

COMMITTENTE:



ALTA SORVEGLIANZA:



GENERAL CONTRACTOR:



**INFRASTRUTTURE FERROVIARIE STRATEGICHE DEFINITE DALLA LEGGE  
OBIETTIVO N. 443/01  
LINEA AV/AC TORINO – VENEZIA Tratta VERONA – PADOVA  
Lotto funzionale Verona – Bivio Vicenza  
PROGETTO ESECUTIVO  
OPERE CIVILI  
BLOCCHI DI FONDAZIONE  
GENERALE  
RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45**

GENERAL CONTRACTOR		DIRETTORE LAVORI		SCALA -
IL PROGETTISTA INTEGRATORE Ing. Giovanni MALAVENDA ALBO INGEGNERI PROV. DI MESSINA n. 4503 Data: Luglio 2022	Consorzio Iricav Due ing. Paolo CARMONA Data: Luglio 2022			

COMMESSA LOTTO FASE ENTE TIPO DOC. OPERA/DISCIPLINA Progr. REV. FOGLIO

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	VISTO CONSORZIO IRICAV DUE	
	Firma	Data
	Ing. Alberto LEVORATO 	Luglio 2022

Progettazione:

Rev.	Descrizione	Redatto	Data	Verificato	Data	Approvato	Data	IL PROGETTISTA
A	EMISSIONE	Murru 	04/2021	Pantalena 	04/2021	Galvanin 	04/2021	
B	Rev. per RdV: IN17-RV-0000000254	Murru 	07/2022	Pantalena 	07/2022	Galvanin 	07/2022	

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		Cod. origine:



Progetto cofinanziato dalla Unione Europea

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FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 2 di 215	

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## 1. DESCRIZIONE GENERALE

La presente relazione riguarda l'intervento di realizzazione dei basamenti in c.a. per i montanti in acciaio del portale segnale, previsti dalla Fase 1-2 della stazione di Altavilla della Linea AV/AC Torino – Venezia - Tratta Verona - Padova - Lotto funzionale Verona-Bivio Vicenza.

Il plinto, riferito al palo segnale S43 S45, ha le seguenti dimensioni in pianta 2.25m x 5.0m ed una altezza di 2.20m. Per la carpenteria e dettagli di armatura si rimanda agli elaborati grafici allegati all'opera (rif. §**Errore**. **L'origine riferimento non è stata trovata.**).

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## 2. **NORMATIVA DI RIFERIMENTO**

- UNI EN 197-1 giugno 2001 – “Cemento: composizione, specificazioni e criteri di conformità per cementi comuni”;
- UNI EN 11104 luglio 2016 – “Calcestruzzo: specificazione, prestazione, produzione e conformità”, Istruzioni complementari per l'applicazione delle EN 206-1;
- UNI EN 206-1 ottobre 2006 – “Calcestruzzo: specificazione, prestazione, produzione e conformità”.
- UNI EN 1998-5 (Eurocodice 8) – Gennaio 2005: “Progettazione delle strutture per la resistenza sismica – Parte 5: Fondazioni, strutture di contenimento ed aspetti geotecnici”;
- UNI EN 1992-1-1 (Eurocodice 2) – Novembre 2005: “Progettazione delle strutture di calcestruzzo – Parte 1: Regole generali e regole per edifici”;
- D. M. Min. II. TT. del 14 gennaio 2008 – Norme tecniche per le costruzioni;
- CIRCOLARE 2 febbraio 2009, n.617 Istruzione per l'applicazione delle «Nuove norme tecniche per le costruzioni» di cui al decreto ministeriale 14 gennaio 2008;
- Linee guida sul calcestruzzo strutturale - Presidenza del Consiglio Superiore dei Lavori Pubblici - Servizio Tecnico Centrale;
- RFI DTC SI PS MA IFS 001 B Manuale di progettazione delle Opere Civili Parte II sezione 2 Ponti e Strutture;
- RFI DTC SI CS MA IFS 001 B Manuale di progettazione delle Opere Civili Parte II Sezione 3 Corpo Stradale; Capitolato delle Opere Civili rev. B.

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### 3. DOCUMENTI DI RIFERIMENTO

#### 3.1 Elaborati progettuali

- |      |                                |   |
|------|--------------------------------|---|
| [1]  | IN1711EI2RBGE0000004           | Relazione geotecnica  |
| [2]  | IN1710EI2EEOC0000003           | ELENCO ELABORATI  |
| [3]  | IN1712EI2PZRI77A7001           | RILEVATO FERROVIARIO DA PK 40+287,46 A PK 40+950,00; ALTAVILLA FASE 1 – Planimetria di tracciamento pali              |
| [4]  | IN1712EI2PZRI78A7001           | RILEVATO FERROVIARIO DA PK 40+950,00 A PK 41+615,35; ALTAVILLA FASE 1 – Planimetria di tracciamento pali              |
| [5]  | IN1712EI2PZRI79A7001           | RILEVATO FERROVIARIO DA PK 41+615,35 A PK 42+071,63; ALTAVILLA FASE 1 – Planimetria di tracciamento palo segnalamento |
| [6]  | IN1712EI2PZRI8107001           | RILEVATO FERROVIARIO DA PK 42+475,00 A PK 42+825,00; ALTAVILLA FASE 1 – Planimetria di tracciamento pali              |
| [7]  | IN1712EI2PZRI8207001           | RILEVATO FERROVIARIO DA PK 42+825,00 A PK 43+175,00; ALTAVILLA FASE 1 – Planimetria di tracciamento pali              |
| [8]  | IN1712EI2PZRI8307001           | RILEVATO FERROVIARIO DA PK 43+175,00 A PK 43+525,00; ALTAVILLA FASE 1 – Planimetria di tracciamento pali              |
| [9]  | IN1710EI2BZOC0000014           | CARPENTERIA E ARMATURA BLOCCO DI FONDAZIONE B0a   |
| [10] | IN1710EI2BZOC0000015           | CARPENTERIA E ARMATURA BLOCCO DI FONDAZIONE B1  |
| [11] | IN1710EI2BZOC0000016           | CARPENTERIA E ARMATURA BLOCCO DI FONDAZIONE P8D   |
| [12] | IN1710EI2BZOC0000017           | CARPENTERIA E ARMATURA BLOCCO DI FONDAZIONE P2MEC   |
| [13] | IN1710EI2BZOC0000018           | CARPENTERIA E ARMATURA BLOCCO DI FONDAZIONE POT   |
| [14] | IN1710EI2BZOC0000019           | CARPENTERIA E ARMATURA BLOCCO DI FONDAZIONE TTCa  |
| [15] | IN1710EI2BZOC0000020           | CARPENTERIA E ARMATURA BLOCCO DI FONDAZIONE TTBa  |
| [16] | IN1710EI2BZOC0000021           | CARPENTERIA E ARMATURA BLOCCO DI FONDAZIONE SEGNALE S43 S45   |
| [17] | IN1710EI2BZOC0000022           | CARPENTERIA E ARMATURA BLOCCO DI FONDAZIONE TTCa - INTEGRATIVO  |
| [18] | IN1710EI2CLOC0000001           | RELAZIONE DI CALCOLO BASAMENTI B0a  |
| [19] | IN1710EI2CLOC0000002           | RELAZIONE DI CALCOLO BASAMENTI B1   |
| [20] | IN1710EI2CLOC0000003           | RELAZIONE DI CALCOLO BASAMENTI P8D  |
| [21] | IN1710EI2CLOC0000004           | RELAZIONE DI CALCOLO BASAMENTI P2MEC  |
| [22] | IN1710EI2CLOC0000005           | RELAZIONE DI CALCOLO BASAMENTI POT  |
| [23] | IN1710EI2CLOC0000006           | RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45  |
| [24] | IN1710EI2CLOC0000007           | RELAZIONE DI CALCOLO BASAMENTO TTC – INTEGRATIVO  |
| [25] | IN1712EI2RHIZ22B0A01           | SBALZO SEGNALE S43 S45 km 191+760 - RELAZIONE DI CALCOLO  |
| [26] | IN1712EI2RHIZ22B0A01, ALLEGATO | SBALZO SEGNALE s43 s45 KM 191+760 – REAZIONI VINCOLARI  |

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#### 4. METODO DI CALCOLO

Il metodo di calcolo e di verifica utilizzato è quello degli stati limite (SLU-SLE). I risultati dell'analisi strutturale condotta per le singole condizioni di carico, moltiplicati da opportuni coefficienti e combinati in casi di carico, definiscono le sollecitazioni di calcolo delle membrature da verificare.

Le opere oggetto della presente relazione sono state progettate e calcolate secondo i metodi della scienza delle costruzioni, adottando per le verifiche il criterio degli stati limite (S.L.).

I criteri generali di sicurezza sono stati assunti in conformità con il D.M. 14.01.2008 – “Norme tecniche per le costruzioni” e relativa circolare esplicativa (Circolare 02.02.2009 n. 617/C.S.LL.PP.), nonché alle Istruzioni RFI/DTC/INC/PO/SP/IFS/001/A.

I carichi derivanti dalla struttura sovrastante sono stati determinati con riferimento alle norme tecniche NTC 2008 (rif. [25] [26]). Per essi si rimanda alla apposita documentazione tecnica prodotta da Saturno relativamente all'intera linea.

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## 5. CARATTERISTICHE DEI MATERIALI

### 5.1 Calcestruzzo

Per il magrone di sottofondazione si prevede l'utilizzo di calcestruzzo di classe Rck 15.

Per la realizzazione dei basamenti si prevede l'utilizzo di calcestruzzo avente classe di resistenza 25/30 ( $R_{ck} \geq 30$  N/mm<sup>2</sup>) che presenta le seguenti caratteristiche:

Resistenza caratteristica a compressione (cilindrica)	$f_{ck} = 0.83 \times R_{ck} = 24.90$ N/mm <sup>2</sup>
Resistenza media a compressione	$f_{cm} = f_{ck} + 8 = 32.90$ N/mm <sup>2</sup>
Modulo elastico	$E_{cm} = 5700 \cdot \sqrt{R_{ck}} = 31220$ N/mm <sup>2</sup>
Resistenza di calcolo a compressione	$f_{cd} = \alpha_{cc} \cdot f_{ck} / \gamma_c = 0.85 \cdot f_{ck} / 1.6 = 13.28$ N/mm <sup>2</sup>
Resistenza a trazione media	$f_{ctm} = 0.27 \cdot R_{ck}^{2/3} = 2.60$ N/mm <sup>2</sup>
Resistenza a trazione	$f_{ctk} = 0.7 \cdot f_{ctm} = 1.79$ N/mm <sup>2</sup>
Resistenza a trazione di calcolo	$f_{ctd} = f_{ctk} / \gamma_c = 1.12$ N/mm <sup>2</sup>

### 5.2 Acciaio per cemento armato

Per le armature metalliche si adottano tondini in acciaio del tipo B450C saldabile, controllato in stabilimento e che presentano le seguenti caratteristiche:

Proprietà	Requisito
Limite di snervamento $f_y$	$\geq 450$ MPa
Limite di rottura $f_t$	$\geq 540$ MPa
Allungamento totale al carico massimo $A_{gt}$	$\geq 7.5\%$
Rapporto $f_t/f_y$	$1,15 \leq R_m/R_e \leq 1,35$
Rapporto $f_{y \text{ misurato}}/f_{ynom}$	$\leq 1,25$

Tensione di snervamento caratteristica  $f_{yk} \geq 450$  N/mm<sup>2</sup>

Tensione caratteristica a rottura  $f_{tk} \geq 540$  N/mm<sup>2</sup>

### 5.3 Durabilità e prescrizioni sui materiali

Per garantire la durabilità delle strutture in calcestruzzo armato ordinario, esposte all'azione dell'ambiente, si devono adottare i provvedimenti atti a limitare gli effetti di degrado indotti dall'attacco chimico, fisico e derivante dalla corrosione delle armature e dai cicli di gelo e disgelo.

Al fine di ottenere la prestazione richiesta in funzione delle condizioni ambientali, nonché per la definizione della relativa classe, si fa riferimento alle indicazioni contenute nelle Linee Guida sul calcestruzzo strutturale edite dal Servizio Tecnico Centrale del Consiglio Superiore dei Lavori Pubblici ovvero alle norme UNI EN 206-1:2006 ed UNI 11104:2004.

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Per le opere della presente relazione si adotta quanto segue:

Fondazione                              CLASSE DI ESPOSIZIONE      XC2

**Copriferro minimo:**

cm 8 per le superfici orizzontali verticali a contatto con il terreno

cm. 4 (minimo) per le altre superfici (verso l'esterno)

(rif. DITCTE STC/TE 671 foglio 14 di 22 - II 2.2.2. Ricoprimento ferro per fondazioni armate)



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## 6. PARAMETRI SISMICI

Le opere sono ubicate nel comune di Altavilla Vicentina.

Si assumono:

Vita nominale  $V_N = 50$  anni

Classe d'uso della costruzione: III, coefficiente  $C_u=1.5$ ;

Periodo di riferimento  $V_R=75$  anni.

I corrispondenti valori delle caratteristiche sismiche per lo SLV ( $P_{VR} = 10\%$ ) sono i seguenti:

$$a_g = 0.173g$$

$$F_0 = 2.441;$$

$$T^*_c = 0.285 \text{ s};$$

Per quanto riguarda il sottosuolo su cui insiste l'opera, si assume che ricada in categoria sismica "C" e categoria topografica "T1". I coefficienti di amplificazione stratigrafica e topografica risultano quindi:

$$S_S = 1.447$$

$$S_T = 1.0$$

L'accelerazione massima orizzontale viene valutata pari a:

$$a_{\max} (\text{SLV}) = S a_g = 0.173 \times 1.00 \times 1.447 g = 0.250 g$$

da cui si ottiene:

$$k_h = 0.250 g$$

$$k_v = \pm 0.125 g$$

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## 7. PARAMETRI GEOTECNICI

Sulla base della Relazione geotecnica (da 33+500 a 44+250) - di cui rif. § 3.1, di seguito si riassume la stratigrafia di progetto e i parametri geotecnici caratteristici come risultato della campagna indagini.

I terreni rinvenuti lungo il tracciato sono stati raggruppati in Unità geotecniche di riferimento. Nel tratto oggetto della presente relazione, sono state individuate le seguenti unità (a partire dal p.c.):

- Limi argillosi compatti (Unità 2). Sono generalmente presenti sia in strati superficiali, per profondità dai 3 m ai 15 m da p.c., sia in profondità, intercalati nello strato ghiaioso. Si tratta di depositi a grana fine sovraconsolidati, da poco plastici a plastici, compatti.
- Depositi ghiaiosi (Unità 6). Si tratta in genere di ghiaie con sabbie e sabbiose, limose o debolmente limose, presenti praticamente lungo tutto il tratto esaminato.

La stratigrafia di calcolo valida tra le progressive da pk 40+750 a pk 44+250 - Figura 1 - è caratterizzata da uno strato superficiale di limi argillosi da debolmente sabbiosi a sabbiosi, con spessori variabili generalmente fra 3 e 8 m (unità 2), seguito da uno spesso strato di ghiaia fino alle massime profondità indagate (unità 6).

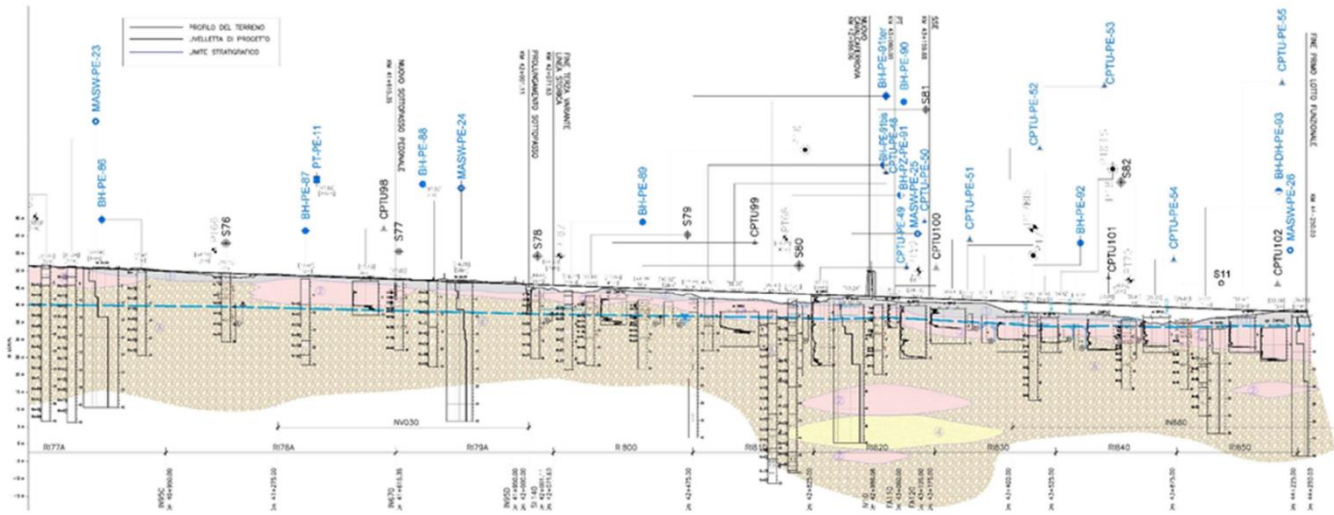


Figura 48 – Profilo geotecnico, da pk 40+750 a pk 44+250

Figura 1 – Profilo geotecnico (stralcio), da pk 40+750 a pk 44+250

La Tabella 1 riassume i parametri geotecnici caratteristici delle unità di riferimento.

Tabella 21 - Parametri geotecnici caratteristici per la tratta dalla 39+200 alla 44+250

Unità	$\gamma$ (kN/m <sup>3</sup> )	Dr (%)	c' (kPa)	$\phi'$ (°)	Vs (m/s)	G0 (MPa)	E' (MPa)	c <sub>u</sub> (kPa)	$\sigma'_p$ (kPa)
2	18-19	-	0-10	26-30	100-200	20-90	10-30 <sup>(1)</sup> 25-50	50-120 <sup>(1)</sup> 120-200 <sup>(2)</sup>	150-300 <sup>(1)</sup>
6	19-20	25-60	0	39-41	250-400	120-300	50-240	-	-

Note

(1) Valori nei primi 5-10 m

(2) Valori per strati fini in profondità

Tabella 1. Parametri geotecnici caratteristici

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Ai fini del presente Progetto, per un'adeguata modellazione delle opere previste, è stata assunta una stratigrafia operativa semplificata e uniforme, considerando la sola Unità 2 con le seguenti caratteristiche resistive:

$$\gamma_k = 18-19 \text{ kN/m}^3;$$

$$\phi'_k = 28^\circ;$$

$$c'_k = 5 \text{ kPa};$$

$$C_{u_k} = 70 \text{ kPa}.$$

Il valore della coesione non drenata è relativo ai valori osservati nella tratta come riportato nel sottostante grafico riportato nella citata relazione geotecnica di tratta, considerato che i plinti verranno realizzati in fregio alla linea esistente e che quindi il terreno risulta già consolidato dai carichi applicati nel tempo dalla massicciata ferroviari e dai carichi su di essa gravanti.

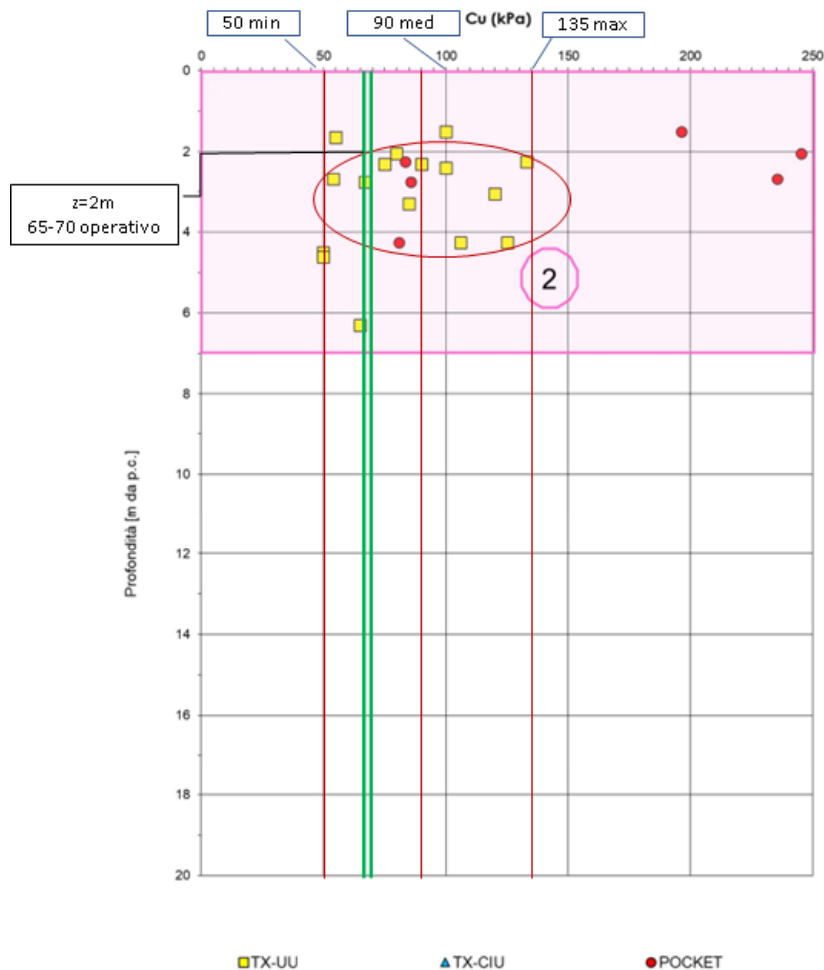


Figura 31 – Resistenza al taglio non drenata stimata da prove di laboratorio Unità 2, tra pk 39+200 e pk 44+250

La falda di progetto è assunta a quota imposta delle fondazioni.

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## 8. CRITERI DI VERIFICA GLOBALE

### 8.1 Verifica a ribaltamento

La verifica a ribaltamento consiste nel determinare il momento risultante di tutte le forze che tendono a fare ribaltare il plinto (momento ribaltante  $E_d$ ) ed il momento risultante di tutte le forze che tendono a stabilizzare il plinto (momento stabilizzante  $R_d$ ) rispetto al punto di rotazione e verificare che il rapporto  $R_d/E_d$  sia maggiore di 1.

$$R_d/E_d \geq 1$$

L'azione ribaltante è dovuta ai carichi derivanti dalla struttura metallica e dalla sua azione inerziale in presenza di sisma, mentre il contributo stabilizzante dal peso del basamento e dall'azione verticale della sovrastruttura. I plinti in esame sono totalmente immersi nel terreno e si muovono con esso pertanto non sono soggetti ad azioni inerziali proprie e dovute alle spinte del terreno.

A favore di sicurezza si trascura comunque il contributo stabilizzante del terreno laterale, considerando pertanto l'opera a gravità.

### 8.2 Verifica a carico limite

Il rapporto fra il carico ultimo in fondazione e la risultante dei carichi indotta dal muro sul terreno di fondazione deve essere superiore ad 1. Detto  $E_d$  il carico gravante in fondazione e  $R_d$  il carico ultimo in fondazione, ridotto globalmente di un certo coefficiente di sicurezza  $\gamma_R$  funzione dell'approccio utilizzato, deve risultare:

$$R_d/E_d \geq 1$$

Nella definizione di  $E_d$  e di  $R_d$  concorrono inoltre i fattori parziali di sicurezza sulle azioni e sui parametri geotecnici funzione dell'approccio utilizzato.

In particolare, si assume l'approccio 2 (A1+M1+R3) secondo i coefficienti riportati in NTC2008.

La capacità portante allo stato limite ultimo è stata calcolata con riferimento alle relazioni proposte da Brinch-Hansen:

$$R_d = \frac{1}{\gamma_R} [5.14 \cdot c_u \cdot (1 + s'_c) \cdot i'_c + \gamma_1 \cdot D] \quad \text{BREVE TERMINE}$$

$$R_d = \frac{1}{\gamma_R} \left[ \gamma_1 \cdot D \cdot N_q \cdot s_q \cdot i_q + \frac{1}{2} \cdot \gamma_2 \cdot B \cdot N_v \cdot s_v \cdot i_v \right] \quad \text{LUNGO TERMINE}$$

dove:

- $R_d$  = resistenza unitaria limite di progetto;
- $\gamma_R$  = coefficiente parziale in accordo con l'approccio 2 (A1+M1+R3) delle NTC2008;
- $\gamma_1$  = peso di volume del terreno sopra il piano di posa della fondazione;
- $D$  = profondità della fondazione dalla quota finale del terreno;
- $\gamma_2$  = peso di volume del terreno sotto il piano di posa della fondazione;
- $B$  = larghezza della fondazione;
- $N_q, N_v$  = coefficienti adimensionali di capacità portante;
- $s_q, s_v$  = coefficienti adimensionali di forma.

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$i_y, i_q, i'_c$  = coefficienti di inclinazione del carico

I coefficienti di capacità portante e di forma sono calcolati con le seguenti relazioni:

$$N_q = \exp\{\pi \tan \phi_d\} \cdot \tan^2 \left( \frac{\pi}{4} + \frac{\phi_d}{2} \right)$$

$$N_y = 1.5 \cdot (N_q - 1) \tan \phi_d$$

$$s_q = 1 + \frac{B}{L} \cdot \tan \phi_d$$

$$s_y = 1 - 0.4 \cdot \frac{B}{L}$$

$$s_c = 0.2 \cdot \frac{B}{L}$$

$$i'_c = 1 - \frac{m \cdot H}{B \cdot L \cdot c_u \cdot 5.14}$$

$$i_q = \left( 1 - \frac{H}{N + B \cdot L \cdot c' \cdot \cot \varphi} \right)^m$$

$$i_y = \left( 1 - \frac{H}{N + B \cdot L \cdot c' \cdot \cot \varphi} \right)^{m+1}$$

dove:

$\tan \phi_d$  = tangente dell'angolo d'attrito di progetto:  $\tan \phi_d = \frac{\tan \varphi}{\gamma_\varphi}$

B, L = dimensioni della fondazione

H = carico orizzontale

coefficienti m  $m = \frac{2+B/L}{1+B/L}$

Riguardo la verifica di capacità portante della fondazione in condizioni sismiche, sono stati introdotti i fattori correttivi sismici in accordo con Paolucci e Pecker (1997); sono riportati di seguito:

$$z_y = z_q = (1 - k_h / \tan \varphi)^{0.35}$$

$$z_c = 1 - 0.32 \cdot k_h$$

con  $k_h$  coefficiente sismico  $k_h = \beta \cdot a_{\max}$ :

$a_{\max}$  è l'accelerazione orizzontale massima attesa al sito;

$\beta$  è il coefficiente di riduzione dell'accelerazione massima orizzontale attesa al sito.

Sulla base delle azioni in fondazione (verticali, orizzontali e momenti) derivanti dall'analisi strutturale, il calcolo del carico limite di progetto ( $R_d$ ) è stato effettuato considerando una fondazione equivalente con dimensioni ridotte:

$$B_r = B - 2e_x$$

$$L_r = L - 2e_y$$

dove  $e_x$  ed  $e_y$  sono le eccentricità in direzione x e y e valgono rispettivamente:  $M_y/F_z$  e  $M_x/F_z$ .

La Figura 2 illustra le convenzioni di segno e uno schema della fondazione equivalente.

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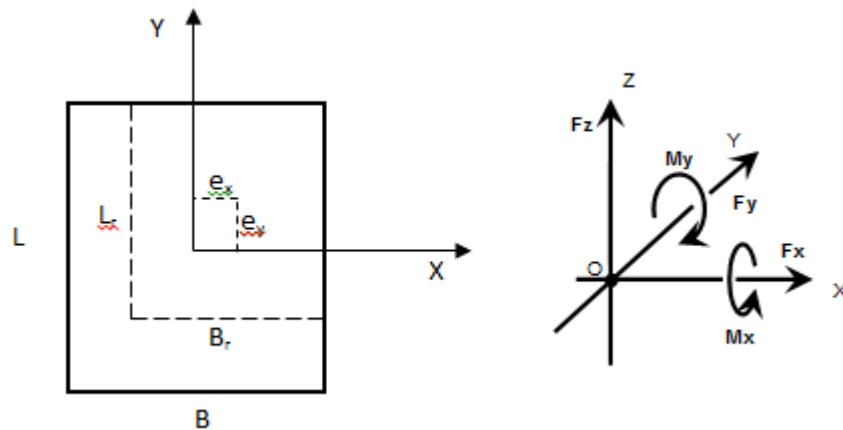


Figura 2- Fondazione equivalente

Il valore dell'azione di calcolo  $E_D$  deve essere confrontato con la resistenza ultima del sistema fondazione –terreno  $R_D$ ; deve risultare  $E_D \leq R_D$ .

#### Influenza della falda

Il carico limite è influenzato dalla presenza della falda sotto il piano di posa della fondazione nel caso in cui la distanza  $z_w$  risulti inferiore alla larghezza della fondazione  $B$  (Figura 3).

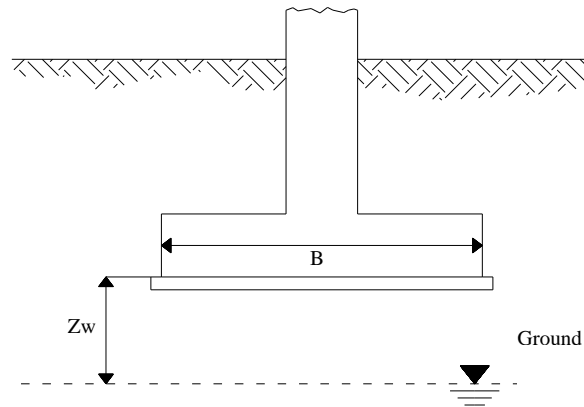


Figura 3 - Influenza della falda

In questo caso infatti la falda, ricadendo all'interno dell'area d'influenza della fondazione, comporta una riduzione del peso di volume del terreno sottostante la fondazione  $\gamma_2$  che viene calcolato come segue:

$$\gamma_2 = (\gamma - 10) + \frac{z_w}{B} \cdot 10 \quad \text{se } 0 \leq z_w \leq B$$

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### 8.3 Verifica a scorrimento

La verifica a scorrimento risulta soddisfatta se il rapporto fra la risultante delle forze resistenti allo scivolamento  $R_d$  e la risultante delle forze che tendono a fare scorrere il muro  $E_d$  risulta maggiore di 1.

Deve quindi essere verificata la seguente disequaglianza

$$R_d/E_d \geq 1$$

Nella definizione di  $E_d$  ed  $R_d$  concorrono inoltre i fattori parziali di sicurezza sulle azioni e sui parametri geotecnici funzione dell'approccio utilizzato.

In particolare, si assume l'approccio 2 (A1+M1+R3) secondo i coefficienti riportati in NTC2008.

La resistenza limite unitaria allo scorrimento è:

$$\tau_{lim} = \sigma \cdot \tan(\delta \varphi)$$

con:

$\sigma$  = pressione trasmessa dalla fondazione;

$\varphi$  = angolo d'attrito del terreno di fondazione, opportunamente ridotto secondo normativa;

$\delta$  = coefficiente riduttivo dell'angolo di attrito = 0,8 per aderenza cls/terreno.

La resistenza allo scorrimento è:

$$T_d = \frac{T}{\gamma_R} = \frac{\tau \cdot B \cdot L}{\gamma_R}$$

La resistenza limite allo scorrimento, funzione della coesione non drenata, è calcolata come segue:

$$T_d = \frac{T}{\gamma_R} = \frac{c_u \cdot B \cdot L}{\gamma_R}$$

I coefficienti parziali da applicare ( $\gamma_R$ ) sono illustrati in Tabella 2.

Tabella 2- Coefficienti parziali – Resistenza allo scorrimento

Resistenza	Coefficiente parziale (R1)	Coefficiente parziale (R2)	Coefficiente parziale (R3)
Scorrimento	$\gamma_R = 1.0$	$\gamma_R = 1.1$	$\gamma_R = 1.1$

## 9. CRITERI DI VERIFICA STRUTTURALE

Le verifiche sono condotte secondo il metodo agli stati limite in accordo alle formulazioni riportate nel capitolo 4 di NTC 2008.

I carichi forniti dal progettista Saturno sono riportati negli appositi elaborati relativi all'intera linea a cui si rimanda per ulteriori dettagli.

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## 10. CRITERI DI CALCOLO DELLE SPINTE

Di seguito si riportano i criteri generali per il calcolo delle spinte laterali.

### Spinte attive in condizioni statiche

Ad una generica profondità  $z$ , nel caso di terreno puramente granulare, lo sforzo orizzontale totale sulla parete è dato da:

$$\sigma_A(z) = K_A \cdot [\sigma_v(z) - u(z)] + u(z)$$

in cui

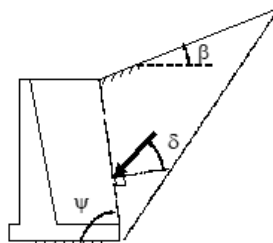
$\sigma_v(z)$  = sforzo verticale totale alla generica profondità, ossia il peso della colonna di terreno e di acqua soprastante la quota  $z$ .

$u(z)$  = pressione dell'acqua alla generica profondità

Il coefficiente di spinta attiva  $K_A$  viene valutato con le note formule derivate dalla teoria di Coulomb e sviluppate da Muller-Breslau.

#### CONDIZIONI DI SPINTA ATTIVA Teoria di Coulomb

$$K_A = \frac{\sin^2(\psi + \phi)}{\sin^2\psi \sin(\psi - \delta) \left[ 1 + \frac{\sin(\phi + \delta) \sin(\phi - \beta)}{\sin(\psi - \delta) \sin(\psi + \beta)} \right]^2}$$



### Spinte passive in condizioni statiche

Ad una generica profondità  $z$ , nel caso di terreno puramente granulare, lo sforzo orizzontale totale sulla parete è dato da:

$$\sigma_p(z) = K_p \cdot [\sigma_v(z) - u(z)] + u(z)$$

in cui

$\sigma_v(z)$  = sforzo verticale totale alla generica profondità, ossia il peso della colonna di terreno e di acqua soprastante la quota  $z$ .

$u(z)$  = pressione dell'acqua alla generica profondità

Il coefficiente di spinta passiva  $K_p$  viene valutato con la formula di Lancellotta (2006) considerando  $\tan\theta$  pari a 0.

$$K_{p,E} = \left[ \frac{\cos \delta}{\cos(\beta - \theta) - \sqrt{\sin^2 \phi - \sin^2(\beta - \theta)}} \times \left( \cos \delta + \sqrt{\sin^2 \phi - \sin^2 \delta} \right) \right] \cdot e^{2\alpha \tan(\phi)}$$

$$2\alpha = \arcsin\left(\frac{\sin \delta}{\sin \phi}\right) + \arcsin\left(\frac{\sin(\beta - \theta)}{\sin \phi}\right) + \delta + (\beta - \theta) + 2\theta$$



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### Spinte attive in condizioni sismiche

Nell'ambito dell'approccio pseudo-statico, il sistema è pensato soggetto ad un'accelerazione sismica uniforme avente le seguenti componenti

$$\text{Orizzontale} = k_h \cdot g - \text{Verticale} = \pm k_v \cdot g$$

La spinta totale attiva su un paramento di altezza pari ad H è data da:

$$E_d = \frac{1}{2} \gamma^* (1 \pm k_v) K_{A,E} H^2 + E_{ws} + E_{wd}$$

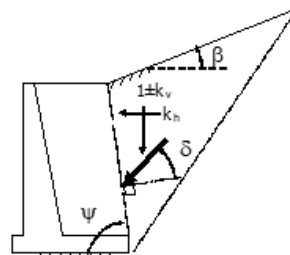
Il primo termine è la spinta attiva dovuta allo scheletro solido, il secondo termine  $E_{ws}$  è la risultante delle pressioni idrostatiche ed il terzo  $E_{wd}$  è la risultante delle sovrappressioni interstiziali.

I coefficienti di spinta attiva sono dati dalle seguenti espressioni (Mononobe & Okabe, nel seguito M-O):

#### CONDIZIONI DI SPINTA ATTIVA – Teoria di M-O

$$\beta \leq \phi - \theta: \quad K_{A,E} = \frac{\sin^2(\psi + \phi - \theta)}{\cos \theta \sin^2 \psi \sin(\psi - \theta - \delta) \left[ 1 + \frac{\sin(\phi + \delta) \sin(\phi - \beta - \theta)}{\sin(\psi - \theta - \delta) \sin(\psi + \beta)} \right]^2}$$

$$\beta > \phi - \theta: \quad K_{A,E} = \frac{\sin^2(\psi + \phi - \theta)}{\cos \theta \sin^2 \psi \sin(\psi - \theta - \delta)}$$



A seconda della definizione del peso specifico  $\gamma^*$  del cuneo e dell'angolo  $\theta$  definito come l'angolo, rispetto alla verticale, fra le azioni esterne orizzontali e quelle verticali agenti sul cuneo di spinta di volume V, l'espressione generale può essere utilizzata per tre diverse condizioni nelle quali può trovarsi il rilevato.

#### Rilevato asciutto

Non c'è alcuna azione dovuta all'acqua: corrisponde alla configurazione originale ipotizzata da M-O. Come peso specifico  $\gamma^*$  si deve assumere il peso secco  $\gamma_d$ ; la forza orizzontale  $F_h$  è pari alla massa del terreno moltiplicata per l'accelerazione orizzontale mentre la forza verticale  $F_v$  è il peso del cuneo incrementato o decrementato dall'accelerazione sismica verticale; quindi:

$$\gamma^* = \gamma_d$$

$$\tan \theta = \frac{k_h}{1 \pm k_v}$$

$$E_{ws} = E_{wd} = 0$$

#### Rilevato saturo a grana fine (dinamicamente impervio: $k < 5 \cdot 10^{-4} \text{ m/s}$ )

In sostanza si assume che l'acqua, imprigionata negli interstizi, si muova insieme con il terreno: l'accelerazione sismica agirà quindi sulla massa complessiva (terreno+acqua) del cuneo, pari a  $V \cdot \gamma_{sat}$ . Si ammette che le pressioni interstiziali non subiscano variazioni ai fini del calcolo delle azioni sulla parete. In questo caso l'equilibrio limite del cuneo è fatto al netto della risultante delle azioni idrostatiche e quindi, nelle formule generali, si assumerà:

$$\gamma^* = \gamma'$$

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$$\tan \theta = \frac{\gamma_{\text{sat}}}{\gamma'} \frac{k_h}{1 \pm k_v}$$

Alla spinta efficace dovrà essere aggiunta la spinta idrostatica dell'acqua, mentre, per ipotesi, la componente idrodinamica non può svilupparsi. Quindi:

$$E_{ws} = E_{wd} = 0$$

*Rilevato saturo a grana grossa (dinamicamente permeabile:  $k > 5 \cdot 10^{-4}$  m/s)*

Si ammette che l'acqua negli interstizi possa muoversi liberamente, indipendentemente dalle deformazioni subite dal terreno: l'accelerazione sismica agirà quindi sulla massa della sola parte solida del cuneo, pari a  $V \cdot \gamma_d$ . L'equilibrio limite del cuneo è fatto al netto della risultante delle pressioni interstiziali e quindi, nelle formule generali, si assumerà:

$$\gamma^* = \gamma'$$

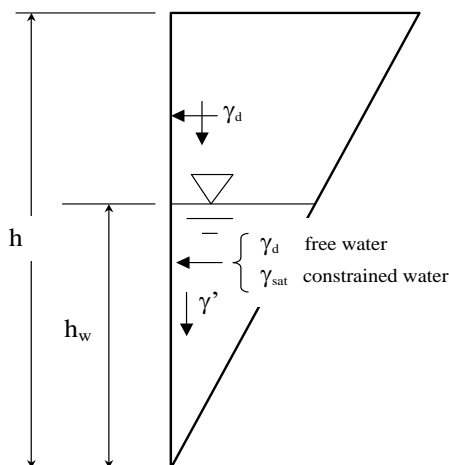
$$\tan \theta = \frac{\gamma_d}{\gamma'} \frac{k_h}{1 \pm k_v}$$

In questo caso dovranno essere aggiunte sia la spinta idrostatica sia la sovraspinta idrodinamica della stessa acqua di falda.

$$E_{ws} = \frac{1}{2} \gamma_w H^2$$

$$E_{wd} = \frac{7}{12} k_h \gamma_w H^2 \quad \text{con } H' = \text{altezza della freatica dal piede del muro.}$$

*Rilevato parzialmente immerso*



Ebeling e Morrison (1992) indicano il modo per utilizzare, anche in questo caso, le equazioni di M-O: sostanzialmente questo caso può essere assimilato a quello di un terrapieno completamente immerso omogeneo, avente un peso specifico equivalente. Per calcolare la risultante delle spinte, si potrà operare come segue. Si definiscono i pesi specifici medi da associare rispettivamente alla componente efficace verticale ed alla componente laterale

$$\gamma_v^* = \left( \frac{h_w}{h} \right)^2 \cdot \gamma' + \left[ 1 - \left( \frac{h_w}{h} \right)^2 \right] \cdot \gamma_d$$

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$$\gamma_H^* = \begin{cases} \gamma_d & \text{se terreno din. permeabile} \\ \left(\frac{h_w}{h}\right)^2 \cdot \gamma_{sat} + \left[1 - \left(\frac{h_w}{h}\right)^2\right] \cdot \gamma_d & \text{se terreno din. impervio} \end{cases}$$

Definendo

$$\tan \theta = \frac{\gamma_H^* k_h}{\gamma_V^* (1 - k_v)}$$

si applicheranno poi le relazioni precedentemente descritte.

Punto di applicazione delle spinte attive sismiche

Considerato che la spinta attiva complessiva è in generale composta da tre termini, occorre calcolare il punto di applicazione di ognuno di essi

1. Componente associata allo scheletro solido: è applicata come nel caso statico
2. Componente idrostatica: è applicata come nel caso statico
3. Componente idrodinamica (Ewd): se esiste, è applicata considerando la seguente distribuzione di pressioni:

$$qwd(z) = \pm \frac{7}{8} k_h \gamma_w \sqrt{H \cdot z} \quad \text{con } z \text{ quota del generico punto rispetto la base della parete.}$$

### Spinte passive in condizioni sismiche

Si applicano in analogia le formulazioni descritte nel caso di spinta attiva.

Il coefficiente di spinta passiva è con la formula di Lancellotta (2006).

$$K_{P,E} = \left[ \frac{\cos \delta}{\cos(\beta - \theta) - \sqrt{\sin^2 \phi - \sin^2(\beta - \theta)}} \times \left( \cos \delta + \sqrt{\sin^2 \phi - \sin^2 \delta} \right) \right] \cdot e^{2\alpha \tan(\phi)}$$

$$2\alpha = \arcsin\left(\frac{\sin \delta}{\sin \phi}\right) + \arcsin\left(\frac{\sin(\beta - \theta)}{\sin \phi}\right) + \delta + (\beta - \theta) + 2\theta$$

NOTE:

- Nell'ambito dell'approccio 2 la spinta passiva è ridotta del coefficiente parziale  $\gamma_R = 1.4$  (R3)

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## 11. SCARICHI A TESTA BASAMENTO

Le azioni agenti in testa al plinto di fondazione vengono fornite dalla analisi svolta sulla struttura in acciaio soprastante riportate nei documenti redatti da Saturno relativi all'intera linea, nel seguito si riportano le azioni alla base derivanti dalla analisi e utilizzate per la verifica del basamento in C.A.. In allegato 1 sono riportati gli scarichi a base struttura in acciaio comunicati da Saturno.

Vengono utilizzate le combinazioni che massimizzano le varie sollecitazioni. Se ne riporta di seguito la tabella desunta dalle combinazioni di carico fornite da Saturno nell'ambito del piano di elettrificazione della linea. I carichi sono calcolati con riferimento alle NTC 2008 (rif. [25] [26]).

combo azioni	Rx kN	Ry kN	N kN	Mx kNm	My kNm	Mz kNm
1620	<b>-23.7</b>	-4.2	-57.9	67.9	-167.8	-41.6
1088	<b>24.4</b>	4.2	-56.0	52.2	179.8	44.8
4872	-5.8	<b>-28.2</b>	-64.9	322.8	-41.5	0.6
4865	5.8	<b>28.2</b>	-43.9	-224.7	46.4	-0.6
3738	0.7	-14.9	<b>-88.0</b>	194.0	10.8	2.9
4869	-6.4	28.0	<b>-43.7</b>	-222.9	-47.8	1.4
4865	5.8	28.2	-43.9	<b>-224.7</b>	46.4	-0.6
4896	-5.6	-28.2	-66.3	<b>329.0</b>	-39.5	1.5
1622	-23.7	-6.4	-51.0	93.5	<b>-168.8</b>	-42.0
1096	24.4	-4.2	-69.9	100.0	<b>181.6</b>	44.8
1621	-23.7	-14.9	-57.9	131.2	-167.8	<b>-42.0</b>
1364	24.4	11.5	-59.5	0.6	180.3	<b>45.2</b>

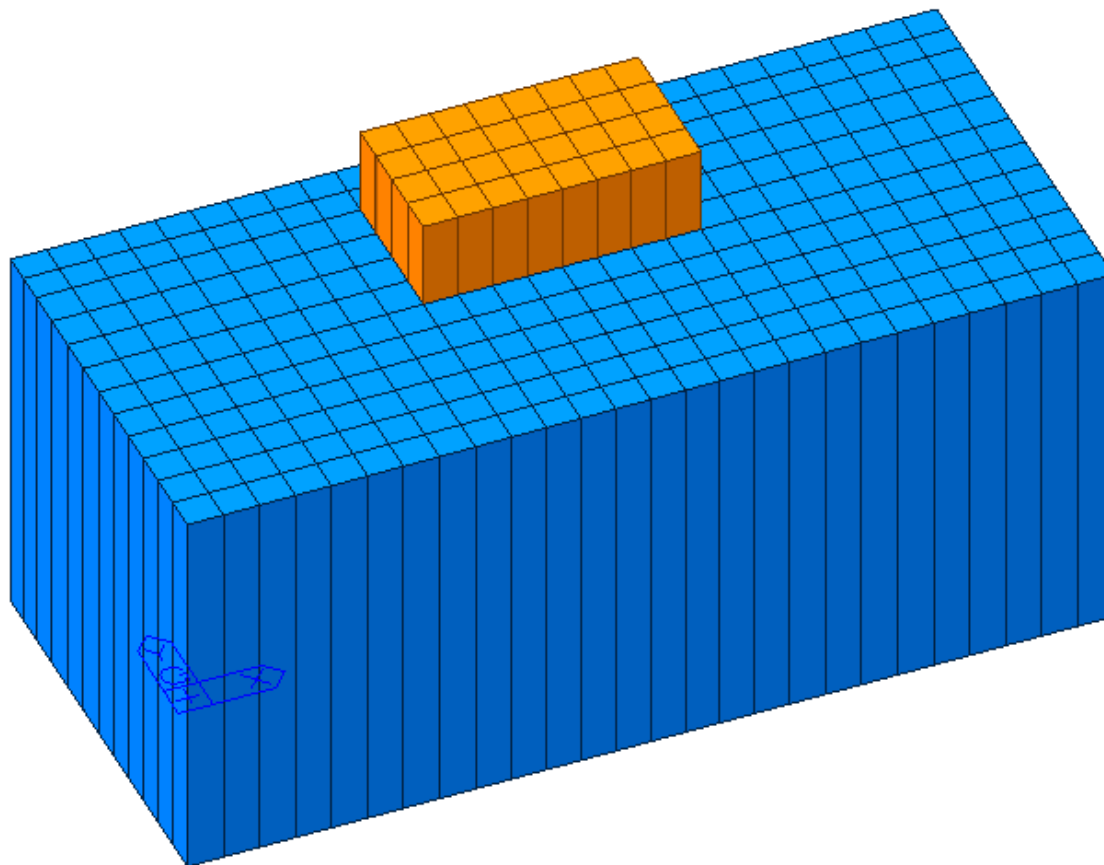
## 12. ANALISI STRUTTURALE

L'analisi per valutare il comportamento degli elementi strutturali previsti a progetto è stata eseguita sviluppando un modello ad elementi finiti tridimensionale con il software di calcolo MIDAS GEN. Sono stati utilizzati elementi di tipo bidimensionali "plate". Nel seguito sono mostrate le caratteristiche del modello di calcolo (i.e. geometria, vincoli e azioni interne / pressioni al suolo). La geometria rispecchia quella descritta nell'elaborato grafico di progetto. I vincoli applicati sono rigidi in direzione orizzontali, mentre nella direzione verticale l'interazione suolo – struttura viene modellato per mezzo di un suolo alla Winkler, ovvero tramite molle lineari reagenti alla sola compressione. La rigidezza in termini di costante di sottofondo è determinata in accordo a valori caratteristici in accordo con la Teoria e tecnica delle strutture di Pietro Pozzati – rif Tabella 3.

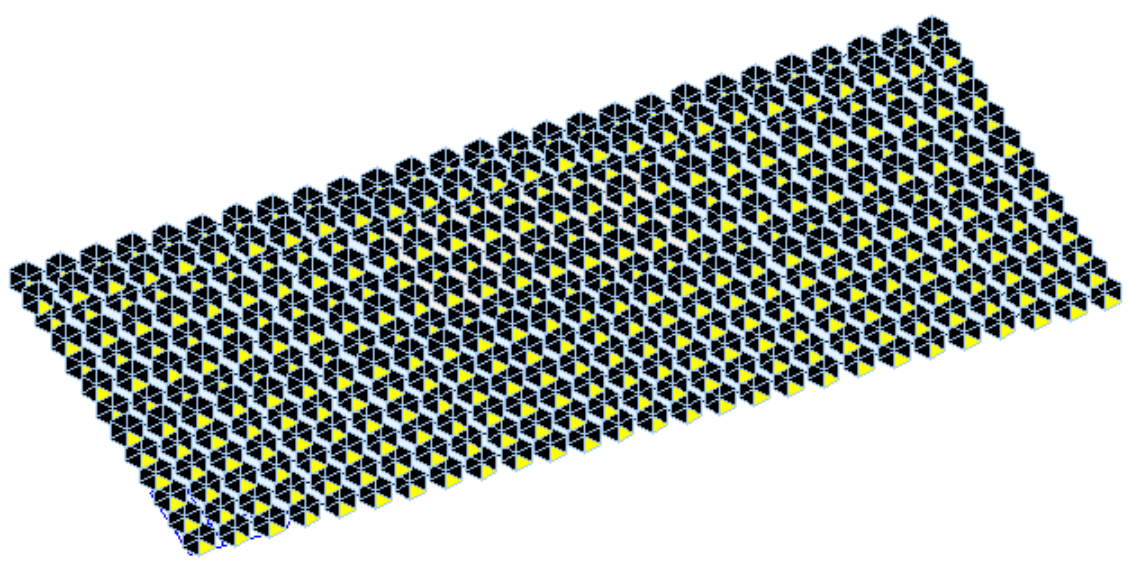
La rigidezza delle molle viene assunta, coerentemente con le caratteristiche del terreno, pari a 30000kN/mc.

TERRENO	COSTANTE DI SOTTOFONDO [Kg/cm <sup>3</sup> ]
Torba leggera	0.6 ~1.2
Torba pesante	1.2 ~1.8
Terra vegetale	1.0 ~1.5
Depositi recenti	1.0 ~2.0
Sabbia di mare fina	1.5 ~2.0
Sabbia poco coerente	2.0 ~4.0
Terra molto umida	2.0 ~3.5
Terra poco umida	3.0 ~6.0
Terra secca	5.0 ~10.0
Argilla con sabbia	8.0 ~10.0
Argilla grassa	10.0 ~12.0
Sabbia compatta	8.0 ~15.0
Ghiaia con sabbia	10.0 ~25.0
Ghiaia compatta	20.0 ~30.0

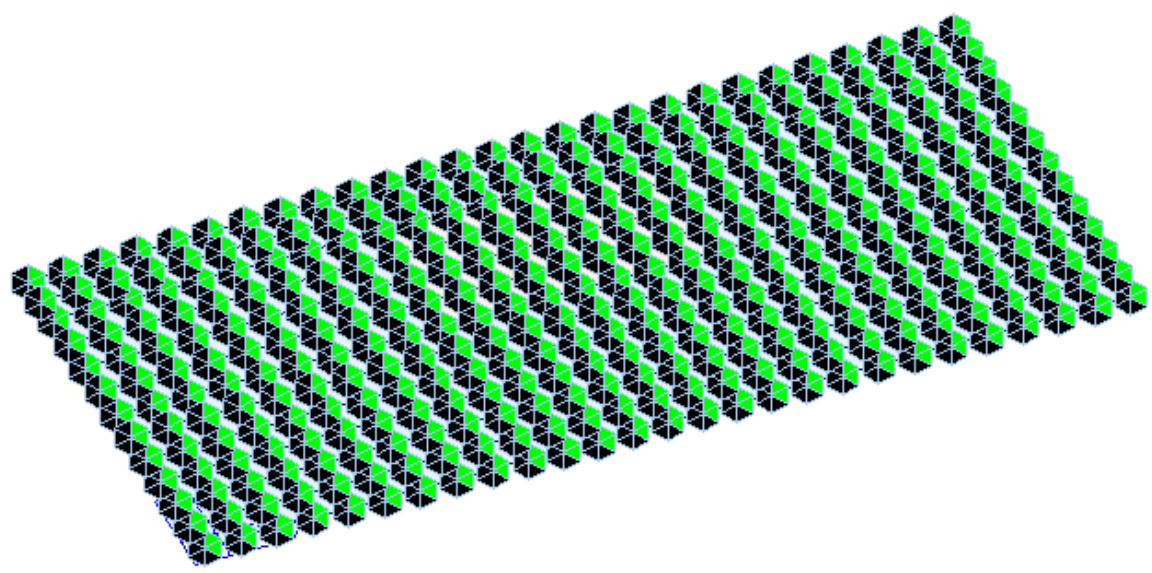
Tabella 3: Valori di costante di sottofondo, Pozzati



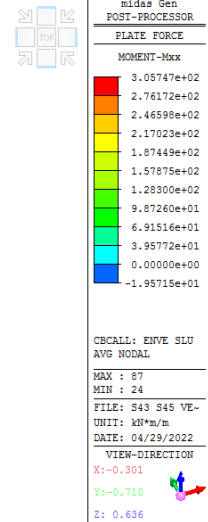
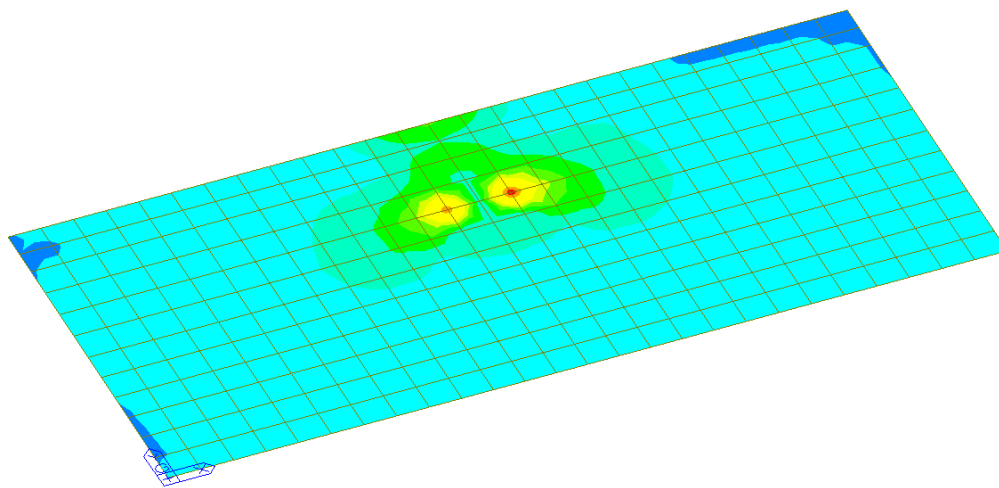
Vista modello FEM 3D



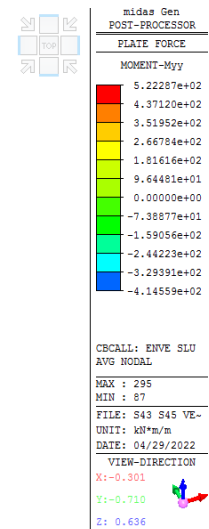
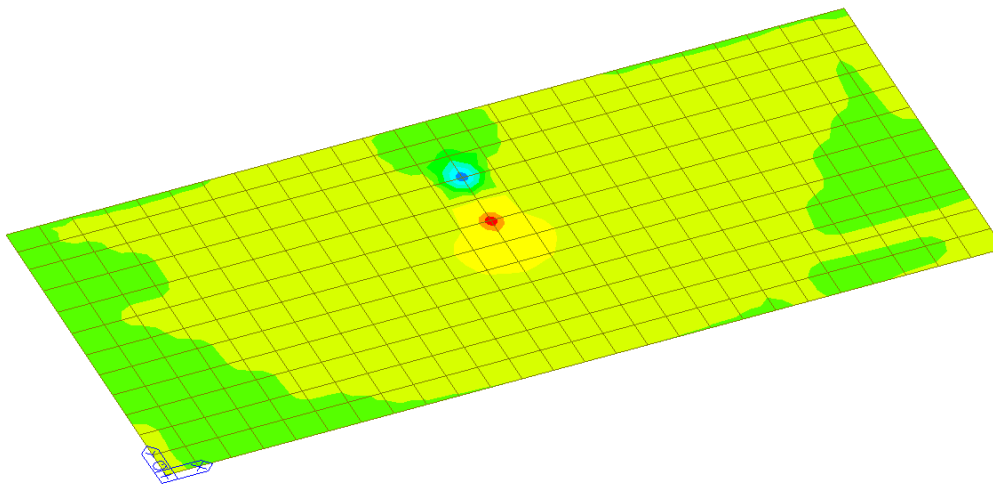
*Vista modello FEM – molle lineari*



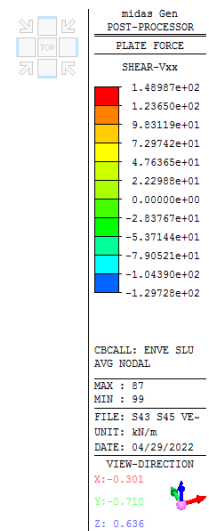
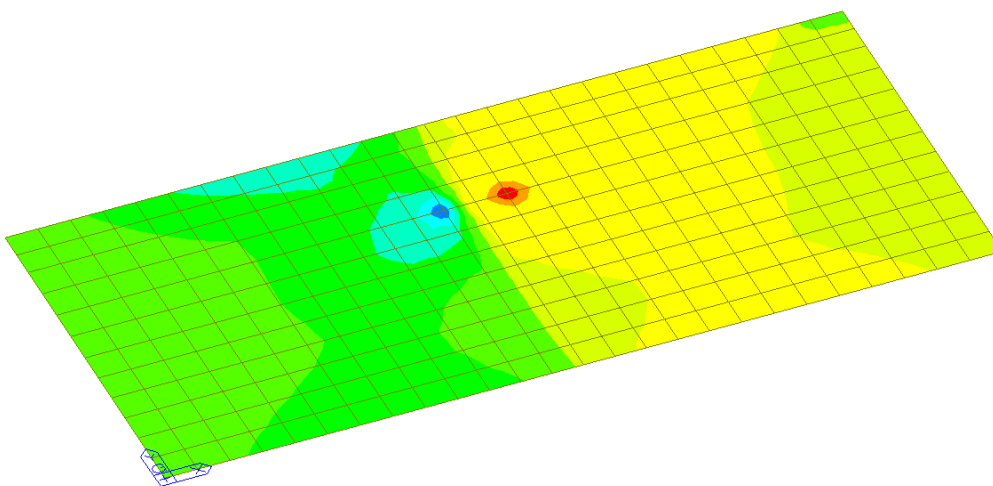
*Vista modello FEM – vincoli fissi nelle direzioni orizzontali*



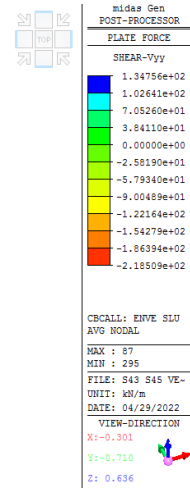
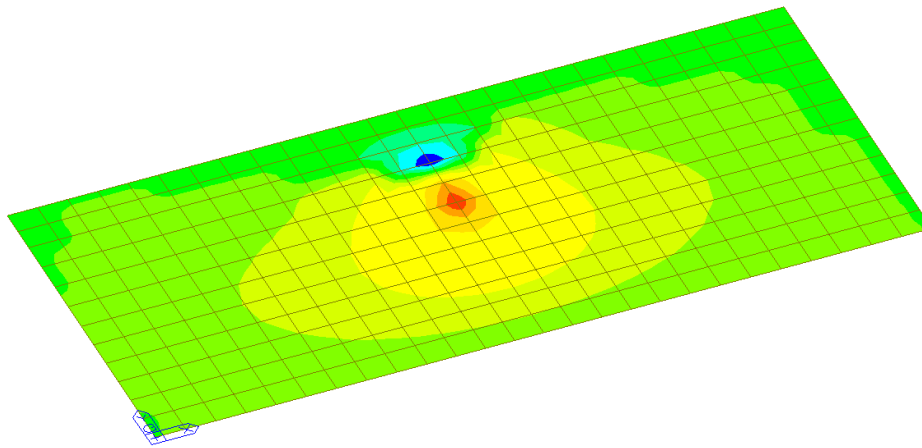
**Inviluppo combinazioni SLU – Azione flettente Mxx (inviluppo in valore assoluto)**



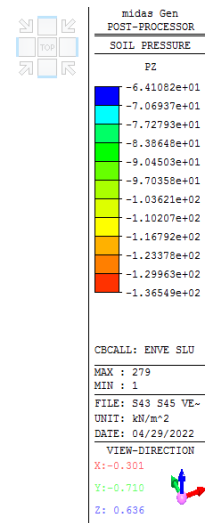
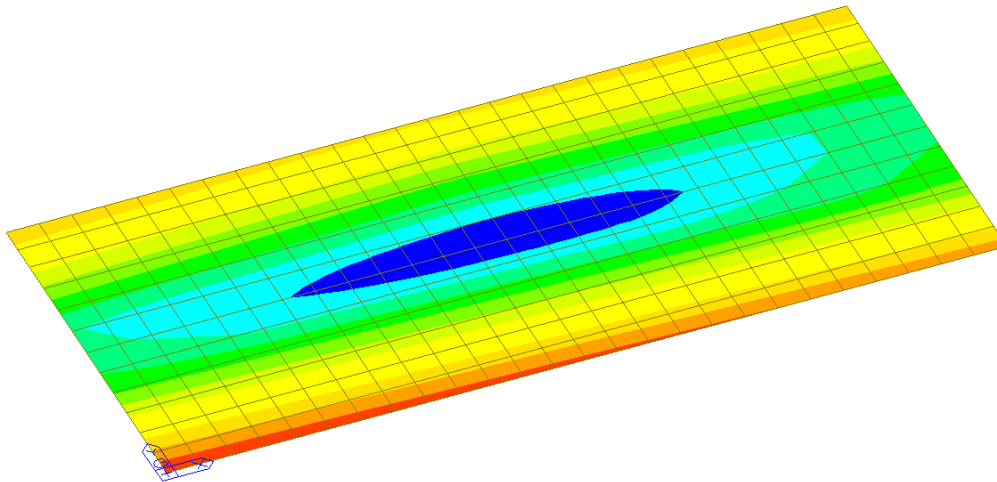
**Inviluppo combinazioni SLU – Azione flettente Myy (inviluppo in valore assoluto)**



**Inviluppo combinazioni SLU – Azione tagliante Vxx (inviluppo in valore assoluto)**



**Inviluppo combinazioni SLU – Azione tagliante Vyy (inviluppo in valore assoluto)**



**Inviluppo combinazioni SLU – Massima pressione al suolo**



 <b>IRICAV2</b>	 <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE					
GENERAL CONTRACTOR	ALTA SORVEGLIANZA					
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	<table border="1"> <tr> <td>Progetto IN17</td> <td>Lotto 10</td> <td>Codifica Documento EI2CLOC000006</td> <td>Rev. A</td> <td>Foglio 25 di 215</td> </tr> </table>	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 25 di 215
Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 25 di 215		

### 13. VERIFICHE GEOTECNICHE

#### 13.1 Sollecitazioni in fondazione

Di seguito si riassumono le combinazioni che massimizzano le varie sollecitazioni valutate a estradosso fondazione. Si rimanda ai documenti emessi da Saturno per l'intera tratta per la identificazione delle singole combinazioni di carico.

combo azioni	Rx kN	Ry kN	N kN	Mx kNm	My kNm	Mz kNm
1620	<b>-23.7</b>	-4.2	-57.9	67.9	-167.8	-41.6
1088	<b>24.4</b>	4.2	-56.0	52.2	179.8	44.8
4872	-5.8	<b>-28.2</b>	-64.9	322.8	-41.5	0.6
4865	5.8	<b>28.2</b>	-43.9	-224.7	46.4	-0.6
3738	0.7	-14.9	<b>-88.0</b>	194.0	10.8	2.9
4869	-6.4	28.0	<b>-43.7</b>	-222.9	-47.8	1.4
4865	5.8	28.2	-43.9	<b>-224.7</b>	46.4	-0.6
4896	-5.6	-28.2	-66.3	<b>329.0</b>	-39.5	1.5
1622	-23.7	-6.4	-51.0	93.5	<b>-168.8</b>	-42.0
1096	24.4	-4.2	-69.9	100.0	<b>181.6</b>	44.8
1621	-23.7	-14.9	-57.9	131.2	-167.8	<b>-42.0</b>
1364	24.4	11.5	-59.5	0.6	180.3	<b>45.2</b>

Nella tabella seguente sono riportate le azioni ad intradosso fondazione includendo il peso del plinto di fondazione e i vari contributi di trasporto.

COMBO	N	<b>M<sub>B</sub></b>	<b>M<sub>L</sub></b>	<b>T<sub>B</sub></b>	<b>T<sub>L</sub></b>
1620	691.63	50.19	231.74	4.25	23.68
1088	689.75	41.27	245.60	4.25	24.37
4872	698.65	373.09	57.23	28.24	5.84
4865	677.69	318.52	62.18	28.24	5.84
3738	721.70	198.97	12.64	14.87	0.69
4869	677.40	315.91	64.98	27.98	6.36
4865	677.69	318.52	62.18	28.24	5.84
4896	700.09	378.71	54.68	28.24	5.64
1622	684.71	90.28	232.74	6.37	23.68
1096	703.65	83.51	247.40	4.25	24.37
1621	691.63	148.20	231.74	14.87	23.68
1364	693.21	54.39	246.10	11.54	24.37

#### 13.2 Verifica di capacità portante e scorrimento

Nel seguito sono riassunte le condizioni più gravose che agiscono sul plinto di fondazione desunte dalla tabella riportata in precedenza

 <b>IFICAV2</b>	<b>ALTA SORVEGLIANZA</b>  GRUPPO FERROVIE DELLO STATO ITALIANE
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Load	N (kN)	M <sub>B</sub> (kNm)	M <sub>L</sub> (kNm)	T <sub>B</sub> (kN)	T <sub>L</sub> (kN)
4872-SLU/SLV	698.65	373.09	57.23	28.24	5.84
4896 SLU/SLV	700.09	378.71	54.68	28.24	5.64

Le verifiche sono state condotte in condizioni drenate e non drenate, sia per la capacità portate che per lo scorrimento, per la combinazioni 4896.

Nella valutazione della resistenza limite in condizioni drenate si trascura il termine funzione della coesione. Il termine R<sub>d</sub> di confronto – riferito alla capacità portante e alla resistenza allo scorrimento - è ridotto secondo il fattore  $\gamma_R$  di normativa; la verifica è soddisfatta se rispetta la disuguaglianza.

#### STATICA

Parametri geotecnici					COEFFICIENTI RIDUTTIVI DA NORMATIA			
$c_{u,k}$	$\varphi'_k$	$\gamma$	$\gamma_1$	$c_k$	M		R	
[kPa]	[°]	[kN/m <sup>3</sup> ]	[kN/m <sup>3</sup> ]	[kPa]	$\gamma_\varphi$	$\gamma_{c'k}$	$\gamma_{cp}$	$\gamma_s$
70	28	19	19	5	1	1	2.3	1.1

Sollecitazioni agenti						
N	M <sub>B</sub>	M <sub>L</sub>	T <sub>B</sub>	T <sub>L</sub>	q	A'
[kN]	[kNm]	[kNm]	[kN]	[kN]	[kN]	[m <sup>2</sup> ]
700.1	378.7	54.7	28.2	5.6	28.5	5.66

Geometria della fondazione								
B	L	D	e <sub>B</sub>	e <sub>L</sub>	B'	L'	z <sub>w</sub>	$\gamma_2$
[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[kN/m <sup>3</sup> ]
2.25	5	1.50	0.54	0.08	1.17	4.84	0.00	9.00

VERIFICA DI BREVE TERMINE - CONDIZIONI NON DRENATE							
$c_{u,d}$	$s_{cB}$	$s_{cL}$	$i_{cB}$	$i_{cL}$	m <sub>B</sub>	m <sub>L</sub>	N <sub>c</sub>
[kPa]	[-]	[-]	[-]	[-]	[-]	[-]	[-]
70.0	1.048	1.048	0.975	0.997	1.806	1.194	5.14

CAPACITA' PORTANTE - dir B		CAPACITA' PORTANTE - dir L	
q <sub>lim</sub> [kPa]	172.31	q <sub>lim</sub>	175.88
R <sub>d</sub> [kN]	975.0	R <sub>d</sub>	995.1
R <sub>d</sub> /N	1.39	R <sub>d</sub> /N	1.421



VERIFICA DI LUNGO TERMINE - CONDIZIONI DRENATE								
$\varphi'_d$	Nq	N $\gamma$	sq	s $\gamma$	$i_{q,B}$	$i_{\gamma,B}$	$i_{q,L}$	$i_{\gamma,L}$
[°]	[-]	[-]	[-]	[-]	[-]	[-]	[-]	[-]
28.0	14.7	10.94	1.128	0.904	0.933	0.898	0.991	0.984
CAPACITA' PORTANTE - dir B				CAPACITA' PORTANTE - dir L				
qlim [kPa]		212.37		qlim [kPa]		226.17		
Rd [kN]		1201.6		Rd [kN]		1279.708		
Rd/N		1.7		Rd/N		1.8		

## SISMICA

Parametri geotecnici					COEFFICIENTI RIDUTTIVI DA NORMATIA			
$c_{u,k}$	$\varphi'_k$	$\gamma$	$\gamma_1$	$c_k$	M		R	
[kPa]	[°]	[kN/m <sup>3</sup> ]	[kN/m <sup>3</sup> ]	[kPa]	$\gamma_\varphi$	$\gamma_{c'k}$	$\gamma_{cp}$	$\gamma_s$
70	28	19	19	5	1	1	2.3	1.1
Sollecitazioni agenti								
N	M <sub>B</sub>	M <sub>L</sub>	T <sub>B</sub>	T <sub>L</sub>	q	A'		
[kN]	[kNm]	[kNm]	[kN]	[kN]	[kN]	[m <sup>2</sup> ]		
700.1	378.7	54.7	28.2	5.6	28.5	5.66		
Geometria della fondazione								
B	L	D	e <sub>B</sub>	e <sub>L</sub>	B'	L'	zw	$\gamma_2$
[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[kN/m <sup>3</sup> ]
2.25	5	1.50	0.54	0.08	1.17	4.84	0.00	9.00
Parametri sismici								
$a_{max}/g$	Ss	St	$\beta_m$	K <sub>n</sub>				
[kN]	[kN]	[kN]	[kNm]	[kNm]				
0.173	1.447	1.0	0.31	0.078				



### VERIFICA DI BREVE TERMINE - CONDIZIONI NON DRENATE - SISMA

$c_{u,d}$	$s_{cB}$	$s_{cL}$	$i_{cB}$	$i_{cL}$	mB	mL	Nc
[kPa]	[-]	[-]	[-]	[-]	[-]	[-]	[-]
70.0	1.048	1.048	0.975	0.997	1.806	1.194	5.14

#### CAPACITA' PORTANTE - dir B

qlim [kPa]	168.34
Rd [kN]	952.5
Rd/N	1.361

#### CAPACITA' PORTANTE - dir L

qlim	171.82
Rd	972.2
Rd/N	1.39

### VERIFICA DI LUNGO TERMINE - CONDIZIONI DRENATE - SISMA

zq	z $\gamma$	zc	kh
[-]	[-]	[-]	[-]
0.854	0.854	0.975	0.078

$\phi'_d$	Nq	N $\gamma$	sq	s $\gamma$	$i_{q,B}$	$i_{\gamma,B}$	$i_{q,L}$	$i_{\gamma,L}$
[°]	[-]	[-]	[-]	[-]	[-]	[-]	[-]	[-]
28.0	14.7	10.94	1.128	0.904	0.933	0.898	0.991	0.984

#### CAPACITA' PORTANTE - dir B

qlim [kPa]	181.38
Rd [kN]	1026.3
Rd/N	1.47

#### CAPACITA' PORTANTE - dir L

qlim [kPa]	193.18
Rd [kN]	1093.007
Rd/N	1.56

### SCORRIMENTO

$c_{u,d}$	B'	L'	Rd	T		
[kPa]	[m]	[m]	[kN]	kN		
B	70.0	1.17	4.84	360.1	28.2	OK
L				360.1	5.638	OK

#### Verifica scorrimento

Ntan $\phi'$	Ntan $\phi'$ /T <sub>B</sub>	Ntan $\phi'$ /T <sub>L</sub>	
[kPa]	[-]	[-]	
338	12	60	OK

GENERAL CONTRACTOR  IRICAV2		ALTA SORVEGLIANZA  GRUPPO FERROVIE DELLO STATO ITALIANE				
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### 13.3 Verifiche a ribaltamento

Nel seguito sono riportate le verifiche all'equilibrio limite di ribaltamento:

La verifica è soddisfatta

combo azioni	x		N kN	x		Mz kNm	RIBALTAMENTO lato binario			
	Rx kN	Ry kN		Mx kNm	My kNm		N	Ry	Mx	Mrib>0
1620	<b>-23.7</b>	-4.2	-52.4	63.0	-168.0	-41.6	-79.96	11.47	62.97	-5.51
1088	<b>24.4</b>	4.2	-50.6	47.3	179.5	44.8	-77.10	-11.47	47.30	-41.28
4872	-5.8	<b>-28.2</b>	-64.9	322.8	-41.5	0.6	-98.97	76.25	322.80	300.08
4865	5.8	<b>28.2</b>	-43.9	-224.7	46.4	-0.6	-67.01	-76.25	-224.70	-367.96
3738	0.7	-14.9	<b>-77.1</b>	184.2	10.3	2.9	-117.53	40.15	184.20	106.82
2820	0.0	7.1	<b>-43.2</b>	12.7	1.4	0.0	-65.91	-19.12	12.71	-72.32
4865	5.8	28.2	-43.9	<b>-224.7</b>	46.4	-0.6	-67.01	-76.25	-224.70	-367.96
4896	-5.6	-28.2	-66.3	<b>329.0</b>	-39.5	1.5	-101.17	76.25	329.00	<b>304.08</b>
1622	-23.7	-6.4	-45.5	88.6	<b>-169.1</b>	-42.0	-69.42	17.20	88.56	36.34
1096	24.4	-4.2	-62.1	91.8	<b>181.1</b>	44.8	-94.75	11.47	91.75	8.47
1621	-23.7	-14.9	-52.4	126.3	-168.0	<b>-42.0</b>	-79.96	40.15	126.30	86.49
1364	24.4	11.5	-54.0	-4.4	180.1	<b>45.2</b>	-82.38	-31.16	-4.35	-117.89

Mrib,max 304.08  
M stab -631.88

2.08

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
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## 14. VERIFICHE STRUTTURALI

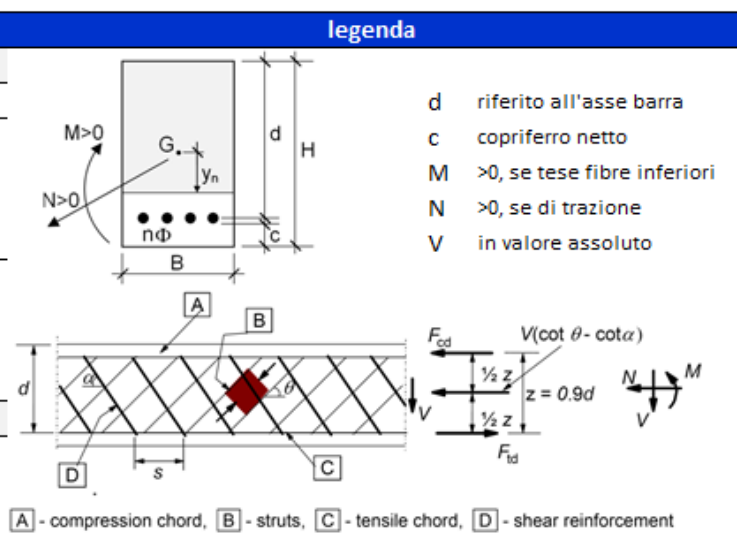
Il basamento è armato con 6 barre Ø20 superiori ed inferiori in direzione longitudinale in direzione trasversale 18 barre Ø14. Nel seguito si mostrano le verifiche a flessione e taglio lungo le due direzioni. In favore di sicurezza si adotta l'altezza minore del plinto, ovvero non si considera l'altezza del basamento di ancoraggio al palo. Per le verifiche allo SLE si adottano le sollecitazioni allo SLU abbattute per 1.3:

DIREZIONE XX

geometria				
sezione trasversale				
B	H	c	d	z
[cm]	[cm]	[cm]	[cm]	[cm]
100	220	8.0	211.0	189.9
armatura longitudinale				
nbarre	φ	d	Asl	
	[mm]	[cm]	[cm <sup>2</sup> ]	
2.5	20	8.4	7.85	
2.5	20	211.0	7.85	
armatura a taglio				
nbracci	φ	s	α	Asw
	[mm]	[cm]	[°]	[cm <sup>2</sup> ]
6	14	20	90	9.24

sollecitazioni e risultati			
SLE	SLU		
MEk	235.00 [kNm]	MEd	305.00 [kNm]
NEk	0 [kN]	NEd	[kN]
tensioni e fessure		VEd	149.00 [kN]
Mdec	0.0 [kNm]	presso-flessione	
Mcr	1763.3 [kNm]	MRd	652.6 [kNm]
		FS	2.14
γn	-89.50 [cm]	taglio	
σ <sub>c,min</sub>	-1.1 [MPa]	VRdc	551.2 [kN]
σ <sub>s,min</sub>	-9.3 [MPa]	<i>non serve armatura a taglio</i>	
σ <sub>s,max</sub>	146.6 [MPa]	VRds	5943.8 [kN]
		VRdmax	6268.1 [kN]
k <sub>2</sub>	0.5	θ	30.0 [°]
ε <sub>sm</sub> -ε <sub>cm</sub>	- [%]	sezione duttile	
S <sub>r,max</sub>	- [cm]	ai	211.0 [cm]
W <sub>k</sub>	- [mm]		

materiali			
calcestruzzo		acciaio	
R <sub>ck</sub>	30 [MPa]	f <sub>yk</sub>	450 [MPa]
f <sub>ck</sub>	24.9 [MPa]	γ <sub>s</sub>	1.15
γ <sub>c</sub>	1.5	f <sub>yd</sub>	391.3 [MPa]
α <sub>cc</sub>	0.85	E <sub>s</sub>	200000 [MPa]
f <sub>cd</sub>	14.1 [MPa]	ε <sub>uk</sub>	75 [%]
ν	0.540		
ε <sub>c2</sub>	2.0 [%]		
ε <sub>cu2</sub>	3.5 [%]		
α <sub>e</sub>	15.0		
k <sub>t</sub>	0.4		
valori limite			
k <sub>1</sub>	0.8	0,55 f <sub>ck</sub>	13.7 [MPa]
k <sub>3</sub>	3.4	0,75 f <sub>yk</sub>	337.5 [MPa]
k <sub>4</sub>	0.425	W <sub>k,lim</sub>	0.2 [mm]

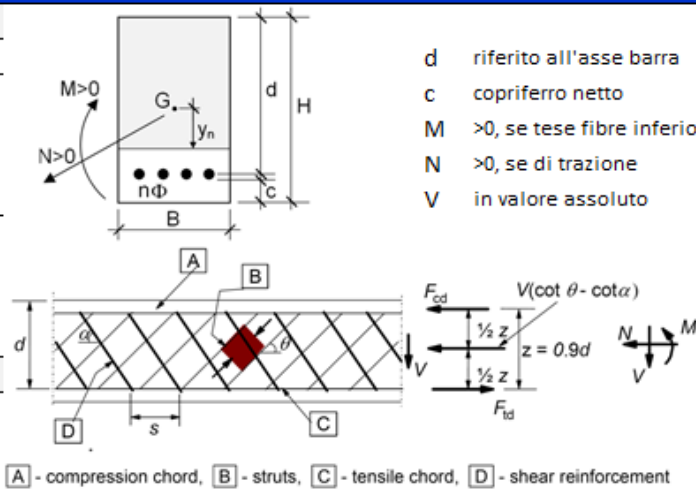


## DIREZIONE YY

geometria				
sezione trasversale				
B	H	c	d	z
[cm]	[cm]	[cm]	[cm]	[cm]
100	220	8.3	211.0	189.9
armatura longitudinale				
nbarre	$\phi$	d	$A_{sl}$	
	[mm]	[cm]	[cm <sup>2</sup> ]	
4	14	8.4	6.16	
4	14	211.0	6.16	
armatura a taglio				
nbracci	$\phi$	s	$\alpha$	$A_{sw}$
	[mm]	[cm]	[°]	[cm <sup>2</sup> ]
6	14	20	90	9.24

sollecitazioni e risultati	
SLE	SLU
$M_{Ek}$ 392.30 [kNm]	$M_{Ed}$ 510.00 [kNm]
$N_{Ek}$ 0 [kN]	$N_{Ed}$ [kN]
$V_{Ed}$ 218.00 [kN]	
tensioni e fessure	
$M_{dec}$ 0.0 [kNm]	
$M_{cr}$ 1753.9 [kNm]	
$y_n$ -91.63 [cm]	
$\sigma_{c,min}$ -2.0 [MPa]	
$\sigma_{s,min}$ -16.1 [MPa]	
$\sigma_{s,max}$ 311.1 [MPa]	
$k_2$ 0.5	
$\varepsilon_{sm}-\varepsilon_{cm}$ - [‰]	
$S_{r,max}$ - [cm]	
$W_k$ - [mm]	
presso-flessione	
$M_{Rd}$ 514.0 [kNm]	
FS 1.01	
taglio	
$V_{Rdc}$ 551.2 [kN]	
non serve armatura a taglio	
$V_{Rds}$ 5943.8 [kN]	
$V_{Rdmax}$ 6268.1 [kN]	
$\theta$ 30.0 [°]	
sezione duttile	
ai 211.0 [cm]	

materiali		legenda	
calcestruzzo	acciaio		
$R_{ck}$ 30 [MPa]	$f_{yk}$ 450 [MPa]	$d$	riferito all'asse barra
$f_{ck}$ 24.9 [MPa]	$\gamma_s$ 1.15	$c$	copriferro netto
$\gamma_c$ 1.5	$f_{yd}$ 391.3 [MPa]	$M > 0$	se tese fibre inferiori
$\alpha_{cc}$ 0.85	$E_s$ 200000 [MPa]	$N > 0$	se di trazione
$f_{cd}$ 14.1 [MPa]	$\varepsilon_{uk}$ 75 [‰]	$V$	in valore assoluto
$\nu$ 0.540			
$\varepsilon_{c2}$ 2.0 [‰]			
$\varepsilon_{cu2}$ 3.5 [‰]			
$\alpha_e$ 15.0			
$k_t$ 0.4			
$k_1$ 0.8			
$k_3$ 3.4			
$k_4$ 0.425			
	<b>valori limite</b>		
	$0,55 f_{ck}$ 13.7 [MPa]		
	$0,75 f_{yk}$ 337.5 [MPa]		
	$W_{k,lim}$ 0.2 [mm]		



GENERAL CONTRACTOR  IRICAV2		ALTA SORVEGLIANZA  GRUPPO FERROVIE DELLO STATO ITALIANE				
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Si effettuano le verifiche strutturali della sezione in testa del plinto di fondazione facendo riferimento alle combinazioni di carico espresse al Cap. **Errore. L'origine riferimento non è stata trovata.** Si precisa che le sollecitazioni indicate al Cap. **Errore. L'origine riferimento non è stata trovata.** sono pertinenti alla sezione alla base del palo, pertanto, si trasporta il momento sollecitante alla sezione di verifica allo spiccato del baggiolo:

$$- M_{base\ del\ collo} = M_{testa} + T \cdot braccio;$$

Per il baggiolo oggetto di studio il braccio di trasporto risulta pari a 50 cm; si effettuano le verifiche rispetto all'asse debole e all'asse forte della sezione di calcolo.

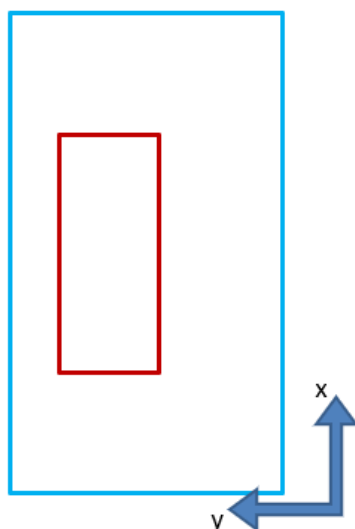


Figura 4: Sistema di riferimento considerato per la sezione

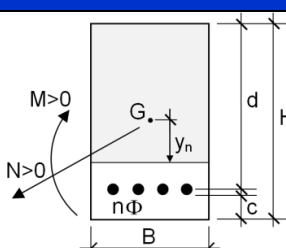
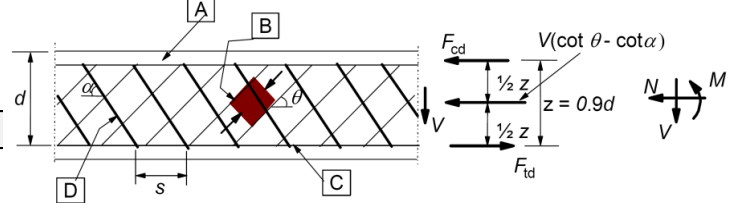
La sezione di calcolo ha dimensioni 160x90cm ed è armata a flessione con 26Φ18. A taglio si considerano delle staffe Φ12 con spaziatura pari a 12 cm. Il copriferro netto è assunto pari a 4cm.



**ASSE XX**

geometria				
sezione trasversale				
B	H	c	d	z
[cm]	[cm]	[cm]	[cm]	[cm]
<b>90</b>	<b>160</b>	5,2	153,9	138,5
armatura longitudinale				
nbarre	$\phi$	d	Asl	
	[mm]	[cm]	[cm <sup>2</sup> ]	
<b>5</b>	<b>18</b>	<b>6,1</b>	12,72	
<b>5</b>	<b>18,0</b>	<b>153,9</b>	12,72	
armatura a taglio				
nbracci	$\phi$	s	$\alpha$	Asw
	[mm]	[cm]	[°]	[cm <sup>2</sup> ]
<b>2</b>	<b>12</b>	<b>12</b>	<b>90</b>	2,26

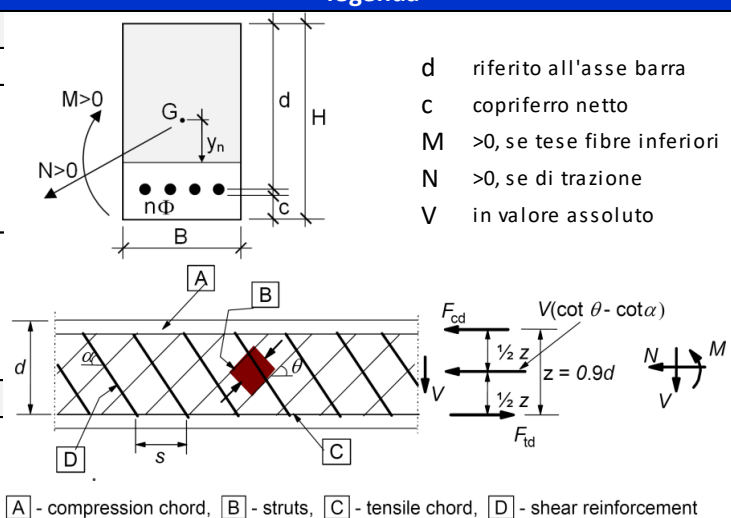
sollecitazioni e risultati	
SLE	SLU
M <sub>Ek</sub> <b>132,15</b> [kNm]	M <sub>Ed</sub> <b>193,30</b> [kNm]
N <sub>Ek</sub> <b>0</b> [kN]	N <sub>Ed</sub> <b>0</b> [kN]
<b>tensioni e fessure</b>	
M <sub>dec</sub> 0,0 [kNm]	
M <sub>cr</sub> 870,4 [kNm]	
y <sub>n</sub> -57,85 [cm]	
$\sigma_{c,min}$ -0,8 [MPa]	
$\sigma_{s,min}$ -8,6 [MPa]	
$\sigma_{s,max}$ 70,8 [MPa]	
<b>taglio</b>	
	M <sub>Rd</sub> 756,6 [kNm]
	FS 3,91
	V <sub>Rdc</sub> 383,9 [kN]
	<b>non serve armatura a taglio</b>
	V <sub>Rds</sub> 1769,5 [kN]
	V <sub>Rdmax</sub> 4114,7 [kN]
	$\theta$ 30,0 [°]
	sezione <b>duatile</b>
	a <sub>l</sub> 153,9 [cm]

materiali		legenda	
calcestruzzo	acciaio		
R <sub>ck</sub> <b>30</b> [MPa]	f <sub>yk</sub> <b>450</b> [MPa]		d riferito all'asse barra
f <sub>ck</sub> 24,9 [MPa]	$\gamma_s$ <b>1,15</b>		c copriferro netto
$\gamma_c$ <b>1,5</b>	f <sub>yd</sub> 391,3 [MPa]		M > 0, se tese fibre inferiori
$\alpha_{cc}$ <b>0,85</b>	E <sub>s</sub> <b>210000</b> [MPa]		N > 0, se di trazione
f <sub>cd</sub> 14,1 [MPa]	$\epsilon_{uk}$ <b>75</b> [‰]		V in valore assoluto
v 0,540			
$\epsilon_{c2}$ <b>2,0</b> [‰]			
$\epsilon_{cu2}$ <b>3,5</b> [‰]			
$\alpha_e$ <b>15,0</b>			
k <sub>t</sub> <b>0,4</b>			
k <sub>1</sub> <b>0,8</b>			
k <sub>3</sub> <b>3,4</b>			
k <sub>4</sub> <b>0,425</b>			
	<b>valori limite</b>		
	0,55 f <sub>ck</sub> 13,7 [MPa]		
	0,75 f <sub>yk</sub> 337,5 [MPa]		
	w <sub>k,lim</sub> <b>0,2</b> [mm]		
		<b>A</b> - compression chord, <b>B</b> - struts, <b>C</b> - tensile chord, <b>D</b> - shear reinforcement	

**ASSE YY**

geometria				
sezione trasversale				
B	H	c	d	z
[cm]	[cm]	[cm]	[cm]	[cm]
<b>160</b>	<b>90</b>	5,2	83,9	75,5
armatura longitudinale				
nbarre	$\phi$	d	Asl	
	[mm]	[cm]	[cm <sup>2</sup> ]	
<b>10</b>	<b>18</b>	<b>6,1</b>	25,45	
<b>10</b>	<b>18,0</b>	<b>83,9</b>	25,45	
armatura a taglio				
nbracci	$\phi$	s	$\alpha$	Asw
	[mm]	[cm]	[°]	[cm <sup>2</sup> ]
<b>2</b>	<b>12</b>	<b>12</b>	<b>90</b>	2,26

sollecitazioni e risultati	
SLE	SLU
M <sub>Ek</sub> <b>181,80</b> [kNm]	M <sub>Ed</sub> <b>343,10</b> [kNm]
N <sub>Ek</sub> <b>0</b> [kN]	N <sub>Ed</sub> <b>0</b> [kN]
<b>tensioni e fessure</b>	
M <sub>dec</sub> 0,0 [kNm]	
M <sub>cr</sub> 511,5 [kNm]	
y <sub>n</sub> -28,51 [cm]	
$\sigma_{c,min}$ -1,5 [MPa]	
$\sigma_{s,min}$ -14,1 [MPa]	
$\sigma_{s,max}$ 91,2 [MPa]	
<b>taglio</b>	
V <sub>Rdc</sub> 425,7 [kN]	
<b>non serve armatura a taglio</b>	
V <sub>Rds</sub> 964,7 [kN]	
V <sub>Rdmax</sub> 3987,9 [kN]	
$\theta$ 30,0 [°]	
sezione <b>duatile</b>	
ai <b>83,9</b> [cm]	

materiali		legenda	
calcestruzzo	acciaio		
R <sub>ck</sub> <b>30</b> [MPa]	f <sub>yk</sub> <b>450</b> [MPa]		d riferito all'asse barra
f <sub>ck</sub> 24,9 [MPa]	$\gamma_s$ <b>1,15</b>		c copriferro netto
$\gamma_c$ <b>1,5</b>	f <sub>yd</sub> 391,3 [MPa]		M >0, se tese fibre inferiori
$\alpha_{cc}$ <b>0,85</b>	E <sub>s</sub> <b>210000</b> [MPa]		N >0, se di trazione
f <sub>cd</sub> 14,1 [MPa]	$\epsilon_{uk}$ <b>75</b> [‰]		V in valore assoluto
$\nu$ 0,540			
$\epsilon_{c2}$ <b>2,0</b> [‰]			
$\epsilon_{cu2}$ <b>3,5</b> [‰]			
$\alpha_e$ <b>15,0</b>			
k <sub>t</sub> <b>0,4</b>			
<b>valori limite</b>			
k <sub>1</sub> <b>0,8</b>	0,55 f <sub>ck</sub> 13,7 [MPa]		
k <sub>3</sub> <b>3,4</b>	0,75 f <sub>yk</sub> 337,5 [MPa]		
k <sub>4</sub> <b>0,425</b>	w <sub>k,lim</sub> <b>0,2</b> [mm]		

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 35 di 215

## 15. ALLEGATO 1: CARICHI AGENTI A TESTA PLINTO

Reazioni vincolari - STR A1						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
0.00	0.04	61,400.00	- 59,160,000.00	- 3,218,000.00	27.23	
0.00	0.04	63,760.00	- 53,600,000.00	- 2,475,000.00	24.68	
0.00	0.05	70,750.00	- 63,730,000.00	- 3,218,000.00	29.34	
0.00	10,620.00	54,420.00	- 112,300,000.00	- 2,475,000.00	354,700.00	
0.00	6,370.00	50,960.00	- 93,460,000.00	- 1,952,000.00	354,700.00	
14,210.00	0.05	54,420.00	- 49,020,000.00	100,000,000.00	24,950,000.00	
14,210.00	0.05	54,420.00	- 49,020,000.00	100,000,000.00	24,950,000.00	
14,210.00	10,620.00	54,420.00	- 112,300,000.00	100,000,000.00	25,310,000.00	
- 990.00	4,249.00	65,080.00	- 99,340,000.00	- 13,050,000.00	- 4,599,000.00	
- 990.00	6,370.00	58,160.00	- 124,900,000.00	- 12,000,000.00	- 4,244,000.00	
- 990.00	14,870.00	65,080.00	- 162,600,000.00	- 13,050,000.00	- 4,244,000.00	
- 990.00	6,370.00	58,160.00	- 124,900,000.00	- 12,000,000.00	- 4,244,000.00	
- 990.00	14,870.00	65,080.00	- 162,600,000.00	- 13,050,000.00	- 4,244,000.00	
13,220.00	0.07	61,620.00	- 80,490,000.00	89,950,000.00	20,360,000.00	
13,220.00	- 4,249.00	58,160.00	- 61,640,000.00	90,480,000.00	20,360,000.00	
13,220.00	10,620.00	61,620.00	- 143,800,000.00	89,950,000.00	20,710,000.00	
0.00	10,620.00	61,400.00	- 122,400,000.00	- 3,218,000.00	354,700.00	
0.00	14,870.00	64,860.00	- 141,300,000.00	- 3,741,000.00	354,700.00	
14,210.00	0.06	61,400.00	- 59,160,000.00	99,260,000.00	24,950,000.00	
14,210.00	4,249.00	64,860.00	- 78,000,000.00	98,740,000.00	24,950,000.00	
14,210.00	4,249.00	64,860.00	- 78,000,000.00	98,740,000.00	24,950,000.00	
14,210.00	14,870.00	64,860.00	- 141,300,000.00	98,740,000.00	25,310,000.00	
14,210.00	6,370.00	57,950.00	- 103,600,000.00	99,780,000.00	25,310,000.00	
- 990.00	0.06	68,600.00	- 90,620,000.00	- 13,270,000.00	- 4,599,000.00	
- 990.00	10,620.00	68,600.00	- 153,900,000.00	- 13,270,000.00	- 4,244,000.00	
- 990.00	14,870.00	72,060.00	- 172,700,000.00	- 13,790,000.00	- 4,244,000.00	
13,220.00	10,620.00	68,600.00	- 153,900,000.00	89,210,000.00	20,710,000.00	
13,220.00	10,620.00	68,600.00	- 153,900,000.00	89,210,000.00	20,710,000.00	
13,220.00	6,370.00	65,150.00	- 135,100,000.00	89,740,000.00	20,710,000.00	
13,220.00	14,870.00	72,060.00	- 172,700,000.00	88,690,000.00	20,710,000.00	
0.00	0.04	63,760.00	- 53,600,000.00	- 2,475,000.00	24.83	
0.00	4,249.00	67,220.00	- 72,450,000.00	- 2,999,000.00	29.93	
0.00	6,370.00	60,310.00	- 98,030,000.00	- 1,952,000.00	354,700.00	
14,210.00	0.05	63,760.00	- 53,600,000.00	100,000,000.00	24,950,000.00	
14,210.00	4,249.00	67,220.00	- 72,450,000.00	99,480,000.00	24,950,000.00	
14,210.00	6,370.00	60,310.00	- 98,030,000.00	100,500,000.00	25,310,000.00	
14,210.00	14,870.00	67,220.00	- 135,700,000.00	99,480,000.00	25,310,000.00	
14,210.00	6,370.00	60,310.00	- 98,030,000.00	100,500,000.00	25,310,000.00	
14,210.00	14,870.00	67,220.00	- 135,700,000.00	99,480,000.00	25,310,000.00	
- 990.00	6,370.00	67,510.00	- 129,500,000.00	- 12,000,000.00	- 4,244,000.00	
13,220.00	0.07	70,960.00	- 85,060,000.00	89,950,000.00	20,360,000.00	
13,220.00	- 4,249.00	67,510.00	- 66,220,000.00	90,480,000.00	20,360,000.00	
13,220.00	10,620.00	70,960.00	- 148,300,000.00	89,950,000.00	20,710,000.00	
13,220.00	10,620.00	70,960.00	- 148,300,000.00	89,950,000.00	20,710,000.00	
13,220.00	6,370.00	67,510.00	- 129,500,000.00	90,480,000.00	20,710,000.00	
13,220.00	14,870.00	74,420.00	- 167,200,000.00	89,430,000.00	20,710,000.00	
14,210.00	6,370.00	67,290.00	- 108,200,000.00	99,780,000.00	25,310,000.00	
13,220.00	4,249.00	81,400.00	- 114,000,000.00	88,690,000.00	20,360,000.00	
13,220.00	10,620.00	77,950.00	- 158,500,000.00	89,210,000.00	20,710,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 36 di 215

Reazioni vincolari - STR A1						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
13,220.00	14,870.00	81,400.00	- 177,300,000.00	88,690,000.00	20,710,000.00	
0.00	10,620.00	54,420.00	- 112,300,000.00	- 2,475,000.00	354,700.00	
0.00	6,370.00	50,960.00	- 93,460,000.00	- 1,952,000.00	354,700.00	
0.00	14,870.00	57,880.00	- 131,200,000.00	- 2,999,000.00	354,700.00	
14,210.00	10,620.00	54,420.00	- 112,300,000.00	100,000,000.00	25,310,000.00	
14,210.00	6,370.00	50,960.00	- 93,460,000.00	100,500,000.00	25,310,000.00	
14,210.00	6,370.00	50,960.00	- 93,460,000.00	100,500,000.00	25,310,000.00	
14,210.00	14,870.00	57,880.00	- 131,200,000.00	99,480,000.00	25,310,000.00	
- 990.00	4,249.00	65,080.00	- 99,340,000.00	- 13,050,000.00	- 4,599,000.00	
- 990.00	10,620.00	61,620.00	- 143,800,000.00	- 12,520,000.00	- 4,244,000.00	
- 990.00	6,370.00	58,160.00	- 124,900,000.00	- 12,000,000.00	- 4,244,000.00	
13,220.00	- 4,249.00	58,160.00	- 61,640,000.00	90,480,000.00	20,360,000.00	
13,220.00	4,249.00	65,080.00	- 99,340,000.00	89,430,000.00	20,360,000.00	
13,220.00	10,620.00	61,620.00	- 143,800,000.00	89,950,000.00	20,710,000.00	
13,220.00	6,370.00	58,160.00	- 124,900,000.00	90,480,000.00	20,710,000.00	
13,220.00	6,370.00	58,160.00	- 124,900,000.00	90,480,000.00	20,710,000.00	
13,220.00	14,870.00	65,080.00	- 162,600,000.00	89,430,000.00	20,710,000.00	
0.00	10,620.00	61,400.00	- 122,400,000.00	- 3,218,000.00	354,700.00	
0.00	14,870.00	64,860.00	- 141,300,000.00	- 3,741,000.00	354,700.00	
14,210.00	0.06	61,400.00	- 59,160,000.00	99,260,000.00	24,950,000.00	
14,210.00	10,620.00	61,400.00	- 122,400,000.00	99,260,000.00	25,310,000.00	
14,210.00	10,620.00	61,400.00	- 122,400,000.00	99,260,000.00	25,310,000.00	
14,210.00	6,370.00	57,950.00	- 103,600,000.00	99,780,000.00	25,310,000.00	
14,210.00	6,370.00	57,950.00	- 103,600,000.00	99,780,000.00	25,310,000.00	
14,210.00	14,870.00	64,860.00	- 141,300,000.00	98,740,000.00	25,310,000.00	
- 990.00	0.06	68,600.00	- 90,620,000.00	- 13,270,000.00	- 4,599,000.00	
- 990.00	4,249.00	72,060.00	- 109,500,000.00	- 13,790,000.00	- 4,599,000.00	
- 990.00	10,620.00	68,600.00	- 153,900,000.00	- 13,270,000.00	- 4,244,000.00	
13,220.00	10,620.00	68,600.00	- 153,900,000.00	89,210,000.00	20,710,000.00	
13,220.00	6,370.00	65,150.00	- 135,100,000.00	89,740,000.00	20,710,000.00	
13,220.00	14,870.00	72,060.00	- 172,700,000.00	88,690,000.00	20,710,000.00	
13,220.00	6,370.00	65,150.00	- 135,100,000.00	89,740,000.00	20,710,000.00	
13,220.00	14,870.00	72,060.00	- 172,700,000.00	88,690,000.00	20,710,000.00	
0.00	4,249.00	67,220.00	- 72,450,000.00	- 2,999,000.00	29.64	
0.00	10,620.00	63,760.00	- 116,900,000.00	- 2,475,000.00	354,700.00	
0.00	10,620.00	63,760.00	- 116,900,000.00	- 2,475,000.00	354,700.00	
0.00	6,370.00	60,310.00	- 98,030,000.00	- 1,952,000.00	354,700.00	
14,210.00	0.05	63,760.00	- 53,600,000.00	100,000,000.00	24,950,000.00	
14,210.00	10,620.00	63,760.00	- 116,900,000.00	100,000,000.00	25,310,000.00	
14,210.00	6,370.00	60,310.00	- 98,030,000.00	100,500,000.00	25,310,000.00	
14,210.00	14,870.00	67,220.00	- 135,700,000.00	99,480,000.00	25,310,000.00	
- 990.00	14,870.00	74,420.00	- 167,200,000.00	- 13,050,000.00	- 4,244,000.00	
13,220.00	0.07	70,960.00	- 85,060,000.00	89,950,000.00	20,360,000.00	
13,220.00	- 4,249.00	67,510.00	- 66,220,000.00	90,480,000.00	20,360,000.00	
13,220.00	4,249.00	74,420.00	- 103,900,000.00	89,430,000.00	20,360,000.00	
13,220.00	10,620.00	70,960.00	- 148,300,000.00	89,950,000.00	20,710,000.00	
13,220.00	6,370.00	67,510.00	- 129,500,000.00	90,480,000.00	20,710,000.00	
13,220.00	14,870.00	74,420.00	- 167,200,000.00	89,430,000.00	20,710,000.00	
13,220.00	6,370.00	67,510.00	- 129,500,000.00	90,480,000.00	20,710,000.00	
13,220.00	14,870.00	74,420.00	- 167,200,000.00	89,430,000.00	20,710,000.00	
0.00	4,249.00	74,200.00	- 82,580,000.00	- 3,741,000.00	34.29	
0.00	10,620.00	70,750.00	- 127,000,000.00	- 3,218,000.00	354,700.00	
14,210.00	10,620.00	70,750.00	- 127,000,000.00	99,260,000.00	25,310,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17    Lotto 10    Codifica Documento EI2CLOC000006    Rev. A    Foglio 37 di 215

Reazioni vincolari - STR A1						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
14,210.00	10,620.00	70,750.00	- 127,000,000.00	99,260,000.00	25,310,000.00	
14,210.00	6,370.00	67,290.00	- 108,200,000.00	99,780,000.00	25,310,000.00	
14,210.00	14,870.00	74,200.00	- 145,900,000.00	98,740,000.00	25,310,000.00	
13,220.00	10,620.00	77,950.00	- 158,500,000.00	89,210,000.00	20,710,000.00	
13,220.00	6,370.00	74,490.00	- 139,600,000.00	89,740,000.00	20,710,000.00	
13,220.00	14,870.00	81,400.00	- 177,300,000.00	88,690,000.00	20,710,000.00	
0.00	0.04	58,780.00	- 62,070,000.00	- 2,475,000.00	28.73	
0.00	- 4,249.00	55,320.00	- 43,220,000.00	- 1,952,000.00	23.49	
0.00	10,620.00	54,420.00	- 112,300,000.00	- 2,475,000.00	354,700.00	
0.00	10,620.00	58,780.00	- 125,400,000.00	- 2,475,000.00	354,700.00	
0.00	10,620.00	58,780.00	- 125,400,000.00	- 2,475,000.00	354,700.00	
0.00	14,870.00	57,880.00	- 131,200,000.00	- 2,999,000.00	354,700.00	
0.00	6,370.00	50,960.00	- 93,460,000.00	- 1,952,000.00	354,700.00	
0.00	14,870.00	57,880.00	- 131,200,000.00	- 2,999,000.00	354,700.00	
0.00	6,370.00	55,320.00	- 106,500,000.00	- 1,952,000.00	354,700.00	
0.00	6,370.00	55,320.00	- 106,500,000.00	- 1,952,000.00	354,700.00	
14,210.00	0.06	58,780.00	- 62,070,000.00	100,000,000.00	24,950,000.00	
14,210.00	0.06	58,780.00	- 62,070,000.00	100,000,000.00	24,950,000.00	
14,210.00	- 4,249.00	50,960.00	- 30,180,000.00	100,500,000.00	24,950,000.00	
14,210.00	10,620.00	54,420.00	- 112,300,000.00	100,000,000.00	25,310,000.00	
14,210.00	10,620.00	58,780.00	- 125,400,000.00	100,000,000.00	25,310,000.00	
14,210.00	10,620.00	58,780.00	- 125,400,000.00	100,000,000.00	25,310,000.00	
14,210.00	14,870.00	57,880.00	- 131,200,000.00	99,480,000.00	25,310,000.00	
14,210.00	6,370.00	50,960.00	- 93,460,000.00	100,500,000.00	25,310,000.00	
14,210.00	14,870.00	57,880.00	- 131,200,000.00	99,480,000.00	25,310,000.00	
14,210.00	6,370.00	55,320.00	- 106,500,000.00	100,500,000.00	25,310,000.00	
14,210.00	14,870.00	62,230.00	- 144,200,000.00	99,480,000.00	25,310,000.00	
14,210.00	6,370.00	55,320.00	- 106,500,000.00	100,500,000.00	25,310,000.00	
14,210.00	14,870.00	62,230.00	- 144,200,000.00	99,480,000.00	25,310,000.00	
- 990.00	4,249.00	69,430.00	- 112,400,000.00	- 13,050,000.00	- 4,599,000.00	
- 990.00	10,620.00	61,620.00	- 143,800,000.00	- 12,520,000.00	- 4,244,000.00	
- 990.00	10,620.00	65,980.00	- 156,800,000.00	- 12,520,000.00	- 4,244,000.00	
- 990.00	6,370.00	62,520.00	- 138,000,000.00	- 12,000,000.00	- 4,244,000.00	
13,220.00	0.08	65,980.00	- 93,530,000.00	89,950,000.00	20,360,000.00	
13,220.00	0.08	65,980.00	- 93,530,000.00	89,950,000.00	20,360,000.00	
13,220.00	4,249.00	65,080.00	- 99,340,000.00	89,430,000.00	20,360,000.00	
13,220.00	- 4,249.00	62,520.00	- 74,690,000.00	90,480,000.00	20,360,000.00	
13,220.00	4,249.00	69,430.00	- 112,400,000.00	89,430,000.00	20,360,000.00	
13,220.00	10,620.00	61,620.00	- 143,800,000.00	89,950,000.00	20,710,000.00	
13,220.00	10,620.00	65,980.00	- 156,800,000.00	89,950,000.00	20,710,000.00	
13,220.00	10,620.00	65,980.00	- 156,800,000.00	89,950,000.00	20,710,000.00	
13,220.00	14,870.00	65,080.00	- 162,600,000.00	89,430,000.00	20,710,000.00	
13,220.00	6,370.00	58,160.00	- 124,900,000.00	90,480,000.00	20,710,000.00	
13,220.00	14,870.00	65,080.00	- 162,600,000.00	89,430,000.00	20,710,000.00	
13,220.00	6,370.00	62,520.00	- 138,000,000.00	90,480,000.00	20,710,000.00	
13,220.00	14,870.00	69,430.00	- 175,700,000.00	89,430,000.00	20,710,000.00	
13,220.00	6,370.00	62,520.00	- 138,000,000.00	90,480,000.00	20,710,000.00	
13,220.00	14,870.00	69,430.00	- 175,700,000.00	89,430,000.00	20,710,000.00	
0.00	- 4,249.00	57,950.00	- 40,310,000.00	- 2,694,000.00	22.27	
0.00	4,249.00	64,860.00	- 78,000,000.00	- 3,741,000.00	32.47	
0.00	10,620.00	65,760.00	- 135,500,000.00	- 3,218,000.00	354,700.00	
0.00	10,620.00	65,760.00	- 135,500,000.00	- 3,218,000.00	354,700.00	
0.00	6,370.00	57,950.00	- 103,600,000.00	- 2,694,000.00	354,700.00	
0.00	6,370.00	62,300.00	- 116,600,000.00	- 2,694,000.00	354,700.00	

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 38 di 215

Reazioni vincolari - STR A1						
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>	
0.00	14,870.00	69,220.00	- 154,300,000.00	- 3,741,000.00	354,700.00	
0.00	14,870.00	69,220.00	- 154,300,000.00	- 3,741,000.00	354,700.00	
14,210.00	0.07	65,760.00	- 72,200,000.00	99,260,000.00	24,950,000.00	
14,210.00	- 4,249.00	57,950.00	- 40,310,000.00	99,780,000.00	24,950,000.00	
14,210.00	10,620.00	61,400.00	- 122,400,000.00	99,260,000.00	25,310,000.00	
14,210.00	10,620.00	65,760.00	- 135,500,000.00	99,260,000.00	25,310,000.00	
14,210.00	10,620.00	65,760.00	- 135,500,000.00	99,260,000.00	25,310,000.00	
14,210.00	14,870.00	64,860.00	- 141,300,000.00	98,740,000.00	25,310,000.00	
14,210.00	6,370.00	62,300.00	- 116,600,000.00	99,780,000.00	25,310,000.00	
14,210.00	14,870.00	69,220.00	- 154,300,000.00	98,740,000.00	25,310,000.00	
14,210.00	6,370.00	62,300.00	- 116,600,000.00	99,780,000.00	25,310,000.00	
14,210.00	14,870.00	69,220.00	- 154,300,000.00	98,740,000.00	25,310,000.00	
- 990.00	0.07	72,960.00	- 103,700,000.00	- 13,270,000.00	- 4,599,000.00	
- 990.00	- 4,249.00	65,150.00	- 71,770,000.00	- 12,740,000.00	- 4,599,000.00	
- 990.00	4,249.00	72,060.00	- 109,500,000.00	- 13,790,000.00	- 4,599,000.00	
- 990.00	- 4,249.00	69,500.00	- 84,820,000.00	- 12,740,000.00	- 4,599,000.00	
13,220.00	0.08	68,600.00	- 90,620,000.00	89,210,000.00	20,360,000.00	
13,220.00	0.09	72,960.00	- 103,700,000.00	89,210,000.00	20,360,000.00	
13,220.00	4,249.00	72,060.00	- 109,500,000.00	88,690,000.00	20,360,000.00	
13,220.00	- 4,249.00	69,500.00	- 84,820,000.00	89,740,000.00	20,360,000.00	
13,220.00	4,249.00	76,420.00	- 122,500,000.00	88,690,000.00	20,360,000.00	
13,220.00	10,620.00	72,960.00	- 166,900,000.00	89,210,000.00	20,710,000.00	
13,220.00	10,620.00	72,960.00	- 166,900,000.00	89,210,000.00	20,710,000.00	
13,220.00	6,370.00	69,500.00	- 148,100,000.00	89,740,000.00	20,710,000.00	
13,220.00	14,870.00	76,420.00	- 185,800,000.00	88,690,000.00	20,710,000.00	
13,220.00	6,370.00	69,500.00	- 148,100,000.00	89,740,000.00	20,710,000.00	
13,220.00	14,870.00	76,420.00	- 185,800,000.00	88,690,000.00	20,710,000.00	
0.00	10,620.00	68,120.00	- 129,900,000.00	- 2,475,000.00	354,700.00	
0.00	6,370.00	64,660.00	- 111,100,000.00	- 1,952,000.00	354,700.00	
0.00	14,870.00	71,580.00	- 148,800,000.00	- 2,999,000.00	354,700.00	
0.00	14,870.00	71,580.00	- 148,800,000.00	- 2,999,000.00	354,700.00	
14,210.00	0.06	68,120.00	- 66,650,000.00	100,000,000.00	24,950,000.00	
14,210.00	- 4,249.00	60,310.00	- 34,750,000.00	100,500,000.00	24,950,000.00	
14,210.00	- 4,249.00	60,310.00	- 34,750,000.00	100,500,000.00	24,950,000.00	
14,210.00	- 4,249.00	64,660.00	- 47,800,000.00	100,500,000.00	24,950,000.00	
14,210.00	4,249.00	71,580.00	- 85,490,000.00	99,480,000.00	24,950,000.00	
14,210.00	- 4,249.00	64,660.00	- 47,800,000.00	100,500,000.00	24,950,000.00	
14,210.00	10,620.00	63,760.00	- 116,900,000.00	100,000,000.00	25,310,000.00	
14,210.00	10,620.00	63,760.00	- 116,900,000.00	100,000,000.00	25,310,000.00	
14,210.00	10,620.00	68,120.00	- 129,900,000.00	100,000,000.00	25,310,000.00	
14,210.00	10,620.00	68,120.00	- 129,900,000.00	100,000,000.00	25,310,000.00	
14,210.00	6,370.00	64,660.00	- 111,100,000.00	100,500,000.00	25,310,000.00	
14,210.00	14,870.00	71,580.00	- 148,800,000.00	99,480,000.00	25,310,000.00	
14,210.00	6,370.00	64,660.00	- 111,100,000.00	100,500,000.00	25,310,000.00	
14,210.00	14,870.00	71,580.00	- 148,800,000.00	99,480,000.00	25,310,000.00	
- 990.00	0.07	75,320.00	- 98,110,000.00	- 12,520,000.00	- 4,599,000.00	
- 990.00	10,620.00	70,960.00	- 148,300,000.00	- 12,520,000.00	- 4,244,000.00	
- 990.00	10,620.00	70,960.00	- 148,300,000.00	- 12,520,000.00	- 4,244,000.00	
- 990.00	6,370.00	67,510.00	- 129,500,000.00	- 12,000,000.00	- 4,244,000.00	
- 990.00	14,870.00	74,420.00	- 167,200,000.00	- 13,050,000.00	- 4,244,000.00	
- 990.00	6,370.00	71,860.00	- 142,500,000.00	- 12,000,000.00	- 4,244,000.00	
- 990.00	14,870.00	78,780.00	- 180,200,000.00	- 13,050,000.00	- 4,244,000.00	
- 990.00	6,370.00	71,860.00	- 142,500,000.00	- 12,000,000.00	- 4,244,000.00	
- 990.00	14,870.00	78,780.00	- 180,200,000.00	- 13,050,000.00	- 4,244,000.00	
13,220.00	0.08	75,320.00	- 98,110,000.00	89,950,000.00	20,360,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 39 di 215

<b>Reazioni vincolari - STR A1</b>							
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>		
13,220.00	-	4,249.00	67,510.00	-	66,220,000.00	90,480,000.00	20,360,000.00
13,220.00	-	4,249.00	71,860.00	-	79,260,000.00	90,480,000.00	20,360,000.00
13,220.00		4,249.00	78,780.00	-	117,000,000.00	89,430,000.00	20,360,000.00
13,220.00		4,249.00	78,780.00	-	117,000,000.00	89,430,000.00	20,360,000.00
13,220.00		10,620.00	75,320.00	-	161,400,000.00	89,950,000.00	20,710,000.00
13,220.00		10,620.00	75,320.00	-	161,400,000.00	89,950,000.00	20,710,000.00
13,220.00		6,370.00	71,860.00	-	142,500,000.00	90,480,000.00	20,710,000.00
13,220.00		14,870.00	78,780.00	-	180,200,000.00	89,430,000.00	20,710,000.00
13,220.00		6,370.00	71,860.00	-	142,500,000.00	90,480,000.00	20,710,000.00
13,220.00		14,870.00	78,780.00	-	180,200,000.00	89,430,000.00	20,710,000.00
0.00		4,249.00	74,200.00	-	82,580,000.00	-	34.59
0.00		10,620.00	70,750.00	-	127,000,000.00	-	354,700.00
0.00		10,620.00	75,100.00	-	140,100,000.00	-	354,700.00
0.00		6,370.00	71,650.00	-	121,200,000.00	-	354,700.00
0.00		14,870.00	78,560.00	-	158,900,000.00	-	354,700.00
0.00		6,370.00	71,650.00	-	121,200,000.00	-	354,700.00
0.00		14,870.00	78,560.00	-	158,900,000.00	-	354,700.00
14,210.00		0.06	70,750.00	-	63,730,000.00	99,260,000.00	24,950,000.00
14,210.00		0.07	75,100.00	-	76,780,000.00	99,260,000.00	24,950,000.00
14,210.00		0.07	75,100.00	-	76,780,000.00	99,260,000.00	24,950,000.00
14,210.00		4,249.00	74,200.00	-	82,580,000.00	98,740,000.00	24,950,000.00
14,210.00	-	4,249.00	67,290.00	-	44,880,000.00	99,780,000.00	24,950,000.00
14,210.00	-	4,249.00	71,650.00	-	57,930,000.00	99,780,000.00	24,950,000.00
14,210.00		4,249.00	78,560.00	-	95,630,000.00	98,740,000.00	24,950,000.00
14,210.00		10,620.00	70,750.00	-	127,000,000.00	99,260,000.00	25,310,000.00
14,210.00		10,620.00	75,100.00	-	140,100,000.00	99,260,000.00	25,310,000.00
14,210.00		10,620.00	75,100.00	-	140,100,000.00	99,260,000.00	25,310,000.00
14,210.00		6,370.00	67,290.00	-	108,200,000.00	99,780,000.00	25,310,000.00
14,210.00		14,870.00	74,200.00	-	145,900,000.00	98,740,000.00	25,310,000.00
14,210.00		14,870.00	74,200.00	-	145,900,000.00	98,740,000.00	25,310,000.00
14,210.00		6,370.00	71,650.00	-	121,200,000.00	99,780,000.00	25,310,000.00
14,210.00		14,870.00	78,560.00	-	158,900,000.00	98,740,000.00	25,310,000.00
14,210.00		6,370.00	71,650.00	-	121,200,000.00	99,780,000.00	25,310,000.00
14,210.00		14,870.00	78,560.00	-	158,900,000.00	98,740,000.00	25,310,000.00
-	990.00	4,249.00	81,400.00	-	114,000,000.00	-	4,599,000.00
-	990.00	14,870.00	85,760.00	-	190,400,000.00	-	4,244,000.00
13,220.00		0.08	77,950.00	-	95,200,000.00	89,210,000.00	20,360,000.00
13,220.00		0.09	82,300.00	-	108,200,000.00	89,210,000.00	20,360,000.00
13,220.00		4,249.00	81,400.00	-	114,000,000.00	88,690,000.00	20,360,000.00
13,220.00	-	4,249.00	78,850.00	-	89,390,000.00	89,740,000.00	20,360,000.00
13,220.00		10,620.00	77,950.00	-	158,500,000.00	89,210,000.00	20,710,000.00
13,220.00		10,620.00	82,300.00	-	171,500,000.00	89,210,000.00	20,710,000.00
13,220.00		10,620.00	82,300.00	-	171,500,000.00	89,210,000.00	20,710,000.00
13,220.00		6,370.00	74,490.00	-	139,600,000.00	89,740,000.00	20,710,000.00
13,220.00		6,370.00	74,490.00	-	139,600,000.00	89,740,000.00	20,710,000.00
13,220.00		14,870.00	81,400.00	-	177,300,000.00	88,690,000.00	20,710,000.00
13,220.00		6,370.00	78,850.00	-	152,700,000.00	89,740,000.00	20,710,000.00
13,220.00		14,870.00	85,760.00	-	190,400,000.00	88,690,000.00	20,710,000.00
13,220.00		6,370.00	78,850.00	-	152,700,000.00	89,740,000.00	20,710,000.00
13,220.00		14,870.00	85,760.00	-	190,400,000.00	88,690,000.00	20,710,000.00
0.00	-	15,790.00	50,960.00		40,320,000.00	-	354,600.00
14,210.00		4,249.00	57,880.00	-	67,870,000.00	99,480,000.00	24,950,000.00
-	990.00	0.06	61,620.00	-	80,490,000.00	-	4,599,000.00
13,220.00		0.07	61,620.00	-	80,490,000.00	89,950,000.00	20,360,000.00
13,220.00	-	11,540.00	61,620.00	-	9,992,000.00	89,950,000.00	20,000,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 40 di 215

Reazioni vincolari - STR A1							
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>		
13,220.00	-	11,540.00	61,620.00	- 9,992,000.00	89,950,000.00	20,000,000.00	
13,220.00	-	7,292.00	65,080.00	- 28,840,000.00	89,430,000.00	20,000,000.00	
14,210.00	-	11,540.00	61,400.00	11,340,000.00	99,260,000.00	24,600,000.00	
14,210.00	-	11,540.00	61,400.00	11,340,000.00	99,260,000.00	24,600,000.00	
14,210.00	-	15,790.00	57,950.00	30,190,000.00	99,780,000.00	24,600,000.00	
14,210.00	-	7,292.00	64,860.00	- 7,507,000.00	98,740,000.00	24,600,000.00	
14,210.00	-	15,790.00	57,950.00	30,190,000.00	99,780,000.00	24,600,000.00	
14,210.00	-	7,292.00	64,860.00	- 7,507,000.00	98,740,000.00	24,600,000.00	
13,220.00	-	4,249.00	65,150.00	- 71,770,000.00	89,740,000.00	20,360,000.00	
13,220.00	-	4,249.00	65,150.00	- 71,770,000.00	89,740,000.00	20,360,000.00	
13,220.00	-	4,249.00	72,060.00	- 109,500,000.00	88,690,000.00	20,360,000.00	
13,220.00	-	11,540.00	68,600.00	- 20,120,000.00	89,210,000.00	20,000,000.00	
13,220.00	-	11,540.00	68,600.00	- 20,120,000.00	89,210,000.00	20,000,000.00	
14,210.00	-	4,249.00	67,220.00	- 72,450,000.00	99,480,000.00	24,950,000.00	
14,210.00	-	11,540.00	63,760.00	16,900,000.00	100,000,000.00	24,600,000.00	
14,210.00	-	15,790.00	60,310.00	35,740,000.00	100,500,000.00	24,600,000.00	
14,210.00	-	7,292.00	67,220.00	- 1,951,000.00	99,480,000.00	24,600,000.00	
-	990.00	-	11,540.00	70,960.00	- 14,570,000.00	- 4,953,000.00	
13,220.00	-	0.07	70,960.00	- 85,060,000.00	89,950,000.00	20,360,000.00	
13,220.00	-	11,540.00	70,960.00	- 14,570,000.00	89,950,000.00	20,000,000.00	
13,220.00	-	11,540.00	70,960.00	- 14,570,000.00	89,950,000.00	20,000,000.00	
13,220.00	-	7,292.00	74,420.00	- 33,420,000.00	89,430,000.00	20,000,000.00	
13,220.00	-	15,790.00	67,510.00	4,280,000.00	90,480,000.00	20,000,000.00	
13,220.00	-	7,292.00	74,420.00	- 33,420,000.00	89,430,000.00	20,000,000.00	
0.00	-	15,790.00	67,290.00	25,610,000.00	- 2,694,000.00	- 354,600.00	
14,210.00	-	4,249.00	67,290.00	- 44,880,000.00	99,780,000.00	24,950,000.00	
14,210.00	-	4,249.00	74,200.00	- 82,580,000.00	98,740,000.00	24,950,000.00	
14,210.00	-	11,540.00	70,750.00	6,765,000.00	99,260,000.00	24,600,000.00	
14,210.00	-	15,790.00	67,290.00	25,610,000.00	99,780,000.00	24,600,000.00	
14,210.00	-	7,292.00	74,200.00	- 12,080,000.00	98,740,000.00	24,600,000.00	
14,210.00	-	15,790.00	67,290.00	25,610,000.00	99,780,000.00	24,600,000.00	
14,210.00	-	7,292.00	74,200.00	- 12,080,000.00	98,740,000.00	24,600,000.00	
13,220.00	-	11,540.00	77,950.00	- 24,700,000.00	89,210,000.00	20,000,000.00	
13,220.00	-	11,540.00	77,950.00	- 24,700,000.00	89,210,000.00	20,000,000.00	
13,220.00	-	15,790.00	74,490.00	- 5,851,000.00	89,740,000.00	20,000,000.00	
13,220.00	-	15,790.00	74,490.00	- 5,851,000.00	89,740,000.00	20,000,000.00	
13,220.00	-	7,292.00	81,400.00	- 43,550,000.00	88,690,000.00	20,000,000.00	
0.00	-	4,249.00	50,960.00	- 30,180,000.00	- 1,952,000.00	17.46	
0.00	-	4,249.00	50,960.00	- 30,180,000.00	- 1,952,000.00	17.32	
0.00	-	11,540.00	54,420.00	21,470,000.00	- 2,475,000.00	- 354,600.00	
0.00	-	11,540.00	54,420.00	21,470,000.00	- 2,475,000.00	- 354,600.00	
0.00	-	15,790.00	50,960.00	40,320,000.00	- 1,952,000.00	- 354,600.00	
14,210.00	-	0.05	54,420.00	- 49,020,000.00	100,000,000.00	24,950,000.00	
14,210.00	-	4,249.00	50,960.00	- 30,180,000.00	100,500,000.00	24,950,000.00	
14,210.00	-	4,249.00	57,880.00	- 67,870,000.00	99,480,000.00	24,950,000.00	
14,210.00	-	11,540.00	54,420.00	21,470,000.00	100,000,000.00	24,600,000.00	
14,210.00	-	15,790.00	50,960.00	40,320,000.00	100,500,000.00	24,600,000.00	
14,210.00	-	7,292.00	57,880.00	2,625,000.00	99,480,000.00	24,600,000.00	
14,210.00	-	15,790.00	50,960.00	40,320,000.00	100,500,000.00	24,600,000.00	
14,210.00	-	7,292.00	57,880.00	2,625,000.00	99,480,000.00	24,600,000.00	
-	990.00	-	0.06	61,620.00	- 80,490,000.00	- 12,520,000.00	- 4,599,000.00
-	990.00	-	4,249.00	58,160.00	- 61,640,000.00	- 12,000,000.00	- 4,599,000.00
-	990.00	-	4,249.00	65,080.00	- 99,340,000.00	- 13,050,000.00	- 4,599,000.00
-	990.00	-	4,249.00	58,160.00	- 61,640,000.00	- 12,000,000.00	- 4,599,000.00
-	990.00	-	7,292.00	65,080.00	- 28,840,000.00	- 13,050,000.00	- 4,953,000.00



<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 41 di 215

Reazioni vincolari - STR A1						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
13,220.00	0.07	61,620.00	- 80,490,000.00	89,950,000.00	20,360,000.00	
13,220.00	- 4,249.00	58,160.00	- 61,640,000.00	90,480,000.00	20,360,000.00	
13,220.00	4,249.00	65,080.00	- 99,340,000.00	89,430,000.00	20,360,000.00	
13,220.00	- 11,540.00	61,620.00	- 9,992,000.00	89,950,000.00	20,000,000.00	
13,220.00	- 15,790.00	58,160.00	8,856,000.00	90,480,000.00	20,000,000.00	
13,220.00	- 7,292.00	65,080.00	- 28,840,000.00	89,430,000.00	20,000,000.00	
13,220.00	- 15,790.00	58,160.00	8,856,000.00	90,480,000.00	20,000,000.00	
13,220.00	- 7,292.00	65,080.00	- 28,840,000.00	89,430,000.00	20,000,000.00	
0.00	0.04	61,400.00	- 59,160,000.00	- 3,218,000.00	27.08	
0.00	- 11,540.00	61,400.00	11,340,000.00	- 3,218,000.00	- 354,600.00	
0.00	- 7,292.00	64,860.00	- 7,507,000.00	- 3,741,000.00	- 354,600.00	
14,210.00	0.06	61,400.00	- 59,160,000.00	99,260,000.00	24,950,000.00	
14,210.00	- 4,249.00	57,950.00	- 40,310,000.00	99,780,000.00	24,950,000.00	
14,210.00	4,249.00	64,860.00	- 78,000,000.00	98,740,000.00	24,950,000.00	
14,210.00	- 11,540.00	61,400.00	11,340,000.00	99,260,000.00	24,600,000.00	
14,210.00	- 15,790.00	57,950.00	30,190,000.00	99,780,000.00	24,600,000.00	
14,210.00	- 7,292.00	64,860.00	- 7,507,000.00	98,740,000.00	24,600,000.00	
- 990.00	- 11,540.00	68,600.00	- 20,120,000.00	- 13,270,000.00	- 4,953,000.00	
- 990.00	- 7,292.00	72,060.00	- 38,970,000.00	- 13,790,000.00	- 4,953,000.00	
- 990.00	- 15,790.00	65,150.00	- 1,275,000.00	- 12,740,000.00	- 4,953,000.00	
- 990.00	- 7,292.00	72,060.00	- 38,970,000.00	- 13,790,000.00	- 4,953,000.00	
13,220.00	0.08	68,600.00	- 90,620,000.00	89,210,000.00	20,360,000.00	
13,220.00	- 4,249.00	65,150.00	- 71,770,000.00	89,740,000.00	20,360,000.00	
13,220.00	4,249.00	72,060.00	- 109,500,000.00	88,690,000.00	20,360,000.00	
13,220.00	- 11,540.00	68,600.00	- 20,120,000.00	89,210,000.00	20,000,000.00	
13,220.00	- 15,790.00	65,150.00	- 1,276,000.00	89,740,000.00	20,000,000.00	
13,220.00	- 7,292.00	72,060.00	- 38,970,000.00	88,690,000.00	20,000,000.00	
0.00	- 11,540.00	63,760.00	16,900,000.00	- 2,475,000.00	- 354,600.00	
0.00	- 7,292.00	67,220.00	- 1,951,000.00	- 2,999,000.00	- 354,600.00	
14,210.00	- 4,249.00	60,310.00	- 34,750,000.00	100,500,000.00	24,950,000.00	
14,210.00	4,249.00	67,220.00	- 72,450,000.00	99,480,000.00	24,950,000.00	
14,210.00	- 11,540.00	63,760.00	16,900,000.00	100,000,000.00	24,600,000.00	
14,210.00	- 7,292.00	67,220.00	- 1,951,000.00	99,480,000.00	24,600,000.00	
14,210.00	- 15,790.00	60,310.00	35,740,000.00	100,500,000.00	24,600,000.00	
14,210.00	- 7,292.00	67,220.00	- 1,951,000.00	99,480,000.00	24,600,000.00	
- 990.00	- 4,249.00	67,510.00	- 66,220,000.00	- 12,000,000.00	- 4,599,000.00	
- 990.00	- 11,540.00	70,960.00	- 14,570,000.00	- 12,520,000.00	- 4,953,000.00	
- 990.00	- 15,790.00	67,510.00	4,281,000.00	- 12,000,000.00	- 4,953,000.00	
13,220.00	- 11,540.00	70,960.00	- 14,570,000.00	89,950,000.00	20,000,000.00	
13,220.00	- 15,790.00	67,510.00	4,280,000.00	90,480,000.00	20,000,000.00	
13,220.00	- 15,790.00	67,510.00	4,280,000.00	90,480,000.00	20,000,000.00	
13,220.00	- 7,292.00	74,420.00	- 33,420,000.00	89,430,000.00	20,000,000.00	
0.00	0.05	70,750.00	- 63,730,000.00	- 3,218,000.00	29.19	
0.00	- 7,292.00	74,200.00	- 12,080,000.00	- 3,741,000.00	- 354,600.00	
14,210.00	0.06	70,750.00	- 63,730,000.00	99,260,000.00	24,950,000.00	
14,210.00	- 4,249.00	67,290.00	- 44,880,000.00	99,780,000.00	24,950,000.00	
14,210.00	4,249.00	74,200.00	- 82,580,000.00	98,740,000.00	24,950,000.00	
14,210.00	- 11,540.00	70,750.00	6,765,000.00	99,260,000.00	24,600,000.00	
14,210.00	- 11,540.00	70,750.00	6,765,000.00	99,260,000.00	24,600,000.00	
14,210.00	- 15,790.00	67,290.00	25,610,000.00	99,780,000.00	24,600,000.00	
14,210.00	- 7,292.00	74,200.00	- 12,080,000.00	98,740,000.00	24,600,000.00	
- 990.00	- 11,540.00	77,950.00	- 24,700,000.00	- 13,270,000.00	- 4,953,000.00	
- 990.00	- 15,790.00	74,490.00	- 5,851,000.00	- 12,740,000.00	- 4,953,000.00	
- 990.00	- 7,292.00	81,400.00	- 43,550,000.00	- 13,790,000.00	- 4,953,000.00	
13,220.00	0.08	77,950.00	- 95,200,000.00	89,210,000.00	20,360,000.00	

GENERAL CONTRACTOR  IRICAV2	ALTA SORVEGLIANZA  GRUPPO FERROVIE DELLO STATO ITALIANE	Progetto	Lotto	Codifica Documento	Rev.	Foglio
		IN17	10	EI2CLOC000006	A	42 di 215

Reazioni vincolari - STR A1

Rx	Ry	N	Mx	My	Mz
N	N	N	Nmm	Nmm	Nmm
13,220.00	0.08	77,950.00	- 95,200,000.00	89,210,000.00	20,360,000.00
13,220.00	- 4,249.00	74,490.00	- 76,350,000.00	89,740,000.00	20,360,000.00
13,220.00	4,249.00	81,400.00	- 114,000,000.00	88,690,000.00	20,360,000.00
13,220.00	- 11,540.00	77,950.00	- 24,700,000.00	89,210,000.00	20,000,000.00
13,220.00	- 7,292.00	81,400.00	- 43,550,000.00	88,690,000.00	20,000,000.00
13,220.00	- 15,790.00	74,490.00	- 5,851,000.00	89,740,000.00	20,000,000.00
13,220.00	- 7,292.00	81,400.00	- 43,550,000.00	88,690,000.00	20,000,000.00
0.00	- 11,540.00	54,420.00	21,470,000.00	- 2,475,000.00	- 354,600.00
0.00	- 11,540.00	58,780.00	8,426,000.00	- 2,475,000.00	- 354,600.00
0.00	- 15,790.00	50,960.00	40,320,000.00	- 1,952,000.00	- 354,600.00
0.00	- 7,292.00	57,880.00	2,625,000.00	- 2,999,000.00	- 354,600.00
0.00	- 7,292.00	62,230.00	- 10,420,000.00	- 2,999,000.00	- 354,600.00
14,210.00	- 4,249.00	50,960.00	- 30,180,000.00	100,500,000.00	24,950,000.00
14,210.00	4,249.00	57,880.00	- 67,870,000.00	99,480,000.00	24,950,000.00
14,210.00	- 4,249.00	55,320.00	- 43,220,000.00	100,500,000.00	24,950,000.00
14,210.00	4,249.00	62,230.00	- 80,920,000.00	99,480,000.00	24,950,000.00
14,210.00	- 4,249.00	55,320.00	- 43,220,000.00	100,500,000.00	24,950,000.00
14,210.00	4,249.00	62,230.00	- 80,920,000.00	99,480,000.00	24,950,000.00
14,210.00	- 11,540.00	54,420.00	21,470,000.00	100,000,000.00	24,600,000.00
14,210.00	- 11,540.00	54,420.00	21,470,000.00	100,000,000.00	24,600,000.00
14,210.00	- 11,540.00	58,780.00	8,426,000.00	100,000,000.00	24,600,000.00
14,210.00	- 15,790.00	50,960.00	40,320,000.00	100,500,000.00	24,600,000.00
14,210.00	- 7,292.00	57,880.00	2,625,000.00	99,480,000.00	24,600,000.00
14,210.00	- 15,790.00	55,320.00	27,270,000.00	100,500,000.00	24,600,000.00
14,210.00	- 7,292.00	62,230.00	- 10,420,000.00	99,480,000.00	24,600,000.00
14,210.00	- 15,790.00	55,320.00	27,270,000.00	100,500,000.00	24,600,000.00
14,210.00	- 7,292.00	62,230.00	- 10,420,000.00	99,480,000.00	24,600,000.00
- 990.00	- 4,249.00	58,160.00	- 61,640,000.00	- 12,000,000.00	- 4,599,000.00
- 990.00	- 4,249.00	62,520.00	- 74,690,000.00	- 12,000,000.00	- 4,599,000.00
- 990.00	- 11,540.00	65,980.00	- 23,040,000.00	- 12,520,000.00	- 4,953,000.00
- 990.00	- 11,540.00	65,980.00	- 23,040,000.00	- 12,520,000.00	- 4,953,000.00
- 990.00	- 15,790.00	62,520.00	- 4,190,000.00	- 12,000,000.00	- 4,953,000.00
- 990.00	- 7,292.00	69,430.00	- 41,890,000.00	- 13,050,000.00	- 4,953,000.00
13,220.00	4,249.00	69,430.00	- 112,400,000.00	89,430,000.00	20,360,000.00
13,220.00	- 4,249.00	62,520.00	- 74,690,000.00	90,480,000.00	20,360,000.00
13,220.00	- 11,540.00	65,980.00	- 23,040,000.00	89,950,000.00	20,000,000.00
13,220.00	- 11,540.00	65,980.00	- 23,040,000.00	89,950,000.00	20,000,000.00
13,220.00	- 15,790.00	58,160.00	8,856,000.00	90,480,000.00	20,000,000.00
13,220.00	- 15,790.00	62,520.00	- 4,190,000.00	90,480,000.00	20,000,000.00
13,220.00	- 7,292.00	69,430.00	- 41,890,000.00	89,430,000.00	20,000,000.00
13,220.00	- 15,790.00	62,520.00	- 4,190,000.00	90,480,000.00	20,000,000.00
13,220.00	- 7,292.00	69,430.00	- 41,890,000.00	89,430,000.00	20,000,000.00
0.00	- 11,540.00	61,400.00	11,340,000.00	- 3,218,000.00	- 354,600.00
0.00	- 11,540.00	65,760.00	- 1,705,000.00	- 3,218,000.00	- 354,600.00
0.00	- 11,540.00	65,760.00	- 1,705,000.00	- 3,218,000.00	- 354,600.00
0.00	- 15,790.00	62,300.00	17,140,000.00	- 2,694,000.00	- 354,600.00
14,210.00	0.07	65,760.00	- 72,200,000.00	99,260,000.00	24,950,000.00
14,210.00	- 4,249.00	57,950.00	- 40,310,000.00	99,780,000.00	24,950,000.00
14,210.00	- 4,249.00	62,300.00	- 53,350,000.00	99,780,000.00	24,950,000.00
14,210.00	4,249.00	69,220.00	- 91,050,000.00	98,740,000.00	24,950,000.00
14,210.00	- 4,249.00	62,300.00	- 53,350,000.00	99,780,000.00	24,950,000.00
14,210.00	4,249.00	69,220.00	- 91,050,000.00	98,740,000.00	24,950,000.00
14,210.00	- 11,540.00	65,760.00	- 1,705,000.00	99,260,000.00	24,600,000.00
14,210.00	- 11,540.00	65,760.00	- 1,705,000.00	99,260,000.00	24,600,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> <small>GRUPPO FERROVIE DELLO STATO ITALIANE</small>				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		<b>Progetto</b> <b>IN17</b>	<b>Lotto</b> <b>10</b>	<b>Codifica Documento</b> <b>EI2CLOC000006</b>	<b>Rev.</b> <b>A</b>	<b>Foglio</b> <b>43 di 215</b>

Reazioni vincolari - STR A1						
Rx	Ry		N	Mx	My	Mz
N	N		N	Nmm	Nmm	Nmm
14,210.00	-	15,790.00	62,300.00	17,140,000.00	99,780,000.00	24,600,000.00
14,210.00	-	7,292.00	69,220.00	- 20,550,000.00	98,740,000.00	24,600,000.00
14,210.00	-	15,790.00	62,300.00	17,140,000.00	99,780,000.00	24,600,000.00
14,210.00	-	7,292.00	69,220.00	- 20,550,000.00	98,740,000.00	24,600,000.00
-	990.00	0.06	68,600.00	- 90,620,000.00	- 13,270,000.00	- 4,599,000.00
-	990.00	4,249.00	76,420.00	- 122,500,000.00	- 13,790,000.00	- 4,598,000.00
-	990.00	- 15,790.00	69,500.00	- 14,320,000.00	- 12,740,000.00	- 4,953,000.00
-	990.00	- 7,292.00	76,420.00	- 52,020,000.00	- 13,790,000.00	- 4,953,000.00
-	990.00	- 7,292.00	76,420.00	- 52,020,000.00	- 13,790,000.00	- 4,953,000.00
13,220.00		0.08	68,600.00	- 90,620,000.00	89,210,000.00	20,360,000.00
13,220.00		0.09	72,960.00	- 103,700,000.00	89,210,000.00	20,360,000.00
13,220.00		4,249.00	76,420.00	- 122,500,000.00	88,690,000.00	20,360,000.00
13,220.00	-	4,249.00	69,500.00	- 84,820,000.00	89,740,000.00	20,360,000.00
13,220.00	-	11,540.00	72,960.00	- 33,170,000.00	89,210,000.00	20,000,000.00
13,220.00	-	11,540.00	72,960.00	- 33,170,000.00	89,210,000.00	20,000,000.00
13,220.00	-	15,790.00	65,150.00	- 1,276,000.00	89,740,000.00	20,000,000.00
13,220.00	-	7,292.00	72,060.00	- 38,970,000.00	88,690,000.00	20,000,000.00
13,220.00	-	15,790.00	65,150.00	- 1,276,000.00	89,740,000.00	20,000,000.00
13,220.00	-	7,292.00	72,060.00	- 38,970,000.00	88,690,000.00	20,000,000.00
13,220.00	-	15,790.00	69,500.00	- 14,320,000.00	89,740,000.00	20,000,000.00
13,220.00	-	7,292.00	76,420.00	- 52,020,000.00	88,690,000.00	20,000,000.00
13,220.00	-	15,790.00	69,500.00	- 14,320,000.00	89,740,000.00	20,000,000.00
13,220.00	-	7,292.00	76,420.00	- 52,020,000.00	88,690,000.00	20,000,000.00
0.00		0.05	68,120.00	- 66,650,000.00	- 2,475,000.00	30.85
0.00	-	11,540.00	63,760.00	16,900,000.00	- 2,475,000.00	- 354,600.00
0.00	-	11,540.00	68,120.00	3,851,000.00	- 2,475,000.00	- 354,600.00
0.00	-	11,540.00	68,120.00	3,851,000.00	- 2,475,000.00	- 354,600.00
0.00	-	15,790.00	60,310.00	35,740,000.00	- 1,952,000.00	- 354,600.00
0.00	-	15,790.00	64,660.00	22,700,000.00	- 1,952,000.00	- 354,600.00
0.00	-	7,292.00	71,580.00	- 15,000,000.00	- 2,999,000.00	- 354,600.00
14,210.00		0.05	63,760.00	- 53,600,000.00	100,000,000.00	24,950,000.00
14,210.00		0.06	68,120.00	- 66,650,000.00	100,000,000.00	24,950,000.00
14,210.00		4,249.00	71,580.00	- 85,490,000.00	99,480,000.00	24,950,000.00
14,210.00	-	11,540.00	63,760.00	16,900,000.00	100,000,000.00	24,600,000.00
14,210.00	-	11,540.00	68,120.00	3,851,000.00	100,000,000.00	24,600,000.00
14,210.00	-	11,540.00	68,120.00	3,851,000.00	100,000,000.00	24,600,000.00
14,210.00	-	15,790.00	60,310.00	35,740,000.00	100,500,000.00	24,600,000.00
14,210.00	-	15,790.00	64,660.00	22,700,000.00	100,500,000.00	24,600,000.00
14,210.00	-	7,292.00	71,580.00	- 15,000,000.00	99,480,000.00	24,600,000.00
14,210.00	-	15,790.00	64,660.00	22,700,000.00	100,500,000.00	24,600,000.00
14,210.00	-	7,292.00	71,580.00	- 15,000,000.00	99,480,000.00	24,600,000.00
-	990.00	0.06	70,960.00	- 85,060,000.00	- 12,520,000.00	- 4,599,000.00
-	990.00	- 4,249.00	67,510.00	- 66,220,000.00	- 12,000,000.00	- 4,599,000.00
-	990.00	- 4,249.00	67,510.00	- 66,220,000.00	- 12,000,000.00	- 4,599,000.00
-	990.00	4,249.00	74,420.00	- 103,900,000.00	- 13,050,000.00	- 4,599,000.00
-	990.00	- 15,790.00	67,510.00	4,281,000.00	- 12,000,000.00	- 4,953,000.00
-	990.00	- 7,292.00	74,420.00	- 33,420,000.00	- 13,050,000.00	- 4,953,000.00
-	990.00	- 15,790.00	71,860.00	- 8,766,000.00	- 12,000,000.00	- 4,953,000.00
-	990.00	- 7,292.00	78,780.00	- 46,460,000.00	- 13,050,000.00	- 4,953,000.00
13,220.00		0.08	75,320.00	- 98,110,000.00	89,950,000.00	20,360,000.00
13,220.00		4,249.00	74,420.00	- 103,900,000.00	89,430,000.00	20,360,000.00
13,220.00		4,249.00	74,420.00	- 103,900,000.00	89,430,000.00	20,360,000.00
13,220.00	-	4,249.00	71,860.00	- 79,260,000.00	90,480,000.00	20,360,000.00
13,220.00	-	11,540.00	75,320.00	- 27,610,000.00	89,950,000.00	20,000,000.00
13,220.00	-	11,540.00	75,320.00	- 27,610,000.00	89,950,000.00	20,000,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE					
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45			Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 44 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
	13,220.00	-	15,790.00		71,860.00	-	8,766,000.00	90,480,000.00		20,000,000.00
	13,220.00	-	7,292.00		78,780.00	-	46,460,000.00	89,430,000.00		20,000,000.00
	13,220.00	-	15,790.00		71,860.00	-	8,766,000.00	90,480,000.00		20,000,000.00
	13,220.00	-	7,292.00		78,780.00	-	46,460,000.00	89,430,000.00		20,000,000.00
	0.00	-	4,249.00		67,290.00	-	44,880,000.00	- 2,694,000.00		24.23
	0.00	-	4,249.00		67,290.00	-	44,880,000.00	- 2,694,000.00		24.38
	0.00	-	4,249.00		71,650.00	-	57,930,000.00	- 2,694,000.00		30.40
	0.00	-	4,249.00		78,560.00	-	95,630,000.00	- 3,741,000.00		40.61
	0.00	-	11,540.00		70,750.00		6,765,000.00	- 3,218,000.00	-	354,600.00
	0.00	-	11,540.00		70,750.00		6,765,000.00	- 3,218,000.00	-	354,600.00
	0.00	-	11,540.00		75,100.00	-	6,281,000.00	- 3,218,000.00	-	354,600.00
	0.00	-	7,292.00		74,200.00	-	12,080,000.00	- 3,741,000.00	-	354,600.00
	14,210.00		0.06		70,750.00	-	63,730,000.00	99,260,000.00		24,950,000.00
	14,210.00	-	4,249.00		71,650.00	-	57,930,000.00	99,780,000.00		24,950,000.00
	14,210.00		4,249.00		78,560.00	-	95,630,000.00	98,740,000.00		24,950,000.00
	14,210.00	-	11,540.00		75,100.00	-	6,281,000.00	99,260,000.00		24,600,000.00
	14,210.00	-	11,540.00		75,100.00	-	6,281,000.00	99,260,000.00		24,600,000.00
	14,210.00	-	15,790.00		71,650.00		12,570,000.00	99,780,000.00		24,600,000.00
	14,210.00	-	7,292.00		78,560.00	-	25,130,000.00	98,740,000.00		24,600,000.00
	14,210.00	-	15,790.00		71,650.00		12,570,000.00	99,780,000.00		24,600,000.00
	14,210.00	-	7,292.00		78,560.00	-	25,130,000.00	98,740,000.00		24,600,000.00
-	990.00		0.07		77,950.00	-	95,200,000.00	- 13,270,000.00	-	4,599,000.00
-	990.00	-	11,540.00		77,950.00	-	24,700,000.00	- 13,270,000.00	-	4,953,000.00
-	990.00	-	15,790.00		78,850.00	-	18,900,000.00	- 12,740,000.00	-	4,953,000.00
-	990.00	-	7,292.00		85,760.00	-	56,590,000.00	- 13,790,000.00	-	4,953,000.00
	13,220.00		0.09		82,300.00	-	108,200,000.00	89,210,000.00		20,360,000.00
	13,220.00	-	4,249.00		74,490.00	-	76,350,000.00	89,740,000.00		20,360,000.00
	13,220.00	-	4,249.00		74,490.00	-	76,350,000.00	89,740,000.00		20,360,000.00
	13,220.00		4,249.00		85,760.00	-	127,100,000.00	88,690,000.00		20,360,000.00
	13,220.00	-	4,249.00		78,850.00	-	89,390,000.00	89,740,000.00		20,360,000.00
	13,220.00		4,249.00		85,760.00	-	127,100,000.00	88,690,000.00		20,360,000.00
	13,220.00	-	11,540.00		82,300.00	-	37,750,000.00	89,210,000.00		20,000,000.00
	13,220.00	-	11,540.00		82,300.00	-	37,750,000.00	89,210,000.00		20,000,000.00
	13,220.00	-	15,790.00		78,850.00	-	18,900,000.00	89,740,000.00		20,000,000.00
	13,220.00	-	7,292.00		85,760.00	-	56,590,000.00	88,690,000.00		20,000,000.00
	13,220.00	-	15,790.00		78,850.00	-	18,900,000.00	89,740,000.00		20,000,000.00
	13,220.00	-	7,292.00		85,760.00	-	56,590,000.00	88,690,000.00		20,000,000.00
	0.00		4,249.00		57,880.00	-	67,870,000.00	- 2,999,000.00		27.82
-	14,210.00	-	4,249.00		50,960.00	-	30,180,000.00	- 104,400,000.00	-	24,950,000.00
-	14,210.00		4,249.00		57,880.00	-	67,870,000.00	- 105,500,000.00	-	24,950,000.00
-	14,210.00		6,370.00		50,960.00	-	93,460,000.00	- 104,400,000.00	-	24,600,000.00
-	990.00		10,620.00		61,620.00	-	143,800,000.00	- 12,520,000.00	-	4,244,000.00
-	15,200.00	-	4,249.00		58,160.00	-	61,640,000.00	- 114,500,000.00	-	29,550,000.00
-	15,200.00		4,249.00		65,080.00	-	99,340,000.00	- 115,500,000.00	-	29,550,000.00
-	15,200.00		10,620.00		61,620.00	-	143,800,000.00	- 115,000,000.00	-	29,200,000.00
-	15,200.00		6,370.00		58,160.00	-	124,900,000.00	- 114,500,000.00	-	29,200,000.00
-	15,200.00		14,870.00		65,080.00	-	162,600,000.00	- