
STRIP LeftWall_917 10 10 30 0.4 0 226.8 45
STRIP LeftWall_917 10 10 30.4 0.4 0 230.4 45
STRIP LeftWall_917 10 10 30.8 0.4 0 234 45
STRIP LeftWall_917 10 10 31.2 0.4 0 237.6 45
STRIP LeftWall_917 10 10 31.6 0.4 0 241.2 45
STRIP LeftWall_917 10 10 32 0.4 0 244.8 45
STRIP LeftWall_917 10 10 32.4 0.4 0 248.4 45
STRIP LeftWall_917 10 10 32.8 0.4 0 252 45
STRIP LeftWall_917 10 10 33.2 0.4 0 255.6 45
STRIP LeftWall_917 10 10 33.6 0.4 0 259.2 45
STRIP LeftWall_917 10 10 34 0.4 0 262.8 45
STRIP LeftWall_917 10 10 34.4 0.4 0 266.4 45
STRIP LeftWall_917 11 11 4.8 0.4 0 0.45 45
STRIP LeftWall_917 11 11 5.2 0.4 0 3.6 45
STRIP LeftWall_917 11 11 5.6 0.4 0 7.2 45
STRIP LeftWall_917 11 11 6 0.4 0 10.8 45
STRIP LeftWall_917 11 11 6.4 0.4 0 14.4 45
STRIP LeftWall_917 11 11 6.8 0.4 0 18 45
STRIP LeftWall_917 11 11 7.2 0.4 0 21.6 45
STRIP LeftWall_917 11 11 7.6 0.4 0 25.2 45
STRIP LeftWall_917 11 11 8 0.4 0 28.8 45
STRIP LeftWall_917 11 11 8.4 0.4 0 32.4 45
STRIP LeftWall_917 11 11 8.8 0.4 0 36 45
STRIP LeftWall_917 11 11 9.2 0.4 0 39.6 45
STRIP LeftWall_917 11 11 9.6 0.4 0 43.2 45
STRIP LeftWall_917 11 11 10 0.4 0 46.8 45
STRIP LeftWall_917 11 11 10.4 0.4 0 50.4 45
STRIP LeftWall_917 11 11 10.8 0.4 0 54 45
STRIP LeftWall_917 11 11 11.2 0.4 0 57.6 45
STRIP LeftWall_917 11 11 11.6 0.4 0 61.2 45
STRIP LeftWall_917 11 11 12 0.4 0 64.8 45
STRIP LeftWall_917 11 11 12.4 0.4 0 68.4 45
STRIP LeftWall_917 11 11 12.8 0.4 0 72 45
STRIP LeftWall_917 11 11 13.2 0.4 0 75.6 45
STRIP LeftWall_917 11 11 13.6 0.4 0 79.2 45
STRIP LeftWall_917 11 11 14 0.4 0 82.8 45
STRIP LeftWall_917 11 11 14.4 0.4 0 86.4 45
STRIP LeftWall_917 11 11 14.8 0.4 0 90 45
STRIP LeftWall_917 11 11 15.2 0.4 0 93.6 45
STRIP LeftWall_917 11 11 15.6 0.4 0 97.2 45
STRIP LeftWall_917 11 11 16 0.4 0 100.8 45
STRIP LeftWall_917 11 11 16.4 0.4 0 104.4 45
STRIP LeftWall_917 11 11 16.8 0.4 0 108 45
STRIP LeftWall_917 11 11 17.2 0.4 0 111.6 45
STRIP LeftWall_917 11 11 17.6 0.4 0 115.2 45
STRIP LeftWall_917 11 11 18 0.4 0 118.8 45
STRIP LeftWall_917 11 11 18.4 0.4 0 122.4 45
STRIP LeftWall_917 11 11 18.8 0.4 0 126 45
STRIP LeftWall_917 11 11 19.2 0.4 0 129.6 45
STRIP LeftWall_917 11 11 19.6 0.4 0 133.2 45
STRIP LeftWall_917 11 11 20 0.4 0 136.8 45
STRIP LeftWall_917 11 11 20.4 0.4 0 140.4 45
STRIP LeftWall_917 11 11 20.8 0.4 0 144 45
STRIP LeftWall_917 11 11 21.2 0.4 0 147.6 45
STRIP LeftWall_917 11 11 21.6 0.4 0 151.2 45
STRIP LeftWall_917 11 11 22 0.4 0 154.8 45
STRIP LeftWall_917 11 11 22.4 0.4 0 158.4 45
STRIP LeftWall_917 11 11 22.8 0.4 0 162 45
STRIP LeftWall_917 11 11 23.2 0.4 0 165.6 45
STRIP LeftWall_917 11 11 23.6 0.4 0 169.2 45
STRIP LeftWall_917 11 11 24 0.4 0 172.8 45
STRIP LeftWall_917 11 11 24.4 0.4 0 176.4 45
STRIP LeftWall_917 11 11 24.8 0.4 0 180 45
STRIP LeftWall_917 11 11 25.2 0.4 0 183.6 45
STRIP LeftWall_917 11 11 25.6 0.4 0 187.2 45
STRIP LeftWall_917 11 11 26 0.4 0 190.8 45
STRIP LeftWall_917 11 11 26.4 0.4 0 194.4 45
STRIP LeftWall_917 11 11 26.8 0.4 0 198 45
STRIP LeftWall_917 11 11 27.2 0.4 0 201.6 45
STRIP LeftWall_917 11 11 27.6 0.4 0 205.2 45
STRIP LeftWall_917 11 11 28 0.4 0 208.8 45
STRIP LeftWall_917 11 11 28.4 0.4 0 212.4 45
STRIP LeftWall_917 11 11 28.8 0.4 0 216 45
STRIP LeftWall_917 11 11 29.2 0.4 0 219.6 45
STRIP LeftWall_917 11 11 29.6 0.4 0 223.2 45
STRIP LeftWall_917 11 11 30 0.4 0 226.8 45
STRIP LeftWall_917 11 11 30.4 0.4 0 230.4 45
STRIP LeftWall_917 11 11 30.8 0.4 0 234 45
STRIP LeftWall_917 11 11 31.2 0.4 0 237.6 45
STRIP LeftWall_917 11 11 31.6 0.4 0 241.2 45
STRIP LeftWall_917 11 11 32 0.4 0 244.8 45
STRIP LeftWall_917 11 11 32.4 0.4 0 248.4 45
STRIP LeftWall_917 11 11 32.8 0.4 0 252 45
STRIP LeftWall_917 11 11 33.2 0.4 0 255.6 45
STRIP LeftWall_917 11 11 33.6 0.4 0 259.2 45
STRIP LeftWall_917 11 11 34 0.4 0 262.8 45
STRIP LeftWall_917 11 11 34.4 0.4 0 266.4 45

* 7: Defining Steps

STEP Stepn.0Condizioniiiniziali_924

CHANGE Coltredeiritica_2_905_L_0 U-FRICT=30 LeftWall_917

CHANGE Coltredeiritica_2_905_L_0 D-FRICT=30 LeftWall_917

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

```
CHANGE Coltredestrita_2_905_L_0 U-KA=0.333 LeftWall_917
CHANGE Coltredestrita_2_905_L_0 U-KP=4.288 LeftWall_917
CHANGE Coltredestrita_2_905_L_0 D-KA=0.333 LeftWall_917
CHANGE Coltredestrita_2_905_L_0 D-KP=4.288 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KP=5.879 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KP=5.879 LeftWall_917
CHANGE Coltredestrita_2_905_L_0 U-COHE=0 LeftWall_917
CHANGE Coltredestrita_2_905_L_0 U-ADHES=0 LeftWall_917
CHANGE Coltredestrita_2_905_L_0 D-COHE=0 LeftWall_917
CHANGE Coltredestrita_2_905_L_0 D-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-ADHES=0 LeftWall_917
SETWALL LeftWall_917
GEOM 0 0
SURCHARGE 0 0 0 0
WATER -30 0 -13 0 0
ADD LeftWallElement_1092
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.1Fasediscavo1-Fase1_935
SETWALL LeftWall_917
GEOM 0 -3.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.2Fasediscavo1-Fase2_953
SETWALL LeftWall_917
GEOM 0 -3.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -13 0 0
ADD Tirantiesistenti+587.00_965
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.3Fasediscavo2-Fase1_973
SETWALL LeftWall_917
GEOM 0 -6.25
SURCHARGE 0 0 0 -6.25
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.4Fasediscavo2-Fase2_991
SETWALL LeftWall_917
GEOM 0 -6.25
SURCHARGE 0 0 0 -6.25
WATER -30 0 -13 0 0
ADD Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.5Fasefinalisediscavoes_1011
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.6Primotirantenuovo_1029
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
ADD TirantinuoviT3_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.7Secondotirantenuovo_1049
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
ADD TirantinuoviT1_3735
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage8Rilasciotirantiesist_3737
SETWALL LeftWall_917
GEOM 0 -9.6
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
REMOVE Tirantiesistenti+587.00_965 Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage9Scavodiprogetto_17297
SETWALL LeftWall_917
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

```
GEOM 0 -10.5
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage10Sisma_5719
SETWALL LeftWall_917
GEOM 0 -10.5
SURCHARGE 0 0 0 -9
WATER -30 0 -13 0 0
CHANGE Coltredestritica_2_905_L_0 U-KAED=0.59647 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KAEW=1.0372 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KPED=3.9463 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KPEW=2.4763 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KAED=0.52506 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KAEW=1.2417 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KPED=2.627 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KPEW=0.85515 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KAED=0.5003 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KAEW=0.7327 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KPED=5.5548 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KPEW=4.3355 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KAED=0.4404 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KAEW=0.7799 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KPED=3.7695 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KPEW=2.3816 LeftWall_917
EQK USER 0.2897 0.14485 -0.14485 0 0.5 0 0.5 0 0
* Defining seismic surcharge pressures on wall LeftWall_917
*   min elevation = -10.5
*   max elevation = 0
*   average gamma = 20.1428571428571
*   kh = 0.2897
*   deltaQ = 241.256728125
DLOAD step LeftWall_917 -10.5 22.977 0 22.977
* Include pressure Contribution from wall: LeftWall_917
* Include wall contribution
DLOAD step LeftWall_917 -10.5 0.41256 0 0.41256
VARIABLE LeftWallElement_1092 0.5
ENDSTEP
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



11 ALLEGATO 02: SEZIONE 2 FILE INPUT PARATIE PLUS

11.1 Design Assumption : Nominal - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: Nominal
* Time:mercoledì 14 dicembre 2022 10:35:59
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_917 0 -18 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_917 -18 0 1 0
SOIL 0_R LeftWall_917 -18 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Coltredetrica_2_905_L_0)
*
LDATA Coltredetrica_2_905_L_0 30 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 18 10 10
PERMEABILITY 1E-05
RESISTANCE 0 30 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 30000 48000
ENDDL
*
* Soil Profile (Marnaarenacea_8_906_L_0)
*
LDATA Marnaarenacea_8_906_L_0 -3 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 21 13 10
PERMEABILITY 0.0001
RESISTANCE 100 35 0 0 0
TZDATA LINEAR 20000 0 30 0.5 0
KSCALE 0 0
YOUNG 1E+06 1.6E+06
ENDDL

* 5: Defining structural materials
* Rebar material: 54 Name=Strands 270 ksi E=200100000 kPa
MATERIAL Strands270ksi_54 2.001E+08
* Concrete material: 1093 Name=C20/25 E=29962000 kPa
MATERIAL C2025_1093 2.9962E+07
* Steel material: 43 Name=Fe510 E=206000200 kPa
MATERIAL Fe510_43 2.06E+08

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later
BEAM LeftWallElement_1092 LeftWall_917 -18 0 Fe510_43 0.080792 0.018495 4.3946E-05 1.4241 00 00 0

* 6.2: Supports
WIRE Tirantiesistenti+591.00_965 LeftWall_917 -3.3 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+587.00_1003 LeftWall_917 -7.3 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+584.00_3643 LeftWall_917 -10.3 Strands270ksi_54 1.9501E-05 62.5 15 0 0
WIRE TirantinuoviT1_3735 LeftWall_917 -1.8 Strands270ksi_54 1.611E-05 62.5 15 0 0
WIRE TirantinuoviT2_10346 LeftWall_917 -5.3 Strands270ksi_54 1.611E-05 62.5 15 0 0
WIRE TirantinuoviT3_10599 LeftWall_917 -12.3 Strands270ksi_54 1.9501E-05 62.5 15 0 0

* 6.3: Strips
* (slope contribution)
STRIP LeftWall_917 1 1 0 0.4 0 1.7196 45
STRIP LeftWall_917 1 1 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 1 1 0.8 0.4 0 8.598 45
STRIP LeftWall_917 1 1 1.2 0.4 0 12.037 45
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



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Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 1 1 1.6 0.4 0 15.476 45
STRIP LeftWall_917 1 1 2 0.4 0 18.916 45
STRIP LeftWall_917 1 1 2.4 0.4 0 22.355 45
STRIP LeftWall_917 1 1 2.8 0.4 0 25.794 45
STRIP LeftWall_917 1 1 3.2 0.4 0 29.233 45
STRIP LeftWall_917 1 1 3.6 0.4 0 32.672 45
STRIP LeftWall_917 1 1 4 0.4 0 36.112 45
STRIP LeftWall_917 1 1 4.4 0.4 0 39.551 45
STRIP LeftWall_917 1 1 4.8 0.4 0 42.99 45
STRIP LeftWall_917 1 1 5.2 0.4 0 46.429 45
STRIP LeftWall_917 1 1 5.6 0.4 0 49.868 45
STRIP LeftWall_917 1 1 6 0.4 0 53.308 45
STRIP LeftWall_917 1 1 6.4 0.4 0 56.747 45
STRIP LeftWall_917 1 1 6.8 0.4 0 60.186 45
STRIP LeftWall_917 1 1 7.2 0.4 0 63.625 45
STRIP LeftWall_917 1 1 7.6 0.4 0 67.064 45
STRIP LeftWall_917 1 1 8 0.4 0 70.504 45
STRIP LeftWall_917 1 1 8.4 0.4 0 73.943 45
STRIP LeftWall_917 1 1 8.8 0.4 0 77.382 45
STRIP LeftWall_917 1 1 9.2 0.4 0 80.821 45
STRIP LeftWall_917 1 1 9.6 0.4 0 84.26 45
STRIP LeftWall_917 1 1 10 0.4 0 87.7 45
STRIP LeftWall_917 1 1 10.4 0.4 0 91.139 45
STRIP LeftWall_917 1 1 10.8 0.4 0 94.578 45
STRIP LeftWall_917 1 1 11.2 0.4 0 98.017 45
STRIP LeftWall_917 1 1 11.6 0.4 0 101.46 45
STRIP LeftWall_917 1 1 12 0.4 0 104.9 45
STRIP LeftWall_917 1 1 12.4 0.4 0 108.33 45
STRIP LeftWall_917 1 1 12.8 0.4 0 111.77 45
STRIP LeftWall_917 1 1 13.2 0.4 0 115.21 45
STRIP LeftWall_917 1 1 13.6 0.4 0 118.65 45
STRIP LeftWall_917 1 1 14 0.4 0 122.09 45
STRIP LeftWall_917 1 1 14.4 0.4 0 125.53 45
STRIP LeftWall_917 1 1 14.8 0.4 0 128.97 45
STRIP LeftWall_917 1 1 15.2 0.4 0 132.41 45
STRIP LeftWall_917 1 1 15.6 0.4 0 135.85 45
STRIP LeftWall_917 1 1 16 0.4 0 139.29 45
STRIP LeftWall_917 1 1 16.4 0.4 0 142.73 45
STRIP LeftWall_917 1 1 16.8 0.4 0 146.17 45
STRIP LeftWall_917 1 1 17.2 0.4 0 149.61 45
STRIP LeftWall_917 1 1 17.6 0.4 0 153.04 45
STRIP LeftWall_917 1 1 18 0.4 0 156.48 45
STRIP LeftWall_917 1 1 18.4 0.4 0 159.92 45
STRIP LeftWall_917 1 1 18.8 0.4 0 163.36 45
STRIP LeftWall_917 1 1 19.2 0.4 0 166.8 45
STRIP LeftWall_917 1 1 19.6 0.4 0 170.24 45
STRIP LeftWall_917 1 1 20 0.4 0 173.68 45
STRIP LeftWall_917 1 1 20.4 0.4 0 177.12 45
STRIP LeftWall_917 1 1 20.8 0.4 0 180.56 45
STRIP LeftWall_917 1 1 21.2 0.4 0 184 45
STRIP LeftWall_917 1 1 21.6 0.4 0 187.44 45
STRIP LeftWall_917 1 1 22 0.4 0 190.88 45
STRIP LeftWall_917 1 1 22.4 0.4 0 194.31 45
STRIP LeftWall_917 1 1 22.8 0.4 0 197.75 45
STRIP LeftWall_917 1 1 23.2 0.4 0 201.19 45
STRIP LeftWall_917 1 1 23.6 0.4 0 204.63 45
STRIP LeftWall_917 1 1 24 0.4 0 208.07 45
STRIP LeftWall_917 1 1 24.4 0.4 0 211.51 45
STRIP LeftWall_917 1 1 24.8 0.4 0 214.95 45
STRIP LeftWall_917 1 1 25.2 0.4 0 218.39 45
STRIP LeftWall_917 1 1 25.6 0.4 0 221.83 45
STRIP LeftWall_917 1 1 26 0.4 0 225.27 45
STRIP LeftWall_917 1 1 26.4 0.4 0 228.71 45
STRIP LeftWall_917 1 1 26.8 0.4 0 232.15 45
STRIP LeftWall_917 1 1 27.2 0.4 0 235.59 45
STRIP LeftWall_917 1 1 27.6 0.4 0 239.02 45
STRIP LeftWall_917 1 1 28 0.4 0 242.46 45
STRIP LeftWall_917 1 1 28.4 0.4 0 245.9 45
STRIP LeftWall_917 1 1 28.8 0.4 0 249.34 45
STRIP LeftWall_917 1 1 29.2 0.4 0 252.78 45
STRIP LeftWall_917 1 1 29.6 0.4 0 256.22 45
STRIP LeftWall_917 2 2 0 0.4 0 1.7196 45
STRIP LeftWall_917 2 2 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 2 2 0.8 0.4 0 8.598 45
STRIP LeftWall_917 2 2 1.2 0.4 0 12.037 45
STRIP LeftWall_917 2 2 1.6 0.4 0 15.476 45
STRIP LeftWall_917 2 2 2 0.4 0 18.916 45
STRIP LeftWall_917 2 2 2.4 0.4 0 22.355 45
STRIP LeftWall_917 2 2 2.8 0.4 0 25.794 45
STRIP LeftWall_917 2 2 3.2 0.4 0 29.233 45
STRIP LeftWall_917 2 2 3.6 0.4 0 32.672 45
STRIP LeftWall_917 2 2 4 0.4 0 36.112 45
STRIP LeftWall_917 2 2 4.4 0.4 0 39.551 45
STRIP LeftWall_917 2 2 4.8 0.4 0 42.99 45
STRIP LeftWall_917 2 2 5.2 0.4 0 46.429 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 2 2 5.6 0.4 0 49.868 45
STRIP LeftWall_917 2 2 6 0.4 0 53.308 45
STRIP LeftWall_917 2 2 6.4 0.4 0 56.747 45
STRIP LeftWall_917 2 2 6.8 0.4 0 60.186 45
STRIP LeftWall_917 2 2 7.2 0.4 0 63.625 45
STRIP LeftWall_917 2 2 7.6 0.4 0 67.064 45
STRIP LeftWall_917 2 2 8 0.4 0 70.504 45
STRIP LeftWall_917 2 2 8.4 0.4 0 73.943 45
STRIP LeftWall_917 2 2 8.8 0.4 0 77.382 45
STRIP LeftWall_917 2 2 9.2 0.4 0 80.821 45
STRIP LeftWall_917 2 2 9.6 0.4 0 84.26 45
STRIP LeftWall_917 2 2 10 0.4 0 87.7 45
STRIP LeftWall_917 2 2 10.4 0.4 0 91.139 45
STRIP LeftWall_917 2 2 10.8 0.4 0 94.578 45
STRIP LeftWall_917 2 2 11.2 0.4 0 98.017 45
STRIP LeftWall_917 2 2 11.6 0.4 0 101.46 45
STRIP LeftWall_917 2 2 12 0.4 0 104.9 45
STRIP LeftWall_917 2 2 12.4 0.4 0 108.33 45
STRIP LeftWall_917 2 2 12.8 0.4 0 111.77 45
STRIP LeftWall_917 2 2 13.2 0.4 0 115.21 45
STRIP LeftWall_917 2 2 13.6 0.4 0 118.65 45
STRIP LeftWall_917 2 2 14 0.4 0 122.09 45
STRIP LeftWall_917 2 2 14.4 0.4 0 125.53 45
STRIP LeftWall_917 2 2 14.8 0.4 0 128.97 45
STRIP LeftWall_917 2 2 15.2 0.4 0 132.41 45
STRIP LeftWall_917 2 2 15.6 0.4 0 135.85 45
STRIP LeftWall_917 2 2 16 0.4 0 139.29 45
STRIP LeftWall_917 2 2 16.4 0.4 0 142.73 45
STRIP LeftWall_917 2 2 16.8 0.4 0 146.17 45
STRIP LeftWall_917 2 2 17.2 0.4 0 149.61 45
STRIP LeftWall_917 2 2 17.6 0.4 0 153.04 45
STRIP LeftWall_917 2 2 18 0.4 0 156.48 45
STRIP LeftWall_917 2 2 18.4 0.4 0 159.92 45
STRIP LeftWall_917 2 2 18.8 0.4 0 163.36 45
STRIP LeftWall_917 2 2 19.2 0.4 0 166.8 45
STRIP LeftWall_917 2 2 19.6 0.4 0 170.24 45
STRIP LeftWall_917 2 2 20 0.4 0 173.68 45
STRIP LeftWall_917 2 2 20.4 0.4 0 177.12 45
STRIP LeftWall_917 2 2 20.8 0.4 0 180.56 45
STRIP LeftWall_917 2 2 21.2 0.4 0 184 45
STRIP LeftWall_917 2 2 21.6 0.4 0 187.44 45
STRIP LeftWall_917 2 2 22 0.4 0 190.88 45
STRIP LeftWall_917 2 2 22.4 0.4 0 194.31 45
STRIP LeftWall_917 2 2 22.8 0.4 0 197.75 45
STRIP LeftWall_917 2 2 23.2 0.4 0 201.19 45
STRIP LeftWall_917 2 2 23.6 0.4 0 204.63 45
STRIP LeftWall_917 2 2 24 0.4 0 208.07 45
STRIP LeftWall_917 2 2 24.4 0.4 0 211.51 45
STRIP LeftWall_917 2 2 24.8 0.4 0 214.95 45
STRIP LeftWall_917 2 2 25.2 0.4 0 218.39 45
STRIP LeftWall_917 2 2 25.6 0.4 0 221.83 45
STRIP LeftWall_917 2 2 26 0.4 0 225.27 45
STRIP LeftWall_917 2 2 26.4 0.4 0 228.71 45
STRIP LeftWall_917 2 2 26.8 0.4 0 232.15 45
STRIP LeftWall_917 2 2 27.2 0.4 0 235.59 45
STRIP LeftWall_917 2 2 27.6 0.4 0 239.02 45
STRIP LeftWall_917 2 2 28 0.4 0 242.46 45
STRIP LeftWall_917 2 2 28.4 0.4 0 245.9 45
STRIP LeftWall_917 2 2 28.8 0.4 0 249.34 45
STRIP LeftWall_917 2 2 29.2 0.4 0 252.78 45
STRIP LeftWall_917 2 2 29.6 0.4 0 256.22 45
STRIP LeftWall_917 3 3 0 0.4 0 1.7196 45
STRIP LeftWall_917 3 3 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 3 3 0.8 0.4 0 8.598 45
STRIP LeftWall_917 3 3 1.2 0.4 0 12.037 45
STRIP LeftWall_917 3 3 1.6 0.4 0 15.476 45
STRIP LeftWall_917 3 3 2 0.4 0 18.916 45
STRIP LeftWall_917 3 3 2.4 0.4 0 22.355 45
STRIP LeftWall_917 3 3 2.8 0.4 0 25.794 45
STRIP LeftWall_917 3 3 3.2 0.4 0 29.233 45
STRIP LeftWall_917 3 3 3.6 0.4 0 32.672 45
STRIP LeftWall_917 3 3 4 0.4 0 36.112 45
STRIP LeftWall_917 3 3 4.4 0.4 0 39.551 45
STRIP LeftWall_917 3 3 4.8 0.4 0 42.99 45
STRIP LeftWall_917 3 3 5.2 0.4 0 46.429 45
STRIP LeftWall_917 3 3 5.6 0.4 0 49.868 45
STRIP LeftWall_917 3 3 6 0.4 0 53.308 45
STRIP LeftWall_917 3 3 6.4 0.4 0 56.747 45
STRIP LeftWall_917 3 3 6.8 0.4 0 60.186 45
STRIP LeftWall_917 3 3 7.2 0.4 0 63.625 45
STRIP LeftWall_917 3 3 7.6 0.4 0 67.064 45
STRIP LeftWall_917 3 3 8 0.4 0 70.504 45
STRIP LeftWall_917 3 3 8.4 0.4 0 73.943 45
STRIP LeftWall_917 3 3 8.8 0.4 0 77.382 45
STRIP LeftWall_917 3 3 9.2 0.4 0 80.821 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 3 3 9.6 0.4 0 84.26 45
STRIP LeftWall_917 3 3 10 0.4 0 87.7 45
STRIP LeftWall_917 3 3 10.4 0.4 0 91.139 45
STRIP LeftWall_917 3 3 10.8 0.4 0 94.578 45
STRIP LeftWall_917 3 3 11.2 0.4 0 98.017 45
STRIP LeftWall_917 3 3 11.6 0.4 0 101.46 45
STRIP LeftWall_917 3 3 12 0.4 0 104.9 45
STRIP LeftWall_917 3 3 12.4 0.4 0 108.33 45
STRIP LeftWall_917 3 3 12.8 0.4 0 111.77 45
STRIP LeftWall_917 3 3 13.2 0.4 0 115.21 45
STRIP LeftWall_917 3 3 13.6 0.4 0 118.65 45
STRIP LeftWall_917 3 3 14 0.4 0 122.09 45
STRIP LeftWall_917 3 3 14.4 0.4 0 125.53 45
STRIP LeftWall_917 3 3 14.8 0.4 0 128.97 45
STRIP LeftWall_917 3 3 15.2 0.4 0 132.41 45
STRIP LeftWall_917 3 3 15.6 0.4 0 135.85 45
STRIP LeftWall_917 3 3 16 0.4 0 139.29 45
STRIP LeftWall_917 3 3 16.4 0.4 0 142.73 45
STRIP LeftWall_917 3 3 16.8 0.4 0 146.17 45
STRIP LeftWall_917 3 3 17.2 0.4 0 149.61 45
STRIP LeftWall_917 3 3 17.6 0.4 0 153.04 45
STRIP LeftWall_917 3 3 18 0.4 0 156.48 45
STRIP LeftWall_917 3 3 18.4 0.4 0 159.92 45
STRIP LeftWall_917 3 3 18.8 0.4 0 163.36 45
STRIP LeftWall_917 3 3 19.2 0.4 0 166.8 45
STRIP LeftWall_917 3 3 19.6 0.4 0 170.24 45
STRIP LeftWall_917 3 3 20 0.4 0 173.68 45
STRIP LeftWall_917 3 3 20.4 0.4 0 177.12 45
STRIP LeftWall_917 3 3 20.8 0.4 0 180.56 45
STRIP LeftWall_917 3 3 21.2 0.4 0 184 45
STRIP LeftWall_917 3 3 21.6 0.4 0 187.44 45
STRIP LeftWall_917 3 3 22 0.4 0 190.88 45
STRIP LeftWall_917 3 3 22.4 0.4 0 194.31 45
STRIP LeftWall_917 3 3 22.8 0.4 0 197.75 45
STRIP LeftWall_917 3 3 23.2 0.4 0 201.19 45
STRIP LeftWall_917 3 3 23.6 0.4 0 204.63 45
STRIP LeftWall_917 3 3 24 0.4 0 208.07 45
STRIP LeftWall_917 3 3 24.4 0.4 0 211.51 45
STRIP LeftWall_917 3 3 24.8 0.4 0 214.95 45
STRIP LeftWall_917 3 3 25.2 0.4 0 218.39 45
STRIP LeftWall_917 3 3 25.6 0.4 0 221.83 45
STRIP LeftWall_917 3 3 26 0.4 0 225.27 45
STRIP LeftWall_917 3 3 26.4 0.4 0 228.71 45
STRIP LeftWall_917 3 3 26.8 0.4 0 232.15 45
STRIP LeftWall_917 3 3 27.2 0.4 0 235.59 45
STRIP LeftWall_917 3 3 27.6 0.4 0 239.02 45
STRIP LeftWall_917 3 3 28 0.4 0 242.46 45
STRIP LeftWall_917 3 3 28.4 0.4 0 245.9 45
STRIP LeftWall_917 3 3 28.8 0.4 0 249.34 45
STRIP LeftWall_917 3 3 29.2 0.4 0 252.78 45
STRIP LeftWall_917 3 3 29.6 0.4 0 256.22 45
STRIP LeftWall_917 4 4 0 0.4 0 1.7196 45
STRIP LeftWall_917 4 4 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 4 4 0.8 0.4 0 8.598 45
STRIP LeftWall_917 4 4 1.2 0.4 0 12.037 45
STRIP LeftWall_917 4 4 1.6 0.4 0 15.476 45
STRIP LeftWall_917 4 4 2 0.4 0 18.916 45
STRIP LeftWall_917 4 4 2.4 0.4 0 22.355 45
STRIP LeftWall_917 4 4 2.8 0.4 0 25.794 45
STRIP LeftWall_917 4 4 3.2 0.4 0 29.233 45
STRIP LeftWall_917 4 4 3.6 0.4 0 32.672 45
STRIP LeftWall_917 4 4 4 0.4 0 36.112 45
STRIP LeftWall_917 4 4 4.4 0.4 0 39.551 45
STRIP LeftWall_917 4 4 4.8 0.4 0 42.99 45
STRIP LeftWall_917 4 4 5.2 0.4 0 46.429 45
STRIP LeftWall_917 4 4 5.6 0.4 0 49.868 45
STRIP LeftWall_917 4 4 6 0.4 0 53.308 45
STRIP LeftWall_917 4 4 6.4 0.4 0 56.747 45
STRIP LeftWall_917 4 4 6.8 0.4 0 60.186 45
STRIP LeftWall_917 4 4 7.2 0.4 0 63.625 45
STRIP LeftWall_917 4 4 7.6 0.4 0 67.064 45
STRIP LeftWall_917 4 4 8 0.4 0 70.504 45
STRIP LeftWall_917 4 4 8.4 0.4 0 73.943 45
STRIP LeftWall_917 4 4 8.8 0.4 0 77.382 45
STRIP LeftWall_917 4 4 9.2 0.4 0 80.821 45
STRIP LeftWall_917 4 4 9.6 0.4 0 84.26 45
STRIP LeftWall_917 4 4 10 0.4 0 87.7 45
STRIP LeftWall_917 4 4 10.4 0.4 0 91.139 45
STRIP LeftWall_917 4 4 10.8 0.4 0 94.578 45
STRIP LeftWall_917 4 4 11.2 0.4 0 98.017 45
STRIP LeftWall_917 4 4 11.6 0.4 0 101.46 45
STRIP LeftWall_917 4 4 12 0.4 0 104.9 45
STRIP LeftWall_917 4 4 12.4 0.4 0 108.33 45
STRIP LeftWall_917 4 4 12.8 0.4 0 111.77 45
STRIP LeftWall_917 4 4 13.2 0.4 0 115.21 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	4	4	13.6	0.4	0	118.65	45
STRIP LeftWall_917	4	4	14	0.4	0	122.09	45
STRIP LeftWall_917	4	4	14.4	0.4	0	125.53	45
STRIP LeftWall_917	4	4	14.8	0.4	0	128.97	45
STRIP LeftWall_917	4	4	15.2	0.4	0	132.41	45
STRIP LeftWall_917	4	4	15.6	0.4	0	135.85	45
STRIP LeftWall_917	4	4	16	0.4	0	139.29	45
STRIP LeftWall_917	4	4	16.4	0.4	0	142.73	45
STRIP LeftWall_917	4	4	16.8	0.4	0	146.17	45
STRIP LeftWall_917	4	4	17.2	0.4	0	149.61	45
STRIP LeftWall_917	4	4	17.6	0.4	0	153.04	45
STRIP LeftWall_917	4	4	18	0.4	0	156.48	45
STRIP LeftWall_917	4	4	18.4	0.4	0	159.92	45
STRIP LeftWall_917	4	4	18.8	0.4	0	163.36	45
STRIP LeftWall_917	4	4	19.2	0.4	0	166.8	45
STRIP LeftWall_917	4	4	19.6	0.4	0	170.24	45
STRIP LeftWall_917	4	4	20	0.4	0	173.68	45
STRIP LeftWall_917	4	4	20.4	0.4	0	177.12	45
STRIP LeftWall_917	4	4	20.8	0.4	0	180.56	45
STRIP LeftWall_917	4	4	21.2	0.4	0	184	45
STRIP LeftWall_917	4	4	21.6	0.4	0	187.44	45
STRIP LeftWall_917	4	4	22	0.4	0	190.88	45
STRIP LeftWall_917	4	4	22.4	0.4	0	194.31	45
STRIP LeftWall_917	4	4	22.8	0.4	0	197.75	45
STRIP LeftWall_917	4	4	23.2	0.4	0	201.19	45
STRIP LeftWall_917	4	4	23.6	0.4	0	204.63	45
STRIP LeftWall_917	4	4	24	0.4	0	208.07	45
STRIP LeftWall_917	4	4	24.4	0.4	0	211.51	45
STRIP LeftWall_917	4	4	24.8	0.4	0	214.95	45
STRIP LeftWall_917	4	4	25.2	0.4	0	218.39	45
STRIP LeftWall_917	4	4	25.6	0.4	0	221.83	45
STRIP LeftWall_917	4	4	26	0.4	0	225.27	45
STRIP LeftWall_917	4	4	26.4	0.4	0	228.71	45
STRIP LeftWall_917	4	4	26.8	0.4	0	232.15	45
STRIP LeftWall_917	4	4	27.2	0.4	0	235.59	45
STRIP LeftWall_917	4	4	27.6	0.4	0	239.02	45
STRIP LeftWall_917	4	4	28	0.4	0	242.46	45
STRIP LeftWall_917	4	4	28.4	0.4	0	245.9	45
STRIP LeftWall_917	4	4	28.8	0.4	0	249.34	45
STRIP LeftWall_917	4	4	29.2	0.4	0	252.78	45
STRIP LeftWall_917	4	4	29.6	0.4	0	256.22	45
STRIP LeftWall_917	5	5	0	0.4	0	1.7196	45
STRIP LeftWall_917	5	5	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	5	5	0.8	0.4	0	8.598	45
STRIP LeftWall_917	5	5	1.2	0.4	0	12.037	45
STRIP LeftWall_917	5	5	1.6	0.4	0	15.476	45
STRIP LeftWall_917	5	5	2	0.4	0	18.916	45
STRIP LeftWall_917	5	5	2.4	0.4	0	22.355	45
STRIP LeftWall_917	5	5	2.8	0.4	0	25.794	45
STRIP LeftWall_917	5	5	3.2	0.4	0	29.233	45
STRIP LeftWall_917	5	5	3.6	0.4	0	32.672	45
STRIP LeftWall_917	5	5	4	0.4	0	36.112	45
STRIP LeftWall_917	5	5	4.4	0.4	0	39.551	45
STRIP LeftWall_917	5	5	4.8	0.4	0	42.99	45
STRIP LeftWall_917	5	5	5.2	0.4	0	46.429	45
STRIP LeftWall_917	5	5	5.6	0.4	0	49.868	45
STRIP LeftWall_917	5	5	6	0.4	0	53.308	45
STRIP LeftWall_917	5	5	6.4	0.4	0	56.747	45
STRIP LeftWall_917	5	5	6.8	0.4	0	60.186	45
STRIP LeftWall_917	5	5	7.2	0.4	0	63.625	45
STRIP LeftWall_917	5	5	7.6	0.4	0	67.064	45
STRIP LeftWall_917	5	5	8	0.4	0	70.504	45
STRIP LeftWall_917	5	5	8.4	0.4	0	73.943	45
STRIP LeftWall_917	5	5	8.8	0.4	0	77.382	45
STRIP LeftWall_917	5	5	9.2	0.4	0	80.821	45
STRIP LeftWall_917	5	5	9.6	0.4	0	84.26	45
STRIP LeftWall_917	5	5	10	0.4	0	87.7	45
STRIP LeftWall_917	5	5	10.4	0.4	0	91.139	45
STRIP LeftWall_917	5	5	10.8	0.4	0	94.578	45
STRIP LeftWall_917	5	5	11.2	0.4	0	98.017	45
STRIP LeftWall_917	5	5	11.6	0.4	0	101.46	45
STRIP LeftWall_917	5	5	12	0.4	0	104.9	45
STRIP LeftWall_917	5	5	12.4	0.4	0	108.33	45
STRIP LeftWall_917	5	5	12.8	0.4	0	111.77	45
STRIP LeftWall_917	5	5	13.2	0.4	0	115.21	45
STRIP LeftWall_917	5	5	13.6	0.4	0	118.65	45
STRIP LeftWall_917	5	5	14	0.4	0	122.09	45
STRIP LeftWall_917	5	5	14.4	0.4	0	125.53	45
STRIP LeftWall_917	5	5	14.8	0.4	0	128.97	45
STRIP LeftWall_917	5	5	15.2	0.4	0	132.41	45
STRIP LeftWall_917	5	5	15.6	0.4	0	135.85	45
STRIP LeftWall_917	5	5	16	0.4	0	139.29	45
STRIP LeftWall_917	5	5	16.4	0.4	0	142.73	45
STRIP LeftWall_917	5	5	16.8	0.4	0	146.17	45
STRIP LeftWall_917	5	5	17.2	0.4	0	149.61	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 5 5 17.6 0.4 0 153.04 45
STRIP LeftWall_917 5 5 18 0.4 0 156.48 45
STRIP LeftWall_917 5 5 18.4 0.4 0 159.92 45
STRIP LeftWall_917 5 5 18.8 0.4 0 163.36 45
STRIP LeftWall_917 5 5 19.2 0.4 0 166.8 45
STRIP LeftWall_917 5 5 19.6 0.4 0 170.24 45
STRIP LeftWall_917 5 5 20 0.4 0 173.68 45
STRIP LeftWall_917 5 5 20.4 0.4 0 177.12 45
STRIP LeftWall_917 5 5 20.8 0.4 0 180.56 45
STRIP LeftWall_917 5 5 21.2 0.4 0 184 45
STRIP LeftWall_917 5 5 21.6 0.4 0 187.44 45
STRIP LeftWall_917 5 5 22 0.4 0 190.88 45
STRIP LeftWall_917 5 5 22.4 0.4 0 194.32 45
STRIP LeftWall_917 5 5 22.8 0.4 0 197.76 45
STRIP LeftWall_917 5 5 23.2 0.4 0 201.2 45
STRIP LeftWall_917 5 5 23.6 0.4 0 204.64 45
STRIP LeftWall_917 5 5 24 0.4 0 208.08 45
STRIP LeftWall_917 5 5 24.4 0.4 0 211.52 45
STRIP LeftWall_917 5 5 24.8 0.4 0 214.96 45
STRIP LeftWall_917 5 5 25.2 0.4 0 218.4 45
STRIP LeftWall_917 5 5 25.6 0.4 0 221.84 45
STRIP LeftWall_917 5 5 26 0.4 0 225.28 45
STRIP LeftWall_917 5 5 26.4 0.4 0 228.72 45
STRIP LeftWall_917 5 5 26.8 0.4 0 232.16 45
STRIP LeftWall_917 5 5 27.2 0.4 0 235.6 45
STRIP LeftWall_917 5 5 27.6 0.4 0 239.04 45
STRIP LeftWall_917 5 5 28 0.4 0 242.48 45
STRIP LeftWall_917 5 5 28.4 0.4 0 245.92 45
STRIP LeftWall_917 5 5 28.8 0.4 0 249.36 45
STRIP LeftWall_917 5 5 29.2 0.4 0 252.8 45
STRIP LeftWall_917 5 5 29.6 0.4 0 256.24 45
STRIP LeftWall_917 6 6 0 0.4 0 1.7196 45
STRIP LeftWall_917 6 6 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 6 6 0.8 0.4 0 8.598 45
STRIP LeftWall_917 6 6 1.2 0.4 0 12.037 45
STRIP LeftWall_917 6 6 1.6 0.4 0 15.476 45
STRIP LeftWall_917 6 6 2 0.4 0 18.916 45
STRIP LeftWall_917 6 6 2.4 0.4 0 22.355 45
STRIP LeftWall_917 6 6 2.8 0.4 0 25.794 45
STRIP LeftWall_917 6 6 3.2 0.4 0 29.233 45
STRIP LeftWall_917 6 6 3.6 0.4 0 32.672 45
STRIP LeftWall_917 6 6 4 0.4 0 36.112 45
STRIP LeftWall_917 6 6 4.4 0.4 0 39.551 45
STRIP LeftWall_917 6 6 4.8 0.4 0 42.99 45
STRIP LeftWall_917 6 6 5.2 0.4 0 46.429 45
STRIP LeftWall_917 6 6 5.6 0.4 0 49.868 45
STRIP LeftWall_917 6 6 6 0.4 0 53.308 45
STRIP LeftWall_917 6 6 6.4 0.4 0 56.747 45
STRIP LeftWall_917 6 6 6.8 0.4 0 60.186 45
STRIP LeftWall_917 6 6 7.2 0.4 0 63.625 45
STRIP LeftWall_917 6 6 7.6 0.4 0 67.064 45
STRIP LeftWall_917 6 6 8 0.4 0 70.504 45
STRIP LeftWall_917 6 6 8.4 0.4 0 73.943 45
STRIP LeftWall_917 6 6 8.8 0.4 0 77.382 45
STRIP LeftWall_917 6 6 9.2 0.4 0 80.821 45
STRIP LeftWall_917 6 6 9.6 0.4 0 84.26 45
STRIP LeftWall_917 6 6 10 0.4 0 87.7 45
STRIP LeftWall_917 6 6 10.4 0.4 0 91.139 45
STRIP LeftWall_917 6 6 10.8 0.4 0 94.578 45
STRIP LeftWall_917 6 6 11.2 0.4 0 98.017 45
STRIP LeftWall_917 6 6 11.6 0.4 0 101.46 45
STRIP LeftWall_917 6 6 12 0.4 0 104.9 45
STRIP LeftWall_917 6 6 12.4 0.4 0 108.33 45
STRIP LeftWall_917 6 6 12.8 0.4 0 111.77 45
STRIP LeftWall_917 6 6 13.2 0.4 0 115.21 45
STRIP LeftWall_917 6 6 13.6 0.4 0 118.65 45
STRIP LeftWall_917 6 6 14 0.4 0 122.09 45
STRIP LeftWall_917 6 6 14.4 0.4 0 125.53 45
STRIP LeftWall_917 6 6 14.8 0.4 0 128.97 45
STRIP LeftWall_917 6 6 15.2 0.4 0 132.41 45
STRIP LeftWall_917 6 6 15.6 0.4 0 135.85 45
STRIP LeftWall_917 6 6 16 0.4 0 139.29 45
STRIP LeftWall_917 6 6 16.4 0.4 0 142.73 45
STRIP LeftWall_917 6 6 16.8 0.4 0 146.17 45
STRIP LeftWall_917 6 6 17.2 0.4 0 149.61 45
STRIP LeftWall_917 6 6 17.6 0.4 0 153.04 45
STRIP LeftWall_917 6 6 18 0.4 0 156.48 45
STRIP LeftWall_917 6 6 18.4 0.4 0 159.92 45
STRIP LeftWall_917 6 6 18.8 0.4 0 163.36 45
STRIP LeftWall_917 6 6 19.2 0.4 0 166.8 45
STRIP LeftWall_917 6 6 19.6 0.4 0 170.24 45
STRIP LeftWall_917 6 6 20 0.4 0 173.68 45
STRIP LeftWall_917 6 6 20.4 0.4 0 177.12 45
STRIP LeftWall_917 6 6 20.8 0.4 0 180.56 45
STRIP LeftWall_917 6 6 21.2 0.4 0 184 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 6 6 21.6 0.4 0 187.44 45
STRIP LeftWall_917 6 6 22 0.4 0 190.88 45
STRIP LeftWall_917 6 6 22.4 0.4 0 194.31 45
STRIP LeftWall_917 6 6 22.8 0.4 0 197.75 45
STRIP LeftWall_917 6 6 23.2 0.4 0 201.19 45
STRIP LeftWall_917 6 6 23.6 0.4 0 204.63 45
STRIP LeftWall_917 6 6 24 0.4 0 208.07 45
STRIP LeftWall_917 6 6 24.4 0.4 0 211.51 45
STRIP LeftWall_917 6 6 24.8 0.4 0 214.95 45
STRIP LeftWall_917 6 6 25.2 0.4 0 218.39 45
STRIP LeftWall_917 6 6 25.6 0.4 0 221.83 45
STRIP LeftWall_917 6 6 26 0.4 0 225.27 45
STRIP LeftWall_917 6 6 26.4 0.4 0 228.71 45
STRIP LeftWall_917 6 6 26.8 0.4 0 232.15 45
STRIP LeftWall_917 6 6 27.2 0.4 0 235.59 45
STRIP LeftWall_917 6 6 27.6 0.4 0 239.02 45
STRIP LeftWall_917 6 6 28 0.4 0 242.46 45
STRIP LeftWall_917 6 6 28.4 0.4 0 245.9 45
STRIP LeftWall_917 6 6 28.8 0.4 0 249.34 45
STRIP LeftWall_917 6 6 29.2 0.4 0 252.78 45
STRIP LeftWall_917 6 6 29.6 0.4 0 256.22 45
STRIP LeftWall_917 7 7 0 0.4 0 1.7196 45
STRIP LeftWall_917 7 7 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 7 7 0.8 0.4 0 8.598 45
STRIP LeftWall_917 7 7 1.2 0.4 0 12.037 45
STRIP LeftWall_917 7 7 1.6 0.4 0 15.476 45
STRIP LeftWall_917 7 7 2 0.4 0 18.916 45
STRIP LeftWall_917 7 7 2.4 0.4 0 22.355 45
STRIP LeftWall_917 7 7 2.8 0.4 0 25.794 45
STRIP LeftWall_917 7 7 3.2 0.4 0 29.233 45
STRIP LeftWall_917 7 7 3.6 0.4 0 32.672 45
STRIP LeftWall_917 7 7 4 0.4 0 36.112 45
STRIP LeftWall_917 7 7 4.4 0.4 0 39.551 45
STRIP LeftWall_917 7 7 4.8 0.4 0 42.99 45
STRIP LeftWall_917 7 7 5.2 0.4 0 46.429 45
STRIP LeftWall_917 7 7 5.6 0.4 0 49.868 45
STRIP LeftWall_917 7 7 6 0.4 0 53.308 45
STRIP LeftWall_917 7 7 6.4 0.4 0 56.747 45
STRIP LeftWall_917 7 7 6.8 0.4 0 60.186 45
STRIP LeftWall_917 7 7 7.2 0.4 0 63.625 45
STRIP LeftWall_917 7 7 7.6 0.4 0 67.064 45
STRIP LeftWall_917 7 7 8 0.4 0 70.504 45
STRIP LeftWall_917 7 7 8.4 0.4 0 73.943 45
STRIP LeftWall_917 7 7 8.8 0.4 0 77.382 45
STRIP LeftWall_917 7 7 9.2 0.4 0 80.821 45
STRIP LeftWall_917 7 7 9.6 0.4 0 84.26 45
STRIP LeftWall_917 7 7 10 0.4 0 87.7 45
STRIP LeftWall_917 7 7 10.4 0.4 0 91.139 45
STRIP LeftWall_917 7 7 10.8 0.4 0 94.578 45
STRIP LeftWall_917 7 7 11.2 0.4 0 98.017 45
STRIP LeftWall_917 7 7 11.6 0.4 0 101.46 45
STRIP LeftWall_917 7 7 12 0.4 0 104.9 45
STRIP LeftWall_917 7 7 12.4 0.4 0 108.33 45
STRIP LeftWall_917 7 7 12.8 0.4 0 111.77 45
STRIP LeftWall_917 7 7 13.2 0.4 0 115.21 45
STRIP LeftWall_917 7 7 13.6 0.4 0 118.65 45
STRIP LeftWall_917 7 7 14 0.4 0 122.09 45
STRIP LeftWall_917 7 7 14.4 0.4 0 125.53 45
STRIP LeftWall_917 7 7 14.8 0.4 0 128.97 45
STRIP LeftWall_917 7 7 15.2 0.4 0 132.41 45
STRIP LeftWall_917 7 7 15.6 0.4 0 135.85 45
STRIP LeftWall_917 7 7 16 0.4 0 139.29 45
STRIP LeftWall_917 7 7 16.4 0.4 0 142.73 45
STRIP LeftWall_917 7 7 16.8 0.4 0 146.17 45
STRIP LeftWall_917 7 7 17.2 0.4 0 149.61 45
STRIP LeftWall_917 7 7 17.6 0.4 0 153.04 45
STRIP LeftWall_917 7 7 18 0.4 0 156.48 45
STRIP LeftWall_917 7 7 18.4 0.4 0 159.92 45
STRIP LeftWall_917 7 7 18.8 0.4 0 163.36 45
STRIP LeftWall_917 7 7 19.2 0.4 0 166.8 45
STRIP LeftWall_917 7 7 19.6 0.4 0 170.24 45
STRIP LeftWall_917 7 7 20 0.4 0 173.68 45
STRIP LeftWall_917 7 7 20.4 0.4 0 177.12 45
STRIP LeftWall_917 7 7 20.8 0.4 0 180.56 45
STRIP LeftWall_917 7 7 21.2 0.4 0 184 45
STRIP LeftWall_917 7 7 21.6 0.4 0 187.44 45
STRIP LeftWall_917 7 7 22 0.4 0 190.88 45
STRIP LeftWall_917 7 7 22.4 0.4 0 194.31 45
STRIP LeftWall_917 7 7 22.8 0.4 0 197.75 45
STRIP LeftWall_917 7 7 23.2 0.4 0 201.19 45
STRIP LeftWall_917 7 7 23.6 0.4 0 204.63 45
STRIP LeftWall_917 7 7 24 0.4 0 208.07 45
STRIP LeftWall_917 7 7 24.4 0.4 0 211.51 45
STRIP LeftWall_917 7 7 24.8 0.4 0 214.95 45
STRIP LeftWall_917 7 7 25.2 0.4 0 218.39 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 7 7 25.6 0.4 0 221.83 45
STRIP LeftWall_917 7 7 26 0.4 0 225.27 45
STRIP LeftWall_917 7 7 26.4 0.4 0 228.71 45
STRIP LeftWall_917 7 7 26.8 0.4 0 232.15 45
STRIP LeftWall_917 7 7 27.2 0.4 0 235.59 45
STRIP LeftWall_917 7 7 27.6 0.4 0 239.02 45
STRIP LeftWall_917 7 7 28 0.4 0 242.46 45
STRIP LeftWall_917 7 7 28.4 0.4 0 245.9 45
STRIP LeftWall_917 7 7 28.8 0.4 0 249.34 45
STRIP LeftWall_917 7 7 29.2 0.4 0 252.78 45
STRIP LeftWall_917 7 7 29.6 0.4 0 256.22 45
STRIP LeftWall_917 8 8 0 0.4 0 1.7196 45
STRIP LeftWall_917 8 8 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 8 8 0.8 0.4 0 8.598 45
STRIP LeftWall_917 8 8 1.2 0.4 0 12.037 45
STRIP LeftWall_917 8 8 1.6 0.4 0 15.476 45
STRIP LeftWall_917 8 8 2 0.4 0 18.916 45
STRIP LeftWall_917 8 8 2.4 0.4 0 22.355 45
STRIP LeftWall_917 8 8 2.8 0.4 0 25.794 45
STRIP LeftWall_917 8 8 3.2 0.4 0 29.233 45
STRIP LeftWall_917 8 8 3.6 0.4 0 32.672 45
STRIP LeftWall_917 8 8 4 0.4 0 36.112 45
STRIP LeftWall_917 8 8 4.4 0.4 0 39.551 45
STRIP LeftWall_917 8 8 4.8 0.4 0 42.99 45
STRIP LeftWall_917 8 8 5.2 0.4 0 46.429 45
STRIP LeftWall_917 8 8 5.6 0.4 0 49.868 45
STRIP LeftWall_917 8 8 6 0.4 0 53.308 45
STRIP LeftWall_917 8 8 6.4 0.4 0 56.747 45
STRIP LeftWall_917 8 8 6.8 0.4 0 60.186 45
STRIP LeftWall_917 8 8 7.2 0.4 0 63.625 45
STRIP LeftWall_917 8 8 7.6 0.4 0 67.064 45
STRIP LeftWall_917 8 8 8 0.4 0 70.504 45
STRIP LeftWall_917 8 8 8.4 0.4 0 73.943 45
STRIP LeftWall_917 8 8 8.8 0.4 0 77.382 45
STRIP LeftWall_917 8 8 9.2 0.4 0 80.821 45
STRIP LeftWall_917 8 8 9.6 0.4 0 84.26 45
STRIP LeftWall_917 8 8 10 0.4 0 87.7 45
STRIP LeftWall_917 8 8 10.4 0.4 0 91.139 45
STRIP LeftWall_917 8 8 10.8 0.4 0 94.578 45
STRIP LeftWall_917 8 8 11.2 0.4 0 98.017 45
STRIP LeftWall_917 8 8 11.6 0.4 0 101.46 45
STRIP LeftWall_917 8 8 12 0.4 0 104.9 45
STRIP LeftWall_917 8 8 12.4 0.4 0 108.33 45
STRIP LeftWall_917 8 8 12.8 0.4 0 111.77 45
STRIP LeftWall_917 8 8 13.2 0.4 0 115.21 45
STRIP LeftWall_917 8 8 13.6 0.4 0 118.65 45
STRIP LeftWall_917 8 8 14 0.4 0 122.09 45
STRIP LeftWall_917 8 8 14.4 0.4 0 125.53 45
STRIP LeftWall_917 8 8 14.8 0.4 0 128.97 45
STRIP LeftWall_917 8 8 15.2 0.4 0 132.41 45
STRIP LeftWall_917 8 8 15.6 0.4 0 135.85 45
STRIP LeftWall_917 8 8 16 0.4 0 139.29 45
STRIP LeftWall_917 8 8 16.4 0.4 0 142.73 45
STRIP LeftWall_917 8 8 16.8 0.4 0 146.17 45
STRIP LeftWall_917 8 8 17.2 0.4 0 149.61 45
STRIP LeftWall_917 8 8 17.6 0.4 0 153.04 45
STRIP LeftWall_917 8 8 18 0.4 0 156.48 45
STRIP LeftWall_917 8 8 18.4 0.4 0 159.92 45
STRIP LeftWall_917 8 8 18.8 0.4 0 163.36 45
STRIP LeftWall_917 8 8 19.2 0.4 0 166.8 45
STRIP LeftWall_917 8 8 19.6 0.4 0 170.24 45
STRIP LeftWall_917 8 8 20 0.4 0 173.68 45
STRIP LeftWall_917 8 8 20.4 0.4 0 177.12 45
STRIP LeftWall_917 8 8 20.8 0.4 0 180.56 45
STRIP LeftWall_917 8 8 21.2 0.4 0 184 45
STRIP LeftWall_917 8 8 21.6 0.4 0 187.44 45
STRIP LeftWall_917 8 8 22 0.4 0 190.88 45
STRIP LeftWall_917 8 8 22.4 0.4 0 194.31 45
STRIP LeftWall_917 8 8 22.8 0.4 0 197.75 45
STRIP LeftWall_917 8 8 23.2 0.4 0 201.19 45
STRIP LeftWall_917 8 8 23.6 0.4 0 204.63 45
STRIP LeftWall_917 8 8 24 0.4 0 208.07 45
STRIP LeftWall_917 8 8 24.4 0.4 0 211.51 45
STRIP LeftWall_917 8 8 24.8 0.4 0 214.95 45
STRIP LeftWall_917 8 8 25.2 0.4 0 218.39 45
STRIP LeftWall_917 8 8 25.6 0.4 0 221.83 45
STRIP LeftWall_917 8 8 26 0.4 0 225.27 45
STRIP LeftWall_917 8 8 26.4 0.4 0 228.71 45
STRIP LeftWall_917 8 8 26.8 0.4 0 232.15 45
STRIP LeftWall_917 8 8 27.2 0.4 0 235.59 45
STRIP LeftWall_917 8 8 27.6 0.4 0 239.02 45
STRIP LeftWall_917 8 8 28 0.4 0 242.46 45
STRIP LeftWall_917 8 8 28.4 0.4 0 245.9 45
STRIP LeftWall_917 8 8 28.8 0.4 0 249.34 45
STRIP LeftWall_917 8 8 29.2 0.4 0 252.78 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	8	8	29.6	0.4	0	256.22	45
STRIP LeftWall_917	9	9	0	0.4	0	1.7196	45
STRIP LeftWall_917	9	9	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	9	9	0.8	0.4	0	8.598	45
STRIP LeftWall_917	9	9	1.2	0.4	0	12.037	45
STRIP LeftWall_917	9	9	1.6	0.4	0	15.476	45
STRIP LeftWall_917	9	9	2	0.4	0	18.916	45
STRIP LeftWall_917	9	9	2.4	0.4	0	22.355	45
STRIP LeftWall_917	9	9	2.8	0.4	0	25.794	45
STRIP LeftWall_917	9	9	3.2	0.4	0	29.233	45
STRIP LeftWall_917	9	9	3.6	0.4	0	32.672	45
STRIP LeftWall_917	9	9	4	0.4	0	36.112	45
STRIP LeftWall_917	9	9	4.4	0.4	0	39.551	45
STRIP LeftWall_917	9	9	4.8	0.4	0	42.99	45
STRIP LeftWall_917	9	9	5.2	0.4	0	46.429	45
STRIP LeftWall_917	9	9	5.6	0.4	0	49.868	45
STRIP LeftWall_917	9	9	6	0.4	0	53.308	45
STRIP LeftWall_917	9	9	6.4	0.4	0	56.747	45
STRIP LeftWall_917	9	9	6.8	0.4	0	60.186	45
STRIP LeftWall_917	9	9	7.2	0.4	0	63.625	45
STRIP LeftWall_917	9	9	7.6	0.4	0	67.064	45
STRIP LeftWall_917	9	9	8	0.4	0	70.504	45
STRIP LeftWall_917	9	9	8.4	0.4	0	73.943	45
STRIP LeftWall_917	9	9	8.8	0.4	0	77.382	45
STRIP LeftWall_917	9	9	9.2	0.4	0	80.821	45
STRIP LeftWall_917	9	9	9.6	0.4	0	84.26	45
STRIP LeftWall_917	9	9	10	0.4	0	87.7	45
STRIP LeftWall_917	9	9	10.4	0.4	0	91.139	45
STRIP LeftWall_917	9	9	10.8	0.4	0	94.578	45
STRIP LeftWall_917	9	9	11.2	0.4	0	98.017	45
STRIP LeftWall_917	9	9	11.6	0.4	0	101.46	45
STRIP LeftWall_917	9	9	12	0.4	0	104.9	45
STRIP LeftWall_917	9	9	12.4	0.4	0	108.33	45
STRIP LeftWall_917	9	9	12.8	0.4	0	111.77	45
STRIP LeftWall_917	9	9	13.2	0.4	0	115.21	45
STRIP LeftWall_917	9	9	13.6	0.4	0	118.65	45
STRIP LeftWall_917	9	9	14	0.4	0	122.09	45
STRIP LeftWall_917	9	9	14.4	0.4	0	125.53	45
STRIP LeftWall_917	9	9	14.8	0.4	0	128.97	45
STRIP LeftWall_917	9	9	15.2	0.4	0	132.41	45
STRIP LeftWall_917	9	9	15.6	0.4	0	135.85	45
STRIP LeftWall_917	9	9	16	0.4	0	139.29	45
STRIP LeftWall_917	9	9	16.4	0.4	0	142.73	45
STRIP LeftWall_917	9	9	16.8	0.4	0	146.17	45
STRIP LeftWall_917	9	9	17.2	0.4	0	149.61	45
STRIP LeftWall_917	9	9	17.6	0.4	0	153.04	45
STRIP LeftWall_917	9	9	18	0.4	0	156.48	45
STRIP LeftWall_917	9	9	18.4	0.4	0	159.92	45
STRIP LeftWall_917	9	9	18.8	0.4	0	163.36	45
STRIP LeftWall_917	9	9	19.2	0.4	0	166.8	45
STRIP LeftWall_917	9	9	19.6	0.4	0	170.24	45
STRIP LeftWall_917	9	9	20	0.4	0	173.68	45
STRIP LeftWall_917	9	9	20.4	0.4	0	177.12	45
STRIP LeftWall_917	9	9	20.8	0.4	0	180.56	45
STRIP LeftWall_917	9	9	21.2	0.4	0	184	45
STRIP LeftWall_917	9	9	21.6	0.4	0	187.44	45
STRIP LeftWall_917	9	9	22	0.4	0	190.88	45
STRIP LeftWall_917	9	9	22.4	0.4	0	194.31	45
STRIP LeftWall_917	9	9	22.8	0.4	0	197.75	45
STRIP LeftWall_917	9	9	23.2	0.4	0	201.19	45
STRIP LeftWall_917	9	9	23.6	0.4	0	204.63	45
STRIP LeftWall_917	9	9	24	0.4	0	208.07	45
STRIP LeftWall_917	9	9	24.4	0.4	0	211.51	45
STRIP LeftWall_917	9	9	24.8	0.4	0	214.95	45
STRIP LeftWall_917	9	9	25.2	0.4	0	218.39	45
STRIP LeftWall_917	9	9	25.6	0.4	0	221.83	45
STRIP LeftWall_917	9	9	26	0.4	0	225.27	45
STRIP LeftWall_917	9	9	26.4	0.4	0	228.71	45
STRIP LeftWall_917	9	9	26.8	0.4	0	232.15	45
STRIP LeftWall_917	9	9	27.2	0.4	0	235.59	45
STRIP LeftWall_917	9	9	27.6	0.4	0	239.02	45
STRIP LeftWall_917	9	9	28	0.4	0	242.46	45
STRIP LeftWall_917	9	9	28.4	0.4	0	245.9	45
STRIP LeftWall_917	9	9	28.8	0.4	0	249.34	45
STRIP LeftWall_917	9	9	29.2	0.4	0	252.78	45
STRIP LeftWall_917	9	9	29.6	0.4	0	256.22	45
STRIP LeftWall_917	10	10	0	0.4	0	1.7196	45
STRIP LeftWall_917	10	10	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	10	10	0.8	0.4	0	8.598	45
STRIP LeftWall_917	10	10	1.2	0.4	0	12.037	45
STRIP LeftWall_917	10	10	1.6	0.4	0	15.476	45
STRIP LeftWall_917	10	10	2	0.4	0	18.916	45
STRIP LeftWall_917	10	10	2.4	0.4	0	22.355	45
STRIP LeftWall_917	10	10	2.8	0.4	0	25.794	45
STRIP LeftWall_917	10	10	3.2	0.4	0	29.233	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 10 10 3.6 0.4 0 32.672 45
STRIP LeftWall_917 10 10 4 0.4 0 36.112 45
STRIP LeftWall_917 10 10 4.4 0.4 0 39.551 45
STRIP LeftWall_917 10 10 4.8 0.4 0 42.99 45
STRIP LeftWall_917 10 10 5.2 0.4 0 46.429 45
STRIP LeftWall_917 10 10 5.6 0.4 0 49.868 45
STRIP LeftWall_917 10 10 6 0.4 0 53.308 45
STRIP LeftWall_917 10 10 6.4 0.4 0 56.747 45
STRIP LeftWall_917 10 10 6.8 0.4 0 60.186 45
STRIP LeftWall_917 10 10 7.2 0.4 0 63.625 45
STRIP LeftWall_917 10 10 7.6 0.4 0 67.064 45
STRIP LeftWall_917 10 10 8 0.4 0 70.504 45
STRIP LeftWall_917 10 10 8.4 0.4 0 73.943 45
STRIP LeftWall_917 10 10 8.8 0.4 0 77.382 45
STRIP LeftWall_917 10 10 9.2 0.4 0 80.821 45
STRIP LeftWall_917 10 10 9.6 0.4 0 84.26 45
STRIP LeftWall_917 10 10 10 0.4 0 87.7 45
STRIP LeftWall_917 10 10 10.4 0.4 0 91.139 45
STRIP LeftWall_917 10 10 10.8 0.4 0 94.578 45
STRIP LeftWall_917 10 10 11.2 0.4 0 98.017 45
STRIP LeftWall_917 10 10 11.6 0.4 0 101.46 45
STRIP LeftWall_917 10 10 12 0.4 0 104.9 45
STRIP LeftWall_917 10 10 12.4 0.4 0 108.33 45
STRIP LeftWall_917 10 10 12.8 0.4 0 111.77 45
STRIP LeftWall_917 10 10 13.2 0.4 0 115.21 45
STRIP LeftWall_917 10 10 13.6 0.4 0 118.65 45
STRIP LeftWall_917 10 10 14 0.4 0 122.09 45
STRIP LeftWall_917 10 10 14.4 0.4 0 125.53 45
STRIP LeftWall_917 10 10 14.8 0.4 0 128.97 45
STRIP LeftWall_917 10 10 15.2 0.4 0 132.41 45
STRIP LeftWall_917 10 10 15.6 0.4 0 135.85 45
STRIP LeftWall_917 10 10 16 0.4 0 139.29 45
STRIP LeftWall_917 10 10 16.4 0.4 0 142.73 45
STRIP LeftWall_917 10 10 16.8 0.4 0 146.17 45
STRIP LeftWall_917 10 10 17.2 0.4 0 149.61 45
STRIP LeftWall_917 10 10 17.6 0.4 0 153.04 45
STRIP LeftWall_917 10 10 18 0.4 0 156.48 45
STRIP LeftWall_917 10 10 18.4 0.4 0 159.92 45
STRIP LeftWall_917 10 10 18.8 0.4 0 163.36 45
STRIP LeftWall_917 10 10 19.2 0.4 0 166.8 45
STRIP LeftWall_917 10 10 19.6 0.4 0 170.24 45
STRIP LeftWall_917 10 10 20 0.4 0 173.68 45
STRIP LeftWall_917 10 10 20.4 0.4 0 177.12 45
STRIP LeftWall_917 10 10 20.8 0.4 0 180.56 45
STRIP LeftWall_917 10 10 21.2 0.4 0 184 45
STRIP LeftWall_917 10 10 21.6 0.4 0 187.44 45
STRIP LeftWall_917 10 10 22 0.4 0 190.88 45
STRIP LeftWall_917 10 10 22.4 0.4 0 194.31 45
STRIP LeftWall_917 10 10 22.8 0.4 0 197.75 45
STRIP LeftWall_917 10 10 23.2 0.4 0 201.19 45
STRIP LeftWall_917 10 10 23.6 0.4 0 204.63 45
STRIP LeftWall_917 10 10 24 0.4 0 208.07 45
STRIP LeftWall_917 10 10 24.4 0.4 0 211.51 45
STRIP LeftWall_917 10 10 24.8 0.4 0 214.95 45
STRIP LeftWall_917 10 10 25.2 0.4 0 218.39 45
STRIP LeftWall_917 10 10 25.6 0.4 0 221.83 45
STRIP LeftWall_917 10 10 26 0.4 0 225.27 45
STRIP LeftWall_917 10 10 26.4 0.4 0 228.71 45
STRIP LeftWall_917 10 10 26.8 0.4 0 232.15 45
STRIP LeftWall_917 10 10 27.2 0.4 0 235.59 45
STRIP LeftWall_917 10 10 27.6 0.4 0 239.02 45
STRIP LeftWall_917 10 10 28 0.4 0 242.46 45
STRIP LeftWall_917 10 10 28.4 0.4 0 245.9 45
STRIP LeftWall_917 10 10 28.8 0.4 0 249.34 45
STRIP LeftWall_917 10 10 29.2 0.4 0 252.78 45
STRIP LeftWall_917 10 10 29.6 0.4 0 256.22 45
STRIP LeftWall_917 11 11 0 0.4 0 1.7196 45
STRIP LeftWall_917 11 11 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 11 11 0.8 0.4 0 8.598 45
STRIP LeftWall_917 11 11 1.2 0.4 0 12.037 45
STRIP LeftWall_917 11 11 1.6 0.4 0 15.476 45
STRIP LeftWall_917 11 11 2 0.4 0 18.916 45
STRIP LeftWall_917 11 11 2.4 0.4 0 22.355 45
STRIP LeftWall_917 11 11 2.8 0.4 0 25.794 45
STRIP LeftWall_917 11 11 3.2 0.4 0 29.233 45
STRIP LeftWall_917 11 11 3.6 0.4 0 32.672 45
STRIP LeftWall_917 11 11 4 0.4 0 36.112 45
STRIP LeftWall_917 11 11 4.4 0.4 0 39.551 45
STRIP LeftWall_917 11 11 4.8 0.4 0 42.99 45
STRIP LeftWall_917 11 11 5.2 0.4 0 46.429 45
STRIP LeftWall_917 11 11 5.6 0.4 0 49.868 45
STRIP LeftWall_917 11 11 6 0.4 0 53.308 45
STRIP LeftWall_917 11 11 6.4 0.4 0 56.747 45
STRIP LeftWall_917 11 11 6.8 0.4 0 60.186 45
STRIP LeftWall_917 11 11 7.2 0.4 0 63.625 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 11 11 7.6 0.4 0 67.064 45
STRIP LeftWall_917 11 11 8 0.4 0 70.504 45
STRIP LeftWall_917 11 11 8.4 0.4 0 73.943 45
STRIP LeftWall_917 11 11 8.8 0.4 0 77.382 45
STRIP LeftWall_917 11 11 9.2 0.4 0 80.821 45
STRIP LeftWall_917 11 11 9.6 0.4 0 84.26 45
STRIP LeftWall_917 11 11 10 0.4 0 87.7 45
STRIP LeftWall_917 11 11 10.4 0.4 0 91.139 45
STRIP LeftWall_917 11 11 10.8 0.4 0 94.578 45
STRIP LeftWall_917 11 11 11.2 0.4 0 98.017 45
STRIP LeftWall_917 11 11 11.6 0.4 0 101.46 45
STRIP LeftWall_917 11 11 12 0.4 0 104.9 45
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STRIP LeftWall_917 11 11 12.8 0.4 0 111.77 45
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STRIP LeftWall_917 11 11 14.8 0.4 0 128.97 45
STRIP LeftWall_917 11 11 15.2 0.4 0 132.41 45
STRIP LeftWall_917 11 11 15.6 0.4 0 135.85 45
STRIP LeftWall_917 11 11 16 0.4 0 139.29 45
STRIP LeftWall_917 11 11 16.4 0.4 0 142.73 45
STRIP LeftWall_917 11 11 16.8 0.4 0 146.17 45
STRIP LeftWall_917 11 11 17.2 0.4 0 149.61 45
STRIP LeftWall_917 11 11 17.6 0.4 0 153.04 45
STRIP LeftWall_917 11 11 18 0.4 0 156.48 45
STRIP LeftWall_917 11 11 18.4 0.4 0 159.92 45
STRIP LeftWall_917 11 11 18.8 0.4 0 163.36 45
STRIP LeftWall_917 11 11 19.2 0.4 0 166.8 45
STRIP LeftWall_917 11 11 19.6 0.4 0 170.24 45
STRIP LeftWall_917 11 11 20 0.4 0 173.68 45
STRIP LeftWall_917 11 11 20.4 0.4 0 177.12 45
STRIP LeftWall_917 11 11 20.8 0.4 0 180.56 45
STRIP LeftWall_917 11 11 21.2 0.4 0 184 45
STRIP LeftWall_917 11 11 21.6 0.4 0 187.44 45
STRIP LeftWall_917 11 11 22 0.4 0 190.88 45
STRIP LeftWall_917 11 11 22.4 0.4 0 194.31 45
STRIP LeftWall_917 11 11 22.8 0.4 0 197.75 45
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STRIP LeftWall_917 11 11 24.4 0.4 0 211.51 45
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STRIP LeftWall_917 11 11 25.2 0.4 0 218.39 45
STRIP LeftWall_917 11 11 25.6 0.4 0 221.83 45
STRIP LeftWall_917 11 11 26 0.4 0 225.27 45
STRIP LeftWall_917 11 11 26.4 0.4 0 228.71 45
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STRIP LeftWall_917 11 11 27.6 0.4 0 239.02 45
STRIP LeftWall_917 11 11 28 0.4 0 242.46 45
STRIP LeftWall_917 11 11 28.4 0.4 0 245.9 45
STRIP LeftWall_917 11 11 28.8 0.4 0 249.34 45
STRIP LeftWall_917 11 11 29.2 0.4 0 252.78 45
STRIP LeftWall_917 11 11 29.6 0.4 0 256.22 45
STRIP LeftWall_917 12 12 0 0.4 0 1.7196 45
STRIP LeftWall_917 12 12 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 12 12 0.8 0.4 0 8.598 45
STRIP LeftWall_917 12 12 1.2 0.4 0 12.037 45
STRIP LeftWall_917 12 12 1.6 0.4 0 15.476 45
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STRIP LeftWall_917 12 12 2.4 0.4 0 22.355 45
STRIP LeftWall_917 12 12 2.8 0.4 0 25.794 45
STRIP LeftWall_917 12 12 3.2 0.4 0 29.233 45
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STRIP LeftWall_917 12 12 4.4 0.4 0 39.551 45
STRIP LeftWall_917 12 12 4.8 0.4 0 42.99 45
STRIP LeftWall_917 12 12 5.2 0.4 0 46.429 45
STRIP LeftWall_917 12 12 5.6 0.4 0 49.868 45
STRIP LeftWall_917 12 12 6 0.4 0 53.308 45
STRIP LeftWall_917 12 12 6.4 0.4 0 56.747 45
STRIP LeftWall_917 12 12 6.8 0.4 0 60.186 45
STRIP LeftWall_917 12 12 7.2 0.4 0 63.625 45
STRIP LeftWall_917 12 12 7.6 0.4 0 67.064 45
STRIP LeftWall_917 12 12 8 0.4 0 70.504 45
STRIP LeftWall_917 12 12 8.4 0.4 0 73.943 45
STRIP LeftWall_917 12 12 8.8 0.4 0 77.382 45
STRIP LeftWall_917 12 12 9.2 0.4 0 80.821 45
STRIP LeftWall_917 12 12 9.6 0.4 0 84.26 45
STRIP LeftWall_917 12 12 10 0.4 0 87.7 45
STRIP LeftWall_917 12 12 10.4 0.4 0 91.139 45
STRIP LeftWall_917 12 12 10.8 0.4 0 94.578 45
STRIP LeftWall_917 12 12 11.2 0.4 0 98.017 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 12 12 11.6 0.4 0 101.46 45
STRIP LeftWall_917 12 12 12 0.4 0 104.9 45
STRIP LeftWall_917 12 12 12.4 0.4 0 108.33 45
STRIP LeftWall_917 12 12 12.8 0.4 0 111.77 45
STRIP LeftWall_917 12 12 13.2 0.4 0 115.21 45
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STRIP LeftWall_917 12 12 18 0.4 0 156.48 45
STRIP LeftWall_917 12 12 18.4 0.4 0 159.92 45
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STRIP LeftWall_917 12 12 19.2 0.4 0 166.8 45
STRIP LeftWall_917 12 12 19.6 0.4 0 170.24 45
STRIP LeftWall_917 12 12 20 0.4 0 173.68 45
STRIP LeftWall_917 12 12 20.4 0.4 0 177.12 45
STRIP LeftWall_917 12 12 20.8 0.4 0 180.56 45
STRIP LeftWall_917 12 12 21.2 0.4 0 184 45
STRIP LeftWall_917 12 12 21.6 0.4 0 187.44 45
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STRIP LeftWall_917 12 12 26.4 0.4 0 228.71 45
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STRIP LeftWall_917 12 12 29.6 0.4 0 256.22 45
STRIP LeftWall_917 13 13 0 0.4 0 1.7196 45
STRIP LeftWall_917 13 13 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 13 13 0.8 0.4 0 8.598 45
STRIP LeftWall_917 13 13 1.2 0.4 0 12.037 45
STRIP LeftWall_917 13 13 1.6 0.4 0 15.476 45
STRIP LeftWall_917 13 13 2 0.4 0 18.916 45
STRIP LeftWall_917 13 13 2.4 0.4 0 22.355 45
STRIP LeftWall_917 13 13 2.8 0.4 0 25.794 45
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STRIP LeftWall_917 13 13 3.6 0.4 0 32.672 45
STRIP LeftWall_917 13 13 4 0.4 0 36.112 45
STRIP LeftWall_917 13 13 4.4 0.4 0 39.551 45
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STRIP LeftWall_917 13 13 6.4 0.4 0 56.747 45
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STRIP LeftWall_917 13 13 7.2 0.4 0 63.625 45
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STRIP LeftWall_917 13 13 8 0.4 0 70.504 45
STRIP LeftWall_917 13 13 8.4 0.4 0 73.943 45
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STRIP LeftWall_917 13 13 9.2 0.4 0 80.821 45
STRIP LeftWall_917 13 13 9.6 0.4 0 84.26 45
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STRIP LeftWall_917 13 13 10.4 0.4 0 91.139 45
STRIP LeftWall_917 13 13 10.8 0.4 0 94.578 45
STRIP LeftWall_917 13 13 11.2 0.4 0 98.017 45
STRIP LeftWall_917 13 13 11.6 0.4 0 101.46 45
STRIP LeftWall_917 13 13 12 0.4 0 104.9 45
STRIP LeftWall_917 13 13 12.4 0.4 0 108.33 45
STRIP LeftWall_917 13 13 12.8 0.4 0 111.77 45
STRIP LeftWall_917 13 13 13.2 0.4 0 115.21 45
STRIP LeftWall_917 13 13 13.6 0.4 0 118.65 45
STRIP LeftWall_917 13 13 14 0.4 0 122.09 45
STRIP LeftWall_917 13 13 14.4 0.4 0 125.53 45
STRIP LeftWall_917 13 13 14.8 0.4 0 128.97 45
STRIP LeftWall_917 13 13 15.2 0.4 0 132.41 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 13 13 15.6 0.4 0 135.85 45
STRIP LeftWall_917 13 13 16 0.4 0 139.29 45
STRIP LeftWall_917 13 13 16.4 0.4 0 142.73 45
STRIP LeftWall_917 13 13 16.8 0.4 0 146.17 45
STRIP LeftWall_917 13 13 17.2 0.4 0 149.61 45
STRIP LeftWall_917 13 13 17.6 0.4 0 153.04 45
STRIP LeftWall_917 13 13 18 0.4 0 156.48 45
STRIP LeftWall_917 13 13 18.4 0.4 0 159.92 45
STRIP LeftWall_917 13 13 18.8 0.4 0 163.36 45
STRIP LeftWall_917 13 13 19.2 0.4 0 166.8 45
STRIP LeftWall_917 13 13 19.6 0.4 0 170.24 45
STRIP LeftWall_917 13 13 20 0.4 0 173.68 45
STRIP LeftWall_917 13 13 20.4 0.4 0 177.12 45
STRIP LeftWall_917 13 13 20.8 0.4 0 180.56 45
STRIP LeftWall_917 13 13 21.2 0.4 0 184 45
STRIP LeftWall_917 13 13 21.6 0.4 0 187.44 45
STRIP LeftWall_917 13 13 22 0.4 0 190.88 45
STRIP LeftWall_917 13 13 22.4 0.4 0 194.31 45
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STRIP LeftWall_917 13 13 24 0.4 0 208.07 45
STRIP LeftWall_917 13 13 24.4 0.4 0 211.51 45
STRIP LeftWall_917 13 13 24.8 0.4 0 214.95 45
STRIP LeftWall_917 13 13 25.2 0.4 0 218.39 45
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STRIP LeftWall_917 13 13 26 0.4 0 225.27 45
STRIP LeftWall_917 13 13 26.4 0.4 0 228.71 45
STRIP LeftWall_917 13 13 26.8 0.4 0 232.15 45
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STRIP LeftWall_917 13 13 29.6 0.4 0 256.22 45
STRIP LeftWall_917 14 14 0 0.4 0 1.7196 45
STRIP LeftWall_917 14 14 0.4 0.4 0 5.1588 45
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STRIP LeftWall_917 14 14 1.6 0.4 0 15.476 45
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STRIP LeftWall_917 14 14 4.8 0.4 0 42.99 45
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STRIP LeftWall_917 14 14 5.6 0.4 0 49.868 45
STRIP LeftWall_917 14 14 6 0.4 0 53.308 45
STRIP LeftWall_917 14 14 6.4 0.4 0 56.747 45
STRIP LeftWall_917 14 14 6.8 0.4 0 60.186 45
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STRIP LeftWall_917 14 14 8 0.4 0 70.504 45
STRIP LeftWall_917 14 14 8.4 0.4 0 73.943 45
STRIP LeftWall_917 14 14 8.8 0.4 0 77.382 45
STRIP LeftWall_917 14 14 9.2 0.4 0 80.821 45
STRIP LeftWall_917 14 14 9.6 0.4 0 84.26 45
STRIP LeftWall_917 14 14 10 0.4 0 87.7 45
STRIP LeftWall_917 14 14 10.4 0.4 0 91.139 45
STRIP LeftWall_917 14 14 10.8 0.4 0 94.578 45
STRIP LeftWall_917 14 14 11.2 0.4 0 98.017 45
STRIP LeftWall_917 14 14 11.6 0.4 0 101.46 45
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STRIP LeftWall_917 14 14 12.8 0.4 0 111.77 45
STRIP LeftWall_917 14 14 13.2 0.4 0 115.21 45
STRIP LeftWall_917 14 14 13.6 0.4 0 118.65 45
STRIP LeftWall_917 14 14 14 0.4 0 122.09 45
STRIP LeftWall_917 14 14 14.4 0.4 0 125.53 45
STRIP LeftWall_917 14 14 14.8 0.4 0 128.97 45
STRIP LeftWall_917 14 14 15.2 0.4 0 132.41 45
STRIP LeftWall_917 14 14 15.6 0.4 0 135.85 45
STRIP LeftWall_917 14 14 16 0.4 0 139.29 45
STRIP LeftWall_917 14 14 16.4 0.4 0 142.73 45
STRIP LeftWall_917 14 14 16.8 0.4 0 146.17 45
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STRIP LeftWall_917 14 14 18 0.4 0 156.48 45
STRIP LeftWall_917 14 14 18.4 0.4 0 159.92 45
STRIP LeftWall_917 14 14 18.8 0.4 0 163.36 45
STRIP LeftWall_917 14 14 19.2 0.4 0 166.8 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 14 14 19.6 0.4 0 170.24 45
STRIP LeftWall_917 14 14 20 0.4 0 173.68 45
STRIP LeftWall_917 14 14 20.4 0.4 0 177.12 45
STRIP LeftWall_917 14 14 20.8 0.4 0 180.56 45
STRIP LeftWall_917 14 14 21.2 0.4 0 184 45
STRIP LeftWall_917 14 14 21.6 0.4 0 187.44 45
STRIP LeftWall_917 14 14 22 0.4 0 190.88 45
STRIP LeftWall_917 14 14 22.4 0.4 0 194.31 45
STRIP LeftWall_917 14 14 22.8 0.4 0 197.75 45
STRIP LeftWall_917 14 14 23.2 0.4 0 201.19 45
STRIP LeftWall_917 14 14 23.6 0.4 0 204.63 45
STRIP LeftWall_917 14 14 24 0.4 0 208.07 45
STRIP LeftWall_917 14 14 24.4 0.4 0 211.51 45
STRIP LeftWall_917 14 14 24.8 0.4 0 214.95 45
STRIP LeftWall_917 14 14 25.2 0.4 0 218.39 45
STRIP LeftWall_917 14 14 25.6 0.4 0 221.83 45
STRIP LeftWall_917 14 14 26 0.4 0 225.27 45
STRIP LeftWall_917 14 14 26.4 0.4 0 228.71 45
STRIP LeftWall_917 14 14 26.8 0.4 0 232.15 45
STRIP LeftWall_917 14 14 27.2 0.4 0 235.59 45
STRIP LeftWall_917 14 14 27.6 0.4 0 239.02 45
STRIP LeftWall_917 14 14 28 0.4 0 242.46 45
STRIP LeftWall_917 14 14 28.4 0.4 0 245.9 45
STRIP LeftWall_917 14 14 28.8 0.4 0 249.34 45
STRIP LeftWall_917 14 14 29.2 0.4 0 252.78 45
STRIP LeftWall_917 14 14 29.6 0.4 0 256.22 45

* 7: Defining Steps

STEP Stepn.0Condizioniniziali_924
CHANGE Coltredeiritica_2_905_L_0 U-FRICT=30 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-FRICT=30 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KA=0.333 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KP=4.288 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KA=0.333 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KP=4.288 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KP=5.879 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KP=5.879 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-COHE=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-ADHES=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-COHE=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-ADHES=0 LeftWall_917
SETWALL LeftWall_917
GEOM 0 0
SURCHARGE 0 0 0 0
WATER -30 0 -18 0 0
ADD LeftWallElement_1092
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.1Fasediscavol-Fase1_935
SETWALL LeftWall_917
GEOM 0 -3.8
SURCHARGE 0 0 0 -3.5
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.2Fasediscavol-Fase2_953
SETWALL LeftWall_917
GEOM 0 -3.8
SURCHARGE 0 0 0 -3.5
WATER -30 0 -18 0 0
ADD Tirantiesistenti+591.00_965
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.3Fasediscavo2-Fase1_973
SETWALL LeftWall_917
GEOM 0 -7.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.4Fasediscavo2-Fase2_991
SETWALL LeftWall_917
GEOM 0 -7.8

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



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Progetto Esecutivo**

```
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
ADD Tirantiesistenti+587.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.5Fasediscavo3-Fase1_7442
SETWALL LeftWall_917
GEOM 0 -10.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.6Fasediscavo3-Fase2_8893
SETWALL LeftWall_917
GEOM 0 -10.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
ADD Tirantiesistenti+584.00_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.7Fasefinalisediscavoes_1011
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.8Primotirantenuovo_1029
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
ADD TirantinuoviT1_3735
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.9Secondotirantenuovo_1049
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
ADD TirantinuoviT2_10346
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.10Terzotirantenuovo_10348
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
ADD TirantinuoviT3_10599
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage11Rilasciotirantiesis_3737
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
REMOVE Tirantiesistenti+591.00_965 Tirantiesistenti+587.00_1003
REMOVE Tirantiesistenti+584.00_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage12Scavodiprogetto_98268
SETWALL LeftWall_917
GEOM 0 -14.5
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage13Sisma_100691
SETWALL LeftWall_917
GEOM 0 -14.5
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
CHANGE Coltredestritica_2_905_L_0 U-KAED=0.59647 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KAEW=1.0372 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KPED=3.9463 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KPEW=2.4763 LeftWall_917
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



```
CHANGE Coltredeiritica_2_905_L_0 D-KAED=0.52506 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KAEW=1.2417 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KPED=2.627 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KPEW=0.85515 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KAED=0.5003 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KAEW=0.7327 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KPED=5.5548 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KPEW=4.3355 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KAED=0.4404 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KAEW=0.7799 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KPED=3.7695 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KPEW=2.3816 LeftWall_917
EQK USER 0.2897 0.14485 -0.14485 25.532 0.5 0 0.5 0 0
* Defining seismic surcharge pressures on wall LeftWall_917
*   min elevation = -14.5
*   max elevation = 0
*   average gamma = 20.3793103448276
*   kh = 0.2897
*   deltaQ = 465.484528125
DLOAD step LeftWall_917 -14.5 32.102 0 32.102
* Include pressure contribution from wall: LeftWall_917
* Include wall contribution
DLOAD step LeftWall_917 -14.5 0.41256 0 0.41256
VARIABLE LeftWallElement_1092 0.5
** SUBINCREMENT LOGIC - active since June 2019
   SUBINCREMENTS 2
ENDSTEP
```

11.2 Design Assumption : NTC2018: SLE (Rara/Frequente/Quasi Permanente) - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: NTC2018: SLE (Rara/Frequente/Quasi Permanente)
* Time:mercoledì 14 dicembre 2022 10:36:02
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_917 0 -18 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_917 -18 0 1 0
SOIL 0_R LeftWall_917 -18 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Coltredeiritica_2_905_L_0)
*
LDATA Coltredeiritica_2_905_L_0 30 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 18 10 10
PERMEABILITY 1E-05
RESISTANCE 0 30 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 30000 48000
ENDL
*
* Soil Profile (Marnaarenacea_8_906_L_0)
*
LDATA Marnaarenacea_8_906_L_0 -3 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 21 13 10
PERMEABILITY 0.0001
RESISTANCE 100 35 0 0 0
TZDATA LINEAR 20000 0 30 0.5 0
KSCALE 0 0
YOUNG 1E+06 1.6E+06
ENDL

* 5: Defining structural materials
* Rebar material: 54 Name=Strands 270 ksi E=200100000 kPa
MATERIAL Strands270ksi_54 2.001E+08
* Concrete material: 1093 Name=C20/25 E=29962000 kPa
MATERIAL C2025_1093 2.9962E+07
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

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* Steel material: 43 Name=Fe510 E=206000200 kPa
MATERIAL Fe510_43 2.06E+08

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later

BEAM LeftWallElement_1092 LeftWall_917 -18 0 Fe510_43 0.080792 0.018495 4.3946E-05 1.4241 00 00 0

* 6.2: Supports

WIRE Tirantiesistenti+591.00_965 LeftWall_917 -3.3 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+587.00_1003 LeftWall_917 -7.3 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+584.00_3643 LeftWall_917 -10.3 Strands270ksi_54 1.9501E-05 62.5 15 0 0
WIRE TirantinuoviT1_3735 LeftWall_917 -1.8 Strands270ksi_54 1.611E-05 62.5 15 0 0
WIRE TirantinuoviT2_10346 LeftWall_917 -5.3 Strands270ksi_54 1.611E-05 62.5 15 0 0
WIRE TirantinuoviT3_10599 LeftWall_917 -12.3 Strands270ksi_54 1.9501E-05 62.5 15 0 0

* 6.3: Strips

* (slope contribution)

STRIP LeftWall_917 1 1 0 0.4 0 1.7196 45
STRIP LeftWall_917 1 1 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 1 1 0.8 0.4 0 8.598 45
STRIP LeftWall_917 1 1 1.2 0.4 0 12.037 45
STRIP LeftWall_917 1 1 1.6 0.4 0 15.476 45
STRIP LeftWall_917 1 1 2 0.4 0 18.916 45
STRIP LeftWall_917 1 1 2.4 0.4 0 22.355 45
STRIP LeftWall_917 1 1 2.8 0.4 0 25.794 45
STRIP LeftWall_917 1 1 3.2 0.4 0 29.233 45
STRIP LeftWall_917 1 1 3.6 0.4 0 32.672 45
STRIP LeftWall_917 1 1 4 0.4 0 36.112 45
STRIP LeftWall_917 1 1 4.4 0.4 0 39.551 45
STRIP LeftWall_917 1 1 4.8 0.4 0 42.99 45
STRIP LeftWall_917 1 1 5.2 0.4 0 46.429 45
STRIP LeftWall_917 1 1 5.6 0.4 0 49.868 45
STRIP LeftWall_917 1 1 6 0.4 0 53.308 45
STRIP LeftWall_917 1 1 6.4 0.4 0 56.747 45
STRIP LeftWall_917 1 1 6.8 0.4 0 60.186 45
STRIP LeftWall_917 1 1 7.2 0.4 0 63.625 45
STRIP LeftWall_917 1 1 7.6 0.4 0 67.064 45
STRIP LeftWall_917 1 1 8 0.4 0 70.504 45
STRIP LeftWall_917 1 1 8.4 0.4 0 73.943 45
STRIP LeftWall_917 1 1 8.8 0.4 0 77.382 45
STRIP LeftWall_917 1 1 9.2 0.4 0 80.821 45
STRIP LeftWall_917 1 1 9.6 0.4 0 84.26 45
STRIP LeftWall_917 1 1 10 0.4 0 87.7 45
STRIP LeftWall_917 1 1 10.4 0.4 0 91.139 45
STRIP LeftWall_917 1 1 10.8 0.4 0 94.578 45
STRIP LeftWall_917 1 1 11.2 0.4 0 98.017 45
STRIP LeftWall_917 1 1 11.6 0.4 0 101.46 45
STRIP LeftWall_917 1 1 12 0.4 0 104.9 45
STRIP LeftWall_917 1 1 12.4 0.4 0 108.33 45
STRIP LeftWall_917 1 1 12.8 0.4 0 111.77 45
STRIP LeftWall_917 1 1 13.2 0.4 0 115.21 45
STRIP LeftWall_917 1 1 13.6 0.4 0 118.65 45
STRIP LeftWall_917 1 1 14 0.4 0 122.09 45
STRIP LeftWall_917 1 1 14.4 0.4 0 125.53 45
STRIP LeftWall_917 1 1 14.8 0.4 0 128.97 45
STRIP LeftWall_917 1 1 15.2 0.4 0 132.41 45
STRIP LeftWall_917 1 1 15.6 0.4 0 135.85 45
STRIP LeftWall_917 1 1 16 0.4 0 139.29 45
STRIP LeftWall_917 1 1 16.4 0.4 0 142.73 45
STRIP LeftWall_917 1 1 16.8 0.4 0 146.17 45
STRIP LeftWall_917 1 1 17.2 0.4 0 149.61 45
STRIP LeftWall_917 1 1 17.6 0.4 0 153.04 45
STRIP LeftWall_917 1 1 18 0.4 0 156.48 45
STRIP LeftWall_917 1 1 18.4 0.4 0 159.92 45
STRIP LeftWall_917 1 1 18.8 0.4 0 163.36 45
STRIP LeftWall_917 1 1 19.2 0.4 0 166.8 45
STRIP LeftWall_917 1 1 19.6 0.4 0 170.24 45
STRIP LeftWall_917 1 1 20 0.4 0 173.68 45
STRIP LeftWall_917 1 1 20.4 0.4 0 177.12 45
STRIP LeftWall_917 1 1 20.8 0.4 0 180.56 45
STRIP LeftWall_917 1 1 21.2 0.4 0 184 45
STRIP LeftWall_917 1 1 21.6 0.4 0 187.44 45
STRIP LeftWall_917 1 1 22 0.4 0 190.88 45
STRIP LeftWall_917 1 1 22.4 0.4 0 194.31 45
STRIP LeftWall_917 1 1 22.8 0.4 0 197.75 45
STRIP LeftWall_917 1 1 23.2 0.4 0 201.19 45
STRIP LeftWall_917 1 1 23.6 0.4 0 204.63 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



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Progetto Esecutivo

STRIP LeftWall_917 1 1 24 0.4 0 208.07 45
STRIP LeftWall_917 1 1 24.4 0.4 0 211.51 45
STRIP LeftWall_917 1 1 24.8 0.4 0 214.95 45
STRIP LeftWall_917 1 1 25.2 0.4 0 218.39 45
STRIP LeftWall_917 1 1 25.6 0.4 0 221.83 45
STRIP LeftWall_917 1 1 26 0.4 0 225.27 45
STRIP LeftWall_917 1 1 26.4 0.4 0 228.71 45
STRIP LeftWall_917 1 1 26.8 0.4 0 232.15 45
STRIP LeftWall_917 1 1 27.2 0.4 0 235.59 45
STRIP LeftWall_917 1 1 27.6 0.4 0 239.02 45
STRIP LeftWall_917 1 1 28 0.4 0 242.46 45
STRIP LeftWall_917 1 1 28.4 0.4 0 245.9 45
STRIP LeftWall_917 1 1 28.8 0.4 0 249.34 45
STRIP LeftWall_917 1 1 29.2 0.4 0 252.78 45
STRIP LeftWall_917 1 1 29.6 0.4 0 256.22 45
STRIP LeftWall_917 2 2 0 0.4 0 1.7196 45
STRIP LeftWall_917 2 2 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 2 2 0.8 0.4 0 8.598 45
STRIP LeftWall_917 2 2 1.2 0.4 0 12.037 45
STRIP LeftWall_917 2 2 1.6 0.4 0 15.476 45
STRIP LeftWall_917 2 2 2 0.4 0 18.916 45
STRIP LeftWall_917 2 2 2.4 0.4 0 22.355 45
STRIP LeftWall_917 2 2 2.8 0.4 0 25.794 45
STRIP LeftWall_917 2 2 3.2 0.4 0 29.233 45
STRIP LeftWall_917 2 2 3.6 0.4 0 32.672 45
STRIP LeftWall_917 2 2 4 0.4 0 36.112 45
STRIP LeftWall_917 2 2 4.4 0.4 0 39.551 45
STRIP LeftWall_917 2 2 4.8 0.4 0 42.99 45
STRIP LeftWall_917 2 2 5.2 0.4 0 46.429 45
STRIP LeftWall_917 2 2 5.6 0.4 0 49.868 45
STRIP LeftWall_917 2 2 6 0.4 0 53.308 45
STRIP LeftWall_917 2 2 6.4 0.4 0 56.747 45
STRIP LeftWall_917 2 2 6.8 0.4 0 60.186 45
STRIP LeftWall_917 2 2 7.2 0.4 0 63.625 45
STRIP LeftWall_917 2 2 7.6 0.4 0 67.064 45
STRIP LeftWall_917 2 2 8 0.4 0 70.504 45
STRIP LeftWall_917 2 2 8.4 0.4 0 73.943 45
STRIP LeftWall_917 2 2 8.8 0.4 0 77.382 45
STRIP LeftWall_917 2 2 9.2 0.4 0 80.821 45
STRIP LeftWall_917 2 2 9.6 0.4 0 84.26 45
STRIP LeftWall_917 2 2 10 0.4 0 87.7 45
STRIP LeftWall_917 2 2 10.4 0.4 0 91.139 45
STRIP LeftWall_917 2 2 10.8 0.4 0 94.578 45
STRIP LeftWall_917 2 2 11.2 0.4 0 98.017 45
STRIP LeftWall_917 2 2 11.6 0.4 0 101.46 45
STRIP LeftWall_917 2 2 12 0.4 0 104.9 45
STRIP LeftWall_917 2 2 12.4 0.4 0 108.33 45
STRIP LeftWall_917 2 2 12.8 0.4 0 111.77 45
STRIP LeftWall_917 2 2 13.2 0.4 0 115.21 45
STRIP LeftWall_917 2 2 13.6 0.4 0 118.65 45
STRIP LeftWall_917 2 2 14 0.4 0 122.09 45
STRIP LeftWall_917 2 2 14.4 0.4 0 125.53 45
STRIP LeftWall_917 2 2 14.8 0.4 0 128.97 45
STRIP LeftWall_917 2 2 15.2 0.4 0 132.41 45
STRIP LeftWall_917 2 2 15.6 0.4 0 135.85 45
STRIP LeftWall_917 2 2 16 0.4 0 139.29 45
STRIP LeftWall_917 2 2 16.4 0.4 0 142.73 45
STRIP LeftWall_917 2 2 16.8 0.4 0 146.17 45
STRIP LeftWall_917 2 2 17.2 0.4 0 149.61 45
STRIP LeftWall_917 2 2 17.6 0.4 0 153.04 45
STRIP LeftWall_917 2 2 18 0.4 0 156.48 45
STRIP LeftWall_917 2 2 18.4 0.4 0 159.92 45
STRIP LeftWall_917 2 2 18.8 0.4 0 163.36 45
STRIP LeftWall_917 2 2 19.2 0.4 0 166.8 45
STRIP LeftWall_917 2 2 19.6 0.4 0 170.24 45
STRIP LeftWall_917 2 2 20 0.4 0 173.68 45
STRIP LeftWall_917 2 2 20.4 0.4 0 177.12 45
STRIP LeftWall_917 2 2 20.8 0.4 0 180.56 45
STRIP LeftWall_917 2 2 21.2 0.4 0 184 45
STRIP LeftWall_917 2 2 21.6 0.4 0 187.44 45
STRIP LeftWall_917 2 2 22 0.4 0 190.88 45
STRIP LeftWall_917 2 2 22.4 0.4 0 194.31 45
STRIP LeftWall_917 2 2 22.8 0.4 0 197.75 45
STRIP LeftWall_917 2 2 23.2 0.4 0 201.19 45
STRIP LeftWall_917 2 2 23.6 0.4 0 204.63 45
STRIP LeftWall_917 2 2 24 0.4 0 208.07 45
STRIP LeftWall_917 2 2 24.4 0.4 0 211.51 45
STRIP LeftWall_917 2 2 24.8 0.4 0 214.95 45
STRIP LeftWall_917 2 2 25.2 0.4 0 218.39 45
STRIP LeftWall_917 2 2 25.6 0.4 0 221.83 45
STRIP LeftWall_917 2 2 26 0.4 0 225.27 45
STRIP LeftWall_917 2 2 26.4 0.4 0 228.71 45
STRIP LeftWall_917 2 2 26.8 0.4 0 232.15 45
STRIP LeftWall_917 2 2 27.2 0.4 0 235.59 45
STRIP LeftWall_917 2 2 27.6 0.4 0 239.02 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



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Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 2 2 28 0.4 0 242.46 45
STRIP LeftWall_917 2 2 28.4 0.4 0 245.9 45
STRIP LeftWall_917 2 2 28.8 0.4 0 249.34 45
STRIP LeftWall_917 2 2 29.2 0.4 0 252.78 45
STRIP LeftWall_917 2 2 29.6 0.4 0 256.22 45
STRIP LeftWall_917 3 3 0 0.4 0 1.7196 45
STRIP LeftWall_917 3 3 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 3 3 0.8 0.4 0 8.598 45
STRIP LeftWall_917 3 3 1.2 0.4 0 12.037 45
STRIP LeftWall_917 3 3 1.6 0.4 0 15.476 45
STRIP LeftWall_917 3 3 2 0.4 0 18.916 45
STRIP LeftWall_917 3 3 2.4 0.4 0 22.355 45
STRIP LeftWall_917 3 3 2.8 0.4 0 25.794 45
STRIP LeftWall_917 3 3 3.2 0.4 0 29.233 45
STRIP LeftWall_917 3 3 3.6 0.4 0 32.672 45
STRIP LeftWall_917 3 3 4 0.4 0 36.112 45
STRIP LeftWall_917 3 3 4.4 0.4 0 39.551 45
STRIP LeftWall_917 3 3 4.8 0.4 0 42.99 45
STRIP LeftWall_917 3 3 5.2 0.4 0 46.429 45
STRIP LeftWall_917 3 3 5.6 0.4 0 49.868 45
STRIP LeftWall_917 3 3 6 0.4 0 53.308 45
STRIP LeftWall_917 3 3 6.4 0.4 0 56.747 45
STRIP LeftWall_917 3 3 6.8 0.4 0 60.186 45
STRIP LeftWall_917 3 3 7.2 0.4 0 63.625 45
STRIP LeftWall_917 3 3 7.6 0.4 0 67.064 45
STRIP LeftWall_917 3 3 8 0.4 0 70.504 45
STRIP LeftWall_917 3 3 8.4 0.4 0 73.943 45
STRIP LeftWall_917 3 3 8.8 0.4 0 77.382 45
STRIP LeftWall_917 3 3 9.2 0.4 0 80.821 45
STRIP LeftWall_917 3 3 9.6 0.4 0 84.26 45
STRIP LeftWall_917 3 3 10 0.4 0 87.7 45
STRIP LeftWall_917 3 3 10.4 0.4 0 91.139 45
STRIP LeftWall_917 3 3 10.8 0.4 0 94.578 45
STRIP LeftWall_917 3 3 11.2 0.4 0 98.017 45
STRIP LeftWall_917 3 3 11.6 0.4 0 101.46 45
STRIP LeftWall_917 3 3 12 0.4 0 104.9 45
STRIP LeftWall_917 3 3 12.4 0.4 0 108.33 45
STRIP LeftWall_917 3 3 12.8 0.4 0 111.77 45
STRIP LeftWall_917 3 3 13.2 0.4 0 115.21 45
STRIP LeftWall_917 3 3 13.6 0.4 0 118.65 45
STRIP LeftWall_917 3 3 14 0.4 0 122.09 45
STRIP LeftWall_917 3 3 14.4 0.4 0 125.53 45
STRIP LeftWall_917 3 3 14.8 0.4 0 128.97 45
STRIP LeftWall_917 3 3 15.2 0.4 0 132.41 45
STRIP LeftWall_917 3 3 15.6 0.4 0 135.85 45
STRIP LeftWall_917 3 3 16 0.4 0 139.29 45
STRIP LeftWall_917 3 3 16.4 0.4 0 142.73 45
STRIP LeftWall_917 3 3 16.8 0.4 0 146.17 45
STRIP LeftWall_917 3 3 17.2 0.4 0 149.61 45
STRIP LeftWall_917 3 3 17.6 0.4 0 153.04 45
STRIP LeftWall_917 3 3 18 0.4 0 156.48 45
STRIP LeftWall_917 3 3 18.4 0.4 0 159.92 45
STRIP LeftWall_917 3 3 18.8 0.4 0 163.36 45
STRIP LeftWall_917 3 3 19.2 0.4 0 166.8 45
STRIP LeftWall_917 3 3 19.6 0.4 0 170.24 45
STRIP LeftWall_917 3 3 20 0.4 0 173.68 45
STRIP LeftWall_917 3 3 20.4 0.4 0 177.12 45
STRIP LeftWall_917 3 3 20.8 0.4 0 180.56 45
STRIP LeftWall_917 3 3 21.2 0.4 0 184 45
STRIP LeftWall_917 3 3 21.6 0.4 0 187.44 45
STRIP LeftWall_917 3 3 22 0.4 0 190.88 45
STRIP LeftWall_917 3 3 22.4 0.4 0 194.31 45
STRIP LeftWall_917 3 3 22.8 0.4 0 197.75 45
STRIP LeftWall_917 3 3 23.2 0.4 0 201.19 45
STRIP LeftWall_917 3 3 23.6 0.4 0 204.63 45
STRIP LeftWall_917 3 3 24 0.4 0 208.07 45
STRIP LeftWall_917 3 3 24.4 0.4 0 211.51 45
STRIP LeftWall_917 3 3 24.8 0.4 0 214.95 45
STRIP LeftWall_917 3 3 25.2 0.4 0 218.39 45
STRIP LeftWall_917 3 3 25.6 0.4 0 221.83 45
STRIP LeftWall_917 3 3 26 0.4 0 225.27 45
STRIP LeftWall_917 3 3 26.4 0.4 0 228.71 45
STRIP LeftWall_917 3 3 26.8 0.4 0 232.15 45
STRIP LeftWall_917 3 3 27.2 0.4 0 235.59 45
STRIP LeftWall_917 3 3 27.6 0.4 0 239.02 45
STRIP LeftWall_917 3 3 28 0.4 0 242.46 45
STRIP LeftWall_917 3 3 28.4 0.4 0 245.9 45
STRIP LeftWall_917 3 3 28.8 0.4 0 249.34 45
STRIP LeftWall_917 3 3 29.2 0.4 0 252.78 45
STRIP LeftWall_917 3 3 29.6 0.4 0 256.22 45
STRIP LeftWall_917 4 4 0 0.4 0 1.7196 45
STRIP LeftWall_917 4 4 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 4 4 0.8 0.4 0 8.598 45
STRIP LeftWall_917 4 4 1.2 0.4 0 12.037 45
STRIP LeftWall_917 4 4 1.6 0.4 0 15.476 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	4	4	2	0.4	0	18.916	45
STRIP LeftWall_917	4	4	2.4	0.4	0	22.355	45
STRIP LeftWall_917	4	4	2.8	0.4	0	25.794	45
STRIP LeftWall_917	4	4	3.2	0.4	0	29.233	45
STRIP LeftWall_917	4	4	3.6	0.4	0	32.672	45
STRIP LeftWall_917	4	4	4	0.4	0	36.112	45
STRIP LeftWall_917	4	4	4.4	0.4	0	39.551	45
STRIP LeftWall_917	4	4	4.8	0.4	0	42.99	45
STRIP LeftWall_917	4	4	5.2	0.4	0	46.429	45
STRIP LeftWall_917	4	4	5.6	0.4	0	49.868	45
STRIP LeftWall_917	4	4	6	0.4	0	53.308	45
STRIP LeftWall_917	4	4	6.4	0.4	0	56.747	45
STRIP LeftWall_917	4	4	6.8	0.4	0	60.186	45
STRIP LeftWall_917	4	4	7.2	0.4	0	63.625	45
STRIP LeftWall_917	4	4	7.6	0.4	0	67.064	45
STRIP LeftWall_917	4	4	8	0.4	0	70.504	45
STRIP LeftWall_917	4	4	8.4	0.4	0	73.943	45
STRIP LeftWall_917	4	4	8.8	0.4	0	77.382	45
STRIP LeftWall_917	4	4	9.2	0.4	0	80.821	45
STRIP LeftWall_917	4	4	9.6	0.4	0	84.26	45
STRIP LeftWall_917	4	4	10	0.4	0	87.7	45
STRIP LeftWall_917	4	4	10.4	0.4	0	91.139	45
STRIP LeftWall_917	4	4	10.8	0.4	0	94.578	45
STRIP LeftWall_917	4	4	11.2	0.4	0	98.017	45
STRIP LeftWall_917	4	4	11.6	0.4	0	101.46	45
STRIP LeftWall_917	4	4	12	0.4	0	104.9	45
STRIP LeftWall_917	4	4	12.4	0.4	0	108.33	45
STRIP LeftWall_917	4	4	12.8	0.4	0	111.77	45
STRIP LeftWall_917	4	4	13.2	0.4	0	115.21	45
STRIP LeftWall_917	4	4	13.6	0.4	0	118.65	45
STRIP LeftWall_917	4	4	14	0.4	0	122.09	45
STRIP LeftWall_917	4	4	14.4	0.4	0	125.53	45
STRIP LeftWall_917	4	4	14.8	0.4	0	128.97	45
STRIP LeftWall_917	4	4	15.2	0.4	0	132.41	45
STRIP LeftWall_917	4	4	15.6	0.4	0	135.85	45
STRIP LeftWall_917	4	4	16	0.4	0	139.29	45
STRIP LeftWall_917	4	4	16.4	0.4	0	142.73	45
STRIP LeftWall_917	4	4	16.8	0.4	0	146.17	45
STRIP LeftWall_917	4	4	17.2	0.4	0	149.61	45
STRIP LeftWall_917	4	4	17.6	0.4	0	153.04	45
STRIP LeftWall_917	4	4	18	0.4	0	156.48	45
STRIP LeftWall_917	4	4	18.4	0.4	0	159.92	45
STRIP LeftWall_917	4	4	18.8	0.4	0	163.36	45
STRIP LeftWall_917	4	4	19.2	0.4	0	166.8	45
STRIP LeftWall_917	4	4	19.6	0.4	0	170.24	45
STRIP LeftWall_917	4	4	20	0.4	0	173.68	45
STRIP LeftWall_917	4	4	20.4	0.4	0	177.12	45
STRIP LeftWall_917	4	4	20.8	0.4	0	180.56	45
STRIP LeftWall_917	4	4	21.2	0.4	0	184	45
STRIP LeftWall_917	4	4	21.6	0.4	0	187.44	45
STRIP LeftWall_917	4	4	22	0.4	0	190.88	45
STRIP LeftWall_917	4	4	22.4	0.4	0	194.31	45
STRIP LeftWall_917	4	4	22.8	0.4	0	197.75	45
STRIP LeftWall_917	4	4	23.2	0.4	0	201.19	45
STRIP LeftWall_917	4	4	23.6	0.4	0	204.63	45
STRIP LeftWall_917	4	4	24	0.4	0	208.07	45
STRIP LeftWall_917	4	4	24.4	0.4	0	211.51	45
STRIP LeftWall_917	4	4	24.8	0.4	0	214.95	45
STRIP LeftWall_917	4	4	25.2	0.4	0	218.39	45
STRIP LeftWall_917	4	4	25.6	0.4	0	221.83	45
STRIP LeftWall_917	4	4	26	0.4	0	225.27	45
STRIP LeftWall_917	4	4	26.4	0.4	0	228.71	45
STRIP LeftWall_917	4	4	26.8	0.4	0	232.15	45
STRIP LeftWall_917	4	4	27.2	0.4	0	235.59	45
STRIP LeftWall_917	4	4	27.6	0.4	0	239.02	45
STRIP LeftWall_917	4	4	28	0.4	0	242.46	45
STRIP LeftWall_917	4	4	28.4	0.4	0	245.9	45
STRIP LeftWall_917	4	4	28.8	0.4	0	249.34	45
STRIP LeftWall_917	4	4	29.2	0.4	0	252.78	45
STRIP LeftWall_917	4	4	29.6	0.4	0	256.22	45
STRIP LeftWall_917	5	5	0	0.4	0	1.7196	45
STRIP LeftWall_917	5	5	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	5	5	0.8	0.4	0	8.598	45
STRIP LeftWall_917	5	5	1.2	0.4	0	12.037	45
STRIP LeftWall_917	5	5	1.6	0.4	0	15.476	45
STRIP LeftWall_917	5	5	2	0.4	0	18.916	45
STRIP LeftWall_917	5	5	2.4	0.4	0	22.355	45
STRIP LeftWall_917	5	5	2.8	0.4	0	25.794	45
STRIP LeftWall_917	5	5	3.2	0.4	0	29.233	45
STRIP LeftWall_917	5	5	3.6	0.4	0	32.672	45
STRIP LeftWall_917	5	5	4	0.4	0	36.112	45
STRIP LeftWall_917	5	5	4.4	0.4	0	39.551	45
STRIP LeftWall_917	5	5	4.8	0.4	0	42.99	45
STRIP LeftWall_917	5	5	5.2	0.4	0	46.429	45
STRIP LeftWall_917	5	5	5.6	0.4	0	49.868	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 5 5 6 0.4 0 53.308 45
STRIP LeftWall_917 5 5 6.4 0.4 0 56.747 45
STRIP LeftWall_917 5 5 6.8 0.4 0 60.186 45
STRIP LeftWall_917 5 5 7.2 0.4 0 63.625 45
STRIP LeftWall_917 5 5 7.6 0.4 0 67.064 45
STRIP LeftWall_917 5 5 8 0.4 0 70.504 45
STRIP LeftWall_917 5 5 8.4 0.4 0 73.943 45
STRIP LeftWall_917 5 5 8.8 0.4 0 77.382 45
STRIP LeftWall_917 5 5 9.2 0.4 0 80.821 45
STRIP LeftWall_917 5 5 9.6 0.4 0 84.26 45
STRIP LeftWall_917 5 5 10 0.4 0 87.7 45
STRIP LeftWall_917 5 5 10.4 0.4 0 91.139 45
STRIP LeftWall_917 5 5 10.8 0.4 0 94.578 45
STRIP LeftWall_917 5 5 11.2 0.4 0 98.017 45
STRIP LeftWall_917 5 5 11.6 0.4 0 101.46 45
STRIP LeftWall_917 5 5 12 0.4 0 104.9 45
STRIP LeftWall_917 5 5 12.4 0.4 0 108.33 45
STRIP LeftWall_917 5 5 12.8 0.4 0 111.77 45
STRIP LeftWall_917 5 5 13.2 0.4 0 115.21 45
STRIP LeftWall_917 5 5 13.6 0.4 0 118.65 45
STRIP LeftWall_917 5 5 14 0.4 0 122.09 45
STRIP LeftWall_917 5 5 14.4 0.4 0 125.53 45
STRIP LeftWall_917 5 5 14.8 0.4 0 128.97 45
STRIP LeftWall_917 5 5 15.2 0.4 0 132.41 45
STRIP LeftWall_917 5 5 15.6 0.4 0 135.85 45
STRIP LeftWall_917 5 5 16 0.4 0 139.29 45
STRIP LeftWall_917 5 5 16.4 0.4 0 142.73 45
STRIP LeftWall_917 5 5 16.8 0.4 0 146.17 45
STRIP LeftWall_917 5 5 17.2 0.4 0 149.61 45
STRIP LeftWall_917 5 5 17.6 0.4 0 153.04 45
STRIP LeftWall_917 5 5 18 0.4 0 156.48 45
STRIP LeftWall_917 5 5 18.4 0.4 0 159.92 45
STRIP LeftWall_917 5 5 18.8 0.4 0 163.36 45
STRIP LeftWall_917 5 5 19.2 0.4 0 166.8 45
STRIP LeftWall_917 5 5 19.6 0.4 0 170.24 45
STRIP LeftWall_917 5 5 20 0.4 0 173.68 45
STRIP LeftWall_917 5 5 20.4 0.4 0 177.12 45
STRIP LeftWall_917 5 5 20.8 0.4 0 180.56 45
STRIP LeftWall_917 5 5 21.2 0.4 0 184 45
STRIP LeftWall_917 5 5 21.6 0.4 0 187.44 45
STRIP LeftWall_917 5 5 22 0.4 0 190.88 45
STRIP LeftWall_917 5 5 22.4 0.4 0 194.31 45
STRIP LeftWall_917 5 5 22.8 0.4 0 197.75 45
STRIP LeftWall_917 5 5 23.2 0.4 0 201.19 45
STRIP LeftWall_917 5 5 23.6 0.4 0 204.63 45
STRIP LeftWall_917 5 5 24 0.4 0 208.07 45
STRIP LeftWall_917 5 5 24.4 0.4 0 211.51 45
STRIP LeftWall_917 5 5 24.8 0.4 0 214.95 45
STRIP LeftWall_917 5 5 25.2 0.4 0 218.39 45
STRIP LeftWall_917 5 5 25.6 0.4 0 221.83 45
STRIP LeftWall_917 5 5 26 0.4 0 225.27 45
STRIP LeftWall_917 5 5 26.4 0.4 0 228.71 45
STRIP LeftWall_917 5 5 26.8 0.4 0 232.15 45
STRIP LeftWall_917 5 5 27.2 0.4 0 235.59 45
STRIP LeftWall_917 5 5 27.6 0.4 0 239.02 45
STRIP LeftWall_917 5 5 28 0.4 0 242.46 45
STRIP LeftWall_917 5 5 28.4 0.4 0 245.9 45
STRIP LeftWall_917 5 5 28.8 0.4 0 249.34 45
STRIP LeftWall_917 5 5 29.2 0.4 0 252.78 45
STRIP LeftWall_917 5 5 29.6 0.4 0 256.22 45
STRIP LeftWall_917 6 6 0 0.4 0 1.7196 45
STRIP LeftWall_917 6 6 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 6 6 0.8 0.4 0 8.598 45
STRIP LeftWall_917 6 6 1.2 0.4 0 12.037 45
STRIP LeftWall_917 6 6 1.6 0.4 0 15.476 45
STRIP LeftWall_917 6 6 2 0.4 0 18.916 45
STRIP LeftWall_917 6 6 2.4 0.4 0 22.355 45
STRIP LeftWall_917 6 6 2.8 0.4 0 25.794 45
STRIP LeftWall_917 6 6 3.2 0.4 0 29.233 45
STRIP LeftWall_917 6 6 3.6 0.4 0 32.672 45
STRIP LeftWall_917 6 6 4 0.4 0 36.112 45
STRIP LeftWall_917 6 6 4.4 0.4 0 39.551 45
STRIP LeftWall_917 6 6 4.8 0.4 0 42.99 45
STRIP LeftWall_917 6 6 5.2 0.4 0 46.429 45
STRIP LeftWall_917 6 6 5.6 0.4 0 49.868 45
STRIP LeftWall_917 6 6 6 0.4 0 53.308 45
STRIP LeftWall_917 6 6 6.4 0.4 0 56.747 45
STRIP LeftWall_917 6 6 6.8 0.4 0 60.186 45
STRIP LeftWall_917 6 6 7.2 0.4 0 63.625 45
STRIP LeftWall_917 6 6 7.6 0.4 0 67.064 45
STRIP LeftWall_917 6 6 8 0.4 0 70.504 45
STRIP LeftWall_917 6 6 8.4 0.4 0 73.943 45
STRIP LeftWall_917 6 6 8.8 0.4 0 77.382 45
STRIP LeftWall_917 6 6 9.2 0.4 0 80.821 45
STRIP LeftWall_917 6 6 9.6 0.4 0 84.26 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917 6 6 10 0.4 0 87.7 45
STRIP LeftWall_917 6 6 10.4 0.4 0 91.139 45
STRIP LeftWall_917 6 6 10.8 0.4 0 94.578 45
STRIP LeftWall_917 6 6 11.2 0.4 0 98.017 45
STRIP LeftWall_917 6 6 11.6 0.4 0 101.46 45
STRIP LeftWall_917 6 6 12 0.4 0 104.9 45
STRIP LeftWall_917 6 6 12.4 0.4 0 108.33 45
STRIP LeftWall_917 6 6 12.8 0.4 0 111.77 45
STRIP LeftWall_917 6 6 13.2 0.4 0 115.21 45
STRIP LeftWall_917 6 6 13.6 0.4 0 118.65 45
STRIP LeftWall_917 6 6 14 0.4 0 122.09 45
STRIP LeftWall_917 6 6 14.4 0.4 0 125.53 45
STRIP LeftWall_917 6 6 14.8 0.4 0 128.97 45
STRIP LeftWall_917 6 6 15.2 0.4 0 132.41 45
STRIP LeftWall_917 6 6 15.6 0.4 0 135.85 45
STRIP LeftWall_917 6 6 16 0.4 0 139.29 45
STRIP LeftWall_917 6 6 16.4 0.4 0 142.73 45
STRIP LeftWall_917 6 6 16.8 0.4 0 146.17 45
STRIP LeftWall_917 6 6 17.2 0.4 0 149.61 45
STRIP LeftWall_917 6 6 17.6 0.4 0 153.04 45
STRIP LeftWall_917 6 6 18 0.4 0 156.48 45
STRIP LeftWall_917 6 6 18.4 0.4 0 159.92 45
STRIP LeftWall_917 6 6 18.8 0.4 0 163.36 45
STRIP LeftWall_917 6 6 19.2 0.4 0 166.8 45
STRIP LeftWall_917 6 6 19.6 0.4 0 170.24 45
STRIP LeftWall_917 6 6 20 0.4 0 173.68 45
STRIP LeftWall_917 6 6 20.4 0.4 0 177.12 45
STRIP LeftWall_917 6 6 20.8 0.4 0 180.56 45
STRIP LeftWall_917 6 6 21.2 0.4 0 184 45
STRIP LeftWall_917 6 6 21.6 0.4 0 187.44 45
STRIP LeftWall_917 6 6 22 0.4 0 190.88 45
STRIP LeftWall_917 6 6 22.4 0.4 0 194.31 45
STRIP LeftWall_917 6 6 22.8 0.4 0 197.75 45
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STRIP LeftWall_917 6 6 24 0.4 0 208.07 45
STRIP LeftWall_917 6 6 24.4 0.4 0 211.51 45
STRIP LeftWall_917 6 6 24.8 0.4 0 214.95 45
STRIP LeftWall_917 6 6 25.2 0.4 0 218.39 45
STRIP LeftWall_917 6 6 25.6 0.4 0 221.83 45
STRIP LeftWall_917 6 6 26 0.4 0 225.27 45
STRIP LeftWall_917 6 6 26.4 0.4 0 228.71 45
STRIP LeftWall_917 6 6 26.8 0.4 0 232.15 45
STRIP LeftWall_917 6 6 27.2 0.4 0 235.59 45
STRIP LeftWall_917 6 6 27.6 0.4 0 239.02 45
STRIP LeftWall_917 6 6 28 0.4 0 242.46 45
STRIP LeftWall_917 6 6 28.4 0.4 0 245.9 45
STRIP LeftWall_917 6 6 28.8 0.4 0 249.34 45
STRIP LeftWall_917 6 6 29.2 0.4 0 252.78 45
STRIP LeftWall_917 6 6 29.6 0.4 0 256.22 45
STRIP LeftWall_917 7 7 0 0.4 0 1.7196 45
STRIP LeftWall_917 7 7 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 7 7 0.8 0.4 0 8.598 45
STRIP LeftWall_917 7 7 1.2 0.4 0 12.037 45
STRIP LeftWall_917 7 7 1.6 0.4 0 15.476 45
STRIP LeftWall_917 7 7 2 0.4 0 18.916 45
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STRIP LeftWall_917 7 7 2.8 0.4 0 25.794 45
STRIP LeftWall_917 7 7 3.2 0.4 0 29.233 45
STRIP LeftWall_917 7 7 3.6 0.4 0 32.672 45
STRIP LeftWall_917 7 7 4 0.4 0 36.112 45
STRIP LeftWall_917 7 7 4.4 0.4 0 39.551 45
STRIP LeftWall_917 7 7 4.8 0.4 0 42.99 45
STRIP LeftWall_917 7 7 5.2 0.4 0 46.429 45
STRIP LeftWall_917 7 7 5.6 0.4 0 49.868 45
STRIP LeftWall_917 7 7 6 0.4 0 53.308 45
STRIP LeftWall_917 7 7 6.4 0.4 0 56.747 45
STRIP LeftWall_917 7 7 6.8 0.4 0 60.186 45
STRIP LeftWall_917 7 7 7.2 0.4 0 63.625 45
STRIP LeftWall_917 7 7 7.6 0.4 0 67.064 45
STRIP LeftWall_917 7 7 8 0.4 0 70.504 45
STRIP LeftWall_917 7 7 8.4 0.4 0 73.943 45
STRIP LeftWall_917 7 7 8.8 0.4 0 77.382 45
STRIP LeftWall_917 7 7 9.2 0.4 0 80.821 45
STRIP LeftWall_917 7 7 9.6 0.4 0 84.26 45
STRIP LeftWall_917 7 7 10 0.4 0 87.7 45
STRIP LeftWall_917 7 7 10.4 0.4 0 91.139 45
STRIP LeftWall_917 7 7 10.8 0.4 0 94.578 45
STRIP LeftWall_917 7 7 11.2 0.4 0 98.017 45
STRIP LeftWall_917 7 7 11.6 0.4 0 101.46 45
STRIP LeftWall_917 7 7 12 0.4 0 104.9 45
STRIP LeftWall_917 7 7 12.4 0.4 0 108.33 45
STRIP LeftWall_917 7 7 12.8 0.4 0 111.77 45
STRIP LeftWall_917 7 7 13.2 0.4 0 115.21 45
STRIP LeftWall_917 7 7 13.6 0.4 0 118.65 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 7 7 14 0.4 0 122.09 45
STRIP LeftWall_917 7 7 14.4 0.4 0 125.53 45
STRIP LeftWall_917 7 7 14.8 0.4 0 128.97 45
STRIP LeftWall_917 7 7 15.2 0.4 0 132.41 45
STRIP LeftWall_917 7 7 15.6 0.4 0 135.85 45
STRIP LeftWall_917 7 7 16 0.4 0 139.29 45
STRIP LeftWall_917 7 7 16.4 0.4 0 142.73 45
STRIP LeftWall_917 7 7 16.8 0.4 0 146.17 45
STRIP LeftWall_917 7 7 17.2 0.4 0 149.61 45
STRIP LeftWall_917 7 7 17.6 0.4 0 153.04 45
STRIP LeftWall_917 7 7 18 0.4 0 156.48 45
STRIP LeftWall_917 7 7 18.4 0.4 0 159.92 45
STRIP LeftWall_917 7 7 18.8 0.4 0 163.36 45
STRIP LeftWall_917 7 7 19.2 0.4 0 166.8 45
STRIP LeftWall_917 7 7 19.6 0.4 0 170.24 45
STRIP LeftWall_917 7 7 20 0.4 0 173.68 45
STRIP LeftWall_917 7 7 20.4 0.4 0 177.12 45
STRIP LeftWall_917 7 7 20.8 0.4 0 180.56 45
STRIP LeftWall_917 7 7 21.2 0.4 0 184 45
STRIP LeftWall_917 7 7 21.6 0.4 0 187.44 45
STRIP LeftWall_917 7 7 22 0.4 0 190.88 45
STRIP LeftWall_917 7 7 22.4 0.4 0 194.31 45
STRIP LeftWall_917 7 7 22.8 0.4 0 197.75 45
STRIP LeftWall_917 7 7 23.2 0.4 0 201.19 45
STRIP LeftWall_917 7 7 23.6 0.4 0 204.63 45
STRIP LeftWall_917 7 7 24 0.4 0 208.07 45
STRIP LeftWall_917 7 7 24.4 0.4 0 211.51 45
STRIP LeftWall_917 7 7 24.8 0.4 0 214.95 45
STRIP LeftWall_917 7 7 25.2 0.4 0 218.39 45
STRIP LeftWall_917 7 7 25.6 0.4 0 221.83 45
STRIP LeftWall_917 7 7 26 0.4 0 225.27 45
STRIP LeftWall_917 7 7 26.4 0.4 0 228.71 45
STRIP LeftWall_917 7 7 26.8 0.4 0 232.15 45
STRIP LeftWall_917 7 7 27.2 0.4 0 235.59 45
STRIP LeftWall_917 7 7 27.6 0.4 0 239.02 45
STRIP LeftWall_917 7 7 28 0.4 0 242.46 45
STRIP LeftWall_917 7 7 28.4 0.4 0 245.9 45
STRIP LeftWall_917 7 7 28.8 0.4 0 249.34 45
STRIP LeftWall_917 7 7 29.2 0.4 0 252.78 45
STRIP LeftWall_917 7 7 29.6 0.4 0 256.22 45
STRIP LeftWall_917 8 8 0 0.4 0 1.7196 45
STRIP LeftWall_917 8 8 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 8 8 0.8 0.4 0 8.598 45
STRIP LeftWall_917 8 8 1.2 0.4 0 12.037 45
STRIP LeftWall_917 8 8 1.6 0.4 0 15.476 45
STRIP LeftWall_917 8 8 2 0.4 0 18.916 45
STRIP LeftWall_917 8 8 2.4 0.4 0 22.355 45
STRIP LeftWall_917 8 8 2.8 0.4 0 25.794 45
STRIP LeftWall_917 8 8 3.2 0.4 0 29.233 45
STRIP LeftWall_917 8 8 3.6 0.4 0 32.672 45
STRIP LeftWall_917 8 8 4 0.4 0 36.112 45
STRIP LeftWall_917 8 8 4.4 0.4 0 39.551 45
STRIP LeftWall_917 8 8 4.8 0.4 0 42.99 45
STRIP LeftWall_917 8 8 5.2 0.4 0 46.429 45
STRIP LeftWall_917 8 8 5.6 0.4 0 49.868 45
STRIP LeftWall_917 8 8 6 0.4 0 53.308 45
STRIP LeftWall_917 8 8 6.4 0.4 0 56.747 45
STRIP LeftWall_917 8 8 6.8 0.4 0 60.186 45
STRIP LeftWall_917 8 8 7.2 0.4 0 63.625 45
STRIP LeftWall_917 8 8 7.6 0.4 0 67.064 45
STRIP LeftWall_917 8 8 8 0.4 0 70.504 45
STRIP LeftWall_917 8 8 8.4 0.4 0 73.943 45
STRIP LeftWall_917 8 8 8.8 0.4 0 77.382 45
STRIP LeftWall_917 8 8 9.2 0.4 0 80.821 45
STRIP LeftWall_917 8 8 9.6 0.4 0 84.26 45
STRIP LeftWall_917 8 8 10 0.4 0 87.7 45
STRIP LeftWall_917 8 8 10.4 0.4 0 91.139 45
STRIP LeftWall_917 8 8 10.8 0.4 0 94.578 45
STRIP LeftWall_917 8 8 11.2 0.4 0 98.017 45
STRIP LeftWall_917 8 8 11.6 0.4 0 101.46 45
STRIP LeftWall_917 8 8 12 0.4 0 104.9 45
STRIP LeftWall_917 8 8 12.4 0.4 0 108.33 45
STRIP LeftWall_917 8 8 12.8 0.4 0 111.77 45
STRIP LeftWall_917 8 8 13.2 0.4 0 115.21 45
STRIP LeftWall_917 8 8 13.6 0.4 0 118.65 45
STRIP LeftWall_917 8 8 14 0.4 0 122.09 45
STRIP LeftWall_917 8 8 14.4 0.4 0 125.53 45
STRIP LeftWall_917 8 8 14.8 0.4 0 128.97 45
STRIP LeftWall_917 8 8 15.2 0.4 0 132.41 45
STRIP LeftWall_917 8 8 15.6 0.4 0 135.85 45
STRIP LeftWall_917 8 8 16 0.4 0 139.29 45
STRIP LeftWall_917 8 8 16.4 0.4 0 142.73 45
STRIP LeftWall_917 8 8 16.8 0.4 0 146.17 45
STRIP LeftWall_917 8 8 17.2 0.4 0 149.61 45
STRIP LeftWall_917 8 8 17.6 0.4 0 153.04 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 8 8 18 0.4 0 156.48 45
STRIP LeftWall_917 8 8 18.4 0.4 0 159.92 45
STRIP LeftWall_917 8 8 18.8 0.4 0 163.36 45
STRIP LeftWall_917 8 8 19.2 0.4 0 166.8 45
STRIP LeftWall_917 8 8 19.6 0.4 0 170.24 45
STRIP LeftWall_917 8 8 20 0.4 0 173.68 45
STRIP LeftWall_917 8 8 20.4 0.4 0 177.12 45
STRIP LeftWall_917 8 8 20.8 0.4 0 180.56 45
STRIP LeftWall_917 8 8 21.2 0.4 0 184 45
STRIP LeftWall_917 8 8 21.6 0.4 0 187.44 45
STRIP LeftWall_917 8 8 22 0.4 0 190.88 45
STRIP LeftWall_917 8 8 22.4 0.4 0 194.31 45
STRIP LeftWall_917 8 8 22.8 0.4 0 197.75 45
STRIP LeftWall_917 8 8 23.2 0.4 0 201.19 45
STRIP LeftWall_917 8 8 23.6 0.4 0 204.63 45
STRIP LeftWall_917 8 8 24 0.4 0 208.07 45
STRIP LeftWall_917 8 8 24.4 0.4 0 211.51 45
STRIP LeftWall_917 8 8 24.8 0.4 0 214.95 45
STRIP LeftWall_917 8 8 25.2 0.4 0 218.39 45
STRIP LeftWall_917 8 8 25.6 0.4 0 221.83 45
STRIP LeftWall_917 8 8 26 0.4 0 225.27 45
STRIP LeftWall_917 8 8 26.4 0.4 0 228.71 45
STRIP LeftWall_917 8 8 26.8 0.4 0 232.15 45
STRIP LeftWall_917 8 8 27.2 0.4 0 235.59 45
STRIP LeftWall_917 8 8 27.6 0.4 0 239.02 45
STRIP LeftWall_917 8 8 28 0.4 0 242.46 45
STRIP LeftWall_917 8 8 28.4 0.4 0 245.9 45
STRIP LeftWall_917 8 8 28.8 0.4 0 249.34 45
STRIP LeftWall_917 8 8 29.2 0.4 0 252.78 45
STRIP LeftWall_917 8 8 29.6 0.4 0 256.22 45
STRIP LeftWall_917 9 9 0 0.4 0 1.7196 45
STRIP LeftWall_917 9 9 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 9 9 0.8 0.4 0 8.598 45
STRIP LeftWall_917 9 9 1.2 0.4 0 12.037 45
STRIP LeftWall_917 9 9 1.6 0.4 0 15.476 45
STRIP LeftWall_917 9 9 2 0.4 0 18.916 45
STRIP LeftWall_917 9 9 2.4 0.4 0 22.355 45
STRIP LeftWall_917 9 9 2.8 0.4 0 25.794 45
STRIP LeftWall_917 9 9 3.2 0.4 0 29.233 45
STRIP LeftWall_917 9 9 3.6 0.4 0 32.672 45
STRIP LeftWall_917 9 9 4 0.4 0 36.112 45
STRIP LeftWall_917 9 9 4.4 0.4 0 39.551 45
STRIP LeftWall_917 9 9 4.8 0.4 0 42.99 45
STRIP LeftWall_917 9 9 5.2 0.4 0 46.429 45
STRIP LeftWall_917 9 9 5.6 0.4 0 49.868 45
STRIP LeftWall_917 9 9 6 0.4 0 53.308 45
STRIP LeftWall_917 9 9 6.4 0.4 0 56.747 45
STRIP LeftWall_917 9 9 6.8 0.4 0 60.186 45
STRIP LeftWall_917 9 9 7.2 0.4 0 63.625 45
STRIP LeftWall_917 9 9 7.6 0.4 0 67.064 45
STRIP LeftWall_917 9 9 8 0.4 0 70.504 45
STRIP LeftWall_917 9 9 8.4 0.4 0 73.943 45
STRIP LeftWall_917 9 9 8.8 0.4 0 77.382 45
STRIP LeftWall_917 9 9 9.2 0.4 0 80.821 45
STRIP LeftWall_917 9 9 9.6 0.4 0 84.26 45
STRIP LeftWall_917 9 9 10 0.4 0 87.7 45
STRIP LeftWall_917 9 9 10.4 0.4 0 91.139 45
STRIP LeftWall_917 9 9 10.8 0.4 0 94.578 45
STRIP LeftWall_917 9 9 11.2 0.4 0 98.017 45
STRIP LeftWall_917 9 9 11.6 0.4 0 101.46 45
STRIP LeftWall_917 9 9 12 0.4 0 104.9 45
STRIP LeftWall_917 9 9 12.4 0.4 0 108.33 45
STRIP LeftWall_917 9 9 12.8 0.4 0 111.77 45
STRIP LeftWall_917 9 9 13.2 0.4 0 115.21 45
STRIP LeftWall_917 9 9 13.6 0.4 0 118.65 45
STRIP LeftWall_917 9 9 14 0.4 0 122.09 45
STRIP LeftWall_917 9 9 14.4 0.4 0 125.53 45
STRIP LeftWall_917 9 9 14.8 0.4 0 128.97 45
STRIP LeftWall_917 9 9 15.2 0.4 0 132.41 45
STRIP LeftWall_917 9 9 15.6 0.4 0 135.85 45
STRIP LeftWall_917 9 9 16 0.4 0 139.29 45
STRIP LeftWall_917 9 9 16.4 0.4 0 142.73 45
STRIP LeftWall_917 9 9 16.8 0.4 0 146.17 45
STRIP LeftWall_917 9 9 17.2 0.4 0 149.61 45
STRIP LeftWall_917 9 9 17.6 0.4 0 153.04 45
STRIP LeftWall_917 9 9 18 0.4 0 156.48 45
STRIP LeftWall_917 9 9 18.4 0.4 0 159.92 45
STRIP LeftWall_917 9 9 18.8 0.4 0 163.36 45
STRIP LeftWall_917 9 9 19.2 0.4 0 166.8 45
STRIP LeftWall_917 9 9 19.6 0.4 0 170.24 45
STRIP LeftWall_917 9 9 20 0.4 0 173.68 45
STRIP LeftWall_917 9 9 20.4 0.4 0 177.12 45
STRIP LeftWall_917 9 9 20.8 0.4 0 180.56 45
STRIP LeftWall_917 9 9 21.2 0.4 0 184 45
STRIP LeftWall_917 9 9 21.6 0.4 0 187.44 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 9 9 22 0.4 0 190.88 45
STRIP LeftWall_917 9 9 22.4 0.4 0 194.31 45
STRIP LeftWall_917 9 9 22.8 0.4 0 197.75 45
STRIP LeftWall_917 9 9 23.2 0.4 0 201.19 45
STRIP LeftWall_917 9 9 23.6 0.4 0 204.63 45
STRIP LeftWall_917 9 9 24 0.4 0 208.07 45
STRIP LeftWall_917 9 9 24.4 0.4 0 211.51 45
STRIP LeftWall_917 9 9 24.8 0.4 0 214.95 45
STRIP LeftWall_917 9 9 25.2 0.4 0 218.39 45
STRIP LeftWall_917 9 9 25.6 0.4 0 221.83 45
STRIP LeftWall_917 9 9 26 0.4 0 225.27 45
STRIP LeftWall_917 9 9 26.4 0.4 0 228.71 45
STRIP LeftWall_917 9 9 26.8 0.4 0 232.15 45
STRIP LeftWall_917 9 9 27.2 0.4 0 235.59 45
STRIP LeftWall_917 9 9 27.6 0.4 0 239.02 45
STRIP LeftWall_917 9 9 28 0.4 0 242.46 45
STRIP LeftWall_917 9 9 28.4 0.4 0 245.9 45
STRIP LeftWall_917 9 9 28.8 0.4 0 249.34 45
STRIP LeftWall_917 9 9 29.2 0.4 0 252.78 45
STRIP LeftWall_917 9 9 29.6 0.4 0 256.22 45
STRIP LeftWall_917 10 10 0 0.4 0 1.7196 45
STRIP LeftWall_917 10 10 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 10 10 0.8 0.4 0 8.598 45
STRIP LeftWall_917 10 10 1.2 0.4 0 12.037 45
STRIP LeftWall_917 10 10 1.6 0.4 0 15.476 45
STRIP LeftWall_917 10 10 2 0.4 0 18.916 45
STRIP LeftWall_917 10 10 2.4 0.4 0 22.355 45
STRIP LeftWall_917 10 10 2.8 0.4 0 25.794 45
STRIP LeftWall_917 10 10 3.2 0.4 0 29.233 45
STRIP LeftWall_917 10 10 3.6 0.4 0 32.672 45
STRIP LeftWall_917 10 10 4 0.4 0 36.112 45
STRIP LeftWall_917 10 10 4.4 0.4 0 39.551 45
STRIP LeftWall_917 10 10 4.8 0.4 0 42.99 45
STRIP LeftWall_917 10 10 5.2 0.4 0 46.429 45
STRIP LeftWall_917 10 10 5.6 0.4 0 49.868 45
STRIP LeftWall_917 10 10 6 0.4 0 53.308 45
STRIP LeftWall_917 10 10 6.4 0.4 0 56.747 45
STRIP LeftWall_917 10 10 6.8 0.4 0 60.186 45
STRIP LeftWall_917 10 10 7.2 0.4 0 63.625 45
STRIP LeftWall_917 10 10 7.6 0.4 0 67.064 45
STRIP LeftWall_917 10 10 8 0.4 0 70.504 45
STRIP LeftWall_917 10 10 8.4 0.4 0 73.943 45
STRIP LeftWall_917 10 10 8.8 0.4 0 77.382 45
STRIP LeftWall_917 10 10 9.2 0.4 0 80.821 45
STRIP LeftWall_917 10 10 9.6 0.4 0 84.26 45
STRIP LeftWall_917 10 10 10 0.4 0 87.7 45
STRIP LeftWall_917 10 10 10.4 0.4 0 91.139 45
STRIP LeftWall_917 10 10 10.8 0.4 0 94.578 45
STRIP LeftWall_917 10 10 11.2 0.4 0 98.017 45
STRIP LeftWall_917 10 10 11.6 0.4 0 101.46 45
STRIP LeftWall_917 10 10 12 0.4 0 104.9 45
STRIP LeftWall_917 10 10 12.4 0.4 0 108.33 45
STRIP LeftWall_917 10 10 12.8 0.4 0 111.77 45
STRIP LeftWall_917 10 10 13.2 0.4 0 115.21 45
STRIP LeftWall_917 10 10 13.6 0.4 0 118.65 45
STRIP LeftWall_917 10 10 14 0.4 0 122.09 45
STRIP LeftWall_917 10 10 14.4 0.4 0 125.53 45
STRIP LeftWall_917 10 10 14.8 0.4 0 128.97 45
STRIP LeftWall_917 10 10 15.2 0.4 0 132.41 45
STRIP LeftWall_917 10 10 15.6 0.4 0 135.85 45
STRIP LeftWall_917 10 10 16 0.4 0 139.29 45
STRIP LeftWall_917 10 10 16.4 0.4 0 142.73 45
STRIP LeftWall_917 10 10 16.8 0.4 0 146.17 45
STRIP LeftWall_917 10 10 17.2 0.4 0 149.61 45
STRIP LeftWall_917 10 10 17.6 0.4 0 153.04 45
STRIP LeftWall_917 10 10 18 0.4 0 156.48 45
STRIP LeftWall_917 10 10 18.4 0.4 0 159.92 45
STRIP LeftWall_917 10 10 18.8 0.4 0 163.36 45
STRIP LeftWall_917 10 10 19.2 0.4 0 166.8 45
STRIP LeftWall_917 10 10 19.6 0.4 0 170.24 45
STRIP LeftWall_917 10 10 20 0.4 0 173.68 45
STRIP LeftWall_917 10 10 20.4 0.4 0 177.12 45
STRIP LeftWall_917 10 10 20.8 0.4 0 180.56 45
STRIP LeftWall_917 10 10 21.2 0.4 0 184 45
STRIP LeftWall_917 10 10 21.6 0.4 0 187.44 45
STRIP LeftWall_917 10 10 22 0.4 0 190.88 45
STRIP LeftWall_917 10 10 22.4 0.4 0 194.31 45
STRIP LeftWall_917 10 10 22.8 0.4 0 197.75 45
STRIP LeftWall_917 10 10 23.2 0.4 0 201.19 45
STRIP LeftWall_917 10 10 23.6 0.4 0 204.63 45
STRIP LeftWall_917 10 10 24 0.4 0 208.07 45
STRIP LeftWall_917 10 10 24.4 0.4 0 211.51 45
STRIP LeftWall_917 10 10 24.8 0.4 0 214.95 45
STRIP LeftWall_917 10 10 25.2 0.4 0 218.39 45
STRIP LeftWall_917 10 10 25.6 0.4 0 221.83 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	10	10	26	0.4	0	225.27	45
STRIP LeftWall_917	10	10	26.4	0.4	0	228.71	45
STRIP LeftWall_917	10	10	26.8	0.4	0	232.15	45
STRIP LeftWall_917	10	10	27.2	0.4	0	235.59	45
STRIP LeftWall_917	10	10	27.6	0.4	0	239.02	45
STRIP LeftWall_917	10	10	28	0.4	0	242.46	45
STRIP LeftWall_917	10	10	28.4	0.4	0	245.9	45
STRIP LeftWall_917	10	10	28.8	0.4	0	249.34	45
STRIP LeftWall_917	10	10	29.2	0.4	0	252.78	45
STRIP LeftWall_917	10	10	29.6	0.4	0	256.22	45
STRIP LeftWall_917	11	11	0	0.4	0	1.7196	45
STRIP LeftWall_917	11	11	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	11	11	0.8	0.4	0	8.598	45
STRIP LeftWall_917	11	11	1.2	0.4	0	12.037	45
STRIP LeftWall_917	11	11	1.6	0.4	0	15.476	45
STRIP LeftWall_917	11	11	2	0.4	0	18.916	45
STRIP LeftWall_917	11	11	2.4	0.4	0	22.355	45
STRIP LeftWall_917	11	11	2.8	0.4	0	25.794	45
STRIP LeftWall_917	11	11	3.2	0.4	0	29.233	45
STRIP LeftWall_917	11	11	3.6	0.4	0	32.672	45
STRIP LeftWall_917	11	11	4	0.4	0	36.112	45
STRIP LeftWall_917	11	11	4.4	0.4	0	39.551	45
STRIP LeftWall_917	11	11	4.8	0.4	0	42.99	45
STRIP LeftWall_917	11	11	5.2	0.4	0	46.429	45
STRIP LeftWall_917	11	11	5.6	0.4	0	49.868	45
STRIP LeftWall_917	11	11	6	0.4	0	53.308	45
STRIP LeftWall_917	11	11	6.4	0.4	0	56.747	45
STRIP LeftWall_917	11	11	6.8	0.4	0	60.186	45
STRIP LeftWall_917	11	11	7.2	0.4	0	63.625	45
STRIP LeftWall_917	11	11	7.6	0.4	0	67.064	45
STRIP LeftWall_917	11	11	8	0.4	0	70.504	45
STRIP LeftWall_917	11	11	8.4	0.4	0	73.943	45
STRIP LeftWall_917	11	11	8.8	0.4	0	77.382	45
STRIP LeftWall_917	11	11	9.2	0.4	0	80.821	45
STRIP LeftWall_917	11	11	9.6	0.4	0	84.26	45
STRIP LeftWall_917	11	11	10	0.4	0	87.7	45
STRIP LeftWall_917	11	11	10.4	0.4	0	91.139	45
STRIP LeftWall_917	11	11	10.8	0.4	0	94.578	45
STRIP LeftWall_917	11	11	11.2	0.4	0	98.017	45
STRIP LeftWall_917	11	11	11.6	0.4	0	101.46	45
STRIP LeftWall_917	11	11	12	0.4	0	104.9	45
STRIP LeftWall_917	11	11	12.4	0.4	0	108.33	45
STRIP LeftWall_917	11	11	12.8	0.4	0	111.77	45
STRIP LeftWall_917	11	11	13.2	0.4	0	115.21	45
STRIP LeftWall_917	11	11	13.6	0.4	0	118.65	45
STRIP LeftWall_917	11	11	14	0.4	0	122.09	45
STRIP LeftWall_917	11	11	14.4	0.4	0	125.53	45
STRIP LeftWall_917	11	11	14.8	0.4	0	128.97	45
STRIP LeftWall_917	11	11	15.2	0.4	0	132.41	45
STRIP LeftWall_917	11	11	15.6	0.4	0	135.85	45
STRIP LeftWall_917	11	11	16	0.4	0	139.29	45
STRIP LeftWall_917	11	11	16.4	0.4	0	142.73	45
STRIP LeftWall_917	11	11	16.8	0.4	0	146.17	45
STRIP LeftWall_917	11	11	17.2	0.4	0	149.61	45
STRIP LeftWall_917	11	11	17.6	0.4	0	153.04	45
STRIP LeftWall_917	11	11	18	0.4	0	156.48	45
STRIP LeftWall_917	11	11	18.4	0.4	0	159.92	45
STRIP LeftWall_917	11	11	18.8	0.4	0	163.36	45
STRIP LeftWall_917	11	11	19.2	0.4	0	166.8	45
STRIP LeftWall_917	11	11	19.6	0.4	0	170.24	45
STRIP LeftWall_917	11	11	20	0.4	0	173.68	45
STRIP LeftWall_917	11	11	20.4	0.4	0	177.12	45
STRIP LeftWall_917	11	11	20.8	0.4	0	180.56	45
STRIP LeftWall_917	11	11	21.2	0.4	0	184	45
STRIP LeftWall_917	11	11	21.6	0.4	0	187.44	45
STRIP LeftWall_917	11	11	22	0.4	0	190.88	45
STRIP LeftWall_917	11	11	22.4	0.4	0	194.31	45
STRIP LeftWall_917	11	11	22.8	0.4	0	197.75	45
STRIP LeftWall_917	11	11	23.2	0.4	0	201.19	45
STRIP LeftWall_917	11	11	23.6	0.4	0	204.63	45
STRIP LeftWall_917	11	11	24	0.4	0	208.07	45
STRIP LeftWall_917	11	11	24.4	0.4	0	211.51	45
STRIP LeftWall_917	11	11	24.8	0.4	0	214.95	45
STRIP LeftWall_917	11	11	25.2	0.4	0	218.39	45
STRIP LeftWall_917	11	11	25.6	0.4	0	221.83	45
STRIP LeftWall_917	11	11	26	0.4	0	225.27	45
STRIP LeftWall_917	11	11	26.4	0.4	0	228.71	45
STRIP LeftWall_917	11	11	26.8	0.4	0	232.15	45
STRIP LeftWall_917	11	11	27.2	0.4	0	235.59	45
STRIP LeftWall_917	11	11	27.6	0.4	0	239.02	45
STRIP LeftWall_917	11	11	28	0.4	0	242.46	45
STRIP LeftWall_917	11	11	28.4	0.4	0	245.9	45
STRIP LeftWall_917	11	11	28.8	0.4	0	249.34	45
STRIP LeftWall_917	11	11	29.2	0.4	0	252.78	45
STRIP LeftWall_917	11	11	29.6	0.4	0	256.22	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 12 12 0 0.4 0 1.7196 45
STRIP LeftWall_917 12 12 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 12 12 0.8 0.4 0 8.598 45
STRIP LeftWall_917 12 12 1.2 0.4 0 12.037 45
STRIP LeftWall_917 12 12 1.6 0.4 0 15.476 45
STRIP LeftWall_917 12 12 2 0.4 0 18.916 45
STRIP LeftWall_917 12 12 2.4 0.4 0 22.355 45
STRIP LeftWall_917 12 12 2.8 0.4 0 25.794 45
STRIP LeftWall_917 12 12 3.2 0.4 0 29.233 45
STRIP LeftWall_917 12 12 3.6 0.4 0 32.672 45
STRIP LeftWall_917 12 12 4 0.4 0 36.112 45
STRIP LeftWall_917 12 12 4.4 0.4 0 39.551 45
STRIP LeftWall_917 12 12 4.8 0.4 0 42.99 45
STRIP LeftWall_917 12 12 5.2 0.4 0 46.429 45
STRIP LeftWall_917 12 12 5.6 0.4 0 49.868 45
STRIP LeftWall_917 12 12 6 0.4 0 53.308 45
STRIP LeftWall_917 12 12 6.4 0.4 0 56.747 45
STRIP LeftWall_917 12 12 6.8 0.4 0 60.186 45
STRIP LeftWall_917 12 12 7.2 0.4 0 63.625 45
STRIP LeftWall_917 12 12 7.6 0.4 0 67.064 45
STRIP LeftWall_917 12 12 8 0.4 0 70.504 45
STRIP LeftWall_917 12 12 8.4 0.4 0 73.943 45
STRIP LeftWall_917 12 12 8.8 0.4 0 77.382 45
STRIP LeftWall_917 12 12 9.2 0.4 0 80.821 45
STRIP LeftWall_917 12 12 9.6 0.4 0 84.26 45
STRIP LeftWall_917 12 12 10 0.4 0 87.7 45
STRIP LeftWall_917 12 12 10.4 0.4 0 91.139 45
STRIP LeftWall_917 12 12 10.8 0.4 0 94.578 45
STRIP LeftWall_917 12 12 11.2 0.4 0 98.017 45
STRIP LeftWall_917 12 12 11.6 0.4 0 101.46 45
STRIP LeftWall_917 12 12 12 0.4 0 104.9 45
STRIP LeftWall_917 12 12 12.4 0.4 0 108.33 45
STRIP LeftWall_917 12 12 12.8 0.4 0 111.77 45
STRIP LeftWall_917 12 12 13.2 0.4 0 115.21 45
STRIP LeftWall_917 12 12 13.6 0.4 0 118.65 45
STRIP LeftWall_917 12 12 14 0.4 0 122.09 45
STRIP LeftWall_917 12 12 14.4 0.4 0 125.53 45
STRIP LeftWall_917 12 12 14.8 0.4 0 128.97 45
STRIP LeftWall_917 12 12 15.2 0.4 0 132.41 45
STRIP LeftWall_917 12 12 15.6 0.4 0 135.85 45
STRIP LeftWall_917 12 12 16 0.4 0 139.29 45
STRIP LeftWall_917 12 12 16.4 0.4 0 142.73 45
STRIP LeftWall_917 12 12 16.8 0.4 0 146.17 45
STRIP LeftWall_917 12 12 17.2 0.4 0 149.61 45
STRIP LeftWall_917 12 12 17.6 0.4 0 153.04 45
STRIP LeftWall_917 12 12 18 0.4 0 156.48 45
STRIP LeftWall_917 12 12 18.4 0.4 0 159.92 45
STRIP LeftWall_917 12 12 18.8 0.4 0 163.36 45
STRIP LeftWall_917 12 12 19.2 0.4 0 166.8 45
STRIP LeftWall_917 12 12 19.6 0.4 0 170.24 45
STRIP LeftWall_917 12 12 20 0.4 0 173.68 45
STRIP LeftWall_917 12 12 20.4 0.4 0 177.12 45
STRIP LeftWall_917 12 12 20.8 0.4 0 180.56 45
STRIP LeftWall_917 12 12 21.2 0.4 0 184 45
STRIP LeftWall_917 12 12 21.6 0.4 0 187.44 45
STRIP LeftWall_917 12 12 22 0.4 0 190.88 45
STRIP LeftWall_917 12 12 22.4 0.4 0 194.31 45
STRIP LeftWall_917 12 12 22.8 0.4 0 197.75 45
STRIP LeftWall_917 12 12 23.2 0.4 0 201.19 45
STRIP LeftWall_917 12 12 23.6 0.4 0 204.63 45
STRIP LeftWall_917 12 12 24 0.4 0 208.07 45
STRIP LeftWall_917 12 12 24.4 0.4 0 211.51 45
STRIP LeftWall_917 12 12 24.8 0.4 0 214.95 45
STRIP LeftWall_917 12 12 25.2 0.4 0 218.39 45
STRIP LeftWall_917 12 12 25.6 0.4 0 221.83 45
STRIP LeftWall_917 12 12 26 0.4 0 225.27 45
STRIP LeftWall_917 12 12 26.4 0.4 0 228.71 45
STRIP LeftWall_917 12 12 26.8 0.4 0 232.15 45
STRIP LeftWall_917 12 12 27.2 0.4 0 235.59 45
STRIP LeftWall_917 12 12 27.6 0.4 0 239.02 45
STRIP LeftWall_917 12 12 28 0.4 0 242.46 45
STRIP LeftWall_917 12 12 28.4 0.4 0 245.9 45
STRIP LeftWall_917 12 12 28.8 0.4 0 249.34 45
STRIP LeftWall_917 12 12 29.2 0.4 0 252.78 45
STRIP LeftWall_917 12 12 29.6 0.4 0 256.22 45
STRIP LeftWall_917 13 13 0 0.4 0 1.7196 45
STRIP LeftWall_917 13 13 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 13 13 0.8 0.4 0 8.598 45
STRIP LeftWall_917 13 13 1.2 0.4 0 12.037 45
STRIP LeftWall_917 13 13 1.6 0.4 0 15.476 45
STRIP LeftWall_917 13 13 2 0.4 0 18.916 45
STRIP LeftWall_917 13 13 2.4 0.4 0 22.355 45
STRIP LeftWall_917 13 13 2.8 0.4 0 25.794 45
STRIP LeftWall_917 13 13 3.2 0.4 0 29.233 45
STRIP LeftWall_917 13 13 3.6 0.4 0 32.672 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 13 13 4 0.4 0 36.112 45
STRIP LeftWall_917 13 13 4.4 0.4 0 39.551 45
STRIP LeftWall_917 13 13 4.8 0.4 0 42.99 45
STRIP LeftWall_917 13 13 5.2 0.4 0 46.429 45
STRIP LeftWall_917 13 13 5.6 0.4 0 49.868 45
STRIP LeftWall_917 13 13 6 0.4 0 53.308 45
STRIP LeftWall_917 13 13 6.4 0.4 0 56.747 45
STRIP LeftWall_917 13 13 6.8 0.4 0 60.186 45
STRIP LeftWall_917 13 13 7.2 0.4 0 63.625 45
STRIP LeftWall_917 13 13 7.6 0.4 0 67.064 45
STRIP LeftWall_917 13 13 8 0.4 0 70.504 45
STRIP LeftWall_917 13 13 8.4 0.4 0 73.943 45
STRIP LeftWall_917 13 13 8.8 0.4 0 77.382 45
STRIP LeftWall_917 13 13 9.2 0.4 0 80.821 45
STRIP LeftWall_917 13 13 9.6 0.4 0 84.26 45
STRIP LeftWall_917 13 13 10 0.4 0 87.7 45
STRIP LeftWall_917 13 13 10.4 0.4 0 91.139 45
STRIP LeftWall_917 13 13 10.8 0.4 0 94.578 45
STRIP LeftWall_917 13 13 11.2 0.4 0 98.017 45
STRIP LeftWall_917 13 13 11.6 0.4 0 101.46 45
STRIP LeftWall_917 13 13 12 0.4 0 104.9 45
STRIP LeftWall_917 13 13 12.4 0.4 0 108.33 45
STRIP LeftWall_917 13 13 12.8 0.4 0 111.77 45
STRIP LeftWall_917 13 13 13.2 0.4 0 115.21 45
STRIP LeftWall_917 13 13 13.6 0.4 0 118.65 45
STRIP LeftWall_917 13 13 14 0.4 0 122.09 45
STRIP LeftWall_917 13 13 14.4 0.4 0 125.53 45
STRIP LeftWall_917 13 13 14.8 0.4 0 128.97 45
STRIP LeftWall_917 13 13 15.2 0.4 0 132.41 45
STRIP LeftWall_917 13 13 15.6 0.4 0 135.85 45
STRIP LeftWall_917 13 13 16 0.4 0 139.29 45
STRIP LeftWall_917 13 13 16.4 0.4 0 142.73 45
STRIP LeftWall_917 13 13 16.8 0.4 0 146.17 45
STRIP LeftWall_917 13 13 17.2 0.4 0 149.61 45
STRIP LeftWall_917 13 13 17.6 0.4 0 153.04 45
STRIP LeftWall_917 13 13 18 0.4 0 156.48 45
STRIP LeftWall_917 13 13 18.4 0.4 0 159.92 45
STRIP LeftWall_917 13 13 18.8 0.4 0 163.36 45
STRIP LeftWall_917 13 13 19.2 0.4 0 166.8 45
STRIP LeftWall_917 13 13 19.6 0.4 0 170.24 45
STRIP LeftWall_917 13 13 20 0.4 0 173.68 45
STRIP LeftWall_917 13 13 20.4 0.4 0 177.12 45
STRIP LeftWall_917 13 13 20.8 0.4 0 180.56 45
STRIP LeftWall_917 13 13 21.2 0.4 0 184 45
STRIP LeftWall_917 13 13 21.6 0.4 0 187.44 45
STRIP LeftWall_917 13 13 22 0.4 0 190.88 45
STRIP LeftWall_917 13 13 22.4 0.4 0 194.31 45
STRIP LeftWall_917 13 13 22.8 0.4 0 197.75 45
STRIP LeftWall_917 13 13 23.2 0.4 0 201.19 45
STRIP LeftWall_917 13 13 23.6 0.4 0 204.63 45
STRIP LeftWall_917 13 13 24 0.4 0 208.07 45
STRIP LeftWall_917 13 13 24.4 0.4 0 211.51 45
STRIP LeftWall_917 13 13 24.8 0.4 0 214.95 45
STRIP LeftWall_917 13 13 25.2 0.4 0 218.39 45
STRIP LeftWall_917 13 13 25.6 0.4 0 221.83 45
STRIP LeftWall_917 13 13 26 0.4 0 225.27 45
STRIP LeftWall_917 13 13 26.4 0.4 0 228.71 45
STRIP LeftWall_917 13 13 26.8 0.4 0 232.15 45
STRIP LeftWall_917 13 13 27.2 0.4 0 235.59 45
STRIP LeftWall_917 13 13 27.6 0.4 0 239.02 45
STRIP LeftWall_917 13 13 28 0.4 0 242.46 45
STRIP LeftWall_917 13 13 28.4 0.4 0 245.9 45
STRIP LeftWall_917 13 13 28.8 0.4 0 249.34 45
STRIP LeftWall_917 13 13 29.2 0.4 0 252.78 45
STRIP LeftWall_917 13 13 29.6 0.4 0 256.22 45
STRIP LeftWall_917 14 14 0 0.4 0 1.7196 45
STRIP LeftWall_917 14 14 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 14 14 0.8 0.4 0 8.598 45
STRIP LeftWall_917 14 14 1.2 0.4 0 12.037 45
STRIP LeftWall_917 14 14 1.6 0.4 0 15.476 45
STRIP LeftWall_917 14 14 2 0.4 0 18.916 45
STRIP LeftWall_917 14 14 2.4 0.4 0 22.355 45
STRIP LeftWall_917 14 14 2.8 0.4 0 25.794 45
STRIP LeftWall_917 14 14 3.2 0.4 0 29.233 45
STRIP LeftWall_917 14 14 3.6 0.4 0 32.672 45
STRIP LeftWall_917 14 14 4 0.4 0 36.112 45
STRIP LeftWall_917 14 14 4.4 0.4 0 39.551 45
STRIP LeftWall_917 14 14 4.8 0.4 0 42.99 45
STRIP LeftWall_917 14 14 5.2 0.4 0 46.429 45
STRIP LeftWall_917 14 14 5.6 0.4 0 49.868 45
STRIP LeftWall_917 14 14 6 0.4 0 53.308 45
STRIP LeftWall_917 14 14 6.4 0.4 0 56.747 45
STRIP LeftWall_917 14 14 6.8 0.4 0 60.186 45
STRIP LeftWall_917 14 14 7.2 0.4 0 63.625 45
STRIP LeftWall_917 14 14 7.6 0.4 0 67.064 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 14 14 8 0.4 0 70.504 45
STRIP LeftWall_917 14 14 8.4 0.4 0 73.943 45
STRIP LeftWall_917 14 14 8.8 0.4 0 77.382 45
STRIP LeftWall_917 14 14 9.2 0.4 0 80.821 45
STRIP LeftWall_917 14 14 9.6 0.4 0 84.26 45
STRIP LeftWall_917 14 14 10 0.4 0 87.7 45
STRIP LeftWall_917 14 14 10.4 0.4 0 91.139 45
STRIP LeftWall_917 14 14 10.8 0.4 0 94.578 45
STRIP LeftWall_917 14 14 11.2 0.4 0 98.017 45
STRIP LeftWall_917 14 14 11.6 0.4 0 101.46 45
STRIP LeftWall_917 14 14 12 0.4 0 104.9 45
STRIP LeftWall_917 14 14 12.4 0.4 0 108.33 45
STRIP LeftWall_917 14 14 12.8 0.4 0 111.77 45
STRIP LeftWall_917 14 14 13.2 0.4 0 115.21 45
STRIP LeftWall_917 14 14 13.6 0.4 0 118.65 45
STRIP LeftWall_917 14 14 14 0.4 0 122.09 45
STRIP LeftWall_917 14 14 14.4 0.4 0 125.53 45
STRIP LeftWall_917 14 14 14.8 0.4 0 128.97 45
STRIP LeftWall_917 14 14 15.2 0.4 0 132.41 45
STRIP LeftWall_917 14 14 15.6 0.4 0 135.85 45
STRIP LeftWall_917 14 14 16 0.4 0 139.29 45
STRIP LeftWall_917 14 14 16.4 0.4 0 142.73 45
STRIP LeftWall_917 14 14 16.8 0.4 0 146.17 45
STRIP LeftWall_917 14 14 17.2 0.4 0 149.61 45
STRIP LeftWall_917 14 14 17.6 0.4 0 153.04 45
STRIP LeftWall_917 14 14 18 0.4 0 156.48 45
STRIP LeftWall_917 14 14 18.4 0.4 0 159.92 45
STRIP LeftWall_917 14 14 18.8 0.4 0 163.36 45
STRIP LeftWall_917 14 14 19.2 0.4 0 166.8 45
STRIP LeftWall_917 14 14 19.6 0.4 0 170.24 45
STRIP LeftWall_917 14 14 20 0.4 0 173.68 45
STRIP LeftWall_917 14 14 20.4 0.4 0 177.12 45
STRIP LeftWall_917 14 14 20.8 0.4 0 180.56 45
STRIP LeftWall_917 14 14 21.2 0.4 0 184 45
STRIP LeftWall_917 14 14 21.6 0.4 0 187.44 45
STRIP LeftWall_917 14 14 22 0.4 0 190.88 45
STRIP LeftWall_917 14 14 22.4 0.4 0 194.31 45
STRIP LeftWall_917 14 14 22.8 0.4 0 197.75 45
STRIP LeftWall_917 14 14 23.2 0.4 0 201.19 45
STRIP LeftWall_917 14 14 23.6 0.4 0 204.63 45
STRIP LeftWall_917 14 14 24 0.4 0 208.07 45
STRIP LeftWall_917 14 14 24.4 0.4 0 211.51 45
STRIP LeftWall_917 14 14 24.8 0.4 0 214.95 45
STRIP LeftWall_917 14 14 25.2 0.4 0 218.39 45
STRIP LeftWall_917 14 14 25.6 0.4 0 221.83 45
STRIP LeftWall_917 14 14 26 0.4 0 225.27 45
STRIP LeftWall_917 14 14 26.4 0.4 0 228.71 45
STRIP LeftWall_917 14 14 26.8 0.4 0 232.15 45
STRIP LeftWall_917 14 14 27.2 0.4 0 235.59 45
STRIP LeftWall_917 14 14 27.6 0.4 0 239.02 45
STRIP LeftWall_917 14 14 28 0.4 0 242.46 45
STRIP LeftWall_917 14 14 28.4 0.4 0 245.9 45
STRIP LeftWall_917 14 14 28.8 0.4 0 249.34 45
STRIP LeftWall_917 14 14 29.2 0.4 0 252.78 45
STRIP LeftWall_917 14 14 29.6 0.4 0 256.22 45

* 7: Defining Steps

STEP Stepn.0Condizioniiniziali_924
CHANGE Coltredestritica_2_905_L_0 U-FRICT=30 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-FRICT=30 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KA=0.333 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KP=4.288 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KA=0.333 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KP=4.288 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KP=5.879 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KP=5.879 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-COHE=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-ADHES=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-COHE=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-ADHES=0 LeftWall_917
SETWALL LeftWall_917
GEOM 0 0
SURCHARGE 0 0 0 0
WATER -30 0 -18 0 0
ADD LeftWallElement_1092
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:

Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STEP Stepn.1Fasediscavo1-Fase1_935
SETWALL LeftWall_917
GEOM 0 -3.8
SURCHARGE 0 0 0 -3.5
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.2Fasediscavo1-Fase2_953
SETWALL LeftWall_917
GEOM 0 -3.8
SURCHARGE 0 0 0 -3.5
WATER -30 0 -18 0 0
ADD Tirantiesistenti+591.00_965
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.3Fasediscavo2-Fase1_973
SETWALL LeftWall_917
GEOM 0 -7.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.4Fasediscavo2-Fase2_991
SETWALL LeftWall_917
GEOM 0 -7.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
ADD Tirantiesistenti+587.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.5Fasediscavo3-Fase1_7442
SETWALL LeftWall_917
GEOM 0 -10.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.6Fasediscavo3-Fase2_8893
SETWALL LeftWall_917
GEOM 0 -10.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
ADD Tirantiesistenti+584.00_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.7Fasefinalediscavoes_1011
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.8Primotirantenuovo_1029
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
ADD TirantinuoviT1_3735
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.9Secondotirantenuovo_1049
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
ADD TirantinuoviT2_10346
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.10Terzotirantenuovo_10348
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
ADD TirantinuoviT3_10599
VARIABLE LeftWallElement_1092 0.5

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ENDSTEP

```
STEP Stage11Rilasciotirantiesis_3737
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
REMOVE Tirantiesistenti+591.00_965 Tirantiesistenti+587.00_1003
REMOVE Tirantiesistenti+584.00_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP
```

```
STEP Stage12Scavodiprogetto_98268
SETWALL LeftWall_917
GEOM 0 -14.5
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP
```

```
STEP Stage13Sisma_100691
SETWALL LeftWall_917
GEOM 0 -14.5
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
** SUBINCREMENT LOGIC - active since June 2019
SUBINCREMENTS 2
ENDSTEP
```

11.3 Design Assumption : NTC2018: A1+M1+R1 (R3 per tiranti) - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: NTC2018: A1+M1+R1 (R3 per tiranti)
* Time:mercoledì 14 dicembre 2022 10:36:05
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_917 0 -18 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_917 -18 0 1 0
SOIL 0_R LeftWall_917 -18 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Coltredetrifica_2_905_L_0)
*
LDATA Coltredetrifica_2_905_L_0 30 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 18 10 10
PERMEABILITY 1E-05
RESISTANCE 0 30 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 30000 48000
ENDL
*
* Soil Profile (Marnaarenacea_8_906_L_0)
*
LDATA Marnaarenacea_8_906_L_0 -3 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 21 13 10
PERMEABILITY 0.0001
RESISTANCE 100 35 0 0 0
TZDATA LINEAR 20000 0 30 0.5 0
KSCALE 0 0
YOUNG 1E+06 1.6E+06
ENDL

* 5: Defining structural materials
* Rebar material: 54 Name=Strands 270 ksi E=200100000 kPa
MATERIAL Strands270ksi_54 2.001E+08
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

* Concrete material: 1093 Name=C20/25 E=29962000 kPa
MATERIAL C2025_1093 2.9962E+07
* Steel material: 43 Name=Fe510 E=206000200 kPa
MATERIAL Fe510_43 2.06E+08

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later
BEAM LeftWallElement_1092 LeftWall_917 -18 0 Fe510_43 0.080792 0.018495 4.3946E-05 1.4241 00 00 0

* 6.2: Supports
WIRE Tirantiesistenti+591.00_965 LeftWall_917 -3.3 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+587.00_1003 LeftWall_917 -7.3 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+584.00_3643 LeftWall_917 -10.3 Strands270ksi_54 1.9501E-05 62.5 15 0 0
WIRE TirantinuoviT1_3735 LeftWall_917 -1.8 Strands270ksi_54 1.611E-05 62.5 15 0 0
WIRE TirantinuoviT2_10346 LeftWall_917 -5.3 Strands270ksi_54 1.611E-05 62.5 15 0 0
WIRE TirantinuoviT3_10599 LeftWall_917 -12.3 Strands270ksi_54 1.9501E-05 62.5 15 0 0

* 6.3: Strips

* (slope contribution)
STRIP LeftWall_917 1 1 0 0.4 0 1.7196 45
STRIP LeftWall_917 1 1 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 1 1 0.8 0.4 0 8.598 45
STRIP LeftWall_917 1 1 1.2 0.4 0 12.037 45
STRIP LeftWall_917 1 1 1.6 0.4 0 15.476 45
STRIP LeftWall_917 1 1 2 0.4 0 18.916 45
STRIP LeftWall_917 1 1 2.4 0.4 0 22.355 45
STRIP LeftWall_917 1 1 2.8 0.4 0 25.794 45
STRIP LeftWall_917 1 1 3.2 0.4 0 29.233 45
STRIP LeftWall_917 1 1 3.6 0.4 0 32.672 45
STRIP LeftWall_917 1 1 4 0.4 0 36.112 45
STRIP LeftWall_917 1 1 4.4 0.4 0 39.551 45
STRIP LeftWall_917 1 1 4.8 0.4 0 42.99 45
STRIP LeftWall_917 1 1 5.2 0.4 0 46.429 45
STRIP LeftWall_917 1 1 5.6 0.4 0 49.868 45
STRIP LeftWall_917 1 1 6 0.4 0 53.308 45
STRIP LeftWall_917 1 1 6.4 0.4 0 56.747 45
STRIP LeftWall_917 1 1 6.8 0.4 0 60.186 45
STRIP LeftWall_917 1 1 7.2 0.4 0 63.625 45
STRIP LeftWall_917 1 1 7.6 0.4 0 67.064 45
STRIP LeftWall_917 1 1 8 0.4 0 70.504 45
STRIP LeftWall_917 1 1 8.4 0.4 0 73.943 45
STRIP LeftWall_917 1 1 8.8 0.4 0 77.382 45
STRIP LeftWall_917 1 1 9.2 0.4 0 80.821 45
STRIP LeftWall_917 1 1 9.6 0.4 0 84.26 45
STRIP LeftWall_917 1 1 10 0.4 0 87.7 45
STRIP LeftWall_917 1 1 10.4 0.4 0 91.139 45
STRIP LeftWall_917 1 1 10.8 0.4 0 94.578 45
STRIP LeftWall_917 1 1 11.2 0.4 0 98.017 45
STRIP LeftWall_917 1 1 11.6 0.4 0 101.46 45
STRIP LeftWall_917 1 1 12 0.4 0 104.9 45
STRIP LeftWall_917 1 1 12.4 0.4 0 108.33 45
STRIP LeftWall_917 1 1 12.8 0.4 0 111.77 45
STRIP LeftWall_917 1 1 13.2 0.4 0 115.21 45
STRIP LeftWall_917 1 1 13.6 0.4 0 118.65 45
STRIP LeftWall_917 1 1 14 0.4 0 122.09 45
STRIP LeftWall_917 1 1 14.4 0.4 0 125.53 45
STRIP LeftWall_917 1 1 14.8 0.4 0 128.97 45
STRIP LeftWall_917 1 1 15.2 0.4 0 132.41 45
STRIP LeftWall_917 1 1 15.6 0.4 0 135.85 45
STRIP LeftWall_917 1 1 16 0.4 0 139.29 45
STRIP LeftWall_917 1 1 16.4 0.4 0 142.73 45
STRIP LeftWall_917 1 1 16.8 0.4 0 146.17 45
STRIP LeftWall_917 1 1 17.2 0.4 0 149.61 45
STRIP LeftWall_917 1 1 17.6 0.4 0 153.04 45
STRIP LeftWall_917 1 1 18 0.4 0 156.48 45
STRIP LeftWall_917 1 1 18.4 0.4 0 159.92 45
STRIP LeftWall_917 1 1 18.8 0.4 0 163.36 45
STRIP LeftWall_917 1 1 19.2 0.4 0 166.8 45
STRIP LeftWall_917 1 1 19.6 0.4 0 170.24 45
STRIP LeftWall_917 1 1 20 0.4 0 173.68 45
STRIP LeftWall_917 1 1 20.4 0.4 0 177.12 45
STRIP LeftWall_917 1 1 20.8 0.4 0 180.56 45
STRIP LeftWall_917 1 1 21.2 0.4 0 184 45
STRIP LeftWall_917 1 1 21.6 0.4 0 187.44 45
STRIP LeftWall_917 1 1 22 0.4 0 190.88 45
STRIP LeftWall_917 1 1 22.4 0.4 0 194.31 45
STRIP LeftWall_917 1 1 22.8 0.4 0 197.75 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 1 1 23.2 0.4 0 201.19 45
STRIP LeftWall_917 1 1 23.6 0.4 0 204.63 45
STRIP LeftWall_917 1 1 24 0.4 0 208.07 45
STRIP LeftWall_917 1 1 24.4 0.4 0 211.51 45
STRIP LeftWall_917 1 1 24.8 0.4 0 214.95 45
STRIP LeftWall_917 1 1 25.2 0.4 0 218.39 45
STRIP LeftWall_917 1 1 25.6 0.4 0 221.83 45
STRIP LeftWall_917 1 1 26 0.4 0 225.27 45
STRIP LeftWall_917 1 1 26.4 0.4 0 228.71 45
STRIP LeftWall_917 1 1 26.8 0.4 0 232.15 45
STRIP LeftWall_917 1 1 27.2 0.4 0 235.59 45
STRIP LeftWall_917 1 1 27.6 0.4 0 239.02 45
STRIP LeftWall_917 1 1 28 0.4 0 242.46 45
STRIP LeftWall_917 1 1 28.4 0.4 0 245.9 45
STRIP LeftWall_917 1 1 28.8 0.4 0 249.34 45
STRIP LeftWall_917 1 1 29.2 0.4 0 252.78 45
STRIP LeftWall_917 1 1 29.6 0.4 0 256.22 45
STRIP LeftWall_917 2 2 0 0.4 0 1.7196 45
STRIP LeftWall_917 2 2 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 2 2 0.8 0.4 0 8.598 45
STRIP LeftWall_917 2 2 1.2 0.4 0 12.037 45
STRIP LeftWall_917 2 2 1.6 0.4 0 15.476 45
STRIP LeftWall_917 2 2 2 0.4 0 18.916 45
STRIP LeftWall_917 2 2 2.4 0.4 0 22.355 45
STRIP LeftWall_917 2 2 2.8 0.4 0 25.794 45
STRIP LeftWall_917 2 2 3.2 0.4 0 29.233 45
STRIP LeftWall_917 2 2 3.6 0.4 0 32.672 45
STRIP LeftWall_917 2 2 4 0.4 0 36.112 45
STRIP LeftWall_917 2 2 4.4 0.4 0 39.551 45
STRIP LeftWall_917 2 2 4.8 0.4 0 42.99 45
STRIP LeftWall_917 2 2 5.2 0.4 0 46.429 45
STRIP LeftWall_917 2 2 5.6 0.4 0 49.868 45
STRIP LeftWall_917 2 2 6 0.4 0 53.308 45
STRIP LeftWall_917 2 2 6.4 0.4 0 56.747 45
STRIP LeftWall_917 2 2 6.8 0.4 0 60.186 45
STRIP LeftWall_917 2 2 7.2 0.4 0 63.625 45
STRIP LeftWall_917 2 2 7.6 0.4 0 67.064 45
STRIP LeftWall_917 2 2 8 0.4 0 70.504 45
STRIP LeftWall_917 2 2 8.4 0.4 0 73.943 45
STRIP LeftWall_917 2 2 8.8 0.4 0 77.382 45
STRIP LeftWall_917 2 2 9.2 0.4 0 80.821 45
STRIP LeftWall_917 2 2 9.6 0.4 0 84.26 45
STRIP LeftWall_917 2 2 10 0.4 0 87.7 45
STRIP LeftWall_917 2 2 10.4 0.4 0 91.139 45
STRIP LeftWall_917 2 2 10.8 0.4 0 94.578 45
STRIP LeftWall_917 2 2 11.2 0.4 0 98.017 45
STRIP LeftWall_917 2 2 11.6 0.4 0 101.46 45
STRIP LeftWall_917 2 2 12 0.4 0 104.9 45
STRIP LeftWall_917 2 2 12.4 0.4 0 108.33 45
STRIP LeftWall_917 2 2 12.8 0.4 0 111.77 45
STRIP LeftWall_917 2 2 13.2 0.4 0 115.21 45
STRIP LeftWall_917 2 2 13.6 0.4 0 118.65 45
STRIP LeftWall_917 2 2 14 0.4 0 122.09 45
STRIP LeftWall_917 2 2 14.4 0.4 0 125.53 45
STRIP LeftWall_917 2 2 14.8 0.4 0 128.97 45
STRIP LeftWall_917 2 2 15.2 0.4 0 132.41 45
STRIP LeftWall_917 2 2 15.6 0.4 0 135.85 45
STRIP LeftWall_917 2 2 16 0.4 0 139.29 45
STRIP LeftWall_917 2 2 16.4 0.4 0 142.73 45
STRIP LeftWall_917 2 2 16.8 0.4 0 146.17 45
STRIP LeftWall_917 2 2 17.2 0.4 0 149.61 45
STRIP LeftWall_917 2 2 17.6 0.4 0 153.04 45
STRIP LeftWall_917 2 2 18 0.4 0 156.48 45
STRIP LeftWall_917 2 2 18.4 0.4 0 159.92 45
STRIP LeftWall_917 2 2 18.8 0.4 0 163.36 45
STRIP LeftWall_917 2 2 19.2 0.4 0 166.8 45
STRIP LeftWall_917 2 2 19.6 0.4 0 170.24 45
STRIP LeftWall_917 2 2 20 0.4 0 173.68 45
STRIP LeftWall_917 2 2 20.4 0.4 0 177.12 45
STRIP LeftWall_917 2 2 20.8 0.4 0 180.56 45
STRIP LeftWall_917 2 2 21.2 0.4 0 184 45
STRIP LeftWall_917 2 2 21.6 0.4 0 187.44 45
STRIP LeftWall_917 2 2 22 0.4 0 190.88 45
STRIP LeftWall_917 2 2 22.4 0.4 0 194.31 45
STRIP LeftWall_917 2 2 22.8 0.4 0 197.75 45
STRIP LeftWall_917 2 2 23.2 0.4 0 201.19 45
STRIP LeftWall_917 2 2 23.6 0.4 0 204.63 45
STRIP LeftWall_917 2 2 24 0.4 0 208.07 45
STRIP LeftWall_917 2 2 24.4 0.4 0 211.51 45
STRIP LeftWall_917 2 2 24.8 0.4 0 214.95 45
STRIP LeftWall_917 2 2 25.2 0.4 0 218.39 45
STRIP LeftWall_917 2 2 25.6 0.4 0 221.83 45
STRIP LeftWall_917 2 2 26 0.4 0 225.27 45
STRIP LeftWall_917 2 2 26.4 0.4 0 228.71 45
STRIP LeftWall_917 2 2 26.8 0.4 0 232.15 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917	2	2	27.2	0.4	0	235.59	45
STRIP LeftWall_917	2	2	27.6	0.4	0	239.02	45
STRIP LeftWall_917	2	2	28	0.4	0	242.46	45
STRIP LeftWall_917	2	2	28.4	0.4	0	245.9	45
STRIP LeftWall_917	2	2	28.8	0.4	0	249.34	45
STRIP LeftWall_917	2	2	29.2	0.4	0	252.78	45
STRIP LeftWall_917	2	2	29.6	0.4	0	256.22	45
STRIP LeftWall_917	3	3	0	0.4	0	1.7196	45
STRIP LeftWall_917	3	3	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	3	3	0.8	0.4	0	8.598	45
STRIP LeftWall_917	3	3	1.2	0.4	0	12.037	45
STRIP LeftWall_917	3	3	1.6	0.4	0	15.476	45
STRIP LeftWall_917	3	3	2	0.4	0	18.916	45
STRIP LeftWall_917	3	3	2.4	0.4	0	22.355	45
STRIP LeftWall_917	3	3	2.8	0.4	0	25.794	45
STRIP LeftWall_917	3	3	3.2	0.4	0	29.233	45
STRIP LeftWall_917	3	3	3.6	0.4	0	32.672	45
STRIP LeftWall_917	3	3	4	0.4	0	36.112	45
STRIP LeftWall_917	3	3	4.4	0.4	0	39.551	45
STRIP LeftWall_917	3	3	4.8	0.4	0	42.99	45
STRIP LeftWall_917	3	3	5.2	0.4	0	46.429	45
STRIP LeftWall_917	3	3	5.6	0.4	0	49.868	45
STRIP LeftWall_917	3	3	6	0.4	0	53.308	45
STRIP LeftWall_917	3	3	6.4	0.4	0	56.747	45
STRIP LeftWall_917	3	3	6.8	0.4	0	60.186	45
STRIP LeftWall_917	3	3	7.2	0.4	0	63.625	45
STRIP LeftWall_917	3	3	7.6	0.4	0	67.064	45
STRIP LeftWall_917	3	3	8	0.4	0	70.504	45
STRIP LeftWall_917	3	3	8.4	0.4	0	73.943	45
STRIP LeftWall_917	3	3	8.8	0.4	0	77.382	45
STRIP LeftWall_917	3	3	9.2	0.4	0	80.821	45
STRIP LeftWall_917	3	3	9.6	0.4	0	84.26	45
STRIP LeftWall_917	3	3	10	0.4	0	87.7	45
STRIP LeftWall_917	3	3	10.4	0.4	0	91.139	45
STRIP LeftWall_917	3	3	10.8	0.4	0	94.578	45
STRIP LeftWall_917	3	3	11.2	0.4	0	98.017	45
STRIP LeftWall_917	3	3	11.6	0.4	0	101.46	45
STRIP LeftWall_917	3	3	12	0.4	0	104.9	45
STRIP LeftWall_917	3	3	12.4	0.4	0	108.33	45
STRIP LeftWall_917	3	3	12.8	0.4	0	111.77	45
STRIP LeftWall_917	3	3	13.2	0.4	0	115.21	45
STRIP LeftWall_917	3	3	13.6	0.4	0	118.65	45
STRIP LeftWall_917	3	3	14	0.4	0	122.09	45
STRIP LeftWall_917	3	3	14.4	0.4	0	125.53	45
STRIP LeftWall_917	3	3	14.8	0.4	0	128.97	45
STRIP LeftWall_917	3	3	15.2	0.4	0	132.41	45
STRIP LeftWall_917	3	3	15.6	0.4	0	135.85	45
STRIP LeftWall_917	3	3	16	0.4	0	139.29	45
STRIP LeftWall_917	3	3	16.4	0.4	0	142.73	45
STRIP LeftWall_917	3	3	16.8	0.4	0	146.17	45
STRIP LeftWall_917	3	3	17.2	0.4	0	149.61	45
STRIP LeftWall_917	3	3	17.6	0.4	0	153.04	45
STRIP LeftWall_917	3	3	18	0.4	0	156.48	45
STRIP LeftWall_917	3	3	18.4	0.4	0	159.92	45
STRIP LeftWall_917	3	3	18.8	0.4	0	163.36	45
STRIP LeftWall_917	3	3	19.2	0.4	0	166.8	45
STRIP LeftWall_917	3	3	19.6	0.4	0	170.24	45
STRIP LeftWall_917	3	3	20	0.4	0	173.68	45
STRIP LeftWall_917	3	3	20.4	0.4	0	177.12	45
STRIP LeftWall_917	3	3	20.8	0.4	0	180.56	45
STRIP LeftWall_917	3	3	21.2	0.4	0	184	45
STRIP LeftWall_917	3	3	21.6	0.4	0	187.44	45
STRIP LeftWall_917	3	3	22	0.4	0	190.88	45
STRIP LeftWall_917	3	3	22.4	0.4	0	194.31	45
STRIP LeftWall_917	3	3	22.8	0.4	0	197.75	45
STRIP LeftWall_917	3	3	23.2	0.4	0	201.19	45
STRIP LeftWall_917	3	3	23.6	0.4	0	204.63	45
STRIP LeftWall_917	3	3	24	0.4	0	208.07	45
STRIP LeftWall_917	3	3	24.4	0.4	0	211.51	45
STRIP LeftWall_917	3	3	24.8	0.4	0	214.95	45
STRIP LeftWall_917	3	3	25.2	0.4	0	218.39	45
STRIP LeftWall_917	3	3	25.6	0.4	0	221.83	45
STRIP LeftWall_917	3	3	26	0.4	0	225.27	45
STRIP LeftWall_917	3	3	26.4	0.4	0	228.71	45
STRIP LeftWall_917	3	3	26.8	0.4	0	232.15	45
STRIP LeftWall_917	3	3	27.2	0.4	0	235.59	45
STRIP LeftWall_917	3	3	27.6	0.4	0	239.02	45
STRIP LeftWall_917	3	3	28	0.4	0	242.46	45
STRIP LeftWall_917	3	3	28.4	0.4	0	245.9	45
STRIP LeftWall_917	3	3	28.8	0.4	0	249.34	45
STRIP LeftWall_917	3	3	29.2	0.4	0	252.78	45
STRIP LeftWall_917	3	3	29.6	0.4	0	256.22	45
STRIP LeftWall_917	4	4	0	0.4	0	1.7196	45
STRIP LeftWall_917	4	4	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	4	4	0.8	0.4	0	8.598	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	4	4	1.2	0.4	0	12.037	45
STRIP LeftWall_917	4	4	1.6	0.4	0	15.476	45
STRIP LeftWall_917	4	4	2.0	0.4	0	18.916	45
STRIP LeftWall_917	4	4	2.4	0.4	0	22.355	45
STRIP LeftWall_917	4	4	2.8	0.4	0	25.794	45
STRIP LeftWall_917	4	4	3.2	0.4	0	29.233	45
STRIP LeftWall_917	4	4	3.6	0.4	0	32.672	45
STRIP LeftWall_917	4	4	4.0	0.4	0	36.112	45
STRIP LeftWall_917	4	4	4.4	0.4	0	39.551	45
STRIP LeftWall_917	4	4	4.8	0.4	0	42.99	45
STRIP LeftWall_917	4	4	5.2	0.4	0	46.429	45
STRIP LeftWall_917	4	4	5.6	0.4	0	49.868	45
STRIP LeftWall_917	4	4	6.0	0.4	0	53.308	45
STRIP LeftWall_917	4	4	6.4	0.4	0	56.747	45
STRIP LeftWall_917	4	4	6.8	0.4	0	60.186	45
STRIP LeftWall_917	4	4	7.2	0.4	0	63.625	45
STRIP LeftWall_917	4	4	7.6	0.4	0	67.064	45
STRIP LeftWall_917	4	4	8.0	0.4	0	70.504	45
STRIP LeftWall_917	4	4	8.4	0.4	0	73.943	45
STRIP LeftWall_917	4	4	8.8	0.4	0	77.382	45
STRIP LeftWall_917	4	4	9.2	0.4	0	80.821	45
STRIP LeftWall_917	4	4	9.6	0.4	0	84.26	45
STRIP LeftWall_917	4	4	10.0	0.4	0	87.7	45
STRIP LeftWall_917	4	4	10.4	0.4	0	91.139	45
STRIP LeftWall_917	4	4	10.8	0.4	0	94.578	45
STRIP LeftWall_917	4	4	11.2	0.4	0	98.017	45
STRIP LeftWall_917	4	4	11.6	0.4	0	101.46	45
STRIP LeftWall_917	4	4	12.0	0.4	0	104.9	45
STRIP LeftWall_917	4	4	12.4	0.4	0	108.33	45
STRIP LeftWall_917	4	4	12.8	0.4	0	111.77	45
STRIP LeftWall_917	4	4	13.2	0.4	0	115.21	45
STRIP LeftWall_917	4	4	13.6	0.4	0	118.65	45
STRIP LeftWall_917	4	4	14.0	0.4	0	122.09	45
STRIP LeftWall_917	4	4	14.4	0.4	0	125.53	45
STRIP LeftWall_917	4	4	14.8	0.4	0	128.97	45
STRIP LeftWall_917	4	4	15.2	0.4	0	132.41	45
STRIP LeftWall_917	4	4	15.6	0.4	0	135.85	45
STRIP LeftWall_917	4	4	16.0	0.4	0	139.29	45
STRIP LeftWall_917	4	4	16.4	0.4	0	142.73	45
STRIP LeftWall_917	4	4	16.8	0.4	0	146.17	45
STRIP LeftWall_917	4	4	17.2	0.4	0	149.61	45
STRIP LeftWall_917	4	4	17.6	0.4	0	153.04	45
STRIP LeftWall_917	4	4	18.0	0.4	0	156.48	45
STRIP LeftWall_917	4	4	18.4	0.4	0	159.92	45
STRIP LeftWall_917	4	4	18.8	0.4	0	163.36	45
STRIP LeftWall_917	4	4	19.2	0.4	0	166.8	45
STRIP LeftWall_917	4	4	19.6	0.4	0	170.24	45
STRIP LeftWall_917	4	4	20.0	0.4	0	173.68	45
STRIP LeftWall_917	4	4	20.4	0.4	0	177.12	45
STRIP LeftWall_917	4	4	20.8	0.4	0	180.56	45
STRIP LeftWall_917	4	4	21.2	0.4	0	184	45
STRIP LeftWall_917	4	4	21.6	0.4	0	187.44	45
STRIP LeftWall_917	4	4	22.0	0.4	0	190.88	45
STRIP LeftWall_917	4	4	22.4	0.4	0	194.31	45
STRIP LeftWall_917	4	4	22.8	0.4	0	197.75	45
STRIP LeftWall_917	4	4	23.2	0.4	0	201.19	45
STRIP LeftWall_917	4	4	23.6	0.4	0	204.63	45
STRIP LeftWall_917	4	4	24.0	0.4	0	208.07	45
STRIP LeftWall_917	4	4	24.4	0.4	0	211.51	45
STRIP LeftWall_917	4	4	24.8	0.4	0	214.95	45
STRIP LeftWall_917	4	4	25.2	0.4	0	218.39	45
STRIP LeftWall_917	4	4	25.6	0.4	0	221.83	45
STRIP LeftWall_917	4	4	26.0	0.4	0	225.27	45
STRIP LeftWall_917	4	4	26.4	0.4	0	228.71	45
STRIP LeftWall_917	4	4	26.8	0.4	0	232.15	45
STRIP LeftWall_917	4	4	27.2	0.4	0	235.59	45
STRIP LeftWall_917	4	4	27.6	0.4	0	239.02	45
STRIP LeftWall_917	4	4	28.0	0.4	0	242.46	45
STRIP LeftWall_917	4	4	28.4	0.4	0	245.9	45
STRIP LeftWall_917	4	4	28.8	0.4	0	249.34	45
STRIP LeftWall_917	4	4	29.2	0.4	0	252.78	45
STRIP LeftWall_917	4	4	29.6	0.4	0	256.22	45
STRIP LeftWall_917	5	5	0.0	0.4	0	1.7196	45
STRIP LeftWall_917	5	5	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	5	5	0.8	0.4	0	8.598	45
STRIP LeftWall_917	5	5	1.2	0.4	0	12.037	45
STRIP LeftWall_917	5	5	1.6	0.4	0	15.476	45
STRIP LeftWall_917	5	5	2.0	0.4	0	18.916	45
STRIP LeftWall_917	5	5	2.4	0.4	0	22.355	45
STRIP LeftWall_917	5	5	2.8	0.4	0	25.794	45
STRIP LeftWall_917	5	5	3.2	0.4	0	29.233	45
STRIP LeftWall_917	5	5	3.6	0.4	0	32.672	45
STRIP LeftWall_917	5	5	4.0	0.4	0	36.112	45
STRIP LeftWall_917	5	5	4.4	0.4	0	39.551	45
STRIP LeftWall_917	5	5	4.8	0.4	0	42.99	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 5 5 5.2 0.4 0 46.429 45
STRIP LeftWall_917 5 5 5.6 0.4 0 49.868 45
STRIP LeftWall_917 5 5 6 0.4 0 53.308 45
STRIP LeftWall_917 5 5 6.4 0.4 0 56.747 45
STRIP LeftWall_917 5 5 6.8 0.4 0 60.186 45
STRIP LeftWall_917 5 5 7.2 0.4 0 63.625 45
STRIP LeftWall_917 5 5 7.6 0.4 0 67.064 45
STRIP LeftWall_917 5 5 8 0.4 0 70.504 45
STRIP LeftWall_917 5 5 8.4 0.4 0 73.943 45
STRIP LeftWall_917 5 5 8.8 0.4 0 77.382 45
STRIP LeftWall_917 5 5 9.2 0.4 0 80.821 45
STRIP LeftWall_917 5 5 9.6 0.4 0 84.26 45
STRIP LeftWall_917 5 5 10 0.4 0 87.7 45
STRIP LeftWall_917 5 5 10.4 0.4 0 91.139 45
STRIP LeftWall_917 5 5 10.8 0.4 0 94.578 45
STRIP LeftWall_917 5 5 11.2 0.4 0 98.017 45
STRIP LeftWall_917 5 5 11.6 0.4 0 101.46 45
STRIP LeftWall_917 5 5 12 0.4 0 104.9 45
STRIP LeftWall_917 5 5 12.4 0.4 0 108.33 45
STRIP LeftWall_917 5 5 12.8 0.4 0 111.77 45
STRIP LeftWall_917 5 5 13.2 0.4 0 115.21 45
STRIP LeftWall_917 5 5 13.6 0.4 0 118.65 45
STRIP LeftWall_917 5 5 14 0.4 0 122.09 45
STRIP LeftWall_917 5 5 14.4 0.4 0 125.53 45
STRIP LeftWall_917 5 5 14.8 0.4 0 128.97 45
STRIP LeftWall_917 5 5 15.2 0.4 0 132.41 45
STRIP LeftWall_917 5 5 15.6 0.4 0 135.85 45
STRIP LeftWall_917 5 5 16 0.4 0 139.29 45
STRIP LeftWall_917 5 5 16.4 0.4 0 142.73 45
STRIP LeftWall_917 5 5 16.8 0.4 0 146.17 45
STRIP LeftWall_917 5 5 17.2 0.4 0 149.61 45
STRIP LeftWall_917 5 5 17.6 0.4 0 153.04 45
STRIP LeftWall_917 5 5 18 0.4 0 156.48 45
STRIP LeftWall_917 5 5 18.4 0.4 0 159.92 45
STRIP LeftWall_917 5 5 18.8 0.4 0 163.36 45
STRIP LeftWall_917 5 5 19.2 0.4 0 166.8 45
STRIP LeftWall_917 5 5 19.6 0.4 0 170.24 45
STRIP LeftWall_917 5 5 20 0.4 0 173.68 45
STRIP LeftWall_917 5 5 20.4 0.4 0 177.12 45
STRIP LeftWall_917 5 5 20.8 0.4 0 180.56 45
STRIP LeftWall_917 5 5 21.2 0.4 0 184 45
STRIP LeftWall_917 5 5 21.6 0.4 0 187.44 45
STRIP LeftWall_917 5 5 22 0.4 0 190.88 45
STRIP LeftWall_917 5 5 22.4 0.4 0 194.31 45
STRIP LeftWall_917 5 5 22.8 0.4 0 197.75 45
STRIP LeftWall_917 5 5 23.2 0.4 0 201.19 45
STRIP LeftWall_917 5 5 23.6 0.4 0 204.63 45
STRIP LeftWall_917 5 5 24 0.4 0 208.07 45
STRIP LeftWall_917 5 5 24.4 0.4 0 211.51 45
STRIP LeftWall_917 5 5 24.8 0.4 0 214.95 45
STRIP LeftWall_917 5 5 25.2 0.4 0 218.39 45
STRIP LeftWall_917 5 5 25.6 0.4 0 221.83 45
STRIP LeftWall_917 5 5 26 0.4 0 225.27 45
STRIP LeftWall_917 5 5 26.4 0.4 0 228.71 45
STRIP LeftWall_917 5 5 26.8 0.4 0 232.15 45
STRIP LeftWall_917 5 5 27.2 0.4 0 235.59 45
STRIP LeftWall_917 5 5 27.6 0.4 0 239.02 45
STRIP LeftWall_917 5 5 28 0.4 0 242.46 45
STRIP LeftWall_917 5 5 28.4 0.4 0 245.9 45
STRIP LeftWall_917 5 5 28.8 0.4 0 249.34 45
STRIP LeftWall_917 5 5 29.2 0.4 0 252.78 45
STRIP LeftWall_917 5 5 29.6 0.4 0 256.22 45
STRIP LeftWall_917 6 6 0 0.4 0 1.7196 45
STRIP LeftWall_917 6 6 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 6 6 0.8 0.4 0 8.598 45
STRIP LeftWall_917 6 6 1.2 0.4 0 12.037 45
STRIP LeftWall_917 6 6 1.6 0.4 0 15.476 45
STRIP LeftWall_917 6 6 2 0.4 0 18.916 45
STRIP LeftWall_917 6 6 2.4 0.4 0 22.355 45
STRIP LeftWall_917 6 6 2.8 0.4 0 25.794 45
STRIP LeftWall_917 6 6 3.2 0.4 0 29.233 45
STRIP LeftWall_917 6 6 3.6 0.4 0 32.672 45
STRIP LeftWall_917 6 6 4 0.4 0 36.112 45
STRIP LeftWall_917 6 6 4.4 0.4 0 39.551 45
STRIP LeftWall_917 6 6 4.8 0.4 0 42.99 45
STRIP LeftWall_917 6 6 5.2 0.4 0 46.429 45
STRIP LeftWall_917 6 6 5.6 0.4 0 49.868 45
STRIP LeftWall_917 6 6 6 0.4 0 53.308 45
STRIP LeftWall_917 6 6 6.4 0.4 0 56.747 45
STRIP LeftWall_917 6 6 6.8 0.4 0 60.186 45
STRIP LeftWall_917 6 6 7.2 0.4 0 63.625 45
STRIP LeftWall_917 6 6 7.6 0.4 0 67.064 45
STRIP LeftWall_917 6 6 8 0.4 0 70.504 45
STRIP LeftWall_917 6 6 8.4 0.4 0 73.943 45
STRIP LeftWall_917 6 6 8.8 0.4 0 77.382 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 6 6 9.2 0.4 0 80.821 45
STRIP LeftWall_917 6 6 9.6 0.4 0 84.26 45
STRIP LeftWall_917 6 6 10 0.4 0 87.7 45
STRIP LeftWall_917 6 6 10.4 0.4 0 91.139 45
STRIP LeftWall_917 6 6 10.8 0.4 0 94.578 45
STRIP LeftWall_917 6 6 11.2 0.4 0 98.017 45
STRIP LeftWall_917 6 6 11.6 0.4 0 101.46 45
STRIP LeftWall_917 6 6 12 0.4 0 104.9 45
STRIP LeftWall_917 6 6 12.4 0.4 0 108.33 45
STRIP LeftWall_917 6 6 12.8 0.4 0 111.77 45
STRIP LeftWall_917 6 6 13.2 0.4 0 115.21 45
STRIP LeftWall_917 6 6 13.6 0.4 0 118.65 45
STRIP LeftWall_917 6 6 14 0.4 0 122.09 45
STRIP LeftWall_917 6 6 14.4 0.4 0 125.53 45
STRIP LeftWall_917 6 6 14.8 0.4 0 128.97 45
STRIP LeftWall_917 6 6 15.2 0.4 0 132.41 45
STRIP LeftWall_917 6 6 15.6 0.4 0 135.85 45
STRIP LeftWall_917 6 6 16 0.4 0 139.29 45
STRIP LeftWall_917 6 6 16.4 0.4 0 142.73 45
STRIP LeftWall_917 6 6 16.8 0.4 0 146.17 45
STRIP LeftWall_917 6 6 17.2 0.4 0 149.61 45
STRIP LeftWall_917 6 6 17.6 0.4 0 153.04 45
STRIP LeftWall_917 6 6 18 0.4 0 156.48 45
STRIP LeftWall_917 6 6 18.4 0.4 0 159.92 45
STRIP LeftWall_917 6 6 18.8 0.4 0 163.36 45
STRIP LeftWall_917 6 6 19.2 0.4 0 166.8 45
STRIP LeftWall_917 6 6 19.6 0.4 0 170.24 45
STRIP LeftWall_917 6 6 20 0.4 0 173.68 45
STRIP LeftWall_917 6 6 20.4 0.4 0 177.12 45
STRIP LeftWall_917 6 6 20.8 0.4 0 180.56 45
STRIP LeftWall_917 6 6 21.2 0.4 0 184 45
STRIP LeftWall_917 6 6 21.6 0.4 0 187.44 45
STRIP LeftWall_917 6 6 22 0.4 0 190.88 45
STRIP LeftWall_917 6 6 22.4 0.4 0 194.31 45
STRIP LeftWall_917 6 6 22.8 0.4 0 197.75 45
STRIP LeftWall_917 6 6 23.2 0.4 0 201.19 45
STRIP LeftWall_917 6 6 23.6 0.4 0 204.63 45
STRIP LeftWall_917 6 6 24 0.4 0 208.07 45
STRIP LeftWall_917 6 6 24.4 0.4 0 211.51 45
STRIP LeftWall_917 6 6 24.8 0.4 0 214.95 45
STRIP LeftWall_917 6 6 25.2 0.4 0 218.39 45
STRIP LeftWall_917 6 6 25.6 0.4 0 221.83 45
STRIP LeftWall_917 6 6 26 0.4 0 225.27 45
STRIP LeftWall_917 6 6 26.4 0.4 0 228.71 45
STRIP LeftWall_917 6 6 26.8 0.4 0 232.15 45
STRIP LeftWall_917 6 6 27.2 0.4 0 235.59 45
STRIP LeftWall_917 6 6 27.6 0.4 0 239.02 45
STRIP LeftWall_917 6 6 28 0.4 0 242.46 45
STRIP LeftWall_917 6 6 28.4 0.4 0 245.9 45
STRIP LeftWall_917 6 6 28.8 0.4 0 249.34 45
STRIP LeftWall_917 6 6 29.2 0.4 0 252.78 45
STRIP LeftWall_917 6 6 29.6 0.4 0 256.22 45
STRIP LeftWall_917 7 7 0 0.4 0 1.7196 45
STRIP LeftWall_917 7 7 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 7 7 0.8 0.4 0 8.598 45
STRIP LeftWall_917 7 7 1.2 0.4 0 12.037 45
STRIP LeftWall_917 7 7 1.6 0.4 0 15.476 45
STRIP LeftWall_917 7 7 2 0.4 0 18.916 45
STRIP LeftWall_917 7 7 2.4 0.4 0 22.355 45
STRIP LeftWall_917 7 7 2.8 0.4 0 25.794 45
STRIP LeftWall_917 7 7 3.2 0.4 0 29.233 45
STRIP LeftWall_917 7 7 3.6 0.4 0 32.672 45
STRIP LeftWall_917 7 7 4 0.4 0 36.112 45
STRIP LeftWall_917 7 7 4.4 0.4 0 39.551 45
STRIP LeftWall_917 7 7 4.8 0.4 0 42.99 45
STRIP LeftWall_917 7 7 5.2 0.4 0 46.429 45
STRIP LeftWall_917 7 7 5.6 0.4 0 49.868 45
STRIP LeftWall_917 7 7 6 0.4 0 53.308 45
STRIP LeftWall_917 7 7 6.4 0.4 0 56.747 45
STRIP LeftWall_917 7 7 6.8 0.4 0 60.186 45
STRIP LeftWall_917 7 7 7.2 0.4 0 63.625 45
STRIP LeftWall_917 7 7 7.6 0.4 0 67.064 45
STRIP LeftWall_917 7 7 8 0.4 0 70.504 45
STRIP LeftWall_917 7 7 8.4 0.4 0 73.943 45
STRIP LeftWall_917 7 7 8.8 0.4 0 77.382 45
STRIP LeftWall_917 7 7 9.2 0.4 0 80.821 45
STRIP LeftWall_917 7 7 9.6 0.4 0 84.26 45
STRIP LeftWall_917 7 7 10 0.4 0 87.7 45
STRIP LeftWall_917 7 7 10.4 0.4 0 91.139 45
STRIP LeftWall_917 7 7 10.8 0.4 0 94.578 45
STRIP LeftWall_917 7 7 11.2 0.4 0 98.017 45
STRIP LeftWall_917 7 7 11.6 0.4 0 101.46 45
STRIP LeftWall_917 7 7 12 0.4 0 104.9 45
STRIP LeftWall_917 7 7 12.4 0.4 0 108.33 45
STRIP LeftWall_917 7 7 12.8 0.4 0 111.77 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 7 7 13.2 0.4 0 115.21 45
STRIP LeftWall_917 7 7 13.6 0.4 0 118.65 45
STRIP LeftWall_917 7 7 14 0.4 0 122.09 45
STRIP LeftWall_917 7 7 14.4 0.4 0 125.53 45
STRIP LeftWall_917 7 7 14.8 0.4 0 128.97 45
STRIP LeftWall_917 7 7 15.2 0.4 0 132.41 45
STRIP LeftWall_917 7 7 15.6 0.4 0 135.85 45
STRIP LeftWall_917 7 7 16 0.4 0 139.29 45
STRIP LeftWall_917 7 7 16.4 0.4 0 142.73 45
STRIP LeftWall_917 7 7 16.8 0.4 0 146.17 45
STRIP LeftWall_917 7 7 17.2 0.4 0 149.61 45
STRIP LeftWall_917 7 7 17.6 0.4 0 153.04 45
STRIP LeftWall_917 7 7 18 0.4 0 156.48 45
STRIP LeftWall_917 7 7 18.4 0.4 0 159.92 45
STRIP LeftWall_917 7 7 18.8 0.4 0 163.36 45
STRIP LeftWall_917 7 7 19.2 0.4 0 166.8 45
STRIP LeftWall_917 7 7 19.6 0.4 0 170.24 45
STRIP LeftWall_917 7 7 20 0.4 0 173.68 45
STRIP LeftWall_917 7 7 20.4 0.4 0 177.12 45
STRIP LeftWall_917 7 7 20.8 0.4 0 180.56 45
STRIP LeftWall_917 7 7 21.2 0.4 0 184 45
STRIP LeftWall_917 7 7 21.6 0.4 0 187.44 45
STRIP LeftWall_917 7 7 22 0.4 0 190.88 45
STRIP LeftWall_917 7 7 22.4 0.4 0 194.31 45
STRIP LeftWall_917 7 7 22.8 0.4 0 197.75 45
STRIP LeftWall_917 7 7 23.2 0.4 0 201.19 45
STRIP LeftWall_917 7 7 23.6 0.4 0 204.63 45
STRIP LeftWall_917 7 7 24 0.4 0 208.07 45
STRIP LeftWall_917 7 7 24.4 0.4 0 211.51 45
STRIP LeftWall_917 7 7 24.8 0.4 0 214.95 45
STRIP LeftWall_917 7 7 25.2 0.4 0 218.39 45
STRIP LeftWall_917 7 7 25.6 0.4 0 221.83 45
STRIP LeftWall_917 7 7 26 0.4 0 225.27 45
STRIP LeftWall_917 7 7 26.4 0.4 0 228.71 45
STRIP LeftWall_917 7 7 26.8 0.4 0 232.15 45
STRIP LeftWall_917 7 7 27.2 0.4 0 235.59 45
STRIP LeftWall_917 7 7 27.6 0.4 0 239.02 45
STRIP LeftWall_917 7 7 28 0.4 0 242.46 45
STRIP LeftWall_917 7 7 28.4 0.4 0 245.9 45
STRIP LeftWall_917 7 7 28.8 0.4 0 249.34 45
STRIP LeftWall_917 7 7 29.2 0.4 0 252.78 45
STRIP LeftWall_917 7 7 29.6 0.4 0 256.22 45
STRIP LeftWall_917 8 8 0 0.4 0 1.7196 45
STRIP LeftWall_917 8 8 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 8 8 0.8 0.4 0 8.598 45
STRIP LeftWall_917 8 8 1.2 0.4 0 12.037 45
STRIP LeftWall_917 8 8 1.6 0.4 0 15.476 45
STRIP LeftWall_917 8 8 2 0.4 0 18.916 45
STRIP LeftWall_917 8 8 2.4 0.4 0 22.355 45
STRIP LeftWall_917 8 8 2.8 0.4 0 25.794 45
STRIP LeftWall_917 8 8 3.2 0.4 0 29.233 45
STRIP LeftWall_917 8 8 3.6 0.4 0 32.672 45
STRIP LeftWall_917 8 8 4 0.4 0 36.112 45
STRIP LeftWall_917 8 8 4.4 0.4 0 39.551 45
STRIP LeftWall_917 8 8 4.8 0.4 0 42.99 45
STRIP LeftWall_917 8 8 5.2 0.4 0 46.429 45
STRIP LeftWall_917 8 8 5.6 0.4 0 49.868 45
STRIP LeftWall_917 8 8 6 0.4 0 53.308 45
STRIP LeftWall_917 8 8 6.4 0.4 0 56.747 45
STRIP LeftWall_917 8 8 6.8 0.4 0 60.186 45
STRIP LeftWall_917 8 8 7.2 0.4 0 63.625 45
STRIP LeftWall_917 8 8 7.6 0.4 0 67.064 45
STRIP LeftWall_917 8 8 8 0.4 0 70.504 45
STRIP LeftWall_917 8 8 8.4 0.4 0 73.943 45
STRIP LeftWall_917 8 8 8.8 0.4 0 77.382 45
STRIP LeftWall_917 8 8 9.2 0.4 0 80.821 45
STRIP LeftWall_917 8 8 9.6 0.4 0 84.26 45
STRIP LeftWall_917 8 8 10 0.4 0 87.7 45
STRIP LeftWall_917 8 8 10.4 0.4 0 91.139 45
STRIP LeftWall_917 8 8 10.8 0.4 0 94.578 45
STRIP LeftWall_917 8 8 11.2 0.4 0 98.017 45
STRIP LeftWall_917 8 8 11.6 0.4 0 101.46 45
STRIP LeftWall_917 8 8 12 0.4 0 104.9 45
STRIP LeftWall_917 8 8 12.4 0.4 0 108.33 45
STRIP LeftWall_917 8 8 12.8 0.4 0 111.77 45
STRIP LeftWall_917 8 8 13.2 0.4 0 115.21 45
STRIP LeftWall_917 8 8 13.6 0.4 0 118.65 45
STRIP LeftWall_917 8 8 14 0.4 0 122.09 45
STRIP LeftWall_917 8 8 14.4 0.4 0 125.53 45
STRIP LeftWall_917 8 8 14.8 0.4 0 128.97 45
STRIP LeftWall_917 8 8 15.2 0.4 0 132.41 45
STRIP LeftWall_917 8 8 15.6 0.4 0 135.85 45
STRIP LeftWall_917 8 8 16 0.4 0 139.29 45
STRIP LeftWall_917 8 8 16.4 0.4 0 142.73 45
STRIP LeftWall_917 8 8 16.8 0.4 0 146.17 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917	8	8	17.2	0.4	0	149.61	45
STRIP LeftWall_917	8	8	17.6	0.4	0	153.04	45
STRIP LeftWall_917	8	8	18	0.4	0	156.48	45
STRIP LeftWall_917	8	8	18.4	0.4	0	159.92	45
STRIP LeftWall_917	8	8	18.8	0.4	0	163.36	45
STRIP LeftWall_917	8	8	19.2	0.4	0	166.8	45
STRIP LeftWall_917	8	8	19.6	0.4	0	170.24	45
STRIP LeftWall_917	8	8	20	0.4	0	173.68	45
STRIP LeftWall_917	8	8	20.4	0.4	0	177.12	45
STRIP LeftWall_917	8	8	20.8	0.4	0	180.56	45
STRIP LeftWall_917	8	8	21.2	0.4	0	184	45
STRIP LeftWall_917	8	8	21.6	0.4	0	187.44	45
STRIP LeftWall_917	8	8	22	0.4	0	190.88	45
STRIP LeftWall_917	8	8	22.4	0.4	0	194.31	45
STRIP LeftWall_917	8	8	22.8	0.4	0	197.75	45
STRIP LeftWall_917	8	8	23.2	0.4	0	201.19	45
STRIP LeftWall_917	8	8	23.6	0.4	0	204.63	45
STRIP LeftWall_917	8	8	24	0.4	0	208.07	45
STRIP LeftWall_917	8	8	24.4	0.4	0	211.51	45
STRIP LeftWall_917	8	8	24.8	0.4	0	214.95	45
STRIP LeftWall_917	8	8	25.2	0.4	0	218.39	45
STRIP LeftWall_917	8	8	25.6	0.4	0	221.83	45
STRIP LeftWall_917	8	8	26	0.4	0	225.27	45
STRIP LeftWall_917	8	8	26.4	0.4	0	228.71	45
STRIP LeftWall_917	8	8	26.8	0.4	0	232.15	45
STRIP LeftWall_917	8	8	27.2	0.4	0	235.59	45
STRIP LeftWall_917	8	8	27.6	0.4	0	239.02	45
STRIP LeftWall_917	8	8	28	0.4	0	242.46	45
STRIP LeftWall_917	8	8	28.4	0.4	0	245.9	45
STRIP LeftWall_917	8	8	28.8	0.4	0	249.34	45
STRIP LeftWall_917	8	8	29.2	0.4	0	252.78	45
STRIP LeftWall_917	8	8	29.6	0.4	0	256.22	45
STRIP LeftWall_917	9	9	0	0.4	0	1.7196	45
STRIP LeftWall_917	9	9	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	9	9	0.8	0.4	0	8.598	45
STRIP LeftWall_917	9	9	1.2	0.4	0	12.037	45
STRIP LeftWall_917	9	9	1.6	0.4	0	15.476	45
STRIP LeftWall_917	9	9	2	0.4	0	18.916	45
STRIP LeftWall_917	9	9	2.4	0.4	0	22.355	45
STRIP LeftWall_917	9	9	2.8	0.4	0	25.794	45
STRIP LeftWall_917	9	9	3.2	0.4	0	29.233	45
STRIP LeftWall_917	9	9	3.6	0.4	0	32.672	45
STRIP LeftWall_917	9	9	4	0.4	0	36.112	45
STRIP LeftWall_917	9	9	4.4	0.4	0	39.551	45
STRIP LeftWall_917	9	9	4.8	0.4	0	42.99	45
STRIP LeftWall_917	9	9	5.2	0.4	0	46.429	45
STRIP LeftWall_917	9	9	5.6	0.4	0	49.868	45
STRIP LeftWall_917	9	9	6	0.4	0	53.308	45
STRIP LeftWall_917	9	9	6.4	0.4	0	56.747	45
STRIP LeftWall_917	9	9	6.8	0.4	0	60.186	45
STRIP LeftWall_917	9	9	7.2	0.4	0	63.625	45
STRIP LeftWall_917	9	9	7.6	0.4	0	67.064	45
STRIP LeftWall_917	9	9	8	0.4	0	70.504	45
STRIP LeftWall_917	9	9	8.4	0.4	0	73.943	45
STRIP LeftWall_917	9	9	8.8	0.4	0	77.382	45
STRIP LeftWall_917	9	9	9.2	0.4	0	80.821	45
STRIP LeftWall_917	9	9	9.6	0.4	0	84.26	45
STRIP LeftWall_917	9	9	10	0.4	0	87.7	45
STRIP LeftWall_917	9	9	10.4	0.4	0	91.139	45
STRIP LeftWall_917	9	9	10.8	0.4	0	94.578	45
STRIP LeftWall_917	9	9	11.2	0.4	0	98.017	45
STRIP LeftWall_917	9	9	11.6	0.4	0	101.46	45
STRIP LeftWall_917	9	9	12	0.4	0	104.9	45
STRIP LeftWall_917	9	9	12.4	0.4	0	108.33	45
STRIP LeftWall_917	9	9	12.8	0.4	0	111.77	45
STRIP LeftWall_917	9	9	13.2	0.4	0	115.21	45
STRIP LeftWall_917	9	9	13.6	0.4	0	118.65	45
STRIP LeftWall_917	9	9	14	0.4	0	122.09	45
STRIP LeftWall_917	9	9	14.4	0.4	0	125.53	45
STRIP LeftWall_917	9	9	14.8	0.4	0	128.97	45
STRIP LeftWall_917	9	9	15.2	0.4	0	132.41	45
STRIP LeftWall_917	9	9	15.6	0.4	0	135.85	45
STRIP LeftWall_917	9	9	16	0.4	0	139.29	45
STRIP LeftWall_917	9	9	16.4	0.4	0	142.73	45
STRIP LeftWall_917	9	9	16.8	0.4	0	146.17	45
STRIP LeftWall_917	9	9	17.2	0.4	0	149.61	45
STRIP LeftWall_917	9	9	17.6	0.4	0	153.04	45
STRIP LeftWall_917	9	9	18	0.4	0	156.48	45
STRIP LeftWall_917	9	9	18.4	0.4	0	159.92	45
STRIP LeftWall_917	9	9	18.8	0.4	0	163.36	45
STRIP LeftWall_917	9	9	19.2	0.4	0	166.8	45
STRIP LeftWall_917	9	9	19.6	0.4	0	170.24	45
STRIP LeftWall_917	9	9	20	0.4	0	173.68	45
STRIP LeftWall_917	9	9	20.4	0.4	0	177.12	45
STRIP LeftWall_917	9	9	20.8	0.4	0	180.56	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 9 9 21.2 0.4 0 184.45
STRIP LeftWall_917 9 9 21.6 0.4 0 187.44 45
STRIP LeftWall_917 9 9 22 0.4 0 190.88 45
STRIP LeftWall_917 9 9 22.4 0.4 0 194.31 45
STRIP LeftWall_917 9 9 22.8 0.4 0 197.75 45
STRIP LeftWall_917 9 9 23.2 0.4 0 201.19 45
STRIP LeftWall_917 9 9 23.6 0.4 0 204.63 45
STRIP LeftWall_917 9 9 24 0.4 0 208.07 45
STRIP LeftWall_917 9 9 24.4 0.4 0 211.51 45
STRIP LeftWall_917 9 9 24.8 0.4 0 214.95 45
STRIP LeftWall_917 9 9 25.2 0.4 0 218.39 45
STRIP LeftWall_917 9 9 25.6 0.4 0 221.83 45
STRIP LeftWall_917 9 9 26 0.4 0 225.27 45
STRIP LeftWall_917 9 9 26.4 0.4 0 228.71 45
STRIP LeftWall_917 9 9 26.8 0.4 0 232.15 45
STRIP LeftWall_917 9 9 27.2 0.4 0 235.59 45
STRIP LeftWall_917 9 9 27.6 0.4 0 239.02 45
STRIP LeftWall_917 9 9 28 0.4 0 242.46 45
STRIP LeftWall_917 9 9 28.4 0.4 0 245.9 45
STRIP LeftWall_917 9 9 28.8 0.4 0 249.34 45
STRIP LeftWall_917 9 9 29.2 0.4 0 252.78 45
STRIP LeftWall_917 9 9 29.6 0.4 0 256.22 45
STRIP LeftWall_917 10 10 0 0.4 0 1.7196 45
STRIP LeftWall_917 10 10 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 10 10 0.8 0.4 0 8.598 45
STRIP LeftWall_917 10 10 1.2 0.4 0 12.037 45
STRIP LeftWall_917 10 10 1.6 0.4 0 15.476 45
STRIP LeftWall_917 10 10 2 0.4 0 18.916 45
STRIP LeftWall_917 10 10 2.4 0.4 0 22.355 45
STRIP LeftWall_917 10 10 2.8 0.4 0 25.794 45
STRIP LeftWall_917 10 10 3.2 0.4 0 29.233 45
STRIP LeftWall_917 10 10 3.6 0.4 0 32.672 45
STRIP LeftWall_917 10 10 4 0.4 0 36.112 45
STRIP LeftWall_917 10 10 4.4 0.4 0 39.551 45
STRIP LeftWall_917 10 10 4.8 0.4 0 42.99 45
STRIP LeftWall_917 10 10 5.2 0.4 0 46.429 45
STRIP LeftWall_917 10 10 5.6 0.4 0 49.868 45
STRIP LeftWall_917 10 10 6 0.4 0 53.308 45
STRIP LeftWall_917 10 10 6.4 0.4 0 56.747 45
STRIP LeftWall_917 10 10 6.8 0.4 0 60.186 45
STRIP LeftWall_917 10 10 7.2 0.4 0 63.625 45
STRIP LeftWall_917 10 10 7.6 0.4 0 67.064 45
STRIP LeftWall_917 10 10 8 0.4 0 70.504 45
STRIP LeftWall_917 10 10 8.4 0.4 0 73.943 45
STRIP LeftWall_917 10 10 8.8 0.4 0 77.382 45
STRIP LeftWall_917 10 10 9.2 0.4 0 80.821 45
STRIP LeftWall_917 10 10 9.6 0.4 0 84.26 45
STRIP LeftWall_917 10 10 10 0.4 0 87.7 45
STRIP LeftWall_917 10 10 10.4 0.4 0 91.139 45
STRIP LeftWall_917 10 10 10.8 0.4 0 94.578 45
STRIP LeftWall_917 10 10 11.2 0.4 0 98.017 45
STRIP LeftWall_917 10 10 11.6 0.4 0 101.46 45
STRIP LeftWall_917 10 10 12 0.4 0 104.9 45
STRIP LeftWall_917 10 10 12.4 0.4 0 108.33 45
STRIP LeftWall_917 10 10 12.8 0.4 0 111.77 45
STRIP LeftWall_917 10 10 13.2 0.4 0 115.21 45
STRIP LeftWall_917 10 10 13.6 0.4 0 118.65 45
STRIP LeftWall_917 10 10 14 0.4 0 122.09 45
STRIP LeftWall_917 10 10 14.4 0.4 0 125.53 45
STRIP LeftWall_917 10 10 14.8 0.4 0 128.97 45
STRIP LeftWall_917 10 10 15.2 0.4 0 132.41 45
STRIP LeftWall_917 10 10 15.6 0.4 0 135.85 45
STRIP LeftWall_917 10 10 16 0.4 0 139.29 45
STRIP LeftWall_917 10 10 16.4 0.4 0 142.73 45
STRIP LeftWall_917 10 10 16.8 0.4 0 146.17 45
STRIP LeftWall_917 10 10 17.2 0.4 0 149.61 45
STRIP LeftWall_917 10 10 17.6 0.4 0 153.04 45
STRIP LeftWall_917 10 10 18 0.4 0 156.48 45
STRIP LeftWall_917 10 10 18.4 0.4 0 159.92 45
STRIP LeftWall_917 10 10 18.8 0.4 0 163.36 45
STRIP LeftWall_917 10 10 19.2 0.4 0 166.8 45
STRIP LeftWall_917 10 10 19.6 0.4 0 170.24 45
STRIP LeftWall_917 10 10 20 0.4 0 173.68 45
STRIP LeftWall_917 10 10 20.4 0.4 0 177.12 45
STRIP LeftWall_917 10 10 20.8 0.4 0 180.56 45
STRIP LeftWall_917 10 10 21.2 0.4 0 184 45
STRIP LeftWall_917 10 10 21.6 0.4 0 187.44 45
STRIP LeftWall_917 10 10 22 0.4 0 190.88 45
STRIP LeftWall_917 10 10 22.4 0.4 0 194.31 45
STRIP LeftWall_917 10 10 22.8 0.4 0 197.75 45
STRIP LeftWall_917 10 10 23.2 0.4 0 201.19 45
STRIP LeftWall_917 10 10 23.6 0.4 0 204.63 45
STRIP LeftWall_917 10 10 24 0.4 0 208.07 45
STRIP LeftWall_917 10 10 24.4 0.4 0 211.51 45
STRIP LeftWall_917 10 10 24.8 0.4 0 214.95 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	10	10	25.2	0.4	0	218.39	45
STRIP LeftWall_917	10	10	25.6	0.4	0	221.83	45
STRIP LeftWall_917	10	10	26	0.4	0	225.27	45
STRIP LeftWall_917	10	10	26.4	0.4	0	228.71	45
STRIP LeftWall_917	10	10	26.8	0.4	0	232.15	45
STRIP LeftWall_917	10	10	27.2	0.4	0	235.59	45
STRIP LeftWall_917	10	10	27.6	0.4	0	239.02	45
STRIP LeftWall_917	10	10	28	0.4	0	242.46	45
STRIP LeftWall_917	10	10	28.4	0.4	0	245.9	45
STRIP LeftWall_917	10	10	28.8	0.4	0	249.34	45
STRIP LeftWall_917	10	10	29.2	0.4	0	252.78	45
STRIP LeftWall_917	10	10	29.6	0.4	0	256.22	45
STRIP LeftWall_917	11	11	0	0.4	0	1.7196	45
STRIP LeftWall_917	11	11	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	11	11	0.8	0.4	0	8.598	45
STRIP LeftWall_917	11	11	1.2	0.4	0	12.037	45
STRIP LeftWall_917	11	11	1.6	0.4	0	15.476	45
STRIP LeftWall_917	11	11	2	0.4	0	18.916	45
STRIP LeftWall_917	11	11	2.4	0.4	0	22.355	45
STRIP LeftWall_917	11	11	2.8	0.4	0	25.794	45
STRIP LeftWall_917	11	11	3.2	0.4	0	29.233	45
STRIP LeftWall_917	11	11	3.6	0.4	0	32.672	45
STRIP LeftWall_917	11	11	4	0.4	0	36.112	45
STRIP LeftWall_917	11	11	4.4	0.4	0	39.551	45
STRIP LeftWall_917	11	11	4.8	0.4	0	42.99	45
STRIP LeftWall_917	11	11	5.2	0.4	0	46.429	45
STRIP LeftWall_917	11	11	5.6	0.4	0	49.868	45
STRIP LeftWall_917	11	11	6	0.4	0	53.308	45
STRIP LeftWall_917	11	11	6.4	0.4	0	56.747	45
STRIP LeftWall_917	11	11	6.8	0.4	0	60.186	45
STRIP LeftWall_917	11	11	7.2	0.4	0	63.625	45
STRIP LeftWall_917	11	11	7.6	0.4	0	67.064	45
STRIP LeftWall_917	11	11	8	0.4	0	70.504	45
STRIP LeftWall_917	11	11	8.4	0.4	0	73.943	45
STRIP LeftWall_917	11	11	8.8	0.4	0	77.382	45
STRIP LeftWall_917	11	11	9.2	0.4	0	80.821	45
STRIP LeftWall_917	11	11	9.6	0.4	0	84.26	45
STRIP LeftWall_917	11	11	10	0.4	0	87.7	45
STRIP LeftWall_917	11	11	10.4	0.4	0	91.139	45
STRIP LeftWall_917	11	11	10.8	0.4	0	94.578	45
STRIP LeftWall_917	11	11	11.2	0.4	0	98.017	45
STRIP LeftWall_917	11	11	11.6	0.4	0	101.46	45
STRIP LeftWall_917	11	11	12	0.4	0	104.9	45
STRIP LeftWall_917	11	11	12.4	0.4	0	108.33	45
STRIP LeftWall_917	11	11	12.8	0.4	0	111.77	45
STRIP LeftWall_917	11	11	13.2	0.4	0	115.21	45
STRIP LeftWall_917	11	11	13.6	0.4	0	118.65	45
STRIP LeftWall_917	11	11	14	0.4	0	122.09	45
STRIP LeftWall_917	11	11	14.4	0.4	0	125.53	45
STRIP LeftWall_917	11	11	14.8	0.4	0	128.97	45
STRIP LeftWall_917	11	11	15.2	0.4	0	132.41	45
STRIP LeftWall_917	11	11	15.6	0.4	0	135.85	45
STRIP LeftWall_917	11	11	16	0.4	0	139.29	45
STRIP LeftWall_917	11	11	16.4	0.4	0	142.73	45
STRIP LeftWall_917	11	11	16.8	0.4	0	146.17	45
STRIP LeftWall_917	11	11	17.2	0.4	0	149.61	45
STRIP LeftWall_917	11	11	17.6	0.4	0	153.04	45
STRIP LeftWall_917	11	11	18	0.4	0	156.48	45
STRIP LeftWall_917	11	11	18.4	0.4	0	159.92	45
STRIP LeftWall_917	11	11	18.8	0.4	0	163.36	45
STRIP LeftWall_917	11	11	19.2	0.4	0	166.8	45
STRIP LeftWall_917	11	11	19.6	0.4	0	170.24	45
STRIP LeftWall_917	11	11	20	0.4	0	173.68	45
STRIP LeftWall_917	11	11	20.4	0.4	0	177.12	45
STRIP LeftWall_917	11	11	20.8	0.4	0	180.56	45
STRIP LeftWall_917	11	11	21.2	0.4	0	184	45
STRIP LeftWall_917	11	11	21.6	0.4	0	187.44	45
STRIP LeftWall_917	11	11	22	0.4	0	190.88	45
STRIP LeftWall_917	11	11	22.4	0.4	0	194.31	45
STRIP LeftWall_917	11	11	22.8	0.4	0	197.75	45
STRIP LeftWall_917	11	11	23.2	0.4	0	201.19	45
STRIP LeftWall_917	11	11	23.6	0.4	0	204.63	45
STRIP LeftWall_917	11	11	24	0.4	0	208.07	45
STRIP LeftWall_917	11	11	24.4	0.4	0	211.51	45
STRIP LeftWall_917	11	11	24.8	0.4	0	214.95	45
STRIP LeftWall_917	11	11	25.2	0.4	0	218.39	45
STRIP LeftWall_917	11	11	25.6	0.4	0	221.83	45
STRIP LeftWall_917	11	11	26	0.4	0	225.27	45
STRIP LeftWall_917	11	11	26.4	0.4	0	228.71	45
STRIP LeftWall_917	11	11	26.8	0.4	0	232.15	45
STRIP LeftWall_917	11	11	27.2	0.4	0	235.59	45
STRIP LeftWall_917	11	11	27.6	0.4	0	239.02	45
STRIP LeftWall_917	11	11	28	0.4	0	242.46	45
STRIP LeftWall_917	11	11	28.4	0.4	0	245.9	45
STRIP LeftWall_917	11	11	28.8	0.4	0	249.34	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 11 11 29.2 0.4 0 252.78 45
STRIP LeftWall_917 11 11 29.6 0.4 0 256.22 45
STRIP LeftWall_917 12 12 0 0.4 0 1.7196 45
STRIP LeftWall_917 12 12 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 12 12 0.8 0.4 0 8.598 45
STRIP LeftWall_917 12 12 1.2 0.4 0 12.037 45
STRIP LeftWall_917 12 12 1.6 0.4 0 15.476 45
STRIP LeftWall_917 12 12 2 0.4 0 18.916 45
STRIP LeftWall_917 12 12 2.4 0.4 0 22.355 45
STRIP LeftWall_917 12 12 2.8 0.4 0 25.794 45
STRIP LeftWall_917 12 12 3.2 0.4 0 29.233 45
STRIP LeftWall_917 12 12 3.6 0.4 0 32.672 45
STRIP LeftWall_917 12 12 4 0.4 0 36.112 45
STRIP LeftWall_917 12 12 4.4 0.4 0 39.551 45
STRIP LeftWall_917 12 12 4.8 0.4 0 42.99 45
STRIP LeftWall_917 12 12 5.2 0.4 0 46.429 45
STRIP LeftWall_917 12 12 5.6 0.4 0 49.868 45
STRIP LeftWall_917 12 12 6 0.4 0 53.308 45
STRIP LeftWall_917 12 12 6.4 0.4 0 56.747 45
STRIP LeftWall_917 12 12 6.8 0.4 0 60.186 45
STRIP LeftWall_917 12 12 7.2 0.4 0 63.625 45
STRIP LeftWall_917 12 12 7.6 0.4 0 67.064 45
STRIP LeftWall_917 12 12 8 0.4 0 70.504 45
STRIP LeftWall_917 12 12 8.4 0.4 0 73.943 45
STRIP LeftWall_917 12 12 8.8 0.4 0 77.382 45
STRIP LeftWall_917 12 12 9.2 0.4 0 80.821 45
STRIP LeftWall_917 12 12 9.6 0.4 0 84.26 45
STRIP LeftWall_917 12 12 10 0.4 0 87.7 45
STRIP LeftWall_917 12 12 10.4 0.4 0 91.139 45
STRIP LeftWall_917 12 12 10.8 0.4 0 94.578 45
STRIP LeftWall_917 12 12 11.2 0.4 0 98.017 45
STRIP LeftWall_917 12 12 11.6 0.4 0 101.46 45
STRIP LeftWall_917 12 12 12 0.4 0 104.9 45
STRIP LeftWall_917 12 12 12.4 0.4 0 108.33 45
STRIP LeftWall_917 12 12 12.8 0.4 0 111.77 45
STRIP LeftWall_917 12 12 13.2 0.4 0 115.21 45
STRIP LeftWall_917 12 12 13.6 0.4 0 118.65 45
STRIP LeftWall_917 12 12 14 0.4 0 122.09 45
STRIP LeftWall_917 12 12 14.4 0.4 0 125.53 45
STRIP LeftWall_917 12 12 14.8 0.4 0 128.97 45
STRIP LeftWall_917 12 12 15.2 0.4 0 132.41 45
STRIP LeftWall_917 12 12 15.6 0.4 0 135.85 45
STRIP LeftWall_917 12 12 16 0.4 0 139.29 45
STRIP LeftWall_917 12 12 16.4 0.4 0 142.73 45
STRIP LeftWall_917 12 12 16.8 0.4 0 146.17 45
STRIP LeftWall_917 12 12 17.2 0.4 0 149.61 45
STRIP LeftWall_917 12 12 17.6 0.4 0 153.04 45
STRIP LeftWall_917 12 12 18 0.4 0 156.48 45
STRIP LeftWall_917 12 12 18.4 0.4 0 159.92 45
STRIP LeftWall_917 12 12 18.8 0.4 0 163.36 45
STRIP LeftWall_917 12 12 19.2 0.4 0 166.8 45
STRIP LeftWall_917 12 12 19.6 0.4 0 170.24 45
STRIP LeftWall_917 12 12 20 0.4 0 173.68 45
STRIP LeftWall_917 12 12 20.4 0.4 0 177.12 45
STRIP LeftWall_917 12 12 20.8 0.4 0 180.56 45
STRIP LeftWall_917 12 12 21.2 0.4 0 184 45
STRIP LeftWall_917 12 12 21.6 0.4 0 187.44 45
STRIP LeftWall_917 12 12 22 0.4 0 190.88 45
STRIP LeftWall_917 12 12 22.4 0.4 0 194.31 45
STRIP LeftWall_917 12 12 22.8 0.4 0 197.75 45
STRIP LeftWall_917 12 12 23.2 0.4 0 201.19 45
STRIP LeftWall_917 12 12 23.6 0.4 0 204.63 45
STRIP LeftWall_917 12 12 24 0.4 0 208.07 45
STRIP LeftWall_917 12 12 24.4 0.4 0 211.51 45
STRIP LeftWall_917 12 12 24.8 0.4 0 214.95 45
STRIP LeftWall_917 12 12 25.2 0.4 0 218.39 45
STRIP LeftWall_917 12 12 25.6 0.4 0 221.83 45
STRIP LeftWall_917 12 12 26 0.4 0 225.27 45
STRIP LeftWall_917 12 12 26.4 0.4 0 228.71 45
STRIP LeftWall_917 12 12 26.8 0.4 0 232.15 45
STRIP LeftWall_917 12 12 27.2 0.4 0 235.59 45
STRIP LeftWall_917 12 12 27.6 0.4 0 239.02 45
STRIP LeftWall_917 12 12 28 0.4 0 242.46 45
STRIP LeftWall_917 12 12 28.4 0.4 0 245.9 45
STRIP LeftWall_917 12 12 28.8 0.4 0 249.34 45
STRIP LeftWall_917 12 12 29.2 0.4 0 252.78 45
STRIP LeftWall_917 12 12 29.6 0.4 0 256.22 45
STRIP LeftWall_917 13 13 0 0.4 0 1.7196 45
STRIP LeftWall_917 13 13 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 13 13 0.8 0.4 0 8.598 45
STRIP LeftWall_917 13 13 1.2 0.4 0 12.037 45
STRIP LeftWall_917 13 13 1.6 0.4 0 15.476 45
STRIP LeftWall_917 13 13 2 0.4 0 18.916 45
STRIP LeftWall_917 13 13 2.4 0.4 0 22.355 45
STRIP LeftWall_917 13 13 2.8 0.4 0 25.794 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 13 13 3.2 0.4 0 29.233 45
STRIP LeftWall_917 13 13 3.6 0.4 0 32.672 45
STRIP LeftWall_917 13 13 4 0.4 0 36.112 45
STRIP LeftWall_917 13 13 4.4 0.4 0 39.551 45
STRIP LeftWall_917 13 13 4.8 0.4 0 42.99 45
STRIP LeftWall_917 13 13 5.2 0.4 0 46.429 45
STRIP LeftWall_917 13 13 5.6 0.4 0 49.868 45
STRIP LeftWall_917 13 13 6 0.4 0 53.308 45
STRIP LeftWall_917 13 13 6.4 0.4 0 56.747 45
STRIP LeftWall_917 13 13 6.8 0.4 0 60.186 45
STRIP LeftWall_917 13 13 7.2 0.4 0 63.625 45
STRIP LeftWall_917 13 13 7.6 0.4 0 67.064 45
STRIP LeftWall_917 13 13 8 0.4 0 70.504 45
STRIP LeftWall_917 13 13 8.4 0.4 0 73.943 45
STRIP LeftWall_917 13 13 8.8 0.4 0 77.382 45
STRIP LeftWall_917 13 13 9.2 0.4 0 80.821 45
STRIP LeftWall_917 13 13 9.6 0.4 0 84.26 45
STRIP LeftWall_917 13 13 10 0.4 0 87.7 45
STRIP LeftWall_917 13 13 10.4 0.4 0 91.139 45
STRIP LeftWall_917 13 13 10.8 0.4 0 94.578 45
STRIP LeftWall_917 13 13 11.2 0.4 0 98.017 45
STRIP LeftWall_917 13 13 11.6 0.4 0 101.46 45
STRIP LeftWall_917 13 13 12 0.4 0 104.9 45
STRIP LeftWall_917 13 13 12.4 0.4 0 108.33 45
STRIP LeftWall_917 13 13 12.8 0.4 0 111.77 45
STRIP LeftWall_917 13 13 13.2 0.4 0 115.21 45
STRIP LeftWall_917 13 13 13.6 0.4 0 118.65 45
STRIP LeftWall_917 13 13 14 0.4 0 122.09 45
STRIP LeftWall_917 13 13 14.4 0.4 0 125.53 45
STRIP LeftWall_917 13 13 14.8 0.4 0 128.97 45
STRIP LeftWall_917 13 13 15.2 0.4 0 132.41 45
STRIP LeftWall_917 13 13 15.6 0.4 0 135.85 45
STRIP LeftWall_917 13 13 16 0.4 0 139.29 45
STRIP LeftWall_917 13 13 16.4 0.4 0 142.73 45
STRIP LeftWall_917 13 13 16.8 0.4 0 146.17 45
STRIP LeftWall_917 13 13 17.2 0.4 0 149.61 45
STRIP LeftWall_917 13 13 17.6 0.4 0 153.04 45
STRIP LeftWall_917 13 13 18 0.4 0 156.48 45
STRIP LeftWall_917 13 13 18.4 0.4 0 159.92 45
STRIP LeftWall_917 13 13 18.8 0.4 0 163.36 45
STRIP LeftWall_917 13 13 19.2 0.4 0 166.8 45
STRIP LeftWall_917 13 13 19.6 0.4 0 170.24 45
STRIP LeftWall_917 13 13 20 0.4 0 173.68 45
STRIP LeftWall_917 13 13 20.4 0.4 0 177.12 45
STRIP LeftWall_917 13 13 20.8 0.4 0 180.56 45
STRIP LeftWall_917 13 13 21.2 0.4 0 184 45
STRIP LeftWall_917 13 13 21.6 0.4 0 187.44 45
STRIP LeftWall_917 13 13 22 0.4 0 190.88 45
STRIP LeftWall_917 13 13 22.4 0.4 0 194.31 45
STRIP LeftWall_917 13 13 22.8 0.4 0 197.75 45
STRIP LeftWall_917 13 13 23.2 0.4 0 201.19 45
STRIP LeftWall_917 13 13 23.6 0.4 0 204.63 45
STRIP LeftWall_917 13 13 24 0.4 0 208.07 45
STRIP LeftWall_917 13 13 24.4 0.4 0 211.51 45
STRIP LeftWall_917 13 13 24.8 0.4 0 214.95 45
STRIP LeftWall_917 13 13 25.2 0.4 0 218.39 45
STRIP LeftWall_917 13 13 25.6 0.4 0 221.83 45
STRIP LeftWall_917 13 13 26 0.4 0 225.27 45
STRIP LeftWall_917 13 13 26.4 0.4 0 228.71 45
STRIP LeftWall_917 13 13 26.8 0.4 0 232.15 45
STRIP LeftWall_917 13 13 27.2 0.4 0 235.59 45
STRIP LeftWall_917 13 13 27.6 0.4 0 239.02 45
STRIP LeftWall_917 13 13 28 0.4 0 242.46 45
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STRIP LeftWall_917 13 13 29.6 0.4 0 256.22 45
STRIP LeftWall_917 14 14 0 0.4 0 1.7196 45
STRIP LeftWall_917 14 14 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 14 14 0.8 0.4 0 8.598 45
STRIP LeftWall_917 14 14 1.2 0.4 0 12.037 45
STRIP LeftWall_917 14 14 1.6 0.4 0 15.476 45
STRIP LeftWall_917 14 14 2 0.4 0 18.916 45
STRIP LeftWall_917 14 14 2.4 0.4 0 22.355 45
STRIP LeftWall_917 14 14 2.8 0.4 0 25.794 45
STRIP LeftWall_917 14 14 3.2 0.4 0 29.233 45
STRIP LeftWall_917 14 14 3.6 0.4 0 32.672 45
STRIP LeftWall_917 14 14 4 0.4 0 36.112 45
STRIP LeftWall_917 14 14 4.4 0.4 0 39.551 45
STRIP LeftWall_917 14 14 4.8 0.4 0 42.99 45
STRIP LeftWall_917 14 14 5.2 0.4 0 46.429 45
STRIP LeftWall_917 14 14 5.6 0.4 0 49.868 45
STRIP LeftWall_917 14 14 6 0.4 0 53.308 45
STRIP LeftWall_917 14 14 6.4 0.4 0 56.747 45
STRIP LeftWall_917 14 14 6.8 0.4 0 60.186 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 14 14 7.2 0.4 0 63.625 45
STRIP LeftWall_917 14 14 7.6 0.4 0 67.064 45
STRIP LeftWall_917 14 14 8 0.4 0 70.504 45
STRIP LeftWall_917 14 14 8.4 0.4 0 73.943 45
STRIP LeftWall_917 14 14 8.8 0.4 0 77.382 45
STRIP LeftWall_917 14 14 9.2 0.4 0 80.821 45
STRIP LeftWall_917 14 14 9.6 0.4 0 84.26 45
STRIP LeftWall_917 14 14 10 0.4 0 87.7 45
STRIP LeftWall_917 14 14 10.4 0.4 0 91.139 45
STRIP LeftWall_917 14 14 10.8 0.4 0 94.578 45
STRIP LeftWall_917 14 14 11.2 0.4 0 98.017 45
STRIP LeftWall_917 14 14 11.6 0.4 0 101.46 45
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STRIP LeftWall_917 14 14 13.6 0.4 0 118.65 45
STRIP LeftWall_917 14 14 14 0.4 0 122.09 45
STRIP LeftWall_917 14 14 14.4 0.4 0 125.53 45
STRIP LeftWall_917 14 14 14.8 0.4 0 128.97 45
STRIP LeftWall_917 14 14 15.2 0.4 0 132.41 45
STRIP LeftWall_917 14 14 15.6 0.4 0 135.85 45
STRIP LeftWall_917 14 14 16 0.4 0 139.29 45
STRIP LeftWall_917 14 14 16.4 0.4 0 142.73 45
STRIP LeftWall_917 14 14 16.8 0.4 0 146.17 45
STRIP LeftWall_917 14 14 17.2 0.4 0 149.61 45
STRIP LeftWall_917 14 14 17.6 0.4 0 153.04 45
STRIP LeftWall_917 14 14 18 0.4 0 156.48 45
STRIP LeftWall_917 14 14 18.4 0.4 0 159.92 45
STRIP LeftWall_917 14 14 18.8 0.4 0 163.36 45
STRIP LeftWall_917 14 14 19.2 0.4 0 166.8 45
STRIP LeftWall_917 14 14 19.6 0.4 0 170.24 45
STRIP LeftWall_917 14 14 20 0.4 0 173.68 45
STRIP LeftWall_917 14 14 20.4 0.4 0 177.12 45
STRIP LeftWall_917 14 14 20.8 0.4 0 180.56 45
STRIP LeftWall_917 14 14 21.2 0.4 0 184 45
STRIP LeftWall_917 14 14 21.6 0.4 0 187.44 45
STRIP LeftWall_917 14 14 22 0.4 0 190.88 45
STRIP LeftWall_917 14 14 22.4 0.4 0 194.31 45
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STRIP LeftWall_917 14 14 24 0.4 0 208.07 45
STRIP LeftWall_917 14 14 24.4 0.4 0 211.51 45
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STRIP LeftWall_917 14 14 27.2 0.4 0 235.59 45
STRIP LeftWall_917 14 14 27.6 0.4 0 239.02 45
STRIP LeftWall_917 14 14 28 0.4 0 242.46 45
STRIP LeftWall_917 14 14 28.4 0.4 0 245.9 45
STRIP LeftWall_917 14 14 28.8 0.4 0 249.34 45
STRIP LeftWall_917 14 14 29.2 0.4 0 252.78 45
STRIP LeftWall_917 14 14 29.6 0.4 0 256.22 45

* 7: Defining Steps

STEP Stepn.0Condizioniniziali_924
CHANGE Coltredestrittica_2_905_L_0 U-FRICT=30 LeftWall_917
CHANGE Coltredestrittica_2_905_L_0 D-FRICT=30 LeftWall_917
CHANGE Coltredestrittica_2_905_L_0 U-KA=0.333 LeftWall_917
CHANGE Coltredestrittica_2_905_L_0 U-KP=4.288 LeftWall_917
CHANGE Coltredestrittica_2_905_L_0 D-KA=0.333 LeftWall_917
CHANGE Coltredestrittica_2_905_L_0 D-KP=4.288 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KP=5.879 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KP=5.879 LeftWall_917
CHANGE Coltredestrittica_2_905_L_0 U-COHE=0 LeftWall_917
CHANGE Coltredestrittica_2_905_L_0 U-ADHES=0 LeftWall_917
CHANGE Coltredestrittica_2_905_L_0 D-COHE=0 LeftWall_917
CHANGE Coltredestrittica_2_905_L_0 D-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-ADHES=0 LeftWall_917
SETWALL LeftWall_917
GEOM 0 0
SURCHARGE 0 0 0 0
WATER -30 0 -18 0 0
ADD LeftWallElement_1092

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



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Progetto Esecutivo**

VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.1Fasediscavo1-Fase1_935
SETWALL LeftWall_917
GEOM 0 -3.8
SURCHARGE 0 0 0 -3.5
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.2Fasediscavo1-Fase2_953
SETWALL LeftWall_917
GEOM 0 -3.8
SURCHARGE 0 0 0 -3.5
WATER -30 0 -18 0 0
ADD Tirantiesistenti+591.00_965
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.3Fasediscavo2-Fase1_973
SETWALL LeftWall_917
GEOM 0 -7.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.4Fasediscavo2-Fase2_991
SETWALL LeftWall_917
GEOM 0 -7.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
ADD Tirantiesistenti+587.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.5Fasediscavo3-Fase1_7442
SETWALL LeftWall_917
GEOM 0 -10.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.6Fasediscavo3-Fase2_8893
SETWALL LeftWall_917
GEOM 0 -10.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
ADD Tirantiesistenti+584.00_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.7Fasefinalediscavoes_1011
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.8Primotirantenuovo_1029
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
ADD TirantinuoviT1_3735
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.9Secondotirantenuovo_1049
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
ADD TirantinuoviT2_10346
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.10Terzotirantenuovo_10348
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



```
ADD TirantinuovIT3_10599
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage11Rilasciotirantiesis_3737
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
REMOVE Tirantiesistenti+591.00_965 Tirantiesistenti+587.00_1003
REMOVE Tirantiesistenti+584.00_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage12Scavodiprogetto_98268
SETWALL LeftWall_917
GEOM 0 -14.5
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage13Sisma_100691
SETWALL LeftWall_917
GEOM 0 -14.5
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
** SUBINCREMENT LOGIC - active since June 2019
  SUBINCREMENTS 2
ENDSTEP
```

11.4 Design Assumption : NTC2018: A2+M2+R1 - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: NTC2018: A2+M2+R1
* Time:mercoledì 14 dicembre 2022 10:36:08
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_917 0 -18 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_917 -18 0 1 0
SOIL 0_R LeftWall_917 -18 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Coltredetrifica_2_905_L_0)
*
LDATA Coltredetrifica_2_905_L_0 30 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 18 10 10
PERMEABILITY 1E-05
RESISTANCE 0 30 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 30000 48000
ENDDL
*
* Soil Profile (Marnaarenacea_8_906_L_0)
*
LDATA Marnaarenacea_8_906_L_0 -3 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 21 13 10
PERMEABILITY 0.0001
RESISTANCE 100 35 0 0 0
TZDATA LINEAR 20000 0 30 0.5 0
KSCALE 0 0
YOUNG 1E+06 1.6E+06
ENDDL

* 5: Defining structural materials
* Rebar material: 54 Name=Strands 270 ksi E=200100000 kPa
MATERIAL Strands270ksi_54 2.001E+08
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

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Progetto Esecutivo**

* Concrete material: 1093 Name=C20/25 E=29962000 kPa
MATERIAL C2025_1093 2.9962E+07
* Steel material: 43 Name=Fe510 E=206000200 kPa
MATERIAL Fe510_43 2.06E+08

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later
BEAM LeftWallElement_1092 LeftWall_917 -18 0 Fe510_43 0.080792 0.018495 4.3946E-05 1.4241 00 00 0

* 6.2: Supports
WIRE Tirantiesistenti+591.00_965 LeftWall_917 -3.3 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+587.00_1003 LeftWall_917 -7.3 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+584.00_3643 LeftWall_917 -10.3 Strands270ksi_54 1.9501E-05 62.5 15 0 0
WIRE TirantinuoviT1_3735 LeftWall_917 -1.8 Strands270ksi_54 1.611E-05 62.5 15 0 0
WIRE TirantinuoviT2_10346 LeftWall_917 -5.3 Strands270ksi_54 1.611E-05 62.5 15 0 0
WIRE TirantinuoviT3_10599 LeftWall_917 -12.3 Strands270ksi_54 1.9501E-05 62.5 15 0 0

* 6.3: Strips

* (slope contribution)
STRIP LeftWall_917 1 1 0 0.4 0 1.7196 45
STRIP LeftWall_917 1 1 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 1 1 0.8 0.4 0 8.598 45
STRIP LeftWall_917 1 1 1.2 0.4 0 12.037 45
STRIP LeftWall_917 1 1 1.6 0.4 0 15.476 45
STRIP LeftWall_917 1 1 2 0.4 0 18.916 45
STRIP LeftWall_917 1 1 2.4 0.4 0 22.355 45
STRIP LeftWall_917 1 1 2.8 0.4 0 25.794 45
STRIP LeftWall_917 1 1 3.2 0.4 0 29.233 45
STRIP LeftWall_917 1 1 3.6 0.4 0 32.672 45
STRIP LeftWall_917 1 1 4 0.4 0 36.112 45
STRIP LeftWall_917 1 1 4.4 0.4 0 39.551 45
STRIP LeftWall_917 1 1 4.8 0.4 0 42.99 45
STRIP LeftWall_917 1 1 5.2 0.4 0 46.429 45
STRIP LeftWall_917 1 1 5.6 0.4 0 49.868 45
STRIP LeftWall_917 1 1 6 0.4 0 53.308 45
STRIP LeftWall_917 1 1 6.4 0.4 0 56.747 45
STRIP LeftWall_917 1 1 6.8 0.4 0 60.186 45
STRIP LeftWall_917 1 1 7.2 0.4 0 63.625 45
STRIP LeftWall_917 1 1 7.6 0.4 0 67.064 45
STRIP LeftWall_917 1 1 8 0.4 0 70.504 45
STRIP LeftWall_917 1 1 8.4 0.4 0 73.943 45
STRIP LeftWall_917 1 1 8.8 0.4 0 77.382 45
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STRIP LeftWall_917 1 1 10.4 0.4 0 91.139 45
STRIP LeftWall_917 1 1 10.8 0.4 0 94.578 45
STRIP LeftWall_917 1 1 11.2 0.4 0 98.017 45
STRIP LeftWall_917 1 1 11.6 0.4 0 101.46 45
STRIP LeftWall_917 1 1 12 0.4 0 104.9 45
STRIP LeftWall_917 1 1 12.4 0.4 0 108.33 45
STRIP LeftWall_917 1 1 12.8 0.4 0 111.77 45
STRIP LeftWall_917 1 1 13.2 0.4 0 115.21 45
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STRIP LeftWall_917 1 1 14 0.4 0 122.09 45
STRIP LeftWall_917 1 1 14.4 0.4 0 125.53 45
STRIP LeftWall_917 1 1 14.8 0.4 0 128.97 45
STRIP LeftWall_917 1 1 15.2 0.4 0 132.41 45
STRIP LeftWall_917 1 1 15.6 0.4 0 135.85 45
STRIP LeftWall_917 1 1 16 0.4 0 139.29 45
STRIP LeftWall_917 1 1 16.4 0.4 0 142.73 45
STRIP LeftWall_917 1 1 16.8 0.4 0 146.17 45
STRIP LeftWall_917 1 1 17.2 0.4 0 149.61 45
STRIP LeftWall_917 1 1 17.6 0.4 0 153.04 45
STRIP LeftWall_917 1 1 18 0.4 0 156.48 45
STRIP LeftWall_917 1 1 18.4 0.4 0 159.92 45
STRIP LeftWall_917 1 1 18.8 0.4 0 163.36 45
STRIP LeftWall_917 1 1 19.2 0.4 0 166.8 45
STRIP LeftWall_917 1 1 19.6 0.4 0 170.24 45
STRIP LeftWall_917 1 1 20 0.4 0 173.68 45
STRIP LeftWall_917 1 1 20.4 0.4 0 177.12 45
STRIP LeftWall_917 1 1 20.8 0.4 0 180.56 45
STRIP LeftWall_917 1 1 21.2 0.4 0 184 45
STRIP LeftWall_917 1 1 21.6 0.4 0 187.44 45
STRIP LeftWall_917 1 1 22 0.4 0 190.88 45
STRIP LeftWall_917 1 1 22.4 0.4 0 194.31 45
STRIP LeftWall_917 1 1 22.8 0.4 0 197.75 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 1 1 23.2 0.4 0 201.19 45
STRIP LeftWall_917 1 1 23.6 0.4 0 204.63 45
STRIP LeftWall_917 1 1 24 0.4 0 208.07 45
STRIP LeftWall_917 1 1 24.4 0.4 0 211.51 45
STRIP LeftWall_917 1 1 24.8 0.4 0 214.95 45
STRIP LeftWall_917 1 1 25.2 0.4 0 218.39 45
STRIP LeftWall_917 1 1 25.6 0.4 0 221.83 45
STRIP LeftWall_917 1 1 26 0.4 0 225.27 45
STRIP LeftWall_917 1 1 26.4 0.4 0 228.71 45
STRIP LeftWall_917 1 1 26.8 0.4 0 232.15 45
STRIP LeftWall_917 1 1 27.2 0.4 0 235.59 45
STRIP LeftWall_917 1 1 27.6 0.4 0 239.02 45
STRIP LeftWall_917 1 1 28 0.4 0 242.46 45
STRIP LeftWall_917 1 1 28.4 0.4 0 245.9 45
STRIP LeftWall_917 1 1 28.8 0.4 0 249.34 45
STRIP LeftWall_917 1 1 29.2 0.4 0 252.78 45
STRIP LeftWall_917 1 1 29.6 0.4 0 256.22 45
STRIP LeftWall_917 2 2 0 0.4 0 1.7196 45
STRIP LeftWall_917 2 2 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 2 2 0.8 0.4 0 8.598 45
STRIP LeftWall_917 2 2 1.2 0.4 0 12.037 45
STRIP LeftWall_917 2 2 1.6 0.4 0 15.476 45
STRIP LeftWall_917 2 2 2 0.4 0 18.916 45
STRIP LeftWall_917 2 2 2.4 0.4 0 22.355 45
STRIP LeftWall_917 2 2 2.8 0.4 0 25.794 45
STRIP LeftWall_917 2 2 3.2 0.4 0 29.233 45
STRIP LeftWall_917 2 2 3.6 0.4 0 32.672 45
STRIP LeftWall_917 2 2 4 0.4 0 36.112 45
STRIP LeftWall_917 2 2 4.4 0.4 0 39.551 45
STRIP LeftWall_917 2 2 4.8 0.4 0 42.99 45
STRIP LeftWall_917 2 2 5.2 0.4 0 46.429 45
STRIP LeftWall_917 2 2 5.6 0.4 0 49.868 45
STRIP LeftWall_917 2 2 6 0.4 0 53.308 45
STRIP LeftWall_917 2 2 6.4 0.4 0 56.747 45
STRIP LeftWall_917 2 2 6.8 0.4 0 60.186 45
STRIP LeftWall_917 2 2 7.2 0.4 0 63.625 45
STRIP LeftWall_917 2 2 7.6 0.4 0 67.064 45
STRIP LeftWall_917 2 2 8 0.4 0 70.504 45
STRIP LeftWall_917 2 2 8.4 0.4 0 73.943 45
STRIP LeftWall_917 2 2 8.8 0.4 0 77.382 45
STRIP LeftWall_917 2 2 9.2 0.4 0 80.821 45
STRIP LeftWall_917 2 2 9.6 0.4 0 84.26 45
STRIP LeftWall_917 2 2 10 0.4 0 87.7 45
STRIP LeftWall_917 2 2 10.4 0.4 0 91.139 45
STRIP LeftWall_917 2 2 10.8 0.4 0 94.578 45
STRIP LeftWall_917 2 2 11.2 0.4 0 98.017 45
STRIP LeftWall_917 2 2 11.6 0.4 0 101.46 45
STRIP LeftWall_917 2 2 12 0.4 0 104.9 45
STRIP LeftWall_917 2 2 12.4 0.4 0 108.33 45
STRIP LeftWall_917 2 2 12.8 0.4 0 111.77 45
STRIP LeftWall_917 2 2 13.2 0.4 0 115.21 45
STRIP LeftWall_917 2 2 13.6 0.4 0 118.65 45
STRIP LeftWall_917 2 2 14 0.4 0 122.09 45
STRIP LeftWall_917 2 2 14.4 0.4 0 125.53 45
STRIP LeftWall_917 2 2 14.8 0.4 0 128.97 45
STRIP LeftWall_917 2 2 15.2 0.4 0 132.41 45
STRIP LeftWall_917 2 2 15.6 0.4 0 135.85 45
STRIP LeftWall_917 2 2 16 0.4 0 139.29 45
STRIP LeftWall_917 2 2 16.4 0.4 0 142.73 45
STRIP LeftWall_917 2 2 16.8 0.4 0 146.17 45
STRIP LeftWall_917 2 2 17.2 0.4 0 149.61 45
STRIP LeftWall_917 2 2 17.6 0.4 0 153.04 45
STRIP LeftWall_917 2 2 18 0.4 0 156.48 45
STRIP LeftWall_917 2 2 18.4 0.4 0 159.92 45
STRIP LeftWall_917 2 2 18.8 0.4 0 163.36 45
STRIP LeftWall_917 2 2 19.2 0.4 0 166.8 45
STRIP LeftWall_917 2 2 19.6 0.4 0 170.24 45
STRIP LeftWall_917 2 2 20 0.4 0 173.68 45
STRIP LeftWall_917 2 2 20.4 0.4 0 177.12 45
STRIP LeftWall_917 2 2 20.8 0.4 0 180.56 45
STRIP LeftWall_917 2 2 21.2 0.4 0 184 45
STRIP LeftWall_917 2 2 21.6 0.4 0 187.44 45
STRIP LeftWall_917 2 2 22 0.4 0 190.88 45
STRIP LeftWall_917 2 2 22.4 0.4 0 194.31 45
STRIP LeftWall_917 2 2 22.8 0.4 0 197.75 45
STRIP LeftWall_917 2 2 23.2 0.4 0 201.19 45
STRIP LeftWall_917 2 2 23.6 0.4 0 204.63 45
STRIP LeftWall_917 2 2 24 0.4 0 208.07 45
STRIP LeftWall_917 2 2 24.4 0.4 0 211.51 45
STRIP LeftWall_917 2 2 24.8 0.4 0 214.95 45
STRIP LeftWall_917 2 2 25.2 0.4 0 218.39 45
STRIP LeftWall_917 2 2 25.6 0.4 0 221.83 45
STRIP LeftWall_917 2 2 26 0.4 0 225.27 45
STRIP LeftWall_917 2 2 26.4 0.4 0 228.71 45
STRIP LeftWall_917 2 2 26.8 0.4 0 232.15 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917	2	2	27.2	0.4	0	235.59	45
STRIP LeftWall_917	2	2	27.6	0.4	0	239.02	45
STRIP LeftWall_917	2	2	28	0.4	0	242.46	45
STRIP LeftWall_917	2	2	28.4	0.4	0	245.9	45
STRIP LeftWall_917	2	2	28.8	0.4	0	249.34	45
STRIP LeftWall_917	2	2	29.2	0.4	0	252.78	45
STRIP LeftWall_917	2	2	29.6	0.4	0	256.22	45
STRIP LeftWall_917	3	3	0	0.4	0	1.7196	45
STRIP LeftWall_917	3	3	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	3	3	0.8	0.4	0	8.598	45
STRIP LeftWall_917	3	3	1.2	0.4	0	12.037	45
STRIP LeftWall_917	3	3	1.6	0.4	0	15.476	45
STRIP LeftWall_917	3	3	2	0.4	0	18.916	45
STRIP LeftWall_917	3	3	2.4	0.4	0	22.355	45
STRIP LeftWall_917	3	3	2.8	0.4	0	25.794	45
STRIP LeftWall_917	3	3	3.2	0.4	0	29.233	45
STRIP LeftWall_917	3	3	3.6	0.4	0	32.672	45
STRIP LeftWall_917	3	3	4	0.4	0	36.112	45
STRIP LeftWall_917	3	3	4.4	0.4	0	39.551	45
STRIP LeftWall_917	3	3	4.8	0.4	0	42.99	45
STRIP LeftWall_917	3	3	5.2	0.4	0	46.429	45
STRIP LeftWall_917	3	3	5.6	0.4	0	49.868	45
STRIP LeftWall_917	3	3	6	0.4	0	53.308	45
STRIP LeftWall_917	3	3	6.4	0.4	0	56.747	45
STRIP LeftWall_917	3	3	6.8	0.4	0	60.186	45
STRIP LeftWall_917	3	3	7.2	0.4	0	63.625	45
STRIP LeftWall_917	3	3	7.6	0.4	0	67.064	45
STRIP LeftWall_917	3	3	8	0.4	0	70.504	45
STRIP LeftWall_917	3	3	8.4	0.4	0	73.943	45
STRIP LeftWall_917	3	3	8.8	0.4	0	77.382	45
STRIP LeftWall_917	3	3	9.2	0.4	0	80.821	45
STRIP LeftWall_917	3	3	9.6	0.4	0	84.26	45
STRIP LeftWall_917	3	3	10	0.4	0	87.7	45
STRIP LeftWall_917	3	3	10.4	0.4	0	91.139	45
STRIP LeftWall_917	3	3	10.8	0.4	0	94.578	45
STRIP LeftWall_917	3	3	11.2	0.4	0	98.017	45
STRIP LeftWall_917	3	3	11.6	0.4	0	101.46	45
STRIP LeftWall_917	3	3	12	0.4	0	104.9	45
STRIP LeftWall_917	3	3	12.4	0.4	0	108.33	45
STRIP LeftWall_917	3	3	12.8	0.4	0	111.77	45
STRIP LeftWall_917	3	3	13.2	0.4	0	115.21	45
STRIP LeftWall_917	3	3	13.6	0.4	0	118.65	45
STRIP LeftWall_917	3	3	14	0.4	0	122.09	45
STRIP LeftWall_917	3	3	14.4	0.4	0	125.53	45
STRIP LeftWall_917	3	3	14.8	0.4	0	128.97	45
STRIP LeftWall_917	3	3	15.2	0.4	0	132.41	45
STRIP LeftWall_917	3	3	15.6	0.4	0	135.85	45
STRIP LeftWall_917	3	3	16	0.4	0	139.29	45
STRIP LeftWall_917	3	3	16.4	0.4	0	142.73	45
STRIP LeftWall_917	3	3	16.8	0.4	0	146.17	45
STRIP LeftWall_917	3	3	17.2	0.4	0	149.61	45
STRIP LeftWall_917	3	3	17.6	0.4	0	153.04	45
STRIP LeftWall_917	3	3	18	0.4	0	156.48	45
STRIP LeftWall_917	3	3	18.4	0.4	0	159.92	45
STRIP LeftWall_917	3	3	18.8	0.4	0	163.36	45
STRIP LeftWall_917	3	3	19.2	0.4	0	166.8	45
STRIP LeftWall_917	3	3	19.6	0.4	0	170.24	45
STRIP LeftWall_917	3	3	20	0.4	0	173.68	45
STRIP LeftWall_917	3	3	20.4	0.4	0	177.12	45
STRIP LeftWall_917	3	3	20.8	0.4	0	180.56	45
STRIP LeftWall_917	3	3	21.2	0.4	0	184	45
STRIP LeftWall_917	3	3	21.6	0.4	0	187.44	45
STRIP LeftWall_917	3	3	22	0.4	0	190.88	45
STRIP LeftWall_917	3	3	22.4	0.4	0	194.31	45
STRIP LeftWall_917	3	3	22.8	0.4	0	197.75	45
STRIP LeftWall_917	3	3	23.2	0.4	0	201.19	45
STRIP LeftWall_917	3	3	23.6	0.4	0	204.63	45
STRIP LeftWall_917	3	3	24	0.4	0	208.07	45
STRIP LeftWall_917	3	3	24.4	0.4	0	211.51	45
STRIP LeftWall_917	3	3	24.8	0.4	0	214.95	45
STRIP LeftWall_917	3	3	25.2	0.4	0	218.39	45
STRIP LeftWall_917	3	3	25.6	0.4	0	221.83	45
STRIP LeftWall_917	3	3	26	0.4	0	225.27	45
STRIP LeftWall_917	3	3	26.4	0.4	0	228.71	45
STRIP LeftWall_917	3	3	26.8	0.4	0	232.15	45
STRIP LeftWall_917	3	3	27.2	0.4	0	235.59	45
STRIP LeftWall_917	3	3	27.6	0.4	0	239.02	45
STRIP LeftWall_917	3	3	28	0.4	0	242.46	45
STRIP LeftWall_917	3	3	28.4	0.4	0	245.9	45
STRIP LeftWall_917	3	3	28.8	0.4	0	249.34	45
STRIP LeftWall_917	3	3	29.2	0.4	0	252.78	45
STRIP LeftWall_917	3	3	29.6	0.4	0	256.22	45
STRIP LeftWall_917	4	4	0	0.4	0	1.7196	45
STRIP LeftWall_917	4	4	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	4	4	0.8	0.4	0	8.598	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917	4	4	1.2	0.4	0	12.037	45
STRIP LeftWall_917	4	4	1.6	0.4	0	15.476	45
STRIP LeftWall_917	4	4	2.0	0.4	0	18.916	45
STRIP LeftWall_917	4	4	2.4	0.4	0	22.355	45
STRIP LeftWall_917	4	4	2.8	0.4	0	25.794	45
STRIP LeftWall_917	4	4	3.2	0.4	0	29.233	45
STRIP LeftWall_917	4	4	3.6	0.4	0	32.672	45
STRIP LeftWall_917	4	4	4.0	0.4	0	36.112	45
STRIP LeftWall_917	4	4	4.4	0.4	0	39.551	45
STRIP LeftWall_917	4	4	4.8	0.4	0	42.99	45
STRIP LeftWall_917	4	4	5.2	0.4	0	46.429	45
STRIP LeftWall_917	4	4	5.6	0.4	0	49.868	45
STRIP LeftWall_917	4	4	6.0	0.4	0	53.308	45
STRIP LeftWall_917	4	4	6.4	0.4	0	56.747	45
STRIP LeftWall_917	4	4	6.8	0.4	0	60.186	45
STRIP LeftWall_917	4	4	7.2	0.4	0	63.625	45
STRIP LeftWall_917	4	4	7.6	0.4	0	67.064	45
STRIP LeftWall_917	4	4	8.0	0.4	0	70.504	45
STRIP LeftWall_917	4	4	8.4	0.4	0	73.943	45
STRIP LeftWall_917	4	4	8.8	0.4	0	77.382	45
STRIP LeftWall_917	4	4	9.2	0.4	0	80.821	45
STRIP LeftWall_917	4	4	9.6	0.4	0	84.26	45
STRIP LeftWall_917	4	4	10.0	0.4	0	87.7	45
STRIP LeftWall_917	4	4	10.4	0.4	0	91.139	45
STRIP LeftWall_917	4	4	10.8	0.4	0	94.578	45
STRIP LeftWall_917	4	4	11.2	0.4	0	98.017	45
STRIP LeftWall_917	4	4	11.6	0.4	0	101.46	45
STRIP LeftWall_917	4	4	12.0	0.4	0	104.9	45
STRIP LeftWall_917	4	4	12.4	0.4	0	108.33	45
STRIP LeftWall_917	4	4	12.8	0.4	0	111.77	45
STRIP LeftWall_917	4	4	13.2	0.4	0	115.21	45
STRIP LeftWall_917	4	4	13.6	0.4	0	118.65	45
STRIP LeftWall_917	4	4	14.0	0.4	0	122.09	45
STRIP LeftWall_917	4	4	14.4	0.4	0	125.53	45
STRIP LeftWall_917	4	4	14.8	0.4	0	128.97	45
STRIP LeftWall_917	4	4	15.2	0.4	0	132.41	45
STRIP LeftWall_917	4	4	15.6	0.4	0	135.85	45
STRIP LeftWall_917	4	4	16.0	0.4	0	139.29	45
STRIP LeftWall_917	4	4	16.4	0.4	0	142.73	45
STRIP LeftWall_917	4	4	16.8	0.4	0	146.17	45
STRIP LeftWall_917	4	4	17.2	0.4	0	149.61	45
STRIP LeftWall_917	4	4	17.6	0.4	0	153.04	45
STRIP LeftWall_917	4	4	18.0	0.4	0	156.48	45
STRIP LeftWall_917	4	4	18.4	0.4	0	159.92	45
STRIP LeftWall_917	4	4	18.8	0.4	0	163.36	45
STRIP LeftWall_917	4	4	19.2	0.4	0	166.8	45
STRIP LeftWall_917	4	4	19.6	0.4	0	170.24	45
STRIP LeftWall_917	4	4	20.0	0.4	0	173.68	45
STRIP LeftWall_917	4	4	20.4	0.4	0	177.12	45
STRIP LeftWall_917	4	4	20.8	0.4	0	180.56	45
STRIP LeftWall_917	4	4	21.2	0.4	0	184	45
STRIP LeftWall_917	4	4	21.6	0.4	0	187.44	45
STRIP LeftWall_917	4	4	22.0	0.4	0	190.88	45
STRIP LeftWall_917	4	4	22.4	0.4	0	194.31	45
STRIP LeftWall_917	4	4	22.8	0.4	0	197.75	45
STRIP LeftWall_917	4	4	23.2	0.4	0	201.19	45
STRIP LeftWall_917	4	4	23.6	0.4	0	204.63	45
STRIP LeftWall_917	4	4	24.0	0.4	0	208.07	45
STRIP LeftWall_917	4	4	24.4	0.4	0	211.51	45
STRIP LeftWall_917	4	4	24.8	0.4	0	214.95	45
STRIP LeftWall_917	4	4	25.2	0.4	0	218.39	45
STRIP LeftWall_917	4	4	25.6	0.4	0	221.83	45
STRIP LeftWall_917	4	4	26.0	0.4	0	225.27	45
STRIP LeftWall_917	4	4	26.4	0.4	0	228.71	45
STRIP LeftWall_917	4	4	26.8	0.4	0	232.15	45
STRIP LeftWall_917	4	4	27.2	0.4	0	235.59	45
STRIP LeftWall_917	4	4	27.6	0.4	0	239.02	45
STRIP LeftWall_917	4	4	28.0	0.4	0	242.46	45
STRIP LeftWall_917	4	4	28.4	0.4	0	245.9	45
STRIP LeftWall_917	4	4	28.8	0.4	0	249.34	45
STRIP LeftWall_917	4	4	29.2	0.4	0	252.78	45
STRIP LeftWall_917	4	4	29.6	0.4	0	256.22	45
STRIP LeftWall_917	5	5	0.0	0.4	0	1.7196	45
STRIP LeftWall_917	5	5	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	5	5	0.8	0.4	0	8.598	45
STRIP LeftWall_917	5	5	1.2	0.4	0	12.037	45
STRIP LeftWall_917	5	5	1.6	0.4	0	15.476	45
STRIP LeftWall_917	5	5	2.0	0.4	0	18.916	45
STRIP LeftWall_917	5	5	2.4	0.4	0	22.355	45
STRIP LeftWall_917	5	5	2.8	0.4	0	25.794	45
STRIP LeftWall_917	5	5	3.2	0.4	0	29.233	45
STRIP LeftWall_917	5	5	3.6	0.4	0	32.672	45
STRIP LeftWall_917	5	5	4.0	0.4	0	36.112	45
STRIP LeftWall_917	5	5	4.4	0.4	0	39.551	45
STRIP LeftWall_917	5	5	4.8	0.4	0	42.99	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 5 5 5.2 0.4 0 46.429 45
STRIP LeftWall_917 5 5 5.6 0.4 0 49.868 45
STRIP LeftWall_917 5 5 6 0.4 0 53.308 45
STRIP LeftWall_917 5 5 6.4 0.4 0 56.747 45
STRIP LeftWall_917 5 5 6.8 0.4 0 60.186 45
STRIP LeftWall_917 5 5 7.2 0.4 0 63.625 45
STRIP LeftWall_917 5 5 7.6 0.4 0 67.064 45
STRIP LeftWall_917 5 5 8 0.4 0 70.504 45
STRIP LeftWall_917 5 5 8.4 0.4 0 73.943 45
STRIP LeftWall_917 5 5 8.8 0.4 0 77.382 45
STRIP LeftWall_917 5 5 9.2 0.4 0 80.821 45
STRIP LeftWall_917 5 5 9.6 0.4 0 84.26 45
STRIP LeftWall_917 5 5 10 0.4 0 87.7 45
STRIP LeftWall_917 5 5 10.4 0.4 0 91.139 45
STRIP LeftWall_917 5 5 10.8 0.4 0 94.578 45
STRIP LeftWall_917 5 5 11.2 0.4 0 98.017 45
STRIP LeftWall_917 5 5 11.6 0.4 0 101.46 45
STRIP LeftWall_917 5 5 12 0.4 0 104.9 45
STRIP LeftWall_917 5 5 12.4 0.4 0 108.33 45
STRIP LeftWall_917 5 5 12.8 0.4 0 111.77 45
STRIP LeftWall_917 5 5 13.2 0.4 0 115.21 45
STRIP LeftWall_917 5 5 13.6 0.4 0 118.65 45
STRIP LeftWall_917 5 5 14 0.4 0 122.09 45
STRIP LeftWall_917 5 5 14.4 0.4 0 125.53 45
STRIP LeftWall_917 5 5 14.8 0.4 0 128.97 45
STRIP LeftWall_917 5 5 15.2 0.4 0 132.41 45
STRIP LeftWall_917 5 5 15.6 0.4 0 135.85 45
STRIP LeftWall_917 5 5 16 0.4 0 139.29 45
STRIP LeftWall_917 5 5 16.4 0.4 0 142.73 45
STRIP LeftWall_917 5 5 16.8 0.4 0 146.17 45
STRIP LeftWall_917 5 5 17.2 0.4 0 149.61 45
STRIP LeftWall_917 5 5 17.6 0.4 0 153.04 45
STRIP LeftWall_917 5 5 18 0.4 0 156.48 45
STRIP LeftWall_917 5 5 18.4 0.4 0 159.92 45
STRIP LeftWall_917 5 5 18.8 0.4 0 163.36 45
STRIP LeftWall_917 5 5 19.2 0.4 0 166.8 45
STRIP LeftWall_917 5 5 19.6 0.4 0 170.24 45
STRIP LeftWall_917 5 5 20 0.4 0 173.68 45
STRIP LeftWall_917 5 5 20.4 0.4 0 177.12 45
STRIP LeftWall_917 5 5 20.8 0.4 0 180.56 45
STRIP LeftWall_917 5 5 21.2 0.4 0 184 45
STRIP LeftWall_917 5 5 21.6 0.4 0 187.44 45
STRIP LeftWall_917 5 5 22 0.4 0 190.88 45
STRIP LeftWall_917 5 5 22.4 0.4 0 194.31 45
STRIP LeftWall_917 5 5 22.8 0.4 0 197.75 45
STRIP LeftWall_917 5 5 23.2 0.4 0 201.19 45
STRIP LeftWall_917 5 5 23.6 0.4 0 204.63 45
STRIP LeftWall_917 5 5 24 0.4 0 208.07 45
STRIP LeftWall_917 5 5 24.4 0.4 0 211.51 45
STRIP LeftWall_917 5 5 24.8 0.4 0 214.95 45
STRIP LeftWall_917 5 5 25.2 0.4 0 218.39 45
STRIP LeftWall_917 5 5 25.6 0.4 0 221.83 45
STRIP LeftWall_917 5 5 26 0.4 0 225.27 45
STRIP LeftWall_917 5 5 26.4 0.4 0 228.71 45
STRIP LeftWall_917 5 5 26.8 0.4 0 232.15 45
STRIP LeftWall_917 5 5 27.2 0.4 0 235.59 45
STRIP LeftWall_917 5 5 27.6 0.4 0 239.02 45
STRIP LeftWall_917 5 5 28 0.4 0 242.46 45
STRIP LeftWall_917 5 5 28.4 0.4 0 245.9 45
STRIP LeftWall_917 5 5 28.8 0.4 0 249.34 45
STRIP LeftWall_917 5 5 29.2 0.4 0 252.78 45
STRIP LeftWall_917 5 5 29.6 0.4 0 256.22 45
STRIP LeftWall_917 6 6 0 0.4 0 1.7196 45
STRIP LeftWall_917 6 6 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 6 6 0.8 0.4 0 8.598 45
STRIP LeftWall_917 6 6 1.2 0.4 0 12.037 45
STRIP LeftWall_917 6 6 1.6 0.4 0 15.476 45
STRIP LeftWall_917 6 6 2 0.4 0 18.916 45
STRIP LeftWall_917 6 6 2.4 0.4 0 22.355 45
STRIP LeftWall_917 6 6 2.8 0.4 0 25.794 45
STRIP LeftWall_917 6 6 3.2 0.4 0 29.233 45
STRIP LeftWall_917 6 6 3.6 0.4 0 32.672 45
STRIP LeftWall_917 6 6 4 0.4 0 36.112 45
STRIP LeftWall_917 6 6 4.4 0.4 0 39.551 45
STRIP LeftWall_917 6 6 4.8 0.4 0 42.99 45
STRIP LeftWall_917 6 6 5.2 0.4 0 46.429 45
STRIP LeftWall_917 6 6 5.6 0.4 0 49.868 45
STRIP LeftWall_917 6 6 6 0.4 0 53.308 45
STRIP LeftWall_917 6 6 6.4 0.4 0 56.747 45
STRIP LeftWall_917 6 6 6.8 0.4 0 60.186 45
STRIP LeftWall_917 6 6 7.2 0.4 0 63.625 45
STRIP LeftWall_917 6 6 7.6 0.4 0 67.064 45
STRIP LeftWall_917 6 6 8 0.4 0 70.504 45
STRIP LeftWall_917 6 6 8.4 0.4 0 73.943 45
STRIP LeftWall_917 6 6 8.8 0.4 0 77.382 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 6 6 9.2 0.4 0 80.821 45
STRIP LeftWall_917 6 6 9.6 0.4 0 84.26 45
STRIP LeftWall_917 6 6 10 0.4 0 87.7 45
STRIP LeftWall_917 6 6 10.4 0.4 0 91.139 45
STRIP LeftWall_917 6 6 10.8 0.4 0 94.578 45
STRIP LeftWall_917 6 6 11.2 0.4 0 98.017 45
STRIP LeftWall_917 6 6 11.6 0.4 0 101.46 45
STRIP LeftWall_917 6 6 12 0.4 0 104.9 45
STRIP LeftWall_917 6 6 12.4 0.4 0 108.33 45
STRIP LeftWall_917 6 6 12.8 0.4 0 111.77 45
STRIP LeftWall_917 6 6 13.2 0.4 0 115.21 45
STRIP LeftWall_917 6 6 13.6 0.4 0 118.65 45
STRIP LeftWall_917 6 6 14 0.4 0 122.09 45
STRIP LeftWall_917 6 6 14.4 0.4 0 125.53 45
STRIP LeftWall_917 6 6 14.8 0.4 0 128.97 45
STRIP LeftWall_917 6 6 15.2 0.4 0 132.41 45
STRIP LeftWall_917 6 6 15.6 0.4 0 135.85 45
STRIP LeftWall_917 6 6 16 0.4 0 139.29 45
STRIP LeftWall_917 6 6 16.4 0.4 0 142.73 45
STRIP LeftWall_917 6 6 16.8 0.4 0 146.17 45
STRIP LeftWall_917 6 6 17.2 0.4 0 149.61 45
STRIP LeftWall_917 6 6 17.6 0.4 0 153.04 45
STRIP LeftWall_917 6 6 18 0.4 0 156.48 45
STRIP LeftWall_917 6 6 18.4 0.4 0 159.92 45
STRIP LeftWall_917 6 6 18.8 0.4 0 163.36 45
STRIP LeftWall_917 6 6 19.2 0.4 0 166.8 45
STRIP LeftWall_917 6 6 19.6 0.4 0 170.24 45
STRIP LeftWall_917 6 6 20 0.4 0 173.68 45
STRIP LeftWall_917 6 6 20.4 0.4 0 177.12 45
STRIP LeftWall_917 6 6 20.8 0.4 0 180.56 45
STRIP LeftWall_917 6 6 21.2 0.4 0 184 45
STRIP LeftWall_917 6 6 21.6 0.4 0 187.44 45
STRIP LeftWall_917 6 6 22 0.4 0 190.88 45
STRIP LeftWall_917 6 6 22.4 0.4 0 194.31 45
STRIP LeftWall_917 6 6 22.8 0.4 0 197.75 45
STRIP LeftWall_917 6 6 23.2 0.4 0 201.19 45
STRIP LeftWall_917 6 6 23.6 0.4 0 204.63 45
STRIP LeftWall_917 6 6 24 0.4 0 208.07 45
STRIP LeftWall_917 6 6 24.4 0.4 0 211.51 45
STRIP LeftWall_917 6 6 24.8 0.4 0 214.95 45
STRIP LeftWall_917 6 6 25.2 0.4 0 218.39 45
STRIP LeftWall_917 6 6 25.6 0.4 0 221.83 45
STRIP LeftWall_917 6 6 26 0.4 0 225.27 45
STRIP LeftWall_917 6 6 26.4 0.4 0 228.71 45
STRIP LeftWall_917 6 6 26.8 0.4 0 232.15 45
STRIP LeftWall_917 6 6 27.2 0.4 0 235.59 45
STRIP LeftWall_917 6 6 27.6 0.4 0 239.02 45
STRIP LeftWall_917 6 6 28 0.4 0 242.46 45
STRIP LeftWall_917 6 6 28.4 0.4 0 245.9 45
STRIP LeftWall_917 6 6 28.8 0.4 0 249.34 45
STRIP LeftWall_917 6 6 29.2 0.4 0 252.78 45
STRIP LeftWall_917 6 6 29.6 0.4 0 256.22 45
STRIP LeftWall_917 7 7 0 0.4 0 1.7196 45
STRIP LeftWall_917 7 7 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 7 7 0.8 0.4 0 8.598 45
STRIP LeftWall_917 7 7 1.2 0.4 0 12.037 45
STRIP LeftWall_917 7 7 1.6 0.4 0 15.476 45
STRIP LeftWall_917 7 7 2 0.4 0 18.916 45
STRIP LeftWall_917 7 7 2.4 0.4 0 22.355 45
STRIP LeftWall_917 7 7 2.8 0.4 0 25.794 45
STRIP LeftWall_917 7 7 3.2 0.4 0 29.233 45
STRIP LeftWall_917 7 7 3.6 0.4 0 32.672 45
STRIP LeftWall_917 7 7 4 0.4 0 36.112 45
STRIP LeftWall_917 7 7 4.4 0.4 0 39.551 45
STRIP LeftWall_917 7 7 4.8 0.4 0 42.99 45
STRIP LeftWall_917 7 7 5.2 0.4 0 46.429 45
STRIP LeftWall_917 7 7 5.6 0.4 0 49.868 45
STRIP LeftWall_917 7 7 6 0.4 0 53.308 45
STRIP LeftWall_917 7 7 6.4 0.4 0 56.747 45
STRIP LeftWall_917 7 7 6.8 0.4 0 60.186 45
STRIP LeftWall_917 7 7 7.2 0.4 0 63.625 45
STRIP LeftWall_917 7 7 7.6 0.4 0 67.064 45
STRIP LeftWall_917 7 7 8 0.4 0 70.504 45
STRIP LeftWall_917 7 7 8.4 0.4 0 73.943 45
STRIP LeftWall_917 7 7 8.8 0.4 0 77.382 45
STRIP LeftWall_917 7 7 9.2 0.4 0 80.821 45
STRIP LeftWall_917 7 7 9.6 0.4 0 84.26 45
STRIP LeftWall_917 7 7 10 0.4 0 87.7 45
STRIP LeftWall_917 7 7 10.4 0.4 0 91.139 45
STRIP LeftWall_917 7 7 10.8 0.4 0 94.578 45
STRIP LeftWall_917 7 7 11.2 0.4 0 98.017 45
STRIP LeftWall_917 7 7 11.6 0.4 0 101.46 45
STRIP LeftWall_917 7 7 12 0.4 0 104.9 45
STRIP LeftWall_917 7 7 12.4 0.4 0 108.33 45
STRIP LeftWall_917 7 7 12.8 0.4 0 111.77 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917 7 7 13.2 0.4 0 115.21 45
STRIP LeftWall_917 7 7 13.6 0.4 0 118.65 45
STRIP LeftWall_917 7 7 14 0.4 0 122.09 45
STRIP LeftWall_917 7 7 14.4 0.4 0 125.53 45
STRIP LeftWall_917 7 7 14.8 0.4 0 128.97 45
STRIP LeftWall_917 7 7 15.2 0.4 0 132.41 45
STRIP LeftWall_917 7 7 15.6 0.4 0 135.85 45
STRIP LeftWall_917 7 7 16 0.4 0 139.29 45
STRIP LeftWall_917 7 7 16.4 0.4 0 142.73 45
STRIP LeftWall_917 7 7 16.8 0.4 0 146.17 45
STRIP LeftWall_917 7 7 17.2 0.4 0 149.61 45
STRIP LeftWall_917 7 7 17.6 0.4 0 153.04 45
STRIP LeftWall_917 7 7 18 0.4 0 156.48 45
STRIP LeftWall_917 7 7 18.4 0.4 0 159.92 45
STRIP LeftWall_917 7 7 18.8 0.4 0 163.36 45
STRIP LeftWall_917 7 7 19.2 0.4 0 166.8 45
STRIP LeftWall_917 7 7 19.6 0.4 0 170.24 45
STRIP LeftWall_917 7 7 20 0.4 0 173.68 45
STRIP LeftWall_917 7 7 20.4 0.4 0 177.12 45
STRIP LeftWall_917 7 7 20.8 0.4 0 180.56 45
STRIP LeftWall_917 7 7 21.2 0.4 0 184 45
STRIP LeftWall_917 7 7 21.6 0.4 0 187.44 45
STRIP LeftWall_917 7 7 22 0.4 0 190.88 45
STRIP LeftWall_917 7 7 22.4 0.4 0 194.31 45
STRIP LeftWall_917 7 7 22.8 0.4 0 197.75 45
STRIP LeftWall_917 7 7 23.2 0.4 0 201.19 45
STRIP LeftWall_917 7 7 23.6 0.4 0 204.63 45
STRIP LeftWall_917 7 7 24 0.4 0 208.07 45
STRIP LeftWall_917 7 7 24.4 0.4 0 211.51 45
STRIP LeftWall_917 7 7 24.8 0.4 0 214.95 45
STRIP LeftWall_917 7 7 25.2 0.4 0 218.39 45
STRIP LeftWall_917 7 7 25.6 0.4 0 221.83 45
STRIP LeftWall_917 7 7 26 0.4 0 225.27 45
STRIP LeftWall_917 7 7 26.4 0.4 0 228.71 45
STRIP LeftWall_917 7 7 26.8 0.4 0 232.15 45
STRIP LeftWall_917 7 7 27.2 0.4 0 235.59 45
STRIP LeftWall_917 7 7 27.6 0.4 0 239.02 45
STRIP LeftWall_917 7 7 28 0.4 0 242.46 45
STRIP LeftWall_917 7 7 28.4 0.4 0 245.9 45
STRIP LeftWall_917 7 7 28.8 0.4 0 249.34 45
STRIP LeftWall_917 7 7 29.2 0.4 0 252.78 45
STRIP LeftWall_917 7 7 29.6 0.4 0 256.22 45
STRIP LeftWall_917 8 8 0 0.4 0 1.7196 45
STRIP LeftWall_917 8 8 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 8 8 0.8 0.4 0 8.598 45
STRIP LeftWall_917 8 8 1.2 0.4 0 12.037 45
STRIP LeftWall_917 8 8 1.6 0.4 0 15.476 45
STRIP LeftWall_917 8 8 2 0.4 0 18.916 45
STRIP LeftWall_917 8 8 2.4 0.4 0 22.355 45
STRIP LeftWall_917 8 8 2.8 0.4 0 25.794 45
STRIP LeftWall_917 8 8 3.2 0.4 0 29.233 45
STRIP LeftWall_917 8 8 3.6 0.4 0 32.672 45
STRIP LeftWall_917 8 8 4 0.4 0 36.112 45
STRIP LeftWall_917 8 8 4.4 0.4 0 39.551 45
STRIP LeftWall_917 8 8 4.8 0.4 0 42.99 45
STRIP LeftWall_917 8 8 5.2 0.4 0 46.429 45
STRIP LeftWall_917 8 8 5.6 0.4 0 49.868 45
STRIP LeftWall_917 8 8 6 0.4 0 53.308 45
STRIP LeftWall_917 8 8 6.4 0.4 0 56.747 45
STRIP LeftWall_917 8 8 6.8 0.4 0 60.186 45
STRIP LeftWall_917 8 8 7.2 0.4 0 63.625 45
STRIP LeftWall_917 8 8 7.6 0.4 0 67.064 45
STRIP LeftWall_917 8 8 8 0.4 0 70.504 45
STRIP LeftWall_917 8 8 8.4 0.4 0 73.943 45
STRIP LeftWall_917 8 8 8.8 0.4 0 77.382 45
STRIP LeftWall_917 8 8 9.2 0.4 0 80.821 45
STRIP LeftWall_917 8 8 9.6 0.4 0 84.26 45
STRIP LeftWall_917 8 8 10 0.4 0 87.7 45
STRIP LeftWall_917 8 8 10.4 0.4 0 91.139 45
STRIP LeftWall_917 8 8 10.8 0.4 0 94.578 45
STRIP LeftWall_917 8 8 11.2 0.4 0 98.017 45
STRIP LeftWall_917 8 8 11.6 0.4 0 101.46 45
STRIP LeftWall_917 8 8 12 0.4 0 104.9 45
STRIP LeftWall_917 8 8 12.4 0.4 0 108.33 45
STRIP LeftWall_917 8 8 12.8 0.4 0 111.77 45
STRIP LeftWall_917 8 8 13.2 0.4 0 115.21 45
STRIP LeftWall_917 8 8 13.6 0.4 0 118.65 45
STRIP LeftWall_917 8 8 14 0.4 0 122.09 45
STRIP LeftWall_917 8 8 14.4 0.4 0 125.53 45
STRIP LeftWall_917 8 8 14.8 0.4 0 128.97 45
STRIP LeftWall_917 8 8 15.2 0.4 0 132.41 45
STRIP LeftWall_917 8 8 15.6 0.4 0 135.85 45
STRIP LeftWall_917 8 8 16 0.4 0 139.29 45
STRIP LeftWall_917 8 8 16.4 0.4 0 142.73 45
STRIP LeftWall_917 8 8 16.8 0.4 0 146.17 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 8 8 17.2 0.4 0 149.61 45
STRIP LeftWall_917 8 8 17.6 0.4 0 153.04 45
STRIP LeftWall_917 8 8 18 0.4 0 156.48 45
STRIP LeftWall_917 8 8 18.4 0.4 0 159.92 45
STRIP LeftWall_917 8 8 18.8 0.4 0 163.36 45
STRIP LeftWall_917 8 8 19.2 0.4 0 166.8 45
STRIP LeftWall_917 8 8 19.6 0.4 0 170.24 45
STRIP LeftWall_917 8 8 20 0.4 0 173.68 45
STRIP LeftWall_917 8 8 20.4 0.4 0 177.12 45
STRIP LeftWall_917 8 8 20.8 0.4 0 180.56 45
STRIP LeftWall_917 8 8 21.2 0.4 0 184 45
STRIP LeftWall_917 8 8 21.6 0.4 0 187.44 45
STRIP LeftWall_917 8 8 22 0.4 0 190.88 45
STRIP LeftWall_917 8 8 22.4 0.4 0 194.31 45
STRIP LeftWall_917 8 8 22.8 0.4 0 197.75 45
STRIP LeftWall_917 8 8 23.2 0.4 0 201.19 45
STRIP LeftWall_917 8 8 23.6 0.4 0 204.63 45
STRIP LeftWall_917 8 8 24 0.4 0 208.07 45
STRIP LeftWall_917 8 8 24.4 0.4 0 211.51 45
STRIP LeftWall_917 8 8 24.8 0.4 0 214.95 45
STRIP LeftWall_917 8 8 25.2 0.4 0 218.39 45
STRIP LeftWall_917 8 8 25.6 0.4 0 221.83 45
STRIP LeftWall_917 8 8 26 0.4 0 225.27 45
STRIP LeftWall_917 8 8 26.4 0.4 0 228.71 45
STRIP LeftWall_917 8 8 26.8 0.4 0 232.15 45
STRIP LeftWall_917 8 8 27.2 0.4 0 235.59 45
STRIP LeftWall_917 8 8 27.6 0.4 0 239.02 45
STRIP LeftWall_917 8 8 28 0.4 0 242.46 45
STRIP LeftWall_917 8 8 28.4 0.4 0 245.9 45
STRIP LeftWall_917 8 8 28.8 0.4 0 249.34 45
STRIP LeftWall_917 8 8 29.2 0.4 0 252.78 45
STRIP LeftWall_917 8 8 29.6 0.4 0 256.22 45
STRIP LeftWall_917 9 9 0 0.4 0 1.7196 45
STRIP LeftWall_917 9 9 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 9 9 0.8 0.4 0 8.598 45
STRIP LeftWall_917 9 9 1.2 0.4 0 12.037 45
STRIP LeftWall_917 9 9 1.6 0.4 0 15.476 45
STRIP LeftWall_917 9 9 2 0.4 0 18.916 45
STRIP LeftWall_917 9 9 2.4 0.4 0 22.355 45
STRIP LeftWall_917 9 9 2.8 0.4 0 25.794 45
STRIP LeftWall_917 9 9 3.2 0.4 0 29.233 45
STRIP LeftWall_917 9 9 3.6 0.4 0 32.672 45
STRIP LeftWall_917 9 9 4 0.4 0 36.112 45
STRIP LeftWall_917 9 9 4.4 0.4 0 39.551 45
STRIP LeftWall_917 9 9 4.8 0.4 0 42.99 45
STRIP LeftWall_917 9 9 5.2 0.4 0 46.429 45
STRIP LeftWall_917 9 9 5.6 0.4 0 49.868 45
STRIP LeftWall_917 9 9 6 0.4 0 53.308 45
STRIP LeftWall_917 9 9 6.4 0.4 0 56.747 45
STRIP LeftWall_917 9 9 6.8 0.4 0 60.186 45
STRIP LeftWall_917 9 9 7.2 0.4 0 63.625 45
STRIP LeftWall_917 9 9 7.6 0.4 0 67.064 45
STRIP LeftWall_917 9 9 8 0.4 0 70.504 45
STRIP LeftWall_917 9 9 8.4 0.4 0 73.943 45
STRIP LeftWall_917 9 9 8.8 0.4 0 77.382 45
STRIP LeftWall_917 9 9 9.2 0.4 0 80.821 45
STRIP LeftWall_917 9 9 9.6 0.4 0 84.26 45
STRIP LeftWall_917 9 9 10 0.4 0 87.7 45
STRIP LeftWall_917 9 9 10.4 0.4 0 91.139 45
STRIP LeftWall_917 9 9 10.8 0.4 0 94.578 45
STRIP LeftWall_917 9 9 11.2 0.4 0 98.017 45
STRIP LeftWall_917 9 9 11.6 0.4 0 101.46 45
STRIP LeftWall_917 9 9 12 0.4 0 104.9 45
STRIP LeftWall_917 9 9 12.4 0.4 0 108.33 45
STRIP LeftWall_917 9 9 12.8 0.4 0 111.77 45
STRIP LeftWall_917 9 9 13.2 0.4 0 115.21 45
STRIP LeftWall_917 9 9 13.6 0.4 0 118.65 45
STRIP LeftWall_917 9 9 14 0.4 0 122.09 45
STRIP LeftWall_917 9 9 14.4 0.4 0 125.53 45
STRIP LeftWall_917 9 9 14.8 0.4 0 128.97 45
STRIP LeftWall_917 9 9 15.2 0.4 0 132.41 45
STRIP LeftWall_917 9 9 15.6 0.4 0 135.85 45
STRIP LeftWall_917 9 9 16 0.4 0 139.29 45
STRIP LeftWall_917 9 9 16.4 0.4 0 142.73 45
STRIP LeftWall_917 9 9 16.8 0.4 0 146.17 45
STRIP LeftWall_917 9 9 17.2 0.4 0 149.61 45
STRIP LeftWall_917 9 9 17.6 0.4 0 153.04 45
STRIP LeftWall_917 9 9 18 0.4 0 156.48 45
STRIP LeftWall_917 9 9 18.4 0.4 0 159.92 45
STRIP LeftWall_917 9 9 18.8 0.4 0 163.36 45
STRIP LeftWall_917 9 9 19.2 0.4 0 166.8 45
STRIP LeftWall_917 9 9 19.6 0.4 0 170.24 45
STRIP LeftWall_917 9 9 20 0.4 0 173.68 45
STRIP LeftWall_917 9 9 20.4 0.4 0 177.12 45
STRIP LeftWall_917 9 9 20.8 0.4 0 180.56 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 9 9 21.2 0.4 0 184.45
STRIP LeftWall_917 9 9 21.6 0.4 0 187.44 45
STRIP LeftWall_917 9 9 22 0.4 0 190.88 45
STRIP LeftWall_917 9 9 22.4 0.4 0 194.31 45
STRIP LeftWall_917 9 9 22.8 0.4 0 197.75 45
STRIP LeftWall_917 9 9 23.2 0.4 0 201.19 45
STRIP LeftWall_917 9 9 23.6 0.4 0 204.63 45
STRIP LeftWall_917 9 9 24 0.4 0 208.07 45
STRIP LeftWall_917 9 9 24.4 0.4 0 211.51 45
STRIP LeftWall_917 9 9 24.8 0.4 0 214.95 45
STRIP LeftWall_917 9 9 25.2 0.4 0 218.39 45
STRIP LeftWall_917 9 9 25.6 0.4 0 221.83 45
STRIP LeftWall_917 9 9 26 0.4 0 225.27 45
STRIP LeftWall_917 9 9 26.4 0.4 0 228.71 45
STRIP LeftWall_917 9 9 26.8 0.4 0 232.15 45
STRIP LeftWall_917 9 9 27.2 0.4 0 235.59 45
STRIP LeftWall_917 9 9 27.6 0.4 0 239.02 45
STRIP LeftWall_917 9 9 28 0.4 0 242.46 45
STRIP LeftWall_917 9 9 28.4 0.4 0 245.9 45
STRIP LeftWall_917 9 9 28.8 0.4 0 249.34 45
STRIP LeftWall_917 9 9 29.2 0.4 0 252.78 45
STRIP LeftWall_917 9 9 29.6 0.4 0 256.22 45
STRIP LeftWall_917 10 10 0 0.4 0 1.7196 45
STRIP LeftWall_917 10 10 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 10 10 0.8 0.4 0 8.598 45
STRIP LeftWall_917 10 10 1.2 0.4 0 12.037 45
STRIP LeftWall_917 10 10 1.6 0.4 0 15.476 45
STRIP LeftWall_917 10 10 2 0.4 0 18.916 45
STRIP LeftWall_917 10 10 2.4 0.4 0 22.355 45
STRIP LeftWall_917 10 10 2.8 0.4 0 25.794 45
STRIP LeftWall_917 10 10 3.2 0.4 0 29.233 45
STRIP LeftWall_917 10 10 3.6 0.4 0 32.672 45
STRIP LeftWall_917 10 10 4 0.4 0 36.112 45
STRIP LeftWall_917 10 10 4.4 0.4 0 39.551 45
STRIP LeftWall_917 10 10 4.8 0.4 0 42.99 45
STRIP LeftWall_917 10 10 5.2 0.4 0 46.429 45
STRIP LeftWall_917 10 10 5.6 0.4 0 49.868 45
STRIP LeftWall_917 10 10 6 0.4 0 53.308 45
STRIP LeftWall_917 10 10 6.4 0.4 0 56.747 45
STRIP LeftWall_917 10 10 6.8 0.4 0 60.186 45
STRIP LeftWall_917 10 10 7.2 0.4 0 63.625 45
STRIP LeftWall_917 10 10 7.6 0.4 0 67.064 45
STRIP LeftWall_917 10 10 8 0.4 0 70.504 45
STRIP LeftWall_917 10 10 8.4 0.4 0 73.943 45
STRIP LeftWall_917 10 10 8.8 0.4 0 77.382 45
STRIP LeftWall_917 10 10 9.2 0.4 0 80.821 45
STRIP LeftWall_917 10 10 9.6 0.4 0 84.26 45
STRIP LeftWall_917 10 10 10 0.4 0 87.7 45
STRIP LeftWall_917 10 10 10.4 0.4 0 91.139 45
STRIP LeftWall_917 10 10 10.8 0.4 0 94.578 45
STRIP LeftWall_917 10 10 11.2 0.4 0 98.017 45
STRIP LeftWall_917 10 10 11.6 0.4 0 101.46 45
STRIP LeftWall_917 10 10 12 0.4 0 104.9 45
STRIP LeftWall_917 10 10 12.4 0.4 0 108.33 45
STRIP LeftWall_917 10 10 12.8 0.4 0 111.77 45
STRIP LeftWall_917 10 10 13.2 0.4 0 115.21 45
STRIP LeftWall_917 10 10 13.6 0.4 0 118.65 45
STRIP LeftWall_917 10 10 14 0.4 0 122.09 45
STRIP LeftWall_917 10 10 14.4 0.4 0 125.53 45
STRIP LeftWall_917 10 10 14.8 0.4 0 128.97 45
STRIP LeftWall_917 10 10 15.2 0.4 0 132.41 45
STRIP LeftWall_917 10 10 15.6 0.4 0 135.85 45
STRIP LeftWall_917 10 10 16 0.4 0 139.29 45
STRIP LeftWall_917 10 10 16.4 0.4 0 142.73 45
STRIP LeftWall_917 10 10 16.8 0.4 0 146.17 45
STRIP LeftWall_917 10 10 17.2 0.4 0 149.61 45
STRIP LeftWall_917 10 10 17.6 0.4 0 153.04 45
STRIP LeftWall_917 10 10 18 0.4 0 156.48 45
STRIP LeftWall_917 10 10 18.4 0.4 0 159.92 45
STRIP LeftWall_917 10 10 18.8 0.4 0 163.36 45
STRIP LeftWall_917 10 10 19.2 0.4 0 166.8 45
STRIP LeftWall_917 10 10 19.6 0.4 0 170.24 45
STRIP LeftWall_917 10 10 20 0.4 0 173.68 45
STRIP LeftWall_917 10 10 20.4 0.4 0 177.12 45
STRIP LeftWall_917 10 10 20.8 0.4 0 180.56 45
STRIP LeftWall_917 10 10 21.2 0.4 0 184 45
STRIP LeftWall_917 10 10 21.6 0.4 0 187.44 45
STRIP LeftWall_917 10 10 22 0.4 0 190.88 45
STRIP LeftWall_917 10 10 22.4 0.4 0 194.31 45
STRIP LeftWall_917 10 10 22.8 0.4 0 197.75 45
STRIP LeftWall_917 10 10 23.2 0.4 0 201.19 45
STRIP LeftWall_917 10 10 23.6 0.4 0 204.63 45
STRIP LeftWall_917 10 10 24 0.4 0 208.07 45
STRIP LeftWall_917 10 10 24.4 0.4 0 211.51 45
STRIP LeftWall_917 10 10 24.8 0.4 0 214.95 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	10	10	25.2	0.4	0	218.39	45
STRIP LeftWall_917	10	10	25.6	0.4	0	221.83	45
STRIP LeftWall_917	10	10	26	0.4	0	225.27	45
STRIP LeftWall_917	10	10	26.4	0.4	0	228.71	45
STRIP LeftWall_917	10	10	26.8	0.4	0	232.15	45
STRIP LeftWall_917	10	10	27.2	0.4	0	235.59	45
STRIP LeftWall_917	10	10	27.6	0.4	0	239.02	45
STRIP LeftWall_917	10	10	28	0.4	0	242.46	45
STRIP LeftWall_917	10	10	28.4	0.4	0	245.9	45
STRIP LeftWall_917	10	10	28.8	0.4	0	249.34	45
STRIP LeftWall_917	10	10	29.2	0.4	0	252.78	45
STRIP LeftWall_917	10	10	29.6	0.4	0	256.22	45
STRIP LeftWall_917	11	11	0	0.4	0	1.7196	45
STRIP LeftWall_917	11	11	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	11	11	0.8	0.4	0	8.598	45
STRIP LeftWall_917	11	11	1.2	0.4	0	12.037	45
STRIP LeftWall_917	11	11	1.6	0.4	0	15.476	45
STRIP LeftWall_917	11	11	2	0.4	0	18.916	45
STRIP LeftWall_917	11	11	2.4	0.4	0	22.355	45
STRIP LeftWall_917	11	11	2.8	0.4	0	25.794	45
STRIP LeftWall_917	11	11	3.2	0.4	0	29.233	45
STRIP LeftWall_917	11	11	3.6	0.4	0	32.672	45
STRIP LeftWall_917	11	11	4	0.4	0	36.112	45
STRIP LeftWall_917	11	11	4.4	0.4	0	39.551	45
STRIP LeftWall_917	11	11	4.8	0.4	0	42.99	45
STRIP LeftWall_917	11	11	5.2	0.4	0	46.429	45
STRIP LeftWall_917	11	11	5.6	0.4	0	49.868	45
STRIP LeftWall_917	11	11	6	0.4	0	53.308	45
STRIP LeftWall_917	11	11	6.4	0.4	0	56.747	45
STRIP LeftWall_917	11	11	6.8	0.4	0	60.186	45
STRIP LeftWall_917	11	11	7.2	0.4	0	63.625	45
STRIP LeftWall_917	11	11	7.6	0.4	0	67.064	45
STRIP LeftWall_917	11	11	8	0.4	0	70.504	45
STRIP LeftWall_917	11	11	8.4	0.4	0	73.943	45
STRIP LeftWall_917	11	11	8.8	0.4	0	77.382	45
STRIP LeftWall_917	11	11	9.2	0.4	0	80.821	45
STRIP LeftWall_917	11	11	9.6	0.4	0	84.26	45
STRIP LeftWall_917	11	11	10	0.4	0	87.7	45
STRIP LeftWall_917	11	11	10.4	0.4	0	91.139	45
STRIP LeftWall_917	11	11	10.8	0.4	0	94.578	45
STRIP LeftWall_917	11	11	11.2	0.4	0	98.017	45
STRIP LeftWall_917	11	11	11.6	0.4	0	101.46	45
STRIP LeftWall_917	11	11	12	0.4	0	104.9	45
STRIP LeftWall_917	11	11	12.4	0.4	0	108.33	45
STRIP LeftWall_917	11	11	12.8	0.4	0	111.77	45
STRIP LeftWall_917	11	11	13.2	0.4	0	115.21	45
STRIP LeftWall_917	11	11	13.6	0.4	0	118.65	45
STRIP LeftWall_917	11	11	14	0.4	0	122.09	45
STRIP LeftWall_917	11	11	14.4	0.4	0	125.53	45
STRIP LeftWall_917	11	11	14.8	0.4	0	128.97	45
STRIP LeftWall_917	11	11	15.2	0.4	0	132.41	45
STRIP LeftWall_917	11	11	15.6	0.4	0	135.85	45
STRIP LeftWall_917	11	11	16	0.4	0	139.29	45
STRIP LeftWall_917	11	11	16.4	0.4	0	142.73	45
STRIP LeftWall_917	11	11	16.8	0.4	0	146.17	45
STRIP LeftWall_917	11	11	17.2	0.4	0	149.61	45
STRIP LeftWall_917	11	11	17.6	0.4	0	153.04	45
STRIP LeftWall_917	11	11	18	0.4	0	156.48	45
STRIP LeftWall_917	11	11	18.4	0.4	0	159.92	45
STRIP LeftWall_917	11	11	18.8	0.4	0	163.36	45
STRIP LeftWall_917	11	11	19.2	0.4	0	166.8	45
STRIP LeftWall_917	11	11	19.6	0.4	0	170.24	45
STRIP LeftWall_917	11	11	20	0.4	0	173.68	45
STRIP LeftWall_917	11	11	20.4	0.4	0	177.12	45
STRIP LeftWall_917	11	11	20.8	0.4	0	180.56	45
STRIP LeftWall_917	11	11	21.2	0.4	0	184	45
STRIP LeftWall_917	11	11	21.6	0.4	0	187.44	45
STRIP LeftWall_917	11	11	22	0.4	0	190.88	45
STRIP LeftWall_917	11	11	22.4	0.4	0	194.31	45
STRIP LeftWall_917	11	11	22.8	0.4	0	197.75	45
STRIP LeftWall_917	11	11	23.2	0.4	0	201.19	45
STRIP LeftWall_917	11	11	23.6	0.4	0	204.63	45
STRIP LeftWall_917	11	11	24	0.4	0	208.07	45
STRIP LeftWall_917	11	11	24.4	0.4	0	211.51	45
STRIP LeftWall_917	11	11	24.8	0.4	0	214.95	45
STRIP LeftWall_917	11	11	25.2	0.4	0	218.39	45
STRIP LeftWall_917	11	11	25.6	0.4	0	221.83	45
STRIP LeftWall_917	11	11	26	0.4	0	225.27	45
STRIP LeftWall_917	11	11	26.4	0.4	0	228.71	45
STRIP LeftWall_917	11	11	26.8	0.4	0	232.15	45
STRIP LeftWall_917	11	11	27.2	0.4	0	235.59	45
STRIP LeftWall_917	11	11	27.6	0.4	0	239.02	45
STRIP LeftWall_917	11	11	28	0.4	0	242.46	45
STRIP LeftWall_917	11	11	28.4	0.4	0	245.9	45
STRIP LeftWall_917	11	11	28.8	0.4	0	249.34	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 11 11 29.2 0.4 0 252.78 45
STRIP LeftWall_917 11 11 29.6 0.4 0 256.22 45
STRIP LeftWall_917 12 12 0 0.4 0 1.7196 45
STRIP LeftWall_917 12 12 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 12 12 0.8 0.4 0 8.598 45
STRIP LeftWall_917 12 12 1.2 0.4 0 12.037 45
STRIP LeftWall_917 12 12 1.6 0.4 0 15.476 45
STRIP LeftWall_917 12 12 2 0.4 0 18.916 45
STRIP LeftWall_917 12 12 2.4 0.4 0 22.355 45
STRIP LeftWall_917 12 12 2.8 0.4 0 25.794 45
STRIP LeftWall_917 12 12 3.2 0.4 0 29.233 45
STRIP LeftWall_917 12 12 3.6 0.4 0 32.672 45
STRIP LeftWall_917 12 12 4 0.4 0 36.112 45
STRIP LeftWall_917 12 12 4.4 0.4 0 39.551 45
STRIP LeftWall_917 12 12 4.8 0.4 0 42.99 45
STRIP LeftWall_917 12 12 5.2 0.4 0 46.429 45
STRIP LeftWall_917 12 12 5.6 0.4 0 49.868 45
STRIP LeftWall_917 12 12 6 0.4 0 53.308 45
STRIP LeftWall_917 12 12 6.4 0.4 0 56.747 45
STRIP LeftWall_917 12 12 6.8 0.4 0 60.186 45
STRIP LeftWall_917 12 12 7.2 0.4 0 63.625 45
STRIP LeftWall_917 12 12 7.6 0.4 0 67.064 45
STRIP LeftWall_917 12 12 8 0.4 0 70.504 45
STRIP LeftWall_917 12 12 8.4 0.4 0 73.943 45
STRIP LeftWall_917 12 12 8.8 0.4 0 77.382 45
STRIP LeftWall_917 12 12 9.2 0.4 0 80.821 45
STRIP LeftWall_917 12 12 9.6 0.4 0 84.26 45
STRIP LeftWall_917 12 12 10 0.4 0 87.7 45
STRIP LeftWall_917 12 12 10.4 0.4 0 91.139 45
STRIP LeftWall_917 12 12 10.8 0.4 0 94.578 45
STRIP LeftWall_917 12 12 11.2 0.4 0 98.017 45
STRIP LeftWall_917 12 12 11.6 0.4 0 101.46 45
STRIP LeftWall_917 12 12 12 0.4 0 104.9 45
STRIP LeftWall_917 12 12 12.4 0.4 0 108.33 45
STRIP LeftWall_917 12 12 12.8 0.4 0 111.77 45
STRIP LeftWall_917 12 12 13.2 0.4 0 115.21 45
STRIP LeftWall_917 12 12 13.6 0.4 0 118.65 45
STRIP LeftWall_917 12 12 14 0.4 0 122.09 45
STRIP LeftWall_917 12 12 14.4 0.4 0 125.53 45
STRIP LeftWall_917 12 12 14.8 0.4 0 128.97 45
STRIP LeftWall_917 12 12 15.2 0.4 0 132.41 45
STRIP LeftWall_917 12 12 15.6 0.4 0 135.85 45
STRIP LeftWall_917 12 12 16 0.4 0 139.29 45
STRIP LeftWall_917 12 12 16.4 0.4 0 142.73 45
STRIP LeftWall_917 12 12 16.8 0.4 0 146.17 45
STRIP LeftWall_917 12 12 17.2 0.4 0 149.61 45
STRIP LeftWall_917 12 12 17.6 0.4 0 153.04 45
STRIP LeftWall_917 12 12 18 0.4 0 156.48 45
STRIP LeftWall_917 12 12 18.4 0.4 0 159.92 45
STRIP LeftWall_917 12 12 18.8 0.4 0 163.36 45
STRIP LeftWall_917 12 12 19.2 0.4 0 166.8 45
STRIP LeftWall_917 12 12 19.6 0.4 0 170.24 45
STRIP LeftWall_917 12 12 20 0.4 0 173.68 45
STRIP LeftWall_917 12 12 20.4 0.4 0 177.12 45
STRIP LeftWall_917 12 12 20.8 0.4 0 180.56 45
STRIP LeftWall_917 12 12 21.2 0.4 0 184 45
STRIP LeftWall_917 12 12 21.6 0.4 0 187.44 45
STRIP LeftWall_917 12 12 22 0.4 0 190.88 45
STRIP LeftWall_917 12 12 22.4 0.4 0 194.31 45
STRIP LeftWall_917 12 12 22.8 0.4 0 197.75 45
STRIP LeftWall_917 12 12 23.2 0.4 0 201.19 45
STRIP LeftWall_917 12 12 23.6 0.4 0 204.63 45
STRIP LeftWall_917 12 12 24 0.4 0 208.07 45
STRIP LeftWall_917 12 12 24.4 0.4 0 211.51 45
STRIP LeftWall_917 12 12 24.8 0.4 0 214.95 45
STRIP LeftWall_917 12 12 25.2 0.4 0 218.39 45
STRIP LeftWall_917 12 12 25.6 0.4 0 221.83 45
STRIP LeftWall_917 12 12 26 0.4 0 225.27 45
STRIP LeftWall_917 12 12 26.4 0.4 0 228.71 45
STRIP LeftWall_917 12 12 26.8 0.4 0 232.15 45
STRIP LeftWall_917 12 12 27.2 0.4 0 235.59 45
STRIP LeftWall_917 12 12 27.6 0.4 0 239.02 45
STRIP LeftWall_917 12 12 28 0.4 0 242.46 45
STRIP LeftWall_917 12 12 28.4 0.4 0 245.9 45
STRIP LeftWall_917 12 12 28.8 0.4 0 249.34 45
STRIP LeftWall_917 12 12 29.2 0.4 0 252.78 45
STRIP LeftWall_917 12 12 29.6 0.4 0 256.22 45
STRIP LeftWall_917 13 13 0 0.4 0 1.7196 45
STRIP LeftWall_917 13 13 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 13 13 0.8 0.4 0 8.598 45
STRIP LeftWall_917 13 13 1.2 0.4 0 12.037 45
STRIP LeftWall_917 13 13 1.6 0.4 0 15.476 45
STRIP LeftWall_917 13 13 2 0.4 0 18.916 45
STRIP LeftWall_917 13 13 2.4 0.4 0 22.355 45
STRIP LeftWall_917 13 13 2.8 0.4 0 25.794 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 13 13 3.2 0.4 0 29.233 45
STRIP LeftWall_917 13 13 3.6 0.4 0 32.672 45
STRIP LeftWall_917 13 13 4 0.4 0 36.112 45
STRIP LeftWall_917 13 13 4.4 0.4 0 39.551 45
STRIP LeftWall_917 13 13 4.8 0.4 0 42.99 45
STRIP LeftWall_917 13 13 5.2 0.4 0 46.429 45
STRIP LeftWall_917 13 13 5.6 0.4 0 49.868 45
STRIP LeftWall_917 13 13 6 0.4 0 53.308 45
STRIP LeftWall_917 13 13 6.4 0.4 0 56.747 45
STRIP LeftWall_917 13 13 6.8 0.4 0 60.186 45
STRIP LeftWall_917 13 13 7.2 0.4 0 63.625 45
STRIP LeftWall_917 13 13 7.6 0.4 0 67.064 45
STRIP LeftWall_917 13 13 8 0.4 0 70.504 45
STRIP LeftWall_917 13 13 8.4 0.4 0 73.943 45
STRIP LeftWall_917 13 13 8.8 0.4 0 77.382 45
STRIP LeftWall_917 13 13 9.2 0.4 0 80.821 45
STRIP LeftWall_917 13 13 9.6 0.4 0 84.26 45
STRIP LeftWall_917 13 13 10 0.4 0 87.7 45
STRIP LeftWall_917 13 13 10.4 0.4 0 91.139 45
STRIP LeftWall_917 13 13 10.8 0.4 0 94.578 45
STRIP LeftWall_917 13 13 11.2 0.4 0 98.017 45
STRIP LeftWall_917 13 13 11.6 0.4 0 101.46 45
STRIP LeftWall_917 13 13 12 0.4 0 104.9 45
STRIP LeftWall_917 13 13 12.4 0.4 0 108.33 45
STRIP LeftWall_917 13 13 12.8 0.4 0 111.77 45
STRIP LeftWall_917 13 13 13.2 0.4 0 115.21 45
STRIP LeftWall_917 13 13 13.6 0.4 0 118.65 45
STRIP LeftWall_917 13 13 14 0.4 0 122.09 45
STRIP LeftWall_917 13 13 14.4 0.4 0 125.53 45
STRIP LeftWall_917 13 13 14.8 0.4 0 128.97 45
STRIP LeftWall_917 13 13 15.2 0.4 0 132.41 45
STRIP LeftWall_917 13 13 15.6 0.4 0 135.85 45
STRIP LeftWall_917 13 13 16 0.4 0 139.29 45
STRIP LeftWall_917 13 13 16.4 0.4 0 142.73 45
STRIP LeftWall_917 13 13 16.8 0.4 0 146.17 45
STRIP LeftWall_917 13 13 17.2 0.4 0 149.61 45
STRIP LeftWall_917 13 13 17.6 0.4 0 153.04 45
STRIP LeftWall_917 13 13 18 0.4 0 156.48 45
STRIP LeftWall_917 13 13 18.4 0.4 0 159.92 45
STRIP LeftWall_917 13 13 18.8 0.4 0 163.36 45
STRIP LeftWall_917 13 13 19.2 0.4 0 166.8 45
STRIP LeftWall_917 13 13 19.6 0.4 0 170.24 45
STRIP LeftWall_917 13 13 20 0.4 0 173.68 45
STRIP LeftWall_917 13 13 20.4 0.4 0 177.12 45
STRIP LeftWall_917 13 13 20.8 0.4 0 180.56 45
STRIP LeftWall_917 13 13 21.2 0.4 0 184 45
STRIP LeftWall_917 13 13 21.6 0.4 0 187.44 45
STRIP LeftWall_917 13 13 22 0.4 0 190.88 45
STRIP LeftWall_917 13 13 22.4 0.4 0 194.31 45
STRIP LeftWall_917 13 13 22.8 0.4 0 197.75 45
STRIP LeftWall_917 13 13 23.2 0.4 0 201.19 45
STRIP LeftWall_917 13 13 23.6 0.4 0 204.63 45
STRIP LeftWall_917 13 13 24 0.4 0 208.07 45
STRIP LeftWall_917 13 13 24.4 0.4 0 211.51 45
STRIP LeftWall_917 13 13 24.8 0.4 0 214.95 45
STRIP LeftWall_917 13 13 25.2 0.4 0 218.39 45
STRIP LeftWall_917 13 13 25.6 0.4 0 221.83 45
STRIP LeftWall_917 13 13 26 0.4 0 225.27 45
STRIP LeftWall_917 13 13 26.4 0.4 0 228.71 45
STRIP LeftWall_917 13 13 26.8 0.4 0 232.15 45
STRIP LeftWall_917 13 13 27.2 0.4 0 235.59 45
STRIP LeftWall_917 13 13 27.6 0.4 0 239.02 45
STRIP LeftWall_917 13 13 28 0.4 0 242.46 45
STRIP LeftWall_917 13 13 28.4 0.4 0 245.9 45
STRIP LeftWall_917 13 13 28.8 0.4 0 249.34 45
STRIP LeftWall_917 13 13 29.2 0.4 0 252.78 45
STRIP LeftWall_917 13 13 29.6 0.4 0 256.22 45
STRIP LeftWall_917 14 14 0 0.4 0 1.7196 45
STRIP LeftWall_917 14 14 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 14 14 0.8 0.4 0 8.598 45
STRIP LeftWall_917 14 14 1.2 0.4 0 12.037 45
STRIP LeftWall_917 14 14 1.6 0.4 0 15.476 45
STRIP LeftWall_917 14 14 2 0.4 0 18.916 45
STRIP LeftWall_917 14 14 2.4 0.4 0 22.355 45
STRIP LeftWall_917 14 14 2.8 0.4 0 25.794 45
STRIP LeftWall_917 14 14 3.2 0.4 0 29.233 45
STRIP LeftWall_917 14 14 3.6 0.4 0 32.672 45
STRIP LeftWall_917 14 14 4 0.4 0 36.112 45
STRIP LeftWall_917 14 14 4.4 0.4 0 39.551 45
STRIP LeftWall_917 14 14 4.8 0.4 0 42.99 45
STRIP LeftWall_917 14 14 5.2 0.4 0 46.429 45
STRIP LeftWall_917 14 14 5.6 0.4 0 49.868 45
STRIP LeftWall_917 14 14 6 0.4 0 53.308 45
STRIP LeftWall_917 14 14 6.4 0.4 0 56.747 45
STRIP LeftWall_917 14 14 6.8 0.4 0 60.186 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 14 14 7.2 0.4 0 63.625 45
STRIP LeftWall_917 14 14 7.6 0.4 0 67.064 45
STRIP LeftWall_917 14 14 8 0.4 0 70.504 45
STRIP LeftWall_917 14 14 8.4 0.4 0 73.943 45
STRIP LeftWall_917 14 14 8.8 0.4 0 77.382 45
STRIP LeftWall_917 14 14 9.2 0.4 0 80.821 45
STRIP LeftWall_917 14 14 9.6 0.4 0 84.26 45
STRIP LeftWall_917 14 14 10 0.4 0 87.7 45
STRIP LeftWall_917 14 14 10.4 0.4 0 91.139 45
STRIP LeftWall_917 14 14 10.8 0.4 0 94.578 45
STRIP LeftWall_917 14 14 11.2 0.4 0 98.017 45
STRIP LeftWall_917 14 14 11.6 0.4 0 101.46 45
STRIP LeftWall_917 14 14 12 0.4 0 104.9 45
STRIP LeftWall_917 14 14 12.4 0.4 0 108.33 45
STRIP LeftWall_917 14 14 12.8 0.4 0 111.77 45
STRIP LeftWall_917 14 14 13.2 0.4 0 115.21 45
STRIP LeftWall_917 14 14 13.6 0.4 0 118.65 45
STRIP LeftWall_917 14 14 14 0.4 0 122.09 45
STRIP LeftWall_917 14 14 14.4 0.4 0 125.53 45
STRIP LeftWall_917 14 14 14.8 0.4 0 128.97 45
STRIP LeftWall_917 14 14 15.2 0.4 0 132.41 45
STRIP LeftWall_917 14 14 15.6 0.4 0 135.85 45
STRIP LeftWall_917 14 14 16 0.4 0 139.29 45
STRIP LeftWall_917 14 14 16.4 0.4 0 142.73 45
STRIP LeftWall_917 14 14 16.8 0.4 0 146.17 45
STRIP LeftWall_917 14 14 17.2 0.4 0 149.61 45
STRIP LeftWall_917 14 14 17.6 0.4 0 153.04 45
STRIP LeftWall_917 14 14 18 0.4 0 156.48 45
STRIP LeftWall_917 14 14 18.4 0.4 0 159.92 45
STRIP LeftWall_917 14 14 18.8 0.4 0 163.36 45
STRIP LeftWall_917 14 14 19.2 0.4 0 166.8 45
STRIP LeftWall_917 14 14 19.6 0.4 0 170.24 45
STRIP LeftWall_917 14 14 20 0.4 0 173.68 45
STRIP LeftWall_917 14 14 20.4 0.4 0 177.12 45
STRIP LeftWall_917 14 14 20.8 0.4 0 180.56 45
STRIP LeftWall_917 14 14 21.2 0.4 0 184 45
STRIP LeftWall_917 14 14 21.6 0.4 0 187.44 45
STRIP LeftWall_917 14 14 22 0.4 0 190.88 45
STRIP LeftWall_917 14 14 22.4 0.4 0 194.31 45
STRIP LeftWall_917 14 14 22.8 0.4 0 197.75 45
STRIP LeftWall_917 14 14 23.2 0.4 0 201.19 45
STRIP LeftWall_917 14 14 23.6 0.4 0 204.63 45
STRIP LeftWall_917 14 14 24 0.4 0 208.07 45
STRIP LeftWall_917 14 14 24.4 0.4 0 211.51 45
STRIP LeftWall_917 14 14 24.8 0.4 0 214.95 45
STRIP LeftWall_917 14 14 25.2 0.4 0 218.39 45
STRIP LeftWall_917 14 14 25.6 0.4 0 221.83 45
STRIP LeftWall_917 14 14 26 0.4 0 225.27 45
STRIP LeftWall_917 14 14 26.4 0.4 0 228.71 45
STRIP LeftWall_917 14 14 26.8 0.4 0 232.15 45
STRIP LeftWall_917 14 14 27.2 0.4 0 235.59 45
STRIP LeftWall_917 14 14 27.6 0.4 0 239.02 45
STRIP LeftWall_917 14 14 28 0.4 0 242.46 45
STRIP LeftWall_917 14 14 28.4 0.4 0 245.9 45
STRIP LeftWall_917 14 14 28.8 0.4 0 249.34 45
STRIP LeftWall_917 14 14 29.2 0.4 0 252.78 45
STRIP LeftWall_917 14 14 29.6 0.4 0 256.22 45

* 7: Defining Steps

STEP Stepn.0Condizioniniziali_924
CHANGE Coltredestritica_2_905_L_0 U-FRICT=24.791 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-FRICT=24.791 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KA=0.409 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KP=3.185 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KA=0.409 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KP=3.185 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-FRICT=29.256 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-FRICT=29.256 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KA=0.343 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KP=4.102 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KA=0.343 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KP=4.102 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-COHE=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-ADHES=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-COHE=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-COHE=80 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-COHE=80 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-ADHES=0 LeftWall_917
SETWALL LeftWall_917
GEOM 0 0
SURCHARGE 0 0 0 0
WATER -30 0 -18 0 0
ADD LeftWallElement_1092

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

```
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.1Fasediscavo1-Fase1_935
SETWALL LeftWall_917
GEOM 0 -3.8
SURCHARGE 0 0 0 -3.5
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.2Fasediscavo1-Fase2_953
SETWALL LeftWall_917
GEOM 0 -3.8
SURCHARGE 0 0 0 -3.5
WATER -30 0 -18 0 0
ADD Tirantiesistenti+591.00_965
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.3Fasediscavo2-Fase1_973
SETWALL LeftWall_917
GEOM 0 -7.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.4Fasediscavo2-Fase2_991
SETWALL LeftWall_917
GEOM 0 -7.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
ADD Tirantiesistenti+587.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.5Fasediscavo3-Fase1_7442
SETWALL LeftWall_917
GEOM 0 -10.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.6Fasediscavo3-Fase2_8893
SETWALL LeftWall_917
GEOM 0 -10.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
ADD Tirantiesistenti+584.00_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.7Fasefinalediscavoes_1011
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.8Primotirantenuovo_1029
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
ADD TirantinuoviT1_3735
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.9Secondotirantenuovo_1049
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
ADD TirantinuoviT2_10346
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.10Terzotirantenuovo_10348
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



```
ADD TirantinuovIT3_10599
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage11Rilasciotirantiesis_3737
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
REMOVE Tirantiesistenti+591.00_965 Tirantiesistenti+587.00_1003
REMOVE Tirantiesistenti+584.00_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage12Scavodiprogetto_98268
SETWALL LeftWall_917
GEOM 0 -14.5
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage13Sisma_100691
SETWALL LeftWall_917
GEOM 0 -14.5
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
** SUBINCREMENT LOGIC - active since June 2019
  SUBINCREMENTS 2
ENDSTEP
```

11.5 Design Assumption : NTC2018: SISMICA STR - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: NTC2018: SISMICA STR
* Time:mercoledì 14 dicembre 2022 10:36:11
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_917 0 -18 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_917 -18 0 1 0
SOIL 0_R LeftWall_917 -18 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Coltredetrifica_2_905_L_0)
*
LDATA Coltredetrifica_2_905_L_0 30 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 18 10 10
PERMEABILITY 1E-05
RESISTANCE 0 30 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 30000 48000
ENDDL
*
* Soil Profile (Marnaarenacea_8_906_L_0)
*
LDATA Marnaarenacea_8_906_L_0 -3 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 21 13 10
PERMEABILITY 0.0001
RESISTANCE 100 35 0 0 0
TZDATA LINEAR 20000 0 30 0.5 0
KSCALE 0 0
YOUNG 1E+06 1.6E+06
ENDDL

* 5: Defining structural materials
* Rebar material: 54 Name=Strands 270 ksi E=200100000 kPa
MATERIAL Strands270ksi_54 2.001E+08
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

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Progetto Esecutivo**

* Concrete material: 1093 Name=C20/25 E=29962000 kPa
MATERIAL C2025_1093 2.9962E+07
* Steel material: 43 Name=Fe510 E=206000200 kPa
MATERIAL Fe510_43 2.06E+08

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later
BEAM LeftWallElement_1092 LeftWall_917 -18 0 Fe510_43 0.080792 0.018495 4.3946E-05 1.4241 00 00 0

* 6.2: Supports
WIRE Tirantiesistenti+591.00_965 LeftWall_917 -3.3 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+587.00_1003 LeftWall_917 -7.3 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+584.00_3643 LeftWall_917 -10.3 Strands270ksi_54 1.9501E-05 62.5 15 0 0
WIRE TirantinuoviT1_3735 LeftWall_917 -1.8 Strands270ksi_54 1.611E-05 62.5 15 0 0
WIRE TirantinuoviT2_10346 LeftWall_917 -5.3 Strands270ksi_54 1.611E-05 62.5 15 0 0
WIRE TirantinuoviT3_10599 LeftWall_917 -12.3 Strands270ksi_54 1.9501E-05 62.5 15 0 0

* 6.3: Strips

* (slope contribution)
STRIP LeftWall_917 1 1 0 0.4 0 1.7196 45
STRIP LeftWall_917 1 1 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 1 1 0.8 0.4 0 8.598 45
STRIP LeftWall_917 1 1 1.2 0.4 0 12.037 45
STRIP LeftWall_917 1 1 1.6 0.4 0 15.476 45
STRIP LeftWall_917 1 1 2 0.4 0 18.916 45
STRIP LeftWall_917 1 1 2.4 0.4 0 22.355 45
STRIP LeftWall_917 1 1 2.8 0.4 0 25.794 45
STRIP LeftWall_917 1 1 3.2 0.4 0 29.233 45
STRIP LeftWall_917 1 1 3.6 0.4 0 32.672 45
STRIP LeftWall_917 1 1 4 0.4 0 36.112 45
STRIP LeftWall_917 1 1 4.4 0.4 0 39.551 45
STRIP LeftWall_917 1 1 4.8 0.4 0 42.99 45
STRIP LeftWall_917 1 1 5.2 0.4 0 46.429 45
STRIP LeftWall_917 1 1 5.6 0.4 0 49.868 45
STRIP LeftWall_917 1 1 6 0.4 0 53.308 45
STRIP LeftWall_917 1 1 6.4 0.4 0 56.747 45
STRIP LeftWall_917 1 1 6.8 0.4 0 60.186 45
STRIP LeftWall_917 1 1 7.2 0.4 0 63.625 45
STRIP LeftWall_917 1 1 7.6 0.4 0 67.064 45
STRIP LeftWall_917 1 1 8 0.4 0 70.504 45
STRIP LeftWall_917 1 1 8.4 0.4 0 73.943 45
STRIP LeftWall_917 1 1 8.8 0.4 0 77.382 45
STRIP LeftWall_917 1 1 9.2 0.4 0 80.821 45
STRIP LeftWall_917 1 1 9.6 0.4 0 84.26 45
STRIP LeftWall_917 1 1 10 0.4 0 87.7 45
STRIP LeftWall_917 1 1 10.4 0.4 0 91.139 45
STRIP LeftWall_917 1 1 10.8 0.4 0 94.578 45
STRIP LeftWall_917 1 1 11.2 0.4 0 98.017 45
STRIP LeftWall_917 1 1 11.6 0.4 0 101.46 45
STRIP LeftWall_917 1 1 12 0.4 0 104.9 45
STRIP LeftWall_917 1 1 12.4 0.4 0 108.33 45
STRIP LeftWall_917 1 1 12.8 0.4 0 111.77 45
STRIP LeftWall_917 1 1 13.2 0.4 0 115.21 45
STRIP LeftWall_917 1 1 13.6 0.4 0 118.65 45
STRIP LeftWall_917 1 1 14 0.4 0 122.09 45
STRIP LeftWall_917 1 1 14.4 0.4 0 125.53 45
STRIP LeftWall_917 1 1 14.8 0.4 0 128.97 45
STRIP LeftWall_917 1 1 15.2 0.4 0 132.41 45
STRIP LeftWall_917 1 1 15.6 0.4 0 135.85 45
STRIP LeftWall_917 1 1 16 0.4 0 139.29 45
STRIP LeftWall_917 1 1 16.4 0.4 0 142.73 45
STRIP LeftWall_917 1 1 16.8 0.4 0 146.17 45
STRIP LeftWall_917 1 1 17.2 0.4 0 149.61 45
STRIP LeftWall_917 1 1 17.6 0.4 0 153.04 45
STRIP LeftWall_917 1 1 18 0.4 0 156.48 45
STRIP LeftWall_917 1 1 18.4 0.4 0 159.92 45
STRIP LeftWall_917 1 1 18.8 0.4 0 163.36 45
STRIP LeftWall_917 1 1 19.2 0.4 0 166.8 45
STRIP LeftWall_917 1 1 19.6 0.4 0 170.24 45
STRIP LeftWall_917 1 1 20 0.4 0 173.68 45
STRIP LeftWall_917 1 1 20.4 0.4 0 177.12 45
STRIP LeftWall_917 1 1 20.8 0.4 0 180.56 45
STRIP LeftWall_917 1 1 21.2 0.4 0 184 45
STRIP LeftWall_917 1 1 21.6 0.4 0 187.44 45
STRIP LeftWall_917 1 1 22 0.4 0 190.88 45
STRIP LeftWall_917 1 1 22.4 0.4 0 194.31 45
STRIP LeftWall_917 1 1 22.8 0.4 0 197.75 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 1 1 23.2 0.4 0 201.19 45
STRIP LeftWall_917 1 1 23.6 0.4 0 204.63 45
STRIP LeftWall_917 1 1 24 0.4 0 208.07 45
STRIP LeftWall_917 1 1 24.4 0.4 0 211.51 45
STRIP LeftWall_917 1 1 24.8 0.4 0 214.95 45
STRIP LeftWall_917 1 1 25.2 0.4 0 218.39 45
STRIP LeftWall_917 1 1 25.6 0.4 0 221.83 45
STRIP LeftWall_917 1 1 26 0.4 0 225.27 45
STRIP LeftWall_917 1 1 26.4 0.4 0 228.71 45
STRIP LeftWall_917 1 1 26.8 0.4 0 232.15 45
STRIP LeftWall_917 1 1 27.2 0.4 0 235.59 45
STRIP LeftWall_917 1 1 27.6 0.4 0 239.02 45
STRIP LeftWall_917 1 1 28 0.4 0 242.46 45
STRIP LeftWall_917 1 1 28.4 0.4 0 245.9 45
STRIP LeftWall_917 1 1 28.8 0.4 0 249.34 45
STRIP LeftWall_917 1 1 29.2 0.4 0 252.78 45
STRIP LeftWall_917 1 1 29.6 0.4 0 256.22 45
STRIP LeftWall_917 2 2 0 0.4 0 1.7196 45
STRIP LeftWall_917 2 2 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 2 2 0.8 0.4 0 8.598 45
STRIP LeftWall_917 2 2 1.2 0.4 0 12.037 45
STRIP LeftWall_917 2 2 1.6 0.4 0 15.476 45
STRIP LeftWall_917 2 2 2 0.4 0 18.916 45
STRIP LeftWall_917 2 2 2.4 0.4 0 22.355 45
STRIP LeftWall_917 2 2 2.8 0.4 0 25.794 45
STRIP LeftWall_917 2 2 3.2 0.4 0 29.233 45
STRIP LeftWall_917 2 2 3.6 0.4 0 32.672 45
STRIP LeftWall_917 2 2 4 0.4 0 36.112 45
STRIP LeftWall_917 2 2 4.4 0.4 0 39.551 45
STRIP LeftWall_917 2 2 4.8 0.4 0 42.99 45
STRIP LeftWall_917 2 2 5.2 0.4 0 46.429 45
STRIP LeftWall_917 2 2 5.6 0.4 0 49.868 45
STRIP LeftWall_917 2 2 6 0.4 0 53.308 45
STRIP LeftWall_917 2 2 6.4 0.4 0 56.747 45
STRIP LeftWall_917 2 2 6.8 0.4 0 60.186 45
STRIP LeftWall_917 2 2 7.2 0.4 0 63.625 45
STRIP LeftWall_917 2 2 7.6 0.4 0 67.064 45
STRIP LeftWall_917 2 2 8 0.4 0 70.504 45
STRIP LeftWall_917 2 2 8.4 0.4 0 73.943 45
STRIP LeftWall_917 2 2 8.8 0.4 0 77.382 45
STRIP LeftWall_917 2 2 9.2 0.4 0 80.821 45
STRIP LeftWall_917 2 2 9.6 0.4 0 84.26 45
STRIP LeftWall_917 2 2 10 0.4 0 87.7 45
STRIP LeftWall_917 2 2 10.4 0.4 0 91.139 45
STRIP LeftWall_917 2 2 10.8 0.4 0 94.578 45
STRIP LeftWall_917 2 2 11.2 0.4 0 98.017 45
STRIP LeftWall_917 2 2 11.6 0.4 0 101.46 45
STRIP LeftWall_917 2 2 12 0.4 0 104.9 45
STRIP LeftWall_917 2 2 12.4 0.4 0 108.33 45
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STRIP LeftWall_917 2 2 13.2 0.4 0 115.21 45
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STRIP LeftWall_917 2 2 14 0.4 0 122.09 45
STRIP LeftWall_917 2 2 14.4 0.4 0 125.53 45
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STRIP LeftWall_917 2 2 15.2 0.4 0 132.41 45
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STRIP LeftWall_917 2 2 16 0.4 0 139.29 45
STRIP LeftWall_917 2 2 16.4 0.4 0 142.73 45
STRIP LeftWall_917 2 2 16.8 0.4 0 146.17 45
STRIP LeftWall_917 2 2 17.2 0.4 0 149.61 45
STRIP LeftWall_917 2 2 17.6 0.4 0 153.04 45
STRIP LeftWall_917 2 2 18 0.4 0 156.48 45
STRIP LeftWall_917 2 2 18.4 0.4 0 159.92 45
STRIP LeftWall_917 2 2 18.8 0.4 0 163.36 45
STRIP LeftWall_917 2 2 19.2 0.4 0 166.8 45
STRIP LeftWall_917 2 2 19.6 0.4 0 170.24 45
STRIP LeftWall_917 2 2 20 0.4 0 173.68 45
STRIP LeftWall_917 2 2 20.4 0.4 0 177.12 45
STRIP LeftWall_917 2 2 20.8 0.4 0 180.56 45
STRIP LeftWall_917 2 2 21.2 0.4 0 184 45
STRIP LeftWall_917 2 2 21.6 0.4 0 187.44 45
STRIP LeftWall_917 2 2 22 0.4 0 190.88 45
STRIP LeftWall_917 2 2 22.4 0.4 0 194.31 45
STRIP LeftWall_917 2 2 22.8 0.4 0 197.75 45
STRIP LeftWall_917 2 2 23.2 0.4 0 201.19 45
STRIP LeftWall_917 2 2 23.6 0.4 0 204.63 45
STRIP LeftWall_917 2 2 24 0.4 0 208.07 45
STRIP LeftWall_917 2 2 24.4 0.4 0 211.51 45
STRIP LeftWall_917 2 2 24.8 0.4 0 214.95 45
STRIP LeftWall_917 2 2 25.2 0.4 0 218.39 45
STRIP LeftWall_917 2 2 25.6 0.4 0 221.83 45
STRIP LeftWall_917 2 2 26 0.4 0 225.27 45
STRIP LeftWall_917 2 2 26.4 0.4 0 228.71 45
STRIP LeftWall_917 2 2 26.8 0.4 0 232.15 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	2	2	27.2	0.4	0	235.59	45
STRIP LeftWall_917	2	2	27.6	0.4	0	239.02	45
STRIP LeftWall_917	2	2	28	0.4	0	242.46	45
STRIP LeftWall_917	2	2	28.4	0.4	0	245.9	45
STRIP LeftWall_917	2	2	28.8	0.4	0	249.34	45
STRIP LeftWall_917	2	2	29.2	0.4	0	252.78	45
STRIP LeftWall_917	2	2	29.6	0.4	0	256.22	45
STRIP LeftWall_917	3	3	0	0.4	0	1.7196	45
STRIP LeftWall_917	3	3	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	3	3	0.8	0.4	0	8.598	45
STRIP LeftWall_917	3	3	1.2	0.4	0	12.037	45
STRIP LeftWall_917	3	3	1.6	0.4	0	15.476	45
STRIP LeftWall_917	3	3	2	0.4	0	18.916	45
STRIP LeftWall_917	3	3	2.4	0.4	0	22.355	45
STRIP LeftWall_917	3	3	2.8	0.4	0	25.794	45
STRIP LeftWall_917	3	3	3.2	0.4	0	29.233	45
STRIP LeftWall_917	3	3	3.6	0.4	0	32.672	45
STRIP LeftWall_917	3	3	4	0.4	0	36.112	45
STRIP LeftWall_917	3	3	4.4	0.4	0	39.551	45
STRIP LeftWall_917	3	3	4.8	0.4	0	42.99	45
STRIP LeftWall_917	3	3	5.2	0.4	0	46.429	45
STRIP LeftWall_917	3	3	5.6	0.4	0	49.868	45
STRIP LeftWall_917	3	3	6	0.4	0	53.308	45
STRIP LeftWall_917	3	3	6.4	0.4	0	56.747	45
STRIP LeftWall_917	3	3	6.8	0.4	0	60.186	45
STRIP LeftWall_917	3	3	7.2	0.4	0	63.625	45
STRIP LeftWall_917	3	3	7.6	0.4	0	67.064	45
STRIP LeftWall_917	3	3	8	0.4	0	70.504	45
STRIP LeftWall_917	3	3	8.4	0.4	0	73.943	45
STRIP LeftWall_917	3	3	8.8	0.4	0	77.382	45
STRIP LeftWall_917	3	3	9.2	0.4	0	80.821	45
STRIP LeftWall_917	3	3	9.6	0.4	0	84.26	45
STRIP LeftWall_917	3	3	10	0.4	0	87.7	45
STRIP LeftWall_917	3	3	10.4	0.4	0	91.139	45
STRIP LeftWall_917	3	3	10.8	0.4	0	94.578	45
STRIP LeftWall_917	3	3	11.2	0.4	0	98.017	45
STRIP LeftWall_917	3	3	11.6	0.4	0	101.46	45
STRIP LeftWall_917	3	3	12	0.4	0	104.9	45
STRIP LeftWall_917	3	3	12.4	0.4	0	108.33	45
STRIP LeftWall_917	3	3	12.8	0.4	0	111.77	45
STRIP LeftWall_917	3	3	13.2	0.4	0	115.21	45
STRIP LeftWall_917	3	3	13.6	0.4	0	118.65	45
STRIP LeftWall_917	3	3	14	0.4	0	122.09	45
STRIP LeftWall_917	3	3	14.4	0.4	0	125.53	45
STRIP LeftWall_917	3	3	14.8	0.4	0	128.97	45
STRIP LeftWall_917	3	3	15.2	0.4	0	132.41	45
STRIP LeftWall_917	3	3	15.6	0.4	0	135.85	45
STRIP LeftWall_917	3	3	16	0.4	0	139.29	45
STRIP LeftWall_917	3	3	16.4	0.4	0	142.73	45
STRIP LeftWall_917	3	3	16.8	0.4	0	146.17	45
STRIP LeftWall_917	3	3	17.2	0.4	0	149.61	45
STRIP LeftWall_917	3	3	17.6	0.4	0	153.04	45
STRIP LeftWall_917	3	3	18	0.4	0	156.48	45
STRIP LeftWall_917	3	3	18.4	0.4	0	159.92	45
STRIP LeftWall_917	3	3	18.8	0.4	0	163.36	45
STRIP LeftWall_917	3	3	19.2	0.4	0	166.8	45
STRIP LeftWall_917	3	3	19.6	0.4	0	170.24	45
STRIP LeftWall_917	3	3	20	0.4	0	173.68	45
STRIP LeftWall_917	3	3	20.4	0.4	0	177.12	45
STRIP LeftWall_917	3	3	20.8	0.4	0	180.56	45
STRIP LeftWall_917	3	3	21.2	0.4	0	184	45
STRIP LeftWall_917	3	3	21.6	0.4	0	187.44	45
STRIP LeftWall_917	3	3	22	0.4	0	190.88	45
STRIP LeftWall_917	3	3	22.4	0.4	0	194.31	45
STRIP LeftWall_917	3	3	22.8	0.4	0	197.75	45
STRIP LeftWall_917	3	3	23.2	0.4	0	201.19	45
STRIP LeftWall_917	3	3	23.6	0.4	0	204.63	45
STRIP LeftWall_917	3	3	24	0.4	0	208.07	45
STRIP LeftWall_917	3	3	24.4	0.4	0	211.51	45
STRIP LeftWall_917	3	3	24.8	0.4	0	214.95	45
STRIP LeftWall_917	3	3	25.2	0.4	0	218.39	45
STRIP LeftWall_917	3	3	25.6	0.4	0	221.83	45
STRIP LeftWall_917	3	3	26	0.4	0	225.27	45
STRIP LeftWall_917	3	3	26.4	0.4	0	228.71	45
STRIP LeftWall_917	3	3	26.8	0.4	0	232.15	45
STRIP LeftWall_917	3	3	27.2	0.4	0	235.59	45
STRIP LeftWall_917	3	3	27.6	0.4	0	239.02	45
STRIP LeftWall_917	3	3	28	0.4	0	242.46	45
STRIP LeftWall_917	3	3	28.4	0.4	0	245.9	45
STRIP LeftWall_917	3	3	28.8	0.4	0	249.34	45
STRIP LeftWall_917	3	3	29.2	0.4	0	252.78	45
STRIP LeftWall_917	3	3	29.6	0.4	0	256.22	45
STRIP LeftWall_917	4	4	0	0.4	0	1.7196	45
STRIP LeftWall_917	4	4	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	4	4	0.8	0.4	0	8.598	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	4	4	1.2	0.4	0	12.037	45
STRIP LeftWall_917	4	4	1.6	0.4	0	15.476	45
STRIP LeftWall_917	4	4	2.0	0.4	0	18.916	45
STRIP LeftWall_917	4	4	2.4	0.4	0	22.355	45
STRIP LeftWall_917	4	4	2.8	0.4	0	25.794	45
STRIP LeftWall_917	4	4	3.2	0.4	0	29.233	45
STRIP LeftWall_917	4	4	3.6	0.4	0	32.672	45
STRIP LeftWall_917	4	4	4.0	0.4	0	36.112	45
STRIP LeftWall_917	4	4	4.4	0.4	0	39.551	45
STRIP LeftWall_917	4	4	4.8	0.4	0	42.99	45
STRIP LeftWall_917	4	4	5.2	0.4	0	46.429	45
STRIP LeftWall_917	4	4	5.6	0.4	0	49.868	45
STRIP LeftWall_917	4	4	6.0	0.4	0	53.308	45
STRIP LeftWall_917	4	4	6.4	0.4	0	56.747	45
STRIP LeftWall_917	4	4	6.8	0.4	0	60.186	45
STRIP LeftWall_917	4	4	7.2	0.4	0	63.625	45
STRIP LeftWall_917	4	4	7.6	0.4	0	67.064	45
STRIP LeftWall_917	4	4	8.0	0.4	0	70.504	45
STRIP LeftWall_917	4	4	8.4	0.4	0	73.943	45
STRIP LeftWall_917	4	4	8.8	0.4	0	77.382	45
STRIP LeftWall_917	4	4	9.2	0.4	0	80.821	45
STRIP LeftWall_917	4	4	9.6	0.4	0	84.26	45
STRIP LeftWall_917	4	4	10.0	0.4	0	87.7	45
STRIP LeftWall_917	4	4	10.4	0.4	0	91.139	45
STRIP LeftWall_917	4	4	10.8	0.4	0	94.578	45
STRIP LeftWall_917	4	4	11.2	0.4	0	98.017	45
STRIP LeftWall_917	4	4	11.6	0.4	0	101.46	45
STRIP LeftWall_917	4	4	12.0	0.4	0	104.9	45
STRIP LeftWall_917	4	4	12.4	0.4	0	108.33	45
STRIP LeftWall_917	4	4	12.8	0.4	0	111.77	45
STRIP LeftWall_917	4	4	13.2	0.4	0	115.21	45
STRIP LeftWall_917	4	4	13.6	0.4	0	118.65	45
STRIP LeftWall_917	4	4	14.0	0.4	0	122.09	45
STRIP LeftWall_917	4	4	14.4	0.4	0	125.53	45
STRIP LeftWall_917	4	4	14.8	0.4	0	128.97	45
STRIP LeftWall_917	4	4	15.2	0.4	0	132.41	45
STRIP LeftWall_917	4	4	15.6	0.4	0	135.85	45
STRIP LeftWall_917	4	4	16.0	0.4	0	139.29	45
STRIP LeftWall_917	4	4	16.4	0.4	0	142.73	45
STRIP LeftWall_917	4	4	16.8	0.4	0	146.17	45
STRIP LeftWall_917	4	4	17.2	0.4	0	149.61	45
STRIP LeftWall_917	4	4	17.6	0.4	0	153.04	45
STRIP LeftWall_917	4	4	18.0	0.4	0	156.48	45
STRIP LeftWall_917	4	4	18.4	0.4	0	159.92	45
STRIP LeftWall_917	4	4	18.8	0.4	0	163.36	45
STRIP LeftWall_917	4	4	19.2	0.4	0	166.8	45
STRIP LeftWall_917	4	4	19.6	0.4	0	170.24	45
STRIP LeftWall_917	4	4	20.0	0.4	0	173.68	45
STRIP LeftWall_917	4	4	20.4	0.4	0	177.12	45
STRIP LeftWall_917	4	4	20.8	0.4	0	180.56	45
STRIP LeftWall_917	4	4	21.2	0.4	0	184	45
STRIP LeftWall_917	4	4	21.6	0.4	0	187.44	45
STRIP LeftWall_917	4	4	22.0	0.4	0	190.88	45
STRIP LeftWall_917	4	4	22.4	0.4	0	194.31	45
STRIP LeftWall_917	4	4	22.8	0.4	0	197.75	45
STRIP LeftWall_917	4	4	23.2	0.4	0	201.19	45
STRIP LeftWall_917	4	4	23.6	0.4	0	204.63	45
STRIP LeftWall_917	4	4	24.0	0.4	0	208.07	45
STRIP LeftWall_917	4	4	24.4	0.4	0	211.51	45
STRIP LeftWall_917	4	4	24.8	0.4	0	214.95	45
STRIP LeftWall_917	4	4	25.2	0.4	0	218.39	45
STRIP LeftWall_917	4	4	25.6	0.4	0	221.83	45
STRIP LeftWall_917	4	4	26.0	0.4	0	225.27	45
STRIP LeftWall_917	4	4	26.4	0.4	0	228.71	45
STRIP LeftWall_917	4	4	26.8	0.4	0	232.15	45
STRIP LeftWall_917	4	4	27.2	0.4	0	235.59	45
STRIP LeftWall_917	4	4	27.6	0.4	0	239.02	45
STRIP LeftWall_917	4	4	28.0	0.4	0	242.46	45
STRIP LeftWall_917	4	4	28.4	0.4	0	245.9	45
STRIP LeftWall_917	4	4	28.8	0.4	0	249.34	45
STRIP LeftWall_917	4	4	29.2	0.4	0	252.78	45
STRIP LeftWall_917	4	4	29.6	0.4	0	256.22	45
STRIP LeftWall_917	5	5	0.0	0.4	0	1.7196	45
STRIP LeftWall_917	5	5	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	5	5	0.8	0.4	0	8.598	45
STRIP LeftWall_917	5	5	1.2	0.4	0	12.037	45
STRIP LeftWall_917	5	5	1.6	0.4	0	15.476	45
STRIP LeftWall_917	5	5	2.0	0.4	0	18.916	45
STRIP LeftWall_917	5	5	2.4	0.4	0	22.355	45
STRIP LeftWall_917	5	5	2.8	0.4	0	25.794	45
STRIP LeftWall_917	5	5	3.2	0.4	0	29.233	45
STRIP LeftWall_917	5	5	3.6	0.4	0	32.672	45
STRIP LeftWall_917	5	5	4.0	0.4	0	36.112	45
STRIP LeftWall_917	5	5	4.4	0.4	0	39.551	45
STRIP LeftWall_917	5	5	4.8	0.4	0	42.99	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 5 5 5.2 0.4 0 46.429 45
STRIP LeftWall_917 5 5 5.6 0.4 0 49.868 45
STRIP LeftWall_917 5 5 6 0.4 0 53.308 45
STRIP LeftWall_917 5 5 6.4 0.4 0 56.747 45
STRIP LeftWall_917 5 5 6.8 0.4 0 60.186 45
STRIP LeftWall_917 5 5 7.2 0.4 0 63.625 45
STRIP LeftWall_917 5 5 7.6 0.4 0 67.064 45
STRIP LeftWall_917 5 5 8 0.4 0 70.504 45
STRIP LeftWall_917 5 5 8.4 0.4 0 73.943 45
STRIP LeftWall_917 5 5 8.8 0.4 0 77.382 45
STRIP LeftWall_917 5 5 9.2 0.4 0 80.821 45
STRIP LeftWall_917 5 5 9.6 0.4 0 84.26 45
STRIP LeftWall_917 5 5 10 0.4 0 87.7 45
STRIP LeftWall_917 5 5 10.4 0.4 0 91.139 45
STRIP LeftWall_917 5 5 10.8 0.4 0 94.578 45
STRIP LeftWall_917 5 5 11.2 0.4 0 98.017 45
STRIP LeftWall_917 5 5 11.6 0.4 0 101.46 45
STRIP LeftWall_917 5 5 12 0.4 0 104.9 45
STRIP LeftWall_917 5 5 12.4 0.4 0 108.33 45
STRIP LeftWall_917 5 5 12.8 0.4 0 111.77 45
STRIP LeftWall_917 5 5 13.2 0.4 0 115.21 45
STRIP LeftWall_917 5 5 13.6 0.4 0 118.65 45
STRIP LeftWall_917 5 5 14 0.4 0 122.09 45
STRIP LeftWall_917 5 5 14.4 0.4 0 125.53 45
STRIP LeftWall_917 5 5 14.8 0.4 0 128.97 45
STRIP LeftWall_917 5 5 15.2 0.4 0 132.41 45
STRIP LeftWall_917 5 5 15.6 0.4 0 135.85 45
STRIP LeftWall_917 5 5 16 0.4 0 139.29 45
STRIP LeftWall_917 5 5 16.4 0.4 0 142.73 45
STRIP LeftWall_917 5 5 16.8 0.4 0 146.17 45
STRIP LeftWall_917 5 5 17.2 0.4 0 149.61 45
STRIP LeftWall_917 5 5 17.6 0.4 0 153.04 45
STRIP LeftWall_917 5 5 18 0.4 0 156.48 45
STRIP LeftWall_917 5 5 18.4 0.4 0 159.92 45
STRIP LeftWall_917 5 5 18.8 0.4 0 163.36 45
STRIP LeftWall_917 5 5 19.2 0.4 0 166.8 45
STRIP LeftWall_917 5 5 19.6 0.4 0 170.24 45
STRIP LeftWall_917 5 5 20 0.4 0 173.68 45
STRIP LeftWall_917 5 5 20.4 0.4 0 177.12 45
STRIP LeftWall_917 5 5 20.8 0.4 0 180.56 45
STRIP LeftWall_917 5 5 21.2 0.4 0 184 45
STRIP LeftWall_917 5 5 21.6 0.4 0 187.44 45
STRIP LeftWall_917 5 5 22 0.4 0 190.88 45
STRIP LeftWall_917 5 5 22.4 0.4 0 194.31 45
STRIP LeftWall_917 5 5 22.8 0.4 0 197.75 45
STRIP LeftWall_917 5 5 23.2 0.4 0 201.19 45
STRIP LeftWall_917 5 5 23.6 0.4 0 204.63 45
STRIP LeftWall_917 5 5 24 0.4 0 208.07 45
STRIP LeftWall_917 5 5 24.4 0.4 0 211.51 45
STRIP LeftWall_917 5 5 24.8 0.4 0 214.95 45
STRIP LeftWall_917 5 5 25.2 0.4 0 218.39 45
STRIP LeftWall_917 5 5 25.6 0.4 0 221.83 45
STRIP LeftWall_917 5 5 26 0.4 0 225.27 45
STRIP LeftWall_917 5 5 26.4 0.4 0 228.71 45
STRIP LeftWall_917 5 5 26.8 0.4 0 232.15 45
STRIP LeftWall_917 5 5 27.2 0.4 0 235.59 45
STRIP LeftWall_917 5 5 27.6 0.4 0 239.02 45
STRIP LeftWall_917 5 5 28 0.4 0 242.46 45
STRIP LeftWall_917 5 5 28.4 0.4 0 245.9 45
STRIP LeftWall_917 5 5 28.8 0.4 0 249.34 45
STRIP LeftWall_917 5 5 29.2 0.4 0 252.78 45
STRIP LeftWall_917 5 5 29.6 0.4 0 256.22 45
STRIP LeftWall_917 6 6 0 0.4 0 1.7196 45
STRIP LeftWall_917 6 6 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 6 6 0.8 0.4 0 8.598 45
STRIP LeftWall_917 6 6 1.2 0.4 0 12.037 45
STRIP LeftWall_917 6 6 1.6 0.4 0 15.476 45
STRIP LeftWall_917 6 6 2 0.4 0 18.916 45
STRIP LeftWall_917 6 6 2.4 0.4 0 22.355 45
STRIP LeftWall_917 6 6 2.8 0.4 0 25.794 45
STRIP LeftWall_917 6 6 3.2 0.4 0 29.233 45
STRIP LeftWall_917 6 6 3.6 0.4 0 32.672 45
STRIP LeftWall_917 6 6 4 0.4 0 36.112 45
STRIP LeftWall_917 6 6 4.4 0.4 0 39.551 45
STRIP LeftWall_917 6 6 4.8 0.4 0 42.99 45
STRIP LeftWall_917 6 6 5.2 0.4 0 46.429 45
STRIP LeftWall_917 6 6 5.6 0.4 0 49.868 45
STRIP LeftWall_917 6 6 6 0.4 0 53.308 45
STRIP LeftWall_917 6 6 6.4 0.4 0 56.747 45
STRIP LeftWall_917 6 6 6.8 0.4 0 60.186 45
STRIP LeftWall_917 6 6 7.2 0.4 0 63.625 45
STRIP LeftWall_917 6 6 7.6 0.4 0 67.064 45
STRIP LeftWall_917 6 6 8 0.4 0 70.504 45
STRIP LeftWall_917 6 6 8.4 0.4 0 73.943 45
STRIP LeftWall_917 6 6 8.8 0.4 0 77.382 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 6 6 9.2 0.4 0 80.821 45
STRIP LeftWall_917 6 6 9.6 0.4 0 84.26 45
STRIP LeftWall_917 6 6 10 0.4 0 87.7 45
STRIP LeftWall_917 6 6 10.4 0.4 0 91.139 45
STRIP LeftWall_917 6 6 10.8 0.4 0 94.578 45
STRIP LeftWall_917 6 6 11.2 0.4 0 98.017 45
STRIP LeftWall_917 6 6 11.6 0.4 0 101.46 45
STRIP LeftWall_917 6 6 12 0.4 0 104.9 45
STRIP LeftWall_917 6 6 12.4 0.4 0 108.33 45
STRIP LeftWall_917 6 6 12.8 0.4 0 111.77 45
STRIP LeftWall_917 6 6 13.2 0.4 0 115.21 45
STRIP LeftWall_917 6 6 13.6 0.4 0 118.65 45
STRIP LeftWall_917 6 6 14 0.4 0 122.09 45
STRIP LeftWall_917 6 6 14.4 0.4 0 125.53 45
STRIP LeftWall_917 6 6 14.8 0.4 0 128.97 45
STRIP LeftWall_917 6 6 15.2 0.4 0 132.41 45
STRIP LeftWall_917 6 6 15.6 0.4 0 135.85 45
STRIP LeftWall_917 6 6 16 0.4 0 139.29 45
STRIP LeftWall_917 6 6 16.4 0.4 0 142.73 45
STRIP LeftWall_917 6 6 16.8 0.4 0 146.17 45
STRIP LeftWall_917 6 6 17.2 0.4 0 149.61 45
STRIP LeftWall_917 6 6 17.6 0.4 0 153.04 45
STRIP LeftWall_917 6 6 18 0.4 0 156.48 45
STRIP LeftWall_917 6 6 18.4 0.4 0 159.92 45
STRIP LeftWall_917 6 6 18.8 0.4 0 163.36 45
STRIP LeftWall_917 6 6 19.2 0.4 0 166.8 45
STRIP LeftWall_917 6 6 19.6 0.4 0 170.24 45
STRIP LeftWall_917 6 6 20 0.4 0 173.68 45
STRIP LeftWall_917 6 6 20.4 0.4 0 177.12 45
STRIP LeftWall_917 6 6 20.8 0.4 0 180.56 45
STRIP LeftWall_917 6 6 21.2 0.4 0 184 45
STRIP LeftWall_917 6 6 21.6 0.4 0 187.44 45
STRIP LeftWall_917 6 6 22 0.4 0 190.88 45
STRIP LeftWall_917 6 6 22.4 0.4 0 194.31 45
STRIP LeftWall_917 6 6 22.8 0.4 0 197.75 45
STRIP LeftWall_917 6 6 23.2 0.4 0 201.19 45
STRIP LeftWall_917 6 6 23.6 0.4 0 204.63 45
STRIP LeftWall_917 6 6 24 0.4 0 208.07 45
STRIP LeftWall_917 6 6 24.4 0.4 0 211.51 45
STRIP LeftWall_917 6 6 24.8 0.4 0 214.95 45
STRIP LeftWall_917 6 6 25.2 0.4 0 218.39 45
STRIP LeftWall_917 6 6 25.6 0.4 0 221.83 45
STRIP LeftWall_917 6 6 26 0.4 0 225.27 45
STRIP LeftWall_917 6 6 26.4 0.4 0 228.71 45
STRIP LeftWall_917 6 6 26.8 0.4 0 232.15 45
STRIP LeftWall_917 6 6 27.2 0.4 0 235.59 45
STRIP LeftWall_917 6 6 27.6 0.4 0 239.02 45
STRIP LeftWall_917 6 6 28 0.4 0 242.46 45
STRIP LeftWall_917 6 6 28.4 0.4 0 245.9 45
STRIP LeftWall_917 6 6 28.8 0.4 0 249.34 45
STRIP LeftWall_917 6 6 29.2 0.4 0 252.78 45
STRIP LeftWall_917 6 6 29.6 0.4 0 256.22 45
STRIP LeftWall_917 7 7 0 0.4 0 1.7196 45
STRIP LeftWall_917 7 7 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 7 7 0.8 0.4 0 8.598 45
STRIP LeftWall_917 7 7 1.2 0.4 0 12.037 45
STRIP LeftWall_917 7 7 1.6 0.4 0 15.476 45
STRIP LeftWall_917 7 7 2 0.4 0 18.916 45
STRIP LeftWall_917 7 7 2.4 0.4 0 22.355 45
STRIP LeftWall_917 7 7 2.8 0.4 0 25.794 45
STRIP LeftWall_917 7 7 3.2 0.4 0 29.233 45
STRIP LeftWall_917 7 7 3.6 0.4 0 32.672 45
STRIP LeftWall_917 7 7 4 0.4 0 36.112 45
STRIP LeftWall_917 7 7 4.4 0.4 0 39.551 45
STRIP LeftWall_917 7 7 4.8 0.4 0 42.99 45
STRIP LeftWall_917 7 7 5.2 0.4 0 46.429 45
STRIP LeftWall_917 7 7 5.6 0.4 0 49.868 45
STRIP LeftWall_917 7 7 6 0.4 0 53.308 45
STRIP LeftWall_917 7 7 6.4 0.4 0 56.747 45
STRIP LeftWall_917 7 7 6.8 0.4 0 60.186 45
STRIP LeftWall_917 7 7 7.2 0.4 0 63.625 45
STRIP LeftWall_917 7 7 7.6 0.4 0 67.064 45
STRIP LeftWall_917 7 7 8 0.4 0 70.504 45
STRIP LeftWall_917 7 7 8.4 0.4 0 73.943 45
STRIP LeftWall_917 7 7 8.8 0.4 0 77.382 45
STRIP LeftWall_917 7 7 9.2 0.4 0 80.821 45
STRIP LeftWall_917 7 7 9.6 0.4 0 84.26 45
STRIP LeftWall_917 7 7 10 0.4 0 87.7 45
STRIP LeftWall_917 7 7 10.4 0.4 0 91.139 45
STRIP LeftWall_917 7 7 10.8 0.4 0 94.578 45
STRIP LeftWall_917 7 7 11.2 0.4 0 98.017 45
STRIP LeftWall_917 7 7 11.6 0.4 0 101.46 45
STRIP LeftWall_917 7 7 12 0.4 0 104.9 45
STRIP LeftWall_917 7 7 12.4 0.4 0 108.33 45
STRIP LeftWall_917 7 7 12.8 0.4 0 111.77 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 7 7 13.2 0.4 0 115.21 45
STRIP LeftWall_917 7 7 13.6 0.4 0 118.65 45
STRIP LeftWall_917 7 7 14 0.4 0 122.09 45
STRIP LeftWall_917 7 7 14.4 0.4 0 125.53 45
STRIP LeftWall_917 7 7 14.8 0.4 0 128.97 45
STRIP LeftWall_917 7 7 15.2 0.4 0 132.41 45
STRIP LeftWall_917 7 7 15.6 0.4 0 135.85 45
STRIP LeftWall_917 7 7 16 0.4 0 139.29 45
STRIP LeftWall_917 7 7 16.4 0.4 0 142.73 45
STRIP LeftWall_917 7 7 16.8 0.4 0 146.17 45
STRIP LeftWall_917 7 7 17.2 0.4 0 149.61 45
STRIP LeftWall_917 7 7 17.6 0.4 0 153.04 45
STRIP LeftWall_917 7 7 18 0.4 0 156.48 45
STRIP LeftWall_917 7 7 18.4 0.4 0 159.92 45
STRIP LeftWall_917 7 7 18.8 0.4 0 163.36 45
STRIP LeftWall_917 7 7 19.2 0.4 0 166.8 45
STRIP LeftWall_917 7 7 19.6 0.4 0 170.24 45
STRIP LeftWall_917 7 7 20 0.4 0 173.68 45
STRIP LeftWall_917 7 7 20.4 0.4 0 177.12 45
STRIP LeftWall_917 7 7 20.8 0.4 0 180.56 45
STRIP LeftWall_917 7 7 21.2 0.4 0 184 45
STRIP LeftWall_917 7 7 21.6 0.4 0 187.44 45
STRIP LeftWall_917 7 7 22 0.4 0 190.88 45
STRIP LeftWall_917 7 7 22.4 0.4 0 194.31 45
STRIP LeftWall_917 7 7 22.8 0.4 0 197.75 45
STRIP LeftWall_917 7 7 23.2 0.4 0 201.19 45
STRIP LeftWall_917 7 7 23.6 0.4 0 204.63 45
STRIP LeftWall_917 7 7 24 0.4 0 208.07 45
STRIP LeftWall_917 7 7 24.4 0.4 0 211.51 45
STRIP LeftWall_917 7 7 24.8 0.4 0 214.95 45
STRIP LeftWall_917 7 7 25.2 0.4 0 218.39 45
STRIP LeftWall_917 7 7 25.6 0.4 0 221.83 45
STRIP LeftWall_917 7 7 26 0.4 0 225.27 45
STRIP LeftWall_917 7 7 26.4 0.4 0 228.71 45
STRIP LeftWall_917 7 7 26.8 0.4 0 232.15 45
STRIP LeftWall_917 7 7 27.2 0.4 0 235.59 45
STRIP LeftWall_917 7 7 27.6 0.4 0 239.02 45
STRIP LeftWall_917 7 7 28 0.4 0 242.46 45
STRIP LeftWall_917 7 7 28.4 0.4 0 245.9 45
STRIP LeftWall_917 7 7 28.8 0.4 0 249.34 45
STRIP LeftWall_917 7 7 29.2 0.4 0 252.78 45
STRIP LeftWall_917 7 7 29.6 0.4 0 256.22 45
STRIP LeftWall_917 8 8 0 0.4 0 1.7196 45
STRIP LeftWall_917 8 8 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 8 8 0.8 0.4 0 8.598 45
STRIP LeftWall_917 8 8 1.2 0.4 0 12.037 45
STRIP LeftWall_917 8 8 1.6 0.4 0 15.476 45
STRIP LeftWall_917 8 8 2 0.4 0 18.916 45
STRIP LeftWall_917 8 8 2.4 0.4 0 22.355 45
STRIP LeftWall_917 8 8 2.8 0.4 0 25.794 45
STRIP LeftWall_917 8 8 3.2 0.4 0 29.233 45
STRIP LeftWall_917 8 8 3.6 0.4 0 32.672 45
STRIP LeftWall_917 8 8 4 0.4 0 36.112 45
STRIP LeftWall_917 8 8 4.4 0.4 0 39.551 45
STRIP LeftWall_917 8 8 4.8 0.4 0 42.99 45
STRIP LeftWall_917 8 8 5.2 0.4 0 46.429 45
STRIP LeftWall_917 8 8 5.6 0.4 0 49.868 45
STRIP LeftWall_917 8 8 6 0.4 0 53.308 45
STRIP LeftWall_917 8 8 6.4 0.4 0 56.747 45
STRIP LeftWall_917 8 8 6.8 0.4 0 60.186 45
STRIP LeftWall_917 8 8 7.2 0.4 0 63.625 45
STRIP LeftWall_917 8 8 7.6 0.4 0 67.064 45
STRIP LeftWall_917 8 8 8 0.4 0 70.504 45
STRIP LeftWall_917 8 8 8.4 0.4 0 73.943 45
STRIP LeftWall_917 8 8 8.8 0.4 0 77.382 45
STRIP LeftWall_917 8 8 9.2 0.4 0 80.821 45
STRIP LeftWall_917 8 8 9.6 0.4 0 84.26 45
STRIP LeftWall_917 8 8 10 0.4 0 87.7 45
STRIP LeftWall_917 8 8 10.4 0.4 0 91.139 45
STRIP LeftWall_917 8 8 10.8 0.4 0 94.578 45
STRIP LeftWall_917 8 8 11.2 0.4 0 98.017 45
STRIP LeftWall_917 8 8 11.6 0.4 0 101.46 45
STRIP LeftWall_917 8 8 12 0.4 0 104.9 45
STRIP LeftWall_917 8 8 12.4 0.4 0 108.33 45
STRIP LeftWall_917 8 8 12.8 0.4 0 111.77 45
STRIP LeftWall_917 8 8 13.2 0.4 0 115.21 45
STRIP LeftWall_917 8 8 13.6 0.4 0 118.65 45
STRIP LeftWall_917 8 8 14 0.4 0 122.09 45
STRIP LeftWall_917 8 8 14.4 0.4 0 125.53 45
STRIP LeftWall_917 8 8 14.8 0.4 0 128.97 45
STRIP LeftWall_917 8 8 15.2 0.4 0 132.41 45
STRIP LeftWall_917 8 8 15.6 0.4 0 135.85 45
STRIP LeftWall_917 8 8 16 0.4 0 139.29 45
STRIP LeftWall_917 8 8 16.4 0.4 0 142.73 45
STRIP LeftWall_917 8 8 16.8 0.4 0 146.17 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 8 8 17.2 0.4 0 149.61 45
STRIP LeftWall_917 8 8 17.6 0.4 0 153.04 45
STRIP LeftWall_917 8 8 18 0.4 0 156.48 45
STRIP LeftWall_917 8 8 18.4 0.4 0 159.92 45
STRIP LeftWall_917 8 8 18.8 0.4 0 163.36 45
STRIP LeftWall_917 8 8 19.2 0.4 0 166.8 45
STRIP LeftWall_917 8 8 19.6 0.4 0 170.24 45
STRIP LeftWall_917 8 8 20 0.4 0 173.68 45
STRIP LeftWall_917 8 8 20.4 0.4 0 177.12 45
STRIP LeftWall_917 8 8 20.8 0.4 0 180.56 45
STRIP LeftWall_917 8 8 21.2 0.4 0 184 45
STRIP LeftWall_917 8 8 21.6 0.4 0 187.44 45
STRIP LeftWall_917 8 8 22 0.4 0 190.88 45
STRIP LeftWall_917 8 8 22.4 0.4 0 194.31 45
STRIP LeftWall_917 8 8 22.8 0.4 0 197.75 45
STRIP LeftWall_917 8 8 23.2 0.4 0 201.19 45
STRIP LeftWall_917 8 8 23.6 0.4 0 204.63 45
STRIP LeftWall_917 8 8 24 0.4 0 208.07 45
STRIP LeftWall_917 8 8 24.4 0.4 0 211.51 45
STRIP LeftWall_917 8 8 24.8 0.4 0 214.95 45
STRIP LeftWall_917 8 8 25.2 0.4 0 218.39 45
STRIP LeftWall_917 8 8 25.6 0.4 0 221.83 45
STRIP LeftWall_917 8 8 26 0.4 0 225.27 45
STRIP LeftWall_917 8 8 26.4 0.4 0 228.71 45
STRIP LeftWall_917 8 8 26.8 0.4 0 232.15 45
STRIP LeftWall_917 8 8 27.2 0.4 0 235.59 45
STRIP LeftWall_917 8 8 27.6 0.4 0 239.02 45
STRIP LeftWall_917 8 8 28 0.4 0 242.46 45
STRIP LeftWall_917 8 8 28.4 0.4 0 245.9 45
STRIP LeftWall_917 8 8 28.8 0.4 0 249.34 45
STRIP LeftWall_917 8 8 29.2 0.4 0 252.78 45
STRIP LeftWall_917 8 8 29.6 0.4 0 256.22 45
STRIP LeftWall_917 9 9 0 0.4 0 1.7196 45
STRIP LeftWall_917 9 9 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 9 9 0.8 0.4 0 8.598 45
STRIP LeftWall_917 9 9 1.2 0.4 0 12.037 45
STRIP LeftWall_917 9 9 1.6 0.4 0 15.476 45
STRIP LeftWall_917 9 9 2 0.4 0 18.916 45
STRIP LeftWall_917 9 9 2.4 0.4 0 22.355 45
STRIP LeftWall_917 9 9 2.8 0.4 0 25.794 45
STRIP LeftWall_917 9 9 3.2 0.4 0 29.233 45
STRIP LeftWall_917 9 9 3.6 0.4 0 32.672 45
STRIP LeftWall_917 9 9 4 0.4 0 36.112 45
STRIP LeftWall_917 9 9 4.4 0.4 0 39.551 45
STRIP LeftWall_917 9 9 4.8 0.4 0 42.99 45
STRIP LeftWall_917 9 9 5.2 0.4 0 46.429 45
STRIP LeftWall_917 9 9 5.6 0.4 0 49.868 45
STRIP LeftWall_917 9 9 6 0.4 0 53.308 45
STRIP LeftWall_917 9 9 6.4 0.4 0 56.747 45
STRIP LeftWall_917 9 9 6.8 0.4 0 60.186 45
STRIP LeftWall_917 9 9 7.2 0.4 0 63.625 45
STRIP LeftWall_917 9 9 7.6 0.4 0 67.064 45
STRIP LeftWall_917 9 9 8 0.4 0 70.504 45
STRIP LeftWall_917 9 9 8.4 0.4 0 73.943 45
STRIP LeftWall_917 9 9 8.8 0.4 0 77.382 45
STRIP LeftWall_917 9 9 9.2 0.4 0 80.821 45
STRIP LeftWall_917 9 9 9.6 0.4 0 84.26 45
STRIP LeftWall_917 9 9 10 0.4 0 87.7 45
STRIP LeftWall_917 9 9 10.4 0.4 0 91.139 45
STRIP LeftWall_917 9 9 10.8 0.4 0 94.578 45
STRIP LeftWall_917 9 9 11.2 0.4 0 98.017 45
STRIP LeftWall_917 9 9 11.6 0.4 0 101.46 45
STRIP LeftWall_917 9 9 12 0.4 0 104.9 45
STRIP LeftWall_917 9 9 12.4 0.4 0 108.33 45
STRIP LeftWall_917 9 9 12.8 0.4 0 111.77 45
STRIP LeftWall_917 9 9 13.2 0.4 0 115.21 45
STRIP LeftWall_917 9 9 13.6 0.4 0 118.65 45
STRIP LeftWall_917 9 9 14 0.4 0 122.09 45
STRIP LeftWall_917 9 9 14.4 0.4 0 125.53 45
STRIP LeftWall_917 9 9 14.8 0.4 0 128.97 45
STRIP LeftWall_917 9 9 15.2 0.4 0 132.41 45
STRIP LeftWall_917 9 9 15.6 0.4 0 135.85 45
STRIP LeftWall_917 9 9 16 0.4 0 139.29 45
STRIP LeftWall_917 9 9 16.4 0.4 0 142.73 45
STRIP LeftWall_917 9 9 16.8 0.4 0 146.17 45
STRIP LeftWall_917 9 9 17.2 0.4 0 149.61 45
STRIP LeftWall_917 9 9 17.6 0.4 0 153.04 45
STRIP LeftWall_917 9 9 18 0.4 0 156.48 45
STRIP LeftWall_917 9 9 18.4 0.4 0 159.92 45
STRIP LeftWall_917 9 9 18.8 0.4 0 163.36 45
STRIP LeftWall_917 9 9 19.2 0.4 0 166.8 45
STRIP LeftWall_917 9 9 19.6 0.4 0 170.24 45
STRIP LeftWall_917 9 9 20 0.4 0 173.68 45
STRIP LeftWall_917 9 9 20.4 0.4 0 177.12 45
STRIP LeftWall_917 9 9 20.8 0.4 0 180.56 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 9 9 21.2 0.4 0 184 45
STRIP LeftWall_917 9 9 21.6 0.4 0 187.44 45
STRIP LeftWall_917 9 9 22 0.4 0 190.88 45
STRIP LeftWall_917 9 9 22.4 0.4 0 194.31 45
STRIP LeftWall_917 9 9 22.8 0.4 0 197.75 45
STRIP LeftWall_917 9 9 23.2 0.4 0 201.19 45
STRIP LeftWall_917 9 9 23.6 0.4 0 204.63 45
STRIP LeftWall_917 9 9 24 0.4 0 208.07 45
STRIP LeftWall_917 9 9 24.4 0.4 0 211.51 45
STRIP LeftWall_917 9 9 24.8 0.4 0 214.95 45
STRIP LeftWall_917 9 9 25.2 0.4 0 218.39 45
STRIP LeftWall_917 9 9 25.6 0.4 0 221.83 45
STRIP LeftWall_917 9 9 26 0.4 0 225.27 45
STRIP LeftWall_917 9 9 26.4 0.4 0 228.71 45
STRIP LeftWall_917 9 9 26.8 0.4 0 232.15 45
STRIP LeftWall_917 9 9 27.2 0.4 0 235.59 45
STRIP LeftWall_917 9 9 27.6 0.4 0 239.02 45
STRIP LeftWall_917 9 9 28 0.4 0 242.46 45
STRIP LeftWall_917 9 9 28.4 0.4 0 245.9 45
STRIP LeftWall_917 9 9 28.8 0.4 0 249.34 45
STRIP LeftWall_917 9 9 29.2 0.4 0 252.78 45
STRIP LeftWall_917 9 9 29.6 0.4 0 256.22 45
STRIP LeftWall_917 10 10 0 0.4 0 1.7196 45
STRIP LeftWall_917 10 10 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 10 10 0.8 0.4 0 8.598 45
STRIP LeftWall_917 10 10 1.2 0.4 0 12.037 45
STRIP LeftWall_917 10 10 1.6 0.4 0 15.476 45
STRIP LeftWall_917 10 10 2 0.4 0 18.916 45
STRIP LeftWall_917 10 10 2.4 0.4 0 22.355 45
STRIP LeftWall_917 10 10 2.8 0.4 0 25.794 45
STRIP LeftWall_917 10 10 3.2 0.4 0 29.233 45
STRIP LeftWall_917 10 10 3.6 0.4 0 32.672 45
STRIP LeftWall_917 10 10 4 0.4 0 36.112 45
STRIP LeftWall_917 10 10 4.4 0.4 0 39.551 45
STRIP LeftWall_917 10 10 4.8 0.4 0 42.99 45
STRIP LeftWall_917 10 10 5.2 0.4 0 46.429 45
STRIP LeftWall_917 10 10 5.6 0.4 0 49.868 45
STRIP LeftWall_917 10 10 6 0.4 0 53.308 45
STRIP LeftWall_917 10 10 6.4 0.4 0 56.747 45
STRIP LeftWall_917 10 10 6.8 0.4 0 60.186 45
STRIP LeftWall_917 10 10 7.2 0.4 0 63.625 45
STRIP LeftWall_917 10 10 7.6 0.4 0 67.064 45
STRIP LeftWall_917 10 10 8 0.4 0 70.504 45
STRIP LeftWall_917 10 10 8.4 0.4 0 73.943 45
STRIP LeftWall_917 10 10 8.8 0.4 0 77.382 45
STRIP LeftWall_917 10 10 9.2 0.4 0 80.821 45
STRIP LeftWall_917 10 10 9.6 0.4 0 84.26 45
STRIP LeftWall_917 10 10 10 0.4 0 87.7 45
STRIP LeftWall_917 10 10 10.4 0.4 0 91.139 45
STRIP LeftWall_917 10 10 10.8 0.4 0 94.578 45
STRIP LeftWall_917 10 10 11.2 0.4 0 98.017 45
STRIP LeftWall_917 10 10 11.6 0.4 0 101.46 45
STRIP LeftWall_917 10 10 12 0.4 0 104.9 45
STRIP LeftWall_917 10 10 12.4 0.4 0 108.33 45
STRIP LeftWall_917 10 10 12.8 0.4 0 111.77 45
STRIP LeftWall_917 10 10 13.2 0.4 0 115.21 45
STRIP LeftWall_917 10 10 13.6 0.4 0 118.65 45
STRIP LeftWall_917 10 10 14 0.4 0 122.09 45
STRIP LeftWall_917 10 10 14.4 0.4 0 125.53 45
STRIP LeftWall_917 10 10 14.8 0.4 0 128.97 45
STRIP LeftWall_917 10 10 15.2 0.4 0 132.41 45
STRIP LeftWall_917 10 10 15.6 0.4 0 135.85 45
STRIP LeftWall_917 10 10 16 0.4 0 139.29 45
STRIP LeftWall_917 10 10 16.4 0.4 0 142.73 45
STRIP LeftWall_917 10 10 16.8 0.4 0 146.17 45
STRIP LeftWall_917 10 10 17.2 0.4 0 149.61 45
STRIP LeftWall_917 10 10 17.6 0.4 0 153.04 45
STRIP LeftWall_917 10 10 18 0.4 0 156.48 45
STRIP LeftWall_917 10 10 18.4 0.4 0 159.92 45
STRIP LeftWall_917 10 10 18.8 0.4 0 163.36 45
STRIP LeftWall_917 10 10 19.2 0.4 0 166.8 45
STRIP LeftWall_917 10 10 19.6 0.4 0 170.24 45
STRIP LeftWall_917 10 10 20 0.4 0 173.68 45
STRIP LeftWall_917 10 10 20.4 0.4 0 177.12 45
STRIP LeftWall_917 10 10 20.8 0.4 0 180.56 45
STRIP LeftWall_917 10 10 21.2 0.4 0 184 45
STRIP LeftWall_917 10 10 21.6 0.4 0 187.44 45
STRIP LeftWall_917 10 10 22 0.4 0 190.88 45
STRIP LeftWall_917 10 10 22.4 0.4 0 194.31 45
STRIP LeftWall_917 10 10 22.8 0.4 0 197.75 45
STRIP LeftWall_917 10 10 23.2 0.4 0 201.19 45
STRIP LeftWall_917 10 10 23.6 0.4 0 204.63 45
STRIP LeftWall_917 10 10 24 0.4 0 208.07 45
STRIP LeftWall_917 10 10 24.4 0.4 0 211.51 45
STRIP LeftWall_917 10 10 24.8 0.4 0 214.95 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917	10	10	25.2	0.4	0	218.39	45
STRIP LeftWall_917	10	10	25.6	0.4	0	221.83	45
STRIP LeftWall_917	10	10	26	0.4	0	225.27	45
STRIP LeftWall_917	10	10	26.4	0.4	0	228.71	45
STRIP LeftWall_917	10	10	26.8	0.4	0	232.15	45
STRIP LeftWall_917	10	10	27.2	0.4	0	235.59	45
STRIP LeftWall_917	10	10	27.6	0.4	0	239.02	45
STRIP LeftWall_917	10	10	28	0.4	0	242.46	45
STRIP LeftWall_917	10	10	28.4	0.4	0	245.9	45
STRIP LeftWall_917	10	10	28.8	0.4	0	249.34	45
STRIP LeftWall_917	10	10	29.2	0.4	0	252.78	45
STRIP LeftWall_917	10	10	29.6	0.4	0	256.22	45
STRIP LeftWall_917	11	11	0	0.4	0	1.7196	45
STRIP LeftWall_917	11	11	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	11	11	0.8	0.4	0	8.598	45
STRIP LeftWall_917	11	11	1.2	0.4	0	12.037	45
STRIP LeftWall_917	11	11	1.6	0.4	0	15.476	45
STRIP LeftWall_917	11	11	2	0.4	0	18.916	45
STRIP LeftWall_917	11	11	2.4	0.4	0	22.355	45
STRIP LeftWall_917	11	11	2.8	0.4	0	25.794	45
STRIP LeftWall_917	11	11	3.2	0.4	0	29.233	45
STRIP LeftWall_917	11	11	3.6	0.4	0	32.672	45
STRIP LeftWall_917	11	11	4	0.4	0	36.112	45
STRIP LeftWall_917	11	11	4.4	0.4	0	39.551	45
STRIP LeftWall_917	11	11	4.8	0.4	0	42.99	45
STRIP LeftWall_917	11	11	5.2	0.4	0	46.429	45
STRIP LeftWall_917	11	11	5.6	0.4	0	49.868	45
STRIP LeftWall_917	11	11	6	0.4	0	53.308	45
STRIP LeftWall_917	11	11	6.4	0.4	0	56.747	45
STRIP LeftWall_917	11	11	6.8	0.4	0	60.186	45
STRIP LeftWall_917	11	11	7.2	0.4	0	63.625	45
STRIP LeftWall_917	11	11	7.6	0.4	0	67.064	45
STRIP LeftWall_917	11	11	8	0.4	0	70.504	45
STRIP LeftWall_917	11	11	8.4	0.4	0	73.943	45
STRIP LeftWall_917	11	11	8.8	0.4	0	77.382	45
STRIP LeftWall_917	11	11	9.2	0.4	0	80.821	45
STRIP LeftWall_917	11	11	9.6	0.4	0	84.26	45
STRIP LeftWall_917	11	11	10	0.4	0	87.7	45
STRIP LeftWall_917	11	11	10.4	0.4	0	91.139	45
STRIP LeftWall_917	11	11	10.8	0.4	0	94.578	45
STRIP LeftWall_917	11	11	11.2	0.4	0	98.017	45
STRIP LeftWall_917	11	11	11.6	0.4	0	101.46	45
STRIP LeftWall_917	11	11	12	0.4	0	104.9	45
STRIP LeftWall_917	11	11	12.4	0.4	0	108.33	45
STRIP LeftWall_917	11	11	12.8	0.4	0	111.77	45
STRIP LeftWall_917	11	11	13.2	0.4	0	115.21	45
STRIP LeftWall_917	11	11	13.6	0.4	0	118.65	45
STRIP LeftWall_917	11	11	14	0.4	0	122.09	45
STRIP LeftWall_917	11	11	14.4	0.4	0	125.53	45
STRIP LeftWall_917	11	11	14.8	0.4	0	128.97	45
STRIP LeftWall_917	11	11	15.2	0.4	0	132.41	45
STRIP LeftWall_917	11	11	15.6	0.4	0	135.85	45
STRIP LeftWall_917	11	11	16	0.4	0	139.29	45
STRIP LeftWall_917	11	11	16.4	0.4	0	142.73	45
STRIP LeftWall_917	11	11	16.8	0.4	0	146.17	45
STRIP LeftWall_917	11	11	17.2	0.4	0	149.61	45
STRIP LeftWall_917	11	11	17.6	0.4	0	153.04	45
STRIP LeftWall_917	11	11	18	0.4	0	156.48	45
STRIP LeftWall_917	11	11	18.4	0.4	0	159.92	45
STRIP LeftWall_917	11	11	18.8	0.4	0	163.36	45
STRIP LeftWall_917	11	11	19.2	0.4	0	166.8	45
STRIP LeftWall_917	11	11	19.6	0.4	0	170.24	45
STRIP LeftWall_917	11	11	20	0.4	0	173.68	45
STRIP LeftWall_917	11	11	20.4	0.4	0	177.12	45
STRIP LeftWall_917	11	11	20.8	0.4	0	180.56	45
STRIP LeftWall_917	11	11	21.2	0.4	0	184	45
STRIP LeftWall_917	11	11	21.6	0.4	0	187.44	45
STRIP LeftWall_917	11	11	22	0.4	0	190.88	45
STRIP LeftWall_917	11	11	22.4	0.4	0	194.31	45
STRIP LeftWall_917	11	11	22.8	0.4	0	197.75	45
STRIP LeftWall_917	11	11	23.2	0.4	0	201.19	45
STRIP LeftWall_917	11	11	23.6	0.4	0	204.63	45
STRIP LeftWall_917	11	11	24	0.4	0	208.07	45
STRIP LeftWall_917	11	11	24.4	0.4	0	211.51	45
STRIP LeftWall_917	11	11	24.8	0.4	0	214.95	45
STRIP LeftWall_917	11	11	25.2	0.4	0	218.39	45
STRIP LeftWall_917	11	11	25.6	0.4	0	221.83	45
STRIP LeftWall_917	11	11	26	0.4	0	225.27	45
STRIP LeftWall_917	11	11	26.4	0.4	0	228.71	45
STRIP LeftWall_917	11	11	26.8	0.4	0	232.15	45
STRIP LeftWall_917	11	11	27.2	0.4	0	235.59	45
STRIP LeftWall_917	11	11	27.6	0.4	0	239.02	45
STRIP LeftWall_917	11	11	28	0.4	0	242.46	45
STRIP LeftWall_917	11	11	28.4	0.4	0	245.9	45
STRIP LeftWall_917	11	11	28.8	0.4	0	249.34	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 11 11 29.2 0.4 0 252.78 45
STRIP LeftWall_917 11 11 29.6 0.4 0 256.22 45
STRIP LeftWall_917 12 12 0 0.4 0 1.7196 45
STRIP LeftWall_917 12 12 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 12 12 0.8 0.4 0 8.598 45
STRIP LeftWall_917 12 12 1.2 0.4 0 12.037 45
STRIP LeftWall_917 12 12 1.6 0.4 0 15.476 45
STRIP LeftWall_917 12 12 2 0.4 0 18.916 45
STRIP LeftWall_917 12 12 2.4 0.4 0 22.355 45
STRIP LeftWall_917 12 12 2.8 0.4 0 25.794 45
STRIP LeftWall_917 12 12 3.2 0.4 0 29.233 45
STRIP LeftWall_917 12 12 3.6 0.4 0 32.672 45
STRIP LeftWall_917 12 12 4 0.4 0 36.112 45
STRIP LeftWall_917 12 12 4.4 0.4 0 39.551 45
STRIP LeftWall_917 12 12 4.8 0.4 0 42.99 45
STRIP LeftWall_917 12 12 5.2 0.4 0 46.429 45
STRIP LeftWall_917 12 12 5.6 0.4 0 49.868 45
STRIP LeftWall_917 12 12 6 0.4 0 53.308 45
STRIP LeftWall_917 12 12 6.4 0.4 0 56.747 45
STRIP LeftWall_917 12 12 6.8 0.4 0 60.186 45
STRIP LeftWall_917 12 12 7.2 0.4 0 63.625 45
STRIP LeftWall_917 12 12 7.6 0.4 0 67.064 45
STRIP LeftWall_917 12 12 8 0.4 0 70.504 45
STRIP LeftWall_917 12 12 8.4 0.4 0 73.943 45
STRIP LeftWall_917 12 12 8.8 0.4 0 77.382 45
STRIP LeftWall_917 12 12 9.2 0.4 0 80.821 45
STRIP LeftWall_917 12 12 9.6 0.4 0 84.26 45
STRIP LeftWall_917 12 12 10 0.4 0 87.7 45
STRIP LeftWall_917 12 12 10.4 0.4 0 91.139 45
STRIP LeftWall_917 12 12 10.8 0.4 0 94.578 45
STRIP LeftWall_917 12 12 11.2 0.4 0 98.017 45
STRIP LeftWall_917 12 12 11.6 0.4 0 101.46 45
STRIP LeftWall_917 12 12 12 0.4 0 104.9 45
STRIP LeftWall_917 12 12 12.4 0.4 0 108.33 45
STRIP LeftWall_917 12 12 12.8 0.4 0 111.77 45
STRIP LeftWall_917 12 12 13.2 0.4 0 115.21 45
STRIP LeftWall_917 12 12 13.6 0.4 0 118.65 45
STRIP LeftWall_917 12 12 14 0.4 0 122.09 45
STRIP LeftWall_917 12 12 14.4 0.4 0 125.53 45
STRIP LeftWall_917 12 12 14.8 0.4 0 128.97 45
STRIP LeftWall_917 12 12 15.2 0.4 0 132.41 45
STRIP LeftWall_917 12 12 15.6 0.4 0 135.85 45
STRIP LeftWall_917 12 12 16 0.4 0 139.29 45
STRIP LeftWall_917 12 12 16.4 0.4 0 142.73 45
STRIP LeftWall_917 12 12 16.8 0.4 0 146.17 45
STRIP LeftWall_917 12 12 17.2 0.4 0 149.61 45
STRIP LeftWall_917 12 12 17.6 0.4 0 153.04 45
STRIP LeftWall_917 12 12 18 0.4 0 156.48 45
STRIP LeftWall_917 12 12 18.4 0.4 0 159.92 45
STRIP LeftWall_917 12 12 18.8 0.4 0 163.36 45
STRIP LeftWall_917 12 12 19.2 0.4 0 166.8 45
STRIP LeftWall_917 12 12 19.6 0.4 0 170.24 45
STRIP LeftWall_917 12 12 20 0.4 0 173.68 45
STRIP LeftWall_917 12 12 20.4 0.4 0 177.12 45
STRIP LeftWall_917 12 12 20.8 0.4 0 180.56 45
STRIP LeftWall_917 12 12 21.2 0.4 0 184 45
STRIP LeftWall_917 12 12 21.6 0.4 0 187.44 45
STRIP LeftWall_917 12 12 22 0.4 0 190.88 45
STRIP LeftWall_917 12 12 22.4 0.4 0 194.31 45
STRIP LeftWall_917 12 12 22.8 0.4 0 197.75 45
STRIP LeftWall_917 12 12 23.2 0.4 0 201.19 45
STRIP LeftWall_917 12 12 23.6 0.4 0 204.63 45
STRIP LeftWall_917 12 12 24 0.4 0 208.07 45
STRIP LeftWall_917 12 12 24.4 0.4 0 211.51 45
STRIP LeftWall_917 12 12 24.8 0.4 0 214.95 45
STRIP LeftWall_917 12 12 25.2 0.4 0 218.39 45
STRIP LeftWall_917 12 12 25.6 0.4 0 221.83 45
STRIP LeftWall_917 12 12 26 0.4 0 225.27 45
STRIP LeftWall_917 12 12 26.4 0.4 0 228.71 45
STRIP LeftWall_917 12 12 26.8 0.4 0 232.15 45
STRIP LeftWall_917 12 12 27.2 0.4 0 235.59 45
STRIP LeftWall_917 12 12 27.6 0.4 0 239.02 45
STRIP LeftWall_917 12 12 28 0.4 0 242.46 45
STRIP LeftWall_917 12 12 28.4 0.4 0 245.9 45
STRIP LeftWall_917 12 12 28.8 0.4 0 249.34 45
STRIP LeftWall_917 12 12 29.2 0.4 0 252.78 45
STRIP LeftWall_917 12 12 29.6 0.4 0 256.22 45
STRIP LeftWall_917 13 13 0 0.4 0 1.7196 45
STRIP LeftWall_917 13 13 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 13 13 0.8 0.4 0 8.598 45
STRIP LeftWall_917 13 13 1.2 0.4 0 12.037 45
STRIP LeftWall_917 13 13 1.6 0.4 0 15.476 45
STRIP LeftWall_917 13 13 2 0.4 0 18.916 45
STRIP LeftWall_917 13 13 2.4 0.4 0 22.355 45
STRIP LeftWall_917 13 13 2.8 0.4 0 25.794 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 13 13 3.2 0.4 0 29.233 45
STRIP LeftWall_917 13 13 3.6 0.4 0 32.672 45
STRIP LeftWall_917 13 13 4 0.4 0 36.112 45
STRIP LeftWall_917 13 13 4.4 0.4 0 39.551 45
STRIP LeftWall_917 13 13 4.8 0.4 0 42.99 45
STRIP LeftWall_917 13 13 5.2 0.4 0 46.429 45
STRIP LeftWall_917 13 13 5.6 0.4 0 49.868 45
STRIP LeftWall_917 13 13 6 0.4 0 53.308 45
STRIP LeftWall_917 13 13 6.4 0.4 0 56.747 45
STRIP LeftWall_917 13 13 6.8 0.4 0 60.186 45
STRIP LeftWall_917 13 13 7.2 0.4 0 63.625 45
STRIP LeftWall_917 13 13 7.6 0.4 0 67.064 45
STRIP LeftWall_917 13 13 8 0.4 0 70.504 45
STRIP LeftWall_917 13 13 8.4 0.4 0 73.943 45
STRIP LeftWall_917 13 13 8.8 0.4 0 77.382 45
STRIP LeftWall_917 13 13 9.2 0.4 0 80.821 45
STRIP LeftWall_917 13 13 9.6 0.4 0 84.26 45
STRIP LeftWall_917 13 13 10 0.4 0 87.7 45
STRIP LeftWall_917 13 13 10.4 0.4 0 91.139 45
STRIP LeftWall_917 13 13 10.8 0.4 0 94.578 45
STRIP LeftWall_917 13 13 11.2 0.4 0 98.017 45
STRIP LeftWall_917 13 13 11.6 0.4 0 101.46 45
STRIP LeftWall_917 13 13 12 0.4 0 104.9 45
STRIP LeftWall_917 13 13 12.4 0.4 0 108.33 45
STRIP LeftWall_917 13 13 12.8 0.4 0 111.77 45
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STRIP LeftWall_917 13 13 13.6 0.4 0 118.65 45
STRIP LeftWall_917 13 13 14 0.4 0 122.09 45
STRIP LeftWall_917 13 13 14.4 0.4 0 125.53 45
STRIP LeftWall_917 13 13 14.8 0.4 0 128.97 45
STRIP LeftWall_917 13 13 15.2 0.4 0 132.41 45
STRIP LeftWall_917 13 13 15.6 0.4 0 135.85 45
STRIP LeftWall_917 13 13 16 0.4 0 139.29 45
STRIP LeftWall_917 13 13 16.4 0.4 0 142.73 45
STRIP LeftWall_917 13 13 16.8 0.4 0 146.17 45
STRIP LeftWall_917 13 13 17.2 0.4 0 149.61 45
STRIP LeftWall_917 13 13 17.6 0.4 0 153.04 45
STRIP LeftWall_917 13 13 18 0.4 0 156.48 45
STRIP LeftWall_917 13 13 18.4 0.4 0 159.92 45
STRIP LeftWall_917 13 13 18.8 0.4 0 163.36 45
STRIP LeftWall_917 13 13 19.2 0.4 0 166.8 45
STRIP LeftWall_917 13 13 19.6 0.4 0 170.24 45
STRIP LeftWall_917 13 13 20 0.4 0 173.68 45
STRIP LeftWall_917 13 13 20.4 0.4 0 177.12 45
STRIP LeftWall_917 13 13 20.8 0.4 0 180.56 45
STRIP LeftWall_917 13 13 21.2 0.4 0 184 45
STRIP LeftWall_917 13 13 21.6 0.4 0 187.44 45
STRIP LeftWall_917 13 13 22 0.4 0 190.88 45
STRIP LeftWall_917 13 13 22.4 0.4 0 194.31 45
STRIP LeftWall_917 13 13 22.8 0.4 0 197.75 45
STRIP LeftWall_917 13 13 23.2 0.4 0 201.19 45
STRIP LeftWall_917 13 13 23.6 0.4 0 204.63 45
STRIP LeftWall_917 13 13 24 0.4 0 208.07 45
STRIP LeftWall_917 13 13 24.4 0.4 0 211.51 45
STRIP LeftWall_917 13 13 24.8 0.4 0 214.95 45
STRIP LeftWall_917 13 13 25.2 0.4 0 218.39 45
STRIP LeftWall_917 13 13 25.6 0.4 0 221.83 45
STRIP LeftWall_917 13 13 26 0.4 0 225.27 45
STRIP LeftWall_917 13 13 26.4 0.4 0 228.71 45
STRIP LeftWall_917 13 13 26.8 0.4 0 232.15 45
STRIP LeftWall_917 13 13 27.2 0.4 0 235.59 45
STRIP LeftWall_917 13 13 27.6 0.4 0 239.02 45
STRIP LeftWall_917 13 13 28 0.4 0 242.46 45
STRIP LeftWall_917 13 13 28.4 0.4 0 245.9 45
STRIP LeftWall_917 13 13 28.8 0.4 0 249.34 45
STRIP LeftWall_917 13 13 29.2 0.4 0 252.78 45
STRIP LeftWall_917 13 13 29.6 0.4 0 256.22 45
STRIP LeftWall_917 14 14 0 0.4 0 1.7196 45
STRIP LeftWall_917 14 14 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 14 14 0.8 0.4 0 8.598 45
STRIP LeftWall_917 14 14 1.2 0.4 0 12.037 45
STRIP LeftWall_917 14 14 1.6 0.4 0 15.476 45
STRIP LeftWall_917 14 14 2 0.4 0 18.916 45
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STRIP LeftWall_917 14 14 2.8 0.4 0 25.794 45
STRIP LeftWall_917 14 14 3.2 0.4 0 29.233 45
STRIP LeftWall_917 14 14 3.6 0.4 0 32.672 45
STRIP LeftWall_917 14 14 4 0.4 0 36.112 45
STRIP LeftWall_917 14 14 4.4 0.4 0 39.551 45
STRIP LeftWall_917 14 14 4.8 0.4 0 42.99 45
STRIP LeftWall_917 14 14 5.2 0.4 0 46.429 45
STRIP LeftWall_917 14 14 5.6 0.4 0 49.868 45
STRIP LeftWall_917 14 14 6 0.4 0 53.308 45
STRIP LeftWall_917 14 14 6.4 0.4 0 56.747 45
STRIP LeftWall_917 14 14 6.8 0.4 0 60.186 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 14 14 7.2 0.4 0 63.625 45
STRIP LeftWall_917 14 14 7.6 0.4 0 67.064 45
STRIP LeftWall_917 14 14 8 0.4 0 70.504 45
STRIP LeftWall_917 14 14 8.4 0.4 0 73.943 45
STRIP LeftWall_917 14 14 8.8 0.4 0 77.382 45
STRIP LeftWall_917 14 14 9.2 0.4 0 80.821 45
STRIP LeftWall_917 14 14 9.6 0.4 0 84.26 45
STRIP LeftWall_917 14 14 10 0.4 0 87.7 45
STRIP LeftWall_917 14 14 10.4 0.4 0 91.139 45
STRIP LeftWall_917 14 14 10.8 0.4 0 94.578 45
STRIP LeftWall_917 14 14 11.2 0.4 0 98.017 45
STRIP LeftWall_917 14 14 11.6 0.4 0 101.46 45
STRIP LeftWall_917 14 14 12 0.4 0 104.9 45
STRIP LeftWall_917 14 14 12.4 0.4 0 108.33 45
STRIP LeftWall_917 14 14 12.8 0.4 0 111.77 45
STRIP LeftWall_917 14 14 13.2 0.4 0 115.21 45
STRIP LeftWall_917 14 14 13.6 0.4 0 118.65 45
STRIP LeftWall_917 14 14 14 0.4 0 122.09 45
STRIP LeftWall_917 14 14 14.4 0.4 0 125.53 45
STRIP LeftWall_917 14 14 14.8 0.4 0 128.97 45
STRIP LeftWall_917 14 14 15.2 0.4 0 132.41 45
STRIP LeftWall_917 14 14 15.6 0.4 0 135.85 45
STRIP LeftWall_917 14 14 16 0.4 0 139.29 45
STRIP LeftWall_917 14 14 16.4 0.4 0 142.73 45
STRIP LeftWall_917 14 14 16.8 0.4 0 146.17 45
STRIP LeftWall_917 14 14 17.2 0.4 0 149.61 45
STRIP LeftWall_917 14 14 17.6 0.4 0 153.04 45
STRIP LeftWall_917 14 14 18 0.4 0 156.48 45
STRIP LeftWall_917 14 14 18.4 0.4 0 159.92 45
STRIP LeftWall_917 14 14 18.8 0.4 0 163.36 45
STRIP LeftWall_917 14 14 19.2 0.4 0 166.8 45
STRIP LeftWall_917 14 14 19.6 0.4 0 170.24 45
STRIP LeftWall_917 14 14 20 0.4 0 173.68 45
STRIP LeftWall_917 14 14 20.4 0.4 0 177.12 45
STRIP LeftWall_917 14 14 20.8 0.4 0 180.56 45
STRIP LeftWall_917 14 14 21.2 0.4 0 184 45
STRIP LeftWall_917 14 14 21.6 0.4 0 187.44 45
STRIP LeftWall_917 14 14 22 0.4 0 190.88 45
STRIP LeftWall_917 14 14 22.4 0.4 0 194.31 45
STRIP LeftWall_917 14 14 22.8 0.4 0 197.75 45
STRIP LeftWall_917 14 14 23.2 0.4 0 201.19 45
STRIP LeftWall_917 14 14 23.6 0.4 0 204.63 45
STRIP LeftWall_917 14 14 24 0.4 0 208.07 45
STRIP LeftWall_917 14 14 24.4 0.4 0 211.51 45
STRIP LeftWall_917 14 14 24.8 0.4 0 214.95 45
STRIP LeftWall_917 14 14 25.2 0.4 0 218.39 45
STRIP LeftWall_917 14 14 25.6 0.4 0 221.83 45
STRIP LeftWall_917 14 14 26 0.4 0 225.27 45
STRIP LeftWall_917 14 14 26.4 0.4 0 228.71 45
STRIP LeftWall_917 14 14 26.8 0.4 0 232.15 45
STRIP LeftWall_917 14 14 27.2 0.4 0 235.59 45
STRIP LeftWall_917 14 14 27.6 0.4 0 239.02 45
STRIP LeftWall_917 14 14 28 0.4 0 242.46 45
STRIP LeftWall_917 14 14 28.4 0.4 0 245.9 45
STRIP LeftWall_917 14 14 28.8 0.4 0 249.34 45
STRIP LeftWall_917 14 14 29.2 0.4 0 252.78 45
STRIP LeftWall_917 14 14 29.6 0.4 0 256.22 45

* 7: Defining Steps

STEP Stepn.0Condizioniniziali_924
CHANGE Coltredeiritica_2_905_L_0 U-FRICT=30 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-FRICT=30 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KA=0.333 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KP=4.288 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KA=0.333 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KP=4.288 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KP=5.879 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KP=5.879 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-COHE=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-ADHES=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-COHE=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-ADHES=0 LeftWall_917
SETWALL LeftWall_917
GEOM 0 0
SURCHARGE 0 0 0 0
WATER -30 0 -18 0 0
ADD LeftWallElement_1092

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.1Fasediscavo1-Fase1_935
SETWALL LeftWall_917
GEOM 0 -3.8
SURCHARGE 0 0 0 -3.5
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.2Fasediscavo1-Fase2_953
SETWALL LeftWall_917
GEOM 0 -3.8
SURCHARGE 0 0 0 -3.5
WATER -30 0 -18 0 0
ADD Tirantiesistenti+591.00_965
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.3Fasediscavo2-Fase1_973
SETWALL LeftWall_917
GEOM 0 -7.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.4Fasediscavo2-Fase2_991
SETWALL LeftWall_917
GEOM 0 -7.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
ADD Tirantiesistenti+587.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.5Fasediscavo3-Fase1_7442
SETWALL LeftWall_917
GEOM 0 -10.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.6Fasediscavo3-Fase2_8893
SETWALL LeftWall_917
GEOM 0 -10.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
ADD Tirantiesistenti+584.00_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.7Fasefinalediscavoes_1011
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.8Primotirantenuovo_1029
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
ADD TirantinuoviT1_3735
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.9Secondotirantenuovo_1049
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
ADD TirantinuoviT2_10346
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.10Terzotirantenuovo_10348
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

```
ADD Tirantinuovit3_10599
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage11Rilasciotirantiesis_3737
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
REMOVE Tirantiesistenti+591.00_965 Tirantiesistenti+587.00_1003
REMOVE Tirantiesistenti+584.00_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage12Scavodiprogetto_98268
SETWALL LeftWall_917
GEOM 0 -14.5
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage13Sisma_100691
SETWALL LeftWall_917
GEOM 0 -14.5
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
CHANGE Coltredeiritica_2_905_L_0 U-KAED=0.59647 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KAEW=1.0372 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KPED=3.9463 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KPEW=2.4763 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KAED=0.52506 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KAEW=1.2417 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KPED=2.627 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KPEW=0.85515 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KAED=0.5003 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KAEW=0.7327 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KPED=5.5548 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KPEW=4.3355 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KAED=0.4404 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KAEW=0.7799 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KPED=3.7695 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KPEW=2.3816 LeftWall_917
EQK USER 0.2897 0.14485 -0.14485 25.532 0.5 0 0.5 0 0
* Defining seismic surcharge pressures on wall LeftWall_917
*   min elevation = -14.5
*   max elevation = 0
*   average gamma = 20.3793103448276
*   kh = 0.2897
*   deltaQ = 465.484528125
DLOAD step LeftWall_917 -14.5 32.102 0 32.102
* Include pressure contribution from wall: LeftWall_917
* Include wall contribution
DLOAD step LeftWall_917 -14.5 0.41256 0 0.41256
VARIABLE LeftWallElement_1092 0.5
** SUBINCREMENT LOGIC - active since June 2019
SUBINCREMENTS 2
ENDSTEP
```

11.6 Design Assumption : NTC2018: SISMICA GEO - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: NTC2018: SISMICA GEO
* Time:mercoledì 14 dicembre 2022 10:36:15
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_917 0 -18 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_917 -18 0 1 0
SOIL 0_R LeftWall_917 -18 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Coltredeiritica_2_905_L_0)
*
LDATA Coltredeiritica_2_905_L_0 30 LeftWall_917
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
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Progetto Esecutivo**

```
ATREST 0.5 0.5 1
WEIGHT 18 10 10
PERMEABILITY 1E-05
RESISTANCE 0 30 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 30000 48000
ENDL
*
* Soil Profile (Marnaarenacea_8_906_L_0)
*
LDATA Marnaarenacea_8_906_L_0 -3 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 21 13 10
PERMEABILITY 0.0001
RESISTANCE 100 35 0 0 0
TZDATA LINEAR 20000 0 30 0.5 0
KSCALE 0 0
YOUNG 1E+06 1.6E+06
ENDL

* 5: Defining structural materials
* Rebar material: 54 Name=Strands 270 ksi E=200100000 kPa
MATERIAL Strands270ksi_54 2.001E+08
* Concrete material: 1093 Name=C20/25 E=29962000 kPa
MATERIAL C2025_1093 2.9962E+07
* Steel material: 43 Name=Fe510 E=206000200 kPa
MATERIAL Fe510_43 2.06E+08

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later
BEAM LeftWallElement_1092 LeftWall_917 -18 0 Fe510_43 0.080792 0.018495 4.3946E-05 1.4241 00 00 0

* 6.2: Supports
WIRE Tirantiesistenti+591.00_965 LeftWall_917 -3.3 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+587.00_1003 LeftWall_917 -7.3 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+584.00_3643 LeftWall_917 -10.3 Strands270ksi_54 1.9501E-05 62.5 15 0 0
WIRE TirantinuoviT1_3735 LeftWall_917 -1.8 Strands270ksi_54 1.611E-05 62.5 15 0 0
WIRE TirantinuoviT2_10346 LeftWall_917 -5.3 Strands270ksi_54 1.611E-05 62.5 15 0 0
WIRE TirantinuoviT3_10599 LeftWall_917 -12.3 Strands270ksi_54 1.9501E-05 62.5 15 0 0

* 6.3: Strips

* (slope contribution)
STRIP LeftWall_917 1 1 0 0.4 0 1.7196 45
STRIP LeftWall_917 1 1 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 1 1 0.8 0.4 0 8.598 45
STRIP LeftWall_917 1 1 1.2 0.4 0 12.037 45
STRIP LeftWall_917 1 1 1.6 0.4 0 15.476 45
STRIP LeftWall_917 1 1 2 0.4 0 18.916 45
STRIP LeftWall_917 1 1 2.4 0.4 0 22.355 45
STRIP LeftWall_917 1 1 2.8 0.4 0 25.794 45
STRIP LeftWall_917 1 1 3.2 0.4 0 29.233 45
STRIP LeftWall_917 1 1 3.6 0.4 0 32.672 45
STRIP LeftWall_917 1 1 4 0.4 0 36.112 45
STRIP LeftWall_917 1 1 4.4 0.4 0 39.551 45
STRIP LeftWall_917 1 1 4.8 0.4 0 42.99 45
STRIP LeftWall_917 1 1 5.2 0.4 0 46.429 45
STRIP LeftWall_917 1 1 5.6 0.4 0 49.868 45
STRIP LeftWall_917 1 1 6 0.4 0 53.308 45
STRIP LeftWall_917 1 1 6.4 0.4 0 56.747 45
STRIP LeftWall_917 1 1 6.8 0.4 0 60.186 45
STRIP LeftWall_917 1 1 7.2 0.4 0 63.625 45
STRIP LeftWall_917 1 1 7.6 0.4 0 67.064 45
STRIP LeftWall_917 1 1 8 0.4 0 70.504 45
STRIP LeftWall_917 1 1 8.4 0.4 0 73.943 45
STRIP LeftWall_917 1 1 8.8 0.4 0 77.382 45
STRIP LeftWall_917 1 1 9.2 0.4 0 80.821 45
STRIP LeftWall_917 1 1 9.6 0.4 0 84.26 45
STRIP LeftWall_917 1 1 10 0.4 0 87.7 45
STRIP LeftWall_917 1 1 10.4 0.4 0 91.139 45
STRIP LeftWall_917 1 1 10.8 0.4 0 94.578 45
STRIP LeftWall_917 1 1 11.2 0.4 0 98.017 45
STRIP LeftWall_917 1 1 11.6 0.4 0 101.46 45
STRIP LeftWall_917 1 1 12 0.4 0 104.9 45
STRIP LeftWall_917 1 1 12.4 0.4 0 108.33 45
STRIP LeftWall_917 1 1 12.8 0.4 0 111.77 45
STRIP LeftWall_917 1 1 13.2 0.4 0 115.21 45
STRIP LeftWall_917 1 1 13.6 0.4 0 118.65 45
STRIP LeftWall_917 1 1 14 0.4 0 122.09 45
STRIP LeftWall_917 1 1 14.4 0.4 0 125.53 45
STRIP LeftWall_917 1 1 14.8 0.4 0 128.97 45
STRIP LeftWall_917 1 1 15.2 0.4 0 132.41 45
STRIP LeftWall_917 1 1 15.6 0.4 0 135.85 45
STRIP LeftWall_917 1 1 16 0.4 0 139.29 45
STRIP LeftWall_917 1 1 16.4 0.4 0 142.73 45
STRIP LeftWall_917 1 1 16.8 0.4 0 146.17 45
STRIP LeftWall_917 1 1 17.2 0.4 0 149.61 45
STRIP LeftWall_917 1 1 17.6 0.4 0 153.04 45
STRIP LeftWall_917 1 1 18 0.4 0 156.48 45
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



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Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917	1	1	18.4	0.4	0	159.92	45
STRIP LeftWall_917	1	1	18.8	0.4	0	163.36	45
STRIP LeftWall_917	1	1	19.2	0.4	0	166.8	45
STRIP LeftWall_917	1	1	19.6	0.4	0	170.24	45
STRIP LeftWall_917	1	1	20	0.4	0	173.68	45
STRIP LeftWall_917	1	1	20.4	0.4	0	177.12	45
STRIP LeftWall_917	1	1	20.8	0.4	0	180.56	45
STRIP LeftWall_917	1	1	21.2	0.4	0	184	45
STRIP LeftWall_917	1	1	21.6	0.4	0	187.44	45
STRIP LeftWall_917	1	1	22	0.4	0	190.88	45
STRIP LeftWall_917	1	1	22.4	0.4	0	194.31	45
STRIP LeftWall_917	1	1	22.8	0.4	0	197.75	45
STRIP LeftWall_917	1	1	23.2	0.4	0	201.19	45
STRIP LeftWall_917	1	1	23.6	0.4	0	204.63	45
STRIP LeftWall_917	1	1	24	0.4	0	208.07	45
STRIP LeftWall_917	1	1	24.4	0.4	0	211.51	45
STRIP LeftWall_917	1	1	24.8	0.4	0	214.95	45
STRIP LeftWall_917	1	1	25.2	0.4	0	218.39	45
STRIP LeftWall_917	1	1	25.6	0.4	0	221.83	45
STRIP LeftWall_917	1	1	26	0.4	0	225.27	45
STRIP LeftWall_917	1	1	26.4	0.4	0	228.71	45
STRIP LeftWall_917	1	1	26.8	0.4	0	232.15	45
STRIP LeftWall_917	1	1	27.2	0.4	0	235.59	45
STRIP LeftWall_917	1	1	27.6	0.4	0	239.02	45
STRIP LeftWall_917	1	1	28	0.4	0	242.46	45
STRIP LeftWall_917	1	1	28.4	0.4	0	245.9	45
STRIP LeftWall_917	1	1	28.8	0.4	0	249.34	45
STRIP LeftWall_917	1	1	29.2	0.4	0	252.78	45
STRIP LeftWall_917	1	1	29.6	0.4	0	256.22	45
STRIP LeftWall_917	2	2	0	0.4	0	1.7196	45
STRIP LeftWall_917	2	2	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	2	2	0.8	0.4	0	8.598	45
STRIP LeftWall_917	2	2	1.2	0.4	0	12.037	45
STRIP LeftWall_917	2	2	1.6	0.4	0	15.476	45
STRIP LeftWall_917	2	2	2	0.4	0	18.916	45
STRIP LeftWall_917	2	2	2.4	0.4	0	22.355	45
STRIP LeftWall_917	2	2	2.8	0.4	0	25.794	45
STRIP LeftWall_917	2	2	3.2	0.4	0	29.233	45
STRIP LeftWall_917	2	2	3.6	0.4	0	32.672	45
STRIP LeftWall_917	2	2	4	0.4	0	36.112	45
STRIP LeftWall_917	2	2	4.4	0.4	0	39.551	45
STRIP LeftWall_917	2	2	4.8	0.4	0	42.99	45
STRIP LeftWall_917	2	2	5.2	0.4	0	46.429	45
STRIP LeftWall_917	2	2	5.6	0.4	0	49.868	45
STRIP LeftWall_917	2	2	6	0.4	0	53.308	45
STRIP LeftWall_917	2	2	6.4	0.4	0	56.747	45
STRIP LeftWall_917	2	2	6.8	0.4	0	60.186	45
STRIP LeftWall_917	2	2	7.2	0.4	0	63.625	45
STRIP LeftWall_917	2	2	7.6	0.4	0	67.064	45
STRIP LeftWall_917	2	2	8	0.4	0	70.504	45
STRIP LeftWall_917	2	2	8.4	0.4	0	73.943	45
STRIP LeftWall_917	2	2	8.8	0.4	0	77.382	45
STRIP LeftWall_917	2	2	9.2	0.4	0	80.821	45
STRIP LeftWall_917	2	2	9.6	0.4	0	84.26	45
STRIP LeftWall_917	2	2	10	0.4	0	87.7	45
STRIP LeftWall_917	2	2	10.4	0.4	0	91.139	45
STRIP LeftWall_917	2	2	10.8	0.4	0	94.578	45
STRIP LeftWall_917	2	2	11.2	0.4	0	98.017	45
STRIP LeftWall_917	2	2	11.6	0.4	0	101.46	45
STRIP LeftWall_917	2	2	12	0.4	0	104.9	45
STRIP LeftWall_917	2	2	12.4	0.4	0	108.33	45
STRIP LeftWall_917	2	2	12.8	0.4	0	111.77	45
STRIP LeftWall_917	2	2	13.2	0.4	0	115.21	45
STRIP LeftWall_917	2	2	13.6	0.4	0	118.65	45
STRIP LeftWall_917	2	2	14	0.4	0	122.09	45
STRIP LeftWall_917	2	2	14.4	0.4	0	125.53	45
STRIP LeftWall_917	2	2	14.8	0.4	0	128.97	45
STRIP LeftWall_917	2	2	15.2	0.4	0	132.41	45
STRIP LeftWall_917	2	2	15.6	0.4	0	135.85	45
STRIP LeftWall_917	2	2	16	0.4	0	139.29	45
STRIP LeftWall_917	2	2	16.4	0.4	0	142.73	45
STRIP LeftWall_917	2	2	16.8	0.4	0	146.17	45
STRIP LeftWall_917	2	2	17.2	0.4	0	149.61	45
STRIP LeftWall_917	2	2	17.6	0.4	0	153.04	45
STRIP LeftWall_917	2	2	18	0.4	0	156.48	45
STRIP LeftWall_917	2	2	18.4	0.4	0	159.92	45
STRIP LeftWall_917	2	2	18.8	0.4	0	163.36	45
STRIP LeftWall_917	2	2	19.2	0.4	0	166.8	45
STRIP LeftWall_917	2	2	19.6	0.4	0	170.24	45
STRIP LeftWall_917	2	2	20	0.4	0	173.68	45
STRIP LeftWall_917	2	2	20.4	0.4	0	177.12	45
STRIP LeftWall_917	2	2	20.8	0.4	0	180.56	45
STRIP LeftWall_917	2	2	21.2	0.4	0	184	45
STRIP LeftWall_917	2	2	21.6	0.4	0	187.44	45
STRIP LeftWall_917	2	2	22	0.4	0	190.88	45
STRIP LeftWall_917	2	2	22.4	0.4	0	194.31	45
STRIP LeftWall_917	2	2	22.8	0.4	0	197.75	45
STRIP LeftWall_917	2	2	23.2	0.4	0	201.19	45
STRIP LeftWall_917	2	2	23.6	0.4	0	204.63	45
STRIP LeftWall_917	2	2	24	0.4	0	208.07	45
STRIP LeftWall_917	2	2	24.4	0.4	0	211.51	45
STRIP LeftWall_917	2	2	24.8	0.4	0	214.95	45
STRIP LeftWall_917	2	2	25.2	0.4	0	218.39	45
STRIP LeftWall_917	2	2	25.6	0.4	0	221.83	45
STRIP LeftWall_917	2	2	26	0.4	0	225.27	45
STRIP LeftWall_917	2	2	26.4	0.4	0	228.71	45
STRIP LeftWall_917	2	2	26.8	0.4	0	232.15	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaiba
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP	LeftWall_917	2	2	27.2	0.4	0	235.59	45
STRIP	LeftWall_917	2	2	27.6	0.4	0	239.02	45
STRIP	LeftWall_917	2	2	28	0.4	0	242.46	45
STRIP	LeftWall_917	2	2	28.4	0.4	0	245.9	45
STRIP	LeftWall_917	2	2	28.8	0.4	0	249.34	45
STRIP	LeftWall_917	2	2	29.2	0.4	0	252.78	45
STRIP	LeftWall_917	2	2	29.6	0.4	0	256.22	45
STRIP	LeftWall_917	3	3	0	0.4	0	1.7196	45
STRIP	LeftWall_917	3	3	0.4	0.4	0	5.1588	45
STRIP	LeftWall_917	3	3	0.8	0.4	0	8.598	45
STRIP	LeftWall_917	3	3	1.2	0.4	0	12.037	45
STRIP	LeftWall_917	3	3	1.6	0.4	0	15.476	45
STRIP	LeftWall_917	3	3	2	0.4	0	18.916	45
STRIP	LeftWall_917	3	3	2.4	0.4	0	22.355	45
STRIP	LeftWall_917	3	3	2.8	0.4	0	25.794	45
STRIP	LeftWall_917	3	3	3.2	0.4	0	29.233	45
STRIP	LeftWall_917	3	3	3.6	0.4	0	32.672	45
STRIP	LeftWall_917	3	3	4	0.4	0	36.112	45
STRIP	LeftWall_917	3	3	4.4	0.4	0	39.551	45
STRIP	LeftWall_917	3	3	4.8	0.4	0	42.99	45
STRIP	LeftWall_917	3	3	5.2	0.4	0	46.429	45
STRIP	LeftWall_917	3	3	5.6	0.4	0	49.868	45
STRIP	LeftWall_917	3	3	6	0.4	0	53.308	45
STRIP	LeftWall_917	3	3	6.4	0.4	0	56.747	45
STRIP	LeftWall_917	3	3	6.8	0.4	0	60.186	45
STRIP	LeftWall_917	3	3	7.2	0.4	0	63.625	45
STRIP	LeftWall_917	3	3	7.6	0.4	0	67.064	45
STRIP	LeftWall_917	3	3	8	0.4	0	70.504	45
STRIP	LeftWall_917	3	3	8.4	0.4	0	73.943	45
STRIP	LeftWall_917	3	3	8.8	0.4	0	77.382	45
STRIP	LeftWall_917	3	3	9.2	0.4	0	80.821	45
STRIP	LeftWall_917	3	3	9.6	0.4	0	84.26	45
STRIP	LeftWall_917	3	3	10	0.4	0	87.7	45
STRIP	LeftWall_917	3	3	10.4	0.4	0	91.139	45
STRIP	LeftWall_917	3	3	10.8	0.4	0	94.578	45
STRIP	LeftWall_917	3	3	11.2	0.4	0	98.017	45
STRIP	LeftWall_917	3	3	11.6	0.4	0	101.46	45
STRIP	LeftWall_917	3	3	12	0.4	0	104.9	45
STRIP	LeftWall_917	3	3	12.4	0.4	0	108.33	45
STRIP	LeftWall_917	3	3	12.8	0.4	0	111.77	45
STRIP	LeftWall_917	3	3	13.2	0.4	0	115.21	45
STRIP	LeftWall_917	3	3	13.6	0.4	0	118.65	45
STRIP	LeftWall_917	3	3	14	0.4	0	122.09	45
STRIP	LeftWall_917	3	3	14.4	0.4	0	125.53	45
STRIP	LeftWall_917	3	3	14.8	0.4	0	128.97	45
STRIP	LeftWall_917	3	3	15.2	0.4	0	132.41	45
STRIP	LeftWall_917	3	3	15.6	0.4	0	135.85	45
STRIP	LeftWall_917	3	3	16	0.4	0	139.29	45
STRIP	LeftWall_917	3	3	16.4	0.4	0	142.73	45
STRIP	LeftWall_917	3	3	16.8	0.4	0	146.17	45
STRIP	LeftWall_917	3	3	17.2	0.4	0	149.61	45
STRIP	LeftWall_917	3	3	17.6	0.4	0	153.04	45
STRIP	LeftWall_917	3	3	18	0.4	0	156.48	45
STRIP	LeftWall_917	3	3	18.4	0.4	0	159.92	45
STRIP	LeftWall_917	3	3	18.8	0.4	0	163.36	45
STRIP	LeftWall_917	3	3	19.2	0.4	0	166.8	45
STRIP	LeftWall_917	3	3	19.6	0.4	0	170.24	45
STRIP	LeftWall_917	3	3	20	0.4	0	173.68	45
STRIP	LeftWall_917	3	3	20.4	0.4	0	177.12	45
STRIP	LeftWall_917	3	3	20.8	0.4	0	180.56	45
STRIP	LeftWall_917	3	3	21.2	0.4	0	184	45
STRIP	LeftWall_917	3	3	21.6	0.4	0	187.44	45
STRIP	LeftWall_917	3	3	22	0.4	0	190.88	45
STRIP	LeftWall_917	3	3	22.4	0.4	0	194.31	45
STRIP	LeftWall_917	3	3	22.8	0.4	0	197.75	45
STRIP	LeftWall_917	3	3	23.2	0.4	0	201.19	45
STRIP	LeftWall_917	3	3	23.6	0.4	0	204.63	45
STRIP	LeftWall_917	3	3	24	0.4	0	208.07	45
STRIP	LeftWall_917	3	3	24.4	0.4	0	211.51	45
STRIP	LeftWall_917	3	3	24.8	0.4	0	214.95	45
STRIP	LeftWall_917	3	3	25.2	0.4	0	218.39	45
STRIP	LeftWall_917	3	3	25.6	0.4	0	221.83	45
STRIP	LeftWall_917	3	3	26	0.4	0	225.27	45
STRIP	LeftWall_917	3	3	26.4	0.4	0	228.71	45
STRIP	LeftWall_917	3	3	26.8	0.4	0	232.15	45
STRIP	LeftWall_917	3	3	27.2	0.4	0	235.59	45
STRIP	LeftWall_917	3	3	27.6	0.4	0	239.02	45
STRIP	LeftWall_917	3	3	28	0.4	0	242.46	45
STRIP	LeftWall_917	3	3	28.4	0.4	0	245.9	45
STRIP	LeftWall_917	3	3	28.8	0.4	0	249.34	45
STRIP	LeftWall_917	3	3	29.2	0.4	0	252.78	45
STRIP	LeftWall_917	3	3	29.6	0.4	0	256.22	45
STRIP	LeftWall_917	4	4	0	0.4	0	1.7196	45
STRIP	LeftWall_917	4	4	0.4	0.4	0	5.1588	45
STRIP	LeftWall_917	4	4	0.8	0.4	0	8.598	45
STRIP	LeftWall_917	4	4	1.2	0.4	0	12.037	45
STRIP	LeftWall_917	4	4	1.6	0.4	0	15.476	45
STRIP	LeftWall_917	4	4	2	0.4	0	18.916	45
STRIP	LeftWall_917	4	4	2.4	0.4	0	22.355	45
STRIP	LeftWall_917	4	4	2.8	0.4	0	25.794	45
STRIP	LeftWall_917	4	4	3.2	0.4	0	29.233	45
STRIP	LeftWall_917	4	4	3.6	0.4	0	32.672	45
STRIP	LeftWall_917	4	4	4	0.4	0	36.112	45
STRIP	LeftWall_917	4	4	4.4	0.4	0	39.551	45
STRIP	LeftWall_917	4	4	4.8	0.4	0	42.99	45
STRIP	LeftWall_917	4	4	5.2	0.4	0	46.429	45
STRIP	LeftWall_917	4	4	5.6	0.4	0	49.868	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:

Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917	4	4	6	0.4	0	53.308	45
STRIP LeftWall_917	4	4	6.4	0.4	0	56.747	45
STRIP LeftWall_917	4	4	6.8	0.4	0	60.186	45
STRIP LeftWall_917	4	4	7.2	0.4	0	63.625	45
STRIP LeftWall_917	4	4	7.6	0.4	0	67.064	45
STRIP LeftWall_917	4	4	8	0.4	0	70.504	45
STRIP LeftWall_917	4	4	8.4	0.4	0	73.943	45
STRIP LeftWall_917	4	4	8.8	0.4	0	77.382	45
STRIP LeftWall_917	4	4	9.2	0.4	0	80.821	45
STRIP LeftWall_917	4	4	9.6	0.4	0	84.26	45
STRIP LeftWall_917	4	4	10	0.4	0	87.7	45
STRIP LeftWall_917	4	4	10.4	0.4	0	91.139	45
STRIP LeftWall_917	4	4	10.8	0.4	0	94.578	45
STRIP LeftWall_917	4	4	11.2	0.4	0	98.017	45
STRIP LeftWall_917	4	4	11.6	0.4	0	101.46	45
STRIP LeftWall_917	4	4	12	0.4	0	104.9	45
STRIP LeftWall_917	4	4	12.4	0.4	0	108.33	45
STRIP LeftWall_917	4	4	12.8	0.4	0	111.77	45
STRIP LeftWall_917	4	4	13.2	0.4	0	115.21	45
STRIP LeftWall_917	4	4	13.6	0.4	0	118.65	45
STRIP LeftWall_917	4	4	14	0.4	0	122.09	45
STRIP LeftWall_917	4	4	14.4	0.4	0	125.53	45
STRIP LeftWall_917	4	4	14.8	0.4	0	128.97	45
STRIP LeftWall_917	4	4	15.2	0.4	0	132.41	45
STRIP LeftWall_917	4	4	15.6	0.4	0	135.85	45
STRIP LeftWall_917	4	4	16	0.4	0	139.29	45
STRIP LeftWall_917	4	4	16.4	0.4	0	142.73	45
STRIP LeftWall_917	4	4	16.8	0.4	0	146.17	45
STRIP LeftWall_917	4	4	17.2	0.4	0	149.61	45
STRIP LeftWall_917	4	4	17.6	0.4	0	153.04	45
STRIP LeftWall_917	4	4	18	0.4	0	156.48	45
STRIP LeftWall_917	4	4	18.4	0.4	0	159.92	45
STRIP LeftWall_917	4	4	18.8	0.4	0	163.36	45
STRIP LeftWall_917	4	4	19.2	0.4	0	166.8	45
STRIP LeftWall_917	4	4	19.6	0.4	0	170.24	45
STRIP LeftWall_917	4	4	20	0.4	0	173.68	45
STRIP LeftWall_917	4	4	20.4	0.4	0	177.12	45
STRIP LeftWall_917	4	4	20.8	0.4	0	180.56	45
STRIP LeftWall_917	4	4	21.2	0.4	0	184	45
STRIP LeftWall_917	4	4	21.6	0.4	0	187.44	45
STRIP LeftWall_917	4	4	22	0.4	0	190.88	45
STRIP LeftWall_917	4	4	22.4	0.4	0	194.31	45
STRIP LeftWall_917	4	4	22.8	0.4	0	197.75	45
STRIP LeftWall_917	4	4	23.2	0.4	0	201.19	45
STRIP LeftWall_917	4	4	23.6	0.4	0	204.63	45
STRIP LeftWall_917	4	4	24	0.4	0	208.07	45
STRIP LeftWall_917	4	4	24.4	0.4	0	211.51	45
STRIP LeftWall_917	4	4	24.8	0.4	0	214.95	45
STRIP LeftWall_917	4	4	25.2	0.4	0	218.39	45
STRIP LeftWall_917	4	4	25.6	0.4	0	221.83	45
STRIP LeftWall_917	4	4	26	0.4	0	225.27	45
STRIP LeftWall_917	4	4	26.4	0.4	0	228.71	45
STRIP LeftWall_917	4	4	26.8	0.4	0	232.15	45
STRIP LeftWall_917	4	4	27.2	0.4	0	235.59	45
STRIP LeftWall_917	4	4	27.6	0.4	0	239.02	45
STRIP LeftWall_917	4	4	28	0.4	0	242.46	45
STRIP LeftWall_917	4	4	28.4	0.4	0	245.9	45
STRIP LeftWall_917	4	4	28.8	0.4	0	249.34	45
STRIP LeftWall_917	4	4	29.2	0.4	0	252.78	45
STRIP LeftWall_917	4	4	29.6	0.4	0	256.22	45
STRIP LeftWall_917	5	5	0	0.4	0	1.7196	45
STRIP LeftWall_917	5	5	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	5	5	0.8	0.4	0	8.598	45
STRIP LeftWall_917	5	5	1.2	0.4	0	12.037	45
STRIP LeftWall_917	5	5	1.6	0.4	0	15.476	45
STRIP LeftWall_917	5	5	2	0.4	0	18.916	45
STRIP LeftWall_917	5	5	2.4	0.4	0	22.355	45
STRIP LeftWall_917	5	5	2.8	0.4	0	25.794	45
STRIP LeftWall_917	5	5	3.2	0.4	0	29.233	45
STRIP LeftWall_917	5	5	3.6	0.4	0	32.672	45
STRIP LeftWall_917	5	5	4	0.4	0	36.112	45
STRIP LeftWall_917	5	5	4.4	0.4	0	39.551	45
STRIP LeftWall_917	5	5	4.8	0.4	0	42.99	45
STRIP LeftWall_917	5	5	5.2	0.4	0	46.429	45
STRIP LeftWall_917	5	5	5.6	0.4	0	49.868	45
STRIP LeftWall_917	5	5	6	0.4	0	53.308	45
STRIP LeftWall_917	5	5	6.4	0.4	0	56.747	45
STRIP LeftWall_917	5	5	6.8	0.4	0	60.186	45
STRIP LeftWall_917	5	5	7.2	0.4	0	63.625	45
STRIP LeftWall_917	5	5	7.6	0.4	0	67.064	45
STRIP LeftWall_917	5	5	8	0.4	0	70.504	45
STRIP LeftWall_917	5	5	8.4	0.4	0	73.943	45
STRIP LeftWall_917	5	5	8.8	0.4	0	77.382	45
STRIP LeftWall_917	5	5	9.2	0.4	0	80.821	45
STRIP LeftWall_917	5	5	9.6	0.4	0	84.26	45
STRIP LeftWall_917	5	5	10	0.4	0	87.7	45
STRIP LeftWall_917	5	5	10.4	0.4	0	91.139	45
STRIP LeftWall_917	5	5	10.8	0.4	0	94.578	45
STRIP LeftWall_917	5	5	11.2	0.4	0	98.017	45
STRIP LeftWall_917	5	5	11.6	0.4	0	101.46	45
STRIP LeftWall_917	5	5	12	0.4	0	104.9	45
STRIP LeftWall_917	5	5	12.4	0.4	0	108.33	45
STRIP LeftWall_917	5	5	12.8	0.4	0	111.77	45
STRIP LeftWall_917	5	5	13.2	0.4	0	115.21	45
STRIP LeftWall_917	5	5	13.6	0.4	0	118.65	45
STRIP LeftWall_917	5	5	14	0.4	0	122.09	45
STRIP LeftWall_917	5	5	14.4	0.4	0	125.53	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:

Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	5	5	14.8	0.4	0	128.97	45
STRIP LeftWall_917	5	5	15.2	0.4	0	132.41	45
STRIP LeftWall_917	5	5	15.6	0.4	0	135.85	45
STRIP LeftWall_917	5	5	16.0	0.4	0	139.29	45
STRIP LeftWall_917	5	5	16.4	0.4	0	142.73	45
STRIP LeftWall_917	5	5	16.8	0.4	0	146.17	45
STRIP LeftWall_917	5	5	17.2	0.4	0	149.61	45
STRIP LeftWall_917	5	5	17.6	0.4	0	153.04	45
STRIP LeftWall_917	5	5	18.0	0.4	0	156.48	45
STRIP LeftWall_917	5	5	18.4	0.4	0	159.92	45
STRIP LeftWall_917	5	5	18.8	0.4	0	163.36	45
STRIP LeftWall_917	5	5	19.2	0.4	0	166.8	45
STRIP LeftWall_917	5	5	19.6	0.4	0	170.24	45
STRIP LeftWall_917	5	5	20.0	0.4	0	173.68	45
STRIP LeftWall_917	5	5	20.4	0.4	0	177.12	45
STRIP LeftWall_917	5	5	20.8	0.4	0	180.56	45
STRIP LeftWall_917	5	5	21.2	0.4	0	184	45
STRIP LeftWall_917	5	5	21.6	0.4	0	187.44	45
STRIP LeftWall_917	5	5	22.0	0.4	0	190.88	45
STRIP LeftWall_917	5	5	22.4	0.4	0	194.31	45
STRIP LeftWall_917	5	5	22.8	0.4	0	197.75	45
STRIP LeftWall_917	5	5	23.2	0.4	0	201.19	45
STRIP LeftWall_917	5	5	23.6	0.4	0	204.63	45
STRIP LeftWall_917	5	5	24.0	0.4	0	208.07	45
STRIP LeftWall_917	5	5	24.4	0.4	0	211.51	45
STRIP LeftWall_917	5	5	24.8	0.4	0	214.95	45
STRIP LeftWall_917	5	5	25.2	0.4	0	218.39	45
STRIP LeftWall_917	5	5	25.6	0.4	0	221.83	45
STRIP LeftWall_917	5	5	26.0	0.4	0	225.27	45
STRIP LeftWall_917	5	5	26.4	0.4	0	228.71	45
STRIP LeftWall_917	5	5	26.8	0.4	0	232.15	45
STRIP LeftWall_917	5	5	27.2	0.4	0	235.59	45
STRIP LeftWall_917	5	5	27.6	0.4	0	239.02	45
STRIP LeftWall_917	5	5	28.0	0.4	0	242.46	45
STRIP LeftWall_917	5	5	28.4	0.4	0	245.9	45
STRIP LeftWall_917	5	5	28.8	0.4	0	249.34	45
STRIP LeftWall_917	5	5	29.2	0.4	0	252.78	45
STRIP LeftWall_917	5	5	29.6	0.4	0	256.22	45
STRIP LeftWall_917	6	6	0.0	0.4	0	1.7196	45
STRIP LeftWall_917	6	6	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	6	6	0.8	0.4	0	8.598	45
STRIP LeftWall_917	6	6	1.2	0.4	0	12.037	45
STRIP LeftWall_917	6	6	1.6	0.4	0	15.476	45
STRIP LeftWall_917	6	6	2.0	0.4	0	18.916	45
STRIP LeftWall_917	6	6	2.4	0.4	0	22.355	45
STRIP LeftWall_917	6	6	2.8	0.4	0	25.794	45
STRIP LeftWall_917	6	6	3.2	0.4	0	29.233	45
STRIP LeftWall_917	6	6	3.6	0.4	0	32.672	45
STRIP LeftWall_917	6	6	4.0	0.4	0	36.112	45
STRIP LeftWall_917	6	6	4.4	0.4	0	39.551	45
STRIP LeftWall_917	6	6	4.8	0.4	0	42.99	45
STRIP LeftWall_917	6	6	5.2	0.4	0	46.429	45
STRIP LeftWall_917	6	6	5.6	0.4	0	49.868	45
STRIP LeftWall_917	6	6	6.0	0.4	0	53.308	45
STRIP LeftWall_917	6	6	6.4	0.4	0	56.747	45
STRIP LeftWall_917	6	6	6.8	0.4	0	60.186	45
STRIP LeftWall_917	6	6	7.2	0.4	0	63.625	45
STRIP LeftWall_917	6	6	7.6	0.4	0	67.064	45
STRIP LeftWall_917	6	6	8.0	0.4	0	70.504	45
STRIP LeftWall_917	6	6	8.4	0.4	0	73.943	45
STRIP LeftWall_917	6	6	8.8	0.4	0	77.382	45
STRIP LeftWall_917	6	6	9.2	0.4	0	80.821	45
STRIP LeftWall_917	6	6	9.6	0.4	0	84.26	45
STRIP LeftWall_917	6	6	10.0	0.4	0	87.7	45
STRIP LeftWall_917	6	6	10.4	0.4	0	91.139	45
STRIP LeftWall_917	6	6	10.8	0.4	0	94.578	45
STRIP LeftWall_917	6	6	11.2	0.4	0	98.017	45
STRIP LeftWall_917	6	6	11.6	0.4	0	101.46	45
STRIP LeftWall_917	6	6	12.0	0.4	0	104.9	45
STRIP LeftWall_917	6	6	12.4	0.4	0	108.33	45
STRIP LeftWall_917	6	6	12.8	0.4	0	111.77	45
STRIP LeftWall_917	6	6	13.2	0.4	0	115.21	45
STRIP LeftWall_917	6	6	13.6	0.4	0	118.65	45
STRIP LeftWall_917	6	6	14.0	0.4	0	122.09	45
STRIP LeftWall_917	6	6	14.4	0.4	0	125.53	45
STRIP LeftWall_917	6	6	14.8	0.4	0	128.97	45
STRIP LeftWall_917	6	6	15.2	0.4	0	132.41	45
STRIP LeftWall_917	6	6	15.6	0.4	0	135.85	45
STRIP LeftWall_917	6	6	16.0	0.4	0	139.29	45
STRIP LeftWall_917	6	6	16.4	0.4	0	142.73	45
STRIP LeftWall_917	6	6	16.8	0.4	0	146.17	45
STRIP LeftWall_917	6	6	17.2	0.4	0	149.61	45
STRIP LeftWall_917	6	6	17.6	0.4	0	153.04	45
STRIP LeftWall_917	6	6	18.0	0.4	0	156.48	45
STRIP LeftWall_917	6	6	18.4	0.4	0	159.92	45
STRIP LeftWall_917	6	6	18.8	0.4	0	163.36	45
STRIP LeftWall_917	6	6	19.2	0.4	0	166.8	45
STRIP LeftWall_917	6	6	19.6	0.4	0	170.24	45
STRIP LeftWall_917	6	6	20.0	0.4	0	173.68	45
STRIP LeftWall_917	6	6	20.4	0.4	0	177.12	45
STRIP LeftWall_917	6	6	20.8	0.4	0	180.56	45
STRIP LeftWall_917	6	6	21.2	0.4	0	184	45
STRIP LeftWall_917	6	6	21.6	0.4	0	187.44	45
STRIP LeftWall_917	6	6	22.0	0.4	0	190.88	45
STRIP LeftWall_917	6	6	22.4	0.4	0	194.31	45
STRIP LeftWall_917	6	6	22.8	0.4	0	197.75	45
STRIP LeftWall_917	6	6	23.2	0.4	0	201.19	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917	6	6	23.6	0.4	0	204.63	45
STRIP LeftWall_917	6	6	24	0.4	0	208.07	45
STRIP LeftWall_917	6	6	24.4	0.4	0	211.51	45
STRIP LeftWall_917	6	6	24.8	0.4	0	214.95	45
STRIP LeftWall_917	6	6	25.2	0.4	0	218.39	45
STRIP LeftWall_917	6	6	25.6	0.4	0	221.83	45
STRIP LeftWall_917	6	6	26	0.4	0	225.27	45
STRIP LeftWall_917	6	6	26.4	0.4	0	228.71	45
STRIP LeftWall_917	6	6	26.8	0.4	0	232.15	45
STRIP LeftWall_917	6	6	27.2	0.4	0	235.59	45
STRIP LeftWall_917	6	6	27.6	0.4	0	239.02	45
STRIP LeftWall_917	6	6	28	0.4	0	242.46	45
STRIP LeftWall_917	6	6	28.4	0.4	0	245.9	45
STRIP LeftWall_917	6	6	28.8	0.4	0	249.34	45
STRIP LeftWall_917	6	6	29.2	0.4	0	252.78	45
STRIP LeftWall_917	6	6	29.6	0.4	0	256.22	45
STRIP LeftWall_917	7	7	0	0.4	0	1.7196	45
STRIP LeftWall_917	7	7	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	7	7	0.8	0.4	0	8.598	45
STRIP LeftWall_917	7	7	1.2	0.4	0	12.037	45
STRIP LeftWall_917	7	7	1.6	0.4	0	15.476	45
STRIP LeftWall_917	7	7	2	0.4	0	18.916	45
STRIP LeftWall_917	7	7	2.4	0.4	0	22.355	45
STRIP LeftWall_917	7	7	2.8	0.4	0	25.794	45
STRIP LeftWall_917	7	7	3.2	0.4	0	29.233	45
STRIP LeftWall_917	7	7	3.6	0.4	0	32.672	45
STRIP LeftWall_917	7	7	4	0.4	0	36.112	45
STRIP LeftWall_917	7	7	4.4	0.4	0	39.551	45
STRIP LeftWall_917	7	7	4.8	0.4	0	42.99	45
STRIP LeftWall_917	7	7	5.2	0.4	0	46.429	45
STRIP LeftWall_917	7	7	5.6	0.4	0	49.868	45
STRIP LeftWall_917	7	7	6	0.4	0	53.308	45
STRIP LeftWall_917	7	7	6.4	0.4	0	56.747	45
STRIP LeftWall_917	7	7	6.8	0.4	0	60.186	45
STRIP LeftWall_917	7	7	7.2	0.4	0	63.625	45
STRIP LeftWall_917	7	7	7.6	0.4	0	67.064	45
STRIP LeftWall_917	7	7	8	0.4	0	70.504	45
STRIP LeftWall_917	7	7	8.4	0.4	0	73.943	45
STRIP LeftWall_917	7	7	8.8	0.4	0	77.382	45
STRIP LeftWall_917	7	7	9.2	0.4	0	80.821	45
STRIP LeftWall_917	7	7	9.6	0.4	0	84.26	45
STRIP LeftWall_917	7	7	10	0.4	0	87.7	45
STRIP LeftWall_917	7	7	10.4	0.4	0	91.139	45
STRIP LeftWall_917	7	7	10.8	0.4	0	94.578	45
STRIP LeftWall_917	7	7	11.2	0.4	0	98.017	45
STRIP LeftWall_917	7	7	11.6	0.4	0	101.46	45
STRIP LeftWall_917	7	7	12	0.4	0	104.9	45
STRIP LeftWall_917	7	7	12.4	0.4	0	108.33	45
STRIP LeftWall_917	7	7	12.8	0.4	0	111.77	45
STRIP LeftWall_917	7	7	13.2	0.4	0	115.21	45
STRIP LeftWall_917	7	7	13.6	0.4	0	118.65	45
STRIP LeftWall_917	7	7	14	0.4	0	122.09	45
STRIP LeftWall_917	7	7	14.4	0.4	0	125.53	45
STRIP LeftWall_917	7	7	14.8	0.4	0	128.97	45
STRIP LeftWall_917	7	7	15.2	0.4	0	132.41	45
STRIP LeftWall_917	7	7	15.6	0.4	0	135.85	45
STRIP LeftWall_917	7	7	16	0.4	0	139.29	45
STRIP LeftWall_917	7	7	16.4	0.4	0	142.73	45
STRIP LeftWall_917	7	7	16.8	0.4	0	146.17	45
STRIP LeftWall_917	7	7	17.2	0.4	0	149.61	45
STRIP LeftWall_917	7	7	17.6	0.4	0	153.04	45
STRIP LeftWall_917	7	7	18	0.4	0	156.48	45
STRIP LeftWall_917	7	7	18.4	0.4	0	159.92	45
STRIP LeftWall_917	7	7	18.8	0.4	0	163.36	45
STRIP LeftWall_917	7	7	19.2	0.4	0	166.8	45
STRIP LeftWall_917	7	7	19.6	0.4	0	170.24	45
STRIP LeftWall_917	7	7	20	0.4	0	173.68	45
STRIP LeftWall_917	7	7	20.4	0.4	0	177.12	45
STRIP LeftWall_917	7	7	20.8	0.4	0	180.56	45
STRIP LeftWall_917	7	7	21.2	0.4	0	184	45
STRIP LeftWall_917	7	7	21.6	0.4	0	187.44	45
STRIP LeftWall_917	7	7	22	0.4	0	190.88	45
STRIP LeftWall_917	7	7	22.4	0.4	0	194.31	45
STRIP LeftWall_917	7	7	22.8	0.4	0	197.75	45
STRIP LeftWall_917	7	7	23.2	0.4	0	201.19	45
STRIP LeftWall_917	7	7	23.6	0.4	0	204.63	45
STRIP LeftWall_917	7	7	24	0.4	0	208.07	45
STRIP LeftWall_917	7	7	24.4	0.4	0	211.51	45
STRIP LeftWall_917	7	7	24.8	0.4	0	214.95	45
STRIP LeftWall_917	7	7	25.2	0.4	0	218.39	45
STRIP LeftWall_917	7	7	25.6	0.4	0	221.83	45
STRIP LeftWall_917	7	7	26	0.4	0	225.27	45
STRIP LeftWall_917	7	7	26.4	0.4	0	228.71	45
STRIP LeftWall_917	7	7	26.8	0.4	0	232.15	45
STRIP LeftWall_917	7	7	27.2	0.4	0	235.59	45
STRIP LeftWall_917	7	7	27.6	0.4	0	239.02	45
STRIP LeftWall_917	7	7	28	0.4	0	242.46	45
STRIP LeftWall_917	7	7	28.4	0.4	0	245.9	45
STRIP LeftWall_917	7	7	28.8	0.4	0	249.34	45
STRIP LeftWall_917	7	7	29.2	0.4	0	252.78	45
STRIP LeftWall_917	7	7	29.6	0.4	0	256.22	45
STRIP LeftWall_917	8	8	0	0.4	0	1.7196	45
STRIP LeftWall_917	8	8	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	8	8	0.8	0.4	0	8.598	45
STRIP LeftWall_917	8	8	1.2	0.4	0	12.037	45
STRIP LeftWall_917	8	8	1.6	0.4	0	15.476	45
STRIP LeftWall_917	8	8	2	0.4	0	18.916	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP	LeftWall_917	8	8	2.4	0.4	0	22.355	45
STRIP	LeftWall_917	8	8	2.8	0.4	0	25.794	45
STRIP	LeftWall_917	8	8	3.2	0.4	0	29.233	45
STRIP	LeftWall_917	8	8	3.6	0.4	0	32.672	45
STRIP	LeftWall_917	8	8	4.0	0.4	0	36.112	45
STRIP	LeftWall_917	8	8	4.4	0.4	0	39.551	45
STRIP	LeftWall_917	8	8	4.8	0.4	0	42.99	45
STRIP	LeftWall_917	8	8	5.2	0.4	0	46.429	45
STRIP	LeftWall_917	8	8	5.6	0.4	0	49.868	45
STRIP	LeftWall_917	8	8	6.0	0.4	0	53.308	45
STRIP	LeftWall_917	8	8	6.4	0.4	0	56.747	45
STRIP	LeftWall_917	8	8	6.8	0.4	0	60.186	45
STRIP	LeftWall_917	8	8	7.2	0.4	0	63.625	45
STRIP	LeftWall_917	8	8	7.6	0.4	0	67.064	45
STRIP	LeftWall_917	8	8	8.0	0.4	0	70.504	45
STRIP	LeftWall_917	8	8	8.4	0.4	0	73.943	45
STRIP	LeftWall_917	8	8	8.8	0.4	0	77.382	45
STRIP	LeftWall_917	8	8	9.2	0.4	0	80.821	45
STRIP	LeftWall_917	8	8	9.6	0.4	0	84.26	45
STRIP	LeftWall_917	8	8	10.0	0.4	0	87.7	45
STRIP	LeftWall_917	8	8	10.4	0.4	0	91.139	45
STRIP	LeftWall_917	8	8	10.8	0.4	0	94.578	45
STRIP	LeftWall_917	8	8	11.2	0.4	0	98.017	45
STRIP	LeftWall_917	8	8	11.6	0.4	0	101.46	45
STRIP	LeftWall_917	8	8	12.0	0.4	0	104.9	45
STRIP	LeftWall_917	8	8	12.4	0.4	0	108.33	45
STRIP	LeftWall_917	8	8	12.8	0.4	0	111.77	45
STRIP	LeftWall_917	8	8	13.2	0.4	0	115.21	45
STRIP	LeftWall_917	8	8	13.6	0.4	0	118.65	45
STRIP	LeftWall_917	8	8	14.0	0.4	0	122.09	45
STRIP	LeftWall_917	8	8	14.4	0.4	0	125.53	45
STRIP	LeftWall_917	8	8	14.8	0.4	0	128.97	45
STRIP	LeftWall_917	8	8	15.2	0.4	0	132.41	45
STRIP	LeftWall_917	8	8	15.6	0.4	0	135.85	45
STRIP	LeftWall_917	8	8	16.0	0.4	0	139.29	45
STRIP	LeftWall_917	8	8	16.4	0.4	0	142.73	45
STRIP	LeftWall_917	8	8	16.8	0.4	0	146.17	45
STRIP	LeftWall_917	8	8	17.2	0.4	0	149.61	45
STRIP	LeftWall_917	8	8	17.6	0.4	0	153.04	45
STRIP	LeftWall_917	8	8	18.0	0.4	0	156.48	45
STRIP	LeftWall_917	8	8	18.4	0.4	0	159.92	45
STRIP	LeftWall_917	8	8	18.8	0.4	0	163.36	45
STRIP	LeftWall_917	8	8	19.2	0.4	0	166.8	45
STRIP	LeftWall_917	8	8	19.6	0.4	0	170.24	45
STRIP	LeftWall_917	8	8	20.0	0.4	0	173.68	45
STRIP	LeftWall_917	8	8	20.4	0.4	0	177.12	45
STRIP	LeftWall_917	8	8	20.8	0.4	0	180.56	45
STRIP	LeftWall_917	8	8	21.2	0.4	0	184	45
STRIP	LeftWall_917	8	8	21.6	0.4	0	187.44	45
STRIP	LeftWall_917	8	8	22.0	0.4	0	190.88	45
STRIP	LeftWall_917	8	8	22.4	0.4	0	194.31	45
STRIP	LeftWall_917	8	8	22.8	0.4	0	197.75	45
STRIP	LeftWall_917	8	8	23.2	0.4	0	201.19	45
STRIP	LeftWall_917	8	8	23.6	0.4	0	204.63	45
STRIP	LeftWall_917	8	8	24.0	0.4	0	208.07	45
STRIP	LeftWall_917	8	8	24.4	0.4	0	211.51	45
STRIP	LeftWall_917	8	8	24.8	0.4	0	214.95	45
STRIP	LeftWall_917	8	8	25.2	0.4	0	218.39	45
STRIP	LeftWall_917	8	8	25.6	0.4	0	221.83	45
STRIP	LeftWall_917	8	8	26.0	0.4	0	225.27	45
STRIP	LeftWall_917	8	8	26.4	0.4	0	228.71	45
STRIP	LeftWall_917	8	8	26.8	0.4	0	232.15	45
STRIP	LeftWall_917	8	8	27.2	0.4	0	235.59	45
STRIP	LeftWall_917	8	8	27.6	0.4	0	239.02	45
STRIP	LeftWall_917	8	8	28.0	0.4	0	242.46	45
STRIP	LeftWall_917	8	8	28.4	0.4	0	245.9	45
STRIP	LeftWall_917	8	8	28.8	0.4	0	249.34	45
STRIP	LeftWall_917	8	8	29.2	0.4	0	252.78	45
STRIP	LeftWall_917	8	8	29.6	0.4	0	256.22	45
STRIP	LeftWall_917	9	9	0.0	0.4	0	1.7196	45
STRIP	LeftWall_917	9	9	0.4	0.4	0	5.1588	45
STRIP	LeftWall_917	9	9	0.8	0.4	0	8.598	45
STRIP	LeftWall_917	9	9	1.2	0.4	0	12.037	45
STRIP	LeftWall_917	9	9	1.6	0.4	0	15.476	45
STRIP	LeftWall_917	9	9	2.0	0.4	0	18.916	45
STRIP	LeftWall_917	9	9	2.4	0.4	0	22.355	45
STRIP	LeftWall_917	9	9	2.8	0.4	0	25.794	45
STRIP	LeftWall_917	9	9	3.2	0.4	0	29.233	45
STRIP	LeftWall_917	9	9	3.6	0.4	0	32.672	45
STRIP	LeftWall_917	9	9	4.0	0.4	0	36.112	45
STRIP	LeftWall_917	9	9	4.4	0.4	0	39.551	45
STRIP	LeftWall_917	9	9	4.8	0.4	0	42.99	45
STRIP	LeftWall_917	9	9	5.2	0.4	0	46.429	45
STRIP	LeftWall_917	9	9	5.6	0.4	0	49.868	45
STRIP	LeftWall_917	9	9	6.0	0.4	0	53.308	45
STRIP	LeftWall_917	9	9	6.4	0.4	0	56.747	45
STRIP	LeftWall_917	9	9	6.8	0.4	0	60.186	45
STRIP	LeftWall_917	9	9	7.2	0.4	0	63.625	45
STRIP	LeftWall_917	9	9	7.6	0.4	0	67.064	45
STRIP	LeftWall_917	9	9	8.0	0.4	0	70.504	45
STRIP	LeftWall_917	9	9	8.4	0.4	0	73.943	45
STRIP	LeftWall_917	9	9	8.8	0.4	0	77.382	45
STRIP	LeftWall_917	9	9	9.2	0.4	0	80.821	45
STRIP	LeftWall_917	9	9	9.6	0.4	0	84.26	45
STRIP	LeftWall_917	9	9	10.0	0.4	0	87.7	45
STRIP	LeftWall_917	9	9	10.4	0.4	0	91.139	45
STRIP	LeftWall_917	9	9	10.8	0.4	0	94.578	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP	LeftWall_917	9	9	11.2	0.4	0	98.017	45
STRIP	LeftWall_917	9	9	11.6	0.4	0	101.46	45
STRIP	LeftWall_917	9	9	12	0.4	0	104.9	45
STRIP	LeftWall_917	9	9	12.4	0.4	0	108.33	45
STRIP	LeftWall_917	9	9	12.8	0.4	0	111.77	45
STRIP	LeftWall_917	9	9	13.2	0.4	0	115.21	45
STRIP	LeftWall_917	9	9	13.6	0.4	0	118.65	45
STRIP	LeftWall_917	9	9	14	0.4	0	122.09	45
STRIP	LeftWall_917	9	9	14.4	0.4	0	125.53	45
STRIP	LeftWall_917	9	9	14.8	0.4	0	128.97	45
STRIP	LeftWall_917	9	9	15.2	0.4	0	132.41	45
STRIP	LeftWall_917	9	9	15.6	0.4	0	135.85	45
STRIP	LeftWall_917	9	9	16	0.4	0	139.29	45
STRIP	LeftWall_917	9	9	16.4	0.4	0	142.73	45
STRIP	LeftWall_917	9	9	16.8	0.4	0	146.17	45
STRIP	LeftWall_917	9	9	17.2	0.4	0	149.61	45
STRIP	LeftWall_917	9	9	17.6	0.4	0	153.04	45
STRIP	LeftWall_917	9	9	18	0.4	0	156.48	45
STRIP	LeftWall_917	9	9	18.4	0.4	0	159.92	45
STRIP	LeftWall_917	9	9	18.8	0.4	0	163.36	45
STRIP	LeftWall_917	9	9	19.2	0.4	0	166.8	45
STRIP	LeftWall_917	9	9	19.6	0.4	0	170.24	45
STRIP	LeftWall_917	9	9	20	0.4	0	173.68	45
STRIP	LeftWall_917	9	9	20.4	0.4	0	177.12	45
STRIP	LeftWall_917	9	9	20.8	0.4	0	180.56	45
STRIP	LeftWall_917	9	9	21.2	0.4	0	184	45
STRIP	LeftWall_917	9	9	21.6	0.4	0	187.44	45
STRIP	LeftWall_917	9	9	22	0.4	0	190.88	45
STRIP	LeftWall_917	9	9	22.4	0.4	0	194.31	45
STRIP	LeftWall_917	9	9	22.8	0.4	0	197.75	45
STRIP	LeftWall_917	9	9	23.2	0.4	0	201.19	45
STRIP	LeftWall_917	9	9	23.6	0.4	0	204.63	45
STRIP	LeftWall_917	9	9	24	0.4	0	208.07	45
STRIP	LeftWall_917	9	9	24.4	0.4	0	211.51	45
STRIP	LeftWall_917	9	9	24.8	0.4	0	214.95	45
STRIP	LeftWall_917	9	9	25.2	0.4	0	218.39	45
STRIP	LeftWall_917	9	9	25.6	0.4	0	221.83	45
STRIP	LeftWall_917	9	9	26	0.4	0	225.27	45
STRIP	LeftWall_917	9	9	26.4	0.4	0	228.71	45
STRIP	LeftWall_917	9	9	26.8	0.4	0	232.15	45
STRIP	LeftWall_917	9	9	27.2	0.4	0	235.59	45
STRIP	LeftWall_917	9	9	27.6	0.4	0	239.02	45
STRIP	LeftWall_917	9	9	28	0.4	0	242.46	45
STRIP	LeftWall_917	9	9	28.4	0.4	0	245.9	45
STRIP	LeftWall_917	9	9	28.8	0.4	0	249.34	45
STRIP	LeftWall_917	9	9	29.2	0.4	0	252.78	45
STRIP	LeftWall_917	9	9	29.6	0.4	0	256.22	45
STRIP	LeftWall_917	10	10	0	0.4	0	1.7196	45
STRIP	LeftWall_917	10	10	0.4	0.4	0	5.1588	45
STRIP	LeftWall_917	10	10	0.8	0.4	0	8.598	45
STRIP	LeftWall_917	10	10	1.2	0.4	0	12.037	45
STRIP	LeftWall_917	10	10	1.6	0.4	0	15.476	45
STRIP	LeftWall_917	10	10	2	0.4	0	18.916	45
STRIP	LeftWall_917	10	10	2.4	0.4	0	22.355	45
STRIP	LeftWall_917	10	10	2.8	0.4	0	25.794	45
STRIP	LeftWall_917	10	10	3.2	0.4	0	29.233	45
STRIP	LeftWall_917	10	10	3.6	0.4	0	32.672	45
STRIP	LeftWall_917	10	10	4	0.4	0	36.112	45
STRIP	LeftWall_917	10	10	4.4	0.4	0	39.551	45
STRIP	LeftWall_917	10	10	4.8	0.4	0	42.99	45
STRIP	LeftWall_917	10	10	5.2	0.4	0	46.429	45
STRIP	LeftWall_917	10	10	5.6	0.4	0	49.868	45
STRIP	LeftWall_917	10	10	6	0.4	0	53.308	45
STRIP	LeftWall_917	10	10	6.4	0.4	0	56.747	45
STRIP	LeftWall_917	10	10	6.8	0.4	0	60.186	45
STRIP	LeftWall_917	10	10	7.2	0.4	0	63.625	45
STRIP	LeftWall_917	10	10	7.6	0.4	0	67.064	45
STRIP	LeftWall_917	10	10	8	0.4	0	70.504	45
STRIP	LeftWall_917	10	10	8.4	0.4	0	73.943	45
STRIP	LeftWall_917	10	10	8.8	0.4	0	77.382	45
STRIP	LeftWall_917	10	10	9.2	0.4	0	80.821	45
STRIP	LeftWall_917	10	10	9.6	0.4	0	84.26	45
STRIP	LeftWall_917	10	10	10	0.4	0	87.7	45
STRIP	LeftWall_917	10	10	10.4	0.4	0	91.139	45
STRIP	LeftWall_917	10	10	10.8	0.4	0	94.578	45
STRIP	LeftWall_917	10	10	11.2	0.4	0	98.017	45
STRIP	LeftWall_917	10	10	11.6	0.4	0	101.46	45
STRIP	LeftWall_917	10	10	12	0.4	0	104.9	45
STRIP	LeftWall_917	10	10	12.4	0.4	0	108.33	45
STRIP	LeftWall_917	10	10	12.8	0.4	0	111.77	45
STRIP	LeftWall_917	10	10	13.2	0.4	0	115.21	45
STRIP	LeftWall_917	10	10	13.6	0.4	0	118.65	45
STRIP	LeftWall_917	10	10	14	0.4	0	122.09	45
STRIP	LeftWall_917	10	10	14.4	0.4	0	125.53	45
STRIP	LeftWall_917	10	10	14.8	0.4	0	128.97	45
STRIP	LeftWall_917	10	10	15.2	0.4	0	132.41	45
STRIP	LeftWall_917	10	10	15.6	0.4	0	135.85	45
STRIP	LeftWall_917	10	10	16	0.4	0	139.29	45
STRIP	LeftWall_917	10	10	16.4	0.4	0	142.73	45
STRIP	LeftWall_917	10	10	16.8	0.4	0	146.17	45
STRIP	LeftWall_917	10	10	17.2	0.4	0	149.61	45
STRIP	LeftWall_917	10	10	17.6	0.4	0	153.04	45
STRIP	LeftWall_917	10	10	18	0.4	0	156.48	45
STRIP	LeftWall_917	10	10	18.4	0.4	0	159.92	45
STRIP	LeftWall_917	10	10	18.8	0.4	0	163.36	45
STRIP	LeftWall_917	10	10	19.2	0.4	0	166.8	45
STRIP	LeftWall_917	10	10	19.6	0.4	0	170.24	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:

Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917 10 10 20 0.4 0 173.68 45
STRIP LeftWall_917 10 10 20.4 0.4 0 177.12 45
STRIP LeftWall_917 10 10 20.8 0.4 0 180.56 45
STRIP LeftWall_917 10 10 21.2 0.4 0 184 45
STRIP LeftWall_917 10 10 21.6 0.4 0 187.44 45
STRIP LeftWall_917 10 10 22 0.4 0 190.88 45
STRIP LeftWall_917 10 10 22.4 0.4 0 194.31 45
STRIP LeftWall_917 10 10 22.8 0.4 0 197.75 45
STRIP LeftWall_917 10 10 23.2 0.4 0 201.19 45
STRIP LeftWall_917 10 10 23.6 0.4 0 204.63 45
STRIP LeftWall_917 10 10 24 0.4 0 208.07 45
STRIP LeftWall_917 10 10 24.4 0.4 0 211.51 45
STRIP LeftWall_917 10 10 24.8 0.4 0 214.95 45
STRIP LeftWall_917 10 10 25.2 0.4 0 218.39 45
STRIP LeftWall_917 10 10 25.6 0.4 0 221.83 45
STRIP LeftWall_917 10 10 26 0.4 0 225.27 45
STRIP LeftWall_917 10 10 26.4 0.4 0 228.71 45
STRIP LeftWall_917 10 10 26.8 0.4 0 232.15 45
STRIP LeftWall_917 10 10 27.2 0.4 0 235.59 45
STRIP LeftWall_917 10 10 27.6 0.4 0 239.02 45
STRIP LeftWall_917 10 10 28 0.4 0 242.46 45
STRIP LeftWall_917 10 10 28.4 0.4 0 245.9 45
STRIP LeftWall_917 10 10 28.8 0.4 0 249.34 45
STRIP LeftWall_917 10 10 29.2 0.4 0 252.78 45
STRIP LeftWall_917 10 10 29.6 0.4 0 256.22 45
STRIP LeftWall_917 11 11 0 0.4 0 1.7196 45
STRIP LeftWall_917 11 11 0.4 0.4 0 5.1588 45
STRIP LeftWall_917 11 11 0.8 0.4 0 8.598 45
STRIP LeftWall_917 11 11 1.2 0.4 0 12.037 45
STRIP LeftWall_917 11 11 1.6 0.4 0 15.476 45
STRIP LeftWall_917 11 11 2 0.4 0 18.916 45
STRIP LeftWall_917 11 11 2.4 0.4 0 22.355 45
STRIP LeftWall_917 11 11 2.8 0.4 0 25.794 45
STRIP LeftWall_917 11 11 3.2 0.4 0 29.233 45
STRIP LeftWall_917 11 11 3.6 0.4 0 32.672 45
STRIP LeftWall_917 11 11 4 0.4 0 36.112 45
STRIP LeftWall_917 11 11 4.4 0.4 0 39.551 45
STRIP LeftWall_917 11 11 4.8 0.4 0 42.99 45
STRIP LeftWall_917 11 11 5.2 0.4 0 46.429 45
STRIP LeftWall_917 11 11 5.6 0.4 0 49.868 45
STRIP LeftWall_917 11 11 6 0.4 0 53.308 45
STRIP LeftWall_917 11 11 6.4 0.4 0 56.747 45
STRIP LeftWall_917 11 11 6.8 0.4 0 60.186 45
STRIP LeftWall_917 11 11 7.2 0.4 0 63.625 45
STRIP LeftWall_917 11 11 7.6 0.4 0 67.064 45
STRIP LeftWall_917 11 11 8 0.4 0 70.504 45
STRIP LeftWall_917 11 11 8.4 0.4 0 73.943 45
STRIP LeftWall_917 11 11 8.8 0.4 0 77.382 45
STRIP LeftWall_917 11 11 9.2 0.4 0 80.821 45
STRIP LeftWall_917 11 11 9.6 0.4 0 84.26 45
STRIP LeftWall_917 11 11 10 0.4 0 87.7 45
STRIP LeftWall_917 11 11 10.4 0.4 0 91.139 45
STRIP LeftWall_917 11 11 10.8 0.4 0 94.578 45
STRIP LeftWall_917 11 11 11.2 0.4 0 98.017 45
STRIP LeftWall_917 11 11 11.6 0.4 0 101.46 45
STRIP LeftWall_917 11 11 12 0.4 0 104.9 45
STRIP LeftWall_917 11 11 12.4 0.4 0 108.33 45
STRIP LeftWall_917 11 11 12.8 0.4 0 111.77 45
STRIP LeftWall_917 11 11 13.2 0.4 0 115.21 45
STRIP LeftWall_917 11 11 13.6 0.4 0 118.65 45
STRIP LeftWall_917 11 11 14 0.4 0 122.09 45
STRIP LeftWall_917 11 11 14.4 0.4 0 125.53 45
STRIP LeftWall_917 11 11 14.8 0.4 0 128.97 45
STRIP LeftWall_917 11 11 15.2 0.4 0 132.41 45
STRIP LeftWall_917 11 11 15.6 0.4 0 135.85 45
STRIP LeftWall_917 11 11 16 0.4 0 139.29 45
STRIP LeftWall_917 11 11 16.4 0.4 0 142.73 45
STRIP LeftWall_917 11 11 16.8 0.4 0 146.17 45
STRIP LeftWall_917 11 11 17.2 0.4 0 149.61 45
STRIP LeftWall_917 11 11 17.6 0.4 0 153.04 45
STRIP LeftWall_917 11 11 18 0.4 0 156.48 45
STRIP LeftWall_917 11 11 18.4 0.4 0 159.92 45
STRIP LeftWall_917 11 11 18.8 0.4 0 163.36 45
STRIP LeftWall_917 11 11 19.2 0.4 0 166.8 45
STRIP LeftWall_917 11 11 19.6 0.4 0 170.24 45
STRIP LeftWall_917 11 11 20 0.4 0 173.68 45
STRIP LeftWall_917 11 11 20.4 0.4 0 177.12 45
STRIP LeftWall_917 11 11 20.8 0.4 0 180.56 45
STRIP LeftWall_917 11 11 21.2 0.4 0 184 45
STRIP LeftWall_917 11 11 21.6 0.4 0 187.44 45
STRIP LeftWall_917 11 11 22 0.4 0 190.88 45
STRIP LeftWall_917 11 11 22.4 0.4 0 194.31 45
STRIP LeftWall_917 11 11 22.8 0.4 0 197.75 45
STRIP LeftWall_917 11 11 23.2 0.4 0 201.19 45
STRIP LeftWall_917 11 11 23.6 0.4 0 204.63 45
STRIP LeftWall_917 11 11 24 0.4 0 208.07 45
STRIP LeftWall_917 11 11 24.4 0.4 0 211.51 45
STRIP LeftWall_917 11 11 24.8 0.4 0 214.95 45
STRIP LeftWall_917 11 11 25.2 0.4 0 218.39 45
STRIP LeftWall_917 11 11 25.6 0.4 0 221.83 45
STRIP LeftWall_917 11 11 26 0.4 0 225.27 45
STRIP LeftWall_917 11 11 26.4 0.4 0 228.71 45
STRIP LeftWall_917 11 11 26.8 0.4 0 232.15 45
STRIP LeftWall_917 11 11 27.2 0.4 0 235.59 45
STRIP LeftWall_917 11 11 27.6 0.4 0 239.02 45
STRIP LeftWall_917 11 11 28 0.4 0 242.46 45
STRIP LeftWall_917 11 11 28.4 0.4 0 245.9 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	11	11	28.8	0.4	0	249.34	45
STRIP LeftWall_917	11	11	29.2	0.4	0	252.78	45
STRIP LeftWall_917	11	11	29.6	0.4	0	256.22	45
STRIP LeftWall_917	12	12	0	0.4	0	1.7196	45
STRIP LeftWall_917	12	12	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	12	12	0.8	0.4	0	8.598	45
STRIP LeftWall_917	12	12	1.2	0.4	0	12.037	45
STRIP LeftWall_917	12	12	1.6	0.4	0	15.476	45
STRIP LeftWall_917	12	12	2	0.4	0	18.916	45
STRIP LeftWall_917	12	12	2.4	0.4	0	22.355	45
STRIP LeftWall_917	12	12	2.8	0.4	0	25.794	45
STRIP LeftWall_917	12	12	3.2	0.4	0	29.233	45
STRIP LeftWall_917	12	12	3.6	0.4	0	32.672	45
STRIP LeftWall_917	12	12	4	0.4	0	36.112	45
STRIP LeftWall_917	12	12	4.4	0.4	0	39.551	45
STRIP LeftWall_917	12	12	4.8	0.4	0	42.99	45
STRIP LeftWall_917	12	12	5.2	0.4	0	46.429	45
STRIP LeftWall_917	12	12	5.6	0.4	0	49.868	45
STRIP LeftWall_917	12	12	6	0.4	0	53.308	45
STRIP LeftWall_917	12	12	6.4	0.4	0	56.747	45
STRIP LeftWall_917	12	12	6.8	0.4	0	60.186	45
STRIP LeftWall_917	12	12	7.2	0.4	0	63.625	45
STRIP LeftWall_917	12	12	7.6	0.4	0	67.064	45
STRIP LeftWall_917	12	12	8	0.4	0	70.504	45
STRIP LeftWall_917	12	12	8.4	0.4	0	73.943	45
STRIP LeftWall_917	12	12	8.8	0.4	0	77.382	45
STRIP LeftWall_917	12	12	9.2	0.4	0	80.821	45
STRIP LeftWall_917	12	12	9.6	0.4	0	84.26	45
STRIP LeftWall_917	12	12	10	0.4	0	87.7	45
STRIP LeftWall_917	12	12	10.4	0.4	0	91.139	45
STRIP LeftWall_917	12	12	10.8	0.4	0	94.578	45
STRIP LeftWall_917	12	12	11.2	0.4	0	98.017	45
STRIP LeftWall_917	12	12	11.6	0.4	0	101.46	45
STRIP LeftWall_917	12	12	12	0.4	0	104.9	45
STRIP LeftWall_917	12	12	12.4	0.4	0	108.33	45
STRIP LeftWall_917	12	12	12.8	0.4	0	111.77	45
STRIP LeftWall_917	12	12	13.2	0.4	0	115.21	45
STRIP LeftWall_917	12	12	13.6	0.4	0	118.65	45
STRIP LeftWall_917	12	12	14	0.4	0	122.09	45
STRIP LeftWall_917	12	12	14.4	0.4	0	125.53	45
STRIP LeftWall_917	12	12	14.8	0.4	0	128.97	45
STRIP LeftWall_917	12	12	15.2	0.4	0	132.41	45
STRIP LeftWall_917	12	12	15.6	0.4	0	135.85	45
STRIP LeftWall_917	12	12	16	0.4	0	139.29	45
STRIP LeftWall_917	12	12	16.4	0.4	0	142.73	45
STRIP LeftWall_917	12	12	16.8	0.4	0	146.17	45
STRIP LeftWall_917	12	12	17.2	0.4	0	149.61	45
STRIP LeftWall_917	12	12	17.6	0.4	0	153.04	45
STRIP LeftWall_917	12	12	18	0.4	0	156.48	45
STRIP LeftWall_917	12	12	18.4	0.4	0	159.92	45
STRIP LeftWall_917	12	12	18.8	0.4	0	163.36	45
STRIP LeftWall_917	12	12	19.2	0.4	0	166.8	45
STRIP LeftWall_917	12	12	19.6	0.4	0	170.24	45
STRIP LeftWall_917	12	12	20	0.4	0	173.68	45
STRIP LeftWall_917	12	12	20.4	0.4	0	177.12	45
STRIP LeftWall_917	12	12	20.8	0.4	0	180.56	45
STRIP LeftWall_917	12	12	21.2	0.4	0	184	45
STRIP LeftWall_917	12	12	21.6	0.4	0	187.44	45
STRIP LeftWall_917	12	12	22	0.4	0	190.88	45
STRIP LeftWall_917	12	12	22.4	0.4	0	194.31	45
STRIP LeftWall_917	12	12	22.8	0.4	0	197.75	45
STRIP LeftWall_917	12	12	23.2	0.4	0	201.19	45
STRIP LeftWall_917	12	12	23.6	0.4	0	204.63	45
STRIP LeftWall_917	12	12	24	0.4	0	208.07	45
STRIP LeftWall_917	12	12	24.4	0.4	0	211.51	45
STRIP LeftWall_917	12	12	24.8	0.4	0	214.95	45
STRIP LeftWall_917	12	12	25.2	0.4	0	218.39	45
STRIP LeftWall_917	12	12	25.6	0.4	0	221.83	45
STRIP LeftWall_917	12	12	26	0.4	0	225.27	45
STRIP LeftWall_917	12	12	26.4	0.4	0	228.71	45
STRIP LeftWall_917	12	12	26.8	0.4	0	232.15	45
STRIP LeftWall_917	12	12	27.2	0.4	0	235.59	45
STRIP LeftWall_917	12	12	27.6	0.4	0	239.02	45
STRIP LeftWall_917	12	12	28	0.4	0	242.46	45
STRIP LeftWall_917	12	12	28.4	0.4	0	245.9	45
STRIP LeftWall_917	12	12	28.8	0.4	0	249.34	45
STRIP LeftWall_917	12	12	29.2	0.4	0	252.78	45
STRIP LeftWall_917	12	12	29.6	0.4	0	256.22	45
STRIP LeftWall_917	13	13	0	0.4	0	1.7196	45
STRIP LeftWall_917	13	13	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	13	13	0.8	0.4	0	8.598	45
STRIP LeftWall_917	13	13	1.2	0.4	0	12.037	45
STRIP LeftWall_917	13	13	1.6	0.4	0	15.476	45
STRIP LeftWall_917	13	13	2	0.4	0	18.916	45
STRIP LeftWall_917	13	13	2.4	0.4	0	22.355	45
STRIP LeftWall_917	13	13	2.8	0.4	0	25.794	45
STRIP LeftWall_917	13	13	3.2	0.4	0	29.233	45
STRIP LeftWall_917	13	13	3.6	0.4	0	32.672	45
STRIP LeftWall_917	13	13	4	0.4	0	36.112	45
STRIP LeftWall_917	13	13	4.4	0.4	0	39.551	45
STRIP LeftWall_917	13	13	4.8	0.4	0	42.99	45
STRIP LeftWall_917	13	13	5.2	0.4	0	46.429	45
STRIP LeftWall_917	13	13	5.6	0.4	0	49.868	45
STRIP LeftWall_917	13	13	6	0.4	0	53.308	45
STRIP LeftWall_917	13	13	6.4	0.4	0	56.747	45
STRIP LeftWall_917	13	13	6.8	0.4	0	60.186	45
STRIP LeftWall_917	13	13	7.2	0.4	0	63.625	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	13	13	7.6	0.4	0	67.064	45
STRIP LeftWall_917	13	13	8	0.4	0	70.504	45
STRIP LeftWall_917	13	13	8.4	0.4	0	73.943	45
STRIP LeftWall_917	13	13	8.8	0.4	0	77.382	45
STRIP LeftWall_917	13	13	9.2	0.4	0	80.821	45
STRIP LeftWall_917	13	13	9.6	0.4	0	84.26	45
STRIP LeftWall_917	13	13	10	0.4	0	87.7	45
STRIP LeftWall_917	13	13	10.4	0.4	0	91.139	45
STRIP LeftWall_917	13	13	10.8	0.4	0	94.578	45
STRIP LeftWall_917	13	13	11.2	0.4	0	98.017	45
STRIP LeftWall_917	13	13	11.6	0.4	0	101.46	45
STRIP LeftWall_917	13	13	12	0.4	0	104.9	45
STRIP LeftWall_917	13	13	12.4	0.4	0	108.33	45
STRIP LeftWall_917	13	13	12.8	0.4	0	111.77	45
STRIP LeftWall_917	13	13	13.2	0.4	0	115.21	45
STRIP LeftWall_917	13	13	13.6	0.4	0	118.65	45
STRIP LeftWall_917	13	13	14	0.4	0	122.09	45
STRIP LeftWall_917	13	13	14.4	0.4	0	125.53	45
STRIP LeftWall_917	13	13	14.8	0.4	0	128.97	45
STRIP LeftWall_917	13	13	15.2	0.4	0	132.41	45
STRIP LeftWall_917	13	13	15.6	0.4	0	135.85	45
STRIP LeftWall_917	13	13	16	0.4	0	139.29	45
STRIP LeftWall_917	13	13	16.4	0.4	0	142.73	45
STRIP LeftWall_917	13	13	16.8	0.4	0	146.17	45
STRIP LeftWall_917	13	13	17.2	0.4	0	149.61	45
STRIP LeftWall_917	13	13	17.6	0.4	0	153.04	45
STRIP LeftWall_917	13	13	18	0.4	0	156.48	45
STRIP LeftWall_917	13	13	18.4	0.4	0	159.92	45
STRIP LeftWall_917	13	13	18.8	0.4	0	163.36	45
STRIP LeftWall_917	13	13	19.2	0.4	0	166.8	45
STRIP LeftWall_917	13	13	19.6	0.4	0	170.24	45
STRIP LeftWall_917	13	13	20	0.4	0	173.68	45
STRIP LeftWall_917	13	13	20.4	0.4	0	177.12	45
STRIP LeftWall_917	13	13	20.8	0.4	0	180.56	45
STRIP LeftWall_917	13	13	21.2	0.4	0	184	45
STRIP LeftWall_917	13	13	21.6	0.4	0	187.44	45
STRIP LeftWall_917	13	13	22	0.4	0	190.88	45
STRIP LeftWall_917	13	13	22.4	0.4	0	194.31	45
STRIP LeftWall_917	13	13	22.8	0.4	0	197.75	45
STRIP LeftWall_917	13	13	23.2	0.4	0	201.19	45
STRIP LeftWall_917	13	13	23.6	0.4	0	204.63	45
STRIP LeftWall_917	13	13	24	0.4	0	208.07	45
STRIP LeftWall_917	13	13	24.4	0.4	0	211.51	45
STRIP LeftWall_917	13	13	24.8	0.4	0	214.95	45
STRIP LeftWall_917	13	13	25.2	0.4	0	218.39	45
STRIP LeftWall_917	13	13	25.6	0.4	0	221.83	45
STRIP LeftWall_917	13	13	26	0.4	0	225.27	45
STRIP LeftWall_917	13	13	26.4	0.4	0	228.71	45
STRIP LeftWall_917	13	13	26.8	0.4	0	232.15	45
STRIP LeftWall_917	13	13	27.2	0.4	0	235.59	45
STRIP LeftWall_917	13	13	27.6	0.4	0	239.02	45
STRIP LeftWall_917	13	13	28	0.4	0	242.46	45
STRIP LeftWall_917	13	13	28.4	0.4	0	245.9	45
STRIP LeftWall_917	13	13	28.8	0.4	0	249.34	45
STRIP LeftWall_917	13	13	29.2	0.4	0	252.78	45
STRIP LeftWall_917	13	13	29.6	0.4	0	256.22	45
STRIP LeftWall_917	14	14	0	0.4	0	1.7196	45
STRIP LeftWall_917	14	14	0.4	0.4	0	5.1588	45
STRIP LeftWall_917	14	14	0.8	0.4	0	8.598	45
STRIP LeftWall_917	14	14	1.2	0.4	0	12.037	45
STRIP LeftWall_917	14	14	1.6	0.4	0	15.476	45
STRIP LeftWall_917	14	14	2	0.4	0	18.916	45
STRIP LeftWall_917	14	14	2.4	0.4	0	22.355	45
STRIP LeftWall_917	14	14	2.8	0.4	0	25.794	45
STRIP LeftWall_917	14	14	3.2	0.4	0	29.233	45
STRIP LeftWall_917	14	14	3.6	0.4	0	32.672	45
STRIP LeftWall_917	14	14	4	0.4	0	36.112	45
STRIP LeftWall_917	14	14	4.4	0.4	0	39.551	45
STRIP LeftWall_917	14	14	4.8	0.4	0	42.99	45
STRIP LeftWall_917	14	14	5.2	0.4	0	46.429	45
STRIP LeftWall_917	14	14	5.6	0.4	0	49.868	45
STRIP LeftWall_917	14	14	6	0.4	0	53.308	45
STRIP LeftWall_917	14	14	6.4	0.4	0	56.747	45
STRIP LeftWall_917	14	14	6.8	0.4	0	60.186	45
STRIP LeftWall_917	14	14	7.2	0.4	0	63.625	45
STRIP LeftWall_917	14	14	7.6	0.4	0	67.064	45
STRIP LeftWall_917	14	14	8	0.4	0	70.504	45
STRIP LeftWall_917	14	14	8.4	0.4	0	73.943	45
STRIP LeftWall_917	14	14	8.8	0.4	0	77.382	45
STRIP LeftWall_917	14	14	9.2	0.4	0	80.821	45
STRIP LeftWall_917	14	14	9.6	0.4	0	84.26	45
STRIP LeftWall_917	14	14	10	0.4	0	87.7	45
STRIP LeftWall_917	14	14	10.4	0.4	0	91.139	45
STRIP LeftWall_917	14	14	10.8	0.4	0	94.578	45
STRIP LeftWall_917	14	14	11.2	0.4	0	98.017	45
STRIP LeftWall_917	14	14	11.6	0.4	0	101.46	45
STRIP LeftWall_917	14	14	12	0.4	0	104.9	45
STRIP LeftWall_917	14	14	12.4	0.4	0	108.33	45
STRIP LeftWall_917	14	14	12.8	0.4	0	111.77	45
STRIP LeftWall_917	14	14	13.2	0.4	0	115.21	45
STRIP LeftWall_917	14	14	13.6	0.4	0	118.65	45
STRIP LeftWall_917	14	14	14	0.4	0	122.09	45
STRIP LeftWall_917	14	14	14.4	0.4	0	125.53	45
STRIP LeftWall_917	14	14	14.8	0.4	0	128.97	45
STRIP LeftWall_917	14	14	15.2	0.4	0	132.41	45
STRIP LeftWall_917	14	14	15.6	0.4	0	135.85	45
STRIP LeftWall_917	14	14	16	0.4	0	139.29	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 14 14 16.4 0.4 0 142.73 45
STRIP LeftWall_917 14 14 16.8 0.4 0 146.17 45
STRIP LeftWall_917 14 14 17.2 0.4 0 149.61 45
STRIP LeftWall_917 14 14 17.6 0.4 0 153.04 45
STRIP LeftWall_917 14 14 18.0 0.4 0 156.48 45
STRIP LeftWall_917 14 14 18.4 0.4 0 159.92 45
STRIP LeftWall_917 14 14 18.8 0.4 0 163.36 45
STRIP LeftWall_917 14 14 19.2 0.4 0 166.8 45
STRIP LeftWall_917 14 14 19.6 0.4 0 170.24 45
STRIP LeftWall_917 14 14 20.0 0.4 0 173.68 45
STRIP LeftWall_917 14 14 20.4 0.4 0 177.12 45
STRIP LeftWall_917 14 14 20.8 0.4 0 180.56 45
STRIP LeftWall_917 14 14 21.2 0.4 0 184 45
STRIP LeftWall_917 14 14 21.6 0.4 0 187.44 45
STRIP LeftWall_917 14 14 22.0 0.4 0 190.88 45
STRIP LeftWall_917 14 14 22.4 0.4 0 194.31 45
STRIP LeftWall_917 14 14 22.8 0.4 0 197.75 45
STRIP LeftWall_917 14 14 23.2 0.4 0 201.19 45
STRIP LeftWall_917 14 14 23.6 0.4 0 204.63 45
STRIP LeftWall_917 14 14 24.0 0.4 0 208.07 45
STRIP LeftWall_917 14 14 24.4 0.4 0 211.51 45
STRIP LeftWall_917 14 14 24.8 0.4 0 214.95 45
STRIP LeftWall_917 14 14 25.2 0.4 0 218.39 45
STRIP LeftWall_917 14 14 25.6 0.4 0 221.83 45
STRIP LeftWall_917 14 14 26.0 0.4 0 225.27 45
STRIP LeftWall_917 14 14 26.4 0.4 0 228.71 45
STRIP LeftWall_917 14 14 26.8 0.4 0 232.15 45
STRIP LeftWall_917 14 14 27.2 0.4 0 235.59 45
STRIP LeftWall_917 14 14 27.6 0.4 0 239.02 45
STRIP LeftWall_917 14 14 28.0 0.4 0 242.46 45
STRIP LeftWall_917 14 14 28.4 0.4 0 245.9 45
STRIP LeftWall_917 14 14 28.8 0.4 0 249.34 45
STRIP LeftWall_917 14 14 29.2 0.4 0 252.78 45
STRIP LeftWall_917 14 14 29.6 0.4 0 256.22 45

* 7: Defining Steps
STEP Stepn.0Condizioniniziali_924
CHANGE Coltredestritica_2_905_L_0 U-FRICT=30 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-FRICT=30 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KA=0.333 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KP=4.288 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KA=0.333 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KP=4.288 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KP=5.879 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KP=5.879 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-COHE=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-ADHES=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-COHE=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-ADHES=0 LeftWall_917
SETWALL LeftWall_917
GEOM 0 0
SURCHARGE 0 0 0 0
WATER -30 0 -18 0 0
ADD LeftWallElement_1092
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.1Fasediscavol-Fasel_935
SETWALL LeftWall_917
GEOM 0 -3.8
SURCHARGE 0 0 0 -3.5
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.2Fasediscavol-Fase2_953
SETWALL LeftWall_917
GEOM 0 -3.8
SURCHARGE 0 0 0 -3.5
WATER -30 0 -18 0 0
ADD Tirantiesistenti+591.00_965
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.3Fasediscavo2-Fasel_973
SETWALL LeftWall_917
GEOM 0 -7.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.4Fasediscavo2-Fase2_991
SETWALL LeftWall_917
GEOM 0 -7.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
ADD Tirantiesistenti+587.00_1003
VARIABLE LeftWallElement_1092 0.5

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

```
ENDSTEP

STEP Stepn.5Fasediscavo3-Fase1_7442
SETWALL LeftWall_917
GEOM 0 -10.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.6Fasediscavo3-Fase2_8893
SETWALL LeftWall_917
GEOM 0 -10.8
SURCHARGE 0 0 0 -6.25
WATER -30 0 -18 0 0
ADD Tirantiesistenti+584.00_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.7Fasefinalisediscavoes_1011
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.8Primotirantenuovo_1029
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
ADD TirantinuoviT1_3735
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.9Secondotirantenuovo_1049
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
ADD TirantinuoviT2_10346
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.10Terzotirantenuovo_10348
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
ADD TirantinuoviT3_10599
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage11Rilasciotirantiesis_3737
SETWALL LeftWall_917
GEOM 0 -13.3
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
REMOVE Tirantiesistenti+591.00_965 Tirantiesistenti+587.00_1003
REMOVE Tirantiesistenti+584.00_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage12Scavodiprogetto_98268
SETWALL LeftWall_917
GEOM 0 -14.5
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage13Sisma_100691
SETWALL LeftWall_917
GEOM 0 -14.5
SURCHARGE 0 0 0 -9
WATER -30 0 -18 0 0
CHANGE Coltredestritica_2_905_L_0 U-KAED=0.59647 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KAEW=1.0372 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KPED=3.9463 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KPEW=2.4763 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KAED=0.52506 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KAEW=1.2417 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KPED=2.627 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KPEW=0.85515 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KAED=0.5003 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KAEW=0.7327 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KPED=5.5548 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KPEW=4.3355 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KAED=0.4404 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KAEW=0.7799 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KPED=3.7695 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KPEW=2.3816 LeftWall_917
EQK USER 0.2897 0.14485 -0.14485 25.532 0.5 0 0.5 0 0
* Defining seismic surcharge pressures on wall LeftWall_917
*   min elevation = -14.5
*   max elevation = 0
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:

Mandanti:



*ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo*

```
*          average gamma = 20.3793103448276
*          kh = 0.2897
*          deltaQ = 465.484528125
DLOAD step LeftWall_917 -14.5 32.102 0 32.102
* Include pressure Contribution from wall: LeftWall_917
* Include wall contribution
DLOAD step LeftWall_917 -14.5 0.41256 0 0.41256
VARIABLE LeftWallElement_1092 0.5
** SUBINCREMENT LOGIC - active since June 2019
  SUBINCREMENTS 2
ENDSTEP
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



12 ALLEGATO 03: SEZIONE 3 FILE INPUT PARATIE PLUS

12.1 Design Assumption : Nominal - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: Nominal
* Time:mercoledì 14 dicembre 2022 10:41:01
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_917 0 -14.5 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_917 -14.5 0 1 0
SOIL 0_R LeftWall_917 -14.5 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Coltredetrifica_2_905_L_0)
*
LDATA Coltredetrifica_2_905_L_0 25 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 18 10 10
PERMEABILITY 1E-05
RESISTANCE 0 30 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 30000 48000
ENDDL
*
* Soil Profile (Marnaarenacea_8_906_L_0)
*
LDATA Marnaarenacea_8_906_L_0 -3 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 21 13 10
PERMEABILITY 0.0001
RESISTANCE 100 35 0 0 0
TZDATA LINEAR 20000 0 30 0.5 0
KSCALE 0 0
YOUNG 1E+06 1.6E+06
ENDDL

* 5: Defining structural materials
* Rebar material: 54 Name=Strands 270 ksi E=200100000 kPa
MATERIAL Strands270ksi_54 2.001E+08
* Concrete material: 1093 Name=C20/25 E=29962000 kPa
MATERIAL C2025_1093 2.9962E+07
* Steel material: 43 Name=Fe510 E=206000200 kPa
MATERIAL Fe510_43 2.06E+08

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later
BEAM LeftWallElement_1092 LeftWall_917 -14.5 0 Fe510_43 0.080792 0.018495 4.3946E-05 1.4241 00 00 0

* 6.2: Supports
WIRE Tirantiesistenti+587.00_965 LeftWall_917 -4 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+584.00_1003 LeftWall_917 -7 Strands270ksi_54 1.9841E-05 62.5 15 0 0
WIRE TirantinuoviT3_3643 LeftWall_917 -9 Strands270ksi_54 1.9501E-05 62.5 15 0 0
WIRE TirantinuoviT1_3735 LeftWall_917 -2 Strands270ksi_54 1.611E-05 62.5 15 0 0

* 6.3: Strips

* (slope contribution)
STRIP LeftWall_917 1 1 0 0.4 0 1.224 45
STRIP LeftWall_917 1 1 0.4 0.4 0 3.672 45
STRIP LeftWall_917 1 1 0.8 0.4 0 6.12 45
STRIP LeftWall_917 1 1 1.2 0.4 0 8.568 45
STRIP LeftWall_917 1 1 1.6 0.4 0 11.016 45
STRIP LeftWall_917 1 1 2 0.4 0 13.464 45
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



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Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP	LeftWall_917	1	1	2.4	0.4	0	15.912	45
STRIP	LeftWall_917	1	1	2.8	0.4	0	18.36	45
STRIP	LeftWall_917	1	1	3.2	0.4	0	20.808	45
STRIP	LeftWall_917	1	1	3.6	0.4	0	23.256	45
STRIP	LeftWall_917	1	1	4	0.4	0	25.704	45
STRIP	LeftWall_917	1	1	4.4	0.4	0	28.152	45
STRIP	LeftWall_917	1	1	4.8	0.4	0	30.6	45
STRIP	LeftWall_917	1	1	5.2	0.4	0	33.048	45
STRIP	LeftWall_917	1	1	5.6	0.4	0	35.496	45
STRIP	LeftWall_917	1	1	6	0.4	0	37.944	45
STRIP	LeftWall_917	1	1	6.4	0.4	0	40.392	45
STRIP	LeftWall_917	1	1	6.8	0.4	0	42.84	45
STRIP	LeftWall_917	1	1	7.2	0.4	0	45.288	45
STRIP	LeftWall_917	1	1	7.6	0.4	0	47.736	45
STRIP	LeftWall_917	1	1	8	0.4	0	50.184	45
STRIP	LeftWall_917	1	1	8.4	0.4	0	52.632	45
STRIP	LeftWall_917	1	1	8.8	0.4	0	55.08	45
STRIP	LeftWall_917	1	1	9.2	0.4	0	57.528	45
STRIP	LeftWall_917	1	1	9.6	0.4	0	59.976	45
STRIP	LeftWall_917	1	1	10	0.4	0	62.424	45
STRIP	LeftWall_917	1	1	10.4	0.4	0	64.872	45
STRIP	LeftWall_917	1	1	10.8	0.4	0	67.32	45
STRIP	LeftWall_917	1	1	11.2	0.4	0	69.768	45
STRIP	LeftWall_917	1	1	11.6	0.4	0	72.216	45
STRIP	LeftWall_917	1	1	12	0.4	0	74.664	45
STRIP	LeftWall_917	1	1	12.4	0.4	0	77.112	45
STRIP	LeftWall_917	1	1	12.8	0.4	0	79.56	45
STRIP	LeftWall_917	1	1	13.2	0.4	0	82.008	45
STRIP	LeftWall_917	1	1	13.6	0.4	0	84.456	45
STRIP	LeftWall_917	1	1	14	0.4	0	86.904	45
STRIP	LeftWall_917	1	1	14.4	0.4	0	89.352	45
STRIP	LeftWall_917	1	1	14.8	0.4	0	91.8	45
STRIP	LeftWall_917	1	1	15.2	0.4	0	94.248	45
STRIP	LeftWall_917	1	1	15.6	0.4	0	96.696	45
STRIP	LeftWall_917	1	1	16	0.4	0	99.144	45
STRIP	LeftWall_917	1	1	16.4	0.4	0	101.59	45
STRIP	LeftWall_917	1	1	16.8	0.4	0	104.04	45
STRIP	LeftWall_917	1	1	17.2	0.4	0	106.49	45
STRIP	LeftWall_917	1	1	17.6	0.4	0	108.94	45
STRIP	LeftWall_917	1	1	18	0.4	0	111.38	45
STRIP	LeftWall_917	1	1	18.4	0.4	0	113.83	45
STRIP	LeftWall_917	1	1	18.8	0.4	0	116.28	45
STRIP	LeftWall_917	1	1	19.2	0.4	0	118.73	45
STRIP	LeftWall_917	1	1	19.6	0.4	0	121.18	45
STRIP	LeftWall_917	1	1	20	0.4	0	123.62	45
STRIP	LeftWall_917	1	1	20.4	0.4	0	126.07	45
STRIP	LeftWall_917	1	1	20.8	0.4	0	128.52	45
STRIP	LeftWall_917	1	1	21.2	0.4	0	130.97	45
STRIP	LeftWall_917	1	1	21.6	0.4	0	133.42	45
STRIP	LeftWall_917	1	1	22	0.4	0	135.86	45
STRIP	LeftWall_917	1	1	22.4	0.4	0	138.31	45
STRIP	LeftWall_917	1	1	22.8	0.4	0	140.76	45
STRIP	LeftWall_917	1	1	23.2	0.4	0	143.21	45
STRIP	LeftWall_917	1	1	23.6	0.4	0	145.66	45
STRIP	LeftWall_917	1	1	24	0.4	0	148.1	45
STRIP	LeftWall_917	1	1	24.4	0.4	0	150.55	45
STRIP	LeftWall_917	1	1	24.8	0.4	0	153	45
STRIP	LeftWall_917	1	1	25.2	0.4	0	155.45	45
STRIP	LeftWall_917	1	1	25.6	0.4	0	157.9	45
STRIP	LeftWall_917	1	1	26	0.4	0	160.34	45
STRIP	LeftWall_917	1	1	26.4	0.4	0	162.79	45
STRIP	LeftWall_917	1	1	26.8	0.4	0	165.24	45
STRIP	LeftWall_917	1	1	27.2	0.4	0	167.69	45
STRIP	LeftWall_917	1	1	27.6	0.4	0	170.14	45
STRIP	LeftWall_917	1	1	28	0.4	0	172.58	45
STRIP	LeftWall_917	1	1	28.4	0.4	0	175.03	45
STRIP	LeftWall_917	1	1	28.8	0.4	0	177.48	45
STRIP	LeftWall_917	1	1	29.2	0.4	0	179.93	45
STRIP	LeftWall_917	1	1	29.6	0.4	0	182.38	45
STRIP	LeftWall_917	2	2	0	0.4	0	1.224	45
STRIP	LeftWall_917	2	2	0.4	0.4	0	3.672	45
STRIP	LeftWall_917	2	2	0.8	0.4	0	6.12	45
STRIP	LeftWall_917	2	2	1.2	0.4	0	8.568	45
STRIP	LeftWall_917	2	2	1.6	0.4	0	11.016	45
STRIP	LeftWall_917	2	2	2	0.4	0	13.464	45
STRIP	LeftWall_917	2	2	2.4	0.4	0	15.912	45
STRIP	LeftWall_917	2	2	2.8	0.4	0	18.36	45
STRIP	LeftWall_917	2	2	3.2	0.4	0	20.808	45
STRIP	LeftWall_917	2	2	3.6	0.4	0	23.256	45
STRIP	LeftWall_917	2	2	4	0.4	0	25.704	45
STRIP	LeftWall_917	2	2	4.4	0.4	0	28.152	45
STRIP	LeftWall_917	2	2	4.8	0.4	0	30.6	45
STRIP	LeftWall_917	2	2	5.2	0.4	0	33.048	45
STRIP	LeftWall_917	2	2	5.6	0.4	0	35.496	45
STRIP	LeftWall_917	2	2	6	0.4	0	37.944	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	2	2	6.4	0.4	0	40.392	45
STRIP LeftWall_917	2	2	6.8	0.4	0	42.84	45
STRIP LeftWall_917	2	2	7.2	0.4	0	45.288	45
STRIP LeftWall_917	2	2	7.6	0.4	0	47.736	45
STRIP LeftWall_917	2	2	8	0.4	0	50.184	45
STRIP LeftWall_917	2	2	8.4	0.4	0	52.632	45
STRIP LeftWall_917	2	2	8.8	0.4	0	55.08	45
STRIP LeftWall_917	2	2	9.2	0.4	0	57.528	45
STRIP LeftWall_917	2	2	9.6	0.4	0	59.976	45
STRIP LeftWall_917	2	2	10	0.4	0	62.424	45
STRIP LeftWall_917	2	2	10.4	0.4	0	64.872	45
STRIP LeftWall_917	2	2	10.8	0.4	0	67.32	45
STRIP LeftWall_917	2	2	11.2	0.4	0	69.768	45
STRIP LeftWall_917	2	2	11.6	0.4	0	72.216	45
STRIP LeftWall_917	2	2	12	0.4	0	74.664	45
STRIP LeftWall_917	2	2	12.4	0.4	0	77.112	45
STRIP LeftWall_917	2	2	12.8	0.4	0	79.56	45
STRIP LeftWall_917	2	2	13.2	0.4	0	82.008	45
STRIP LeftWall_917	2	2	13.6	0.4	0	84.456	45
STRIP LeftWall_917	2	2	14	0.4	0	86.904	45
STRIP LeftWall_917	2	2	14.4	0.4	0	89.352	45
STRIP LeftWall_917	2	2	14.8	0.4	0	91.8	45
STRIP LeftWall_917	2	2	15.2	0.4	0	94.248	45
STRIP LeftWall_917	2	2	15.6	0.4	0	96.696	45
STRIP LeftWall_917	2	2	16	0.4	0	99.144	45
STRIP LeftWall_917	2	2	16.4	0.4	0	101.59	45
STRIP LeftWall_917	2	2	16.8	0.4	0	104.04	45
STRIP LeftWall_917	2	2	17.2	0.4	0	106.49	45
STRIP LeftWall_917	2	2	17.6	0.4	0	108.94	45
STRIP LeftWall_917	2	2	18	0.4	0	111.38	45
STRIP LeftWall_917	2	2	18.4	0.4	0	113.83	45
STRIP LeftWall_917	2	2	18.8	0.4	0	116.28	45
STRIP LeftWall_917	2	2	19.2	0.4	0	118.73	45
STRIP LeftWall_917	2	2	19.6	0.4	0	121.18	45
STRIP LeftWall_917	2	2	20	0.4	0	123.62	45
STRIP LeftWall_917	2	2	20.4	0.4	0	126.07	45
STRIP LeftWall_917	2	2	20.8	0.4	0	128.52	45
STRIP LeftWall_917	2	2	21.2	0.4	0	130.97	45
STRIP LeftWall_917	2	2	21.6	0.4	0	133.42	45
STRIP LeftWall_917	2	2	22	0.4	0	135.86	45
STRIP LeftWall_917	2	2	22.4	0.4	0	138.31	45
STRIP LeftWall_917	2	2	22.8	0.4	0	140.76	45
STRIP LeftWall_917	2	2	23.2	0.4	0	143.21	45
STRIP LeftWall_917	2	2	23.6	0.4	0	145.66	45
STRIP LeftWall_917	2	2	24	0.4	0	148.1	45
STRIP LeftWall_917	2	2	24.4	0.4	0	150.55	45
STRIP LeftWall_917	2	2	24.8	0.4	0	153	45
STRIP LeftWall_917	2	2	25.2	0.4	0	155.45	45
STRIP LeftWall_917	2	2	25.6	0.4	0	157.9	45
STRIP LeftWall_917	2	2	26	0.4	0	160.34	45
STRIP LeftWall_917	2	2	26.4	0.4	0	162.79	45
STRIP LeftWall_917	2	2	26.8	0.4	0	165.24	45
STRIP LeftWall_917	2	2	27.2	0.4	0	167.69	45
STRIP LeftWall_917	2	2	27.6	0.4	0	170.14	45
STRIP LeftWall_917	2	2	28	0.4	0	172.58	45
STRIP LeftWall_917	2	2	28.4	0.4	0	175.03	45
STRIP LeftWall_917	2	2	28.8	0.4	0	177.48	45
STRIP LeftWall_917	2	2	29.2	0.4	0	179.93	45
STRIP LeftWall_917	2	2	29.6	0.4	0	182.38	45
STRIP LeftWall_917	3	3	0	0.4	0	1.224	45
STRIP LeftWall_917	3	3	0.4	0.4	0	3.672	45
STRIP LeftWall_917	3	3	0.8	0.4	0	6.12	45
STRIP LeftWall_917	3	3	1.2	0.4	0	8.568	45
STRIP LeftWall_917	3	3	1.6	0.4	0	11.016	45
STRIP LeftWall_917	3	3	2	0.4	0	13.464	45
STRIP LeftWall_917	3	3	2.4	0.4	0	15.912	45
STRIP LeftWall_917	3	3	2.8	0.4	0	18.36	45
STRIP LeftWall_917	3	3	3.2	0.4	0	20.808	45
STRIP LeftWall_917	3	3	3.6	0.4	0	23.256	45
STRIP LeftWall_917	3	3	4	0.4	0	25.704	45
STRIP LeftWall_917	3	3	4.4	0.4	0	28.152	45
STRIP LeftWall_917	3	3	4.8	0.4	0	30.6	45
STRIP LeftWall_917	3	3	5.2	0.4	0	33.048	45
STRIP LeftWall_917	3	3	5.6	0.4	0	35.496	45
STRIP LeftWall_917	3	3	6	0.4	0	37.944	45
STRIP LeftWall_917	3	3	6.4	0.4	0	40.392	45
STRIP LeftWall_917	3	3	6.8	0.4	0	42.84	45
STRIP LeftWall_917	3	3	7.2	0.4	0	45.288	45
STRIP LeftWall_917	3	3	7.6	0.4	0	47.736	45
STRIP LeftWall_917	3	3	8	0.4	0	50.184	45
STRIP LeftWall_917	3	3	8.4	0.4	0	52.632	45
STRIP LeftWall_917	3	3	8.8	0.4	0	55.08	45
STRIP LeftWall_917	3	3	9.2	0.4	0	57.528	45
STRIP LeftWall_917	3	3	9.6	0.4	0	59.976	45
STRIP LeftWall_917	3	3	10	0.4	0	62.424	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP	LeftWall_917	3	3	10.4	0.4	0	64.872	45
STRIP	LeftWall_917	3	3	10.8	0.4	0	67.32	45
STRIP	LeftWall_917	3	3	11.2	0.4	0	69.768	45
STRIP	LeftWall_917	3	3	11.6	0.4	0	72.216	45
STRIP	LeftWall_917	3	3	12	0.4	0	74.664	45
STRIP	LeftWall_917	3	3	12.4	0.4	0	77.112	45
STRIP	LeftWall_917	3	3	12.8	0.4	0	79.56	45
STRIP	LeftWall_917	3	3	13.2	0.4	0	82.008	45
STRIP	LeftWall_917	3	3	13.6	0.4	0	84.456	45
STRIP	LeftWall_917	3	3	14	0.4	0	86.904	45
STRIP	LeftWall_917	3	3	14.4	0.4	0	89.352	45
STRIP	LeftWall_917	3	3	14.8	0.4	0	91.8	45
STRIP	LeftWall_917	3	3	15.2	0.4	0	94.248	45
STRIP	LeftWall_917	3	3	15.6	0.4	0	96.696	45
STRIP	LeftWall_917	3	3	16	0.4	0	99.144	45
STRIP	LeftWall_917	3	3	16.4	0.4	0	101.59	45
STRIP	LeftWall_917	3	3	16.8	0.4	0	104.04	45
STRIP	LeftWall_917	3	3	17.2	0.4	0	106.49	45
STRIP	LeftWall_917	3	3	17.6	0.4	0	108.94	45
STRIP	LeftWall_917	3	3	18	0.4	0	111.38	45
STRIP	LeftWall_917	3	3	18.4	0.4	0	113.83	45
STRIP	LeftWall_917	3	3	18.8	0.4	0	116.28	45
STRIP	LeftWall_917	3	3	19.2	0.4	0	118.73	45
STRIP	LeftWall_917	3	3	19.6	0.4	0	121.18	45
STRIP	LeftWall_917	3	3	20	0.4	0	123.62	45
STRIP	LeftWall_917	3	3	20.4	0.4	0	126.07	45
STRIP	LeftWall_917	3	3	20.8	0.4	0	128.52	45
STRIP	LeftWall_917	3	3	21.2	0.4	0	130.97	45
STRIP	LeftWall_917	3	3	21.6	0.4	0	133.42	45
STRIP	LeftWall_917	3	3	22	0.4	0	135.86	45
STRIP	LeftWall_917	3	3	22.4	0.4	0	138.31	45
STRIP	LeftWall_917	3	3	22.8	0.4	0	140.76	45
STRIP	LeftWall_917	3	3	23.2	0.4	0	143.21	45
STRIP	LeftWall_917	3	3	23.6	0.4	0	145.66	45
STRIP	LeftWall_917	3	3	24	0.4	0	148.1	45
STRIP	LeftWall_917	3	3	24.4	0.4	0	150.55	45
STRIP	LeftWall_917	3	3	24.8	0.4	0	153	45
STRIP	LeftWall_917	3	3	25.2	0.4	0	155.45	45
STRIP	LeftWall_917	3	3	25.6	0.4	0	157.9	45
STRIP	LeftWall_917	3	3	26	0.4	0	160.34	45
STRIP	LeftWall_917	3	3	26.4	0.4	0	162.79	45
STRIP	LeftWall_917	3	3	26.8	0.4	0	165.24	45
STRIP	LeftWall_917	3	3	27.2	0.4	0	167.69	45
STRIP	LeftWall_917	3	3	27.6	0.4	0	170.14	45
STRIP	LeftWall_917	3	3	28	0.4	0	172.58	45
STRIP	LeftWall_917	3	3	28.4	0.4	0	175.03	45
STRIP	LeftWall_917	3	3	28.8	0.4	0	177.48	45
STRIP	LeftWall_917	3	3	29.2	0.4	0	179.93	45
STRIP	LeftWall_917	3	3	29.6	0.4	0	182.38	45
STRIP	LeftWall_917	4	4	0	0.4	0	1.224	45
STRIP	LeftWall_917	4	4	0.4	0.4	0	3.672	45
STRIP	LeftWall_917	4	4	0.8	0.4	0	6.12	45
STRIP	LeftWall_917	4	4	1.2	0.4	0	8.568	45
STRIP	LeftWall_917	4	4	1.6	0.4	0	11.016	45
STRIP	LeftWall_917	4	4	2	0.4	0	13.464	45
STRIP	LeftWall_917	4	4	2.4	0.4	0	15.912	45
STRIP	LeftWall_917	4	4	2.8	0.4	0	18.36	45
STRIP	LeftWall_917	4	4	3.2	0.4	0	20.808	45
STRIP	LeftWall_917	4	4	3.6	0.4	0	23.256	45
STRIP	LeftWall_917	4	4	4	0.4	0	25.704	45
STRIP	LeftWall_917	4	4	4.4	0.4	0	28.152	45
STRIP	LeftWall_917	4	4	4.8	0.4	0	30.6	45
STRIP	LeftWall_917	4	4	5.2	0.4	0	33.048	45
STRIP	LeftWall_917	4	4	5.6	0.4	0	35.496	45
STRIP	LeftWall_917	4	4	6	0.4	0	37.944	45
STRIP	LeftWall_917	4	4	6.4	0.4	0	40.392	45
STRIP	LeftWall_917	4	4	6.8	0.4	0	42.84	45
STRIP	LeftWall_917	4	4	7.2	0.4	0	45.288	45
STRIP	LeftWall_917	4	4	7.6	0.4	0	47.736	45
STRIP	LeftWall_917	4	4	8	0.4	0	50.184	45
STRIP	LeftWall_917	4	4	8.4	0.4	0	52.632	45
STRIP	LeftWall_917	4	4	8.8	0.4	0	55.08	45
STRIP	LeftWall_917	4	4	9.2	0.4	0	57.528	45
STRIP	LeftWall_917	4	4	9.6	0.4	0	59.976	45
STRIP	LeftWall_917	4	4	10	0.4	0	62.424	45
STRIP	LeftWall_917	4	4	10.4	0.4	0	64.872	45
STRIP	LeftWall_917	4	4	10.8	0.4	0	67.32	45
STRIP	LeftWall_917	4	4	11.2	0.4	0	69.768	45
STRIP	LeftWall_917	4	4	11.6	0.4	0	72.216	45
STRIP	LeftWall_917	4	4	12	0.4	0	74.664	45
STRIP	LeftWall_917	4	4	12.4	0.4	0	77.112	45
STRIP	LeftWall_917	4	4	12.8	0.4	0	79.56	45
STRIP	LeftWall_917	4	4	13.2	0.4	0	82.008	45
STRIP	LeftWall_917	4	4	13.6	0.4	0	84.456	45
STRIP	LeftWall_917	4	4	14	0.4	0	86.904	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	4	4	14.4	0.4	0	89.352	45
STRIP LeftWall_917	4	4	14.8	0.4	0	91.8	45
STRIP LeftWall_917	4	4	15.2	0.4	0	94.248	45
STRIP LeftWall_917	4	4	15.6	0.4	0	96.696	45
STRIP LeftWall_917	4	4	16	0.4	0	99.144	45
STRIP LeftWall_917	4	4	16.4	0.4	0	101.59	45
STRIP LeftWall_917	4	4	16.8	0.4	0	104.04	45
STRIP LeftWall_917	4	4	17.2	0.4	0	106.49	45
STRIP LeftWall_917	4	4	17.6	0.4	0	108.94	45
STRIP LeftWall_917	4	4	18	0.4	0	111.38	45
STRIP LeftWall_917	4	4	18.4	0.4	0	113.83	45
STRIP LeftWall_917	4	4	18.8	0.4	0	116.28	45
STRIP LeftWall_917	4	4	19.2	0.4	0	118.73	45
STRIP LeftWall_917	4	4	19.6	0.4	0	121.18	45
STRIP LeftWall_917	4	4	20	0.4	0	123.62	45
STRIP LeftWall_917	4	4	20.4	0.4	0	126.07	45
STRIP LeftWall_917	4	4	20.8	0.4	0	128.52	45
STRIP LeftWall_917	4	4	21.2	0.4	0	130.97	45
STRIP LeftWall_917	4	4	21.6	0.4	0	133.42	45
STRIP LeftWall_917	4	4	22	0.4	0	135.86	45
STRIP LeftWall_917	4	4	22.4	0.4	0	138.31	45
STRIP LeftWall_917	4	4	22.8	0.4	0	140.76	45
STRIP LeftWall_917	4	4	23.2	0.4	0	143.21	45
STRIP LeftWall_917	4	4	23.6	0.4	0	145.66	45
STRIP LeftWall_917	4	4	24	0.4	0	148.1	45
STRIP LeftWall_917	4	4	24.4	0.4	0	150.55	45
STRIP LeftWall_917	4	4	24.8	0.4	0	153	45
STRIP LeftWall_917	4	4	25.2	0.4	0	155.45	45
STRIP LeftWall_917	4	4	25.6	0.4	0	157.9	45
STRIP LeftWall_917	4	4	26	0.4	0	160.34	45
STRIP LeftWall_917	4	4	26.4	0.4	0	162.79	45
STRIP LeftWall_917	4	4	26.8	0.4	0	165.24	45
STRIP LeftWall_917	4	4	27.2	0.4	0	167.69	45
STRIP LeftWall_917	4	4	27.6	0.4	0	170.14	45
STRIP LeftWall_917	4	4	28	0.4	0	172.58	45
STRIP LeftWall_917	4	4	28.4	0.4	0	175.03	45
STRIP LeftWall_917	4	4	28.8	0.4	0	177.48	45
STRIP LeftWall_917	4	4	29.2	0.4	0	179.93	45
STRIP LeftWall_917	4	4	29.6	0.4	0	182.38	45
STRIP LeftWall_917	5	0	0.4	0	1.224	45	
STRIP LeftWall_917	5	0.4	0.4	0	3.672	45	
STRIP LeftWall_917	5	0.8	0.4	0	6.12	45	
STRIP LeftWall_917	5	1.2	0.4	0	8.568	45	
STRIP LeftWall_917	5	1.6	0.4	0	11.016	45	
STRIP LeftWall_917	5	2	0.4	0	13.464	45	
STRIP LeftWall_917	5	2.4	0.4	0	15.912	45	
STRIP LeftWall_917	5	2.8	0.4	0	18.36	45	
STRIP LeftWall_917	5	3.2	0.4	0	20.808	45	
STRIP LeftWall_917	5	3.6	0.4	0	23.256	45	
STRIP LeftWall_917	5	4	0.4	0	25.704	45	
STRIP LeftWall_917	5	4.4	0.4	0	28.152	45	
STRIP LeftWall_917	5	4.8	0.4	0	30.6	45	
STRIP LeftWall_917	5	5.2	0.4	0	33.048	45	
STRIP LeftWall_917	5	5.6	0.4	0	35.496	45	
STRIP LeftWall_917	5	6	0.4	0	37.944	45	
STRIP LeftWall_917	5	6.4	0.4	0	40.392	45	
STRIP LeftWall_917	5	6.8	0.4	0	42.84	45	
STRIP LeftWall_917	5	7.2	0.4	0	45.288	45	
STRIP LeftWall_917	5	7.6	0.4	0	47.736	45	
STRIP LeftWall_917	5	8	0.4	0	50.184	45	
STRIP LeftWall_917	5	8.4	0.4	0	52.632	45	
STRIP LeftWall_917	5	8.8	0.4	0	55.08	45	
STRIP LeftWall_917	5	9.2	0.4	0	57.528	45	
STRIP LeftWall_917	5	9.6	0.4	0	59.976	45	
STRIP LeftWall_917	5	10	0.4	0	62.424	45	
STRIP LeftWall_917	5	10.4	0.4	0	64.872	45	
STRIP LeftWall_917	5	10.8	0.4	0	67.32	45	
STRIP LeftWall_917	5	11.2	0.4	0	69.768	45	
STRIP LeftWall_917	5	11.6	0.4	0	72.216	45	
STRIP LeftWall_917	5	12	0.4	0	74.664	45	
STRIP LeftWall_917	5	12.4	0.4	0	77.112	45	
STRIP LeftWall_917	5	12.8	0.4	0	79.56	45	
STRIP LeftWall_917	5	13.2	0.4	0	82.008	45	
STRIP LeftWall_917	5	13.6	0.4	0	84.456	45	
STRIP LeftWall_917	5	14	0.4	0	86.904	45	
STRIP LeftWall_917	5	14.4	0.4	0	89.352	45	
STRIP LeftWall_917	5	14.8	0.4	0	91.8	45	
STRIP LeftWall_917	5	15.2	0.4	0	94.248	45	
STRIP LeftWall_917	5	15.6	0.4	0	96.696	45	
STRIP LeftWall_917	5	16	0.4	0	99.144	45	
STRIP LeftWall_917	5	16.4	0.4	0	101.59	45	
STRIP LeftWall_917	5	16.8	0.4	0	104.04	45	
STRIP LeftWall_917	5	17.2	0.4	0	106.49	45	
STRIP LeftWall_917	5	17.6	0.4	0	108.94	45	
STRIP LeftWall_917	5	18	0.4	0	111.38	45	

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 5 5 18.4 0.4 0 113.83 45
STRIP LeftWall_917 5 5 18.8 0.4 0 116.28 45
STRIP LeftWall_917 5 5 19.2 0.4 0 118.73 45
STRIP LeftWall_917 5 5 19.6 0.4 0 121.18 45
STRIP LeftWall_917 5 5 20 0.4 0 123.62 45
STRIP LeftWall_917 5 5 20.4 0.4 0 126.07 45
STRIP LeftWall_917 5 5 20.8 0.4 0 128.52 45
STRIP LeftWall_917 5 5 21.2 0.4 0 130.97 45
STRIP LeftWall_917 5 5 21.6 0.4 0 133.42 45
STRIP LeftWall_917 5 5 22 0.4 0 135.86 45
STRIP LeftWall_917 5 5 22.4 0.4 0 138.31 45
STRIP LeftWall_917 5 5 22.8 0.4 0 140.76 45
STRIP LeftWall_917 5 5 23.2 0.4 0 143.21 45
STRIP LeftWall_917 5 5 23.6 0.4 0 145.66 45
STRIP LeftWall_917 5 5 24 0.4 0 148.1 45
STRIP LeftWall_917 5 5 24.4 0.4 0 150.55 45
STRIP LeftWall_917 5 5 24.8 0.4 0 153 45
STRIP LeftWall_917 5 5 25.2 0.4 0 155.45 45
STRIP LeftWall_917 5 5 25.6 0.4 0 157.9 45
STRIP LeftWall_917 5 5 26 0.4 0 160.34 45
STRIP LeftWall_917 5 5 26.4 0.4 0 162.79 45
STRIP LeftWall_917 5 5 26.8 0.4 0 165.24 45
STRIP LeftWall_917 5 5 27.2 0.4 0 167.69 45
STRIP LeftWall_917 5 5 27.6 0.4 0 170.14 45
STRIP LeftWall_917 5 5 28 0.4 0 172.58 45
STRIP LeftWall_917 5 5 28.4 0.4 0 175.03 45
STRIP LeftWall_917 5 5 28.8 0.4 0 177.48 45
STRIP LeftWall_917 5 5 29.2 0.4 0 179.93 45
STRIP LeftWall_917 5 5 29.6 0.4 0 182.38 45
STRIP LeftWall_917 6 6 0 0.4 0 1.224 45
STRIP LeftWall_917 6 6 0.4 0.4 0 3.672 45
STRIP LeftWall_917 6 6 0.8 0.4 0 6.12 45
STRIP LeftWall_917 6 6 1.2 0.4 0 8.568 45
STRIP LeftWall_917 6 6 1.6 0.4 0 11.016 45
STRIP LeftWall_917 6 6 2 0.4 0 13.464 45
STRIP LeftWall_917 6 6 2.4 0.4 0 15.912 45
STRIP LeftWall_917 6 6 2.8 0.4 0 18.36 45
STRIP LeftWall_917 6 6 3.2 0.4 0 20.808 45
STRIP LeftWall_917 6 6 3.6 0.4 0 23.256 45
STRIP LeftWall_917 6 6 4 0.4 0 25.704 45
STRIP LeftWall_917 6 6 4.4 0.4 0 28.152 45
STRIP LeftWall_917 6 6 4.8 0.4 0 30.6 45
STRIP LeftWall_917 6 6 5.2 0.4 0 33.048 45
STRIP LeftWall_917 6 6 5.6 0.4 0 35.496 45
STRIP LeftWall_917 6 6 6 0.4 0 37.944 45
STRIP LeftWall_917 6 6 6.4 0.4 0 40.392 45
STRIP LeftWall_917 6 6 6.8 0.4 0 42.84 45
STRIP LeftWall_917 6 6 7.2 0.4 0 45.288 45
STRIP LeftWall_917 6 6 7.6 0.4 0 47.736 45
STRIP LeftWall_917 6 6 8 0.4 0 50.184 45
STRIP LeftWall_917 6 6 8.4 0.4 0 52.632 45
STRIP LeftWall_917 6 6 8.8 0.4 0 55.08 45
STRIP LeftWall_917 6 6 9.2 0.4 0 57.528 45
STRIP LeftWall_917 6 6 9.6 0.4 0 59.976 45
STRIP LeftWall_917 6 6 10 0.4 0 62.424 45
STRIP LeftWall_917 6 6 10.4 0.4 0 64.872 45
STRIP LeftWall_917 6 6 10.8 0.4 0 67.32 45
STRIP LeftWall_917 6 6 11.2 0.4 0 69.768 45
STRIP LeftWall_917 6 6 11.6 0.4 0 72.216 45
STRIP LeftWall_917 6 6 12 0.4 0 74.664 45
STRIP LeftWall_917 6 6 12.4 0.4 0 77.112 45
STRIP LeftWall_917 6 6 12.8 0.4 0 79.56 45
STRIP LeftWall_917 6 6 13.2 0.4 0 82.008 45
STRIP LeftWall_917 6 6 13.6 0.4 0 84.456 45
STRIP LeftWall_917 6 6 14 0.4 0 86.904 45
STRIP LeftWall_917 6 6 14.4 0.4 0 89.352 45
STRIP LeftWall_917 6 6 14.8 0.4 0 91.8 45
STRIP LeftWall_917 6 6 15.2 0.4 0 94.248 45
STRIP LeftWall_917 6 6 15.6 0.4 0 96.696 45
STRIP LeftWall_917 6 6 16 0.4 0 99.144 45
STRIP LeftWall_917 6 6 16.4 0.4 0 101.59 45
STRIP LeftWall_917 6 6 16.8 0.4 0 104.04 45
STRIP LeftWall_917 6 6 17.2 0.4 0 106.49 45
STRIP LeftWall_917 6 6 17.6 0.4 0 108.94 45
STRIP LeftWall_917 6 6 18 0.4 0 111.38 45
STRIP LeftWall_917 6 6 18.4 0.4 0 113.83 45
STRIP LeftWall_917 6 6 18.8 0.4 0 116.28 45
STRIP LeftWall_917 6 6 19.2 0.4 0 118.73 45
STRIP LeftWall_917 6 6 19.6 0.4 0 121.18 45
STRIP LeftWall_917 6 6 20 0.4 0 123.62 45
STRIP LeftWall_917 6 6 20.4 0.4 0 126.07 45
STRIP LeftWall_917 6 6 20.8 0.4 0 128.52 45
STRIP LeftWall_917 6 6 21.2 0.4 0 130.97 45
STRIP LeftWall_917 6 6 21.6 0.4 0 133.42 45
STRIP LeftWall_917 6 6 22 0.4 0 135.86 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP	LeftWall_917	6	6	22.4	0.4	0	138.31	45
STRIP	LeftWall_917	6	6	22.8	0.4	0	140.76	45
STRIP	LeftWall_917	6	6	23.2	0.4	0	143.21	45
STRIP	LeftWall_917	6	6	23.6	0.4	0	145.66	45
STRIP	LeftWall_917	6	6	24	0.4	0	148.1	45
STRIP	LeftWall_917	6	6	24.4	0.4	0	150.55	45
STRIP	LeftWall_917	6	6	24.8	0.4	0	153	45
STRIP	LeftWall_917	6	6	25.2	0.4	0	155.45	45
STRIP	LeftWall_917	6	6	25.6	0.4	0	157.9	45
STRIP	LeftWall_917	6	6	26	0.4	0	160.34	45
STRIP	LeftWall_917	6	6	26.4	0.4	0	162.79	45
STRIP	LeftWall_917	6	6	26.8	0.4	0	165.24	45
STRIP	LeftWall_917	6	6	27.2	0.4	0	167.69	45
STRIP	LeftWall_917	6	6	27.6	0.4	0	170.14	45
STRIP	LeftWall_917	6	6	28	0.4	0	172.58	45
STRIP	LeftWall_917	6	6	28.4	0.4	0	175.03	45
STRIP	LeftWall_917	6	6	28.8	0.4	0	177.48	45
STRIP	LeftWall_917	6	6	29.2	0.4	0	179.93	45
STRIP	LeftWall_917	6	6	29.6	0.4	0	182.38	45
STRIP	LeftWall_917	7	7	0	0.4	0	1.224	45
STRIP	LeftWall_917	7	7	0.4	0.4	0	3.672	45
STRIP	LeftWall_917	7	7	0.8	0.4	0	6.12	45
STRIP	LeftWall_917	7	7	1.2	0.4	0	8.568	45
STRIP	LeftWall_917	7	7	1.6	0.4	0	11.016	45
STRIP	LeftWall_917	7	7	2	0.4	0	13.464	45
STRIP	LeftWall_917	7	7	2.4	0.4	0	15.912	45
STRIP	LeftWall_917	7	7	2.8	0.4	0	18.36	45
STRIP	LeftWall_917	7	7	3.2	0.4	0	20.808	45
STRIP	LeftWall_917	7	7	3.6	0.4	0	23.256	45
STRIP	LeftWall_917	7	7	4	0.4	0	25.704	45
STRIP	LeftWall_917	7	7	4.4	0.4	0	28.152	45
STRIP	LeftWall_917	7	7	4.8	0.4	0	30.6	45
STRIP	LeftWall_917	7	7	5.2	0.4	0	33.048	45
STRIP	LeftWall_917	7	7	5.6	0.4	0	35.496	45
STRIP	LeftWall_917	7	7	6	0.4	0	37.944	45
STRIP	LeftWall_917	7	7	6.4	0.4	0	40.392	45
STRIP	LeftWall_917	7	7	6.8	0.4	0	42.84	45
STRIP	LeftWall_917	7	7	7.2	0.4	0	45.288	45
STRIP	LeftWall_917	7	7	7.6	0.4	0	47.736	45
STRIP	LeftWall_917	7	7	8	0.4	0	50.184	45
STRIP	LeftWall_917	7	7	8.4	0.4	0	52.632	45
STRIP	LeftWall_917	7	7	8.8	0.4	0	55.08	45
STRIP	LeftWall_917	7	7	9.2	0.4	0	57.528	45
STRIP	LeftWall_917	7	7	9.6	0.4	0	59.976	45
STRIP	LeftWall_917	7	7	10	0.4	0	62.424	45
STRIP	LeftWall_917	7	7	10.4	0.4	0	64.872	45
STRIP	LeftWall_917	7	7	10.8	0.4	0	67.32	45
STRIP	LeftWall_917	7	7	11.2	0.4	0	69.768	45
STRIP	LeftWall_917	7	7	11.6	0.4	0	72.216	45
STRIP	LeftWall_917	7	7	12	0.4	0	74.664	45
STRIP	LeftWall_917	7	7	12.4	0.4	0	77.112	45
STRIP	LeftWall_917	7	7	12.8	0.4	0	79.56	45
STRIP	LeftWall_917	7	7	13.2	0.4	0	82.008	45
STRIP	LeftWall_917	7	7	13.6	0.4	0	84.456	45
STRIP	LeftWall_917	7	7	14	0.4	0	86.904	45
STRIP	LeftWall_917	7	7	14.4	0.4	0	89.352	45
STRIP	LeftWall_917	7	7	14.8	0.4	0	91.8	45
STRIP	LeftWall_917	7	7	15.2	0.4	0	94.248	45
STRIP	LeftWall_917	7	7	15.6	0.4	0	96.696	45
STRIP	LeftWall_917	7	7	16	0.4	0	99.144	45
STRIP	LeftWall_917	7	7	16.4	0.4	0	101.59	45
STRIP	LeftWall_917	7	7	16.8	0.4	0	104.04	45
STRIP	LeftWall_917	7	7	17.2	0.4	0	106.49	45
STRIP	LeftWall_917	7	7	17.6	0.4	0	108.94	45
STRIP	LeftWall_917	7	7	18	0.4	0	111.38	45
STRIP	LeftWall_917	7	7	18.4	0.4	0	113.83	45
STRIP	LeftWall_917	7	7	18.8	0.4	0	116.28	45
STRIP	LeftWall_917	7	7	19.2	0.4	0	118.73	45
STRIP	LeftWall_917	7	7	19.6	0.4	0	121.18	45
STRIP	LeftWall_917	7	7	20	0.4	0	123.62	45
STRIP	LeftWall_917	7	7	20.4	0.4	0	126.07	45
STRIP	LeftWall_917	7	7	20.8	0.4	0	128.52	45
STRIP	LeftWall_917	7	7	21.2	0.4	0	130.97	45
STRIP	LeftWall_917	7	7	21.6	0.4	0	133.42	45
STRIP	LeftWall_917	7	7	22	0.4	0	135.86	45
STRIP	LeftWall_917	7	7	22.4	0.4	0	138.31	45
STRIP	LeftWall_917	7	7	22.8	0.4	0	140.76	45
STRIP	LeftWall_917	7	7	23.2	0.4	0	143.21	45
STRIP	LeftWall_917	7	7	23.6	0.4	0	145.66	45
STRIP	LeftWall_917	7	7	24	0.4	0	148.1	45
STRIP	LeftWall_917	7	7	24.4	0.4	0	150.55	45
STRIP	LeftWall_917	7	7	24.8	0.4	0	153	45
STRIP	LeftWall_917	7	7	25.2	0.4	0	155.45	45
STRIP	LeftWall_917	7	7	25.6	0.4	0	157.9	45
STRIP	LeftWall_917	7	7	26	0.4	0	160.34	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 7 7 26.4 0.4 0 162.79 45
STRIP LeftWall_917 7 7 26.8 0.4 0 165.24 45
STRIP LeftWall_917 7 7 27.2 0.4 0 167.69 45
STRIP LeftWall_917 7 7 27.6 0.4 0 170.14 45
STRIP LeftWall_917 7 7 28 0.4 0 172.58 45
STRIP LeftWall_917 7 7 28.4 0.4 0 175.03 45
STRIP LeftWall_917 7 7 28.8 0.4 0 177.48 45
STRIP LeftWall_917 7 7 29.2 0.4 0 179.93 45
STRIP LeftWall_917 7 7 29.6 0.4 0 182.38 45
STRIP LeftWall_917 8 8 0 0.4 0 1.224 45
STRIP LeftWall_917 8 8 0.4 0.4 0 3.672 45
STRIP LeftWall_917 8 8 0.8 0.4 0 6.12 45
STRIP LeftWall_917 8 8 1.2 0.4 0 8.568 45
STRIP LeftWall_917 8 8 1.6 0.4 0 11.016 45
STRIP LeftWall_917 8 8 2 0.4 0 13.464 45
STRIP LeftWall_917 8 8 2.4 0.4 0 15.912 45
STRIP LeftWall_917 8 8 2.8 0.4 0 18.36 45
STRIP LeftWall_917 8 8 3.2 0.4 0 20.808 45
STRIP LeftWall_917 8 8 3.6 0.4 0 23.256 45
STRIP LeftWall_917 8 8 4 0.4 0 25.704 45
STRIP LeftWall_917 8 8 4.4 0.4 0 28.152 45
STRIP LeftWall_917 8 8 4.8 0.4 0 30.6 45
STRIP LeftWall_917 8 8 5.2 0.4 0 33.048 45
STRIP LeftWall_917 8 8 5.6 0.4 0 35.496 45
STRIP LeftWall_917 8 8 6 0.4 0 37.944 45
STRIP LeftWall_917 8 8 6.4 0.4 0 40.392 45
STRIP LeftWall_917 8 8 6.8 0.4 0 42.84 45
STRIP LeftWall_917 8 8 7.2 0.4 0 45.288 45
STRIP LeftWall_917 8 8 7.6 0.4 0 47.736 45
STRIP LeftWall_917 8 8 8 0.4 0 50.184 45
STRIP LeftWall_917 8 8 8.4 0.4 0 52.632 45
STRIP LeftWall_917 8 8 8.8 0.4 0 55.08 45
STRIP LeftWall_917 8 8 9.2 0.4 0 57.528 45
STRIP LeftWall_917 8 8 9.6 0.4 0 59.976 45
STRIP LeftWall_917 8 8 10 0.4 0 62.424 45
STRIP LeftWall_917 8 8 10.4 0.4 0 64.872 45
STRIP LeftWall_917 8 8 10.8 0.4 0 67.32 45
STRIP LeftWall_917 8 8 11.2 0.4 0 69.768 45
STRIP LeftWall_917 8 8 11.6 0.4 0 72.216 45
STRIP LeftWall_917 8 8 12 0.4 0 74.664 45
STRIP LeftWall_917 8 8 12.4 0.4 0 77.112 45
STRIP LeftWall_917 8 8 12.8 0.4 0 79.56 45
STRIP LeftWall_917 8 8 13.2 0.4 0 82.008 45
STRIP LeftWall_917 8 8 13.6 0.4 0 84.456 45
STRIP LeftWall_917 8 8 14 0.4 0 86.904 45
STRIP LeftWall_917 8 8 14.4 0.4 0 89.352 45
STRIP LeftWall_917 8 8 14.8 0.4 0 91.8 45
STRIP LeftWall_917 8 8 15.2 0.4 0 94.248 45
STRIP LeftWall_917 8 8 15.6 0.4 0 96.696 45
STRIP LeftWall_917 8 8 16 0.4 0 99.144 45
STRIP LeftWall_917 8 8 16.4 0.4 0 101.59 45
STRIP LeftWall_917 8 8 16.8 0.4 0 104.04 45
STRIP LeftWall_917 8 8 17.2 0.4 0 106.49 45
STRIP LeftWall_917 8 8 17.6 0.4 0 108.94 45
STRIP LeftWall_917 8 8 18 0.4 0 111.38 45
STRIP LeftWall_917 8 8 18.4 0.4 0 113.83 45
STRIP LeftWall_917 8 8 18.8 0.4 0 116.28 45
STRIP LeftWall_917 8 8 19.2 0.4 0 118.73 45
STRIP LeftWall_917 8 8 19.6 0.4 0 121.18 45
STRIP LeftWall_917 8 8 20 0.4 0 123.62 45
STRIP LeftWall_917 8 8 20.4 0.4 0 126.07 45
STRIP LeftWall_917 8 8 20.8 0.4 0 128.52 45
STRIP LeftWall_917 8 8 21.2 0.4 0 130.97 45
STRIP LeftWall_917 8 8 21.6 0.4 0 133.42 45
STRIP LeftWall_917 8 8 22 0.4 0 135.86 45
STRIP LeftWall_917 8 8 22.4 0.4 0 138.31 45
STRIP LeftWall_917 8 8 22.8 0.4 0 140.76 45
STRIP LeftWall_917 8 8 23.2 0.4 0 143.21 45
STRIP LeftWall_917 8 8 23.6 0.4 0 145.66 45
STRIP LeftWall_917 8 8 24 0.4 0 148.1 45
STRIP LeftWall_917 8 8 24.4 0.4 0 150.55 45
STRIP LeftWall_917 8 8 24.8 0.4 0 153 45
STRIP LeftWall_917 8 8 25.2 0.4 0 155.45 45
STRIP LeftWall_917 8 8 25.6 0.4 0 157.9 45
STRIP LeftWall_917 8 8 26 0.4 0 160.34 45
STRIP LeftWall_917 8 8 26.4 0.4 0 162.79 45
STRIP LeftWall_917 8 8 26.8 0.4 0 165.24 45
STRIP LeftWall_917 8 8 27.2 0.4 0 167.69 45
STRIP LeftWall_917 8 8 27.6 0.4 0 170.14 45
STRIP LeftWall_917 8 8 28 0.4 0 172.58 45
STRIP LeftWall_917 8 8 28.4 0.4 0 175.03 45
STRIP LeftWall_917 8 8 28.8 0.4 0 177.48 45
STRIP LeftWall_917 8 8 29.2 0.4 0 179.93 45
STRIP LeftWall_917 8 8 29.6 0.4 0 182.38 45
STRIP LeftWall_917 9 9 0 0.4 0 1.224 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 9 9 0.4 0.4 0 3.672 45
STRIP LeftWall_917 9 9 0.8 0.4 0 6.12 45
STRIP LeftWall_917 9 9 1.2 0.4 0 8.568 45
STRIP LeftWall_917 9 9 1.6 0.4 0 11.016 45
STRIP LeftWall_917 9 9 2 0.4 0 13.464 45
STRIP LeftWall_917 9 9 2.4 0.4 0 15.912 45
STRIP LeftWall_917 9 9 2.8 0.4 0 18.36 45
STRIP LeftWall_917 9 9 3.2 0.4 0 20.808 45
STRIP LeftWall_917 9 9 3.6 0.4 0 23.256 45
STRIP LeftWall_917 9 9 4 0.4 0 25.704 45
STRIP LeftWall_917 9 9 4.4 0.4 0 28.152 45
STRIP LeftWall_917 9 9 4.8 0.4 0 30.6 45
STRIP LeftWall_917 9 9 5.2 0.4 0 33.048 45
STRIP LeftWall_917 9 9 5.6 0.4 0 35.496 45
STRIP LeftWall_917 9 9 6 0.4 0 37.944 45
STRIP LeftWall_917 9 9 6.4 0.4 0 40.392 45
STRIP LeftWall_917 9 9 6.8 0.4 0 42.84 45
STRIP LeftWall_917 9 9 7.2 0.4 0 45.288 45
STRIP LeftWall_917 9 9 7.6 0.4 0 47.736 45
STRIP LeftWall_917 9 9 8 0.4 0 50.184 45
STRIP LeftWall_917 9 9 8.4 0.4 0 52.632 45
STRIP LeftWall_917 9 9 8.8 0.4 0 55.08 45
STRIP LeftWall_917 9 9 9.2 0.4 0 57.528 45
STRIP LeftWall_917 9 9 9.6 0.4 0 59.976 45
STRIP LeftWall_917 9 9 10 0.4 0 62.424 45
STRIP LeftWall_917 9 9 10.4 0.4 0 64.872 45
STRIP LeftWall_917 9 9 10.8 0.4 0 67.32 45
STRIP LeftWall_917 9 9 11.2 0.4 0 69.768 45
STRIP LeftWall_917 9 9 11.6 0.4 0 72.216 45
STRIP LeftWall_917 9 9 12 0.4 0 74.664 45
STRIP LeftWall_917 9 9 12.4 0.4 0 77.112 45
STRIP LeftWall_917 9 9 12.8 0.4 0 79.56 45
STRIP LeftWall_917 9 9 13.2 0.4 0 82.008 45
STRIP LeftWall_917 9 9 13.6 0.4 0 84.456 45
STRIP LeftWall_917 9 9 14 0.4 0 86.904 45
STRIP LeftWall_917 9 9 14.4 0.4 0 89.352 45
STRIP LeftWall_917 9 9 14.8 0.4 0 91.8 45
STRIP LeftWall_917 9 9 15.2 0.4 0 94.248 45
STRIP LeftWall_917 9 9 15.6 0.4 0 96.696 45
STRIP LeftWall_917 9 9 16 0.4 0 99.144 45
STRIP LeftWall_917 9 9 16.4 0.4 0 101.59 45
STRIP LeftWall_917 9 9 16.8 0.4 0 104.04 45
STRIP LeftWall_917 9 9 17.2 0.4 0 106.49 45
STRIP LeftWall_917 9 9 17.6 0.4 0 108.94 45
STRIP LeftWall_917 9 9 18 0.4 0 111.38 45
STRIP LeftWall_917 9 9 18.4 0.4 0 113.83 45
STRIP LeftWall_917 9 9 18.8 0.4 0 116.28 45
STRIP LeftWall_917 9 9 19.2 0.4 0 118.73 45
STRIP LeftWall_917 9 9 19.6 0.4 0 121.18 45
STRIP LeftWall_917 9 9 20 0.4 0 123.62 45
STRIP LeftWall_917 9 9 20.4 0.4 0 126.07 45
STRIP LeftWall_917 9 9 20.8 0.4 0 128.52 45
STRIP LeftWall_917 9 9 21.2 0.4 0 130.97 45
STRIP LeftWall_917 9 9 21.6 0.4 0 133.42 45
STRIP LeftWall_917 9 9 22 0.4 0 135.86 45
STRIP LeftWall_917 9 9 22.4 0.4 0 138.31 45
STRIP LeftWall_917 9 9 22.8 0.4 0 140.76 45
STRIP LeftWall_917 9 9 23.2 0.4 0 143.21 45
STRIP LeftWall_917 9 9 23.6 0.4 0 145.66 45
STRIP LeftWall_917 9 9 24 0.4 0 148.1 45
STRIP LeftWall_917 9 9 24.4 0.4 0 150.55 45
STRIP LeftWall_917 9 9 24.8 0.4 0 153 45
STRIP LeftWall_917 9 9 25.2 0.4 0 155.45 45
STRIP LeftWall_917 9 9 25.6 0.4 0 157.9 45
STRIP LeftWall_917 9 9 26 0.4 0 160.34 45
STRIP LeftWall_917 9 9 26.4 0.4 0 162.79 45
STRIP LeftWall_917 9 9 26.8 0.4 0 165.24 45
STRIP LeftWall_917 9 9 27.2 0.4 0 167.69 45
STRIP LeftWall_917 9 9 27.6 0.4 0 170.14 45
STRIP LeftWall_917 9 9 28 0.4 0 172.58 45
STRIP LeftWall_917 9 9 28.4 0.4 0 175.03 45
STRIP LeftWall_917 9 9 28.8 0.4 0 177.48 45
STRIP LeftWall_917 9 9 29.2 0.4 0 179.93 45
STRIP LeftWall_917 9 9 29.6 0.4 0 182.38 45
STRIP LeftWall_917 10 10 0 0.4 0 1.224 45
STRIP LeftWall_917 10 10 0.4 0.4 0 3.672 45
STRIP LeftWall_917 10 10 0.8 0.4 0 6.12 45
STRIP LeftWall_917 10 10 1.2 0.4 0 8.568 45
STRIP LeftWall_917 10 10 1.6 0.4 0 11.016 45
STRIP LeftWall_917 10 10 2 0.4 0 13.464 45
STRIP LeftWall_917 10 10 2.4 0.4 0 15.912 45
STRIP LeftWall_917 10 10 2.8 0.4 0 18.36 45
STRIP LeftWall_917 10 10 3.2 0.4 0 20.808 45
STRIP LeftWall_917 10 10 3.6 0.4 0 23.256 45
STRIP LeftWall_917 10 10 4 0.4 0 25.704 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	10	10	4.4	0.4	0	28.152	45
STRIP LeftWall_917	10	10	4.8	0.4	0	30.6	45
STRIP LeftWall_917	10	10	5.2	0.4	0	33.048	45
STRIP LeftWall_917	10	10	5.6	0.4	0	35.496	45
STRIP LeftWall_917	10	10	6.0	0.4	0	37.944	45
STRIP LeftWall_917	10	10	6.4	0.4	0	40.392	45
STRIP LeftWall_917	10	10	6.8	0.4	0	42.84	45
STRIP LeftWall_917	10	10	7.2	0.4	0	45.288	45
STRIP LeftWall_917	10	10	7.6	0.4	0	47.736	45
STRIP LeftWall_917	10	10	8.0	0.4	0	50.184	45
STRIP LeftWall_917	10	10	8.4	0.4	0	52.632	45
STRIP LeftWall_917	10	10	8.8	0.4	0	55.08	45
STRIP LeftWall_917	10	10	9.2	0.4	0	57.528	45
STRIP LeftWall_917	10	10	9.6	0.4	0	59.976	45
STRIP LeftWall_917	10	10	10.0	0.4	0	62.424	45
STRIP LeftWall_917	10	10	10.4	0.4	0	64.872	45
STRIP LeftWall_917	10	10	10.8	0.4	0	67.32	45
STRIP LeftWall_917	10	10	11.2	0.4	0	69.768	45
STRIP LeftWall_917	10	10	11.6	0.4	0	72.216	45
STRIP LeftWall_917	10	10	12.0	0.4	0	74.664	45
STRIP LeftWall_917	10	10	12.4	0.4	0	77.112	45
STRIP LeftWall_917	10	10	12.8	0.4	0	79.56	45
STRIP LeftWall_917	10	10	13.2	0.4	0	82.008	45
STRIP LeftWall_917	10	10	13.6	0.4	0	84.456	45
STRIP LeftWall_917	10	10	14.0	0.4	0	86.904	45
STRIP LeftWall_917	10	10	14.4	0.4	0	89.352	45
STRIP LeftWall_917	10	10	14.8	0.4	0	91.8	45
STRIP LeftWall_917	10	10	15.2	0.4	0	94.248	45
STRIP LeftWall_917	10	10	15.6	0.4	0	96.696	45
STRIP LeftWall_917	10	10	16.0	0.4	0	99.144	45
STRIP LeftWall_917	10	10	16.4	0.4	0	101.59	45
STRIP LeftWall_917	10	10	16.8	0.4	0	104.04	45
STRIP LeftWall_917	10	10	17.2	0.4	0	106.49	45
STRIP LeftWall_917	10	10	17.6	0.4	0	108.94	45
STRIP LeftWall_917	10	10	18.0	0.4	0	111.38	45
STRIP LeftWall_917	10	10	18.4	0.4	0	113.83	45
STRIP LeftWall_917	10	10	18.8	0.4	0	116.28	45
STRIP LeftWall_917	10	10	19.2	0.4	0	118.73	45
STRIP LeftWall_917	10	10	19.6	0.4	0	121.18	45
STRIP LeftWall_917	10	10	20.0	0.4	0	123.62	45
STRIP LeftWall_917	10	10	20.4	0.4	0	126.07	45
STRIP LeftWall_917	10	10	20.8	0.4	0	128.52	45
STRIP LeftWall_917	10	10	21.2	0.4	0	130.97	45
STRIP LeftWall_917	10	10	21.6	0.4	0	133.42	45
STRIP LeftWall_917	10	10	22.0	0.4	0	135.86	45
STRIP LeftWall_917	10	10	22.4	0.4	0	138.31	45
STRIP LeftWall_917	10	10	22.8	0.4	0	140.76	45
STRIP LeftWall_917	10	10	23.2	0.4	0	143.21	45
STRIP LeftWall_917	10	10	23.6	0.4	0	145.66	45
STRIP LeftWall_917	10	10	24.0	0.4	0	148.1	45
STRIP LeftWall_917	10	10	24.4	0.4	0	150.55	45
STRIP LeftWall_917	10	10	24.8	0.4	0	153	45
STRIP LeftWall_917	10	10	25.2	0.4	0	155.45	45
STRIP LeftWall_917	10	10	25.6	0.4	0	157.9	45
STRIP LeftWall_917	10	10	26.0	0.4	0	160.34	45
STRIP LeftWall_917	10	10	26.4	0.4	0	162.79	45
STRIP LeftWall_917	10	10	26.8	0.4	0	165.24	45
STRIP LeftWall_917	10	10	27.2	0.4	0	167.69	45
STRIP LeftWall_917	10	10	27.6	0.4	0	170.14	45
STRIP LeftWall_917	10	10	28.0	0.4	0	172.58	45
STRIP LeftWall_917	10	10	28.4	0.4	0	175.03	45
STRIP LeftWall_917	10	10	28.8	0.4	0	177.48	45
STRIP LeftWall_917	10	10	29.2	0.4	0	179.93	45
STRIP LeftWall_917	10	10	29.6	0.4	0	182.38	45
STRIP LeftWall_917	11	11	0.4	0.4	0	1.224	45
STRIP LeftWall_917	11	11	0.8	0.4	0	2.448	45
STRIP LeftWall_917	11	11	1.2	0.4	0	3.672	45
STRIP LeftWall_917	11	11	1.6	0.4	0	4.896	45
STRIP LeftWall_917	11	11	2.0	0.4	0	6.12	45
STRIP LeftWall_917	11	11	2.4	0.4	0	7.344	45
STRIP LeftWall_917	11	11	2.8	0.4	0	8.568	45
STRIP LeftWall_917	11	11	3.2	0.4	0	9.792	45
STRIP LeftWall_917	11	11	3.6	0.4	0	11.016	45
STRIP LeftWall_917	11	11	4.0	0.4	0	12.24	45
STRIP LeftWall_917	11	11	4.4	0.4	0	13.464	45
STRIP LeftWall_917	11	11	4.8	0.4	0	14.688	45
STRIP LeftWall_917	11	11	5.2	0.4	0	15.912	45
STRIP LeftWall_917	11	11	5.6	0.4	0	17.136	45
STRIP LeftWall_917	11	11	6.0	0.4	0	18.36	45
STRIP LeftWall_917	11	11	6.4	0.4	0	19.584	45
STRIP LeftWall_917	11	11	6.8	0.4	0	20.808	45
STRIP LeftWall_917	11	11	7.2	0.4	0	22.032	45
STRIP LeftWall_917	11	11	7.6	0.4	0	23.256	45
STRIP LeftWall_917	11	11	8.0	0.4	0	24.48	45
STRIP LeftWall_917	11	11	8.4	0.4	0	25.704	45
STRIP LeftWall_917	11	11	8.8	0.4	0	26.928	45
STRIP LeftWall_917	11	11	9.2	0.4	0	28.152	45
STRIP LeftWall_917	11	11	9.6	0.4	0	29.376	45
STRIP LeftWall_917	11	11	10.0	0.4	0	30.6	45
STRIP LeftWall_917	11	11	10.4	0.4	0	31.824	45
STRIP LeftWall_917	11	11	10.8	0.4	0	33.048	45
STRIP LeftWall_917	11	11	11.2	0.4	0	34.272	45
STRIP LeftWall_917	11	11	11.6	0.4	0	35.496	45
STRIP LeftWall_917	11	11	12.0	0.4	0	36.72	45
STRIP LeftWall_917	11	11	12.4	0.4	0	37.944	45
STRIP LeftWall_917	11	11	12.8	0.4	0	39.168	45
STRIP LeftWall_917	11	11	13.2	0.4	0	40.392	45
STRIP LeftWall_917	11	11	13.6	0.4	0	41.616	45
STRIP LeftWall_917	11	11	14.0	0.4	0	42.84	45
STRIP LeftWall_917	11	11	14.4	0.4	0	44.064	45
STRIP LeftWall_917	11	11	14.8	0.4	0	45.288	45
STRIP LeftWall_917	11	11	15.2	0.4	0	46.512	45
STRIP LeftWall_917	11	11	15.6	0.4	0	47.736	45
STRIP LeftWall_917	11	11	16.0	0.4	0	48.96	45
STRIP LeftWall_917	11	11	16.4	0.4	0	50.184	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 11 11 8.4 0.4 0 52.632 45
STRIP LeftWall_917 11 11 8.8 0.4 0 55.08 45
STRIP LeftWall_917 11 11 9.2 0.4 0 57.528 45
STRIP LeftWall_917 11 11 9.6 0.4 0 59.976 45
STRIP LeftWall_917 11 11 10 0.4 0 62.424 45
STRIP LeftWall_917 11 11 10.4 0.4 0 64.872 45
STRIP LeftWall_917 11 11 10.8 0.4 0 67.32 45
STRIP LeftWall_917 11 11 11.2 0.4 0 69.768 45
STRIP LeftWall_917 11 11 11.6 0.4 0 72.216 45
STRIP LeftWall_917 11 11 12 0.4 0 74.664 45
STRIP LeftWall_917 11 11 12.4 0.4 0 77.112 45
STRIP LeftWall_917 11 11 12.8 0.4 0 79.56 45
STRIP LeftWall_917 11 11 13.2 0.4 0 82.008 45
STRIP LeftWall_917 11 11 13.6 0.4 0 84.456 45
STRIP LeftWall_917 11 11 14 0.4 0 86.904 45
STRIP LeftWall_917 11 11 14.4 0.4 0 89.352 45
STRIP LeftWall_917 11 11 14.8 0.4 0 91.8 45
STRIP LeftWall_917 11 11 15.2 0.4 0 94.248 45
STRIP LeftWall_917 11 11 15.6 0.4 0 96.696 45
STRIP LeftWall_917 11 11 16 0.4 0 99.144 45
STRIP LeftWall_917 11 11 16.4 0.4 0 101.59 45
STRIP LeftWall_917 11 11 16.8 0.4 0 104.04 45
STRIP LeftWall_917 11 11 17.2 0.4 0 106.49 45
STRIP LeftWall_917 11 11 17.6 0.4 0 108.94 45
STRIP LeftWall_917 11 11 18 0.4 0 111.38 45
STRIP LeftWall_917 11 11 18.4 0.4 0 113.83 45
STRIP LeftWall_917 11 11 18.8 0.4 0 116.28 45
STRIP LeftWall_917 11 11 19.2 0.4 0 118.73 45
STRIP LeftWall_917 11 11 19.6 0.4 0 121.18 45
STRIP LeftWall_917 11 11 20 0.4 0 123.62 45
STRIP LeftWall_917 11 11 20.4 0.4 0 126.07 45
STRIP LeftWall_917 11 11 20.8 0.4 0 128.52 45
STRIP LeftWall_917 11 11 21.2 0.4 0 130.97 45
STRIP LeftWall_917 11 11 21.6 0.4 0 133.42 45
STRIP LeftWall_917 11 11 22 0.4 0 135.86 45
STRIP LeftWall_917 11 11 22.4 0.4 0 138.31 45
STRIP LeftWall_917 11 11 22.8 0.4 0 140.76 45
STRIP LeftWall_917 11 11 23.2 0.4 0 143.21 45
STRIP LeftWall_917 11 11 23.6 0.4 0 145.66 45
STRIP LeftWall_917 11 11 24 0.4 0 148.1 45
STRIP LeftWall_917 11 11 24.4 0.4 0 150.55 45
STRIP LeftWall_917 11 11 24.8 0.4 0 153 45
STRIP LeftWall_917 11 11 25.2 0.4 0 155.45 45
STRIP LeftWall_917 11 11 25.6 0.4 0 157.9 45
STRIP LeftWall_917 11 11 26 0.4 0 160.34 45
STRIP LeftWall_917 11 11 26.4 0.4 0 162.79 45
STRIP LeftWall_917 11 11 26.8 0.4 0 165.24 45
STRIP LeftWall_917 11 11 27.2 0.4 0 167.69 45
STRIP LeftWall_917 11 11 27.6 0.4 0 170.14 45
STRIP LeftWall_917 11 11 28 0.4 0 172.58 45
STRIP LeftWall_917 11 11 28.4 0.4 0 175.03 45
STRIP LeftWall_917 11 11 28.8 0.4 0 177.48 45
STRIP LeftWall_917 11 11 29.2 0.4 0 179.93 45
STRIP LeftWall_917 11 11 29.6 0.4 0 182.38 45

* 7: Defining Steps

STEP Stepn.0Condizioniiniziali_924
CHANGE Coltredestritica_2_905_L_0 U-FRICT=30 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-FRICT=30 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KA=0.333 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KP=4.288 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KA=0.333 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KP=4.288 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KP=5.879 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KP=5.879 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-COHE=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-ADHES=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-COHE=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-ADHES=100 LeftWall_917
SETWALL LeftWall_917
GEOM 0 0
SURCHARGE 0 0 0 0
WATER -30 0 -14.5 0 0
ADD LeftWallElement_1092
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

```
STEP Stepn.1Fasediscavo1-Fase1_935
SETWALL LeftWall_917
GEOM 0 -4.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.2Fasediscavo1-Fase2_953
SETWALL LeftWall_917
GEOM 0 -4.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -14.5 0 0
ADD Tirantiesistenti+587.00_965
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.3Fasediscavo2-Fase1_973
SETWALL LeftWall_917
GEOM 0 -7.5
SURCHARGE 0 0 0 -6.25
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.4Fasediscavo2-Fase2_991
SETWALL LeftWall_917
GEOM 0 -7.5
SURCHARGE 0 0 0 -6.25
WATER -30 0 -14.5 0 0
ADD Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.5Fasefinalisediscavoes_1011
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.6Primotirantenuovo_1029
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
ADD TirantinuoviT3_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.7Secondotirantenuovo_1049
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
ADD TirantinuoviT1_3735
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage8Rilasciotirantiesist_3737
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
REMOVE Tirantiesistenti+587.00_965 Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage9Scavodiprogetto_33947
SETWALL LeftWall_917
GEOM 0 -11.2
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage10Sisma_5719
SETWALL LeftWall_917
GEOM 0 -11.2
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
CHANGE Coltredeiritica_2_905_L_0 U-KAED=0.59647 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KAEW=1.0372 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KPED=3.9463 LeftWall_917
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



```
CHANGE Coltredestritica_2_905_L_0 U-KPEW=2.4763 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KAED=0.52506 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KAEW=1.2417 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KPED=2.627 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KPEW=0.85515 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KAED=0.5003 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KAEW=0.7327 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KPED=5.5548 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KPEW=4.3355 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KAED=0.4404 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KAEW=0.7799 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KPED=3.7695 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KPEW=2.3816 LeftWall_917
EQK USER 0.2897 0.14485 -0.14485 18.778 0.5 0 0.5 0 0
* Defining seismic surcharge pressures on wall LeftWall_917
*   min elevation = -11.2
*   max elevation = 0
*   average gamma = 20.1964285714286
*   kh = 0.2897
*   deltaQ = 275.226588
DLOAD step LeftWall_917 -11.2 24.574 0 24.574
* Include pressure contribution from wall: LeftWall_917
* Include wall contribution
DLOAD step LeftWall_917 -11.2 0.41256 0 0.41256
VARIABLE LeftWallElement_1092 0.5
** SUBINCREMENT LOGIC - active since June 2019
  SUBINCREMENTS 5
ENDSTEP
```

12.2 Design Assumption : NTC2018: SLE (Rara/Frequente/Quasi Permanente) - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: NTC2018: SLE (Rara/Frequente/Quasi Permanente)
* Time:mercoledì 14 dicembre 2022 10:41:04
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_917 0 -14.5 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_917 -14.5 0 1 0
SOIL 0_R LeftWall_917 -14.5 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Coltredestritica_2_905_L_0)
*
LDATA Coltredestritica_2_905_L_0 25 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 18 10 10
PERMEABILITY 1E-05
RESISTANCE 0 30 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 30000 48000
ENDL
*
* Soil Profile (Marnaarenacea_8_906_L_0)
*
LDATA Marnaarenacea_8_906_L_0 -3 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 21 13 10
PERMEABILITY 0.0001
RESISTANCE 100 35 0 0 0
TZDATA LINEAR 20000 0 30 0.5 0
KSCALE 0 0
YOUNG 1E+06 1.6E+06
ENDL

* 5: Defining structural materials
* Rebar material: 54 Name=Strands 270 ksi E=200100000 kPa
MATERIAL Strands270ksi_54 2.001E+08
* Concrete material: 1093 Name=C20/25 E=29962000 kPa
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

MATERIAL C2025_1093 2.9962E+07

* Steel material: 43 Name=Fe510 E=206000200 kPa

MATERIAL Fe510_43 2.06E+08

* 6: Defining structural elements

* 6.1: Beams and combined Wall Elements

** rev 2021 and later

BEAM LeftWallElement_1092 LeftWall_917 -14.5 0 Fe510_43 0.080792 0.018495 4.3946E-05 1.4241 00 00 0

* 6.2: Supports

WIRE Tirantiesistenti+587.00_965 LeftWall_917 -4 Strands270ksi_54 1.6342E-05 62.5 15 0 0

WIRE Tirantiesistenti+584.00_1003 LeftWall_917 -7 Strands270ksi_54 1.9841E-05 62.5 15 0 0

WIRE TirantinuoviT3_3643 LeftWall_917 -9 Strands270ksi_54 1.9501E-05 62.5 15 0 0

WIRE TirantinuoviT1_3735 LeftWall_917 -2 Strands270ksi_54 1.611E-05 62.5 15 0 0

* 6.3: Strips

* (slope contribution)

STRIP LeftWall_917 1 1 0 0.4 0 1.224 45
STRIP LeftWall_917 1 1 0.4 0.4 0 3.672 45
STRIP LeftWall_917 1 1 0.8 0.4 0 6.12 45
STRIP LeftWall_917 1 1 1.2 0.4 0 8.568 45
STRIP LeftWall_917 1 1 1.6 0.4 0 11.016 45
STRIP LeftWall_917 1 1 2 0.4 0 13.464 45
STRIP LeftWall_917 1 1 2.4 0.4 0 15.912 45
STRIP LeftWall_917 1 1 2.8 0.4 0 18.36 45
STRIP LeftWall_917 1 1 3.2 0.4 0 20.808 45
STRIP LeftWall_917 1 1 3.6 0.4 0 23.256 45
STRIP LeftWall_917 1 1 4 0.4 0 25.704 45
STRIP LeftWall_917 1 1 4.4 0.4 0 28.152 45
STRIP LeftWall_917 1 1 4.8 0.4 0 30.6 45
STRIP LeftWall_917 1 1 5.2 0.4 0 33.048 45
STRIP LeftWall_917 1 1 5.6 0.4 0 35.496 45
STRIP LeftWall_917 1 1 6 0.4 0 37.944 45
STRIP LeftWall_917 1 1 6.4 0.4 0 40.392 45
STRIP LeftWall_917 1 1 6.8 0.4 0 42.84 45
STRIP LeftWall_917 1 1 7.2 0.4 0 45.288 45
STRIP LeftWall_917 1 1 7.6 0.4 0 47.736 45
STRIP LeftWall_917 1 1 8 0.4 0 50.184 45
STRIP LeftWall_917 1 1 8.4 0.4 0 52.632 45
STRIP LeftWall_917 1 1 8.8 0.4 0 55.08 45
STRIP LeftWall_917 1 1 9.2 0.4 0 57.528 45
STRIP LeftWall_917 1 1 9.6 0.4 0 59.976 45
STRIP LeftWall_917 1 1 10 0.4 0 62.424 45
STRIP LeftWall_917 1 1 10.4 0.4 0 64.872 45
STRIP LeftWall_917 1 1 10.8 0.4 0 67.32 45
STRIP LeftWall_917 1 1 11.2 0.4 0 69.768 45
STRIP LeftWall_917 1 1 11.6 0.4 0 72.216 45
STRIP LeftWall_917 1 1 12 0.4 0 74.664 45
STRIP LeftWall_917 1 1 12.4 0.4 0 77.112 45
STRIP LeftWall_917 1 1 12.8 0.4 0 79.56 45
STRIP LeftWall_917 1 1 13.2 0.4 0 82.008 45
STRIP LeftWall_917 1 1 13.6 0.4 0 84.456 45
STRIP LeftWall_917 1 1 14 0.4 0 86.904 45
STRIP LeftWall_917 1 1 14.4 0.4 0 89.352 45
STRIP LeftWall_917 1 1 14.8 0.4 0 91.8 45
STRIP LeftWall_917 1 1 15.2 0.4 0 94.248 45
STRIP LeftWall_917 1 1 15.6 0.4 0 96.696 45
STRIP LeftWall_917 1 1 16 0.4 0 99.144 45
STRIP LeftWall_917 1 1 16.4 0.4 0 101.59 45
STRIP LeftWall_917 1 1 16.8 0.4 0 104.04 45
STRIP LeftWall_917 1 1 17.2 0.4 0 106.49 45
STRIP LeftWall_917 1 1 17.6 0.4 0 108.94 45
STRIP LeftWall_917 1 1 18 0.4 0 111.38 45
STRIP LeftWall_917 1 1 18.4 0.4 0 113.83 45
STRIP LeftWall_917 1 1 18.8 0.4 0 116.28 45
STRIP LeftWall_917 1 1 19.2 0.4 0 118.73 45
STRIP LeftWall_917 1 1 19.6 0.4 0 121.18 45
STRIP LeftWall_917 1 1 20 0.4 0 123.62 45
STRIP LeftWall_917 1 1 20.4 0.4 0 126.07 45
STRIP LeftWall_917 1 1 20.8 0.4 0 128.52 45
STRIP LeftWall_917 1 1 21.2 0.4 0 130.97 45
STRIP LeftWall_917 1 1 21.6 0.4 0 133.42 45
STRIP LeftWall_917 1 1 22 0.4 0 135.86 45
STRIP LeftWall_917 1 1 22.4 0.4 0 138.31 45
STRIP LeftWall_917 1 1 22.8 0.4 0 140.76 45
STRIP LeftWall_917 1 1 23.2 0.4 0 143.21 45
STRIP LeftWall_917 1 1 23.6 0.4 0 145.66 45
STRIP LeftWall_917 1 1 24 0.4 0 148.1 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 1 1 24.4 0.4 0 150.55 45
STRIP LeftWall_917 1 1 24.8 0.4 0 153 45
STRIP LeftWall_917 1 1 25.2 0.4 0 155.45 45
STRIP LeftWall_917 1 1 25.6 0.4 0 157.9 45
STRIP LeftWall_917 1 1 26 0.4 0 160.34 45
STRIP LeftWall_917 1 1 26.4 0.4 0 162.79 45
STRIP LeftWall_917 1 1 26.8 0.4 0 165.24 45
STRIP LeftWall_917 1 1 27.2 0.4 0 167.69 45
STRIP LeftWall_917 1 1 27.6 0.4 0 170.14 45
STRIP LeftWall_917 1 1 28 0.4 0 172.58 45
STRIP LeftWall_917 1 1 28.4 0.4 0 175.03 45
STRIP LeftWall_917 1 1 28.8 0.4 0 177.48 45
STRIP LeftWall_917 1 1 29.2 0.4 0 179.93 45
STRIP LeftWall_917 1 1 29.6 0.4 0 182.38 45
STRIP LeftWall_917 2 2 0 0.4 0 1.224 45
STRIP LeftWall_917 2 2 0.4 0.4 0 3.672 45
STRIP LeftWall_917 2 2 0.8 0.4 0 6.12 45
STRIP LeftWall_917 2 2 1.2 0.4 0 8.568 45
STRIP LeftWall_917 2 2 1.6 0.4 0 11.016 45
STRIP LeftWall_917 2 2 2 0.4 0 13.464 45
STRIP LeftWall_917 2 2 2.4 0.4 0 15.912 45
STRIP LeftWall_917 2 2 2.8 0.4 0 18.36 45
STRIP LeftWall_917 2 2 3.2 0.4 0 20.808 45
STRIP LeftWall_917 2 2 3.6 0.4 0 23.256 45
STRIP LeftWall_917 2 2 4 0.4 0 25.704 45
STRIP LeftWall_917 2 2 4.4 0.4 0 28.152 45
STRIP LeftWall_917 2 2 4.8 0.4 0 30.6 45
STRIP LeftWall_917 2 2 5.2 0.4 0 33.048 45
STRIP LeftWall_917 2 2 5.6 0.4 0 35.496 45
STRIP LeftWall_917 2 2 6 0.4 0 37.944 45
STRIP LeftWall_917 2 2 6.4 0.4 0 40.392 45
STRIP LeftWall_917 2 2 6.8 0.4 0 42.84 45
STRIP LeftWall_917 2 2 7.2 0.4 0 45.288 45
STRIP LeftWall_917 2 2 7.6 0.4 0 47.736 45
STRIP LeftWall_917 2 2 8 0.4 0 50.184 45
STRIP LeftWall_917 2 2 8.4 0.4 0 52.632 45
STRIP LeftWall_917 2 2 8.8 0.4 0 55.08 45
STRIP LeftWall_917 2 2 9.2 0.4 0 57.528 45
STRIP LeftWall_917 2 2 9.6 0.4 0 59.976 45
STRIP LeftWall_917 2 2 10 0.4 0 62.424 45
STRIP LeftWall_917 2 2 10.4 0.4 0 64.872 45
STRIP LeftWall_917 2 2 10.8 0.4 0 67.32 45
STRIP LeftWall_917 2 2 11.2 0.4 0 69.768 45
STRIP LeftWall_917 2 2 11.6 0.4 0 72.216 45
STRIP LeftWall_917 2 2 12 0.4 0 74.664 45
STRIP LeftWall_917 2 2 12.4 0.4 0 77.112 45
STRIP LeftWall_917 2 2 12.8 0.4 0 79.56 45
STRIP LeftWall_917 2 2 13.2 0.4 0 82.008 45
STRIP LeftWall_917 2 2 13.6 0.4 0 84.456 45
STRIP LeftWall_917 2 2 14 0.4 0 86.904 45
STRIP LeftWall_917 2 2 14.4 0.4 0 89.352 45
STRIP LeftWall_917 2 2 14.8 0.4 0 91.8 45
STRIP LeftWall_917 2 2 15.2 0.4 0 94.248 45
STRIP LeftWall_917 2 2 15.6 0.4 0 96.696 45
STRIP LeftWall_917 2 2 16 0.4 0 99.144 45
STRIP LeftWall_917 2 2 16.4 0.4 0 101.59 45
STRIP LeftWall_917 2 2 16.8 0.4 0 104.04 45
STRIP LeftWall_917 2 2 17.2 0.4 0 106.49 45
STRIP LeftWall_917 2 2 17.6 0.4 0 108.94 45
STRIP LeftWall_917 2 2 18 0.4 0 111.38 45
STRIP LeftWall_917 2 2 18.4 0.4 0 113.83 45
STRIP LeftWall_917 2 2 18.8 0.4 0 116.28 45
STRIP LeftWall_917 2 2 19.2 0.4 0 118.73 45
STRIP LeftWall_917 2 2 19.6 0.4 0 121.18 45
STRIP LeftWall_917 2 2 20 0.4 0 123.62 45
STRIP LeftWall_917 2 2 20.4 0.4 0 126.07 45
STRIP LeftWall_917 2 2 20.8 0.4 0 128.52 45
STRIP LeftWall_917 2 2 21.2 0.4 0 130.97 45
STRIP LeftWall_917 2 2 21.6 0.4 0 133.42 45
STRIP LeftWall_917 2 2 22 0.4 0 135.86 45
STRIP LeftWall_917 2 2 22.4 0.4 0 138.31 45
STRIP LeftWall_917 2 2 22.8 0.4 0 140.76 45
STRIP LeftWall_917 2 2 23.2 0.4 0 143.21 45
STRIP LeftWall_917 2 2 23.6 0.4 0 145.66 45
STRIP LeftWall_917 2 2 24 0.4 0 148.1 45
STRIP LeftWall_917 2 2 24.4 0.4 0 150.55 45
STRIP LeftWall_917 2 2 24.8 0.4 0 153 45
STRIP LeftWall_917 2 2 25.2 0.4 0 155.45 45
STRIP LeftWall_917 2 2 25.6 0.4 0 157.9 45
STRIP LeftWall_917 2 2 26 0.4 0 160.34 45
STRIP LeftWall_917 2 2 26.4 0.4 0 162.79 45
STRIP LeftWall_917 2 2 26.8 0.4 0 165.24 45
STRIP LeftWall_917 2 2 27.2 0.4 0 167.69 45
STRIP LeftWall_917 2 2 27.6 0.4 0 170.14 45
STRIP LeftWall_917 2 2 28 0.4 0 172.58 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	2	2	28.4	0.4	0	175.03	45
STRIP LeftWall_917	2	2	28.8	0.4	0	177.48	45
STRIP LeftWall_917	2	2	29.2	0.4	0	179.93	45
STRIP LeftWall_917	2	2	29.6	0.4	0	182.38	45
STRIP LeftWall_917	3	3	0	0.4	0	1.224	45
STRIP LeftWall_917	3	3	0.4	0.4	0	3.672	45
STRIP LeftWall_917	3	3	0.8	0.4	0	6.12	45
STRIP LeftWall_917	3	3	1.2	0.4	0	8.568	45
STRIP LeftWall_917	3	3	1.6	0.4	0	11.016	45
STRIP LeftWall_917	3	3	2	0.4	0	13.464	45
STRIP LeftWall_917	3	3	2.4	0.4	0	15.912	45
STRIP LeftWall_917	3	3	2.8	0.4	0	18.36	45
STRIP LeftWall_917	3	3	3.2	0.4	0	20.808	45
STRIP LeftWall_917	3	3	3.6	0.4	0	23.256	45
STRIP LeftWall_917	3	3	4	0.4	0	25.704	45
STRIP LeftWall_917	3	3	4.4	0.4	0	28.152	45
STRIP LeftWall_917	3	3	4.8	0.4	0	30.6	45
STRIP LeftWall_917	3	3	5.2	0.4	0	33.048	45
STRIP LeftWall_917	3	3	5.6	0.4	0	35.496	45
STRIP LeftWall_917	3	3	6	0.4	0	37.944	45
STRIP LeftWall_917	3	3	6.4	0.4	0	40.392	45
STRIP LeftWall_917	3	3	6.8	0.4	0	42.84	45
STRIP LeftWall_917	3	3	7.2	0.4	0	45.288	45
STRIP LeftWall_917	3	3	7.6	0.4	0	47.736	45
STRIP LeftWall_917	3	3	8	0.4	0	50.184	45
STRIP LeftWall_917	3	3	8.4	0.4	0	52.632	45
STRIP LeftWall_917	3	3	8.8	0.4	0	55.08	45
STRIP LeftWall_917	3	3	9.2	0.4	0	57.528	45
STRIP LeftWall_917	3	3	9.6	0.4	0	59.976	45
STRIP LeftWall_917	3	3	10	0.4	0	62.424	45
STRIP LeftWall_917	3	3	10.4	0.4	0	64.872	45
STRIP LeftWall_917	3	3	10.8	0.4	0	67.32	45
STRIP LeftWall_917	3	3	11.2	0.4	0	69.768	45
STRIP LeftWall_917	3	3	11.6	0.4	0	72.216	45
STRIP LeftWall_917	3	3	12	0.4	0	74.664	45
STRIP LeftWall_917	3	3	12.4	0.4	0	77.112	45
STRIP LeftWall_917	3	3	12.8	0.4	0	79.56	45
STRIP LeftWall_917	3	3	13.2	0.4	0	82.008	45
STRIP LeftWall_917	3	3	13.6	0.4	0	84.456	45
STRIP LeftWall_917	3	3	14	0.4	0	86.904	45
STRIP LeftWall_917	3	3	14.4	0.4	0	89.352	45
STRIP LeftWall_917	3	3	14.8	0.4	0	91.8	45
STRIP LeftWall_917	3	3	15.2	0.4	0	94.248	45
STRIP LeftWall_917	3	3	15.6	0.4	0	96.696	45
STRIP LeftWall_917	3	3	16	0.4	0	99.144	45
STRIP LeftWall_917	3	3	16.4	0.4	0	101.59	45
STRIP LeftWall_917	3	3	16.8	0.4	0	104.04	45
STRIP LeftWall_917	3	3	17.2	0.4	0	106.49	45
STRIP LeftWall_917	3	3	17.6	0.4	0	108.94	45
STRIP LeftWall_917	3	3	18	0.4	0	111.38	45
STRIP LeftWall_917	3	3	18.4	0.4	0	113.83	45
STRIP LeftWall_917	3	3	18.8	0.4	0	116.28	45
STRIP LeftWall_917	3	3	19.2	0.4	0	118.73	45
STRIP LeftWall_917	3	3	19.6	0.4	0	121.18	45
STRIP LeftWall_917	3	3	20	0.4	0	123.62	45
STRIP LeftWall_917	3	3	20.4	0.4	0	126.07	45
STRIP LeftWall_917	3	3	20.8	0.4	0	128.52	45
STRIP LeftWall_917	3	3	21.2	0.4	0	130.97	45
STRIP LeftWall_917	3	3	21.6	0.4	0	133.42	45
STRIP LeftWall_917	3	3	22	0.4	0	135.86	45
STRIP LeftWall_917	3	3	22.4	0.4	0	138.31	45
STRIP LeftWall_917	3	3	22.8	0.4	0	140.76	45
STRIP LeftWall_917	3	3	23.2	0.4	0	143.21	45
STRIP LeftWall_917	3	3	23.6	0.4	0	145.66	45
STRIP LeftWall_917	3	3	24	0.4	0	148.1	45
STRIP LeftWall_917	3	3	24.4	0.4	0	150.55	45
STRIP LeftWall_917	3	3	24.8	0.4	0	153	45
STRIP LeftWall_917	3	3	25.2	0.4	0	155.45	45
STRIP LeftWall_917	3	3	25.6	0.4	0	157.9	45
STRIP LeftWall_917	3	3	26	0.4	0	160.34	45
STRIP LeftWall_917	3	3	26.4	0.4	0	162.79	45
STRIP LeftWall_917	3	3	26.8	0.4	0	165.24	45
STRIP LeftWall_917	3	3	27.2	0.4	0	167.69	45
STRIP LeftWall_917	3	3	27.6	0.4	0	170.14	45
STRIP LeftWall_917	3	3	28	0.4	0	172.58	45
STRIP LeftWall_917	3	3	28.4	0.4	0	175.03	45
STRIP LeftWall_917	3	3	28.8	0.4	0	177.48	45
STRIP LeftWall_917	3	3	29.2	0.4	0	179.93	45
STRIP LeftWall_917	3	3	29.6	0.4	0	182.38	45
STRIP LeftWall_917	4	4	0	0.4	0	1.224	45
STRIP LeftWall_917	4	4	0.4	0.4	0	3.672	45
STRIP LeftWall_917	4	4	0.8	0.4	0	6.12	45
STRIP LeftWall_917	4	4	1.2	0.4	0	8.568	45
STRIP LeftWall_917	4	4	1.6	0.4	0	11.016	45
STRIP LeftWall_917	4	4	2	0.4	0	13.464	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	4	4	2.4	0.4	0	15.912	45
STRIP LeftWall_917	4	4	2.8	0.4	0	18.36	45
STRIP LeftWall_917	4	4	3.2	0.4	0	20.808	45
STRIP LeftWall_917	4	4	3.6	0.4	0	23.256	45
STRIP LeftWall_917	4	4	4	0.4	0	25.704	45
STRIP LeftWall_917	4	4	4.4	0.4	0	28.152	45
STRIP LeftWall_917	4	4	4.8	0.4	0	30.6	45
STRIP LeftWall_917	4	4	5.2	0.4	0	33.048	45
STRIP LeftWall_917	4	4	5.6	0.4	0	35.496	45
STRIP LeftWall_917	4	4	6	0.4	0	37.944	45
STRIP LeftWall_917	4	4	6.4	0.4	0	40.392	45
STRIP LeftWall_917	4	4	6.8	0.4	0	42.84	45
STRIP LeftWall_917	4	4	7.2	0.4	0	45.288	45
STRIP LeftWall_917	4	4	7.6	0.4	0	47.736	45
STRIP LeftWall_917	4	4	8	0.4	0	50.184	45
STRIP LeftWall_917	4	4	8.4	0.4	0	52.632	45
STRIP LeftWall_917	4	4	8.8	0.4	0	55.08	45
STRIP LeftWall_917	4	4	9.2	0.4	0	57.528	45
STRIP LeftWall_917	4	4	9.6	0.4	0	59.976	45
STRIP LeftWall_917	4	4	10	0.4	0	62.424	45
STRIP LeftWall_917	4	4	10.4	0.4	0	64.872	45
STRIP LeftWall_917	4	4	10.8	0.4	0	67.32	45
STRIP LeftWall_917	4	4	11.2	0.4	0	69.768	45
STRIP LeftWall_917	4	4	11.6	0.4	0	72.216	45
STRIP LeftWall_917	4	4	12	0.4	0	74.664	45
STRIP LeftWall_917	4	4	12.4	0.4	0	77.112	45
STRIP LeftWall_917	4	4	12.8	0.4	0	79.56	45
STRIP LeftWall_917	4	4	13.2	0.4	0	82.008	45
STRIP LeftWall_917	4	4	13.6	0.4	0	84.456	45
STRIP LeftWall_917	4	4	14	0.4	0	86.904	45
STRIP LeftWall_917	4	4	14.4	0.4	0	89.352	45
STRIP LeftWall_917	4	4	14.8	0.4	0	91.8	45
STRIP LeftWall_917	4	4	15.2	0.4	0	94.248	45
STRIP LeftWall_917	4	4	15.6	0.4	0	96.696	45
STRIP LeftWall_917	4	4	16	0.4	0	99.144	45
STRIP LeftWall_917	4	4	16.4	0.4	0	101.59	45
STRIP LeftWall_917	4	4	16.8	0.4	0	104.04	45
STRIP LeftWall_917	4	4	17.2	0.4	0	106.49	45
STRIP LeftWall_917	4	4	17.6	0.4	0	108.94	45
STRIP LeftWall_917	4	4	18	0.4	0	111.38	45
STRIP LeftWall_917	4	4	18.4	0.4	0	113.83	45
STRIP LeftWall_917	4	4	18.8	0.4	0	116.28	45
STRIP LeftWall_917	4	4	19.2	0.4	0	118.73	45
STRIP LeftWall_917	4	4	19.6	0.4	0	121.18	45
STRIP LeftWall_917	4	4	20	0.4	0	123.62	45
STRIP LeftWall_917	4	4	20.4	0.4	0	126.07	45
STRIP LeftWall_917	4	4	20.8	0.4	0	128.52	45
STRIP LeftWall_917	4	4	21.2	0.4	0	130.97	45
STRIP LeftWall_917	4	4	21.6	0.4	0	133.42	45
STRIP LeftWall_917	4	4	22	0.4	0	135.86	45
STRIP LeftWall_917	4	4	22.4	0.4	0	138.31	45
STRIP LeftWall_917	4	4	22.8	0.4	0	140.76	45
STRIP LeftWall_917	4	4	23.2	0.4	0	143.21	45
STRIP LeftWall_917	4	4	23.6	0.4	0	145.66	45
STRIP LeftWall_917	4	4	24	0.4	0	148.1	45
STRIP LeftWall_917	4	4	24.4	0.4	0	150.55	45
STRIP LeftWall_917	4	4	24.8	0.4	0	153	45
STRIP LeftWall_917	4	4	25.2	0.4	0	155.45	45
STRIP LeftWall_917	4	4	25.6	0.4	0	157.9	45
STRIP LeftWall_917	4	4	26	0.4	0	160.34	45
STRIP LeftWall_917	4	4	26.4	0.4	0	162.79	45
STRIP LeftWall_917	4	4	26.8	0.4	0	165.24	45
STRIP LeftWall_917	4	4	27.2	0.4	0	167.69	45
STRIP LeftWall_917	4	4	27.6	0.4	0	170.14	45
STRIP LeftWall_917	4	4	28	0.4	0	172.58	45
STRIP LeftWall_917	4	4	28.4	0.4	0	175.03	45
STRIP LeftWall_917	4	4	28.8	0.4	0	177.48	45
STRIP LeftWall_917	4	4	29.2	0.4	0	179.93	45
STRIP LeftWall_917	4	4	29.6	0.4	0	182.38	45
STRIP LeftWall_917	5	5	0	0.4	0	1.224	45
STRIP LeftWall_917	5	5	0.4	0.4	0	3.672	45
STRIP LeftWall_917	5	5	0.8	0.4	0	6.12	45
STRIP LeftWall_917	5	5	1.2	0.4	0	8.568	45
STRIP LeftWall_917	5	5	1.6	0.4	0	11.016	45
STRIP LeftWall_917	5	5	2	0.4	0	13.464	45
STRIP LeftWall_917	5	5	2.4	0.4	0	15.912	45
STRIP LeftWall_917	5	5	2.8	0.4	0	18.36	45
STRIP LeftWall_917	5	5	3.2	0.4	0	20.808	45
STRIP LeftWall_917	5	5	3.6	0.4	0	23.256	45
STRIP LeftWall_917	5	5	4	0.4	0	25.704	45
STRIP LeftWall_917	5	5	4.4	0.4	0	28.152	45
STRIP LeftWall_917	5	5	4.8	0.4	0	30.6	45
STRIP LeftWall_917	5	5	5.2	0.4	0	33.048	45
STRIP LeftWall_917	5	5	5.6	0.4	0	35.496	45
STRIP LeftWall_917	5	5	6	0.4	0	37.944	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	5	5	6.4	0.4	0	40.392	45
STRIP LeftWall_917	5	5	6.8	0.4	0	42.84	45
STRIP LeftWall_917	5	5	7.2	0.4	0	45.288	45
STRIP LeftWall_917	5	5	7.6	0.4	0	47.736	45
STRIP LeftWall_917	5	5	8	0.4	0	50.184	45
STRIP LeftWall_917	5	5	8.4	0.4	0	52.632	45
STRIP LeftWall_917	5	5	8.8	0.4	0	55.08	45
STRIP LeftWall_917	5	5	9.2	0.4	0	57.528	45
STRIP LeftWall_917	5	5	9.6	0.4	0	59.976	45
STRIP LeftWall_917	5	5	10	0.4	0	62.424	45
STRIP LeftWall_917	5	5	10.4	0.4	0	64.872	45
STRIP LeftWall_917	5	5	10.8	0.4	0	67.32	45
STRIP LeftWall_917	5	5	11.2	0.4	0	69.768	45
STRIP LeftWall_917	5	5	11.6	0.4	0	72.216	45
STRIP LeftWall_917	5	5	12	0.4	0	74.664	45
STRIP LeftWall_917	5	5	12.4	0.4	0	77.112	45
STRIP LeftWall_917	5	5	12.8	0.4	0	79.56	45
STRIP LeftWall_917	5	5	13.2	0.4	0	82.008	45
STRIP LeftWall_917	5	5	13.6	0.4	0	84.456	45
STRIP LeftWall_917	5	5	14	0.4	0	86.904	45
STRIP LeftWall_917	5	5	14.4	0.4	0	89.352	45
STRIP LeftWall_917	5	5	14.8	0.4	0	91.8	45
STRIP LeftWall_917	5	5	15.2	0.4	0	94.248	45
STRIP LeftWall_917	5	5	15.6	0.4	0	96.696	45
STRIP LeftWall_917	5	5	16	0.4	0	99.144	45
STRIP LeftWall_917	5	5	16.4	0.4	0	101.59	45
STRIP LeftWall_917	5	5	16.8	0.4	0	104.04	45
STRIP LeftWall_917	5	5	17.2	0.4	0	106.49	45
STRIP LeftWall_917	5	5	17.6	0.4	0	108.94	45
STRIP LeftWall_917	5	5	18	0.4	0	111.38	45
STRIP LeftWall_917	5	5	18.4	0.4	0	113.83	45
STRIP LeftWall_917	5	5	18.8	0.4	0	116.28	45
STRIP LeftWall_917	5	5	19.2	0.4	0	118.73	45
STRIP LeftWall_917	5	5	19.6	0.4	0	121.18	45
STRIP LeftWall_917	5	5	20	0.4	0	123.62	45
STRIP LeftWall_917	5	5	20.4	0.4	0	126.07	45
STRIP LeftWall_917	5	5	20.8	0.4	0	128.52	45
STRIP LeftWall_917	5	5	21.2	0.4	0	130.97	45
STRIP LeftWall_917	5	5	21.6	0.4	0	133.42	45
STRIP LeftWall_917	5	5	22	0.4	0	135.86	45
STRIP LeftWall_917	5	5	22.4	0.4	0	138.31	45
STRIP LeftWall_917	5	5	22.8	0.4	0	140.76	45
STRIP LeftWall_917	5	5	23.2	0.4	0	143.21	45
STRIP LeftWall_917	5	5	23.6	0.4	0	145.66	45
STRIP LeftWall_917	5	5	24	0.4	0	148.1	45
STRIP LeftWall_917	5	5	24.4	0.4	0	150.55	45
STRIP LeftWall_917	5	5	24.8	0.4	0	153	45
STRIP LeftWall_917	5	5	25.2	0.4	0	155.45	45
STRIP LeftWall_917	5	5	25.6	0.4	0	157.9	45
STRIP LeftWall_917	5	5	26	0.4	0	160.34	45
STRIP LeftWall_917	5	5	26.4	0.4	0	162.79	45
STRIP LeftWall_917	5	5	26.8	0.4	0	165.24	45
STRIP LeftWall_917	5	5	27.2	0.4	0	167.69	45
STRIP LeftWall_917	5	5	27.6	0.4	0	170.14	45
STRIP LeftWall_917	5	5	28	0.4	0	172.58	45
STRIP LeftWall_917	5	5	28.4	0.4	0	175.03	45
STRIP LeftWall_917	5	5	28.8	0.4	0	177.48	45
STRIP LeftWall_917	5	5	29.2	0.4	0	179.93	45
STRIP LeftWall_917	5	5	29.6	0.4	0	182.38	45
STRIP LeftWall_917	6	0	0.4	0	1.224	45	
STRIP LeftWall_917	6	0.4	0.4	0	3.672	45	
STRIP LeftWall_917	6	0.8	0.4	0	6.12	45	
STRIP LeftWall_917	6	1.2	0.4	0	8.568	45	
STRIP LeftWall_917	6	1.6	0.4	0	11.016	45	
STRIP LeftWall_917	6	2	0.4	0	13.464	45	
STRIP LeftWall_917	6	2.4	0.4	0	15.912	45	
STRIP LeftWall_917	6	2.8	0.4	0	18.36	45	
STRIP LeftWall_917	6	3.2	0.4	0	20.808	45	
STRIP LeftWall_917	6	3.6	0.4	0	23.256	45	
STRIP LeftWall_917	6	4	0.4	0	25.704	45	
STRIP LeftWall_917	6	4.4	0.4	0	28.152	45	
STRIP LeftWall_917	6	4.8	0.4	0	30.6	45	
STRIP LeftWall_917	6	5.2	0.4	0	33.048	45	
STRIP LeftWall_917	6	5.6	0.4	0	35.496	45	
STRIP LeftWall_917	6	6	0.4	0	37.944	45	
STRIP LeftWall_917	6	6.4	0.4	0	40.392	45	
STRIP LeftWall_917	6	6.8	0.4	0	42.84	45	
STRIP LeftWall_917	6	7.2	0.4	0	45.288	45	
STRIP LeftWall_917	6	7.6	0.4	0	47.736	45	
STRIP LeftWall_917	6	8	0.4	0	50.184	45	
STRIP LeftWall_917	6	8.4	0.4	0	52.632	45	
STRIP LeftWall_917	6	8.8	0.4	0	55.08	45	
STRIP LeftWall_917	6	9.2	0.4	0	57.528	45	
STRIP LeftWall_917	6	9.6	0.4	0	59.976	45	
STRIP LeftWall_917	6	10	0.4	0	62.424	45	

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	6	6	10.4	0.4	0	64.872	45
STRIP LeftWall_917	6	6	10.8	0.4	0	67.32	45
STRIP LeftWall_917	6	6	11.2	0.4	0	69.768	45
STRIP LeftWall_917	6	6	11.6	0.4	0	72.216	45
STRIP LeftWall_917	6	6	12	0.4	0	74.664	45
STRIP LeftWall_917	6	6	12.4	0.4	0	77.112	45
STRIP LeftWall_917	6	6	12.8	0.4	0	79.56	45
STRIP LeftWall_917	6	6	13.2	0.4	0	82.008	45
STRIP LeftWall_917	6	6	13.6	0.4	0	84.456	45
STRIP LeftWall_917	6	6	14	0.4	0	86.904	45
STRIP LeftWall_917	6	6	14.4	0.4	0	89.352	45
STRIP LeftWall_917	6	6	14.8	0.4	0	91.8	45
STRIP LeftWall_917	6	6	15.2	0.4	0	94.248	45
STRIP LeftWall_917	6	6	15.6	0.4	0	96.696	45
STRIP LeftWall_917	6	6	16	0.4	0	99.144	45
STRIP LeftWall_917	6	6	16.4	0.4	0	101.59	45
STRIP LeftWall_917	6	6	16.8	0.4	0	104.04	45
STRIP LeftWall_917	6	6	17.2	0.4	0	106.49	45
STRIP LeftWall_917	6	6	17.6	0.4	0	108.94	45
STRIP LeftWall_917	6	6	18	0.4	0	111.38	45
STRIP LeftWall_917	6	6	18.4	0.4	0	113.83	45
STRIP LeftWall_917	6	6	18.8	0.4	0	116.28	45
STRIP LeftWall_917	6	6	19.2	0.4	0	118.73	45
STRIP LeftWall_917	6	6	19.6	0.4	0	121.18	45
STRIP LeftWall_917	6	6	20	0.4	0	123.62	45
STRIP LeftWall_917	6	6	20.4	0.4	0	126.07	45
STRIP LeftWall_917	6	6	20.8	0.4	0	128.52	45
STRIP LeftWall_917	6	6	21.2	0.4	0	130.97	45
STRIP LeftWall_917	6	6	21.6	0.4	0	133.42	45
STRIP LeftWall_917	6	6	22	0.4	0	135.86	45
STRIP LeftWall_917	6	6	22.4	0.4	0	138.31	45
STRIP LeftWall_917	6	6	22.8	0.4	0	140.76	45
STRIP LeftWall_917	6	6	23.2	0.4	0	143.21	45
STRIP LeftWall_917	6	6	23.6	0.4	0	145.66	45
STRIP LeftWall_917	6	6	24	0.4	0	148.1	45
STRIP LeftWall_917	6	6	24.4	0.4	0	150.55	45
STRIP LeftWall_917	6	6	24.8	0.4	0	153	45
STRIP LeftWall_917	6	6	25.2	0.4	0	155.45	45
STRIP LeftWall_917	6	6	25.6	0.4	0	157.9	45
STRIP LeftWall_917	6	6	26	0.4	0	160.34	45
STRIP LeftWall_917	6	6	26.4	0.4	0	162.79	45
STRIP LeftWall_917	6	6	26.8	0.4	0	165.24	45
STRIP LeftWall_917	6	6	27.2	0.4	0	167.69	45
STRIP LeftWall_917	6	6	27.6	0.4	0	170.14	45
STRIP LeftWall_917	6	6	28	0.4	0	172.58	45
STRIP LeftWall_917	6	6	28.4	0.4	0	175.03	45
STRIP LeftWall_917	6	6	28.8	0.4	0	177.48	45
STRIP LeftWall_917	6	6	29.2	0.4	0	179.93	45
STRIP LeftWall_917	6	6	29.6	0.4	0	182.38	45
STRIP LeftWall_917	7	7	0	0.4	0	1.224	45
STRIP LeftWall_917	7	7	0.4	0.4	0	3.672	45
STRIP LeftWall_917	7	7	0.8	0.4	0	6.12	45
STRIP LeftWall_917	7	7	1.2	0.4	0	8.568	45
STRIP LeftWall_917	7	7	1.6	0.4	0	11.016	45
STRIP LeftWall_917	7	7	2	0.4	0	13.464	45
STRIP LeftWall_917	7	7	2.4	0.4	0	15.912	45
STRIP LeftWall_917	7	7	2.8	0.4	0	18.36	45
STRIP LeftWall_917	7	7	3.2	0.4	0	20.808	45
STRIP LeftWall_917	7	7	3.6	0.4	0	23.256	45
STRIP LeftWall_917	7	7	4	0.4	0	25.704	45
STRIP LeftWall_917	7	7	4.4	0.4	0	28.152	45
STRIP LeftWall_917	7	7	4.8	0.4	0	30.6	45
STRIP LeftWall_917	7	7	5.2	0.4	0	33.048	45
STRIP LeftWall_917	7	7	5.6	0.4	0	35.496	45
STRIP LeftWall_917	7	7	6	0.4	0	37.944	45
STRIP LeftWall_917	7	7	6.4	0.4	0	40.392	45
STRIP LeftWall_917	7	7	6.8	0.4	0	42.84	45
STRIP LeftWall_917	7	7	7.2	0.4	0	45.288	45
STRIP LeftWall_917	7	7	7.6	0.4	0	47.736	45
STRIP LeftWall_917	7	7	8	0.4	0	50.184	45
STRIP LeftWall_917	7	7	8.4	0.4	0	52.632	45
STRIP LeftWall_917	7	7	8.8	0.4	0	55.08	45
STRIP LeftWall_917	7	7	9.2	0.4	0	57.528	45
STRIP LeftWall_917	7	7	9.6	0.4	0	59.976	45
STRIP LeftWall_917	7	7	10	0.4	0	62.424	45
STRIP LeftWall_917	7	7	10.4	0.4	0	64.872	45
STRIP LeftWall_917	7	7	10.8	0.4	0	67.32	45
STRIP LeftWall_917	7	7	11.2	0.4	0	69.768	45
STRIP LeftWall_917	7	7	11.6	0.4	0	72.216	45
STRIP LeftWall_917	7	7	12	0.4	0	74.664	45
STRIP LeftWall_917	7	7	12.4	0.4	0	77.112	45
STRIP LeftWall_917	7	7	12.8	0.4	0	79.56	45
STRIP LeftWall_917	7	7	13.2	0.4	0	82.008	45
STRIP LeftWall_917	7	7	13.6	0.4	0	84.456	45
STRIP LeftWall_917	7	7	14	0.4	0	86.904	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 7 7 14.4 0.4 0 89.352 45
STRIP LeftWall_917 7 7 14.8 0.4 0 91.8 45
STRIP LeftWall_917 7 7 15.2 0.4 0 94.248 45
STRIP LeftWall_917 7 7 15.6 0.4 0 96.696 45
STRIP LeftWall_917 7 7 16 0.4 0 99.144 45
STRIP LeftWall_917 7 7 16.4 0.4 0 101.59 45
STRIP LeftWall_917 7 7 16.8 0.4 0 104.04 45
STRIP LeftWall_917 7 7 17.2 0.4 0 106.49 45
STRIP LeftWall_917 7 7 17.6 0.4 0 108.94 45
STRIP LeftWall_917 7 7 18 0.4 0 111.38 45
STRIP LeftWall_917 7 7 18.4 0.4 0 113.83 45
STRIP LeftWall_917 7 7 18.8 0.4 0 116.28 45
STRIP LeftWall_917 7 7 19.2 0.4 0 118.73 45
STRIP LeftWall_917 7 7 19.6 0.4 0 121.18 45
STRIP LeftWall_917 7 7 20 0.4 0 123.62 45
STRIP LeftWall_917 7 7 20.4 0.4 0 126.07 45
STRIP LeftWall_917 7 7 20.8 0.4 0 128.52 45
STRIP LeftWall_917 7 7 21.2 0.4 0 130.97 45
STRIP LeftWall_917 7 7 21.6 0.4 0 133.42 45
STRIP LeftWall_917 7 7 22 0.4 0 135.86 45
STRIP LeftWall_917 7 7 22.4 0.4 0 138.31 45
STRIP LeftWall_917 7 7 22.8 0.4 0 140.76 45
STRIP LeftWall_917 7 7 23.2 0.4 0 143.21 45
STRIP LeftWall_917 7 7 23.6 0.4 0 145.66 45
STRIP LeftWall_917 7 7 24 0.4 0 148.1 45
STRIP LeftWall_917 7 7 24.4 0.4 0 150.55 45
STRIP LeftWall_917 7 7 24.8 0.4 0 153 45
STRIP LeftWall_917 7 7 25.2 0.4 0 155.45 45
STRIP LeftWall_917 7 7 25.6 0.4 0 157.9 45
STRIP LeftWall_917 7 7 26 0.4 0 160.34 45
STRIP LeftWall_917 7 7 26.4 0.4 0 162.79 45
STRIP LeftWall_917 7 7 26.8 0.4 0 165.24 45
STRIP LeftWall_917 7 7 27.2 0.4 0 167.69 45
STRIP LeftWall_917 7 7 27.6 0.4 0 170.14 45
STRIP LeftWall_917 7 7 28 0.4 0 172.58 45
STRIP LeftWall_917 7 7 28.4 0.4 0 175.03 45
STRIP LeftWall_917 7 7 28.8 0.4 0 177.48 45
STRIP LeftWall_917 7 7 29.2 0.4 0 179.93 45
STRIP LeftWall_917 7 7 29.6 0.4 0 182.38 45
STRIP LeftWall_917 8 8 0 0.4 0 1.224 45
STRIP LeftWall_917 8 8 0.4 0.4 0 3.672 45
STRIP LeftWall_917 8 8 0.8 0.4 0 6.12 45
STRIP LeftWall_917 8 8 1.2 0.4 0 8.568 45
STRIP LeftWall_917 8 8 1.6 0.4 0 11.016 45
STRIP LeftWall_917 8 8 2 0.4 0 13.464 45
STRIP LeftWall_917 8 8 2.4 0.4 0 15.912 45
STRIP LeftWall_917 8 8 2.8 0.4 0 18.36 45
STRIP LeftWall_917 8 8 3.2 0.4 0 20.808 45
STRIP LeftWall_917 8 8 3.6 0.4 0 23.256 45
STRIP LeftWall_917 8 8 4 0.4 0 25.704 45
STRIP LeftWall_917 8 8 4.4 0.4 0 28.152 45
STRIP LeftWall_917 8 8 4.8 0.4 0 30.6 45
STRIP LeftWall_917 8 8 5.2 0.4 0 33.048 45
STRIP LeftWall_917 8 8 5.6 0.4 0 35.496 45
STRIP LeftWall_917 8 8 6 0.4 0 37.944 45
STRIP LeftWall_917 8 8 6.4 0.4 0 40.392 45
STRIP LeftWall_917 8 8 6.8 0.4 0 42.84 45
STRIP LeftWall_917 8 8 7.2 0.4 0 45.288 45
STRIP LeftWall_917 8 8 7.6 0.4 0 47.736 45
STRIP LeftWall_917 8 8 8 0.4 0 50.184 45
STRIP LeftWall_917 8 8 8.4 0.4 0 52.632 45
STRIP LeftWall_917 8 8 8.8 0.4 0 55.08 45
STRIP LeftWall_917 8 8 9.2 0.4 0 57.528 45
STRIP LeftWall_917 8 8 9.6 0.4 0 59.976 45
STRIP LeftWall_917 8 8 10 0.4 0 62.424 45
STRIP LeftWall_917 8 8 10.4 0.4 0 64.872 45
STRIP LeftWall_917 8 8 10.8 0.4 0 67.32 45
STRIP LeftWall_917 8 8 11.2 0.4 0 69.768 45
STRIP LeftWall_917 8 8 11.6 0.4 0 72.216 45
STRIP LeftWall_917 8 8 12 0.4 0 74.664 45
STRIP LeftWall_917 8 8 12.4 0.4 0 77.112 45
STRIP LeftWall_917 8 8 12.8 0.4 0 79.56 45
STRIP LeftWall_917 8 8 13.2 0.4 0 82.008 45
STRIP LeftWall_917 8 8 13.6 0.4 0 84.456 45
STRIP LeftWall_917 8 8 14 0.4 0 86.904 45
STRIP LeftWall_917 8 8 14.4 0.4 0 89.352 45
STRIP LeftWall_917 8 8 14.8 0.4 0 91.8 45
STRIP LeftWall_917 8 8 15.2 0.4 0 94.248 45
STRIP LeftWall_917 8 8 15.6 0.4 0 96.696 45
STRIP LeftWall_917 8 8 16 0.4 0 99.144 45
STRIP LeftWall_917 8 8 16.4 0.4 0 101.59 45
STRIP LeftWall_917 8 8 16.8 0.4 0 104.04 45
STRIP LeftWall_917 8 8 17.2 0.4 0 106.49 45
STRIP LeftWall_917 8 8 17.6 0.4 0 108.94 45
STRIP LeftWall_917 8 8 18 0.4 0 111.38 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP	LeftWall_917	8	8	18.4	0.4	0	113.83	45
STRIP	LeftWall_917	8	8	18.8	0.4	0	116.28	45
STRIP	LeftWall_917	8	8	19.2	0.4	0	118.73	45
STRIP	LeftWall_917	8	8	19.6	0.4	0	121.18	45
STRIP	LeftWall_917	8	8	20	0.4	0	123.62	45
STRIP	LeftWall_917	8	8	20.4	0.4	0	126.07	45
STRIP	LeftWall_917	8	8	20.8	0.4	0	128.52	45
STRIP	LeftWall_917	8	8	21.2	0.4	0	130.97	45
STRIP	LeftWall_917	8	8	21.6	0.4	0	133.42	45
STRIP	LeftWall_917	8	8	22	0.4	0	135.86	45
STRIP	LeftWall_917	8	8	22.4	0.4	0	138.31	45
STRIP	LeftWall_917	8	8	22.8	0.4	0	140.76	45
STRIP	LeftWall_917	8	8	23.2	0.4	0	143.21	45
STRIP	LeftWall_917	8	8	23.6	0.4	0	145.66	45
STRIP	LeftWall_917	8	8	24	0.4	0	148.1	45
STRIP	LeftWall_917	8	8	24.4	0.4	0	150.55	45
STRIP	LeftWall_917	8	8	24.8	0.4	0	153	45
STRIP	LeftWall_917	8	8	25.2	0.4	0	155.45	45
STRIP	LeftWall_917	8	8	25.6	0.4	0	157.9	45
STRIP	LeftWall_917	8	8	26	0.4	0	160.34	45
STRIP	LeftWall_917	8	8	26.4	0.4	0	162.79	45
STRIP	LeftWall_917	8	8	26.8	0.4	0	165.24	45
STRIP	LeftWall_917	8	8	27.2	0.4	0	167.69	45
STRIP	LeftWall_917	8	8	27.6	0.4	0	170.14	45
STRIP	LeftWall_917	8	8	28	0.4	0	172.58	45
STRIP	LeftWall_917	8	8	28.4	0.4	0	175.03	45
STRIP	LeftWall_917	8	8	28.8	0.4	0	177.48	45
STRIP	LeftWall_917	8	8	29.2	0.4	0	179.93	45
STRIP	LeftWall_917	8	8	29.6	0.4	0	182.38	45
STRIP	LeftWall_917	9	9	0	0.4	0	1.224	45
STRIP	LeftWall_917	9	9	0.4	0.4	0	3.672	45
STRIP	LeftWall_917	9	9	0.8	0.4	0	6.12	45
STRIP	LeftWall_917	9	9	1.2	0.4	0	8.568	45
STRIP	LeftWall_917	9	9	1.6	0.4	0	11.016	45
STRIP	LeftWall_917	9	9	2	0.4	0	13.464	45
STRIP	LeftWall_917	9	9	2.4	0.4	0	15.912	45
STRIP	LeftWall_917	9	9	2.8	0.4	0	18.36	45
STRIP	LeftWall_917	9	9	3.2	0.4	0	20.808	45
STRIP	LeftWall_917	9	9	3.6	0.4	0	23.256	45
STRIP	LeftWall_917	9	9	4	0.4	0	25.704	45
STRIP	LeftWall_917	9	9	4.4	0.4	0	28.152	45
STRIP	LeftWall_917	9	9	4.8	0.4	0	30.6	45
STRIP	LeftWall_917	9	9	5.2	0.4	0	33.048	45
STRIP	LeftWall_917	9	9	5.6	0.4	0	35.496	45
STRIP	LeftWall_917	9	9	6	0.4	0	37.944	45
STRIP	LeftWall_917	9	9	6.4	0.4	0	40.392	45
STRIP	LeftWall_917	9	9	6.8	0.4	0	42.84	45
STRIP	LeftWall_917	9	9	7.2	0.4	0	45.288	45
STRIP	LeftWall_917	9	9	7.6	0.4	0	47.736	45
STRIP	LeftWall_917	9	9	8	0.4	0	50.184	45
STRIP	LeftWall_917	9	9	8.4	0.4	0	52.632	45
STRIP	LeftWall_917	9	9	8.8	0.4	0	55.08	45
STRIP	LeftWall_917	9	9	9.2	0.4	0	57.528	45
STRIP	LeftWall_917	9	9	9.6	0.4	0	59.976	45
STRIP	LeftWall_917	9	9	10	0.4	0	62.424	45
STRIP	LeftWall_917	9	9	10.4	0.4	0	64.872	45
STRIP	LeftWall_917	9	9	10.8	0.4	0	67.32	45
STRIP	LeftWall_917	9	9	11.2	0.4	0	69.768	45
STRIP	LeftWall_917	9	9	11.6	0.4	0	72.216	45
STRIP	LeftWall_917	9	9	12	0.4	0	74.664	45
STRIP	LeftWall_917	9	9	12.4	0.4	0	77.112	45
STRIP	LeftWall_917	9	9	12.8	0.4	0	79.56	45
STRIP	LeftWall_917	9	9	13.2	0.4	0	82.008	45
STRIP	LeftWall_917	9	9	13.6	0.4	0	84.456	45
STRIP	LeftWall_917	9	9	14	0.4	0	86.904	45
STRIP	LeftWall_917	9	9	14.4	0.4	0	89.352	45
STRIP	LeftWall_917	9	9	14.8	0.4	0	91.8	45
STRIP	LeftWall_917	9	9	15.2	0.4	0	94.248	45
STRIP	LeftWall_917	9	9	15.6	0.4	0	96.696	45
STRIP	LeftWall_917	9	9	16	0.4	0	99.144	45
STRIP	LeftWall_917	9	9	16.4	0.4	0	101.59	45
STRIP	LeftWall_917	9	9	16.8	0.4	0	104.04	45
STRIP	LeftWall_917	9	9	17.2	0.4	0	106.49	45
STRIP	LeftWall_917	9	9	17.6	0.4	0	108.94	45
STRIP	LeftWall_917	9	9	18	0.4	0	111.38	45
STRIP	LeftWall_917	9	9	18.4	0.4	0	113.83	45
STRIP	LeftWall_917	9	9	18.8	0.4	0	116.28	45
STRIP	LeftWall_917	9	9	19.2	0.4	0	118.73	45
STRIP	LeftWall_917	9	9	19.6	0.4	0	121.18	45
STRIP	LeftWall_917	9	9	20	0.4	0	123.62	45
STRIP	LeftWall_917	9	9	20.4	0.4	0	126.07	45
STRIP	LeftWall_917	9	9	20.8	0.4	0	128.52	45
STRIP	LeftWall_917	9	9	21.2	0.4	0	130.97	45
STRIP	LeftWall_917	9	9	21.6	0.4	0	133.42	45
STRIP	LeftWall_917	9	9	22	0.4	0	135.86	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	9	9	22.4	0.4	0	138.31	45
STRIP LeftWall_917	9	9	22.8	0.4	0	140.76	45
STRIP LeftWall_917	9	9	23.2	0.4	0	143.21	45
STRIP LeftWall_917	9	9	23.6	0.4	0	145.66	45
STRIP LeftWall_917	9	9	24	0.4	0	148.1	45
STRIP LeftWall_917	9	9	24.4	0.4	0	150.55	45
STRIP LeftWall_917	9	9	24.8	0.4	0	153	45
STRIP LeftWall_917	9	9	25.2	0.4	0	155.45	45
STRIP LeftWall_917	9	9	25.6	0.4	0	157.9	45
STRIP LeftWall_917	9	9	26	0.4	0	160.34	45
STRIP LeftWall_917	9	9	26.4	0.4	0	162.79	45
STRIP LeftWall_917	9	9	26.8	0.4	0	165.24	45
STRIP LeftWall_917	9	9	27.2	0.4	0	167.69	45
STRIP LeftWall_917	9	9	27.6	0.4	0	170.14	45
STRIP LeftWall_917	9	9	28	0.4	0	172.58	45
STRIP LeftWall_917	9	9	28.4	0.4	0	175.03	45
STRIP LeftWall_917	9	9	28.8	0.4	0	177.48	45
STRIP LeftWall_917	9	9	29.2	0.4	0	179.93	45
STRIP LeftWall_917	9	9	29.6	0.4	0	182.38	45
STRIP LeftWall_917	10	10	0	0.4	0	1.224	45
STRIP LeftWall_917	10	10	0.4	0.4	0	3.672	45
STRIP LeftWall_917	10	10	0.8	0.4	0	6.12	45
STRIP LeftWall_917	10	10	1.2	0.4	0	8.568	45
STRIP LeftWall_917	10	10	1.6	0.4	0	11.016	45
STRIP LeftWall_917	10	10	2	0.4	0	13.464	45
STRIP LeftWall_917	10	10	2.4	0.4	0	15.912	45
STRIP LeftWall_917	10	10	2.8	0.4	0	18.36	45
STRIP LeftWall_917	10	10	3.2	0.4	0	20.808	45
STRIP LeftWall_917	10	10	3.6	0.4	0	23.256	45
STRIP LeftWall_917	10	10	4	0.4	0	25.704	45
STRIP LeftWall_917	10	10	4.4	0.4	0	28.152	45
STRIP LeftWall_917	10	10	4.8	0.4	0	30.6	45
STRIP LeftWall_917	10	10	5.2	0.4	0	33.048	45
STRIP LeftWall_917	10	10	5.6	0.4	0	35.496	45
STRIP LeftWall_917	10	10	6	0.4	0	37.944	45
STRIP LeftWall_917	10	10	6.4	0.4	0	40.392	45
STRIP LeftWall_917	10	10	6.8	0.4	0	42.84	45
STRIP LeftWall_917	10	10	7.2	0.4	0	45.288	45
STRIP LeftWall_917	10	10	7.6	0.4	0	47.736	45
STRIP LeftWall_917	10	10	8	0.4	0	50.184	45
STRIP LeftWall_917	10	10	8.4	0.4	0	52.632	45
STRIP LeftWall_917	10	10	8.8	0.4	0	55.08	45
STRIP LeftWall_917	10	10	9.2	0.4	0	57.528	45
STRIP LeftWall_917	10	10	9.6	0.4	0	59.976	45
STRIP LeftWall_917	10	10	10	0.4	0	62.424	45
STRIP LeftWall_917	10	10	10.4	0.4	0	64.872	45
STRIP LeftWall_917	10	10	10.8	0.4	0	67.32	45
STRIP LeftWall_917	10	10	11.2	0.4	0	69.768	45
STRIP LeftWall_917	10	10	11.6	0.4	0	72.216	45
STRIP LeftWall_917	10	10	12	0.4	0	74.664	45
STRIP LeftWall_917	10	10	12.4	0.4	0	77.112	45
STRIP LeftWall_917	10	10	12.8	0.4	0	79.56	45
STRIP LeftWall_917	10	10	13.2	0.4	0	82.008	45
STRIP LeftWall_917	10	10	13.6	0.4	0	84.456	45
STRIP LeftWall_917	10	10	14	0.4	0	86.904	45
STRIP LeftWall_917	10	10	14.4	0.4	0	89.352	45
STRIP LeftWall_917	10	10	14.8	0.4	0	91.8	45
STRIP LeftWall_917	10	10	15.2	0.4	0	94.248	45
STRIP LeftWall_917	10	10	15.6	0.4	0	96.696	45
STRIP LeftWall_917	10	10	16	0.4	0	99.144	45
STRIP LeftWall_917	10	10	16.4	0.4	0	101.59	45
STRIP LeftWall_917	10	10	16.8	0.4	0	104.04	45
STRIP LeftWall_917	10	10	17.2	0.4	0	106.49	45
STRIP LeftWall_917	10	10	17.6	0.4	0	108.94	45
STRIP LeftWall_917	10	10	18	0.4	0	111.38	45
STRIP LeftWall_917	10	10	18.4	0.4	0	113.83	45
STRIP LeftWall_917	10	10	18.8	0.4	0	116.28	45
STRIP LeftWall_917	10	10	19.2	0.4	0	118.73	45
STRIP LeftWall_917	10	10	19.6	0.4	0	121.18	45
STRIP LeftWall_917	10	10	20	0.4	0	123.62	45
STRIP LeftWall_917	10	10	20.4	0.4	0	126.07	45
STRIP LeftWall_917	10	10	20.8	0.4	0	128.52	45
STRIP LeftWall_917	10	10	21.2	0.4	0	130.97	45
STRIP LeftWall_917	10	10	21.6	0.4	0	133.42	45
STRIP LeftWall_917	10	10	22	0.4	0	135.86	45
STRIP LeftWall_917	10	10	22.4	0.4	0	138.31	45
STRIP LeftWall_917	10	10	22.8	0.4	0	140.76	45
STRIP LeftWall_917	10	10	23.2	0.4	0	143.21	45
STRIP LeftWall_917	10	10	23.6	0.4	0	145.66	45
STRIP LeftWall_917	10	10	24	0.4	0	148.1	45
STRIP LeftWall_917	10	10	24.4	0.4	0	150.55	45
STRIP LeftWall_917	10	10	24.8	0.4	0	153	45
STRIP LeftWall_917	10	10	25.2	0.4	0	155.45	45
STRIP LeftWall_917	10	10	25.6	0.4	0	157.9	45
STRIP LeftWall_917	10	10	26	0.4	0	160.34	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 10 10 26.4 0.4 0 162.79 45
STRIP LeftWall_917 10 10 26.8 0.4 0 165.24 45
STRIP LeftWall_917 10 10 27.2 0.4 0 167.69 45
STRIP LeftWall_917 10 10 27.6 0.4 0 170.14 45
STRIP LeftWall_917 10 10 28 0.4 0 172.58 45
STRIP LeftWall_917 10 10 28.4 0.4 0 175.03 45
STRIP LeftWall_917 10 10 28.8 0.4 0 177.48 45
STRIP LeftWall_917 10 10 29.2 0.4 0 179.93 45
STRIP LeftWall_917 10 10 29.6 0.4 0 182.38 45
STRIP LeftWall_917 11 11 0 0.4 0 1.224 45
STRIP LeftWall_917 11 11 0.4 0.4 0 3.672 45
STRIP LeftWall_917 11 11 0.8 0.4 0 6.12 45
STRIP LeftWall_917 11 11 1.2 0.4 0 8.568 45
STRIP LeftWall_917 11 11 1.6 0.4 0 11.016 45
STRIP LeftWall_917 11 11 2 0.4 0 13.464 45
STRIP LeftWall_917 11 11 2.4 0.4 0 15.912 45
STRIP LeftWall_917 11 11 2.8 0.4 0 18.36 45
STRIP LeftWall_917 11 11 3.2 0.4 0 20.808 45
STRIP LeftWall_917 11 11 3.6 0.4 0 23.256 45
STRIP LeftWall_917 11 11 4 0.4 0 25.704 45
STRIP LeftWall_917 11 11 4.4 0.4 0 28.152 45
STRIP LeftWall_917 11 11 4.8 0.4 0 30.6 45
STRIP LeftWall_917 11 11 5.2 0.4 0 33.048 45
STRIP LeftWall_917 11 11 5.6 0.4 0 35.496 45
STRIP LeftWall_917 11 11 6 0.4 0 37.944 45
STRIP LeftWall_917 11 11 6.4 0.4 0 40.392 45
STRIP LeftWall_917 11 11 6.8 0.4 0 42.84 45
STRIP LeftWall_917 11 11 7.2 0.4 0 45.288 45
STRIP LeftWall_917 11 11 7.6 0.4 0 47.736 45
STRIP LeftWall_917 11 11 8 0.4 0 50.184 45
STRIP LeftWall_917 11 11 8.4 0.4 0 52.632 45
STRIP LeftWall_917 11 11 8.8 0.4 0 55.08 45
STRIP LeftWall_917 11 11 9.2 0.4 0 57.528 45
STRIP LeftWall_917 11 11 9.6 0.4 0 59.976 45
STRIP LeftWall_917 11 11 10 0.4 0 62.424 45
STRIP LeftWall_917 11 11 10.4 0.4 0 64.872 45
STRIP LeftWall_917 11 11 10.8 0.4 0 67.32 45
STRIP LeftWall_917 11 11 11.2 0.4 0 69.768 45
STRIP LeftWall_917 11 11 11.6 0.4 0 72.216 45
STRIP LeftWall_917 11 11 12 0.4 0 74.664 45
STRIP LeftWall_917 11 11 12.4 0.4 0 77.112 45
STRIP LeftWall_917 11 11 12.8 0.4 0 79.56 45
STRIP LeftWall_917 11 11 13.2 0.4 0 82.008 45
STRIP LeftWall_917 11 11 13.6 0.4 0 84.456 45
STRIP LeftWall_917 11 11 14 0.4 0 86.904 45
STRIP LeftWall_917 11 11 14.4 0.4 0 89.352 45
STRIP LeftWall_917 11 11 14.8 0.4 0 91.8 45
STRIP LeftWall_917 11 11 15.2 0.4 0 94.248 45
STRIP LeftWall_917 11 11 15.6 0.4 0 96.696 45
STRIP LeftWall_917 11 11 16 0.4 0 99.144 45
STRIP LeftWall_917 11 11 16.4 0.4 0 101.59 45
STRIP LeftWall_917 11 11 16.8 0.4 0 104.04 45
STRIP LeftWall_917 11 11 17.2 0.4 0 106.49 45
STRIP LeftWall_917 11 11 17.6 0.4 0 108.94 45
STRIP LeftWall_917 11 11 18 0.4 0 111.38 45
STRIP LeftWall_917 11 11 18.4 0.4 0 113.83 45
STRIP LeftWall_917 11 11 18.8 0.4 0 116.28 45
STRIP LeftWall_917 11 11 19.2 0.4 0 118.73 45
STRIP LeftWall_917 11 11 19.6 0.4 0 121.18 45
STRIP LeftWall_917 11 11 20 0.4 0 123.62 45
STRIP LeftWall_917 11 11 20.4 0.4 0 126.07 45
STRIP LeftWall_917 11 11 20.8 0.4 0 128.52 45
STRIP LeftWall_917 11 11 21.2 0.4 0 130.97 45
STRIP LeftWall_917 11 11 21.6 0.4 0 133.42 45
STRIP LeftWall_917 11 11 22 0.4 0 135.86 45
STRIP LeftWall_917 11 11 22.4 0.4 0 138.31 45
STRIP LeftWall_917 11 11 22.8 0.4 0 140.76 45
STRIP LeftWall_917 11 11 23.2 0.4 0 143.21 45
STRIP LeftWall_917 11 11 23.6 0.4 0 145.66 45
STRIP LeftWall_917 11 11 24 0.4 0 148.1 45
STRIP LeftWall_917 11 11 24.4 0.4 0 150.55 45
STRIP LeftWall_917 11 11 24.8 0.4 0 153 45
STRIP LeftWall_917 11 11 25.2 0.4 0 155.45 45
STRIP LeftWall_917 11 11 25.6 0.4 0 157.9 45
STRIP LeftWall_917 11 11 26 0.4 0 160.34 45
STRIP LeftWall_917 11 11 26.4 0.4 0 162.79 45
STRIP LeftWall_917 11 11 26.8 0.4 0 165.24 45
STRIP LeftWall_917 11 11 27.2 0.4 0 167.69 45
STRIP LeftWall_917 11 11 27.6 0.4 0 170.14 45
STRIP LeftWall_917 11 11 28 0.4 0 172.58 45
STRIP LeftWall_917 11 11 28.4 0.4 0 175.03 45
STRIP LeftWall_917 11 11 28.8 0.4 0 177.48 45
STRIP LeftWall_917 11 11 29.2 0.4 0 179.93 45
STRIP LeftWall_917 11 11 29.6 0.4 0 182.38 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

```
* 7: Defining Steps
STEP Stepn.0Condizioniiniziali_924
CHANGE Coltredestritica_2_905_L_0 U-FRICT=30 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-FRICT=30 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KA=0.333 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KP=4.288 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KA=0.333 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KP=4.288 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KP=5.879 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KP=5.879 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-COHE=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-ADHES=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-COHE=0 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-ADHES=0 LeftWall_917
SETWALL LeftWall_917
GEOM 0 0
SURCHARGE 0 0 0 0
WATER -30 0 -14.5 0 0
ADD LeftWallElement_1092
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.1Fasediscavo1-Fase1_935
SETWALL LeftWall_917
GEOM 0 -4.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.2Fasediscavo1-Fase2_953
SETWALL LeftWall_917
GEOM 0 -4.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -14.5 0 0
ADD Tirantiesistenti+587.00_965
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.3Fasediscavo2-Fase1_973
SETWALL LeftWall_917
GEOM 0 -7.5
SURCHARGE 0 0 0 -6.25
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.4Fasediscavo2-Fase2_991
SETWALL LeftWall_917
GEOM 0 -7.5
SURCHARGE 0 0 0 -6.25
WATER -30 0 -14.5 0 0
ADD Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.5Fasefinalisediscavoes_1011
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.6Primotirantenuovo_1029
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
ADD Tirantinuovit3_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.7Secondotirantenuovo_1049
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



```
WATER -30 0 -14.5 0 0
ADD TirantinuoviT1_3735
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage8Rilasciotirantiesist_3737
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
REMOVE Tirantiesistenti+587.00_965 Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage9Scavodiprogetto_33947
SETWALL LeftWall_917
GEOM 0 -11.2
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage10Sisma_5719
SETWALL LeftWall_917
GEOM 0 -11.2
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
** SUBINCREMENT LOGIC - active since June 2019
SUBINCREMENTS 5
ENDSTEP
```

12.3 Design Assumption : NTC2018: A1+M1+R1 (R3 per tiranti) - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: NTC2018: A1+M1+R1 (R3 per tiranti)
* Time:mercoledì 14 dicembre 2022 10:41:07
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_917 0 -14.5 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_917 -14.5 0 1 0
SOIL 0_R LeftWall_917 -14.5 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Coltredetrifica_2_905_L_0)
*
LDATA Coltredetrifica_2_905_L_0 25 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 18 10 10
PERMEABILITY 1E-05
RESISTANCE 0 30 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 30000 48000
ENDL
*
* Soil Profile (Marnaarenacea_8_906_L_0)
*
LDATA Marnaarenacea_8_906_L_0 -3 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 21 13 10
PERMEABILITY 0.0001
RESISTANCE 100 35 0 0 0
TZDATA LINEAR 20000 0 30 0.5 0
KSCALE 0 0
YOUNG 1E+06 1.6E+06
ENDL

* 5: Defining structural materials
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

* Rebar material: 54 Name=Strands 270 ksi E=200100000 kPa
MATERIAL Strands270ksi_54 2.001E+08
* Concrete material: 1093 Name=C20/25 E=29962000 kPa
MATERIAL C2025_1093 2.9962E+07
* Steel material: 43 Name=Fe510 E=206000200 kPa
MATERIAL Fe510_43 2.06E+08

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later
BEAM LeftWallElement_1092 LeftWall_917 -14.5 0 Fe510_43 0.080792 0.018495 4.3946E-05 1.4241 00 00 0

* 6.2: Supports
WIRE Tirantiesistenti+587.00_965 LeftWall_917 -4 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+584.00_1003 LeftWall_917 -7 Strands270ksi_54 1.9841E-05 62.5 15 0 0
WIRE TirantinuoviT3_3643 LeftWall_917 -9 Strands270ksi_54 1.9501E-05 62.5 15 0 0
WIRE TirantinuoviT1_3735 LeftWall_917 -2 Strands270ksi_54 1.611E-05 62.5 15 0 0

* 6.3: Strips

* (slope contribution)
STRIP LeftWall_917 1 1 0 0.4 0 1.224 45
STRIP LeftWall_917 1 1 0.4 0.4 0 3.672 45
STRIP LeftWall_917 1 1 0.8 0.4 0 6.12 45
STRIP LeftWall_917 1 1 1.2 0.4 0 8.568 45
STRIP LeftWall_917 1 1 1.6 0.4 0 11.016 45
STRIP LeftWall_917 1 1 2 0.4 0 13.464 45
STRIP LeftWall_917 1 1 2.4 0.4 0 15.912 45
STRIP LeftWall_917 1 1 2.8 0.4 0 18.36 45
STRIP LeftWall_917 1 1 3.2 0.4 0 20.808 45
STRIP LeftWall_917 1 1 3.6 0.4 0 23.256 45
STRIP LeftWall_917 1 1 4 0.4 0 25.704 45
STRIP LeftWall_917 1 1 4.4 0.4 0 28.152 45
STRIP LeftWall_917 1 1 4.8 0.4 0 30.6 45
STRIP LeftWall_917 1 1 5.2 0.4 0 33.048 45
STRIP LeftWall_917 1 1 5.6 0.4 0 35.496 45
STRIP LeftWall_917 1 1 6 0.4 0 37.944 45
STRIP LeftWall_917 1 1 6.4 0.4 0 40.392 45
STRIP LeftWall_917 1 1 6.8 0.4 0 42.84 45
STRIP LeftWall_917 1 1 7.2 0.4 0 45.288 45
STRIP LeftWall_917 1 1 7.6 0.4 0 47.736 45
STRIP LeftWall_917 1 1 8 0.4 0 50.184 45
STRIP LeftWall_917 1 1 8.4 0.4 0 52.632 45
STRIP LeftWall_917 1 1 8.8 0.4 0 55.08 45
STRIP LeftWall_917 1 1 9.2 0.4 0 57.528 45
STRIP LeftWall_917 1 1 9.6 0.4 0 59.976 45
STRIP LeftWall_917 1 1 10 0.4 0 62.424 45
STRIP LeftWall_917 1 1 10.4 0.4 0 64.872 45
STRIP LeftWall_917 1 1 10.8 0.4 0 67.32 45
STRIP LeftWall_917 1 1 11.2 0.4 0 69.768 45
STRIP LeftWall_917 1 1 11.6 0.4 0 72.216 45
STRIP LeftWall_917 1 1 12 0.4 0 74.664 45
STRIP LeftWall_917 1 1 12.4 0.4 0 77.112 45
STRIP LeftWall_917 1 1 12.8 0.4 0 79.56 45
STRIP LeftWall_917 1 1 13.2 0.4 0 82.008 45
STRIP LeftWall_917 1 1 13.6 0.4 0 84.456 45
STRIP LeftWall_917 1 1 14 0.4 0 86.904 45
STRIP LeftWall_917 1 1 14.4 0.4 0 89.352 45
STRIP LeftWall_917 1 1 14.8 0.4 0 91.8 45
STRIP LeftWall_917 1 1 15.2 0.4 0 94.248 45
STRIP LeftWall_917 1 1 15.6 0.4 0 96.696 45
STRIP LeftWall_917 1 1 16 0.4 0 99.144 45
STRIP LeftWall_917 1 1 16.4 0.4 0 101.59 45
STRIP LeftWall_917 1 1 16.8 0.4 0 104.04 45
STRIP LeftWall_917 1 1 17.2 0.4 0 106.49 45
STRIP LeftWall_917 1 1 17.6 0.4 0 108.94 45
STRIP LeftWall_917 1 1 18 0.4 0 111.38 45
STRIP LeftWall_917 1 1 18.4 0.4 0 113.83 45
STRIP LeftWall_917 1 1 18.8 0.4 0 116.28 45
STRIP LeftWall_917 1 1 19.2 0.4 0 118.73 45
STRIP LeftWall_917 1 1 19.6 0.4 0 121.18 45
STRIP LeftWall_917 1 1 20 0.4 0 123.62 45
STRIP LeftWall_917 1 1 20.4 0.4 0 126.07 45
STRIP LeftWall_917 1 1 20.8 0.4 0 128.52 45
STRIP LeftWall_917 1 1 21.2 0.4 0 130.97 45
STRIP LeftWall_917 1 1 21.6 0.4 0 133.42 45
STRIP LeftWall_917 1 1 22 0.4 0 135.86 45
STRIP LeftWall_917 1 1 22.4 0.4 0 138.31 45
STRIP LeftWall_917 1 1 22.8 0.4 0 140.76 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 1 1 23.2 0.4 0 143.21 45
STRIP LeftWall_917 1 1 23.6 0.4 0 145.66 45
STRIP LeftWall_917 1 1 24 0.4 0 148.1 45
STRIP LeftWall_917 1 1 24.4 0.4 0 150.55 45
STRIP LeftWall_917 1 1 24.8 0.4 0 153 45
STRIP LeftWall_917 1 1 25.2 0.4 0 155.45 45
STRIP LeftWall_917 1 1 25.6 0.4 0 157.9 45
STRIP LeftWall_917 1 1 26 0.4 0 160.34 45
STRIP LeftWall_917 1 1 26.4 0.4 0 162.79 45
STRIP LeftWall_917 1 1 26.8 0.4 0 165.24 45
STRIP LeftWall_917 1 1 27.2 0.4 0 167.69 45
STRIP LeftWall_917 1 1 27.6 0.4 0 170.14 45
STRIP LeftWall_917 1 1 28 0.4 0 172.58 45
STRIP LeftWall_917 1 1 28.4 0.4 0 175.03 45
STRIP LeftWall_917 1 1 28.8 0.4 0 177.48 45
STRIP LeftWall_917 1 1 29.2 0.4 0 179.93 45
STRIP LeftWall_917 1 1 29.6 0.4 0 182.38 45
STRIP LeftWall_917 2 2 0 0.4 0 1.224 45
STRIP LeftWall_917 2 2 0.4 0.4 0 3.672 45
STRIP LeftWall_917 2 2 0.8 0.4 0 6.12 45
STRIP LeftWall_917 2 2 1.2 0.4 0 8.568 45
STRIP LeftWall_917 2 2 1.6 0.4 0 11.016 45
STRIP LeftWall_917 2 2 2 0.4 0 13.464 45
STRIP LeftWall_917 2 2 2.4 0.4 0 15.912 45
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STRIP LeftWall_917 2 2 3.2 0.4 0 20.808 45
STRIP LeftWall_917 2 2 3.6 0.4 0 23.256 45
STRIP LeftWall_917 2 2 4 0.4 0 25.704 45
STRIP LeftWall_917 2 2 4.4 0.4 0 28.152 45
STRIP LeftWall_917 2 2 4.8 0.4 0 30.6 45
STRIP LeftWall_917 2 2 5.2 0.4 0 33.048 45
STRIP LeftWall_917 2 2 5.6 0.4 0 35.496 45
STRIP LeftWall_917 2 2 6 0.4 0 37.944 45
STRIP LeftWall_917 2 2 6.4 0.4 0 40.392 45
STRIP LeftWall_917 2 2 6.8 0.4 0 42.84 45
STRIP LeftWall_917 2 2 7.2 0.4 0 45.288 45
STRIP LeftWall_917 2 2 7.6 0.4 0 47.736 45
STRIP LeftWall_917 2 2 8 0.4 0 50.184 45
STRIP LeftWall_917 2 2 8.4 0.4 0 52.632 45
STRIP LeftWall_917 2 2 8.8 0.4 0 55.08 45
STRIP LeftWall_917 2 2 9.2 0.4 0 57.528 45
STRIP LeftWall_917 2 2 9.6 0.4 0 59.976 45
STRIP LeftWall_917 2 2 10 0.4 0 62.424 45
STRIP LeftWall_917 2 2 10.4 0.4 0 64.872 45
STRIP LeftWall_917 2 2 10.8 0.4 0 67.32 45
STRIP LeftWall_917 2 2 11.2 0.4 0 69.768 45
STRIP LeftWall_917 2 2 11.6 0.4 0 72.216 45
STRIP LeftWall_917 2 2 12 0.4 0 74.664 45
STRIP LeftWall_917 2 2 12.4 0.4 0 77.112 45
STRIP LeftWall_917 2 2 12.8 0.4 0 79.56 45
STRIP LeftWall_917 2 2 13.2 0.4 0 82.008 45
STRIP LeftWall_917 2 2 13.6 0.4 0 84.456 45
STRIP LeftWall_917 2 2 14 0.4 0 86.904 45
STRIP LeftWall_917 2 2 14.4 0.4 0 89.352 45
STRIP LeftWall_917 2 2 14.8 0.4 0 91.8 45
STRIP LeftWall_917 2 2 15.2 0.4 0 94.248 45
STRIP LeftWall_917 2 2 15.6 0.4 0 96.696 45
STRIP LeftWall_917 2 2 16 0.4 0 99.144 45
STRIP LeftWall_917 2 2 16.4 0.4 0 101.59 45
STRIP LeftWall_917 2 2 16.8 0.4 0 104.04 45
STRIP LeftWall_917 2 2 17.2 0.4 0 106.49 45
STRIP LeftWall_917 2 2 17.6 0.4 0 108.94 45
STRIP LeftWall_917 2 2 18 0.4 0 111.38 45
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STRIP LeftWall_917 2 2 19.2 0.4 0 118.73 45
STRIP LeftWall_917 2 2 19.6 0.4 0 121.18 45
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STRIP LeftWall_917 2 2 20.4 0.4 0 126.07 45
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STRIP LeftWall_917 2 2 21.6 0.4 0 133.42 45
STRIP LeftWall_917 2 2 22 0.4 0 135.86 45
STRIP LeftWall_917 2 2 22.4 0.4 0 138.31 45
STRIP LeftWall_917 2 2 22.8 0.4 0 140.76 45
STRIP LeftWall_917 2 2 23.2 0.4 0 143.21 45
STRIP LeftWall_917 2 2 23.6 0.4 0 145.66 45
STRIP LeftWall_917 2 2 24 0.4 0 148.1 45
STRIP LeftWall_917 2 2 24.4 0.4 0 150.55 45
STRIP LeftWall_917 2 2 24.8 0.4 0 153 45
STRIP LeftWall_917 2 2 25.2 0.4 0 155.45 45
STRIP LeftWall_917 2 2 25.6 0.4 0 157.9 45
STRIP LeftWall_917 2 2 26 0.4 0 160.34 45
STRIP LeftWall_917 2 2 26.4 0.4 0 162.79 45
STRIP LeftWall_917 2 2 26.8 0.4 0 165.24 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 2 2 27.2 0.4 0 167.69 45
STRIP LeftWall_917 2 2 27.6 0.4 0 170.14 45
STRIP LeftWall_917 2 2 28 0.4 0 172.58 45
STRIP LeftWall_917 2 2 28.4 0.4 0 175.03 45
STRIP LeftWall_917 2 2 28.8 0.4 0 177.48 45
STRIP LeftWall_917 2 2 29.2 0.4 0 179.93 45
STRIP LeftWall_917 2 2 29.6 0.4 0 182.38 45
STRIP LeftWall_917 3 3 0 0.4 0 1.224 45
STRIP LeftWall_917 3 3 0.4 0.4 0 3.672 45
STRIP LeftWall_917 3 3 0.8 0.4 0 6.12 45
STRIP LeftWall_917 3 3 1.2 0.4 0 8.568 45
STRIP LeftWall_917 3 3 1.6 0.4 0 11.016 45
STRIP LeftWall_917 3 3 2 0.4 0 13.464 45
STRIP LeftWall_917 3 3 2.4 0.4 0 15.912 45
STRIP LeftWall_917 3 3 2.8 0.4 0 18.36 45
STRIP LeftWall_917 3 3 3.2 0.4 0 20.808 45
STRIP LeftWall_917 3 3 3.6 0.4 0 23.256 45
STRIP LeftWall_917 3 3 4 0.4 0 25.704 45
STRIP LeftWall_917 3 3 4.4 0.4 0 28.152 45
STRIP LeftWall_917 3 3 4.8 0.4 0 30.6 45
STRIP LeftWall_917 3 3 5.2 0.4 0 33.048 45
STRIP LeftWall_917 3 3 5.6 0.4 0 35.496 45
STRIP LeftWall_917 3 3 6 0.4 0 37.944 45
STRIP LeftWall_917 3 3 6.4 0.4 0 40.392 45
STRIP LeftWall_917 3 3 6.8 0.4 0 42.84 45
STRIP LeftWall_917 3 3 7.2 0.4 0 45.288 45
STRIP LeftWall_917 3 3 7.6 0.4 0 47.736 45
STRIP LeftWall_917 3 3 8 0.4 0 50.184 45
STRIP LeftWall_917 3 3 8.4 0.4 0 52.632 45
STRIP LeftWall_917 3 3 8.8 0.4 0 55.08 45
STRIP LeftWall_917 3 3 9.2 0.4 0 57.528 45
STRIP LeftWall_917 3 3 9.6 0.4 0 59.976 45
STRIP LeftWall_917 3 3 10 0.4 0 62.424 45
STRIP LeftWall_917 3 3 10.4 0.4 0 64.872 45
STRIP LeftWall_917 3 3 10.8 0.4 0 67.32 45
STRIP LeftWall_917 3 3 11.2 0.4 0 69.768 45
STRIP LeftWall_917 3 3 11.6 0.4 0 72.216 45
STRIP LeftWall_917 3 3 12 0.4 0 74.664 45
STRIP LeftWall_917 3 3 12.4 0.4 0 77.112 45
STRIP LeftWall_917 3 3 12.8 0.4 0 79.56 45
STRIP LeftWall_917 3 3 13.2 0.4 0 82.008 45
STRIP LeftWall_917 3 3 13.6 0.4 0 84.456 45
STRIP LeftWall_917 3 3 14 0.4 0 86.904 45
STRIP LeftWall_917 3 3 14.4 0.4 0 89.352 45
STRIP LeftWall_917 3 3 14.8 0.4 0 91.8 45
STRIP LeftWall_917 3 3 15.2 0.4 0 94.248 45
STRIP LeftWall_917 3 3 15.6 0.4 0 96.696 45
STRIP LeftWall_917 3 3 16 0.4 0 99.144 45
STRIP LeftWall_917 3 3 16.4 0.4 0 101.59 45
STRIP LeftWall_917 3 3 16.8 0.4 0 104.04 45
STRIP LeftWall_917 3 3 17.2 0.4 0 106.49 45
STRIP LeftWall_917 3 3 17.6 0.4 0 108.94 45
STRIP LeftWall_917 3 3 18 0.4 0 111.38 45
STRIP LeftWall_917 3 3 18.4 0.4 0 113.83 45
STRIP LeftWall_917 3 3 18.8 0.4 0 116.28 45
STRIP LeftWall_917 3 3 19.2 0.4 0 118.73 45
STRIP LeftWall_917 3 3 19.6 0.4 0 121.18 45
STRIP LeftWall_917 3 3 20 0.4 0 123.62 45
STRIP LeftWall_917 3 3 20.4 0.4 0 126.07 45
STRIP LeftWall_917 3 3 20.8 0.4 0 128.52 45
STRIP LeftWall_917 3 3 21.2 0.4 0 130.97 45
STRIP LeftWall_917 3 3 21.6 0.4 0 133.42 45
STRIP LeftWall_917 3 3 22 0.4 0 135.86 45
STRIP LeftWall_917 3 3 22.4 0.4 0 138.31 45
STRIP LeftWall_917 3 3 22.8 0.4 0 140.76 45
STRIP LeftWall_917 3 3 23.2 0.4 0 143.21 45
STRIP LeftWall_917 3 3 23.6 0.4 0 145.66 45
STRIP LeftWall_917 3 3 24 0.4 0 148.1 45
STRIP LeftWall_917 3 3 24.4 0.4 0 150.55 45
STRIP LeftWall_917 3 3 24.8 0.4 0 153 45
STRIP LeftWall_917 3 3 25.2 0.4 0 155.45 45
STRIP LeftWall_917 3 3 25.6 0.4 0 157.9 45
STRIP LeftWall_917 3 3 26 0.4 0 160.34 45
STRIP LeftWall_917 3 3 26.4 0.4 0 162.79 45
STRIP LeftWall_917 3 3 26.8 0.4 0 165.24 45
STRIP LeftWall_917 3 3 27.2 0.4 0 167.69 45
STRIP LeftWall_917 3 3 27.6 0.4 0 170.14 45
STRIP LeftWall_917 3 3 28 0.4 0 172.58 45
STRIP LeftWall_917 3 3 28.4 0.4 0 175.03 45
STRIP LeftWall_917 3 3 28.8 0.4 0 177.48 45
STRIP LeftWall_917 3 3 29.2 0.4 0 179.93 45
STRIP LeftWall_917 3 3 29.6 0.4 0 182.38 45
STRIP LeftWall_917 4 4 0 0.4 0 1.224 45
STRIP LeftWall_917 4 4 0.4 0.4 0 3.672 45
STRIP LeftWall_917 4 4 0.8 0.4 0 6.12 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917	4	4	1.2	0.4	0	8.568	45
STRIP LeftWall_917	4	4	1.6	0.4	0	11.016	45
STRIP LeftWall_917	4	4	2.0	0.4	0	13.464	45
STRIP LeftWall_917	4	4	2.4	0.4	0	15.912	45
STRIP LeftWall_917	4	4	2.8	0.4	0	18.36	45
STRIP LeftWall_917	4	4	3.2	0.4	0	20.808	45
STRIP LeftWall_917	4	4	3.6	0.4	0	23.256	45
STRIP LeftWall_917	4	4	4.0	0.4	0	25.704	45
STRIP LeftWall_917	4	4	4.4	0.4	0	28.152	45
STRIP LeftWall_917	4	4	4.8	0.4	0	30.6	45
STRIP LeftWall_917	4	4	5.2	0.4	0	33.048	45
STRIP LeftWall_917	4	4	5.6	0.4	0	35.496	45
STRIP LeftWall_917	4	4	6.0	0.4	0	37.944	45
STRIP LeftWall_917	4	4	6.4	0.4	0	40.392	45
STRIP LeftWall_917	4	4	6.8	0.4	0	42.84	45
STRIP LeftWall_917	4	4	7.2	0.4	0	45.288	45
STRIP LeftWall_917	4	4	7.6	0.4	0	47.736	45
STRIP LeftWall_917	4	4	8.0	0.4	0	50.184	45
STRIP LeftWall_917	4	4	8.4	0.4	0	52.632	45
STRIP LeftWall_917	4	4	8.8	0.4	0	55.08	45
STRIP LeftWall_917	4	4	9.2	0.4	0	57.528	45
STRIP LeftWall_917	4	4	9.6	0.4	0	59.976	45
STRIP LeftWall_917	4	4	10.0	0.4	0	62.424	45
STRIP LeftWall_917	4	4	10.4	0.4	0	64.872	45
STRIP LeftWall_917	4	4	10.8	0.4	0	67.32	45
STRIP LeftWall_917	4	4	11.2	0.4	0	69.768	45
STRIP LeftWall_917	4	4	11.6	0.4	0	72.216	45
STRIP LeftWall_917	4	4	12.0	0.4	0	74.664	45
STRIP LeftWall_917	4	4	12.4	0.4	0	77.112	45
STRIP LeftWall_917	4	4	12.8	0.4	0	79.56	45
STRIP LeftWall_917	4	4	13.2	0.4	0	82.008	45
STRIP LeftWall_917	4	4	13.6	0.4	0	84.456	45
STRIP LeftWall_917	4	4	14.0	0.4	0	86.904	45
STRIP LeftWall_917	4	4	14.4	0.4	0	89.352	45
STRIP LeftWall_917	4	4	14.8	0.4	0	91.8	45
STRIP LeftWall_917	4	4	15.2	0.4	0	94.248	45
STRIP LeftWall_917	4	4	15.6	0.4	0	96.696	45
STRIP LeftWall_917	4	4	16.0	0.4	0	99.144	45
STRIP LeftWall_917	4	4	16.4	0.4	0	101.59	45
STRIP LeftWall_917	4	4	16.8	0.4	0	104.04	45
STRIP LeftWall_917	4	4	17.2	0.4	0	106.49	45
STRIP LeftWall_917	4	4	17.6	0.4	0	108.94	45
STRIP LeftWall_917	4	4	18.0	0.4	0	111.38	45
STRIP LeftWall_917	4	4	18.4	0.4	0	113.83	45
STRIP LeftWall_917	4	4	18.8	0.4	0	116.28	45
STRIP LeftWall_917	4	4	19.2	0.4	0	118.73	45
STRIP LeftWall_917	4	4	19.6	0.4	0	121.18	45
STRIP LeftWall_917	4	4	20.0	0.4	0	123.62	45
STRIP LeftWall_917	4	4	20.4	0.4	0	126.07	45
STRIP LeftWall_917	4	4	20.8	0.4	0	128.52	45
STRIP LeftWall_917	4	4	21.2	0.4	0	130.97	45
STRIP LeftWall_917	4	4	21.6	0.4	0	133.42	45
STRIP LeftWall_917	4	4	22.0	0.4	0	135.86	45
STRIP LeftWall_917	4	4	22.4	0.4	0	138.31	45
STRIP LeftWall_917	4	4	22.8	0.4	0	140.76	45
STRIP LeftWall_917	4	4	23.2	0.4	0	143.21	45
STRIP LeftWall_917	4	4	23.6	0.4	0	145.66	45
STRIP LeftWall_917	4	4	24.0	0.4	0	148.1	45
STRIP LeftWall_917	4	4	24.4	0.4	0	150.55	45
STRIP LeftWall_917	4	4	24.8	0.4	0	153	45
STRIP LeftWall_917	4	4	25.2	0.4	0	155.45	45
STRIP LeftWall_917	4	4	25.6	0.4	0	157.9	45
STRIP LeftWall_917	4	4	26.0	0.4	0	160.34	45
STRIP LeftWall_917	4	4	26.4	0.4	0	162.79	45
STRIP LeftWall_917	4	4	26.8	0.4	0	165.24	45
STRIP LeftWall_917	4	4	27.2	0.4	0	167.69	45
STRIP LeftWall_917	4	4	27.6	0.4	0	170.14	45
STRIP LeftWall_917	4	4	28.0	0.4	0	172.58	45
STRIP LeftWall_917	4	4	28.4	0.4	0	175.03	45
STRIP LeftWall_917	4	4	28.8	0.4	0	177.48	45
STRIP LeftWall_917	4	4	29.2	0.4	0	179.93	45
STRIP LeftWall_917	4	4	29.6	0.4	0	182.38	45
STRIP LeftWall_917	5	5	0.0	0.4	0	1.224	45
STRIP LeftWall_917	5	5	0.4	0.4	0	3.672	45
STRIP LeftWall_917	5	5	0.8	0.4	0	6.12	45
STRIP LeftWall_917	5	5	1.2	0.4	0	8.568	45
STRIP LeftWall_917	5	5	1.6	0.4	0	11.016	45
STRIP LeftWall_917	5	5	2.0	0.4	0	13.464	45
STRIP LeftWall_917	5	5	2.4	0.4	0	15.912	45
STRIP LeftWall_917	5	5	2.8	0.4	0	18.36	45
STRIP LeftWall_917	5	5	3.2	0.4	0	20.808	45
STRIP LeftWall_917	5	5	3.6	0.4	0	23.256	45
STRIP LeftWall_917	5	5	4.0	0.4	0	25.704	45
STRIP LeftWall_917	5	5	4.4	0.4	0	28.152	45
STRIP LeftWall_917	5	5	4.8	0.4	0	30.6	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 5 5 5.2 0.4 0 33.048 45
STRIP LeftWall_917 5 5 5.6 0.4 0 35.496 45
STRIP LeftWall_917 5 5 6.0 0.4 0 37.944 45
STRIP LeftWall_917 5 5 6.4 0.4 0 40.392 45
STRIP LeftWall_917 5 5 6.8 0.4 0 42.84 45
STRIP LeftWall_917 5 5 7.2 0.4 0 45.288 45
STRIP LeftWall_917 5 5 7.6 0.4 0 47.736 45
STRIP LeftWall_917 5 5 8.0 0.4 0 50.184 45
STRIP LeftWall_917 5 5 8.4 0.4 0 52.632 45
STRIP LeftWall_917 5 5 8.8 0.4 0 55.08 45
STRIP LeftWall_917 5 5 9.2 0.4 0 57.528 45
STRIP LeftWall_917 5 5 9.6 0.4 0 59.976 45
STRIP LeftWall_917 5 5 10.0 0.4 0 62.424 45
STRIP LeftWall_917 5 5 10.4 0.4 0 64.872 45
STRIP LeftWall_917 5 5 10.8 0.4 0 67.32 45
STRIP LeftWall_917 5 5 11.2 0.4 0 69.768 45
STRIP LeftWall_917 5 5 11.6 0.4 0 72.216 45
STRIP LeftWall_917 5 5 12.0 0.4 0 74.664 45
STRIP LeftWall_917 5 5 12.4 0.4 0 77.112 45
STRIP LeftWall_917 5 5 12.8 0.4 0 79.56 45
STRIP LeftWall_917 5 5 13.2 0.4 0 82.008 45
STRIP LeftWall_917 5 5 13.6 0.4 0 84.456 45
STRIP LeftWall_917 5 5 14.0 0.4 0 86.904 45
STRIP LeftWall_917 5 5 14.4 0.4 0 89.352 45
STRIP LeftWall_917 5 5 14.8 0.4 0 91.8 45
STRIP LeftWall_917 5 5 15.2 0.4 0 94.248 45
STRIP LeftWall_917 5 5 15.6 0.4 0 96.696 45
STRIP LeftWall_917 5 5 16.0 0.4 0 99.144 45
STRIP LeftWall_917 5 5 16.4 0.4 0 101.59 45
STRIP LeftWall_917 5 5 16.8 0.4 0 104.04 45
STRIP LeftWall_917 5 5 17.2 0.4 0 106.49 45
STRIP LeftWall_917 5 5 17.6 0.4 0 108.94 45
STRIP LeftWall_917 5 5 18.0 0.4 0 111.38 45
STRIP LeftWall_917 5 5 18.4 0.4 0 113.83 45
STRIP LeftWall_917 5 5 18.8 0.4 0 116.28 45
STRIP LeftWall_917 5 5 19.2 0.4 0 118.73 45
STRIP LeftWall_917 5 5 19.6 0.4 0 121.18 45
STRIP LeftWall_917 5 5 20.0 0.4 0 123.62 45
STRIP LeftWall_917 5 5 20.4 0.4 0 126.07 45
STRIP LeftWall_917 5 5 20.8 0.4 0 128.52 45
STRIP LeftWall_917 5 5 21.2 0.4 0 130.97 45
STRIP LeftWall_917 5 5 21.6 0.4 0 133.42 45
STRIP LeftWall_917 5 5 22.0 0.4 0 135.86 45
STRIP LeftWall_917 5 5 22.4 0.4 0 138.31 45
STRIP LeftWall_917 5 5 22.8 0.4 0 140.76 45
STRIP LeftWall_917 5 5 23.2 0.4 0 143.21 45
STRIP LeftWall_917 5 5 23.6 0.4 0 145.66 45
STRIP LeftWall_917 5 5 24.0 0.4 0 148.1 45
STRIP LeftWall_917 5 5 24.4 0.4 0 150.55 45
STRIP LeftWall_917 5 5 24.8 0.4 0 153 45
STRIP LeftWall_917 5 5 25.2 0.4 0 155.45 45
STRIP LeftWall_917 5 5 25.6 0.4 0 157.9 45
STRIP LeftWall_917 5 5 26.0 0.4 0 160.34 45
STRIP LeftWall_917 5 5 26.4 0.4 0 162.79 45
STRIP LeftWall_917 5 5 26.8 0.4 0 165.24 45
STRIP LeftWall_917 5 5 27.2 0.4 0 167.69 45
STRIP LeftWall_917 5 5 27.6 0.4 0 170.14 45
STRIP LeftWall_917 5 5 28.0 0.4 0 172.58 45
STRIP LeftWall_917 5 5 28.4 0.4 0 175.03 45
STRIP LeftWall_917 5 5 28.8 0.4 0 177.48 45
STRIP LeftWall_917 5 5 29.2 0.4 0 179.93 45
STRIP LeftWall_917 5 5 29.6 0.4 0 182.38 45
STRIP LeftWall_917 6 0 0.4 0 1.224 45
STRIP LeftWall_917 6 6 0.4 0.4 0 3.672 45
STRIP LeftWall_917 6 6 0.8 0.4 0 6.12 45
STRIP LeftWall_917 6 6 1.2 0.4 0 8.568 45
STRIP LeftWall_917 6 6 1.6 0.4 0 11.016 45
STRIP LeftWall_917 6 6 2.0 0.4 0 13.464 45
STRIP LeftWall_917 6 6 2.4 0.4 0 15.912 45
STRIP LeftWall_917 6 6 2.8 0.4 0 18.36 45
STRIP LeftWall_917 6 6 3.2 0.4 0 20.808 45
STRIP LeftWall_917 6 6 3.6 0.4 0 23.256 45
STRIP LeftWall_917 6 6 4.0 0.4 0 25.704 45
STRIP LeftWall_917 6 6 4.4 0.4 0 28.152 45
STRIP LeftWall_917 6 6 4.8 0.4 0 30.6 45
STRIP LeftWall_917 6 6 5.2 0.4 0 33.048 45
STRIP LeftWall_917 6 6 5.6 0.4 0 35.496 45
STRIP LeftWall_917 6 6 6.0 0.4 0 37.944 45
STRIP LeftWall_917 6 6 6.4 0.4 0 40.392 45
STRIP LeftWall_917 6 6 6.8 0.4 0 42.84 45
STRIP LeftWall_917 6 6 7.2 0.4 0 45.288 45
STRIP LeftWall_917 6 6 7.6 0.4 0 47.736 45
STRIP LeftWall_917 6 6 8.0 0.4 0 50.184 45
STRIP LeftWall_917 6 6 8.4 0.4 0 52.632 45
STRIP LeftWall_917 6 6 8.8 0.4 0 55.08 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	6	6	9.2	0.4	0	57.528	45
STRIP LeftWall_917	6	6	9.6	0.4	0	59.976	45
STRIP LeftWall_917	6	6	10	0.4	0	62.424	45
STRIP LeftWall_917	6	6	10.4	0.4	0	64.872	45
STRIP LeftWall_917	6	6	10.8	0.4	0	67.32	45
STRIP LeftWall_917	6	6	11.2	0.4	0	69.768	45
STRIP LeftWall_917	6	6	11.6	0.4	0	72.216	45
STRIP LeftWall_917	6	6	12	0.4	0	74.664	45
STRIP LeftWall_917	6	6	12.4	0.4	0	77.112	45
STRIP LeftWall_917	6	6	12.8	0.4	0	79.56	45
STRIP LeftWall_917	6	6	13.2	0.4	0	82.008	45
STRIP LeftWall_917	6	6	13.6	0.4	0	84.456	45
STRIP LeftWall_917	6	6	14	0.4	0	86.904	45
STRIP LeftWall_917	6	6	14.4	0.4	0	89.352	45
STRIP LeftWall_917	6	6	14.8	0.4	0	91.8	45
STRIP LeftWall_917	6	6	15.2	0.4	0	94.248	45
STRIP LeftWall_917	6	6	15.6	0.4	0	96.696	45
STRIP LeftWall_917	6	6	16	0.4	0	99.144	45
STRIP LeftWall_917	6	6	16.4	0.4	0	101.592	45
STRIP LeftWall_917	6	6	16.8	0.4	0	104.04	45
STRIP LeftWall_917	6	6	17.2	0.4	0	106.488	45
STRIP LeftWall_917	6	6	17.6	0.4	0	108.936	45
STRIP LeftWall_917	6	6	18	0.4	0	111.384	45
STRIP LeftWall_917	6	6	18.4	0.4	0	113.832	45
STRIP LeftWall_917	6	6	18.8	0.4	0	116.28	45
STRIP LeftWall_917	6	6	19.2	0.4	0	118.728	45
STRIP LeftWall_917	6	6	19.6	0.4	0	121.176	45
STRIP LeftWall_917	6	6	20	0.4	0	123.624	45
STRIP LeftWall_917	6	6	20.4	0.4	0	126.072	45
STRIP LeftWall_917	6	6	20.8	0.4	0	128.52	45
STRIP LeftWall_917	6	6	21.2	0.4	0	130.968	45
STRIP LeftWall_917	6	6	21.6	0.4	0	133.416	45
STRIP LeftWall_917	6	6	22	0.4	0	135.864	45
STRIP LeftWall_917	6	6	22.4	0.4	0	138.312	45
STRIP LeftWall_917	6	6	22.8	0.4	0	140.76	45
STRIP LeftWall_917	6	6	23.2	0.4	0	143.208	45
STRIP LeftWall_917	6	6	23.6	0.4	0	145.656	45
STRIP LeftWall_917	6	6	24	0.4	0	148.104	45
STRIP LeftWall_917	6	6	24.4	0.4	0	150.552	45
STRIP LeftWall_917	6	6	24.8	0.4	0	153	45
STRIP LeftWall_917	6	6	25.2	0.4	0	155.448	45
STRIP LeftWall_917	6	6	25.6	0.4	0	157.896	45
STRIP LeftWall_917	6	6	26	0.4	0	160.344	45
STRIP LeftWall_917	6	6	26.4	0.4	0	162.792	45
STRIP LeftWall_917	6	6	26.8	0.4	0	165.24	45
STRIP LeftWall_917	6	6	27.2	0.4	0	167.688	45
STRIP LeftWall_917	6	6	27.6	0.4	0	170.136	45
STRIP LeftWall_917	6	6	28	0.4	0	172.584	45
STRIP LeftWall_917	6	6	28.4	0.4	0	175.032	45
STRIP LeftWall_917	6	6	28.8	0.4	0	177.48	45
STRIP LeftWall_917	6	6	29.2	0.4	0	179.928	45
STRIP LeftWall_917	6	6	29.6	0.4	0	182.376	45
STRIP LeftWall_917	7	7	0	0.4	0	1.224	45
STRIP LeftWall_917	7	7	0.4	0.4	0	3.672	45
STRIP LeftWall_917	7	7	0.8	0.4	0	6.12	45
STRIP LeftWall_917	7	7	1.2	0.4	0	8.568	45
STRIP LeftWall_917	7	7	1.6	0.4	0	11.016	45
STRIP LeftWall_917	7	7	2	0.4	0	13.464	45
STRIP LeftWall_917	7	7	2.4	0.4	0	15.912	45
STRIP LeftWall_917	7	7	2.8	0.4	0	18.36	45
STRIP LeftWall_917	7	7	3.2	0.4	0	20.808	45
STRIP LeftWall_917	7	7	3.6	0.4	0	23.256	45
STRIP LeftWall_917	7	7	4	0.4	0	25.704	45
STRIP LeftWall_917	7	7	4.4	0.4	0	28.152	45
STRIP LeftWall_917	7	7	4.8	0.4	0	30.6	45
STRIP LeftWall_917	7	7	5.2	0.4	0	33.048	45
STRIP LeftWall_917	7	7	5.6	0.4	0	35.496	45
STRIP LeftWall_917	7	7	6	0.4	0	37.944	45
STRIP LeftWall_917	7	7	6.4	0.4	0	40.392	45
STRIP LeftWall_917	7	7	6.8	0.4	0	42.84	45
STRIP LeftWall_917	7	7	7.2	0.4	0	45.288	45
STRIP LeftWall_917	7	7	7.6	0.4	0	47.736	45
STRIP LeftWall_917	7	7	8	0.4	0	50.184	45
STRIP LeftWall_917	7	7	8.4	0.4	0	52.632	45
STRIP LeftWall_917	7	7	8.8	0.4	0	55.08	45
STRIP LeftWall_917	7	7	9.2	0.4	0	57.528	45
STRIP LeftWall_917	7	7	9.6	0.4	0	59.976	45
STRIP LeftWall_917	7	7	10	0.4	0	62.424	45
STRIP LeftWall_917	7	7	10.4	0.4	0	64.872	45
STRIP LeftWall_917	7	7	10.8	0.4	0	67.32	45
STRIP LeftWall_917	7	7	11.2	0.4	0	69.768	45
STRIP LeftWall_917	7	7	11.6	0.4	0	72.216	45
STRIP LeftWall_917	7	7	12	0.4	0	74.664	45
STRIP LeftWall_917	7	7	12.4	0.4	0	77.112	45
STRIP LeftWall_917	7	7	12.8	0.4	0	79.56	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917	7	7	13.2	0.4	0	82.008	45
STRIP LeftWall_917	7	7	13.6	0.4	0	84.456	45
STRIP LeftWall_917	7	7	14	0.4	0	86.904	45
STRIP LeftWall_917	7	7	14.4	0.4	0	89.352	45
STRIP LeftWall_917	7	7	14.8	0.4	0	91.8	45
STRIP LeftWall_917	7	7	15.2	0.4	0	94.248	45
STRIP LeftWall_917	7	7	15.6	0.4	0	96.696	45
STRIP LeftWall_917	7	7	16	0.4	0	99.144	45
STRIP LeftWall_917	7	7	16.4	0.4	0	101.59	45
STRIP LeftWall_917	7	7	16.8	0.4	0	104.04	45
STRIP LeftWall_917	7	7	17.2	0.4	0	106.49	45
STRIP LeftWall_917	7	7	17.6	0.4	0	108.94	45
STRIP LeftWall_917	7	7	18	0.4	0	111.38	45
STRIP LeftWall_917	7	7	18.4	0.4	0	113.83	45
STRIP LeftWall_917	7	7	18.8	0.4	0	116.28	45
STRIP LeftWall_917	7	7	19.2	0.4	0	118.73	45
STRIP LeftWall_917	7	7	19.6	0.4	0	121.18	45
STRIP LeftWall_917	7	7	20	0.4	0	123.62	45
STRIP LeftWall_917	7	7	20.4	0.4	0	126.07	45
STRIP LeftWall_917	7	7	20.8	0.4	0	128.52	45
STRIP LeftWall_917	7	7	21.2	0.4	0	130.97	45
STRIP LeftWall_917	7	7	21.6	0.4	0	133.42	45
STRIP LeftWall_917	7	7	22	0.4	0	135.86	45
STRIP LeftWall_917	7	7	22.4	0.4	0	138.31	45
STRIP LeftWall_917	7	7	22.8	0.4	0	140.76	45
STRIP LeftWall_917	7	7	23.2	0.4	0	143.21	45
STRIP LeftWall_917	7	7	23.6	0.4	0	145.66	45
STRIP LeftWall_917	7	7	24	0.4	0	148.1	45
STRIP LeftWall_917	7	7	24.4	0.4	0	150.55	45
STRIP LeftWall_917	7	7	24.8	0.4	0	153	45
STRIP LeftWall_917	7	7	25.2	0.4	0	155.45	45
STRIP LeftWall_917	7	7	25.6	0.4	0	157.9	45
STRIP LeftWall_917	7	7	26	0.4	0	160.34	45
STRIP LeftWall_917	7	7	26.4	0.4	0	162.79	45
STRIP LeftWall_917	7	7	26.8	0.4	0	165.24	45
STRIP LeftWall_917	7	7	27.2	0.4	0	167.69	45
STRIP LeftWall_917	7	7	27.6	0.4	0	170.14	45
STRIP LeftWall_917	7	7	28	0.4	0	172.58	45
STRIP LeftWall_917	7	7	28.4	0.4	0	175.03	45
STRIP LeftWall_917	7	7	28.8	0.4	0	177.48	45
STRIP LeftWall_917	7	7	29.2	0.4	0	179.93	45
STRIP LeftWall_917	7	7	29.6	0.4	0	182.38	45
STRIP LeftWall_917	8	8	0	0.4	0	1.224	45
STRIP LeftWall_917	8	8	0.4	0.4	0	3.672	45
STRIP LeftWall_917	8	8	0.8	0.4	0	6.12	45
STRIP LeftWall_917	8	8	1.2	0.4	0	8.568	45
STRIP LeftWall_917	8	8	1.6	0.4	0	11.016	45
STRIP LeftWall_917	8	8	2	0.4	0	13.464	45
STRIP LeftWall_917	8	8	2.4	0.4	0	15.912	45
STRIP LeftWall_917	8	8	2.8	0.4	0	18.36	45
STRIP LeftWall_917	8	8	3.2	0.4	0	20.808	45
STRIP LeftWall_917	8	8	3.6	0.4	0	23.256	45
STRIP LeftWall_917	8	8	4	0.4	0	25.704	45
STRIP LeftWall_917	8	8	4.4	0.4	0	28.152	45
STRIP LeftWall_917	8	8	4.8	0.4	0	30.6	45
STRIP LeftWall_917	8	8	5.2	0.4	0	33.048	45
STRIP LeftWall_917	8	8	5.6	0.4	0	35.496	45
STRIP LeftWall_917	8	8	6	0.4	0	37.944	45
STRIP LeftWall_917	8	8	6.4	0.4	0	40.392	45
STRIP LeftWall_917	8	8	6.8	0.4	0	42.84	45
STRIP LeftWall_917	8	8	7.2	0.4	0	45.288	45
STRIP LeftWall_917	8	8	7.6	0.4	0	47.736	45
STRIP LeftWall_917	8	8	8	0.4	0	50.184	45
STRIP LeftWall_917	8	8	8.4	0.4	0	52.632	45
STRIP LeftWall_917	8	8	8.8	0.4	0	55.08	45
STRIP LeftWall_917	8	8	9.2	0.4	0	57.528	45
STRIP LeftWall_917	8	8	9.6	0.4	0	59.976	45
STRIP LeftWall_917	8	8	10	0.4	0	62.424	45
STRIP LeftWall_917	8	8	10.4	0.4	0	64.872	45
STRIP LeftWall_917	8	8	10.8	0.4	0	67.32	45
STRIP LeftWall_917	8	8	11.2	0.4	0	69.768	45
STRIP LeftWall_917	8	8	11.6	0.4	0	72.216	45
STRIP LeftWall_917	8	8	12	0.4	0	74.664	45
STRIP LeftWall_917	8	8	12.4	0.4	0	77.112	45
STRIP LeftWall_917	8	8	12.8	0.4	0	79.56	45
STRIP LeftWall_917	8	8	13.2	0.4	0	82.008	45
STRIP LeftWall_917	8	8	13.6	0.4	0	84.456	45
STRIP LeftWall_917	8	8	14	0.4	0	86.904	45
STRIP LeftWall_917	8	8	14.4	0.4	0	89.352	45
STRIP LeftWall_917	8	8	14.8	0.4	0	91.8	45
STRIP LeftWall_917	8	8	15.2	0.4	0	94.248	45
STRIP LeftWall_917	8	8	15.6	0.4	0	96.696	45
STRIP LeftWall_917	8	8	16	0.4	0	99.144	45
STRIP LeftWall_917	8	8	16.4	0.4	0	101.59	45
STRIP LeftWall_917	8	8	16.8	0.4	0	104.04	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP	LeftWall_917	8	8	17.2	0.4	0	106.49	45
STRIP	LeftWall_917	8	8	17.6	0.4	0	108.94	45
STRIP	LeftWall_917	8	8	18	0.4	0	111.38	45
STRIP	LeftWall_917	8	8	18.4	0.4	0	113.83	45
STRIP	LeftWall_917	8	8	18.8	0.4	0	116.28	45
STRIP	LeftWall_917	8	8	19.2	0.4	0	118.73	45
STRIP	LeftWall_917	8	8	19.6	0.4	0	121.18	45
STRIP	LeftWall_917	8	8	20	0.4	0	123.62	45
STRIP	LeftWall_917	8	8	20.4	0.4	0	126.07	45
STRIP	LeftWall_917	8	8	20.8	0.4	0	128.52	45
STRIP	LeftWall_917	8	8	21.2	0.4	0	130.97	45
STRIP	LeftWall_917	8	8	21.6	0.4	0	133.42	45
STRIP	LeftWall_917	8	8	22	0.4	0	135.86	45
STRIP	LeftWall_917	8	8	22.4	0.4	0	138.31	45
STRIP	LeftWall_917	8	8	22.8	0.4	0	140.76	45
STRIP	LeftWall_917	8	8	23.2	0.4	0	143.21	45
STRIP	LeftWall_917	8	8	23.6	0.4	0	145.66	45
STRIP	LeftWall_917	8	8	24	0.4	0	148.1	45
STRIP	LeftWall_917	8	8	24.4	0.4	0	150.55	45
STRIP	LeftWall_917	8	8	24.8	0.4	0	153	45
STRIP	LeftWall_917	8	8	25.2	0.4	0	155.45	45
STRIP	LeftWall_917	8	8	25.6	0.4	0	157.9	45
STRIP	LeftWall_917	8	8	26	0.4	0	160.34	45
STRIP	LeftWall_917	8	8	26.4	0.4	0	162.79	45
STRIP	LeftWall_917	8	8	26.8	0.4	0	165.24	45
STRIP	LeftWall_917	8	8	27.2	0.4	0	167.69	45
STRIP	LeftWall_917	8	8	27.6	0.4	0	170.14	45
STRIP	LeftWall_917	8	8	28	0.4	0	172.58	45
STRIP	LeftWall_917	8	8	28.4	0.4	0	175.03	45
STRIP	LeftWall_917	8	8	28.8	0.4	0	177.48	45
STRIP	LeftWall_917	8	8	29.2	0.4	0	179.93	45
STRIP	LeftWall_917	8	8	29.6	0.4	0	182.38	45
STRIP	LeftWall_917	9	9	0	0.4	0	1.224	45
STRIP	LeftWall_917	9	9	0.4	0.4	0	3.672	45
STRIP	LeftWall_917	9	9	0.8	0.4	0	6.12	45
STRIP	LeftWall_917	9	9	1.2	0.4	0	8.568	45
STRIP	LeftWall_917	9	9	1.6	0.4	0	11.016	45
STRIP	LeftWall_917	9	9	2	0.4	0	13.464	45
STRIP	LeftWall_917	9	9	2.4	0.4	0	15.912	45
STRIP	LeftWall_917	9	9	2.8	0.4	0	18.36	45
STRIP	LeftWall_917	9	9	3.2	0.4	0	20.808	45
STRIP	LeftWall_917	9	9	3.6	0.4	0	23.256	45
STRIP	LeftWall_917	9	9	4	0.4	0	25.704	45
STRIP	LeftWall_917	9	9	4.4	0.4	0	28.152	45
STRIP	LeftWall_917	9	9	4.8	0.4	0	30.6	45
STRIP	LeftWall_917	9	9	5.2	0.4	0	33.048	45
STRIP	LeftWall_917	9	9	5.6	0.4	0	35.496	45
STRIP	LeftWall_917	9	9	6	0.4	0	37.944	45
STRIP	LeftWall_917	9	9	6.4	0.4	0	40.392	45
STRIP	LeftWall_917	9	9	6.8	0.4	0	42.84	45
STRIP	LeftWall_917	9	9	7.2	0.4	0	45.288	45
STRIP	LeftWall_917	9	9	7.6	0.4	0	47.736	45
STRIP	LeftWall_917	9	9	8	0.4	0	50.184	45
STRIP	LeftWall_917	9	9	8.4	0.4	0	52.632	45
STRIP	LeftWall_917	9	9	8.8	0.4	0	55.08	45
STRIP	LeftWall_917	9	9	9.2	0.4	0	57.528	45
STRIP	LeftWall_917	9	9	9.6	0.4	0	59.976	45
STRIP	LeftWall_917	9	9	10	0.4	0	62.424	45
STRIP	LeftWall_917	9	9	10.4	0.4	0	64.872	45
STRIP	LeftWall_917	9	9	10.8	0.4	0	67.32	45
STRIP	LeftWall_917	9	9	11.2	0.4	0	69.768	45
STRIP	LeftWall_917	9	9	11.6	0.4	0	72.216	45
STRIP	LeftWall_917	9	9	12	0.4	0	74.664	45
STRIP	LeftWall_917	9	9	12.4	0.4	0	77.112	45
STRIP	LeftWall_917	9	9	12.8	0.4	0	79.56	45
STRIP	LeftWall_917	9	9	13.2	0.4	0	82.008	45
STRIP	LeftWall_917	9	9	13.6	0.4	0	84.456	45
STRIP	LeftWall_917	9	9	14	0.4	0	86.904	45
STRIP	LeftWall_917	9	9	14.4	0.4	0	89.352	45
STRIP	LeftWall_917	9	9	14.8	0.4	0	91.8	45
STRIP	LeftWall_917	9	9	15.2	0.4	0	94.248	45
STRIP	LeftWall_917	9	9	15.6	0.4	0	96.696	45
STRIP	LeftWall_917	9	9	16	0.4	0	99.144	45
STRIP	LeftWall_917	9	9	16.4	0.4	0	101.59	45
STRIP	LeftWall_917	9	9	16.8	0.4	0	104.04	45
STRIP	LeftWall_917	9	9	17.2	0.4	0	106.49	45
STRIP	LeftWall_917	9	9	17.6	0.4	0	108.94	45
STRIP	LeftWall_917	9	9	18	0.4	0	111.38	45
STRIP	LeftWall_917	9	9	18.4	0.4	0	113.83	45
STRIP	LeftWall_917	9	9	18.8	0.4	0	116.28	45
STRIP	LeftWall_917	9	9	19.2	0.4	0	118.73	45
STRIP	LeftWall_917	9	9	19.6	0.4	0	121.18	45
STRIP	LeftWall_917	9	9	20	0.4	0	123.62	45
STRIP	LeftWall_917	9	9	20.4	0.4	0	126.07	45
STRIP	LeftWall_917	9	9	20.8	0.4	0	128.52	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 9 9 21.2 0.4 0 130.97 45
STRIP LeftWall_917 9 9 21.6 0.4 0 133.42 45
STRIP LeftWall_917 9 9 22 0.4 0 135.86 45
STRIP LeftWall_917 9 9 22.4 0.4 0 138.31 45
STRIP LeftWall_917 9 9 22.8 0.4 0 140.76 45
STRIP LeftWall_917 9 9 23.2 0.4 0 143.21 45
STRIP LeftWall_917 9 9 23.6 0.4 0 145.66 45
STRIP LeftWall_917 9 9 24 0.4 0 148.1 45
STRIP LeftWall_917 9 9 24.4 0.4 0 150.55 45
STRIP LeftWall_917 9 9 24.8 0.4 0 153 45
STRIP LeftWall_917 9 9 25.2 0.4 0 155.45 45
STRIP LeftWall_917 9 9 25.6 0.4 0 157.9 45
STRIP LeftWall_917 9 9 26 0.4 0 160.34 45
STRIP LeftWall_917 9 9 26.4 0.4 0 162.79 45
STRIP LeftWall_917 9 9 26.8 0.4 0 165.24 45
STRIP LeftWall_917 9 9 27.2 0.4 0 167.69 45
STRIP LeftWall_917 9 9 27.6 0.4 0 170.14 45
STRIP LeftWall_917 9 9 28 0.4 0 172.58 45
STRIP LeftWall_917 9 9 28.4 0.4 0 175.03 45
STRIP LeftWall_917 9 9 28.8 0.4 0 177.48 45
STRIP LeftWall_917 9 9 29.2 0.4 0 179.93 45
STRIP LeftWall_917 9 9 29.6 0.4 0 182.38 45
STRIP LeftWall_917 10 10 0 0.4 0 1.224 45
STRIP LeftWall_917 10 10 0.4 0.4 0 3.672 45
STRIP LeftWall_917 10 10 0.8 0.4 0 6.12 45
STRIP LeftWall_917 10 10 1.2 0.4 0 8.568 45
STRIP LeftWall_917 10 10 1.6 0.4 0 11.016 45
STRIP LeftWall_917 10 10 2 0.4 0 13.464 45
STRIP LeftWall_917 10 10 2.4 0.4 0 15.912 45
STRIP LeftWall_917 10 10 2.8 0.4 0 18.36 45
STRIP LeftWall_917 10 10 3.2 0.4 0 20.808 45
STRIP LeftWall_917 10 10 3.6 0.4 0 23.256 45
STRIP LeftWall_917 10 10 4 0.4 0 25.704 45
STRIP LeftWall_917 10 10 4.4 0.4 0 28.152 45
STRIP LeftWall_917 10 10 4.8 0.4 0 30.6 45
STRIP LeftWall_917 10 10 5.2 0.4 0 33.048 45
STRIP LeftWall_917 10 10 5.6 0.4 0 35.496 45
STRIP LeftWall_917 10 10 6 0.4 0 37.944 45
STRIP LeftWall_917 10 10 6.4 0.4 0 40.392 45
STRIP LeftWall_917 10 10 6.8 0.4 0 42.84 45
STRIP LeftWall_917 10 10 7.2 0.4 0 45.288 45
STRIP LeftWall_917 10 10 7.6 0.4 0 47.736 45
STRIP LeftWall_917 10 10 8 0.4 0 50.184 45
STRIP LeftWall_917 10 10 8.4 0.4 0 52.632 45
STRIP LeftWall_917 10 10 8.8 0.4 0 55.08 45
STRIP LeftWall_917 10 10 9.2 0.4 0 57.528 45
STRIP LeftWall_917 10 10 9.6 0.4 0 59.976 45
STRIP LeftWall_917 10 10 10 0.4 0 62.424 45
STRIP LeftWall_917 10 10 10.4 0.4 0 64.872 45
STRIP LeftWall_917 10 10 10.8 0.4 0 67.32 45
STRIP LeftWall_917 10 10 11.2 0.4 0 69.768 45
STRIP LeftWall_917 10 10 11.6 0.4 0 72.216 45
STRIP LeftWall_917 10 10 12 0.4 0 74.664 45
STRIP LeftWall_917 10 10 12.4 0.4 0 77.112 45
STRIP LeftWall_917 10 10 12.8 0.4 0 79.56 45
STRIP LeftWall_917 10 10 13.2 0.4 0 82.008 45
STRIP LeftWall_917 10 10 13.6 0.4 0 84.456 45
STRIP LeftWall_917 10 10 14 0.4 0 86.904 45
STRIP LeftWall_917 10 10 14.4 0.4 0 89.352 45
STRIP LeftWall_917 10 10 14.8 0.4 0 91.8 45
STRIP LeftWall_917 10 10 15.2 0.4 0 94.248 45
STRIP LeftWall_917 10 10 15.6 0.4 0 96.696 45
STRIP LeftWall_917 10 10 16 0.4 0 99.144 45
STRIP LeftWall_917 10 10 16.4 0.4 0 101.59 45
STRIP LeftWall_917 10 10 16.8 0.4 0 104.04 45
STRIP LeftWall_917 10 10 17.2 0.4 0 106.49 45
STRIP LeftWall_917 10 10 17.6 0.4 0 108.94 45
STRIP LeftWall_917 10 10 18 0.4 0 111.38 45
STRIP LeftWall_917 10 10 18.4 0.4 0 113.83 45
STRIP LeftWall_917 10 10 18.8 0.4 0 116.28 45
STRIP LeftWall_917 10 10 19.2 0.4 0 118.73 45
STRIP LeftWall_917 10 10 19.6 0.4 0 121.18 45
STRIP LeftWall_917 10 10 20 0.4 0 123.62 45
STRIP LeftWall_917 10 10 20.4 0.4 0 126.07 45
STRIP LeftWall_917 10 10 20.8 0.4 0 128.52 45
STRIP LeftWall_917 10 10 21.2 0.4 0 130.97 45
STRIP LeftWall_917 10 10 21.6 0.4 0 133.42 45
STRIP LeftWall_917 10 10 22 0.4 0 135.86 45
STRIP LeftWall_917 10 10 22.4 0.4 0 138.31 45
STRIP LeftWall_917 10 10 22.8 0.4 0 140.76 45
STRIP LeftWall_917 10 10 23.2 0.4 0 143.21 45
STRIP LeftWall_917 10 10 23.6 0.4 0 145.66 45
STRIP LeftWall_917 10 10 24 0.4 0 148.1 45
STRIP LeftWall_917 10 10 24.4 0.4 0 150.55 45
STRIP LeftWall_917 10 10 24.8 0.4 0 153 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 10 10 25.2 0.4 0 155.45 45
STRIP LeftWall_917 10 10 25.6 0.4 0 157.9 45
STRIP LeftWall_917 10 10 26 0.4 0 160.34 45
STRIP LeftWall_917 10 10 26.4 0.4 0 162.79 45
STRIP LeftWall_917 10 10 26.8 0.4 0 165.24 45
STRIP LeftWall_917 10 10 27.2 0.4 0 167.69 45
STRIP LeftWall_917 10 10 27.6 0.4 0 170.14 45
STRIP LeftWall_917 10 10 28 0.4 0 172.58 45
STRIP LeftWall_917 10 10 28.4 0.4 0 175.03 45
STRIP LeftWall_917 10 10 28.8 0.4 0 177.48 45
STRIP LeftWall_917 10 10 29.2 0.4 0 179.93 45
STRIP LeftWall_917 10 10 29.6 0.4 0 182.38 45
STRIP LeftWall_917 11 11 0 0.4 0 1.224 45
STRIP LeftWall_917 11 11 0.4 0.4 0 3.672 45
STRIP LeftWall_917 11 11 0.8 0.4 0 6.12 45
STRIP LeftWall_917 11 11 1.2 0.4 0 8.568 45
STRIP LeftWall_917 11 11 1.6 0.4 0 11.016 45
STRIP LeftWall_917 11 11 2 0.4 0 13.464 45
STRIP LeftWall_917 11 11 2.4 0.4 0 15.912 45
STRIP LeftWall_917 11 11 2.8 0.4 0 18.36 45
STRIP LeftWall_917 11 11 3.2 0.4 0 20.808 45
STRIP LeftWall_917 11 11 3.6 0.4 0 23.256 45
STRIP LeftWall_917 11 11 4 0.4 0 25.704 45
STRIP LeftWall_917 11 11 4.4 0.4 0 28.152 45
STRIP LeftWall_917 11 11 4.8 0.4 0 30.6 45
STRIP LeftWall_917 11 11 5.2 0.4 0 33.048 45
STRIP LeftWall_917 11 11 5.6 0.4 0 35.496 45
STRIP LeftWall_917 11 11 6 0.4 0 37.944 45
STRIP LeftWall_917 11 11 6.4 0.4 0 40.392 45
STRIP LeftWall_917 11 11 6.8 0.4 0 42.84 45
STRIP LeftWall_917 11 11 7.2 0.4 0 45.288 45
STRIP LeftWall_917 11 11 7.6 0.4 0 47.736 45
STRIP LeftWall_917 11 11 8 0.4 0 50.184 45
STRIP LeftWall_917 11 11 8.4 0.4 0 52.632 45
STRIP LeftWall_917 11 11 8.8 0.4 0 55.08 45
STRIP LeftWall_917 11 11 9.2 0.4 0 57.528 45
STRIP LeftWall_917 11 11 9.6 0.4 0 59.976 45
STRIP LeftWall_917 11 11 10 0.4 0 62.424 45
STRIP LeftWall_917 11 11 10.4 0.4 0 64.872 45
STRIP LeftWall_917 11 11 10.8 0.4 0 67.32 45
STRIP LeftWall_917 11 11 11.2 0.4 0 69.768 45
STRIP LeftWall_917 11 11 11.6 0.4 0 72.216 45
STRIP LeftWall_917 11 11 12 0.4 0 74.664 45
STRIP LeftWall_917 11 11 12.4 0.4 0 77.112 45
STRIP LeftWall_917 11 11 12.8 0.4 0 79.56 45
STRIP LeftWall_917 11 11 13.2 0.4 0 82.008 45
STRIP LeftWall_917 11 11 13.6 0.4 0 84.456 45
STRIP LeftWall_917 11 11 14 0.4 0 86.904 45
STRIP LeftWall_917 11 11 14.4 0.4 0 89.352 45
STRIP LeftWall_917 11 11 14.8 0.4 0 91.8 45
STRIP LeftWall_917 11 11 15.2 0.4 0 94.248 45
STRIP LeftWall_917 11 11 15.6 0.4 0 96.696 45
STRIP LeftWall_917 11 11 16 0.4 0 99.144 45
STRIP LeftWall_917 11 11 16.4 0.4 0 101.59 45
STRIP LeftWall_917 11 11 16.8 0.4 0 104.04 45
STRIP LeftWall_917 11 11 17.2 0.4 0 106.49 45
STRIP LeftWall_917 11 11 17.6 0.4 0 108.94 45
STRIP LeftWall_917 11 11 18 0.4 0 111.38 45
STRIP LeftWall_917 11 11 18.4 0.4 0 113.83 45
STRIP LeftWall_917 11 11 18.8 0.4 0 116.28 45
STRIP LeftWall_917 11 11 19.2 0.4 0 118.73 45
STRIP LeftWall_917 11 11 19.6 0.4 0 121.18 45
STRIP LeftWall_917 11 11 20 0.4 0 123.62 45
STRIP LeftWall_917 11 11 20.4 0.4 0 126.07 45
STRIP LeftWall_917 11 11 20.8 0.4 0 128.52 45
STRIP LeftWall_917 11 11 21.2 0.4 0 130.97 45
STRIP LeftWall_917 11 11 21.6 0.4 0 133.42 45
STRIP LeftWall_917 11 11 22 0.4 0 135.86 45
STRIP LeftWall_917 11 11 22.4 0.4 0 138.31 45
STRIP LeftWall_917 11 11 22.8 0.4 0 140.76 45
STRIP LeftWall_917 11 11 23.2 0.4 0 143.21 45
STRIP LeftWall_917 11 11 23.6 0.4 0 145.66 45
STRIP LeftWall_917 11 11 24 0.4 0 148.1 45
STRIP LeftWall_917 11 11 24.4 0.4 0 150.55 45
STRIP LeftWall_917 11 11 24.8 0.4 0 153 45
STRIP LeftWall_917 11 11 25.2 0.4 0 155.45 45
STRIP LeftWall_917 11 11 25.6 0.4 0 157.9 45
STRIP LeftWall_917 11 11 26 0.4 0 160.34 45
STRIP LeftWall_917 11 11 26.4 0.4 0 162.79 45
STRIP LeftWall_917 11 11 26.8 0.4 0 165.24 45
STRIP LeftWall_917 11 11 27.2 0.4 0 167.69 45
STRIP LeftWall_917 11 11 27.6 0.4 0 170.14 45
STRIP LeftWall_917 11 11 28 0.4 0 172.58 45
STRIP LeftWall_917 11 11 28.4 0.4 0 175.03 45
STRIP LeftWall_917 11 11 28.8 0.4 0 177.48 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917 11 11 29.2 0.4 0 179.93 45
STRIP LeftWall_917 11 11 29.6 0.4 0 182.38 45

*** 7: Defining Steps**

STEP Stepn.0Condizioniiiniziali_924
CHANGE Coltredeiritica_2_905_L_0 U-FRICT=30 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-FRICT=30 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KA=0.333 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KP=4.288 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KA=0.333 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KP=4.288 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KP=5.879 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KP=5.879 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-COHE=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-ADHES=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-COHE=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-ADHES=0 LeftWall_917
SETWALL LeftWall_917
GEOM 0 0
SURCHARGE 0 0 0 0
WATER -30 0 -14.5 0 0
ADD LeftWallElement_1092
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.1Fasediscavol-Fase1_935
SETWALL LeftWall_917
GEOM 0 -4.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.2Fasediscavol-Fase2_953
SETWALL LeftWall_917
GEOM 0 -4.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -14.5 0 0
ADD Tirantiesistenti+587.00_965
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.3Fasediscavo2-Fase1_973
SETWALL LeftWall_917
GEOM 0 -7.5
SURCHARGE 0 0 0 -6.25
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.4Fasediscavo2-Fase2_991
SETWALL LeftWall_917
GEOM 0 -7.5
SURCHARGE 0 0 0 -6.25
WATER -30 0 -14.5 0 0
ADD Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.5Fasefinalisediscavoes_1011
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.6Primotirantenuovo_1029
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
ADD TirantinuovIT3_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.7Secondotirantenuovo_1049

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



```
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
ADD TirantinuoviT1_3735
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage8Rilasciotirantiesist_3737
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
REMOVE Tirantiesistenti+587.00_965 Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage9Scavodiprogetto_33947
SETWALL LeftWall_917
GEOM 0 -11.2
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage10Sisma_5719
SETWALL LeftWall_917
GEOM 0 -11.2
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
** SUBINCREMENT LOGIC - active since June 2019
  SUBINCREMENTS 5
ENDSTEP
```

12.4 Design Assumption : NTC2018: A2+M2+R1 - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: NTC2018: A2+M2+R1
* Time:mercoledì 14 dicembre 2022 10:41:10
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_917 0 -14.5 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_917 -14.5 0 1 0
SOIL 0_R LeftWall_917 -14.5 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Coltredetrifica_2_905_L_0)
*
LDATA Coltredetrifica_2_905_L_0 25 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 18 10 10
PERMEABILITY 1E-05
RESISTANCE 0 30 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 30000 48000
ENDL
*
* Soil Profile (Marnaarenacea_8_906_L_0)
*
LDATA Marnaarenacea_8_906_L_0 -3 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 21 13 10
PERMEABILITY 0.0001
RESISTANCE 100 35 0 0 0
TZDATA LINEAR 20000 0 30 0.5 0
KSCALE 0 0
YOUNG 1E+06 1.6E+06
ENDL
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

```
* 5: Defining structural materials
* Rebar material: 54 Name=Strands 270 ksi E=200100000 kPa
MATERIAL Strands270ksi_54 2.001E+08
* Concrete material: 1093 Name=C20/25 E=29962000 kPa
MATERIAL C2025_1093 2.9962E+07
* Steel material: 43 Name=Fe510 E=206000200 kPa
MATERIAL Fe510_43 2.06E+08

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later
BEAM LeftWallElement_1092 LeftWall_917 -14.5 0 Fe510_43 0.080792 0.018495 4.3946E-05 1.4241 00 00 0

* 6.2: Supports
WIRE Tirantiesistenti+587.00_965 LeftWall_917 -4 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+584.00_1003 LeftWall_917 -7 Strands270ksi_54 1.9841E-05 62.5 15 0 0
WIRE TirantinuoviT3_3643 LeftWall_917 -9 Strands270ksi_54 1.9501E-05 62.5 15 0 0
WIRE TirantinuoviT1_3735 LeftWall_917 -2 Strands270ksi_54 1.611E-05 62.5 15 0 0

* 6.3: Strips

* (slope contribution)
STRIP LeftWall_917 1 1 0 0.4 0 1.224 45
STRIP LeftWall_917 1 1 0.4 0.4 0 3.672 45
STRIP LeftWall_917 1 1 0.8 0.4 0 6.12 45
STRIP LeftWall_917 1 1 1.2 0.4 0 8.568 45
STRIP LeftWall_917 1 1 1.6 0.4 0 11.016 45
STRIP LeftWall_917 1 1 2 0.4 0 13.464 45
STRIP LeftWall_917 1 1 2.4 0.4 0 15.912 45
STRIP LeftWall_917 1 1 2.8 0.4 0 18.36 45
STRIP LeftWall_917 1 1 3.2 0.4 0 20.808 45
STRIP LeftWall_917 1 1 3.6 0.4 0 23.256 45
STRIP LeftWall_917 1 1 4 0.4 0 25.704 45
STRIP LeftWall_917 1 1 4.4 0.4 0 28.152 45
STRIP LeftWall_917 1 1 4.8 0.4 0 30.6 45
STRIP LeftWall_917 1 1 5.2 0.4 0 33.048 45
STRIP LeftWall_917 1 1 5.6 0.4 0 35.496 45
STRIP LeftWall_917 1 1 6 0.4 0 37.944 45
STRIP LeftWall_917 1 1 6.4 0.4 0 40.392 45
STRIP LeftWall_917 1 1 6.8 0.4 0 42.84 45
STRIP LeftWall_917 1 1 7.2 0.4 0 45.288 45
STRIP LeftWall_917 1 1 7.6 0.4 0 47.736 45
STRIP LeftWall_917 1 1 8 0.4 0 50.184 45
STRIP LeftWall_917 1 1 8.4 0.4 0 52.632 45
STRIP LeftWall_917 1 1 8.8 0.4 0 55.08 45
STRIP LeftWall_917 1 1 9.2 0.4 0 57.528 45
STRIP LeftWall_917 1 1 9.6 0.4 0 59.976 45
STRIP LeftWall_917 1 1 10 0.4 0 62.424 45
STRIP LeftWall_917 1 1 10.4 0.4 0 64.872 45
STRIP LeftWall_917 1 1 10.8 0.4 0 67.32 45
STRIP LeftWall_917 1 1 11.2 0.4 0 69.768 45
STRIP LeftWall_917 1 1 11.6 0.4 0 72.216 45
STRIP LeftWall_917 1 1 12 0.4 0 74.664 45
STRIP LeftWall_917 1 1 12.4 0.4 0 77.112 45
STRIP LeftWall_917 1 1 12.8 0.4 0 79.56 45
STRIP LeftWall_917 1 1 13.2 0.4 0 82.008 45
STRIP LeftWall_917 1 1 13.6 0.4 0 84.456 45
STRIP LeftWall_917 1 1 14 0.4 0 86.904 45
STRIP LeftWall_917 1 1 14.4 0.4 0 89.352 45
STRIP LeftWall_917 1 1 14.8 0.4 0 91.8 45
STRIP LeftWall_917 1 1 15.2 0.4 0 94.248 45
STRIP LeftWall_917 1 1 15.6 0.4 0 96.696 45
STRIP LeftWall_917 1 1 16 0.4 0 99.144 45
STRIP LeftWall_917 1 1 16.4 0.4 0 101.59 45
STRIP LeftWall_917 1 1 16.8 0.4 0 104.04 45
STRIP LeftWall_917 1 1 17.2 0.4 0 106.49 45
STRIP LeftWall_917 1 1 17.6 0.4 0 108.94 45
STRIP LeftWall_917 1 1 18 0.4 0 111.38 45
STRIP LeftWall_917 1 1 18.4 0.4 0 113.83 45
STRIP LeftWall_917 1 1 18.8 0.4 0 116.28 45
STRIP LeftWall_917 1 1 19.2 0.4 0 118.73 45
STRIP LeftWall_917 1 1 19.6 0.4 0 121.18 45
STRIP LeftWall_917 1 1 20 0.4 0 123.62 45
STRIP LeftWall_917 1 1 20.4 0.4 0 126.07 45
STRIP LeftWall_917 1 1 20.8 0.4 0 128.52 45
STRIP LeftWall_917 1 1 21.2 0.4 0 130.97 45
STRIP LeftWall_917 1 1 21.6 0.4 0 133.42 45
STRIP LeftWall_917 1 1 22 0.4 0 135.86 45
STRIP LeftWall_917 1 1 22.4 0.4 0 138.31 45
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 1 1 22.8 0.4 0 140.76 45
STRIP LeftWall_917 1 1 23.2 0.4 0 143.21 45
STRIP LeftWall_917 1 1 23.6 0.4 0 145.66 45
STRIP LeftWall_917 1 1 24 0.4 0 148.1 45
STRIP LeftWall_917 1 1 24.4 0.4 0 150.55 45
STRIP LeftWall_917 1 1 24.8 0.4 0 153 45
STRIP LeftWall_917 1 1 25.2 0.4 0 155.45 45
STRIP LeftWall_917 1 1 25.6 0.4 0 157.9 45
STRIP LeftWall_917 1 1 26 0.4 0 160.34 45
STRIP LeftWall_917 1 1 26.4 0.4 0 162.79 45
STRIP LeftWall_917 1 1 26.8 0.4 0 165.24 45
STRIP LeftWall_917 1 1 27.2 0.4 0 167.69 45
STRIP LeftWall_917 1 1 27.6 0.4 0 170.14 45
STRIP LeftWall_917 1 1 28 0.4 0 172.58 45
STRIP LeftWall_917 1 1 28.4 0.4 0 175.03 45
STRIP LeftWall_917 1 1 28.8 0.4 0 177.48 45
STRIP LeftWall_917 1 1 29.2 0.4 0 179.93 45
STRIP LeftWall_917 1 1 29.6 0.4 0 182.38 45
STRIP LeftWall_917 2 2 0 0.4 0 1.224 45
STRIP LeftWall_917 2 2 0.4 0.4 0 3.672 45
STRIP LeftWall_917 2 2 0.8 0.4 0 6.12 45
STRIP LeftWall_917 2 2 1.2 0.4 0 8.568 45
STRIP LeftWall_917 2 2 1.6 0.4 0 11.016 45
STRIP LeftWall_917 2 2 2 0.4 0 13.464 45
STRIP LeftWall_917 2 2 2.4 0.4 0 15.912 45
STRIP LeftWall_917 2 2 2.8 0.4 0 18.36 45
STRIP LeftWall_917 2 2 3.2 0.4 0 20.808 45
STRIP LeftWall_917 2 2 3.6 0.4 0 23.256 45
STRIP LeftWall_917 2 2 4 0.4 0 25.704 45
STRIP LeftWall_917 2 2 4.4 0.4 0 28.152 45
STRIP LeftWall_917 2 2 4.8 0.4 0 30.6 45
STRIP LeftWall_917 2 2 5.2 0.4 0 33.048 45
STRIP LeftWall_917 2 2 5.6 0.4 0 35.496 45
STRIP LeftWall_917 2 2 6 0.4 0 37.944 45
STRIP LeftWall_917 2 2 6.4 0.4 0 40.392 45
STRIP LeftWall_917 2 2 6.8 0.4 0 42.84 45
STRIP LeftWall_917 2 2 7.2 0.4 0 45.288 45
STRIP LeftWall_917 2 2 7.6 0.4 0 47.736 45
STRIP LeftWall_917 2 2 8 0.4 0 50.184 45
STRIP LeftWall_917 2 2 8.4 0.4 0 52.632 45
STRIP LeftWall_917 2 2 8.8 0.4 0 55.08 45
STRIP LeftWall_917 2 2 9.2 0.4 0 57.528 45
STRIP LeftWall_917 2 2 9.6 0.4 0 59.976 45
STRIP LeftWall_917 2 2 10 0.4 0 62.424 45
STRIP LeftWall_917 2 2 10.4 0.4 0 64.872 45
STRIP LeftWall_917 2 2 10.8 0.4 0 67.32 45
STRIP LeftWall_917 2 2 11.2 0.4 0 69.768 45
STRIP LeftWall_917 2 2 11.6 0.4 0 72.216 45
STRIP LeftWall_917 2 2 12 0.4 0 74.664 45
STRIP LeftWall_917 2 2 12.4 0.4 0 77.112 45
STRIP LeftWall_917 2 2 12.8 0.4 0 79.56 45
STRIP LeftWall_917 2 2 13.2 0.4 0 82.008 45
STRIP LeftWall_917 2 2 13.6 0.4 0 84.456 45
STRIP LeftWall_917 2 2 14 0.4 0 86.904 45
STRIP LeftWall_917 2 2 14.4 0.4 0 89.352 45
STRIP LeftWall_917 2 2 14.8 0.4 0 91.8 45
STRIP LeftWall_917 2 2 15.2 0.4 0 94.248 45
STRIP LeftWall_917 2 2 15.6 0.4 0 96.696 45
STRIP LeftWall_917 2 2 16 0.4 0 99.144 45
STRIP LeftWall_917 2 2 16.4 0.4 0 101.59 45
STRIP LeftWall_917 2 2 16.8 0.4 0 104.04 45
STRIP LeftWall_917 2 2 17.2 0.4 0 106.49 45
STRIP LeftWall_917 2 2 17.6 0.4 0 108.94 45
STRIP LeftWall_917 2 2 18 0.4 0 111.38 45
STRIP LeftWall_917 2 2 18.4 0.4 0 113.83 45
STRIP LeftWall_917 2 2 18.8 0.4 0 116.28 45
STRIP LeftWall_917 2 2 19.2 0.4 0 118.73 45
STRIP LeftWall_917 2 2 19.6 0.4 0 121.18 45
STRIP LeftWall_917 2 2 20 0.4 0 123.62 45
STRIP LeftWall_917 2 2 20.4 0.4 0 126.07 45
STRIP LeftWall_917 2 2 20.8 0.4 0 128.52 45
STRIP LeftWall_917 2 2 21.2 0.4 0 130.97 45
STRIP LeftWall_917 2 2 21.6 0.4 0 133.42 45
STRIP LeftWall_917 2 2 22 0.4 0 135.86 45
STRIP LeftWall_917 2 2 22.4 0.4 0 138.31 45
STRIP LeftWall_917 2 2 22.8 0.4 0 140.76 45
STRIP LeftWall_917 2 2 23.2 0.4 0 143.21 45
STRIP LeftWall_917 2 2 23.6 0.4 0 145.66 45
STRIP LeftWall_917 2 2 24 0.4 0 148.1 45
STRIP LeftWall_917 2 2 24.4 0.4 0 150.55 45
STRIP LeftWall_917 2 2 24.8 0.4 0 153 45
STRIP LeftWall_917 2 2 25.2 0.4 0 155.45 45
STRIP LeftWall_917 2 2 25.6 0.4 0 157.9 45
STRIP LeftWall_917 2 2 26 0.4 0 160.34 45
STRIP LeftWall_917 2 2 26.4 0.4 0 162.79 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 2 2 26.8 0.4 0 165.24 45
STRIP LeftWall_917 2 2 27.2 0.4 0 167.69 45
STRIP LeftWall_917 2 2 27.6 0.4 0 170.14 45
STRIP LeftWall_917 2 2 28 0.4 0 172.58 45
STRIP LeftWall_917 2 2 28.4 0.4 0 175.03 45
STRIP LeftWall_917 2 2 28.8 0.4 0 177.48 45
STRIP LeftWall_917 2 2 29.2 0.4 0 179.93 45
STRIP LeftWall_917 2 2 29.6 0.4 0 182.38 45
STRIP LeftWall_917 3 3 0 0.4 0 1.224 45
STRIP LeftWall_917 3 3 0.4 0.4 0 3.672 45
STRIP LeftWall_917 3 3 0.8 0.4 0 6.12 45
STRIP LeftWall_917 3 3 1.2 0.4 0 8.568 45
STRIP LeftWall_917 3 3 1.6 0.4 0 11.016 45
STRIP LeftWall_917 3 3 2 0.4 0 13.464 45
STRIP LeftWall_917 3 3 2.4 0.4 0 15.912 45
STRIP LeftWall_917 3 3 2.8 0.4 0 18.36 45
STRIP LeftWall_917 3 3 3.2 0.4 0 20.808 45
STRIP LeftWall_917 3 3 3.6 0.4 0 23.256 45
STRIP LeftWall_917 3 3 4 0.4 0 25.704 45
STRIP LeftWall_917 3 3 4.4 0.4 0 28.152 45
STRIP LeftWall_917 3 3 4.8 0.4 0 30.6 45
STRIP LeftWall_917 3 3 5.2 0.4 0 33.048 45
STRIP LeftWall_917 3 3 5.6 0.4 0 35.496 45
STRIP LeftWall_917 3 3 6 0.4 0 37.944 45
STRIP LeftWall_917 3 3 6.4 0.4 0 40.392 45
STRIP LeftWall_917 3 3 6.8 0.4 0 42.84 45
STRIP LeftWall_917 3 3 7.2 0.4 0 45.288 45
STRIP LeftWall_917 3 3 7.6 0.4 0 47.736 45
STRIP LeftWall_917 3 3 8 0.4 0 50.184 45
STRIP LeftWall_917 3 3 8.4 0.4 0 52.632 45
STRIP LeftWall_917 3 3 8.8 0.4 0 55.08 45
STRIP LeftWall_917 3 3 9.2 0.4 0 57.528 45
STRIP LeftWall_917 3 3 9.6 0.4 0 59.976 45
STRIP LeftWall_917 3 3 10 0.4 0 62.424 45
STRIP LeftWall_917 3 3 10.4 0.4 0 64.872 45
STRIP LeftWall_917 3 3 10.8 0.4 0 67.32 45
STRIP LeftWall_917 3 3 11.2 0.4 0 69.768 45
STRIP LeftWall_917 3 3 11.6 0.4 0 72.216 45
STRIP LeftWall_917 3 3 12 0.4 0 74.664 45
STRIP LeftWall_917 3 3 12.4 0.4 0 77.112 45
STRIP LeftWall_917 3 3 12.8 0.4 0 79.56 45
STRIP LeftWall_917 3 3 13.2 0.4 0 82.008 45
STRIP LeftWall_917 3 3 13.6 0.4 0 84.456 45
STRIP LeftWall_917 3 3 14 0.4 0 86.904 45
STRIP LeftWall_917 3 3 14.4 0.4 0 89.352 45
STRIP LeftWall_917 3 3 14.8 0.4 0 91.8 45
STRIP LeftWall_917 3 3 15.2 0.4 0 94.248 45
STRIP LeftWall_917 3 3 15.6 0.4 0 96.696 45
STRIP LeftWall_917 3 3 16 0.4 0 99.144 45
STRIP LeftWall_917 3 3 16.4 0.4 0 101.59 45
STRIP LeftWall_917 3 3 16.8 0.4 0 104.04 45
STRIP LeftWall_917 3 3 17.2 0.4 0 106.49 45
STRIP LeftWall_917 3 3 17.6 0.4 0 108.94 45
STRIP LeftWall_917 3 3 18 0.4 0 111.38 45
STRIP LeftWall_917 3 3 18.4 0.4 0 113.83 45
STRIP LeftWall_917 3 3 18.8 0.4 0 116.28 45
STRIP LeftWall_917 3 3 19.2 0.4 0 118.73 45
STRIP LeftWall_917 3 3 19.6 0.4 0 121.18 45
STRIP LeftWall_917 3 3 20 0.4 0 123.62 45
STRIP LeftWall_917 3 3 20.4 0.4 0 126.07 45
STRIP LeftWall_917 3 3 20.8 0.4 0 128.52 45
STRIP LeftWall_917 3 3 21.2 0.4 0 130.97 45
STRIP LeftWall_917 3 3 21.6 0.4 0 133.42 45
STRIP LeftWall_917 3 3 22 0.4 0 135.86 45
STRIP LeftWall_917 3 3 22.4 0.4 0 138.31 45
STRIP LeftWall_917 3 3 22.8 0.4 0 140.76 45
STRIP LeftWall_917 3 3 23.2 0.4 0 143.21 45
STRIP LeftWall_917 3 3 23.6 0.4 0 145.66 45
STRIP LeftWall_917 3 3 24 0.4 0 148.1 45
STRIP LeftWall_917 3 3 24.4 0.4 0 150.55 45
STRIP LeftWall_917 3 3 24.8 0.4 0 153 45
STRIP LeftWall_917 3 3 25.2 0.4 0 155.45 45
STRIP LeftWall_917 3 3 25.6 0.4 0 157.9 45
STRIP LeftWall_917 3 3 26 0.4 0 160.34 45
STRIP LeftWall_917 3 3 26.4 0.4 0 162.79 45
STRIP LeftWall_917 3 3 26.8 0.4 0 165.24 45
STRIP LeftWall_917 3 3 27.2 0.4 0 167.69 45
STRIP LeftWall_917 3 3 27.6 0.4 0 170.14 45
STRIP LeftWall_917 3 3 28 0.4 0 172.58 45
STRIP LeftWall_917 3 3 28.4 0.4 0 175.03 45
STRIP LeftWall_917 3 3 28.8 0.4 0 177.48 45
STRIP LeftWall_917 3 3 29.2 0.4 0 179.93 45
STRIP LeftWall_917 3 3 29.6 0.4 0 182.38 45
STRIP LeftWall_917 4 4 0 0.4 0 1.224 45
STRIP LeftWall_917 4 4 0.4 0.4 0 3.672 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP	LeftWall_917	4	4	0.8	0.4	0	6.12	45
STRIP	LeftWall_917	4	4	1.2	0.4	0	8.568	45
STRIP	LeftWall_917	4	4	1.6	0.4	0	11.016	45
STRIP	LeftWall_917	4	4	2.0	0.4	0	13.464	45
STRIP	LeftWall_917	4	4	2.4	0.4	0	15.912	45
STRIP	LeftWall_917	4	4	2.8	0.4	0	18.36	45
STRIP	LeftWall_917	4	4	3.2	0.4	0	20.808	45
STRIP	LeftWall_917	4	4	3.6	0.4	0	23.256	45
STRIP	LeftWall_917	4	4	4.0	0.4	0	25.704	45
STRIP	LeftWall_917	4	4	4.4	0.4	0	28.152	45
STRIP	LeftWall_917	4	4	4.8	0.4	0	30.6	45
STRIP	LeftWall_917	4	4	5.2	0.4	0	33.048	45
STRIP	LeftWall_917	4	4	5.6	0.4	0	35.496	45
STRIP	LeftWall_917	4	4	6.0	0.4	0	37.944	45
STRIP	LeftWall_917	4	4	6.4	0.4	0	40.392	45
STRIP	LeftWall_917	4	4	6.8	0.4	0	42.84	45
STRIP	LeftWall_917	4	4	7.2	0.4	0	45.288	45
STRIP	LeftWall_917	4	4	7.6	0.4	0	47.736	45
STRIP	LeftWall_917	4	4	8.0	0.4	0	50.184	45
STRIP	LeftWall_917	4	4	8.4	0.4	0	52.632	45
STRIP	LeftWall_917	4	4	8.8	0.4	0	55.08	45
STRIP	LeftWall_917	4	4	9.2	0.4	0	57.528	45
STRIP	LeftWall_917	4	4	9.6	0.4	0	59.976	45
STRIP	LeftWall_917	4	4	10.0	0.4	0	62.424	45
STRIP	LeftWall_917	4	4	10.4	0.4	0	64.872	45
STRIP	LeftWall_917	4	4	10.8	0.4	0	67.32	45
STRIP	LeftWall_917	4	4	11.2	0.4	0	69.768	45
STRIP	LeftWall_917	4	4	11.6	0.4	0	72.216	45
STRIP	LeftWall_917	4	4	12.0	0.4	0	74.664	45
STRIP	LeftWall_917	4	4	12.4	0.4	0	77.112	45
STRIP	LeftWall_917	4	4	12.8	0.4	0	79.56	45
STRIP	LeftWall_917	4	4	13.2	0.4	0	82.008	45
STRIP	LeftWall_917	4	4	13.6	0.4	0	84.456	45
STRIP	LeftWall_917	4	4	14.0	0.4	0	86.904	45
STRIP	LeftWall_917	4	4	14.4	0.4	0	89.352	45
STRIP	LeftWall_917	4	4	14.8	0.4	0	91.8	45
STRIP	LeftWall_917	4	4	15.2	0.4	0	94.248	45
STRIP	LeftWall_917	4	4	15.6	0.4	0	96.696	45
STRIP	LeftWall_917	4	4	16.0	0.4	0	99.144	45
STRIP	LeftWall_917	4	4	16.4	0.4	0	101.59	45
STRIP	LeftWall_917	4	4	16.8	0.4	0	104.04	45
STRIP	LeftWall_917	4	4	17.2	0.4	0	106.49	45
STRIP	LeftWall_917	4	4	17.6	0.4	0	108.94	45
STRIP	LeftWall_917	4	4	18.0	0.4	0	111.38	45
STRIP	LeftWall_917	4	4	18.4	0.4	0	113.83	45
STRIP	LeftWall_917	4	4	18.8	0.4	0	116.28	45
STRIP	LeftWall_917	4	4	19.2	0.4	0	118.73	45
STRIP	LeftWall_917	4	4	19.6	0.4	0	121.18	45
STRIP	LeftWall_917	4	4	20.0	0.4	0	123.62	45
STRIP	LeftWall_917	4	4	20.4	0.4	0	126.07	45
STRIP	LeftWall_917	4	4	20.8	0.4	0	128.52	45
STRIP	LeftWall_917	4	4	21.2	0.4	0	130.97	45
STRIP	LeftWall_917	4	4	21.6	0.4	0	133.42	45
STRIP	LeftWall_917	4	4	22.0	0.4	0	135.86	45
STRIP	LeftWall_917	4	4	22.4	0.4	0	138.31	45
STRIP	LeftWall_917	4	4	22.8	0.4	0	140.76	45
STRIP	LeftWall_917	4	4	23.2	0.4	0	143.21	45
STRIP	LeftWall_917	4	4	23.6	0.4	0	145.66	45
STRIP	LeftWall_917	4	4	24.0	0.4	0	148.1	45
STRIP	LeftWall_917	4	4	24.4	0.4	0	150.55	45
STRIP	LeftWall_917	4	4	24.8	0.4	0	153	45
STRIP	LeftWall_917	4	4	25.2	0.4	0	155.45	45
STRIP	LeftWall_917	4	4	25.6	0.4	0	157.9	45
STRIP	LeftWall_917	4	4	26.0	0.4	0	160.34	45
STRIP	LeftWall_917	4	4	26.4	0.4	0	162.79	45
STRIP	LeftWall_917	4	4	26.8	0.4	0	165.24	45
STRIP	LeftWall_917	4	4	27.2	0.4	0	167.69	45
STRIP	LeftWall_917	4	4	27.6	0.4	0	170.14	45
STRIP	LeftWall_917	4	4	28.0	0.4	0	172.58	45
STRIP	LeftWall_917	4	4	28.4	0.4	0	175.03	45
STRIP	LeftWall_917	4	4	28.8	0.4	0	177.48	45
STRIP	LeftWall_917	4	4	29.2	0.4	0	179.93	45
STRIP	LeftWall_917	4	4	29.6	0.4	0	182.38	45
STRIP	LeftWall_917	5	5	0.4	0.4	0	1.224	45
STRIP	LeftWall_917	5	5	0.8	0.4	0	3.672	45
STRIP	LeftWall_917	5	5	1.2	0.4	0	6.12	45
STRIP	LeftWall_917	5	5	1.6	0.4	0	8.568	45
STRIP	LeftWall_917	5	5	2.0	0.4	0	11.016	45
STRIP	LeftWall_917	5	5	2.4	0.4	0	13.464	45
STRIP	LeftWall_917	5	5	2.8	0.4	0	15.912	45
STRIP	LeftWall_917	5	5	3.2	0.4	0	18.36	45
STRIP	LeftWall_917	5	5	3.6	0.4	0	20.808	45
STRIP	LeftWall_917	5	5	4.0	0.4	0	23.256	45
STRIP	LeftWall_917	5	5	4.4	0.4	0	25.704	45
STRIP	LeftWall_917	5	5	4.8	0.4	0	28.152	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 5 5 4.8 0.4 0 30.6 45
STRIP LeftWall_917 5 5 5.2 0.4 0 33.048 45
STRIP LeftWall_917 5 5 5.6 0.4 0 35.496 45
STRIP LeftWall_917 5 5 6 0.4 0 37.944 45
STRIP LeftWall_917 5 5 6.4 0.4 0 40.392 45
STRIP LeftWall_917 5 5 6.8 0.4 0 42.84 45
STRIP LeftWall_917 5 5 7.2 0.4 0 45.288 45
STRIP LeftWall_917 5 5 7.6 0.4 0 47.736 45
STRIP LeftWall_917 5 5 8 0.4 0 50.184 45
STRIP LeftWall_917 5 5 8.4 0.4 0 52.632 45
STRIP LeftWall_917 5 5 8.8 0.4 0 55.08 45
STRIP LeftWall_917 5 5 9.2 0.4 0 57.528 45
STRIP LeftWall_917 5 5 9.6 0.4 0 59.976 45
STRIP LeftWall_917 5 5 10 0.4 0 62.424 45
STRIP LeftWall_917 5 5 10.4 0.4 0 64.872 45
STRIP LeftWall_917 5 5 10.8 0.4 0 67.32 45
STRIP LeftWall_917 5 5 11.2 0.4 0 69.768 45
STRIP LeftWall_917 5 5 11.6 0.4 0 72.216 45
STRIP LeftWall_917 5 5 12 0.4 0 74.664 45
STRIP LeftWall_917 5 5 12.4 0.4 0 77.112 45
STRIP LeftWall_917 5 5 12.8 0.4 0 79.56 45
STRIP LeftWall_917 5 5 13.2 0.4 0 82.008 45
STRIP LeftWall_917 5 5 13.6 0.4 0 84.456 45
STRIP LeftWall_917 5 5 14 0.4 0 86.904 45
STRIP LeftWall_917 5 5 14.4 0.4 0 89.352 45
STRIP LeftWall_917 5 5 14.8 0.4 0 91.8 45
STRIP LeftWall_917 5 5 15.2 0.4 0 94.248 45
STRIP LeftWall_917 5 5 15.6 0.4 0 96.696 45
STRIP LeftWall_917 5 5 16 0.4 0 99.144 45
STRIP LeftWall_917 5 5 16.4 0.4 0 101.59 45
STRIP LeftWall_917 5 5 16.8 0.4 0 104.04 45
STRIP LeftWall_917 5 5 17.2 0.4 0 106.49 45
STRIP LeftWall_917 5 5 17.6 0.4 0 108.94 45
STRIP LeftWall_917 5 5 18 0.4 0 111.38 45
STRIP LeftWall_917 5 5 18.4 0.4 0 113.83 45
STRIP LeftWall_917 5 5 18.8 0.4 0 116.28 45
STRIP LeftWall_917 5 5 19.2 0.4 0 118.73 45
STRIP LeftWall_917 5 5 19.6 0.4 0 121.18 45
STRIP LeftWall_917 5 5 20 0.4 0 123.62 45
STRIP LeftWall_917 5 5 20.4 0.4 0 126.07 45
STRIP LeftWall_917 5 5 20.8 0.4 0 128.52 45
STRIP LeftWall_917 5 5 21.2 0.4 0 130.97 45
STRIP LeftWall_917 5 5 21.6 0.4 0 133.42 45
STRIP LeftWall_917 5 5 22 0.4 0 135.86 45
STRIP LeftWall_917 5 5 22.4 0.4 0 138.31 45
STRIP LeftWall_917 5 5 22.8 0.4 0 140.76 45
STRIP LeftWall_917 5 5 23.2 0.4 0 143.21 45
STRIP LeftWall_917 5 5 23.6 0.4 0 145.66 45
STRIP LeftWall_917 5 5 24 0.4 0 148.1 45
STRIP LeftWall_917 5 5 24.4 0.4 0 150.55 45
STRIP LeftWall_917 5 5 24.8 0.4 0 153 45
STRIP LeftWall_917 5 5 25.2 0.4 0 155.45 45
STRIP LeftWall_917 5 5 25.6 0.4 0 157.9 45
STRIP LeftWall_917 5 5 26 0.4 0 160.34 45
STRIP LeftWall_917 5 5 26.4 0.4 0 162.79 45
STRIP LeftWall_917 5 5 26.8 0.4 0 165.24 45
STRIP LeftWall_917 5 5 27.2 0.4 0 167.69 45
STRIP LeftWall_917 5 5 27.6 0.4 0 170.14 45
STRIP LeftWall_917 5 5 28 0.4 0 172.58 45
STRIP LeftWall_917 5 5 28.4 0.4 0 175.03 45
STRIP LeftWall_917 5 5 28.8 0.4 0 177.48 45
STRIP LeftWall_917 5 5 29.2 0.4 0 179.93 45
STRIP LeftWall_917 5 5 29.6 0.4 0 182.38 45
STRIP LeftWall_917 6 6 0 0.4 0 1.224 45
STRIP LeftWall_917 6 6 0.4 0.4 0 3.672 45
STRIP LeftWall_917 6 6 0.8 0.4 0 6.12 45
STRIP LeftWall_917 6 6 1.2 0.4 0 8.568 45
STRIP LeftWall_917 6 6 1.6 0.4 0 11.016 45
STRIP LeftWall_917 6 6 2 0.4 0 13.464 45
STRIP LeftWall_917 6 6 2.4 0.4 0 15.912 45
STRIP LeftWall_917 6 6 2.8 0.4 0 18.36 45
STRIP LeftWall_917 6 6 3.2 0.4 0 20.808 45
STRIP LeftWall_917 6 6 3.6 0.4 0 23.256 45
STRIP LeftWall_917 6 6 4 0.4 0 25.704 45
STRIP LeftWall_917 6 6 4.4 0.4 0 28.152 45
STRIP LeftWall_917 6 6 4.8 0.4 0 30.6 45
STRIP LeftWall_917 6 6 5.2 0.4 0 33.048 45
STRIP LeftWall_917 6 6 5.6 0.4 0 35.496 45
STRIP LeftWall_917 6 6 6 0.4 0 37.944 45
STRIP LeftWall_917 6 6 6.4 0.4 0 40.392 45
STRIP LeftWall_917 6 6 6.8 0.4 0 42.84 45
STRIP LeftWall_917 6 6 7.2 0.4 0 45.288 45
STRIP LeftWall_917 6 6 7.6 0.4 0 47.736 45
STRIP LeftWall_917 6 6 8 0.4 0 50.184 45
STRIP LeftWall_917 6 6 8.4 0.4 0 52.632 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 6 6 8.8 0.4 0 55.08 45
STRIP LeftWall_917 6 6 9.2 0.4 0 57.528 45
STRIP LeftWall_917 6 6 9.6 0.4 0 59.976 45
STRIP LeftWall_917 6 6 10 0.4 0 62.424 45
STRIP LeftWall_917 6 6 10.4 0.4 0 64.872 45
STRIP LeftWall_917 6 6 10.8 0.4 0 67.32 45
STRIP LeftWall_917 6 6 11.2 0.4 0 69.768 45
STRIP LeftWall_917 6 6 11.6 0.4 0 72.216 45
STRIP LeftWall_917 6 6 12 0.4 0 74.664 45
STRIP LeftWall_917 6 6 12.4 0.4 0 77.112 45
STRIP LeftWall_917 6 6 12.8 0.4 0 79.56 45
STRIP LeftWall_917 6 6 13.2 0.4 0 82.008 45
STRIP LeftWall_917 6 6 13.6 0.4 0 84.456 45
STRIP LeftWall_917 6 6 14 0.4 0 86.904 45
STRIP LeftWall_917 6 6 14.4 0.4 0 89.352 45
STRIP LeftWall_917 6 6 14.8 0.4 0 91.8 45
STRIP LeftWall_917 6 6 15.2 0.4 0 94.248 45
STRIP LeftWall_917 6 6 15.6 0.4 0 96.696 45
STRIP LeftWall_917 6 6 16 0.4 0 99.144 45
STRIP LeftWall_917 6 6 16.4 0.4 0 101.59 45
STRIP LeftWall_917 6 6 16.8 0.4 0 104.04 45
STRIP LeftWall_917 6 6 17.2 0.4 0 106.49 45
STRIP LeftWall_917 6 6 17.6 0.4 0 108.94 45
STRIP LeftWall_917 6 6 18 0.4 0 111.38 45
STRIP LeftWall_917 6 6 18.4 0.4 0 113.83 45
STRIP LeftWall_917 6 6 18.8 0.4 0 116.28 45
STRIP LeftWall_917 6 6 19.2 0.4 0 118.73 45
STRIP LeftWall_917 6 6 19.6 0.4 0 121.18 45
STRIP LeftWall_917 6 6 20 0.4 0 123.62 45
STRIP LeftWall_917 6 6 20.4 0.4 0 126.07 45
STRIP LeftWall_917 6 6 20.8 0.4 0 128.52 45
STRIP LeftWall_917 6 6 21.2 0.4 0 130.97 45
STRIP LeftWall_917 6 6 21.6 0.4 0 133.42 45
STRIP LeftWall_917 6 6 22 0.4 0 135.86 45
STRIP LeftWall_917 6 6 22.4 0.4 0 138.31 45
STRIP LeftWall_917 6 6 22.8 0.4 0 140.76 45
STRIP LeftWall_917 6 6 23.2 0.4 0 143.21 45
STRIP LeftWall_917 6 6 23.6 0.4 0 145.66 45
STRIP LeftWall_917 6 6 24 0.4 0 148.1 45
STRIP LeftWall_917 6 6 24.4 0.4 0 150.55 45
STRIP LeftWall_917 6 6 24.8 0.4 0 153 45
STRIP LeftWall_917 6 6 25.2 0.4 0 155.45 45
STRIP LeftWall_917 6 6 25.6 0.4 0 157.9 45
STRIP LeftWall_917 6 6 26 0.4 0 160.34 45
STRIP LeftWall_917 6 6 26.4 0.4 0 162.79 45
STRIP LeftWall_917 6 6 26.8 0.4 0 165.24 45
STRIP LeftWall_917 6 6 27.2 0.4 0 167.69 45
STRIP LeftWall_917 6 6 27.6 0.4 0 170.14 45
STRIP LeftWall_917 6 6 28 0.4 0 172.58 45
STRIP LeftWall_917 6 6 28.4 0.4 0 175.03 45
STRIP LeftWall_917 6 6 28.8 0.4 0 177.48 45
STRIP LeftWall_917 6 6 29.2 0.4 0 179.93 45
STRIP LeftWall_917 6 6 29.6 0.4 0 182.38 45
STRIP LeftWall_917 7 7 0 0.4 0 1.224 45
STRIP LeftWall_917 7 7 0.4 0.4 0 3.672 45
STRIP LeftWall_917 7 7 0.8 0.4 0 6.12 45
STRIP LeftWall_917 7 7 1.2 0.4 0 8.568 45
STRIP LeftWall_917 7 7 1.6 0.4 0 11.016 45
STRIP LeftWall_917 7 7 2 0.4 0 13.464 45
STRIP LeftWall_917 7 7 2.4 0.4 0 15.912 45
STRIP LeftWall_917 7 7 2.8 0.4 0 18.36 45
STRIP LeftWall_917 7 7 3.2 0.4 0 20.808 45
STRIP LeftWall_917 7 7 3.6 0.4 0 23.256 45
STRIP LeftWall_917 7 7 4 0.4 0 25.704 45
STRIP LeftWall_917 7 7 4.4 0.4 0 28.152 45
STRIP LeftWall_917 7 7 4.8 0.4 0 30.6 45
STRIP LeftWall_917 7 7 5.2 0.4 0 33.048 45
STRIP LeftWall_917 7 7 5.6 0.4 0 35.496 45
STRIP LeftWall_917 7 7 6 0.4 0 37.944 45
STRIP LeftWall_917 7 7 6.4 0.4 0 40.392 45
STRIP LeftWall_917 7 7 6.8 0.4 0 42.84 45
STRIP LeftWall_917 7 7 7.2 0.4 0 45.288 45
STRIP LeftWall_917 7 7 7.6 0.4 0 47.736 45
STRIP LeftWall_917 7 7 8 0.4 0 50.184 45
STRIP LeftWall_917 7 7 8.4 0.4 0 52.632 45
STRIP LeftWall_917 7 7 8.8 0.4 0 55.08 45
STRIP LeftWall_917 7 7 9.2 0.4 0 57.528 45
STRIP LeftWall_917 7 7 9.6 0.4 0 59.976 45
STRIP LeftWall_917 7 7 10 0.4 0 62.424 45
STRIP LeftWall_917 7 7 10.4 0.4 0 64.872 45
STRIP LeftWall_917 7 7 10.8 0.4 0 67.32 45
STRIP LeftWall_917 7 7 11.2 0.4 0 69.768 45
STRIP LeftWall_917 7 7 11.6 0.4 0 72.216 45
STRIP LeftWall_917 7 7 12 0.4 0 74.664 45
STRIP LeftWall_917 7 7 12.4 0.4 0 77.112 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 7 7 12.8 0.4 0 79.56 45
STRIP LeftWall_917 7 7 13.2 0.4 0 82.008 45
STRIP LeftWall_917 7 7 13.6 0.4 0 84.456 45
STRIP LeftWall_917 7 7 14 0.4 0 86.904 45
STRIP LeftWall_917 7 7 14.4 0.4 0 89.352 45
STRIP LeftWall_917 7 7 14.8 0.4 0 91.8 45
STRIP LeftWall_917 7 7 15.2 0.4 0 94.248 45
STRIP LeftWall_917 7 7 15.6 0.4 0 96.696 45
STRIP LeftWall_917 7 7 16 0.4 0 99.144 45
STRIP LeftWall_917 7 7 16.4 0.4 0 101.59 45
STRIP LeftWall_917 7 7 16.8 0.4 0 104.04 45
STRIP LeftWall_917 7 7 17.2 0.4 0 106.49 45
STRIP LeftWall_917 7 7 17.6 0.4 0 108.94 45
STRIP LeftWall_917 7 7 18 0.4 0 111.38 45
STRIP LeftWall_917 7 7 18.4 0.4 0 113.83 45
STRIP LeftWall_917 7 7 18.8 0.4 0 116.28 45
STRIP LeftWall_917 7 7 19.2 0.4 0 118.73 45
STRIP LeftWall_917 7 7 19.6 0.4 0 121.18 45
STRIP LeftWall_917 7 7 20 0.4 0 123.62 45
STRIP LeftWall_917 7 7 20.4 0.4 0 126.07 45
STRIP LeftWall_917 7 7 20.8 0.4 0 128.52 45
STRIP LeftWall_917 7 7 21.2 0.4 0 130.97 45
STRIP LeftWall_917 7 7 21.6 0.4 0 133.42 45
STRIP LeftWall_917 7 7 22 0.4 0 135.86 45
STRIP LeftWall_917 7 7 22.4 0.4 0 138.31 45
STRIP LeftWall_917 7 7 22.8 0.4 0 140.76 45
STRIP LeftWall_917 7 7 23.2 0.4 0 143.21 45
STRIP LeftWall_917 7 7 23.6 0.4 0 145.66 45
STRIP LeftWall_917 7 7 24 0.4 0 148.1 45
STRIP LeftWall_917 7 7 24.4 0.4 0 150.55 45
STRIP LeftWall_917 7 7 24.8 0.4 0 153 45
STRIP LeftWall_917 7 7 25.2 0.4 0 155.45 45
STRIP LeftWall_917 7 7 25.6 0.4 0 157.9 45
STRIP LeftWall_917 7 7 26 0.4 0 160.34 45
STRIP LeftWall_917 7 7 26.4 0.4 0 162.79 45
STRIP LeftWall_917 7 7 26.8 0.4 0 165.24 45
STRIP LeftWall_917 7 7 27.2 0.4 0 167.69 45
STRIP LeftWall_917 7 7 27.6 0.4 0 170.14 45
STRIP LeftWall_917 7 7 28 0.4 0 172.58 45
STRIP LeftWall_917 7 7 28.4 0.4 0 175.03 45
STRIP LeftWall_917 7 7 28.8 0.4 0 177.48 45
STRIP LeftWall_917 7 7 29.2 0.4 0 179.93 45
STRIP LeftWall_917 7 7 29.6 0.4 0 182.38 45
STRIP LeftWall_917 8 8 0 0.4 0 1.224 45
STRIP LeftWall_917 8 8 0.4 0.4 0 3.672 45
STRIP LeftWall_917 8 8 0.8 0.4 0 6.12 45
STRIP LeftWall_917 8 8 1.2 0.4 0 8.568 45
STRIP LeftWall_917 8 8 1.6 0.4 0 11.016 45
STRIP LeftWall_917 8 8 2 0.4 0 13.464 45
STRIP LeftWall_917 8 8 2.4 0.4 0 15.912 45
STRIP LeftWall_917 8 8 2.8 0.4 0 18.36 45
STRIP LeftWall_917 8 8 3.2 0.4 0 20.808 45
STRIP LeftWall_917 8 8 3.6 0.4 0 23.256 45
STRIP LeftWall_917 8 8 4 0.4 0 25.704 45
STRIP LeftWall_917 8 8 4.4 0.4 0 28.152 45
STRIP LeftWall_917 8 8 4.8 0.4 0 30.6 45
STRIP LeftWall_917 8 8 5.2 0.4 0 33.048 45
STRIP LeftWall_917 8 8 5.6 0.4 0 35.496 45
STRIP LeftWall_917 8 8 6 0.4 0 37.944 45
STRIP LeftWall_917 8 8 6.4 0.4 0 40.392 45
STRIP LeftWall_917 8 8 6.8 0.4 0 42.84 45
STRIP LeftWall_917 8 8 7.2 0.4 0 45.288 45
STRIP LeftWall_917 8 8 7.6 0.4 0 47.736 45
STRIP LeftWall_917 8 8 8 0.4 0 50.184 45
STRIP LeftWall_917 8 8 8.4 0.4 0 52.632 45
STRIP LeftWall_917 8 8 8.8 0.4 0 55.08 45
STRIP LeftWall_917 8 8 9.2 0.4 0 57.528 45
STRIP LeftWall_917 8 8 9.6 0.4 0 59.976 45
STRIP LeftWall_917 8 8 10 0.4 0 62.424 45
STRIP LeftWall_917 8 8 10.4 0.4 0 64.872 45
STRIP LeftWall_917 8 8 10.8 0.4 0 67.32 45
STRIP LeftWall_917 8 8 11.2 0.4 0 69.768 45
STRIP LeftWall_917 8 8 11.6 0.4 0 72.216 45
STRIP LeftWall_917 8 8 12 0.4 0 74.664 45
STRIP LeftWall_917 8 8 12.4 0.4 0 77.112 45
STRIP LeftWall_917 8 8 12.8 0.4 0 79.56 45
STRIP LeftWall_917 8 8 13.2 0.4 0 82.008 45
STRIP LeftWall_917 8 8 13.6 0.4 0 84.456 45
STRIP LeftWall_917 8 8 14 0.4 0 86.904 45
STRIP LeftWall_917 8 8 14.4 0.4 0 89.352 45
STRIP LeftWall_917 8 8 14.8 0.4 0 91.8 45
STRIP LeftWall_917 8 8 15.2 0.4 0 94.248 45
STRIP LeftWall_917 8 8 15.6 0.4 0 96.696 45
STRIP LeftWall_917 8 8 16 0.4 0 99.144 45
STRIP LeftWall_917 8 8 16.4 0.4 0 101.59 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 8 8 16.8 0.4 0 104.04 45
STRIP LeftWall_917 8 8 17.2 0.4 0 106.49 45
STRIP LeftWall_917 8 8 17.6 0.4 0 108.94 45
STRIP LeftWall_917 8 8 18 0.4 0 111.38 45
STRIP LeftWall_917 8 8 18.4 0.4 0 113.83 45
STRIP LeftWall_917 8 8 18.8 0.4 0 116.28 45
STRIP LeftWall_917 8 8 19.2 0.4 0 118.73 45
STRIP LeftWall_917 8 8 19.6 0.4 0 121.18 45
STRIP LeftWall_917 8 8 20 0.4 0 123.62 45
STRIP LeftWall_917 8 8 20.4 0.4 0 126.07 45
STRIP LeftWall_917 8 8 20.8 0.4 0 128.52 45
STRIP LeftWall_917 8 8 21.2 0.4 0 130.97 45
STRIP LeftWall_917 8 8 21.6 0.4 0 133.42 45
STRIP LeftWall_917 8 8 22 0.4 0 135.86 45
STRIP LeftWall_917 8 8 22.4 0.4 0 138.31 45
STRIP LeftWall_917 8 8 22.8 0.4 0 140.76 45
STRIP LeftWall_917 8 8 23.2 0.4 0 143.21 45
STRIP LeftWall_917 8 8 23.6 0.4 0 145.66 45
STRIP LeftWall_917 8 8 24 0.4 0 148.1 45
STRIP LeftWall_917 8 8 24.4 0.4 0 150.55 45
STRIP LeftWall_917 8 8 24.8 0.4 0 153 45
STRIP LeftWall_917 8 8 25.2 0.4 0 155.45 45
STRIP LeftWall_917 8 8 25.6 0.4 0 157.9 45
STRIP LeftWall_917 8 8 26 0.4 0 160.34 45
STRIP LeftWall_917 8 8 26.4 0.4 0 162.79 45
STRIP LeftWall_917 8 8 26.8 0.4 0 165.24 45
STRIP LeftWall_917 8 8 27.2 0.4 0 167.69 45
STRIP LeftWall_917 8 8 27.6 0.4 0 170.14 45
STRIP LeftWall_917 8 8 28 0.4 0 172.58 45
STRIP LeftWall_917 8 8 28.4 0.4 0 175.03 45
STRIP LeftWall_917 8 8 28.8 0.4 0 177.48 45
STRIP LeftWall_917 8 8 29.2 0.4 0 179.93 45
STRIP LeftWall_917 8 8 29.6 0.4 0 182.38 45
STRIP LeftWall_917 9 0 0.4 0 1.224 45
STRIP LeftWall_917 9 0.4 0.4 0 3.672 45
STRIP LeftWall_917 9 0.8 0.4 0 6.12 45
STRIP LeftWall_917 9 1.2 0.4 0 8.568 45
STRIP LeftWall_917 9 1.6 0.4 0 11.016 45
STRIP LeftWall_917 9 2 0.4 0 13.464 45
STRIP LeftWall_917 9 2.4 0.4 0 15.912 45
STRIP LeftWall_917 9 2.8 0.4 0 18.36 45
STRIP LeftWall_917 9 3.2 0.4 0 20.808 45
STRIP LeftWall_917 9 3.6 0.4 0 23.256 45
STRIP LeftWall_917 9 4 0.4 0 25.704 45
STRIP LeftWall_917 9 4.4 0.4 0 28.152 45
STRIP LeftWall_917 9 4.8 0.4 0 30.6 45
STRIP LeftWall_917 9 5.2 0.4 0 33.048 45
STRIP LeftWall_917 9 5.6 0.4 0 35.496 45
STRIP LeftWall_917 9 6 0.4 0 37.944 45
STRIP LeftWall_917 9 6.4 0.4 0 40.392 45
STRIP LeftWall_917 9 6.8 0.4 0 42.84 45
STRIP LeftWall_917 9 7.2 0.4 0 45.288 45
STRIP LeftWall_917 9 7.6 0.4 0 47.736 45
STRIP LeftWall_917 9 8 0.4 0 50.184 45
STRIP LeftWall_917 9 8.4 0.4 0 52.632 45
STRIP LeftWall_917 9 8.8 0.4 0 55.08 45
STRIP LeftWall_917 9 9.2 0.4 0 57.528 45
STRIP LeftWall_917 9 9.6 0.4 0 59.976 45
STRIP LeftWall_917 9 10 0.4 0 62.424 45
STRIP LeftWall_917 9 10.4 0.4 0 64.872 45
STRIP LeftWall_917 9 10.8 0.4 0 67.32 45
STRIP LeftWall_917 9 11.2 0.4 0 69.768 45
STRIP LeftWall_917 9 11.6 0.4 0 72.216 45
STRIP LeftWall_917 9 12 0.4 0 74.664 45
STRIP LeftWall_917 9 12.4 0.4 0 77.112 45
STRIP LeftWall_917 9 12.8 0.4 0 79.56 45
STRIP LeftWall_917 9 13.2 0.4 0 82.008 45
STRIP LeftWall_917 9 13.6 0.4 0 84.456 45
STRIP LeftWall_917 9 14 0.4 0 86.904 45
STRIP LeftWall_917 9 14.4 0.4 0 89.352 45
STRIP LeftWall_917 9 14.8 0.4 0 91.8 45
STRIP LeftWall_917 9 15.2 0.4 0 94.248 45
STRIP LeftWall_917 9 15.6 0.4 0 96.696 45
STRIP LeftWall_917 9 16 0.4 0 99.144 45
STRIP LeftWall_917 9 16.4 0.4 0 101.59 45
STRIP LeftWall_917 9 16.8 0.4 0 104.04 45
STRIP LeftWall_917 9 17.2 0.4 0 106.49 45
STRIP LeftWall_917 9 17.6 0.4 0 108.94 45
STRIP LeftWall_917 9 18 0.4 0 111.38 45
STRIP LeftWall_917 9 18.4 0.4 0 113.83 45
STRIP LeftWall_917 9 18.8 0.4 0 116.28 45
STRIP LeftWall_917 9 19.2 0.4 0 118.73 45
STRIP LeftWall_917 9 19.6 0.4 0 121.18 45
STRIP LeftWall_917 9 20 0.4 0 123.62 45
STRIP LeftWall_917 9 20.4 0.4 0 126.07 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 9 9 20.8 0.4 0 128.52 45
STRIP LeftWall_917 9 9 21.2 0.4 0 130.97 45
STRIP LeftWall_917 9 9 21.6 0.4 0 133.42 45
STRIP LeftWall_917 9 9 22 0.4 0 135.86 45
STRIP LeftWall_917 9 9 22.4 0.4 0 138.31 45
STRIP LeftWall_917 9 9 22.8 0.4 0 140.76 45
STRIP LeftWall_917 9 9 23.2 0.4 0 143.21 45
STRIP LeftWall_917 9 9 23.6 0.4 0 145.66 45
STRIP LeftWall_917 9 9 24 0.4 0 148.1 45
STRIP LeftWall_917 9 9 24.4 0.4 0 150.55 45
STRIP LeftWall_917 9 9 24.8 0.4 0 153 45
STRIP LeftWall_917 9 9 25.2 0.4 0 155.45 45
STRIP LeftWall_917 9 9 25.6 0.4 0 157.9 45
STRIP LeftWall_917 9 9 26 0.4 0 160.34 45
STRIP LeftWall_917 9 9 26.4 0.4 0 162.79 45
STRIP LeftWall_917 9 9 26.8 0.4 0 165.24 45
STRIP LeftWall_917 9 9 27.2 0.4 0 167.69 45
STRIP LeftWall_917 9 9 27.6 0.4 0 170.14 45
STRIP LeftWall_917 9 9 28 0.4 0 172.58 45
STRIP LeftWall_917 9 9 28.4 0.4 0 175.03 45
STRIP LeftWall_917 9 9 28.8 0.4 0 177.48 45
STRIP LeftWall_917 9 9 29.2 0.4 0 179.93 45
STRIP LeftWall_917 9 9 29.6 0.4 0 182.38 45
STRIP LeftWall_917 10 10 0 0.4 0 1.224 45
STRIP LeftWall_917 10 10 0.4 0.4 0 3.672 45
STRIP LeftWall_917 10 10 0.8 0.4 0 6.12 45
STRIP LeftWall_917 10 10 1.2 0.4 0 8.568 45
STRIP LeftWall_917 10 10 1.6 0.4 0 11.016 45
STRIP LeftWall_917 10 10 2 0.4 0 13.464 45
STRIP LeftWall_917 10 10 2.4 0.4 0 15.912 45
STRIP LeftWall_917 10 10 2.8 0.4 0 18.36 45
STRIP LeftWall_917 10 10 3.2 0.4 0 20.808 45
STRIP LeftWall_917 10 10 3.6 0.4 0 23.256 45
STRIP LeftWall_917 10 10 4 0.4 0 25.704 45
STRIP LeftWall_917 10 10 4.4 0.4 0 28.152 45
STRIP LeftWall_917 10 10 4.8 0.4 0 30.6 45
STRIP LeftWall_917 10 10 5.2 0.4 0 33.048 45
STRIP LeftWall_917 10 10 5.6 0.4 0 35.496 45
STRIP LeftWall_917 10 10 6 0.4 0 37.944 45
STRIP LeftWall_917 10 10 6.4 0.4 0 40.392 45
STRIP LeftWall_917 10 10 6.8 0.4 0 42.84 45
STRIP LeftWall_917 10 10 7.2 0.4 0 45.288 45
STRIP LeftWall_917 10 10 7.6 0.4 0 47.736 45
STRIP LeftWall_917 10 10 8 0.4 0 50.184 45
STRIP LeftWall_917 10 10 8.4 0.4 0 52.632 45
STRIP LeftWall_917 10 10 8.8 0.4 0 55.08 45
STRIP LeftWall_917 10 10 9.2 0.4 0 57.528 45
STRIP LeftWall_917 10 10 9.6 0.4 0 59.976 45
STRIP LeftWall_917 10 10 10 0.4 0 62.424 45
STRIP LeftWall_917 10 10 10.4 0.4 0 64.872 45
STRIP LeftWall_917 10 10 10.8 0.4 0 67.32 45
STRIP LeftWall_917 10 10 11.2 0.4 0 69.768 45
STRIP LeftWall_917 10 10 11.6 0.4 0 72.216 45
STRIP LeftWall_917 10 10 12 0.4 0 74.664 45
STRIP LeftWall_917 10 10 12.4 0.4 0 77.112 45
STRIP LeftWall_917 10 10 12.8 0.4 0 79.56 45
STRIP LeftWall_917 10 10 13.2 0.4 0 82.008 45
STRIP LeftWall_917 10 10 13.6 0.4 0 84.456 45
STRIP LeftWall_917 10 10 14 0.4 0 86.904 45
STRIP LeftWall_917 10 10 14.4 0.4 0 89.352 45
STRIP LeftWall_917 10 10 14.8 0.4 0 91.8 45
STRIP LeftWall_917 10 10 15.2 0.4 0 94.248 45
STRIP LeftWall_917 10 10 15.6 0.4 0 96.696 45
STRIP LeftWall_917 10 10 16 0.4 0 99.144 45
STRIP LeftWall_917 10 10 16.4 0.4 0 101.59 45
STRIP LeftWall_917 10 10 16.8 0.4 0 104.04 45
STRIP LeftWall_917 10 10 17.2 0.4 0 106.49 45
STRIP LeftWall_917 10 10 17.6 0.4 0 108.94 45
STRIP LeftWall_917 10 10 18 0.4 0 111.38 45
STRIP LeftWall_917 10 10 18.4 0.4 0 113.83 45
STRIP LeftWall_917 10 10 18.8 0.4 0 116.28 45
STRIP LeftWall_917 10 10 19.2 0.4 0 118.73 45
STRIP LeftWall_917 10 10 19.6 0.4 0 121.18 45
STRIP LeftWall_917 10 10 20 0.4 0 123.62 45
STRIP LeftWall_917 10 10 20.4 0.4 0 126.07 45
STRIP LeftWall_917 10 10 20.8 0.4 0 128.52 45
STRIP LeftWall_917 10 10 21.2 0.4 0 130.97 45
STRIP LeftWall_917 10 10 21.6 0.4 0 133.42 45
STRIP LeftWall_917 10 10 22 0.4 0 135.86 45
STRIP LeftWall_917 10 10 22.4 0.4 0 138.31 45
STRIP LeftWall_917 10 10 22.8 0.4 0 140.76 45
STRIP LeftWall_917 10 10 23.2 0.4 0 143.21 45
STRIP LeftWall_917 10 10 23.6 0.4 0 145.66 45
STRIP LeftWall_917 10 10 24 0.4 0 148.1 45
STRIP LeftWall_917 10 10 24.4 0.4 0 150.55 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 10 10 24.8 0.4 0 153.45 45
STRIP LeftWall_917 10 10 25.2 0.4 0 155.45 45
STRIP LeftWall_917 10 10 25.6 0.4 0 157.9 45
STRIP LeftWall_917 10 10 26 0.4 0 160.34 45
STRIP LeftWall_917 10 10 26.4 0.4 0 162.79 45
STRIP LeftWall_917 10 10 26.8 0.4 0 165.24 45
STRIP LeftWall_917 10 10 27.2 0.4 0 167.69 45
STRIP LeftWall_917 10 10 27.6 0.4 0 170.14 45
STRIP LeftWall_917 10 10 28 0.4 0 172.58 45
STRIP LeftWall_917 10 10 28.4 0.4 0 175.03 45
STRIP LeftWall_917 10 10 28.8 0.4 0 177.48 45
STRIP LeftWall_917 10 10 29.2 0.4 0 179.93 45
STRIP LeftWall_917 10 10 29.6 0.4 0 182.38 45
STRIP LeftWall_917 11 11 0 0.4 0 1.224 45
STRIP LeftWall_917 11 11 0.4 0.4 0 3.672 45
STRIP LeftWall_917 11 11 0.8 0.4 0 6.12 45
STRIP LeftWall_917 11 11 1.2 0.4 0 8.568 45
STRIP LeftWall_917 11 11 1.6 0.4 0 11.016 45
STRIP LeftWall_917 11 11 2 0.4 0 13.464 45
STRIP LeftWall_917 11 11 2.4 0.4 0 15.912 45
STRIP LeftWall_917 11 11 2.8 0.4 0 18.36 45
STRIP LeftWall_917 11 11 3.2 0.4 0 20.808 45
STRIP LeftWall_917 11 11 3.6 0.4 0 23.256 45
STRIP LeftWall_917 11 11 4 0.4 0 25.704 45
STRIP LeftWall_917 11 11 4.4 0.4 0 28.152 45
STRIP LeftWall_917 11 11 4.8 0.4 0 30.6 45
STRIP LeftWall_917 11 11 5.2 0.4 0 33.048 45
STRIP LeftWall_917 11 11 5.6 0.4 0 35.496 45
STRIP LeftWall_917 11 11 6 0.4 0 37.944 45
STRIP LeftWall_917 11 11 6.4 0.4 0 40.392 45
STRIP LeftWall_917 11 11 6.8 0.4 0 42.84 45
STRIP LeftWall_917 11 11 7.2 0.4 0 45.288 45
STRIP LeftWall_917 11 11 7.6 0.4 0 47.736 45
STRIP LeftWall_917 11 11 8 0.4 0 50.184 45
STRIP LeftWall_917 11 11 8.4 0.4 0 52.632 45
STRIP LeftWall_917 11 11 8.8 0.4 0 55.08 45
STRIP LeftWall_917 11 11 9.2 0.4 0 57.528 45
STRIP LeftWall_917 11 11 9.6 0.4 0 59.976 45
STRIP LeftWall_917 11 11 10 0.4 0 62.424 45
STRIP LeftWall_917 11 11 10.4 0.4 0 64.872 45
STRIP LeftWall_917 11 11 10.8 0.4 0 67.32 45
STRIP LeftWall_917 11 11 11.2 0.4 0 69.768 45
STRIP LeftWall_917 11 11 11.6 0.4 0 72.216 45
STRIP LeftWall_917 11 11 12 0.4 0 74.664 45
STRIP LeftWall_917 11 11 12.4 0.4 0 77.112 45
STRIP LeftWall_917 11 11 12.8 0.4 0 79.56 45
STRIP LeftWall_917 11 11 13.2 0.4 0 82.008 45
STRIP LeftWall_917 11 11 13.6 0.4 0 84.456 45
STRIP LeftWall_917 11 11 14 0.4 0 86.904 45
STRIP LeftWall_917 11 11 14.4 0.4 0 89.352 45
STRIP LeftWall_917 11 11 14.8 0.4 0 91.8 45
STRIP LeftWall_917 11 11 15.2 0.4 0 94.248 45
STRIP LeftWall_917 11 11 15.6 0.4 0 96.696 45
STRIP LeftWall_917 11 11 16 0.4 0 99.144 45
STRIP LeftWall_917 11 11 16.4 0.4 0 101.59 45
STRIP LeftWall_917 11 11 16.8 0.4 0 104.04 45
STRIP LeftWall_917 11 11 17.2 0.4 0 106.49 45
STRIP LeftWall_917 11 11 17.6 0.4 0 108.94 45
STRIP LeftWall_917 11 11 18 0.4 0 111.38 45
STRIP LeftWall_917 11 11 18.4 0.4 0 113.83 45
STRIP LeftWall_917 11 11 18.8 0.4 0 116.28 45
STRIP LeftWall_917 11 11 19.2 0.4 0 118.73 45
STRIP LeftWall_917 11 11 19.6 0.4 0 121.18 45
STRIP LeftWall_917 11 11 20 0.4 0 123.62 45
STRIP LeftWall_917 11 11 20.4 0.4 0 126.07 45
STRIP LeftWall_917 11 11 20.8 0.4 0 128.52 45
STRIP LeftWall_917 11 11 21.2 0.4 0 130.97 45
STRIP LeftWall_917 11 11 21.6 0.4 0 133.42 45
STRIP LeftWall_917 11 11 22 0.4 0 135.86 45
STRIP LeftWall_917 11 11 22.4 0.4 0 138.31 45
STRIP LeftWall_917 11 11 22.8 0.4 0 140.76 45
STRIP LeftWall_917 11 11 23.2 0.4 0 143.21 45
STRIP LeftWall_917 11 11 23.6 0.4 0 145.66 45
STRIP LeftWall_917 11 11 24 0.4 0 148.1 45
STRIP LeftWall_917 11 11 24.4 0.4 0 150.55 45
STRIP LeftWall_917 11 11 24.8 0.4 0 153 45
STRIP LeftWall_917 11 11 25.2 0.4 0 155.45 45
STRIP LeftWall_917 11 11 25.6 0.4 0 157.9 45
STRIP LeftWall_917 11 11 26 0.4 0 160.34 45
STRIP LeftWall_917 11 11 26.4 0.4 0 162.79 45
STRIP LeftWall_917 11 11 26.8 0.4 0 165.24 45
STRIP LeftWall_917 11 11 27.2 0.4 0 167.69 45
STRIP LeftWall_917 11 11 27.6 0.4 0 170.14 45
STRIP LeftWall_917 11 11 28 0.4 0 172.58 45
STRIP LeftWall_917 11 11 28.4 0.4 0 175.03 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917 11 11 28.8 0.4 0 177.48 45
STRIP LeftWall_917 11 11 29.2 0.4 0 179.93 45
STRIP LeftWall_917 11 11 29.6 0.4 0 182.38 45

* 7: Defining Steps

STEP Stepn.0Condizioniiiniziali_924
CHANGE Coltredeiritica_2_905_L_0 U-FRICT=24.791 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-FRICT=24.791 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KA=0.409 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KP=3.185 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KA=0.409 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KP=3.185 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-FRICT=29.256 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-FRICT=29.256 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KA=0.343 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KP=4.102 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KA=0.343 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KP=4.102 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-COHE=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-ADHES=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-COHE=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-COHE=80 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-COHE=80 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-ADHES=0 LeftWall_917
SETWALL LeftWall_917
GEOM 0 0
SURCHARGE 0 0 0 0
WATER -30 0 -14.5 0 0
ADD LeftWallElement_1092
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.1Fasediscavo1-Fase1_935
SETWALL LeftWall_917
GEOM 0 -4.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.2Fasediscavo1-Fase2_953
SETWALL LeftWall_917
GEOM 0 -4.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -14.5 0 0
ADD Tirantiesistenti+587.00_965
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.3Fasediscavo2-Fase1_973
SETWALL LeftWall_917
GEOM 0 -7.5
SURCHARGE 0 0 0 -6.25
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.4Fasediscavo2-Fase2_991
SETWALL LeftWall_917
GEOM 0 -7.5
SURCHARGE 0 0 0 -6.25
WATER -30 0 -14.5 0 0
ADD Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.5Fasefinalediscavoes_1011
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.6Primotirantenuovo_1029
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
ADD TirantinuoviT3_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



```
STEP Stepn.7Secondotirantenuovo_1049
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
ADD TirantinuoviT1_3735
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage8Rilasciotirantiesist_3737
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
REMOVE Tirantiesistenti+587.00_965 Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage9Scavodiprogetto_33947
SETWALL LeftWall_917
GEOM 0 -11.2
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage10Sisma_5719
SETWALL LeftWall_917
GEOM 0 -11.2
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
** SUBINCREMENT LOGIC - active since June 2019
    SUBINCREMENTS 5
ENDSTEP
```

12.5 Design Assumption : NTC2018: SISMICA STR - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: NTC2018: SISMICA STR
* Time:mercoledì 14 dicembre 2022 10:41:12
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_917 0 -14.5 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_917 -14.5 0 1 0
SOIL 0_R LeftWall_917 -14.5 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Coltredetritica_2_905_L_0)
*
LDATA Coltredetritica_2_905_L_0 25 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 18 10 10
PERMEABILITY 1E-05
RESISTANCE 0 30 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 30000 48000
ENDL
*
* Soil Profile (Marnaarenacea_8_906_L_0)
*
LDATA Marnaarenacea_8_906_L_0 -3 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 21 13 10
PERMEABILITY 0.0001
RESISTANCE 100 35 0 0 0
TZDATA LINEAR 20000 0 30 0.5 0
KSCALE 0 0
YOUNG 1E+06 1.6E+06
ENDL
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

```
* 5: Defining structural materials
* Rebar material: 54 Name=Strands 270 ksi E=200100000 kPa
MATERIAL Strands270ksi_54 2.001E+08
* Concrete material: 1093 Name=C20/25 E=29962000 kPa
MATERIAL C2025_1093 2.9962E+07
* Steel material: 43 Name=Fe510 E=206000200 kPa
MATERIAL Fe510_43 2.06E+08

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later
BEAM LeftWallElement_1092 LeftWall_917 -14.5 0 Fe510_43 0.080792 0.018495 4.3946E-05 1.4241 00 00 0

* 6.2: Supports
WIRE Tirantiesistenti+587.00_965 LeftWall_917 -4 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+584.00_1003 LeftWall_917 -7 Strands270ksi_54 1.9841E-05 62.5 15 0 0
WIRE TirantinuooviT3_3643 LeftWall_917 -9 Strands270ksi_54 1.9501E-05 62.5 15 0 0
WIRE TirantinuooviT1_3735 LeftWall_917 -2 Strands270ksi_54 1.611E-05 62.5 15 0 0

* 6.3: Strips

* (slope contribution)
STRIP LeftWall_917 1 1 0 0.4 0 1.224 45
STRIP LeftWall_917 1 1 0.4 0.4 0 3.672 45
STRIP LeftWall_917 1 1 0.8 0.4 0 6.12 45
STRIP LeftWall_917 1 1 1.2 0.4 0 8.568 45
STRIP LeftWall_917 1 1 1.6 0.4 0 11.016 45
STRIP LeftWall_917 1 1 2 0.4 0 13.464 45
STRIP LeftWall_917 1 1 2.4 0.4 0 15.912 45
STRIP LeftWall_917 1 1 2.8 0.4 0 18.36 45
STRIP LeftWall_917 1 1 3.2 0.4 0 20.808 45
STRIP LeftWall_917 1 1 3.6 0.4 0 23.256 45
STRIP LeftWall_917 1 1 4 0.4 0 25.704 45
STRIP LeftWall_917 1 1 4.4 0.4 0 28.152 45
STRIP LeftWall_917 1 1 4.8 0.4 0 30.6 45
STRIP LeftWall_917 1 1 5.2 0.4 0 33.048 45
STRIP LeftWall_917 1 1 5.6 0.4 0 35.496 45
STRIP LeftWall_917 1 1 6 0.4 0 37.944 45
STRIP LeftWall_917 1 1 6.4 0.4 0 40.392 45
STRIP LeftWall_917 1 1 6.8 0.4 0 42.84 45
STRIP LeftWall_917 1 1 7.2 0.4 0 45.288 45
STRIP LeftWall_917 1 1 7.6 0.4 0 47.736 45
STRIP LeftWall_917 1 1 8 0.4 0 50.184 45
STRIP LeftWall_917 1 1 8.4 0.4 0 52.632 45
STRIP LeftWall_917 1 1 8.8 0.4 0 55.08 45
STRIP LeftWall_917 1 1 9.2 0.4 0 57.528 45
STRIP LeftWall_917 1 1 9.6 0.4 0 59.976 45
STRIP LeftWall_917 1 1 10 0.4 0 62.424 45
STRIP LeftWall_917 1 1 10.4 0.4 0 64.872 45
STRIP LeftWall_917 1 1 10.8 0.4 0 67.32 45
STRIP LeftWall_917 1 1 11.2 0.4 0 69.768 45
STRIP LeftWall_917 1 1 11.6 0.4 0 72.216 45
STRIP LeftWall_917 1 1 12 0.4 0 74.664 45
STRIP LeftWall_917 1 1 12.4 0.4 0 77.112 45
STRIP LeftWall_917 1 1 12.8 0.4 0 79.56 45
STRIP LeftWall_917 1 1 13.2 0.4 0 82.008 45
STRIP LeftWall_917 1 1 13.6 0.4 0 84.456 45
STRIP LeftWall_917 1 1 14 0.4 0 86.904 45
STRIP LeftWall_917 1 1 14.4 0.4 0 89.352 45
STRIP LeftWall_917 1 1 14.8 0.4 0 91.8 45
STRIP LeftWall_917 1 1 15.2 0.4 0 94.248 45
STRIP LeftWall_917 1 1 15.6 0.4 0 96.696 45
STRIP LeftWall_917 1 1 16 0.4 0 99.144 45
STRIP LeftWall_917 1 1 16.4 0.4 0 101.59 45
STRIP LeftWall_917 1 1 16.8 0.4 0 104.04 45
STRIP LeftWall_917 1 1 17.2 0.4 0 106.49 45
STRIP LeftWall_917 1 1 17.6 0.4 0 108.94 45
STRIP LeftWall_917 1 1 18 0.4 0 111.38 45
STRIP LeftWall_917 1 1 18.4 0.4 0 113.83 45
STRIP LeftWall_917 1 1 18.8 0.4 0 116.28 45
STRIP LeftWall_917 1 1 19.2 0.4 0 118.73 45
STRIP LeftWall_917 1 1 19.6 0.4 0 121.18 45
STRIP LeftWall_917 1 1 20 0.4 0 123.62 45
STRIP LeftWall_917 1 1 20.4 0.4 0 126.07 45
STRIP LeftWall_917 1 1 20.8 0.4 0 128.52 45
STRIP LeftWall_917 1 1 21.2 0.4 0 130.97 45
STRIP LeftWall_917 1 1 21.6 0.4 0 133.42 45
STRIP LeftWall_917 1 1 22 0.4 0 135.86 45
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP	LeftWall_917	1	1	22.4	0.4	0	138.31	45
STRIP	LeftWall_917	1	1	22.8	0.4	0	140.76	45
STRIP	LeftWall_917	1	1	23.2	0.4	0	143.21	45
STRIP	LeftWall_917	1	1	23.6	0.4	0	145.66	45
STRIP	LeftWall_917	1	1	24	0.4	0	148.1	45
STRIP	LeftWall_917	1	1	24.4	0.4	0	150.55	45
STRIP	LeftWall_917	1	1	24.8	0.4	0	153	45
STRIP	LeftWall_917	1	1	25.2	0.4	0	155.45	45
STRIP	LeftWall_917	1	1	25.6	0.4	0	157.9	45
STRIP	LeftWall_917	1	1	26	0.4	0	160.34	45
STRIP	LeftWall_917	1	1	26.4	0.4	0	162.79	45
STRIP	LeftWall_917	1	1	26.8	0.4	0	165.24	45
STRIP	LeftWall_917	1	1	27.2	0.4	0	167.69	45
STRIP	LeftWall_917	1	1	27.6	0.4	0	170.14	45
STRIP	LeftWall_917	1	1	28	0.4	0	172.58	45
STRIP	LeftWall_917	1	1	28.4	0.4	0	175.03	45
STRIP	LeftWall_917	1	1	28.8	0.4	0	177.48	45
STRIP	LeftWall_917	1	1	29.2	0.4	0	179.93	45
STRIP	LeftWall_917	1	1	29.6	0.4	0	182.38	45
STRIP	LeftWall_917	2	2	0	0.4	0	1.224	45
STRIP	LeftWall_917	2	2	0.4	0.4	0	3.672	45
STRIP	LeftWall_917	2	2	0.8	0.4	0	6.12	45
STRIP	LeftWall_917	2	2	1.2	0.4	0	8.568	45
STRIP	LeftWall_917	2	2	1.6	0.4	0	11.016	45
STRIP	LeftWall_917	2	2	2	0.4	0	13.464	45
STRIP	LeftWall_917	2	2	2.4	0.4	0	15.912	45
STRIP	LeftWall_917	2	2	2.8	0.4	0	18.36	45
STRIP	LeftWall_917	2	2	3.2	0.4	0	20.808	45
STRIP	LeftWall_917	2	2	3.6	0.4	0	23.256	45
STRIP	LeftWall_917	2	2	4	0.4	0	25.704	45
STRIP	LeftWall_917	2	2	4.4	0.4	0	28.152	45
STRIP	LeftWall_917	2	2	4.8	0.4	0	30.6	45
STRIP	LeftWall_917	2	2	5.2	0.4	0	33.048	45
STRIP	LeftWall_917	2	2	5.6	0.4	0	35.496	45
STRIP	LeftWall_917	2	2	6	0.4	0	37.944	45
STRIP	LeftWall_917	2	2	6.4	0.4	0	40.392	45
STRIP	LeftWall_917	2	2	6.8	0.4	0	42.84	45
STRIP	LeftWall_917	2	2	7.2	0.4	0	45.288	45
STRIP	LeftWall_917	2	2	7.6	0.4	0	47.736	45
STRIP	LeftWall_917	2	2	8	0.4	0	50.184	45
STRIP	LeftWall_917	2	2	8.4	0.4	0	52.632	45
STRIP	LeftWall_917	2	2	8.8	0.4	0	55.08	45
STRIP	LeftWall_917	2	2	9.2	0.4	0	57.528	45
STRIP	LeftWall_917	2	2	9.6	0.4	0	59.976	45
STRIP	LeftWall_917	2	2	10	0.4	0	62.424	45
STRIP	LeftWall_917	2	2	10.4	0.4	0	64.872	45
STRIP	LeftWall_917	2	2	10.8	0.4	0	67.32	45
STRIP	LeftWall_917	2	2	11.2	0.4	0	69.768	45
STRIP	LeftWall_917	2	2	11.6	0.4	0	72.216	45
STRIP	LeftWall_917	2	2	12	0.4	0	74.664	45
STRIP	LeftWall_917	2	2	12.4	0.4	0	77.112	45
STRIP	LeftWall_917	2	2	12.8	0.4	0	79.56	45
STRIP	LeftWall_917	2	2	13.2	0.4	0	82.008	45
STRIP	LeftWall_917	2	2	13.6	0.4	0	84.456	45
STRIP	LeftWall_917	2	2	14	0.4	0	86.904	45
STRIP	LeftWall_917	2	2	14.4	0.4	0	89.352	45
STRIP	LeftWall_917	2	2	14.8	0.4	0	91.8	45
STRIP	LeftWall_917	2	2	15.2	0.4	0	94.248	45
STRIP	LeftWall_917	2	2	15.6	0.4	0	96.696	45
STRIP	LeftWall_917	2	2	16	0.4	0	99.144	45
STRIP	LeftWall_917	2	2	16.4	0.4	0	101.59	45
STRIP	LeftWall_917	2	2	16.8	0.4	0	104.04	45
STRIP	LeftWall_917	2	2	17.2	0.4	0	106.49	45
STRIP	LeftWall_917	2	2	17.6	0.4	0	108.94	45
STRIP	LeftWall_917	2	2	18	0.4	0	111.38	45
STRIP	LeftWall_917	2	2	18.4	0.4	0	113.83	45
STRIP	LeftWall_917	2	2	18.8	0.4	0	116.28	45
STRIP	LeftWall_917	2	2	19.2	0.4	0	118.73	45
STRIP	LeftWall_917	2	2	19.6	0.4	0	121.18	45
STRIP	LeftWall_917	2	2	20	0.4	0	123.62	45
STRIP	LeftWall_917	2	2	20.4	0.4	0	126.07	45
STRIP	LeftWall_917	2	2	20.8	0.4	0	128.52	45
STRIP	LeftWall_917	2	2	21.2	0.4	0	130.97	45
STRIP	LeftWall_917	2	2	21.6	0.4	0	133.42	45
STRIP	LeftWall_917	2	2	22	0.4	0	135.86	45
STRIP	LeftWall_917	2	2	22.4	0.4	0	138.31	45
STRIP	LeftWall_917	2	2	22.8	0.4	0	140.76	45
STRIP	LeftWall_917	2	2	23.2	0.4	0	143.21	45
STRIP	LeftWall_917	2	2	23.6	0.4	0	145.66	45
STRIP	LeftWall_917	2	2	24	0.4	0	148.1	45
STRIP	LeftWall_917	2	2	24.4	0.4	0	150.55	45
STRIP	LeftWall_917	2	2	24.8	0.4	0	153	45
STRIP	LeftWall_917	2	2	25.2	0.4	0	155.45	45
STRIP	LeftWall_917	2	2	25.6	0.4	0	157.9	45
STRIP	LeftWall_917	2	2	26	0.4	0	160.34	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 2 2 26.4 0.4 0 162.79 45
STRIP LeftWall_917 2 2 26.8 0.4 0 165.24 45
STRIP LeftWall_917 2 2 27.2 0.4 0 167.69 45
STRIP LeftWall_917 2 2 27.6 0.4 0 170.14 45
STRIP LeftWall_917 2 2 28 0.4 0 172.58 45
STRIP LeftWall_917 2 2 28.4 0.4 0 175.03 45
STRIP LeftWall_917 2 2 28.8 0.4 0 177.48 45
STRIP LeftWall_917 2 2 29.2 0.4 0 179.93 45
STRIP LeftWall_917 2 2 29.6 0.4 0 182.38 45
STRIP LeftWall_917 3 3 0 0.4 0 1.224 45
STRIP LeftWall_917 3 3 0.4 0.4 0 3.672 45
STRIP LeftWall_917 3 3 0.8 0.4 0 6.12 45
STRIP LeftWall_917 3 3 1.2 0.4 0 8.568 45
STRIP LeftWall_917 3 3 1.6 0.4 0 11.016 45
STRIP LeftWall_917 3 3 2 0.4 0 13.464 45
STRIP LeftWall_917 3 3 2.4 0.4 0 15.912 45
STRIP LeftWall_917 3 3 2.8 0.4 0 18.36 45
STRIP LeftWall_917 3 3 3.2 0.4 0 20.808 45
STRIP LeftWall_917 3 3 3.6 0.4 0 23.256 45
STRIP LeftWall_917 3 3 4 0.4 0 25.704 45
STRIP LeftWall_917 3 3 4.4 0.4 0 28.152 45
STRIP LeftWall_917 3 3 4.8 0.4 0 30.6 45
STRIP LeftWall_917 3 3 5.2 0.4 0 33.048 45
STRIP LeftWall_917 3 3 5.6 0.4 0 35.496 45
STRIP LeftWall_917 3 3 6 0.4 0 37.944 45
STRIP LeftWall_917 3 3 6.4 0.4 0 40.392 45
STRIP LeftWall_917 3 3 6.8 0.4 0 42.84 45
STRIP LeftWall_917 3 3 7.2 0.4 0 45.288 45
STRIP LeftWall_917 3 3 7.6 0.4 0 47.736 45
STRIP LeftWall_917 3 3 8 0.4 0 50.184 45
STRIP LeftWall_917 3 3 8.4 0.4 0 52.632 45
STRIP LeftWall_917 3 3 8.8 0.4 0 55.08 45
STRIP LeftWall_917 3 3 9.2 0.4 0 57.528 45
STRIP LeftWall_917 3 3 9.6 0.4 0 59.976 45
STRIP LeftWall_917 3 3 10 0.4 0 62.424 45
STRIP LeftWall_917 3 3 10.4 0.4 0 64.872 45
STRIP LeftWall_917 3 3 10.8 0.4 0 67.32 45
STRIP LeftWall_917 3 3 11.2 0.4 0 69.768 45
STRIP LeftWall_917 3 3 11.6 0.4 0 72.216 45
STRIP LeftWall_917 3 3 12 0.4 0 74.664 45
STRIP LeftWall_917 3 3 12.4 0.4 0 77.112 45
STRIP LeftWall_917 3 3 12.8 0.4 0 79.56 45
STRIP LeftWall_917 3 3 13.2 0.4 0 82.008 45
STRIP LeftWall_917 3 3 13.6 0.4 0 84.456 45
STRIP LeftWall_917 3 3 14 0.4 0 86.904 45
STRIP LeftWall_917 3 3 14.4 0.4 0 89.352 45
STRIP LeftWall_917 3 3 14.8 0.4 0 91.8 45
STRIP LeftWall_917 3 3 15.2 0.4 0 94.248 45
STRIP LeftWall_917 3 3 15.6 0.4 0 96.696 45
STRIP LeftWall_917 3 3 16 0.4 0 99.144 45
STRIP LeftWall_917 3 3 16.4 0.4 0 101.59 45
STRIP LeftWall_917 3 3 16.8 0.4 0 104.04 45
STRIP LeftWall_917 3 3 17.2 0.4 0 106.49 45
STRIP LeftWall_917 3 3 17.6 0.4 0 108.94 45
STRIP LeftWall_917 3 3 18 0.4 0 111.38 45
STRIP LeftWall_917 3 3 18.4 0.4 0 113.83 45
STRIP LeftWall_917 3 3 18.8 0.4 0 116.28 45
STRIP LeftWall_917 3 3 19.2 0.4 0 118.73 45
STRIP LeftWall_917 3 3 19.6 0.4 0 121.18 45
STRIP LeftWall_917 3 3 20 0.4 0 123.62 45
STRIP LeftWall_917 3 3 20.4 0.4 0 126.07 45
STRIP LeftWall_917 3 3 20.8 0.4 0 128.52 45
STRIP LeftWall_917 3 3 21.2 0.4 0 130.97 45
STRIP LeftWall_917 3 3 21.6 0.4 0 133.42 45
STRIP LeftWall_917 3 3 22 0.4 0 135.86 45
STRIP LeftWall_917 3 3 22.4 0.4 0 138.31 45
STRIP LeftWall_917 3 3 22.8 0.4 0 140.76 45
STRIP LeftWall_917 3 3 23.2 0.4 0 143.21 45
STRIP LeftWall_917 3 3 23.6 0.4 0 145.66 45
STRIP LeftWall_917 3 3 24 0.4 0 148.1 45
STRIP LeftWall_917 3 3 24.4 0.4 0 150.55 45
STRIP LeftWall_917 3 3 24.8 0.4 0 153 45
STRIP LeftWall_917 3 3 25.2 0.4 0 155.45 45
STRIP LeftWall_917 3 3 25.6 0.4 0 157.9 45
STRIP LeftWall_917 3 3 26 0.4 0 160.34 45
STRIP LeftWall_917 3 3 26.4 0.4 0 162.79 45
STRIP LeftWall_917 3 3 26.8 0.4 0 165.24 45
STRIP LeftWall_917 3 3 27.2 0.4 0 167.69 45
STRIP LeftWall_917 3 3 27.6 0.4 0 170.14 45
STRIP LeftWall_917 3 3 28 0.4 0 172.58 45
STRIP LeftWall_917 3 3 28.4 0.4 0 175.03 45
STRIP LeftWall_917 3 3 28.8 0.4 0 177.48 45
STRIP LeftWall_917 3 3 29.2 0.4 0 179.93 45
STRIP LeftWall_917 3 3 29.6 0.4 0 182.38 45
STRIP LeftWall_917 4 4 0 0.4 0 1.224 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	4	4	0.4	0.4	0	3.672	45
STRIP LeftWall_917	4	4	0.8	0.4	0	6.12	45
STRIP LeftWall_917	4	4	1.2	0.4	0	8.568	45
STRIP LeftWall_917	4	4	1.6	0.4	0	11.016	45
STRIP LeftWall_917	4	4	2	0.4	0	13.464	45
STRIP LeftWall_917	4	4	2.4	0.4	0	15.912	45
STRIP LeftWall_917	4	4	2.8	0.4	0	18.36	45
STRIP LeftWall_917	4	4	3.2	0.4	0	20.808	45
STRIP LeftWall_917	4	4	3.6	0.4	0	23.256	45
STRIP LeftWall_917	4	4	4	0.4	0	25.704	45
STRIP LeftWall_917	4	4	4.4	0.4	0	28.152	45
STRIP LeftWall_917	4	4	4.8	0.4	0	30.6	45
STRIP LeftWall_917	4	4	5.2	0.4	0	33.048	45
STRIP LeftWall_917	4	4	5.6	0.4	0	35.496	45
STRIP LeftWall_917	4	4	6	0.4	0	37.944	45
STRIP LeftWall_917	4	4	6.4	0.4	0	40.392	45
STRIP LeftWall_917	4	4	6.8	0.4	0	42.84	45
STRIP LeftWall_917	4	4	7.2	0.4	0	45.288	45
STRIP LeftWall_917	4	4	7.6	0.4	0	47.736	45
STRIP LeftWall_917	4	4	8	0.4	0	50.184	45
STRIP LeftWall_917	4	4	8.4	0.4	0	52.632	45
STRIP LeftWall_917	4	4	8.8	0.4	0	55.08	45
STRIP LeftWall_917	4	4	9.2	0.4	0	57.528	45
STRIP LeftWall_917	4	4	9.6	0.4	0	59.976	45
STRIP LeftWall_917	4	4	10	0.4	0	62.424	45
STRIP LeftWall_917	4	4	10.4	0.4	0	64.872	45
STRIP LeftWall_917	4	4	10.8	0.4	0	67.32	45
STRIP LeftWall_917	4	4	11.2	0.4	0	69.768	45
STRIP LeftWall_917	4	4	11.6	0.4	0	72.216	45
STRIP LeftWall_917	4	4	12	0.4	0	74.664	45
STRIP LeftWall_917	4	4	12.4	0.4	0	77.112	45
STRIP LeftWall_917	4	4	12.8	0.4	0	79.56	45
STRIP LeftWall_917	4	4	13.2	0.4	0	82.008	45
STRIP LeftWall_917	4	4	13.6	0.4	0	84.456	45
STRIP LeftWall_917	4	4	14	0.4	0	86.904	45
STRIP LeftWall_917	4	4	14.4	0.4	0	89.352	45
STRIP LeftWall_917	4	4	14.8	0.4	0	91.8	45
STRIP LeftWall_917	4	4	15.2	0.4	0	94.248	45
STRIP LeftWall_917	4	4	15.6	0.4	0	96.696	45
STRIP LeftWall_917	4	4	16	0.4	0	99.144	45
STRIP LeftWall_917	4	4	16.4	0.4	0	101.59	45
STRIP LeftWall_917	4	4	16.8	0.4	0	104.04	45
STRIP LeftWall_917	4	4	17.2	0.4	0	106.49	45
STRIP LeftWall_917	4	4	17.6	0.4	0	108.94	45
STRIP LeftWall_917	4	4	18	0.4	0	111.38	45
STRIP LeftWall_917	4	4	18.4	0.4	0	113.83	45
STRIP LeftWall_917	4	4	18.8	0.4	0	116.28	45
STRIP LeftWall_917	4	4	19.2	0.4	0	118.73	45
STRIP LeftWall_917	4	4	19.6	0.4	0	121.18	45
STRIP LeftWall_917	4	4	20	0.4	0	123.62	45
STRIP LeftWall_917	4	4	20.4	0.4	0	126.07	45
STRIP LeftWall_917	4	4	20.8	0.4	0	128.52	45
STRIP LeftWall_917	4	4	21.2	0.4	0	130.97	45
STRIP LeftWall_917	4	4	21.6	0.4	0	133.42	45
STRIP LeftWall_917	4	4	22	0.4	0	135.86	45
STRIP LeftWall_917	4	4	22.4	0.4	0	138.31	45
STRIP LeftWall_917	4	4	22.8	0.4	0	140.76	45
STRIP LeftWall_917	4	4	23.2	0.4	0	143.21	45
STRIP LeftWall_917	4	4	23.6	0.4	0	145.66	45
STRIP LeftWall_917	4	4	24	0.4	0	148.1	45
STRIP LeftWall_917	4	4	24.4	0.4	0	150.55	45
STRIP LeftWall_917	4	4	24.8	0.4	0	153	45
STRIP LeftWall_917	4	4	25.2	0.4	0	155.45	45
STRIP LeftWall_917	4	4	25.6	0.4	0	157.9	45
STRIP LeftWall_917	4	4	26	0.4	0	160.34	45
STRIP LeftWall_917	4	4	26.4	0.4	0	162.79	45
STRIP LeftWall_917	4	4	26.8	0.4	0	165.24	45
STRIP LeftWall_917	4	4	27.2	0.4	0	167.69	45
STRIP LeftWall_917	4	4	27.6	0.4	0	170.14	45
STRIP LeftWall_917	4	4	28	0.4	0	172.58	45
STRIP LeftWall_917	4	4	28.4	0.4	0	175.03	45
STRIP LeftWall_917	4	4	28.8	0.4	0	177.48	45
STRIP LeftWall_917	4	4	29.2	0.4	0	179.93	45
STRIP LeftWall_917	4	4	29.6	0.4	0	182.38	45
STRIP LeftWall_917	5	5	0	0.4	0	1.224	45
STRIP LeftWall_917	5	5	0.4	0.4	0	3.672	45
STRIP LeftWall_917	5	5	0.8	0.4	0	6.12	45
STRIP LeftWall_917	5	5	1.2	0.4	0	8.568	45
STRIP LeftWall_917	5	5	1.6	0.4	0	11.016	45
STRIP LeftWall_917	5	5	2	0.4	0	13.464	45
STRIP LeftWall_917	5	5	2.4	0.4	0	15.912	45
STRIP LeftWall_917	5	5	2.8	0.4	0	18.36	45
STRIP LeftWall_917	5	5	3.2	0.4	0	20.808	45
STRIP LeftWall_917	5	5	3.6	0.4	0	23.256	45
STRIP LeftWall_917	5	5	4	0.4	0	25.704	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	5	5	4.4	0.4	0	28.152	45
STRIP LeftWall_917	5	5	4.8	0.4	0	30.6	45
STRIP LeftWall_917	5	5	5.2	0.4	0	33.048	45
STRIP LeftWall_917	5	5	5.6	0.4	0	35.496	45
STRIP LeftWall_917	5	5	6	0.4	0	37.944	45
STRIP LeftWall_917	5	5	6.4	0.4	0	40.392	45
STRIP LeftWall_917	5	5	6.8	0.4	0	42.84	45
STRIP LeftWall_917	5	5	7.2	0.4	0	45.288	45
STRIP LeftWall_917	5	5	7.6	0.4	0	47.736	45
STRIP LeftWall_917	5	5	8	0.4	0	50.184	45
STRIP LeftWall_917	5	5	8.4	0.4	0	52.632	45
STRIP LeftWall_917	5	5	8.8	0.4	0	55.08	45
STRIP LeftWall_917	5	5	9.2	0.4	0	57.528	45
STRIP LeftWall_917	5	5	9.6	0.4	0	59.976	45
STRIP LeftWall_917	5	5	10	0.4	0	62.424	45
STRIP LeftWall_917	5	5	10.4	0.4	0	64.872	45
STRIP LeftWall_917	5	5	10.8	0.4	0	67.32	45
STRIP LeftWall_917	5	5	11.2	0.4	0	69.768	45
STRIP LeftWall_917	5	5	11.6	0.4	0	72.216	45
STRIP LeftWall_917	5	5	12	0.4	0	74.664	45
STRIP LeftWall_917	5	5	12.4	0.4	0	77.112	45
STRIP LeftWall_917	5	5	12.8	0.4	0	79.56	45
STRIP LeftWall_917	5	5	13.2	0.4	0	82.008	45
STRIP LeftWall_917	5	5	13.6	0.4	0	84.456	45
STRIP LeftWall_917	5	5	14	0.4	0	86.904	45
STRIP LeftWall_917	5	5	14.4	0.4	0	89.352	45
STRIP LeftWall_917	5	5	14.8	0.4	0	91.8	45
STRIP LeftWall_917	5	5	15.2	0.4	0	94.248	45
STRIP LeftWall_917	5	5	15.6	0.4	0	96.696	45
STRIP LeftWall_917	5	5	16	0.4	0	99.144	45
STRIP LeftWall_917	5	5	16.4	0.4	0	101.59	45
STRIP LeftWall_917	5	5	16.8	0.4	0	104.04	45
STRIP LeftWall_917	5	5	17.2	0.4	0	106.49	45
STRIP LeftWall_917	5	5	17.6	0.4	0	108.94	45
STRIP LeftWall_917	5	5	18	0.4	0	111.38	45
STRIP LeftWall_917	5	5	18.4	0.4	0	113.83	45
STRIP LeftWall_917	5	5	18.8	0.4	0	116.28	45
STRIP LeftWall_917	5	5	19.2	0.4	0	118.73	45
STRIP LeftWall_917	5	5	19.6	0.4	0	121.18	45
STRIP LeftWall_917	5	5	20	0.4	0	123.62	45
STRIP LeftWall_917	5	5	20.4	0.4	0	126.07	45
STRIP LeftWall_917	5	5	20.8	0.4	0	128.52	45
STRIP LeftWall_917	5	5	21.2	0.4	0	130.97	45
STRIP LeftWall_917	5	5	21.6	0.4	0	133.42	45
STRIP LeftWall_917	5	5	22	0.4	0	135.86	45
STRIP LeftWall_917	5	5	22.4	0.4	0	138.31	45
STRIP LeftWall_917	5	5	22.8	0.4	0	140.76	45
STRIP LeftWall_917	5	5	23.2	0.4	0	143.21	45
STRIP LeftWall_917	5	5	23.6	0.4	0	145.66	45
STRIP LeftWall_917	5	5	24	0.4	0	148.1	45
STRIP LeftWall_917	5	5	24.4	0.4	0	150.55	45
STRIP LeftWall_917	5	5	24.8	0.4	0	153	45
STRIP LeftWall_917	5	5	25.2	0.4	0	155.45	45
STRIP LeftWall_917	5	5	25.6	0.4	0	157.9	45
STRIP LeftWall_917	5	5	26	0.4	0	160.34	45
STRIP LeftWall_917	5	5	26.4	0.4	0	162.79	45
STRIP LeftWall_917	5	5	26.8	0.4	0	165.24	45
STRIP LeftWall_917	5	5	27.2	0.4	0	167.69	45
STRIP LeftWall_917	5	5	27.6	0.4	0	170.14	45
STRIP LeftWall_917	5	5	28	0.4	0	172.58	45
STRIP LeftWall_917	5	5	28.4	0.4	0	175.03	45
STRIP LeftWall_917	5	5	28.8	0.4	0	177.48	45
STRIP LeftWall_917	5	5	29.2	0.4	0	179.93	45
STRIP LeftWall_917	5	5	29.6	0.4	0	182.38	45
STRIP LeftWall_917	6	6	0	0.4	0	1.224	45
STRIP LeftWall_917	6	6	0.4	0.4	0	3.672	45
STRIP LeftWall_917	6	6	0.8	0.4	0	6.12	45
STRIP LeftWall_917	6	6	1.2	0.4	0	8.568	45
STRIP LeftWall_917	6	6	1.6	0.4	0	11.016	45
STRIP LeftWall_917	6	6	2	0.4	0	13.464	45
STRIP LeftWall_917	6	6	2.4	0.4	0	15.912	45
STRIP LeftWall_917	6	6	2.8	0.4	0	18.36	45
STRIP LeftWall_917	6	6	3.2	0.4	0	20.808	45
STRIP LeftWall_917	6	6	3.6	0.4	0	23.256	45
STRIP LeftWall_917	6	6	4	0.4	0	25.704	45
STRIP LeftWall_917	6	6	4.4	0.4	0	28.152	45
STRIP LeftWall_917	6	6	4.8	0.4	0	30.6	45
STRIP LeftWall_917	6	6	5.2	0.4	0	33.048	45
STRIP LeftWall_917	6	6	5.6	0.4	0	35.496	45
STRIP LeftWall_917	6	6	6	0.4	0	37.944	45
STRIP LeftWall_917	6	6	6.4	0.4	0	40.392	45
STRIP LeftWall_917	6	6	6.8	0.4	0	42.84	45
STRIP LeftWall_917	6	6	7.2	0.4	0	45.288	45
STRIP LeftWall_917	6	6	7.6	0.4	0	47.736	45
STRIP LeftWall_917	6	6	8	0.4	0	50.184	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 6 6 8.4 0.4 0 52.632 45
STRIP LeftWall_917 6 6 8.8 0.4 0 55.08 45
STRIP LeftWall_917 6 6 9.2 0.4 0 57.528 45
STRIP LeftWall_917 6 6 9.6 0.4 0 59.976 45
STRIP LeftWall_917 6 6 10 0.4 0 62.424 45
STRIP LeftWall_917 6 6 10.4 0.4 0 64.872 45
STRIP LeftWall_917 6 6 10.8 0.4 0 67.32 45
STRIP LeftWall_917 6 6 11.2 0.4 0 69.768 45
STRIP LeftWall_917 6 6 11.6 0.4 0 72.216 45
STRIP LeftWall_917 6 6 12 0.4 0 74.664 45
STRIP LeftWall_917 6 6 12.4 0.4 0 77.112 45
STRIP LeftWall_917 6 6 12.8 0.4 0 79.56 45
STRIP LeftWall_917 6 6 13.2 0.4 0 82.008 45
STRIP LeftWall_917 6 6 13.6 0.4 0 84.456 45
STRIP LeftWall_917 6 6 14 0.4 0 86.904 45
STRIP LeftWall_917 6 6 14.4 0.4 0 89.352 45
STRIP LeftWall_917 6 6 14.8 0.4 0 91.8 45
STRIP LeftWall_917 6 6 15.2 0.4 0 94.248 45
STRIP LeftWall_917 6 6 15.6 0.4 0 96.696 45
STRIP LeftWall_917 6 6 16 0.4 0 99.144 45
STRIP LeftWall_917 6 6 16.4 0.4 0 101.59 45
STRIP LeftWall_917 6 6 16.8 0.4 0 104.04 45
STRIP LeftWall_917 6 6 17.2 0.4 0 106.49 45
STRIP LeftWall_917 6 6 17.6 0.4 0 108.94 45
STRIP LeftWall_917 6 6 18 0.4 0 111.38 45
STRIP LeftWall_917 6 6 18.4 0.4 0 113.83 45
STRIP LeftWall_917 6 6 18.8 0.4 0 116.28 45
STRIP LeftWall_917 6 6 19.2 0.4 0 118.73 45
STRIP LeftWall_917 6 6 19.6 0.4 0 121.18 45
STRIP LeftWall_917 6 6 20 0.4 0 123.62 45
STRIP LeftWall_917 6 6 20.4 0.4 0 126.07 45
STRIP LeftWall_917 6 6 20.8 0.4 0 128.52 45
STRIP LeftWall_917 6 6 21.2 0.4 0 130.97 45
STRIP LeftWall_917 6 6 21.6 0.4 0 133.42 45
STRIP LeftWall_917 6 6 22 0.4 0 135.86 45
STRIP LeftWall_917 6 6 22.4 0.4 0 138.31 45
STRIP LeftWall_917 6 6 22.8 0.4 0 140.76 45
STRIP LeftWall_917 6 6 23.2 0.4 0 143.21 45
STRIP LeftWall_917 6 6 23.6 0.4 0 145.66 45
STRIP LeftWall_917 6 6 24 0.4 0 148.1 45
STRIP LeftWall_917 6 6 24.4 0.4 0 150.55 45
STRIP LeftWall_917 6 6 24.8 0.4 0 153 45
STRIP LeftWall_917 6 6 25.2 0.4 0 155.45 45
STRIP LeftWall_917 6 6 25.6 0.4 0 157.9 45
STRIP LeftWall_917 6 6 26 0.4 0 160.34 45
STRIP LeftWall_917 6 6 26.4 0.4 0 162.79 45
STRIP LeftWall_917 6 6 26.8 0.4 0 165.24 45
STRIP LeftWall_917 6 6 27.2 0.4 0 167.69 45
STRIP LeftWall_917 6 6 27.6 0.4 0 170.14 45
STRIP LeftWall_917 6 6 28 0.4 0 172.58 45
STRIP LeftWall_917 6 6 28.4 0.4 0 175.03 45
STRIP LeftWall_917 6 6 28.8 0.4 0 177.48 45
STRIP LeftWall_917 6 6 29.2 0.4 0 179.93 45
STRIP LeftWall_917 6 6 29.6 0.4 0 182.38 45
STRIP LeftWall_917 7 7 0 0.4 0 1.224 45
STRIP LeftWall_917 7 7 0.4 0.4 0 3.672 45
STRIP LeftWall_917 7 7 0.8 0.4 0 6.12 45
STRIP LeftWall_917 7 7 1.2 0.4 0 8.568 45
STRIP LeftWall_917 7 7 1.6 0.4 0 11.016 45
STRIP LeftWall_917 7 7 2 0.4 0 13.464 45
STRIP LeftWall_917 7 7 2.4 0.4 0 15.912 45
STRIP LeftWall_917 7 7 2.8 0.4 0 18.36 45
STRIP LeftWall_917 7 7 3.2 0.4 0 20.808 45
STRIP LeftWall_917 7 7 3.6 0.4 0 23.256 45
STRIP LeftWall_917 7 7 4 0.4 0 25.704 45
STRIP LeftWall_917 7 7 4.4 0.4 0 28.152 45
STRIP LeftWall_917 7 7 4.8 0.4 0 30.6 45
STRIP LeftWall_917 7 7 5.2 0.4 0 33.048 45
STRIP LeftWall_917 7 7 5.6 0.4 0 35.496 45
STRIP LeftWall_917 7 7 6 0.4 0 37.944 45
STRIP LeftWall_917 7 7 6.4 0.4 0 40.392 45
STRIP LeftWall_917 7 7 6.8 0.4 0 42.84 45
STRIP LeftWall_917 7 7 7.2 0.4 0 45.288 45
STRIP LeftWall_917 7 7 7.6 0.4 0 47.736 45
STRIP LeftWall_917 7 7 8 0.4 0 50.184 45
STRIP LeftWall_917 7 7 8.4 0.4 0 52.632 45
STRIP LeftWall_917 7 7 8.8 0.4 0 55.08 45
STRIP LeftWall_917 7 7 9.2 0.4 0 57.528 45
STRIP LeftWall_917 7 7 9.6 0.4 0 59.976 45
STRIP LeftWall_917 7 7 10 0.4 0 62.424 45
STRIP LeftWall_917 7 7 10.4 0.4 0 64.872 45
STRIP LeftWall_917 7 7 10.8 0.4 0 67.32 45
STRIP LeftWall_917 7 7 11.2 0.4 0 69.768 45
STRIP LeftWall_917 7 7 11.6 0.4 0 72.216 45
STRIP LeftWall_917 7 7 12 0.4 0 74.664 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP	LeftWall_917	7	7	12.4	0.4	0	77.112	45
STRIP	LeftWall_917	7	7	12.8	0.4	0	79.56	45
STRIP	LeftWall_917	7	7	13.2	0.4	0	82.008	45
STRIP	LeftWall_917	7	7	13.6	0.4	0	84.456	45
STRIP	LeftWall_917	7	7	14	0.4	0	86.904	45
STRIP	LeftWall_917	7	7	14.4	0.4	0	89.352	45
STRIP	LeftWall_917	7	7	14.8	0.4	0	91.8	45
STRIP	LeftWall_917	7	7	15.2	0.4	0	94.248	45
STRIP	LeftWall_917	7	7	15.6	0.4	0	96.696	45
STRIP	LeftWall_917	7	7	16	0.4	0	99.144	45
STRIP	LeftWall_917	7	7	16.4	0.4	0	101.59	45
STRIP	LeftWall_917	7	7	16.8	0.4	0	104.04	45
STRIP	LeftWall_917	7	7	17.2	0.4	0	106.49	45
STRIP	LeftWall_917	7	7	17.6	0.4	0	108.94	45
STRIP	LeftWall_917	7	7	18	0.4	0	111.38	45
STRIP	LeftWall_917	7	7	18.4	0.4	0	113.83	45
STRIP	LeftWall_917	7	7	18.8	0.4	0	116.28	45
STRIP	LeftWall_917	7	7	19.2	0.4	0	118.73	45
STRIP	LeftWall_917	7	7	19.6	0.4	0	121.18	45
STRIP	LeftWall_917	7	7	20	0.4	0	123.62	45
STRIP	LeftWall_917	7	7	20.4	0.4	0	126.07	45
STRIP	LeftWall_917	7	7	20.8	0.4	0	128.52	45
STRIP	LeftWall_917	7	7	21.2	0.4	0	130.97	45
STRIP	LeftWall_917	7	7	21.6	0.4	0	133.42	45
STRIP	LeftWall_917	7	7	22	0.4	0	135.86	45
STRIP	LeftWall_917	7	7	22.4	0.4	0	138.31	45
STRIP	LeftWall_917	7	7	22.8	0.4	0	140.76	45
STRIP	LeftWall_917	7	7	23.2	0.4	0	143.21	45
STRIP	LeftWall_917	7	7	23.6	0.4	0	145.66	45
STRIP	LeftWall_917	7	7	24	0.4	0	148.1	45
STRIP	LeftWall_917	7	7	24.4	0.4	0	150.55	45
STRIP	LeftWall_917	7	7	24.8	0.4	0	153	45
STRIP	LeftWall_917	7	7	25.2	0.4	0	155.45	45
STRIP	LeftWall_917	7	7	25.6	0.4	0	157.9	45
STRIP	LeftWall_917	7	7	26	0.4	0	160.34	45
STRIP	LeftWall_917	7	7	26.4	0.4	0	162.79	45
STRIP	LeftWall_917	7	7	26.8	0.4	0	165.24	45
STRIP	LeftWall_917	7	7	27.2	0.4	0	167.69	45
STRIP	LeftWall_917	7	7	27.6	0.4	0	170.14	45
STRIP	LeftWall_917	7	7	28	0.4	0	172.58	45
STRIP	LeftWall_917	7	7	28.4	0.4	0	175.03	45
STRIP	LeftWall_917	7	7	28.8	0.4	0	177.48	45
STRIP	LeftWall_917	7	7	29.2	0.4	0	179.93	45
STRIP	LeftWall_917	7	7	29.6	0.4	0	182.38	45
STRIP	LeftWall_917	8	8	0	0.4	0	1.224	45
STRIP	LeftWall_917	8	8	0.4	0.4	0	3.672	45
STRIP	LeftWall_917	8	8	0.8	0.4	0	6.12	45
STRIP	LeftWall_917	8	8	1.2	0.4	0	8.568	45
STRIP	LeftWall_917	8	8	1.6	0.4	0	11.016	45
STRIP	LeftWall_917	8	8	2	0.4	0	13.464	45
STRIP	LeftWall_917	8	8	2.4	0.4	0	15.912	45
STRIP	LeftWall_917	8	8	2.8	0.4	0	18.36	45
STRIP	LeftWall_917	8	8	3.2	0.4	0	20.808	45
STRIP	LeftWall_917	8	8	3.6	0.4	0	23.256	45
STRIP	LeftWall_917	8	8	4	0.4	0	25.704	45
STRIP	LeftWall_917	8	8	4.4	0.4	0	28.152	45
STRIP	LeftWall_917	8	8	4.8	0.4	0	30.6	45
STRIP	LeftWall_917	8	8	5.2	0.4	0	33.048	45
STRIP	LeftWall_917	8	8	5.6	0.4	0	35.496	45
STRIP	LeftWall_917	8	8	6	0.4	0	37.944	45
STRIP	LeftWall_917	8	8	6.4	0.4	0	40.392	45
STRIP	LeftWall_917	8	8	6.8	0.4	0	42.84	45
STRIP	LeftWall_917	8	8	7.2	0.4	0	45.288	45
STRIP	LeftWall_917	8	8	7.6	0.4	0	47.736	45
STRIP	LeftWall_917	8	8	8	0.4	0	50.184	45
STRIP	LeftWall_917	8	8	8.4	0.4	0	52.632	45
STRIP	LeftWall_917	8	8	8.8	0.4	0	55.08	45
STRIP	LeftWall_917	8	8	9.2	0.4	0	57.528	45
STRIP	LeftWall_917	8	8	9.6	0.4	0	59.976	45
STRIP	LeftWall_917	8	8	10	0.4	0	62.424	45
STRIP	LeftWall_917	8	8	10.4	0.4	0	64.872	45
STRIP	LeftWall_917	8	8	10.8	0.4	0	67.32	45
STRIP	LeftWall_917	8	8	11.2	0.4	0	69.768	45
STRIP	LeftWall_917	8	8	11.6	0.4	0	72.216	45
STRIP	LeftWall_917	8	8	12	0.4	0	74.664	45
STRIP	LeftWall_917	8	8	12.4	0.4	0	77.112	45
STRIP	LeftWall_917	8	8	12.8	0.4	0	79.56	45
STRIP	LeftWall_917	8	8	13.2	0.4	0	82.008	45
STRIP	LeftWall_917	8	8	13.6	0.4	0	84.456	45
STRIP	LeftWall_917	8	8	14	0.4	0	86.904	45
STRIP	LeftWall_917	8	8	14.4	0.4	0	89.352	45
STRIP	LeftWall_917	8	8	14.8	0.4	0	91.8	45
STRIP	LeftWall_917	8	8	15.2	0.4	0	94.248	45
STRIP	LeftWall_917	8	8	15.6	0.4	0	96.696	45
STRIP	LeftWall_917	8	8	16	0.4	0	99.144	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917	8	8	16.4	0.4	0	101.59	45
STRIP LeftWall_917	8	8	16.8	0.4	0	104.04	45
STRIP LeftWall_917	8	8	17.2	0.4	0	106.49	45
STRIP LeftWall_917	8	8	17.6	0.4	0	108.94	45
STRIP LeftWall_917	8	8	18	0.4	0	111.38	45
STRIP LeftWall_917	8	8	18.4	0.4	0	113.83	45
STRIP LeftWall_917	8	8	18.8	0.4	0	116.28	45
STRIP LeftWall_917	8	8	19.2	0.4	0	118.73	45
STRIP LeftWall_917	8	8	19.6	0.4	0	121.18	45
STRIP LeftWall_917	8	8	20	0.4	0	123.62	45
STRIP LeftWall_917	8	8	20.4	0.4	0	126.07	45
STRIP LeftWall_917	8	8	20.8	0.4	0	128.52	45
STRIP LeftWall_917	8	8	21.2	0.4	0	130.97	45
STRIP LeftWall_917	8	8	21.6	0.4	0	133.42	45
STRIP LeftWall_917	8	8	22	0.4	0	135.86	45
STRIP LeftWall_917	8	8	22.4	0.4	0	138.31	45
STRIP LeftWall_917	8	8	22.8	0.4	0	140.76	45
STRIP LeftWall_917	8	8	23.2	0.4	0	143.21	45
STRIP LeftWall_917	8	8	23.6	0.4	0	145.66	45
STRIP LeftWall_917	8	8	24	0.4	0	148.1	45
STRIP LeftWall_917	8	8	24.4	0.4	0	150.55	45
STRIP LeftWall_917	8	8	24.8	0.4	0	153	45
STRIP LeftWall_917	8	8	25.2	0.4	0	155.45	45
STRIP LeftWall_917	8	8	25.6	0.4	0	157.9	45
STRIP LeftWall_917	8	8	26	0.4	0	160.34	45
STRIP LeftWall_917	8	8	26.4	0.4	0	162.79	45
STRIP LeftWall_917	8	8	26.8	0.4	0	165.24	45
STRIP LeftWall_917	8	8	27.2	0.4	0	167.69	45
STRIP LeftWall_917	8	8	27.6	0.4	0	170.14	45
STRIP LeftWall_917	8	8	28	0.4	0	172.58	45
STRIP LeftWall_917	8	8	28.4	0.4	0	175.03	45
STRIP LeftWall_917	8	8	28.8	0.4	0	177.48	45
STRIP LeftWall_917	8	8	29.2	0.4	0	179.93	45
STRIP LeftWall_917	8	8	29.6	0.4	0	182.38	45
STRIP LeftWall_917	9	9	0	0.4	0	1.224	45
STRIP LeftWall_917	9	9	0.4	0.4	0	3.672	45
STRIP LeftWall_917	9	9	0.8	0.4	0	6.12	45
STRIP LeftWall_917	9	9	1.2	0.4	0	8.568	45
STRIP LeftWall_917	9	9	1.6	0.4	0	11.016	45
STRIP LeftWall_917	9	9	2	0.4	0	13.464	45
STRIP LeftWall_917	9	9	2.4	0.4	0	15.912	45
STRIP LeftWall_917	9	9	2.8	0.4	0	18.36	45
STRIP LeftWall_917	9	9	3.2	0.4	0	20.808	45
STRIP LeftWall_917	9	9	3.6	0.4	0	23.256	45
STRIP LeftWall_917	9	9	4	0.4	0	25.704	45
STRIP LeftWall_917	9	9	4.4	0.4	0	28.152	45
STRIP LeftWall_917	9	9	4.8	0.4	0	30.6	45
STRIP LeftWall_917	9	9	5.2	0.4	0	33.048	45
STRIP LeftWall_917	9	9	5.6	0.4	0	35.496	45
STRIP LeftWall_917	9	9	6	0.4	0	37.944	45
STRIP LeftWall_917	9	9	6.4	0.4	0	40.392	45
STRIP LeftWall_917	9	9	6.8	0.4	0	42.84	45
STRIP LeftWall_917	9	9	7.2	0.4	0	45.288	45
STRIP LeftWall_917	9	9	7.6	0.4	0	47.736	45
STRIP LeftWall_917	9	9	8	0.4	0	50.184	45
STRIP LeftWall_917	9	9	8.4	0.4	0	52.632	45
STRIP LeftWall_917	9	9	8.8	0.4	0	55.08	45
STRIP LeftWall_917	9	9	9.2	0.4	0	57.528	45
STRIP LeftWall_917	9	9	9.6	0.4	0	59.976	45
STRIP LeftWall_917	9	9	10	0.4	0	62.424	45
STRIP LeftWall_917	9	9	10.4	0.4	0	64.872	45
STRIP LeftWall_917	9	9	10.8	0.4	0	67.32	45
STRIP LeftWall_917	9	9	11.2	0.4	0	69.768	45
STRIP LeftWall_917	9	9	11.6	0.4	0	72.216	45
STRIP LeftWall_917	9	9	12	0.4	0	74.664	45
STRIP LeftWall_917	9	9	12.4	0.4	0	77.112	45
STRIP LeftWall_917	9	9	12.8	0.4	0	79.56	45
STRIP LeftWall_917	9	9	13.2	0.4	0	82.008	45
STRIP LeftWall_917	9	9	13.6	0.4	0	84.456	45
STRIP LeftWall_917	9	9	14	0.4	0	86.904	45
STRIP LeftWall_917	9	9	14.4	0.4	0	89.352	45
STRIP LeftWall_917	9	9	14.8	0.4	0	91.8	45
STRIP LeftWall_917	9	9	15.2	0.4	0	94.248	45
STRIP LeftWall_917	9	9	15.6	0.4	0	96.696	45
STRIP LeftWall_917	9	9	16	0.4	0	99.144	45
STRIP LeftWall_917	9	9	16.4	0.4	0	101.59	45
STRIP LeftWall_917	9	9	16.8	0.4	0	104.04	45
STRIP LeftWall_917	9	9	17.2	0.4	0	106.49	45
STRIP LeftWall_917	9	9	17.6	0.4	0	108.94	45
STRIP LeftWall_917	9	9	18	0.4	0	111.38	45
STRIP LeftWall_917	9	9	18.4	0.4	0	113.83	45
STRIP LeftWall_917	9	9	18.8	0.4	0	116.28	45
STRIP LeftWall_917	9	9	19.2	0.4	0	118.73	45
STRIP LeftWall_917	9	9	19.6	0.4	0	121.18	45
STRIP LeftWall_917	9	9	20	0.4	0	123.62	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917	9	9	20.4	0.4	0	126.07	45
STRIP LeftWall_917	9	9	20.8	0.4	0	128.52	45
STRIP LeftWall_917	9	9	21.2	0.4	0	130.97	45
STRIP LeftWall_917	9	9	21.6	0.4	0	133.42	45
STRIP LeftWall_917	9	9	22	0.4	0	135.86	45
STRIP LeftWall_917	9	9	22.4	0.4	0	138.31	45
STRIP LeftWall_917	9	9	22.8	0.4	0	140.76	45
STRIP LeftWall_917	9	9	23.2	0.4	0	143.21	45
STRIP LeftWall_917	9	9	23.6	0.4	0	145.66	45
STRIP LeftWall_917	9	9	24	0.4	0	148.1	45
STRIP LeftWall_917	9	9	24.4	0.4	0	150.55	45
STRIP LeftWall_917	9	9	24.8	0.4	0	153	45
STRIP LeftWall_917	9	9	25.2	0.4	0	155.45	45
STRIP LeftWall_917	9	9	25.6	0.4	0	157.9	45
STRIP LeftWall_917	9	9	26	0.4	0	160.34	45
STRIP LeftWall_917	9	9	26.4	0.4	0	162.79	45
STRIP LeftWall_917	9	9	26.8	0.4	0	165.24	45
STRIP LeftWall_917	9	9	27.2	0.4	0	167.69	45
STRIP LeftWall_917	9	9	27.6	0.4	0	170.14	45
STRIP LeftWall_917	9	9	28	0.4	0	172.58	45
STRIP LeftWall_917	9	9	28.4	0.4	0	175.03	45
STRIP LeftWall_917	9	9	28.8	0.4	0	177.48	45
STRIP LeftWall_917	9	9	29.2	0.4	0	179.93	45
STRIP LeftWall_917	9	9	29.6	0.4	0	182.38	45
STRIP LeftWall_917	10	10	0	0.4	0	1.224	45
STRIP LeftWall_917	10	10	0.4	0.4	0	3.672	45
STRIP LeftWall_917	10	10	0.8	0.4	0	6.12	45
STRIP LeftWall_917	10	10	1.2	0.4	0	8.568	45
STRIP LeftWall_917	10	10	1.6	0.4	0	11.016	45
STRIP LeftWall_917	10	10	2	0.4	0	13.464	45
STRIP LeftWall_917	10	10	2.4	0.4	0	15.912	45
STRIP LeftWall_917	10	10	2.8	0.4	0	18.36	45
STRIP LeftWall_917	10	10	3.2	0.4	0	20.808	45
STRIP LeftWall_917	10	10	3.6	0.4	0	23.256	45
STRIP LeftWall_917	10	10	4	0.4	0	25.704	45
STRIP LeftWall_917	10	10	4.4	0.4	0	28.152	45
STRIP LeftWall_917	10	10	4.8	0.4	0	30.6	45
STRIP LeftWall_917	10	10	5.2	0.4	0	33.048	45
STRIP LeftWall_917	10	10	5.6	0.4	0	35.496	45
STRIP LeftWall_917	10	10	6	0.4	0	37.944	45
STRIP LeftWall_917	10	10	6.4	0.4	0	40.392	45
STRIP LeftWall_917	10	10	6.8	0.4	0	42.84	45
STRIP LeftWall_917	10	10	7.2	0.4	0	45.288	45
STRIP LeftWall_917	10	10	7.6	0.4	0	47.736	45
STRIP LeftWall_917	10	10	8	0.4	0	50.184	45
STRIP LeftWall_917	10	10	8.4	0.4	0	52.632	45
STRIP LeftWall_917	10	10	8.8	0.4	0	55.08	45
STRIP LeftWall_917	10	10	9.2	0.4	0	57.528	45
STRIP LeftWall_917	10	10	9.6	0.4	0	59.976	45
STRIP LeftWall_917	10	10	10	0.4	0	62.424	45
STRIP LeftWall_917	10	10	10.4	0.4	0	64.872	45
STRIP LeftWall_917	10	10	10.8	0.4	0	67.32	45
STRIP LeftWall_917	10	10	11.2	0.4	0	69.768	45
STRIP LeftWall_917	10	10	11.6	0.4	0	72.216	45
STRIP LeftWall_917	10	10	12	0.4	0	74.664	45
STRIP LeftWall_917	10	10	12.4	0.4	0	77.112	45
STRIP LeftWall_917	10	10	12.8	0.4	0	79.56	45
STRIP LeftWall_917	10	10	13.2	0.4	0	82.008	45
STRIP LeftWall_917	10	10	13.6	0.4	0	84.456	45
STRIP LeftWall_917	10	10	14	0.4	0	86.904	45
STRIP LeftWall_917	10	10	14.4	0.4	0	89.352	45
STRIP LeftWall_917	10	10	14.8	0.4	0	91.8	45
STRIP LeftWall_917	10	10	15.2	0.4	0	94.248	45
STRIP LeftWall_917	10	10	15.6	0.4	0	96.696	45
STRIP LeftWall_917	10	10	16	0.4	0	99.144	45
STRIP LeftWall_917	10	10	16.4	0.4	0	101.59	45
STRIP LeftWall_917	10	10	16.8	0.4	0	104.04	45
STRIP LeftWall_917	10	10	17.2	0.4	0	106.49	45
STRIP LeftWall_917	10	10	17.6	0.4	0	108.94	45
STRIP LeftWall_917	10	10	18	0.4	0	111.38	45
STRIP LeftWall_917	10	10	18.4	0.4	0	113.83	45
STRIP LeftWall_917	10	10	18.8	0.4	0	116.28	45
STRIP LeftWall_917	10	10	19.2	0.4	0	118.73	45
STRIP LeftWall_917	10	10	19.6	0.4	0	121.18	45
STRIP LeftWall_917	10	10	20	0.4	0	123.62	45
STRIP LeftWall_917	10	10	20.4	0.4	0	126.07	45
STRIP LeftWall_917	10	10	20.8	0.4	0	128.52	45
STRIP LeftWall_917	10	10	21.2	0.4	0	130.97	45
STRIP LeftWall_917	10	10	21.6	0.4	0	133.42	45
STRIP LeftWall_917	10	10	22	0.4	0	135.86	45
STRIP LeftWall_917	10	10	22.4	0.4	0	138.31	45
STRIP LeftWall_917	10	10	22.8	0.4	0	140.76	45
STRIP LeftWall_917	10	10	23.2	0.4	0	143.21	45
STRIP LeftWall_917	10	10	23.6	0.4	0	145.66	45
STRIP LeftWall_917	10	10	24	0.4	0	148.1	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 10 10 24.4 0.4 0 150.55 45
STRIP LeftWall_917 10 10 24.8 0.4 0 153 45
STRIP LeftWall_917 10 10 25.2 0.4 0 155.45 45
STRIP LeftWall_917 10 10 25.6 0.4 0 157.9 45
STRIP LeftWall_917 10 10 26 0.4 0 160.34 45
STRIP LeftWall_917 10 10 26.4 0.4 0 162.79 45
STRIP LeftWall_917 10 10 26.8 0.4 0 165.24 45
STRIP LeftWall_917 10 10 27.2 0.4 0 167.69 45
STRIP LeftWall_917 10 10 27.6 0.4 0 170.14 45
STRIP LeftWall_917 10 10 28 0.4 0 172.58 45
STRIP LeftWall_917 10 10 28.4 0.4 0 175.03 45
STRIP LeftWall_917 10 10 28.8 0.4 0 177.48 45
STRIP LeftWall_917 10 10 29.2 0.4 0 179.93 45
STRIP LeftWall_917 10 10 29.6 0.4 0 182.38 45
STRIP LeftWall_917 11 11 0 0.4 0 1.224 45
STRIP LeftWall_917 11 11 0.4 0.4 0 3.672 45
STRIP LeftWall_917 11 11 0.8 0.4 0 6.12 45
STRIP LeftWall_917 11 11 1.2 0.4 0 8.568 45
STRIP LeftWall_917 11 11 1.6 0.4 0 11.016 45
STRIP LeftWall_917 11 11 2 0.4 0 13.464 45
STRIP LeftWall_917 11 11 2.4 0.4 0 15.912 45
STRIP LeftWall_917 11 11 2.8 0.4 0 18.36 45
STRIP LeftWall_917 11 11 3.2 0.4 0 20.808 45
STRIP LeftWall_917 11 11 3.6 0.4 0 23.256 45
STRIP LeftWall_917 11 11 4 0.4 0 25.704 45
STRIP LeftWall_917 11 11 4.4 0.4 0 28.152 45
STRIP LeftWall_917 11 11 4.8 0.4 0 30.6 45
STRIP LeftWall_917 11 11 5.2 0.4 0 33.048 45
STRIP LeftWall_917 11 11 5.6 0.4 0 35.496 45
STRIP LeftWall_917 11 11 6 0.4 0 37.944 45
STRIP LeftWall_917 11 11 6.4 0.4 0 40.392 45
STRIP LeftWall_917 11 11 6.8 0.4 0 42.84 45
STRIP LeftWall_917 11 11 7.2 0.4 0 45.288 45
STRIP LeftWall_917 11 11 7.6 0.4 0 47.736 45
STRIP LeftWall_917 11 11 8 0.4 0 50.184 45
STRIP LeftWall_917 11 11 8.4 0.4 0 52.632 45
STRIP LeftWall_917 11 11 8.8 0.4 0 55.08 45
STRIP LeftWall_917 11 11 9.2 0.4 0 57.528 45
STRIP LeftWall_917 11 11 9.6 0.4 0 59.976 45
STRIP LeftWall_917 11 11 10 0.4 0 62.424 45
STRIP LeftWall_917 11 11 10.4 0.4 0 64.872 45
STRIP LeftWall_917 11 11 10.8 0.4 0 67.32 45
STRIP LeftWall_917 11 11 11.2 0.4 0 69.768 45
STRIP LeftWall_917 11 11 11.6 0.4 0 72.216 45
STRIP LeftWall_917 11 11 12 0.4 0 74.664 45
STRIP LeftWall_917 11 11 12.4 0.4 0 77.112 45
STRIP LeftWall_917 11 11 12.8 0.4 0 79.56 45
STRIP LeftWall_917 11 11 13.2 0.4 0 82.008 45
STRIP LeftWall_917 11 11 13.6 0.4 0 84.456 45
STRIP LeftWall_917 11 11 14 0.4 0 86.904 45
STRIP LeftWall_917 11 11 14.4 0.4 0 89.352 45
STRIP LeftWall_917 11 11 14.8 0.4 0 91.8 45
STRIP LeftWall_917 11 11 15.2 0.4 0 94.248 45
STRIP LeftWall_917 11 11 15.6 0.4 0 96.696 45
STRIP LeftWall_917 11 11 16 0.4 0 99.144 45
STRIP LeftWall_917 11 11 16.4 0.4 0 101.59 45
STRIP LeftWall_917 11 11 16.8 0.4 0 104.04 45
STRIP LeftWall_917 11 11 17.2 0.4 0 106.49 45
STRIP LeftWall_917 11 11 17.6 0.4 0 108.94 45
STRIP LeftWall_917 11 11 18 0.4 0 111.38 45
STRIP LeftWall_917 11 11 18.4 0.4 0 113.83 45
STRIP LeftWall_917 11 11 18.8 0.4 0 116.28 45
STRIP LeftWall_917 11 11 19.2 0.4 0 118.73 45
STRIP LeftWall_917 11 11 19.6 0.4 0 121.18 45
STRIP LeftWall_917 11 11 20 0.4 0 123.62 45
STRIP LeftWall_917 11 11 20.4 0.4 0 126.07 45
STRIP LeftWall_917 11 11 20.8 0.4 0 128.52 45
STRIP LeftWall_917 11 11 21.2 0.4 0 130.97 45
STRIP LeftWall_917 11 11 21.6 0.4 0 133.42 45
STRIP LeftWall_917 11 11 22 0.4 0 135.86 45
STRIP LeftWall_917 11 11 22.4 0.4 0 138.31 45
STRIP LeftWall_917 11 11 22.8 0.4 0 140.76 45
STRIP LeftWall_917 11 11 23.2 0.4 0 143.21 45
STRIP LeftWall_917 11 11 23.6 0.4 0 145.66 45
STRIP LeftWall_917 11 11 24 0.4 0 148.1 45
STRIP LeftWall_917 11 11 24.4 0.4 0 150.55 45
STRIP LeftWall_917 11 11 24.8 0.4 0 153 45
STRIP LeftWall_917 11 11 25.2 0.4 0 155.45 45
STRIP LeftWall_917 11 11 25.6 0.4 0 157.9 45
STRIP LeftWall_917 11 11 26 0.4 0 160.34 45
STRIP LeftWall_917 11 11 26.4 0.4 0 162.79 45
STRIP LeftWall_917 11 11 26.8 0.4 0 165.24 45
STRIP LeftWall_917 11 11 27.2 0.4 0 167.69 45
STRIP LeftWall_917 11 11 27.6 0.4 0 170.14 45
STRIP LeftWall_917 11 11 28 0.4 0 172.58 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 11 11 28.4 0.4 0 175.03 45
STRIP LeftWall_917 11 11 28.8 0.4 0 177.48 45
STRIP LeftWall_917 11 11 29.2 0.4 0 179.93 45
STRIP LeftWall_917 11 11 29.6 0.4 0 182.38 45

*** 7: Defining Steps**

STEP Stepn.0Condizioniiiniziali_924
CHANGE Coltredeiritica_2_905_L_0 U-FRICT=30 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-FRICT=30 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KA=0.333 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KP=4.288 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KA=0.333 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KP=4.288 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KP=5.879 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KP=5.879 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-COHE=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-ADHES=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-COHE=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-ADHES=0 LeftWall_917
SETWALL LeftWall_917
GEOM 0 0
SURCHARGE 0 0 0 0
WATER -30 0 -14.5 0 0
ADD LeftWallElement_1092
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.1Fasediscavol-Fasel_935
SETWALL LeftWall_917
GEOM 0 -4.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.2Fasediscavol-Fase2_953
SETWALL LeftWall_917
GEOM 0 -4.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -14.5 0 0
ADD Tirantiesistenti+587.00_965
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.3Fasediscavo2-Fasel_973
SETWALL LeftWall_917
GEOM 0 -7.5
SURCHARGE 0 0 0 -6.25
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.4Fasediscavo2-Fase2_991
SETWALL LeftWall_917
GEOM 0 -7.5
SURCHARGE 0 0 0 -6.25
WATER -30 0 -14.5 0 0
ADD Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.5Fasefinalisediscavoes_1011
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.6Primotirantenuovo_1029
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
ADD TirantinuoviT3_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



```
STEP Stepn.7Secondotirantenuovo_1049
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
ADD TirantinuoviT1_3735
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage8Rilasciotirantiesist_3737
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
REMOVE Tirantiesistenti+587.00_965 Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage9Scavodiprogetto_33947
SETWALL LeftWall_917
GEOM 0 -11.2
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage10Sisma_5719
SETWALL LeftWall_917
GEOM 0 -11.2
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
CHANGE Coltredeiritica_2_905_L_0 U-KAED=0.59647 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KAEW=1.0372 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KPED=3.9463 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KPEW=2.4763 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KAED=0.52506 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KAEW=1.2417 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KPED=2.627 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KPEW=0.85515 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KAED=0.5003 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KAEW=0.7327 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KPED=5.5548 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KPEW=4.3355 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KAED=0.4404 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KAEW=0.7799 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KPED=3.7695 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KPEW=2.3816 LeftWall_917
EQK USER 0.2897 0.14485 -0.14485 18.778 0.5 0 0.5 0 0
* Defining seismic surcharge pressures on wall LeftWall_917
*   min elevation = -11.2
*   max elevation = 0
*   average gamma = 20.1964285714286
*   kh = 0.2897
*   deltaQ = 275.226588
DLOAD step LeftWall_917 -11.2 24.574 0 24.574
* Include pressure contribution from wall: LeftWall_917
* Include wall contribution
DLOAD step LeftWall_917 -11.2 0.41256 0 0.41256
VARIABLE LeftWallElement_1092 0.5
** SUBINCREMENT LOGIC - active since June 2019
SUBINCREMENTS 5
ENDSTEP
```

12.6 Design Assumption : NTC2018: SISMICA GEO - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: NTC2018: SISMICA GEO
* Time:mercoledì 14 dicembre 2022 10:41:15
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_917 0 -14.5 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_917 -14.5 0 1 0
SOIL 0_R LeftWall_917 -14.5 0 2 180
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
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Progetto Esecutivo**

```
* 4: Defining soil layers
*
* Soil Profile (Coltredetrifica_2_905_L_0)
*
LDATA Coltredetrifica_2_905_L_0 25 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 18 10 10
PERMEABILITY 1E-05
RESISTANCE 0 30 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 30000 48000
ENDDL
*
* Soil Profile (Marnaarenacea_8_906_L_0)
*
LDATA Marnaarenacea_8_906_L_0 -3 LeftWall_917
ATREST 0.5 0.5 1
WEIGHT 21 13 10
PERMEABILITY 0.0001
RESISTANCE 100 35 0 0 0
TZDATA LINEAR 20000 0 30 0.5 0
KSCALE 0 0
YOUNG 1E+06 1.6E+06
ENDDL
*
* 5: Defining structural materials
* Rebar material: 54 Name=Strands 270 ksi E=200100000 kPa
MATERIAL Strands270ksi_54 2.001E+08
* Concrete material: 1093 Name=C20/25 E=29962000 kPa
MATERIAL C2025_1093 2.9962E+07
* Steel material: 43 Name=Fe510 E=206000200 kPa
MATERIAL Fe510_43 2.06E+08
*
* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later
BEAM LeftWallElement_1092 LeftWall_917 -14.5 0 Fe510_43 0.080792 0.018495 4.3946E-05 1.4241 00 00 0
*
* 6.2: Supports
WIRE Tirantiesistenti+587.00_965 LeftWall_917 -4 Strands270ksi_54 1.6342E-05 62.5 15 0 0
WIRE Tirantiesistenti+584.00_1003 LeftWall_917 -7 Strands270ksi_54 1.9841E-05 62.5 15 0 0
WIRE TirantinuoviT3_3643 LeftWall_917 -9 Strands270ksi_54 1.9501E-05 62.5 15 0 0
WIRE TirantinuoviT1_3735 LeftWall_917 -2 Strands270ksi_54 1.611E-05 62.5 15 0 0
*
* 6.3: Strips
* (slope contribution)
STRIP LeftWall_917 1 1 0 0.4 0 1.224 45
STRIP LeftWall_917 1 1 0.4 0.4 0 3.672 45
STRIP LeftWall_917 1 1 0.8 0.4 0 6.12 45
STRIP LeftWall_917 1 1 1.2 0.4 0 8.568 45
STRIP LeftWall_917 1 1 1.6 0.4 0 11.016 45
STRIP LeftWall_917 1 1 2 0.4 0 13.464 45
STRIP LeftWall_917 1 1 2.4 0.4 0 15.912 45
STRIP LeftWall_917 1 1 2.8 0.4 0 18.36 45
STRIP LeftWall_917 1 1 3.2 0.4 0 20.808 45
STRIP LeftWall_917 1 1 3.6 0.4 0 23.256 45
STRIP LeftWall_917 1 1 4 0.4 0 25.704 45
STRIP LeftWall_917 1 1 4.4 0.4 0 28.152 45
STRIP LeftWall_917 1 1 4.8 0.4 0 30.6 45
STRIP LeftWall_917 1 1 5.2 0.4 0 33.048 45
STRIP LeftWall_917 1 1 5.6 0.4 0 35.496 45
STRIP LeftWall_917 1 1 6 0.4 0 37.944 45
STRIP LeftWall_917 1 1 6.4 0.4 0 40.392 45
STRIP LeftWall_917 1 1 6.8 0.4 0 42.84 45
STRIP LeftWall_917 1 1 7.2 0.4 0 45.288 45
STRIP LeftWall_917 1 1 7.6 0.4 0 47.736 45
STRIP LeftWall_917 1 1 8 0.4 0 50.184 45
STRIP LeftWall_917 1 1 8.4 0.4 0 52.632 45
STRIP LeftWall_917 1 1 8.8 0.4 0 55.08 45
STRIP LeftWall_917 1 1 9.2 0.4 0 57.528 45
STRIP LeftWall_917 1 1 9.6 0.4 0 59.976 45
STRIP LeftWall_917 1 1 10 0.4 0 62.424 45
STRIP LeftWall_917 1 1 10.4 0.4 0 64.872 45
STRIP LeftWall_917 1 1 10.8 0.4 0 67.32 45
STRIP LeftWall_917 1 1 11.2 0.4 0 69.768 45
STRIP LeftWall_917 1 1 11.6 0.4 0 72.216 45
STRIP LeftWall_917 1 1 12 0.4 0 74.664 45
STRIP LeftWall_917 1 1 12.4 0.4 0 77.112 45
STRIP LeftWall_917 1 1 12.8 0.4 0 79.56 45
STRIP LeftWall_917 1 1 13.2 0.4 0 82.008 45
STRIP LeftWall_917 1 1 13.6 0.4 0 84.456 45
STRIP LeftWall_917 1 1 14 0.4 0 86.904 45
STRIP LeftWall_917 1 1 14.4 0.4 0 89.352 45
STRIP LeftWall_917 1 1 14.8 0.4 0 91.8 45
STRIP LeftWall_917 1 1 15.2 0.4 0 94.248 45
STRIP LeftWall_917 1 1 15.6 0.4 0 96.696 45
STRIP LeftWall_917 1 1 16 0.4 0 99.144 45
STRIP LeftWall_917 1 1 16.4 0.4 0 101.59 45
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



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Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917	1	1	16.8	0.4	0	104.04	45
STRIP LeftWall_917	1	1	17.2	0.4	0	106.49	45
STRIP LeftWall_917	1	1	17.6	0.4	0	108.94	45
STRIP LeftWall_917	1	1	18	0.4	0	111.38	45
STRIP LeftWall_917	1	1	18.4	0.4	0	113.83	45
STRIP LeftWall_917	1	1	18.8	0.4	0	116.28	45
STRIP LeftWall_917	1	1	19.2	0.4	0	118.73	45
STRIP LeftWall_917	1	1	19.6	0.4	0	121.18	45
STRIP LeftWall_917	1	1	20	0.4	0	123.62	45
STRIP LeftWall_917	1	1	20.4	0.4	0	126.07	45
STRIP LeftWall_917	1	1	20.8	0.4	0	128.52	45
STRIP LeftWall_917	1	1	21.2	0.4	0	130.97	45
STRIP LeftWall_917	1	1	21.6	0.4	0	133.42	45
STRIP LeftWall_917	1	1	22	0.4	0	135.86	45
STRIP LeftWall_917	1	1	22.4	0.4	0	138.31	45
STRIP LeftWall_917	1	1	22.8	0.4	0	140.76	45
STRIP LeftWall_917	1	1	23.2	0.4	0	143.21	45
STRIP LeftWall_917	1	1	23.6	0.4	0	145.66	45
STRIP LeftWall_917	1	1	24	0.4	0	148.1	45
STRIP LeftWall_917	1	1	24.4	0.4	0	150.55	45
STRIP LeftWall_917	1	1	24.8	0.4	0	153	45
STRIP LeftWall_917	1	1	25.2	0.4	0	155.45	45
STRIP LeftWall_917	1	1	25.6	0.4	0	157.9	45
STRIP LeftWall_917	1	1	26	0.4	0	160.34	45
STRIP LeftWall_917	1	1	26.4	0.4	0	162.79	45
STRIP LeftWall_917	1	1	26.8	0.4	0	165.24	45
STRIP LeftWall_917	1	1	27.2	0.4	0	167.69	45
STRIP LeftWall_917	1	1	27.6	0.4	0	170.14	45
STRIP LeftWall_917	1	1	28	0.4	0	172.58	45
STRIP LeftWall_917	1	1	28.4	0.4	0	175.03	45
STRIP LeftWall_917	1	1	28.8	0.4	0	177.48	45
STRIP LeftWall_917	1	1	29.2	0.4	0	179.93	45
STRIP LeftWall_917	1	1	29.6	0.4	0	182.38	45
STRIP LeftWall_917	2	2	0	0.4	0	1.224	45
STRIP LeftWall_917	2	2	0.4	0.4	0	3.672	45
STRIP LeftWall_917	2	2	0.8	0.4	0	6.12	45
STRIP LeftWall_917	2	2	1.2	0.4	0	8.568	45
STRIP LeftWall_917	2	2	1.6	0.4	0	11.016	45
STRIP LeftWall_917	2	2	2	0.4	0	13.464	45
STRIP LeftWall_917	2	2	2.4	0.4	0	15.912	45
STRIP LeftWall_917	2	2	2.8	0.4	0	18.36	45
STRIP LeftWall_917	2	2	3.2	0.4	0	20.808	45
STRIP LeftWall_917	2	2	3.6	0.4	0	23.256	45
STRIP LeftWall_917	2	2	4	0.4	0	25.704	45
STRIP LeftWall_917	2	2	4.4	0.4	0	28.152	45
STRIP LeftWall_917	2	2	4.8	0.4	0	30.6	45
STRIP LeftWall_917	2	2	5.2	0.4	0	33.048	45
STRIP LeftWall_917	2	2	5.6	0.4	0	35.496	45
STRIP LeftWall_917	2	2	6	0.4	0	37.944	45
STRIP LeftWall_917	2	2	6.4	0.4	0	40.392	45
STRIP LeftWall_917	2	2	6.8	0.4	0	42.84	45
STRIP LeftWall_917	2	2	7.2	0.4	0	45.288	45
STRIP LeftWall_917	2	2	7.6	0.4	0	47.736	45
STRIP LeftWall_917	2	2	8	0.4	0	50.184	45
STRIP LeftWall_917	2	2	8.4	0.4	0	52.632	45
STRIP LeftWall_917	2	2	8.8	0.4	0	55.08	45
STRIP LeftWall_917	2	2	9.2	0.4	0	57.528	45
STRIP LeftWall_917	2	2	9.6	0.4	0	59.976	45
STRIP LeftWall_917	2	2	10	0.4	0	62.424	45
STRIP LeftWall_917	2	2	10.4	0.4	0	64.872	45
STRIP LeftWall_917	2	2	10.8	0.4	0	67.32	45
STRIP LeftWall_917	2	2	11.2	0.4	0	69.768	45
STRIP LeftWall_917	2	2	11.6	0.4	0	72.216	45
STRIP LeftWall_917	2	2	12	0.4	0	74.664	45
STRIP LeftWall_917	2	2	12.4	0.4	0	77.112	45
STRIP LeftWall_917	2	2	12.8	0.4	0	79.56	45
STRIP LeftWall_917	2	2	13.2	0.4	0	82.008	45
STRIP LeftWall_917	2	2	13.6	0.4	0	84.456	45
STRIP LeftWall_917	2	2	14	0.4	0	86.904	45
STRIP LeftWall_917	2	2	14.4	0.4	0	89.352	45
STRIP LeftWall_917	2	2	14.8	0.4	0	91.8	45
STRIP LeftWall_917	2	2	15.2	0.4	0	94.248	45
STRIP LeftWall_917	2	2	15.6	0.4	0	96.696	45
STRIP LeftWall_917	2	2	16	0.4	0	99.144	45
STRIP LeftWall_917	2	2	16.4	0.4	0	101.59	45
STRIP LeftWall_917	2	2	16.8	0.4	0	104.04	45
STRIP LeftWall_917	2	2	17.2	0.4	0	106.49	45
STRIP LeftWall_917	2	2	17.6	0.4	0	108.94	45
STRIP LeftWall_917	2	2	18	0.4	0	111.38	45
STRIP LeftWall_917	2	2	18.4	0.4	0	113.83	45
STRIP LeftWall_917	2	2	18.8	0.4	0	116.28	45
STRIP LeftWall_917	2	2	19.2	0.4	0	118.73	45
STRIP LeftWall_917	2	2	19.6	0.4	0	121.18	45
STRIP LeftWall_917	2	2	20	0.4	0	123.62	45
STRIP LeftWall_917	2	2	20.4	0.4	0	126.07	45
STRIP LeftWall_917	2	2	20.8	0.4	0	128.52	45
STRIP LeftWall_917	2	2	21.2	0.4	0	130.97	45
STRIP LeftWall_917	2	2	21.6	0.4	0	133.42	45
STRIP LeftWall_917	2	2	22	0.4	0	135.86	45
STRIP LeftWall_917	2	2	22.4	0.4	0	138.31	45
STRIP LeftWall_917	2	2	22.8	0.4	0	140.76	45
STRIP LeftWall_917	2	2	23.2	0.4	0	143.21	45
STRIP LeftWall_917	2	2	23.6	0.4	0	145.66	45
STRIP LeftWall_917	2	2	24	0.4	0	148.1	45
STRIP LeftWall_917	2	2	24.4	0.4	0	150.55	45
STRIP LeftWall_917	2	2	24.8	0.4	0	153	45
STRIP LeftWall_917	2	2	25.2	0.4	0	155.45	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



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Progetto Esecutivo

STRIP LeftWall_917	2	2	25.6	0.4	0	157.9	45
STRIP LeftWall_917	2	2	26	0.4	0	160.34	45
STRIP LeftWall_917	2	2	26.4	0.4	0	162.79	45
STRIP LeftWall_917	2	2	26.8	0.4	0	165.24	45
STRIP LeftWall_917	2	2	27.2	0.4	0	167.69	45
STRIP LeftWall_917	2	2	27.6	0.4	0	170.14	45
STRIP LeftWall_917	2	2	28	0.4	0	172.58	45
STRIP LeftWall_917	2	2	28.4	0.4	0	175.03	45
STRIP LeftWall_917	2	2	28.8	0.4	0	177.48	45
STRIP LeftWall_917	2	2	29.2	0.4	0	179.93	45
STRIP LeftWall_917	2	2	29.6	0.4	0	182.38	45
STRIP LeftWall_917	3	3	0	0.4	0	1.224	45
STRIP LeftWall_917	3	3	0.4	0.4	0	3.672	45
STRIP LeftWall_917	3	3	0.8	0.4	0	6.12	45
STRIP LeftWall_917	3	3	1.2	0.4	0	8.568	45
STRIP LeftWall_917	3	3	1.6	0.4	0	11.016	45
STRIP LeftWall_917	3	3	2	0.4	0	13.464	45
STRIP LeftWall_917	3	3	2.4	0.4	0	15.912	45
STRIP LeftWall_917	3	3	2.8	0.4	0	18.36	45
STRIP LeftWall_917	3	3	3.2	0.4	0	20.808	45
STRIP LeftWall_917	3	3	3.6	0.4	0	23.256	45
STRIP LeftWall_917	3	4	0.4	0	0	25.704	45
STRIP LeftWall_917	3	4	0.4	0	0	28.152	45
STRIP LeftWall_917	3	4	0.8	0.4	0	30.6	45
STRIP LeftWall_917	3	5	0.4	0	0	33.048	45
STRIP LeftWall_917	3	5	0.6	0.4	0	35.496	45
STRIP LeftWall_917	3	6	0.4	0	0	37.944	45
STRIP LeftWall_917	3	6	0.4	0	0	40.392	45
STRIP LeftWall_917	3	6	0.8	0.4	0	42.84	45
STRIP LeftWall_917	3	7	0.4	0	0	45.288	45
STRIP LeftWall_917	3	7	0.6	0.4	0	47.736	45
STRIP LeftWall_917	3	8	0.4	0	0	50.184	45
STRIP LeftWall_917	3	8	0.4	0	0	52.632	45
STRIP LeftWall_917	3	8	0.8	0.4	0	55.08	45
STRIP LeftWall_917	3	9	0.4	0	0	57.528	45
STRIP LeftWall_917	3	9	0.6	0.4	0	59.976	45
STRIP LeftWall_917	3	10	0.4	0	0	62.424	45
STRIP LeftWall_917	3	10	0.4	0	0	64.872	45
STRIP LeftWall_917	3	10	0.8	0.4	0	67.32	45
STRIP LeftWall_917	3	11	0.4	0	0	69.768	45
STRIP LeftWall_917	3	11	0.6	0.4	0	72.216	45
STRIP LeftWall_917	3	12	0.4	0	0	74.664	45
STRIP LeftWall_917	3	12	0.4	0	0	77.112	45
STRIP LeftWall_917	3	12	0.8	0.4	0	79.56	45
STRIP LeftWall_917	3	13	0.4	0	0	82.008	45
STRIP LeftWall_917	3	13	0.6	0.4	0	84.456	45
STRIP LeftWall_917	3	14	0.4	0	0	86.904	45
STRIP LeftWall_917	3	14	0.4	0	0	89.352	45
STRIP LeftWall_917	3	14	0.8	0.4	0	91.8	45
STRIP LeftWall_917	3	15	0.4	0	0	94.248	45
STRIP LeftWall_917	3	15	0.6	0.4	0	96.696	45
STRIP LeftWall_917	3	16	0.4	0	0	99.144	45
STRIP LeftWall_917	3	16	0.4	0	0	101.59	45
STRIP LeftWall_917	3	16	0.8	0.4	0	104.04	45
STRIP LeftWall_917	3	17	0.4	0	0	106.49	45
STRIP LeftWall_917	3	17	0.6	0.4	0	108.94	45
STRIP LeftWall_917	3	18	0.4	0	0	111.38	45
STRIP LeftWall_917	3	18	0.4	0	0	113.83	45
STRIP LeftWall_917	3	18	0.8	0.4	0	116.28	45
STRIP LeftWall_917	3	19	0.4	0	0	118.73	45
STRIP LeftWall_917	3	19	0.6	0.4	0	121.18	45
STRIP LeftWall_917	3	20	0.4	0	0	123.62	45
STRIP LeftWall_917	3	20	0.4	0	0	126.07	45
STRIP LeftWall_917	3	20	0.8	0.4	0	128.52	45
STRIP LeftWall_917	3	21	0.4	0	0	130.97	45
STRIP LeftWall_917	3	21	0.6	0.4	0	133.42	45
STRIP LeftWall_917	3	22	0.4	0	0	135.86	45
STRIP LeftWall_917	3	22	0.4	0	0	138.31	45
STRIP LeftWall_917	3	22	0.8	0.4	0	140.76	45
STRIP LeftWall_917	3	23	0.4	0	0	143.21	45
STRIP LeftWall_917	3	23	0.6	0.4	0	145.66	45
STRIP LeftWall_917	3	24	0.4	0	0	148.1	45
STRIP LeftWall_917	3	24	0.4	0	0	150.55	45
STRIP LeftWall_917	3	24	0.8	0.4	0	153	45
STRIP LeftWall_917	3	25	0.4	0	0	155.45	45
STRIP LeftWall_917	3	25	0.6	0.4	0	157.9	45
STRIP LeftWall_917	3	26	0.4	0	0	160.34	45
STRIP LeftWall_917	3	26	0.4	0	0	162.79	45
STRIP LeftWall_917	3	26	0.8	0.4	0	165.24	45
STRIP LeftWall_917	3	27	0.4	0	0	167.69	45
STRIP LeftWall_917	3	27	0.6	0.4	0	170.14	45
STRIP LeftWall_917	3	28	0.4	0	0	172.58	45
STRIP LeftWall_917	3	28	0.4	0	0	175.03	45
STRIP LeftWall_917	3	28	0.8	0.4	0	177.48	45
STRIP LeftWall_917	3	29	0.4	0	0	179.93	45
STRIP LeftWall_917	3	29	0.6	0.4	0	182.38	45
STRIP LeftWall_917	4	4	0	0.4	0	1.224	45
STRIP LeftWall_917	4	4	0.4	0.4	0	3.672	45
STRIP LeftWall_917	4	4	0.8	0.4	0	6.12	45
STRIP LeftWall_917	4	4	1.2	0.4	0	8.568	45
STRIP LeftWall_917	4	4	1.6	0.4	0	11.016	45
STRIP LeftWall_917	4	4	2	0.4	0	13.464	45
STRIP LeftWall_917	4	4	2.4	0.4	0	15.912	45
STRIP LeftWall_917	4	4	2.8	0.4	0	18.36	45
STRIP LeftWall_917	4	4	3.2	0.4	0	20.808	45
STRIP LeftWall_917	4	4	3.6	0.4	0	23.256	45
STRIP LeftWall_917	4	4	4	0.4	0	25.704	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917	4	4	4.4	0.4	0	28.152	45
STRIP LeftWall_917	4	4	4.8	0.4	0	30.6	45
STRIP LeftWall_917	4	4	5.2	0.4	0	33.048	45
STRIP LeftWall_917	4	4	5.6	0.4	0	35.496	45
STRIP LeftWall_917	4	4	6	0.4	0	37.944	45
STRIP LeftWall_917	4	4	6.4	0.4	0	40.392	45
STRIP LeftWall_917	4	4	6.8	0.4	0	42.84	45
STRIP LeftWall_917	4	4	7.2	0.4	0	45.288	45
STRIP LeftWall_917	4	4	7.6	0.4	0	47.736	45
STRIP LeftWall_917	4	4	8	0.4	0	50.184	45
STRIP LeftWall_917	4	4	8.4	0.4	0	52.632	45
STRIP LeftWall_917	4	4	8.8	0.4	0	55.08	45
STRIP LeftWall_917	4	4	9.2	0.4	0	57.528	45
STRIP LeftWall_917	4	4	9.6	0.4	0	59.976	45
STRIP LeftWall_917	4	4	10	0.4	0	62.424	45
STRIP LeftWall_917	4	4	10.4	0.4	0	64.872	45
STRIP LeftWall_917	4	4	10.8	0.4	0	67.32	45
STRIP LeftWall_917	4	4	11.2	0.4	0	69.768	45
STRIP LeftWall_917	4	4	11.6	0.4	0	72.216	45
STRIP LeftWall_917	4	4	12	0.4	0	74.664	45
STRIP LeftWall_917	4	4	12.4	0.4	0	77.112	45
STRIP LeftWall_917	4	4	12.8	0.4	0	79.56	45
STRIP LeftWall_917	4	4	13.2	0.4	0	82.008	45
STRIP LeftWall_917	4	4	13.6	0.4	0	84.456	45
STRIP LeftWall_917	4	4	14	0.4	0	86.904	45
STRIP LeftWall_917	4	4	14.4	0.4	0	89.352	45
STRIP LeftWall_917	4	4	14.8	0.4	0	91.8	45
STRIP LeftWall_917	4	4	15.2	0.4	0	94.248	45
STRIP LeftWall_917	4	4	15.6	0.4	0	96.696	45
STRIP LeftWall_917	4	4	16	0.4	0	99.144	45
STRIP LeftWall_917	4	4	16.4	0.4	0	101.59	45
STRIP LeftWall_917	4	4	16.8	0.4	0	104.04	45
STRIP LeftWall_917	4	4	17.2	0.4	0	106.49	45
STRIP LeftWall_917	4	4	17.6	0.4	0	108.94	45
STRIP LeftWall_917	4	4	18	0.4	0	111.38	45
STRIP LeftWall_917	4	4	18.4	0.4	0	113.83	45
STRIP LeftWall_917	4	4	18.8	0.4	0	116.28	45
STRIP LeftWall_917	4	4	19.2	0.4	0	118.73	45
STRIP LeftWall_917	4	4	19.6	0.4	0	121.18	45
STRIP LeftWall_917	4	4	20	0.4	0	123.62	45
STRIP LeftWall_917	4	4	20.4	0.4	0	126.07	45
STRIP LeftWall_917	4	4	20.8	0.4	0	128.52	45
STRIP LeftWall_917	4	4	21.2	0.4	0	130.97	45
STRIP LeftWall_917	4	4	21.6	0.4	0	133.42	45
STRIP LeftWall_917	4	4	22	0.4	0	135.86	45
STRIP LeftWall_917	4	4	22.4	0.4	0	138.31	45
STRIP LeftWall_917	4	4	22.8	0.4	0	140.76	45
STRIP LeftWall_917	4	4	23.2	0.4	0	143.21	45
STRIP LeftWall_917	4	4	23.6	0.4	0	145.66	45
STRIP LeftWall_917	4	4	24	0.4	0	148.1	45
STRIP LeftWall_917	4	4	24.4	0.4	0	150.55	45
STRIP LeftWall_917	4	4	24.8	0.4	0	153	45
STRIP LeftWall_917	4	4	25.2	0.4	0	155.45	45
STRIP LeftWall_917	4	4	25.6	0.4	0	157.9	45
STRIP LeftWall_917	4	4	26	0.4	0	160.34	45
STRIP LeftWall_917	4	4	26.4	0.4	0	162.79	45
STRIP LeftWall_917	4	4	26.8	0.4	0	165.24	45
STRIP LeftWall_917	4	4	27.2	0.4	0	167.69	45
STRIP LeftWall_917	4	4	27.6	0.4	0	170.14	45
STRIP LeftWall_917	4	4	28	0.4	0	172.58	45
STRIP LeftWall_917	4	4	28.4	0.4	0	175.03	45
STRIP LeftWall_917	4	4	28.8	0.4	0	177.48	45
STRIP LeftWall_917	4	4	29.2	0.4	0	179.93	45
STRIP LeftWall_917	4	4	29.6	0.4	0	182.38	45
STRIP LeftWall_917	5	5	0	0.4	0	1.224	45
STRIP LeftWall_917	5	5	0.4	0.4	0	3.672	45
STRIP LeftWall_917	5	5	0.8	0.4	0	6.12	45
STRIP LeftWall_917	5	5	1.2	0.4	0	8.568	45
STRIP LeftWall_917	5	5	1.6	0.4	0	11.016	45
STRIP LeftWall_917	5	5	2	0.4	0	13.464	45
STRIP LeftWall_917	5	5	2.4	0.4	0	15.912	45
STRIP LeftWall_917	5	5	2.8	0.4	0	18.36	45
STRIP LeftWall_917	5	5	3.2	0.4	0	20.808	45
STRIP LeftWall_917	5	5	3.6	0.4	0	23.256	45
STRIP LeftWall_917	5	5	4	0.4	0	25.704	45
STRIP LeftWall_917	5	5	4.4	0.4	0	28.152	45
STRIP LeftWall_917	5	5	4.8	0.4	0	30.6	45
STRIP LeftWall_917	5	5	5.2	0.4	0	33.048	45
STRIP LeftWall_917	5	5	5.6	0.4	0	35.496	45
STRIP LeftWall_917	5	5	6	0.4	0	37.944	45
STRIP LeftWall_917	5	5	6.4	0.4	0	40.392	45
STRIP LeftWall_917	5	5	6.8	0.4	0	42.84	45
STRIP LeftWall_917	5	5	7.2	0.4	0	45.288	45
STRIP LeftWall_917	5	5	7.6	0.4	0	47.736	45
STRIP LeftWall_917	5	5	8	0.4	0	50.184	45
STRIP LeftWall_917	5	5	8.4	0.4	0	52.632	45
STRIP LeftWall_917	5	5	8.8	0.4	0	55.08	45
STRIP LeftWall_917	5	5	9.2	0.4	0	57.528	45
STRIP LeftWall_917	5	5	9.6	0.4	0	59.976	45
STRIP LeftWall_917	5	5	10	0.4	0	62.424	45
STRIP LeftWall_917	5	5	10.4	0.4	0	64.872	45
STRIP LeftWall_917	5	5	10.8	0.4	0	67.32	45
STRIP LeftWall_917	5	5	11.2	0.4	0	69.768	45
STRIP LeftWall_917	5	5	11.6	0.4	0	72.216	45
STRIP LeftWall_917	5	5	12	0.4	0	74.664	45
STRIP LeftWall_917	5	5	12.4	0.4	0	77.112	45
STRIP LeftWall_917	5	5	12.8	0.4	0	79.56	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP	LeftWall_917	5	5	13.2	0.4	0	82.008	45
STRIP	LeftWall_917	5	5	13.6	0.4	0	84.456	45
STRIP	LeftWall_917	5	5	14	0.4	0	86.904	45
STRIP	LeftWall_917	5	5	14.4	0.4	0	89.352	45
STRIP	LeftWall_917	5	5	14.8	0.4	0	91.8	45
STRIP	LeftWall_917	5	5	15.2	0.4	0	94.248	45
STRIP	LeftWall_917	5	5	15.6	0.4	0	96.696	45
STRIP	LeftWall_917	5	5	16	0.4	0	99.144	45
STRIP	LeftWall_917	5	5	16.4	0.4	0	101.59	45
STRIP	LeftWall_917	5	5	16.8	0.4	0	104.04	45
STRIP	LeftWall_917	5	5	17.2	0.4	0	106.49	45
STRIP	LeftWall_917	5	5	17.6	0.4	0	108.94	45
STRIP	LeftWall_917	5	5	18	0.4	0	111.38	45
STRIP	LeftWall_917	5	5	18.4	0.4	0	113.83	45
STRIP	LeftWall_917	5	5	18.8	0.4	0	116.28	45
STRIP	LeftWall_917	5	5	19.2	0.4	0	118.73	45
STRIP	LeftWall_917	5	5	19.6	0.4	0	121.18	45
STRIP	LeftWall_917	5	5	20	0.4	0	123.62	45
STRIP	LeftWall_917	5	5	20.4	0.4	0	126.07	45
STRIP	LeftWall_917	5	5	20.8	0.4	0	128.52	45
STRIP	LeftWall_917	5	5	21.2	0.4	0	130.97	45
STRIP	LeftWall_917	5	5	21.6	0.4	0	133.42	45
STRIP	LeftWall_917	5	5	22	0.4	0	135.86	45
STRIP	LeftWall_917	5	5	22.4	0.4	0	138.31	45
STRIP	LeftWall_917	5	5	22.8	0.4	0	140.76	45
STRIP	LeftWall_917	5	5	23.2	0.4	0	143.21	45
STRIP	LeftWall_917	5	5	23.6	0.4	0	145.66	45
STRIP	LeftWall_917	5	5	24	0.4	0	148.1	45
STRIP	LeftWall_917	5	5	24.4	0.4	0	150.55	45
STRIP	LeftWall_917	5	5	24.8	0.4	0	153	45
STRIP	LeftWall_917	5	5	25.2	0.4	0	155.45	45
STRIP	LeftWall_917	5	5	25.6	0.4	0	157.9	45
STRIP	LeftWall_917	5	5	26	0.4	0	160.34	45
STRIP	LeftWall_917	5	5	26.4	0.4	0	162.79	45
STRIP	LeftWall_917	5	5	26.8	0.4	0	165.24	45
STRIP	LeftWall_917	5	5	27.2	0.4	0	167.69	45
STRIP	LeftWall_917	5	5	27.6	0.4	0	170.14	45
STRIP	LeftWall_917	5	5	28	0.4	0	172.58	45
STRIP	LeftWall_917	5	5	28.4	0.4	0	175.03	45
STRIP	LeftWall_917	5	5	28.8	0.4	0	177.48	45
STRIP	LeftWall_917	5	5	29.2	0.4	0	179.93	45
STRIP	LeftWall_917	5	5	29.6	0.4	0	182.38	45
STRIP	LeftWall_917	6	6	0	0.4	0	1.224	45
STRIP	LeftWall_917	6	6	0.4	0.4	0	3.672	45
STRIP	LeftWall_917	6	6	0.8	0.4	0	6.12	45
STRIP	LeftWall_917	6	6	1.2	0.4	0	8.568	45
STRIP	LeftWall_917	6	6	1.6	0.4	0	11.016	45
STRIP	LeftWall_917	6	6	2	0.4	0	13.464	45
STRIP	LeftWall_917	6	6	2.4	0.4	0	15.912	45
STRIP	LeftWall_917	6	6	2.8	0.4	0	18.36	45
STRIP	LeftWall_917	6	6	3.2	0.4	0	20.808	45
STRIP	LeftWall_917	6	6	3.6	0.4	0	23.256	45
STRIP	LeftWall_917	6	6	4	0.4	0	25.704	45
STRIP	LeftWall_917	6	6	4.4	0.4	0	28.152	45
STRIP	LeftWall_917	6	6	4.8	0.4	0	30.6	45
STRIP	LeftWall_917	6	6	5.2	0.4	0	33.048	45
STRIP	LeftWall_917	6	6	5.6	0.4	0	35.496	45
STRIP	LeftWall_917	6	6	6	0.4	0	37.944	45
STRIP	LeftWall_917	6	6	6.4	0.4	0	40.392	45
STRIP	LeftWall_917	6	6	6.8	0.4	0	42.84	45
STRIP	LeftWall_917	6	6	7.2	0.4	0	45.288	45
STRIP	LeftWall_917	6	6	7.6	0.4	0	47.736	45
STRIP	LeftWall_917	6	6	8	0.4	0	50.184	45
STRIP	LeftWall_917	6	6	8.4	0.4	0	52.632	45
STRIP	LeftWall_917	6	6	8.8	0.4	0	55.08	45
STRIP	LeftWall_917	6	6	9.2	0.4	0	57.528	45
STRIP	LeftWall_917	6	6	9.6	0.4	0	59.976	45
STRIP	LeftWall_917	6	6	10	0.4	0	62.424	45
STRIP	LeftWall_917	6	6	10.4	0.4	0	64.872	45
STRIP	LeftWall_917	6	6	10.8	0.4	0	67.32	45
STRIP	LeftWall_917	6	6	11.2	0.4	0	69.768	45
STRIP	LeftWall_917	6	6	11.6	0.4	0	72.216	45
STRIP	LeftWall_917	6	6	12	0.4	0	74.664	45
STRIP	LeftWall_917	6	6	12.4	0.4	0	77.112	45
STRIP	LeftWall_917	6	6	12.8	0.4	0	79.56	45
STRIP	LeftWall_917	6	6	13.2	0.4	0	82.008	45
STRIP	LeftWall_917	6	6	13.6	0.4	0	84.456	45
STRIP	LeftWall_917	6	6	14	0.4	0	86.904	45
STRIP	LeftWall_917	6	6	14.4	0.4	0	89.352	45
STRIP	LeftWall_917	6	6	14.8	0.4	0	91.8	45
STRIP	LeftWall_917	6	6	15.2	0.4	0	94.248	45
STRIP	LeftWall_917	6	6	15.6	0.4	0	96.696	45
STRIP	LeftWall_917	6	6	16	0.4	0	99.144	45
STRIP	LeftWall_917	6	6	16.4	0.4	0	101.59	45
STRIP	LeftWall_917	6	6	16.8	0.4	0	104.04	45
STRIP	LeftWall_917	6	6	17.2	0.4	0	106.49	45
STRIP	LeftWall_917	6	6	17.6	0.4	0	108.94	45
STRIP	LeftWall_917	6	6	18	0.4	0	111.38	45
STRIP	LeftWall_917	6	6	18.4	0.4	0	113.83	45
STRIP	LeftWall_917	6	6	18.8	0.4	0	116.28	45
STRIP	LeftWall_917	6	6	19.2	0.4	0	118.73	45
STRIP	LeftWall_917	6	6	19.6	0.4	0	121.18	45
STRIP	LeftWall_917	6	6	20	0.4	0	123.62	45
STRIP	LeftWall_917	6	6	20.4	0.4	0	126.07	45
STRIP	LeftWall_917	6	6	20.8	0.4	0	128.52	45
STRIP	LeftWall_917	6	6	21.2	0.4	0	130.97	45
STRIP	LeftWall_917	6	6	21.6	0.4	0	133.42	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917	6	6	22.0	0.4	0	135.86	45
STRIP LeftWall_917	6	6	22.4	0.4	0	138.31	45
STRIP LeftWall_917	6	6	22.8	0.4	0	140.76	45
STRIP LeftWall_917	6	6	23.2	0.4	0	143.21	45
STRIP LeftWall_917	6	6	23.6	0.4	0	145.66	45
STRIP LeftWall_917	6	6	24.0	0.4	0	148.1	45
STRIP LeftWall_917	6	6	24.4	0.4	0	150.55	45
STRIP LeftWall_917	6	6	24.8	0.4	0	153	45
STRIP LeftWall_917	6	6	25.2	0.4	0	155.45	45
STRIP LeftWall_917	6	6	25.6	0.4	0	157.9	45
STRIP LeftWall_917	6	6	26.0	0.4	0	160.34	45
STRIP LeftWall_917	6	6	26.4	0.4	0	162.79	45
STRIP LeftWall_917	6	6	26.8	0.4	0	165.24	45
STRIP LeftWall_917	6	6	27.2	0.4	0	167.69	45
STRIP LeftWall_917	6	6	27.6	0.4	0	170.14	45
STRIP LeftWall_917	6	6	28.0	0.4	0	172.58	45
STRIP LeftWall_917	6	6	28.4	0.4	0	175.03	45
STRIP LeftWall_917	6	6	28.8	0.4	0	177.48	45
STRIP LeftWall_917	6	6	29.2	0.4	0	179.93	45
STRIP LeftWall_917	6	6	29.6	0.4	0	182.38	45
STRIP LeftWall_917	7	7	0.0	0.4	0	1.224	45
STRIP LeftWall_917	7	7	0.4	0.4	0	3.672	45
STRIP LeftWall_917	7	7	0.8	0.4	0	6.12	45
STRIP LeftWall_917	7	7	1.2	0.4	0	8.568	45
STRIP LeftWall_917	7	7	1.6	0.4	0	11.016	45
STRIP LeftWall_917	7	7	2.0	0.4	0	13.464	45
STRIP LeftWall_917	7	7	2.4	0.4	0	15.912	45
STRIP LeftWall_917	7	7	2.8	0.4	0	18.36	45
STRIP LeftWall_917	7	7	3.2	0.4	0	20.808	45
STRIP LeftWall_917	7	7	3.6	0.4	0	23.256	45
STRIP LeftWall_917	7	7	4.0	0.4	0	25.704	45
STRIP LeftWall_917	7	7	4.4	0.4	0	28.152	45
STRIP LeftWall_917	7	7	4.8	0.4	0	30.6	45
STRIP LeftWall_917	7	7	5.2	0.4	0	33.048	45
STRIP LeftWall_917	7	7	5.6	0.4	0	35.496	45
STRIP LeftWall_917	7	7	6.0	0.4	0	37.944	45
STRIP LeftWall_917	7	7	6.4	0.4	0	40.392	45
STRIP LeftWall_917	7	7	6.8	0.4	0	42.84	45
STRIP LeftWall_917	7	7	7.2	0.4	0	45.288	45
STRIP LeftWall_917	7	7	7.6	0.4	0	47.736	45
STRIP LeftWall_917	7	7	8.0	0.4	0	50.184	45
STRIP LeftWall_917	7	7	8.4	0.4	0	52.632	45
STRIP LeftWall_917	7	7	8.8	0.4	0	55.08	45
STRIP LeftWall_917	7	7	9.2	0.4	0	57.528	45
STRIP LeftWall_917	7	7	9.6	0.4	0	59.976	45
STRIP LeftWall_917	7	7	10.0	0.4	0	62.424	45
STRIP LeftWall_917	7	7	10.4	0.4	0	64.872	45
STRIP LeftWall_917	7	7	10.8	0.4	0	67.32	45
STRIP LeftWall_917	7	7	11.2	0.4	0	69.768	45
STRIP LeftWall_917	7	7	11.6	0.4	0	72.216	45
STRIP LeftWall_917	7	7	12.0	0.4	0	74.664	45
STRIP LeftWall_917	7	7	12.4	0.4	0	77.112	45
STRIP LeftWall_917	7	7	12.8	0.4	0	79.56	45
STRIP LeftWall_917	7	7	13.2	0.4	0	82.008	45
STRIP LeftWall_917	7	7	13.6	0.4	0	84.456	45
STRIP LeftWall_917	7	7	14.0	0.4	0	86.904	45
STRIP LeftWall_917	7	7	14.4	0.4	0	89.352	45
STRIP LeftWall_917	7	7	14.8	0.4	0	91.8	45
STRIP LeftWall_917	7	7	15.2	0.4	0	94.248	45
STRIP LeftWall_917	7	7	15.6	0.4	0	96.696	45
STRIP LeftWall_917	7	7	16.0	0.4	0	99.144	45
STRIP LeftWall_917	7	7	16.4	0.4	0	101.59	45
STRIP LeftWall_917	7	7	16.8	0.4	0	104.04	45
STRIP LeftWall_917	7	7	17.2	0.4	0	106.49	45
STRIP LeftWall_917	7	7	17.6	0.4	0	108.94	45
STRIP LeftWall_917	7	7	18.0	0.4	0	111.38	45
STRIP LeftWall_917	7	7	18.4	0.4	0	113.83	45
STRIP LeftWall_917	7	7	18.8	0.4	0	116.28	45
STRIP LeftWall_917	7	7	19.2	0.4	0	118.73	45
STRIP LeftWall_917	7	7	19.6	0.4	0	121.18	45
STRIP LeftWall_917	7	7	20.0	0.4	0	123.62	45
STRIP LeftWall_917	7	7	20.4	0.4	0	126.07	45
STRIP LeftWall_917	7	7	20.8	0.4	0	128.52	45
STRIP LeftWall_917	7	7	21.2	0.4	0	130.97	45
STRIP LeftWall_917	7	7	21.6	0.4	0	133.42	45
STRIP LeftWall_917	7	7	22.0	0.4	0	135.86	45
STRIP LeftWall_917	7	7	22.4	0.4	0	138.31	45
STRIP LeftWall_917	7	7	22.8	0.4	0	140.76	45
STRIP LeftWall_917	7	7	23.2	0.4	0	143.21	45
STRIP LeftWall_917	7	7	23.6	0.4	0	145.66	45
STRIP LeftWall_917	7	7	24.0	0.4	0	148.1	45
STRIP LeftWall_917	7	7	24.4	0.4	0	150.55	45
STRIP LeftWall_917	7	7	24.8	0.4	0	153	45
STRIP LeftWall_917	7	7	25.2	0.4	0	155.45	45
STRIP LeftWall_917	7	7	25.6	0.4	0	157.9	45
STRIP LeftWall_917	7	7	26.0	0.4	0	160.34	45
STRIP LeftWall_917	7	7	26.4	0.4	0	162.79	45
STRIP LeftWall_917	7	7	26.8	0.4	0	165.24	45
STRIP LeftWall_917	7	7	27.2	0.4	0	167.69	45
STRIP LeftWall_917	7	7	27.6	0.4	0	170.14	45
STRIP LeftWall_917	7	7	28.0	0.4	0	172.58	45
STRIP LeftWall_917	7	7	28.4	0.4	0	175.03	45
STRIP LeftWall_917	7	7	28.8	0.4	0	177.48	45
STRIP LeftWall_917	7	7	29.2	0.4	0	179.93	45
STRIP LeftWall_917	7	7	29.6	0.4	0	182.38	45
STRIP LeftWall_917	8	8	0.0	0.4	0	1.224	45
STRIP LeftWall_917	8	8	0.4	0.4	0	3.672	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo**

STRIP LeftWall_917 8 8 0.8 0.4 0 6.12 45
STRIP LeftWall_917 8 8 1.2 0.4 0 8.568 45
STRIP LeftWall_917 8 8 1.6 0.4 0 11.016 45
STRIP LeftWall_917 8 8 2.0 0.4 0 13.464 45
STRIP LeftWall_917 8 8 2.4 0.4 0 15.912 45
STRIP LeftWall_917 8 8 2.8 0.4 0 18.36 45
STRIP LeftWall_917 8 8 3.2 0.4 0 20.808 45
STRIP LeftWall_917 8 8 3.6 0.4 0 23.256 45
STRIP LeftWall_917 8 8 4.0 0.4 0 25.704 45
STRIP LeftWall_917 8 8 4.4 0.4 0 28.152 45
STRIP LeftWall_917 8 8 4.8 0.4 0 30.6 45
STRIP LeftWall_917 8 8 5.2 0.4 0 33.048 45
STRIP LeftWall_917 8 8 5.6 0.4 0 35.496 45
STRIP LeftWall_917 8 8 6.0 0.4 0 37.944 45
STRIP LeftWall_917 8 8 6.4 0.4 0 40.392 45
STRIP LeftWall_917 8 8 6.8 0.4 0 42.84 45
STRIP LeftWall_917 8 8 7.2 0.4 0 45.288 45
STRIP LeftWall_917 8 8 7.6 0.4 0 47.736 45
STRIP LeftWall_917 8 8 8.0 0.4 0 50.184 45
STRIP LeftWall_917 8 8 8.4 0.4 0 52.632 45
STRIP LeftWall_917 8 8 8.8 0.4 0 55.08 45
STRIP LeftWall_917 8 8 9.2 0.4 0 57.528 45
STRIP LeftWall_917 8 8 9.6 0.4 0 59.976 45
STRIP LeftWall_917 8 8 10.0 0.4 0 62.424 45
STRIP LeftWall_917 8 8 10.4 0.4 0 64.872 45
STRIP LeftWall_917 8 8 10.8 0.4 0 67.32 45
STRIP LeftWall_917 8 8 11.2 0.4 0 69.768 45
STRIP LeftWall_917 8 8 11.6 0.4 0 72.216 45
STRIP LeftWall_917 8 8 12.0 0.4 0 74.664 45
STRIP LeftWall_917 8 8 12.4 0.4 0 77.112 45
STRIP LeftWall_917 8 8 12.8 0.4 0 79.56 45
STRIP LeftWall_917 8 8 13.2 0.4 0 82.008 45
STRIP LeftWall_917 8 8 13.6 0.4 0 84.456 45
STRIP LeftWall_917 8 8 14.0 0.4 0 86.904 45
STRIP LeftWall_917 8 8 14.4 0.4 0 89.352 45
STRIP LeftWall_917 8 8 14.8 0.4 0 91.8 45
STRIP LeftWall_917 8 8 15.2 0.4 0 94.248 45
STRIP LeftWall_917 8 8 15.6 0.4 0 96.696 45
STRIP LeftWall_917 8 8 16.0 0.4 0 99.144 45
STRIP LeftWall_917 8 8 16.4 0.4 0 101.59 45
STRIP LeftWall_917 8 8 16.8 0.4 0 104.04 45
STRIP LeftWall_917 8 8 17.2 0.4 0 106.49 45
STRIP LeftWall_917 8 8 17.6 0.4 0 108.94 45
STRIP LeftWall_917 8 8 18.0 0.4 0 111.38 45
STRIP LeftWall_917 8 8 18.4 0.4 0 113.83 45
STRIP LeftWall_917 8 8 18.8 0.4 0 116.28 45
STRIP LeftWall_917 8 8 19.2 0.4 0 118.73 45
STRIP LeftWall_917 8 8 19.6 0.4 0 121.18 45
STRIP LeftWall_917 8 8 20.0 0.4 0 123.62 45
STRIP LeftWall_917 8 8 20.4 0.4 0 126.07 45
STRIP LeftWall_917 8 8 20.8 0.4 0 128.52 45
STRIP LeftWall_917 8 8 21.2 0.4 0 130.97 45
STRIP LeftWall_917 8 8 21.6 0.4 0 133.42 45
STRIP LeftWall_917 8 8 22.0 0.4 0 135.86 45
STRIP LeftWall_917 8 8 22.4 0.4 0 138.31 45
STRIP LeftWall_917 8 8 22.8 0.4 0 140.76 45
STRIP LeftWall_917 8 8 23.2 0.4 0 143.21 45
STRIP LeftWall_917 8 8 23.6 0.4 0 145.66 45
STRIP LeftWall_917 8 8 24.0 0.4 0 148.1 45
STRIP LeftWall_917 8 8 24.4 0.4 0 150.55 45
STRIP LeftWall_917 8 8 24.8 0.4 0 153 45
STRIP LeftWall_917 8 8 25.2 0.4 0 155.45 45
STRIP LeftWall_917 8 8 25.6 0.4 0 157.9 45
STRIP LeftWall_917 8 8 26.0 0.4 0 160.34 45
STRIP LeftWall_917 8 8 26.4 0.4 0 162.79 45
STRIP LeftWall_917 8 8 26.8 0.4 0 165.24 45
STRIP LeftWall_917 8 8 27.2 0.4 0 167.69 45
STRIP LeftWall_917 8 8 27.6 0.4 0 170.14 45
STRIP LeftWall_917 8 8 28.0 0.4 0 172.58 45
STRIP LeftWall_917 8 8 28.4 0.4 0 175.03 45
STRIP LeftWall_917 8 8 28.8 0.4 0 177.48 45
STRIP LeftWall_917 8 8 29.2 0.4 0 179.93 45
STRIP LeftWall_917 8 8 29.6 0.4 0 182.38 45
STRIP LeftWall_917 9 0 0.4 0 1.224 45
STRIP LeftWall_917 9 0 0.4 0 3.672 45
STRIP LeftWall_917 9 0 0.8 0.4 0 6.12 45
STRIP LeftWall_917 9 0 1.2 0.4 0 8.568 45
STRIP LeftWall_917 9 0 1.6 0.4 0 11.016 45
STRIP LeftWall_917 9 0 2.0 0.4 0 13.464 45
STRIP LeftWall_917 9 0 2.4 0.4 0 15.912 45
STRIP LeftWall_917 9 0 2.8 0.4 0 18.36 45
STRIP LeftWall_917 9 0 3.2 0.4 0 20.808 45
STRIP LeftWall_917 9 0 3.6 0.4 0 23.256 45
STRIP LeftWall_917 9 0 4.0 0.4 0 25.704 45
STRIP LeftWall_917 9 0 4.4 0.4 0 28.152 45
STRIP LeftWall_917 9 0 4.8 0.4 0 30.6 45
STRIP LeftWall_917 9 0 5.2 0.4 0 33.048 45
STRIP LeftWall_917 9 0 5.6 0.4 0 35.496 45
STRIP LeftWall_917 9 0 6.0 0.4 0 37.944 45
STRIP LeftWall_917 9 0 6.4 0.4 0 40.392 45
STRIP LeftWall_917 9 0 6.8 0.4 0 42.84 45
STRIP LeftWall_917 9 0 7.2 0.4 0 45.288 45
STRIP LeftWall_917 9 0 7.6 0.4 0 47.736 45
STRIP LeftWall_917 9 0 8.0 0.4 0 50.184 45
STRIP LeftWall_917 9 0 8.4 0.4 0 52.632 45
STRIP LeftWall_917 9 0 8.8 0.4 0 55.08 45
STRIP LeftWall_917 9 0 9.2 0.4 0 57.528 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP LeftWall_917 9 9 9.6 0.4 0 59.976 45
STRIP LeftWall_917 9 9 10 0.4 0 62.424 45
STRIP LeftWall_917 9 9 10.4 0.4 0 64.872 45
STRIP LeftWall_917 9 9 10.8 0.4 0 67.32 45
STRIP LeftWall_917 9 9 11.2 0.4 0 69.768 45
STRIP LeftWall_917 9 9 11.6 0.4 0 72.216 45
STRIP LeftWall_917 9 9 12 0.4 0 74.664 45
STRIP LeftWall_917 9 9 12.4 0.4 0 77.112 45
STRIP LeftWall_917 9 9 12.8 0.4 0 79.56 45
STRIP LeftWall_917 9 9 13.2 0.4 0 82.008 45
STRIP LeftWall_917 9 9 13.6 0.4 0 84.456 45
STRIP LeftWall_917 9 9 14 0.4 0 86.904 45
STRIP LeftWall_917 9 9 14.4 0.4 0 89.352 45
STRIP LeftWall_917 9 9 14.8 0.4 0 91.8 45
STRIP LeftWall_917 9 9 15.2 0.4 0 94.248 45
STRIP LeftWall_917 9 9 15.6 0.4 0 96.696 45
STRIP LeftWall_917 9 9 16 0.4 0 99.144 45
STRIP LeftWall_917 9 9 16.4 0.4 0 101.59 45
STRIP LeftWall_917 9 9 16.8 0.4 0 104.04 45
STRIP LeftWall_917 9 9 17.2 0.4 0 106.49 45
STRIP LeftWall_917 9 9 17.6 0.4 0 108.94 45
STRIP LeftWall_917 9 9 18 0.4 0 111.38 45
STRIP LeftWall_917 9 9 18.4 0.4 0 113.83 45
STRIP LeftWall_917 9 9 18.8 0.4 0 116.28 45
STRIP LeftWall_917 9 9 19.2 0.4 0 118.73 45
STRIP LeftWall_917 9 9 19.6 0.4 0 121.18 45
STRIP LeftWall_917 9 9 20 0.4 0 123.62 45
STRIP LeftWall_917 9 9 20.4 0.4 0 126.07 45
STRIP LeftWall_917 9 9 20.8 0.4 0 128.52 45
STRIP LeftWall_917 9 9 21.2 0.4 0 130.97 45
STRIP LeftWall_917 9 9 21.6 0.4 0 133.42 45
STRIP LeftWall_917 9 9 22 0.4 0 135.86 45
STRIP LeftWall_917 9 9 22.4 0.4 0 138.31 45
STRIP LeftWall_917 9 9 22.8 0.4 0 140.76 45
STRIP LeftWall_917 9 9 23.2 0.4 0 143.21 45
STRIP LeftWall_917 9 9 23.6 0.4 0 145.66 45
STRIP LeftWall_917 9 9 24 0.4 0 148.1 45
STRIP LeftWall_917 9 9 24.4 0.4 0 150.55 45
STRIP LeftWall_917 9 9 24.8 0.4 0 153 45
STRIP LeftWall_917 9 9 25.2 0.4 0 155.45 45
STRIP LeftWall_917 9 9 25.6 0.4 0 157.9 45
STRIP LeftWall_917 9 9 26 0.4 0 160.34 45
STRIP LeftWall_917 9 9 26.4 0.4 0 162.79 45
STRIP LeftWall_917 9 9 26.8 0.4 0 165.24 45
STRIP LeftWall_917 9 9 27.2 0.4 0 167.69 45
STRIP LeftWall_917 9 9 27.6 0.4 0 170.14 45
STRIP LeftWall_917 9 9 28 0.4 0 172.58 45
STRIP LeftWall_917 9 9 28.4 0.4 0 175.03 45
STRIP LeftWall_917 9 9 28.8 0.4 0 177.48 45
STRIP LeftWall_917 9 9 29.2 0.4 0 179.93 45
STRIP LeftWall_917 9 9 29.6 0.4 0 182.38 45
STRIP LeftWall_917 10 10 0 0.4 0 1.224 45
STRIP LeftWall_917 10 10 0.4 0.4 0 3.672 45
STRIP LeftWall_917 10 10 0.8 0.4 0 6.12 45
STRIP LeftWall_917 10 10 1.2 0.4 0 8.568 45
STRIP LeftWall_917 10 10 1.6 0.4 0 11.016 45
STRIP LeftWall_917 10 10 2 0.4 0 13.464 45
STRIP LeftWall_917 10 10 2.4 0.4 0 15.912 45
STRIP LeftWall_917 10 10 2.8 0.4 0 18.36 45
STRIP LeftWall_917 10 10 3.2 0.4 0 20.808 45
STRIP LeftWall_917 10 10 3.6 0.4 0 23.256 45
STRIP LeftWall_917 10 10 4 0.4 0 25.704 45
STRIP LeftWall_917 10 10 4.4 0.4 0 28.152 45
STRIP LeftWall_917 10 10 4.8 0.4 0 30.6 45
STRIP LeftWall_917 10 10 5.2 0.4 0 33.048 45
STRIP LeftWall_917 10 10 5.6 0.4 0 35.496 45
STRIP LeftWall_917 10 10 6 0.4 0 37.944 45
STRIP LeftWall_917 10 10 6.4 0.4 0 40.392 45
STRIP LeftWall_917 10 10 6.8 0.4 0 42.84 45
STRIP LeftWall_917 10 10 7.2 0.4 0 45.288 45
STRIP LeftWall_917 10 10 7.6 0.4 0 47.736 45
STRIP LeftWall_917 10 10 8 0.4 0 50.184 45
STRIP LeftWall_917 10 10 8.4 0.4 0 52.632 45
STRIP LeftWall_917 10 10 8.8 0.4 0 55.08 45
STRIP LeftWall_917 10 10 9.2 0.4 0 57.528 45
STRIP LeftWall_917 10 10 9.6 0.4 0 59.976 45
STRIP LeftWall_917 10 10 10 0.4 0 62.424 45
STRIP LeftWall_917 10 10 10.4 0.4 0 64.872 45
STRIP LeftWall_917 10 10 10.8 0.4 0 67.32 45
STRIP LeftWall_917 10 10 11.2 0.4 0 69.768 45
STRIP LeftWall_917 10 10 11.6 0.4 0 72.216 45
STRIP LeftWall_917 10 10 12 0.4 0 74.664 45
STRIP LeftWall_917 10 10 12.4 0.4 0 77.112 45
STRIP LeftWall_917 10 10 12.8 0.4 0 79.56 45
STRIP LeftWall_917 10 10 13.2 0.4 0 82.008 45
STRIP LeftWall_917 10 10 13.6 0.4 0 84.456 45
STRIP LeftWall_917 10 10 14 0.4 0 86.904 45
STRIP LeftWall_917 10 10 14.4 0.4 0 89.352 45
STRIP LeftWall_917 10 10 14.8 0.4 0 91.8 45
STRIP LeftWall_917 10 10 15.2 0.4 0 94.248 45
STRIP LeftWall_917 10 10 15.6 0.4 0 96.696 45
STRIP LeftWall_917 10 10 16 0.4 0 99.144 45
STRIP LeftWall_917 10 10 16.4 0.4 0 101.59 45
STRIP LeftWall_917 10 10 16.8 0.4 0 104.04 45
STRIP LeftWall_917 10 10 17.2 0.4 0 106.49 45
STRIP LeftWall_917 10 10 17.6 0.4 0 108.94 45
STRIP LeftWall_917 10 10 18 0.4 0 111.38 45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

STRIP	LeftWall_917	10	10	18.4	0.4	0	113.83	45
STRIP	LeftWall_917	10	10	18.8	0.4	0	116.28	45
STRIP	LeftWall_917	10	10	19.2	0.4	0	118.73	45
STRIP	LeftWall_917	10	10	19.6	0.4	0	121.18	45
STRIP	LeftWall_917	10	10	20.0	0.4	0	123.62	45
STRIP	LeftWall_917	10	10	20.4	0.4	0	126.07	45
STRIP	LeftWall_917	10	10	20.8	0.4	0	128.52	45
STRIP	LeftWall_917	10	10	21.2	0.4	0	130.97	45
STRIP	LeftWall_917	10	10	21.6	0.4	0	133.42	45
STRIP	LeftWall_917	10	10	22.0	0.4	0	135.86	45
STRIP	LeftWall_917	10	10	22.4	0.4	0	138.31	45
STRIP	LeftWall_917	10	10	22.8	0.4	0	140.76	45
STRIP	LeftWall_917	10	10	23.2	0.4	0	143.21	45
STRIP	LeftWall_917	10	10	23.6	0.4	0	145.66	45
STRIP	LeftWall_917	10	10	24.0	0.4	0	148.1	45
STRIP	LeftWall_917	10	10	24.4	0.4	0	150.55	45
STRIP	LeftWall_917	10	10	24.8	0.4	0	153	45
STRIP	LeftWall_917	10	10	25.2	0.4	0	155.45	45
STRIP	LeftWall_917	10	10	25.6	0.4	0	157.9	45
STRIP	LeftWall_917	10	10	26.0	0.4	0	160.34	45
STRIP	LeftWall_917	10	10	26.4	0.4	0	162.79	45
STRIP	LeftWall_917	10	10	26.8	0.4	0	165.24	45
STRIP	LeftWall_917	10	10	27.2	0.4	0	167.69	45
STRIP	LeftWall_917	10	10	27.6	0.4	0	170.14	45
STRIP	LeftWall_917	10	10	28.0	0.4	0	172.58	45
STRIP	LeftWall_917	10	10	28.4	0.4	0	175.03	45
STRIP	LeftWall_917	10	10	28.8	0.4	0	177.48	45
STRIP	LeftWall_917	10	10	29.2	0.4	0	179.93	45
STRIP	LeftWall_917	10	10	29.6	0.4	0	182.38	45
STRIP	LeftWall_917	11	11	0.4	0.4	0	1.224	45
STRIP	LeftWall_917	11	11	0.8	0.4	0	3.672	45
STRIP	LeftWall_917	11	11	1.2	0.4	0	6.12	45
STRIP	LeftWall_917	11	11	1.6	0.4	0	8.568	45
STRIP	LeftWall_917	11	11	2.0	0.4	0	11.016	45
STRIP	LeftWall_917	11	11	2.4	0.4	0	13.464	45
STRIP	LeftWall_917	11	11	2.8	0.4	0	15.912	45
STRIP	LeftWall_917	11	11	3.2	0.4	0	18.36	45
STRIP	LeftWall_917	11	11	3.6	0.4	0	20.808	45
STRIP	LeftWall_917	11	11	4.0	0.4	0	23.256	45
STRIP	LeftWall_917	11	11	4.4	0.4	0	25.704	45
STRIP	LeftWall_917	11	11	4.8	0.4	0	28.152	45
STRIP	LeftWall_917	11	11	5.2	0.4	0	30.6	45
STRIP	LeftWall_917	11	11	5.6	0.4	0	33.048	45
STRIP	LeftWall_917	11	11	6.0	0.4	0	35.496	45
STRIP	LeftWall_917	11	11	6.4	0.4	0	37.944	45
STRIP	LeftWall_917	11	11	6.8	0.4	0	40.392	45
STRIP	LeftWall_917	11	11	7.2	0.4	0	42.84	45
STRIP	LeftWall_917	11	11	7.6	0.4	0	45.288	45
STRIP	LeftWall_917	11	11	8.0	0.4	0	47.736	45
STRIP	LeftWall_917	11	11	8.4	0.4	0	50.184	45
STRIP	LeftWall_917	11	11	8.8	0.4	0	52.632	45
STRIP	LeftWall_917	11	11	9.2	0.4	0	55.08	45
STRIP	LeftWall_917	11	11	9.6	0.4	0	57.528	45
STRIP	LeftWall_917	11	11	10.0	0.4	0	59.976	45
STRIP	LeftWall_917	11	11	10.4	0.4	0	62.424	45
STRIP	LeftWall_917	11	11	10.8	0.4	0	64.872	45
STRIP	LeftWall_917	11	11	11.2	0.4	0	67.32	45
STRIP	LeftWall_917	11	11	11.6	0.4	0	69.768	45
STRIP	LeftWall_917	11	11	12.0	0.4	0	72.216	45
STRIP	LeftWall_917	11	11	12.4	0.4	0	74.664	45
STRIP	LeftWall_917	11	11	12.8	0.4	0	77.112	45
STRIP	LeftWall_917	11	11	13.2	0.4	0	79.56	45
STRIP	LeftWall_917	11	11	13.6	0.4	0	82.008	45
STRIP	LeftWall_917	11	11	14.0	0.4	0	84.456	45
STRIP	LeftWall_917	11	11	14.4	0.4	0	86.904	45
STRIP	LeftWall_917	11	11	14.8	0.4	0	89.352	45
STRIP	LeftWall_917	11	11	15.2	0.4	0	91.8	45
STRIP	LeftWall_917	11	11	15.6	0.4	0	94.248	45
STRIP	LeftWall_917	11	11	16.0	0.4	0	96.696	45
STRIP	LeftWall_917	11	11	16.4	0.4	0	99.144	45
STRIP	LeftWall_917	11	11	16.8	0.4	0	101.59	45
STRIP	LeftWall_917	11	11	17.2	0.4	0	104.04	45
STRIP	LeftWall_917	11	11	17.6	0.4	0	106.49	45
STRIP	LeftWall_917	11	11	18.0	0.4	0	108.94	45
STRIP	LeftWall_917	11	11	18.4	0.4	0	111.38	45
STRIP	LeftWall_917	11	11	18.8	0.4	0	113.83	45
STRIP	LeftWall_917	11	11	19.2	0.4	0	116.28	45
STRIP	LeftWall_917	11	11	19.6	0.4	0	118.73	45
STRIP	LeftWall_917	11	11	20.0	0.4	0	121.18	45
STRIP	LeftWall_917	11	11	20.4	0.4	0	123.62	45
STRIP	LeftWall_917	11	11	20.8	0.4	0	126.07	45
STRIP	LeftWall_917	11	11	21.2	0.4	0	128.52	45
STRIP	LeftWall_917	11	11	21.6	0.4	0	130.97	45
STRIP	LeftWall_917	11	11	22.0	0.4	0	133.42	45
STRIP	LeftWall_917	11	11	22.4	0.4	0	135.86	45
STRIP	LeftWall_917	11	11	22.8	0.4	0	138.31	45
STRIP	LeftWall_917	11	11	23.2	0.4	0	140.76	45
STRIP	LeftWall_917	11	11	23.6	0.4	0	143.21	45
STRIP	LeftWall_917	11	11	24.0	0.4	0	145.66	45
STRIP	LeftWall_917	11	11	24.4	0.4	0	148.1	45
STRIP	LeftWall_917	11	11	24.8	0.4	0	150.55	45
STRIP	LeftWall_917	11	11	25.2	0.4	0	153	45
STRIP	LeftWall_917	11	11	25.6	0.4	0	155.45	45
STRIP	LeftWall_917	11	11	26.0	0.4	0	157.9	45
STRIP	LeftWall_917	11	11	26.4	0.4	0	160.34	45
STRIP	LeftWall_917	11	11	26.8	0.4	0	162.79	45
STRIP	LeftWall_917	11	11	27.2	0.4	0	165.24	45

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:

Mandanti:



ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
Adeguamento a 2 corsie della Galleria della Guinza (Lotto 2) e del Tratto Guinza - Mercatello Ovest (Lotto 3) - 1° stralcio
Progetto Esecutivo

```
STRIP LeftWall_917 11 11 27.2 0.4 0 167.69 45
STRIP LeftWall_917 11 11 27.6 0.4 0 170.14 45
STRIP LeftWall_917 11 11 28 0.4 0 172.58 45
STRIP LeftWall_917 11 11 28.4 0.4 0 175.03 45
STRIP LeftWall_917 11 11 28.8 0.4 0 177.48 45
STRIP LeftWall_917 11 11 29.2 0.4 0 179.93 45
STRIP LeftWall_917 11 11 29.6 0.4 0 182.38 45

* 7: Defining Steps
STEP Stepn.0Condizioniiiniziali_924
CHANGE Coltredeiritica_2_905_L_0 U-FRICT=30 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-FRICT=30 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KA=0.333 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-KP=4.288 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KA=0.333 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-KP=4.288 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-FRICT=35 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KP=5.879 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KA=0.271 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KP=5.879 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-COHE=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 U-ADHES=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-COHE=0 LeftWall_917
CHANGE Coltredeiritica_2_905_L_0 D-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-ADHES=0 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-COHE=100 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-ADHES=0 LeftWall_917
SETWALL LeftWall_917
GEOM 0 0
SURCHARGE 0 0 0 0
WATER -30 0 -14.5 0 0
ADD LeftWallElement_1092
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.1Fasediscavo1-Fase1_935
SETWALL LeftWall_917
GEOM 0 -4.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.2Fasediscavo1-Fase2_953
SETWALL LeftWall_917
GEOM 0 -4.5
SURCHARGE 0 0 0 -3.5
WATER -30 0 -14.5 0 0
ADD Tirantiesistenti+587.00_965
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.3Fasediscavo2-Fase1_973
SETWALL LeftWall_917
GEOM 0 -7.5
SURCHARGE 0 0 0 -6.25
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.4Fasediscavo2-Fase2_991
SETWALL LeftWall_917
GEOM 0 -7.5
SURCHARGE 0 0 0 -6.25
WATER -30 0 -14.5 0 0
ADD Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.5Fasefinalisediscavoes_1011
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.6Primotirantenuovo_1029
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
ADD TirantinuoviT3_3643
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stepn.7Secondotirantenuovo_1049
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
ADD TirantinuoviT1_3735
VARIABLE LeftWallElement_1092 0.5
ENDSTEP
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:



**ITINERARIO INTERNAZIONALE E78 S.G.C. GROSSETO – FANO - Tratto Selci Lama (E45) - S. Stefano di Gaifa
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Progetto Esecutivo**

```
STEP Stage8Rilasciotirantiesist_3737
SETWALL LeftWall_917
GEOM 0 -10
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
REMOVE Tirantiesistenti+587.00_965 Tirantiesistenti+584.00_1003
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage9Scavodiprogetto_33947
SETWALL LeftWall_917
GEOM 0 -11.2
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
VARIABLE LeftWallElement_1092 0.5
ENDSTEP

STEP Stage10Sisma_5719
SETWALL LeftWall_917
GEOM 0 -11.2
SURCHARGE 0 0 0 -9
WATER -30 0 -14.5 0 0
CHANGE Coltredestritica_2_905_L_0 U-KAED=0.59647 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KAEW=1.0372 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KPED=3.9463 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 U-KPEW=2.4763 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KAED=0.52506 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KAEW=1.2417 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KPED=2.627 LeftWall_917
CHANGE Coltredestritica_2_905_L_0 D-KPEW=0.85515 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KAED=0.5003 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KAEW=0.7327 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KPED=5.5548 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 U-KPEW=4.3355 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KAED=0.4404 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KAEW=0.7799 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KPED=3.7695 LeftWall_917
CHANGE Marnaarenacea_8_906_L_0 D-KPEW=2.3816 LeftWall_917
EQK USER 0.2897 0.14485 -0.14485 18.778 0.5 0 0.5 0 0
* Defining seismic surcharge pressures on wall LeftWall_917
*   min elevation = -11.2
*   max elevation = 0
*   average gamma = 20.1964285714286
*   kh = 0.2897
*   deltaQ = 275.226588
DLOAD step LeftWall_917 -11.2 24.574 0 24.574
* Include pressure contribution from wall: LeftWall_917
* Include wall contribution
DLOAD step LeftWall_917 -11.2 0.41256 0 0.41256
VARIABLE LeftWallElement_1092 0.5
** SUBINCREMENT LOGIC - active since June 2019
SUBINCREMENTS 5
ENDSTEP
```

Relazione di calcolo - Imbocco lato Umbria – Interventi di messa in sicurezza paratia di imbocco

RTP di progettazione:

Mandataria:



Mandanti:

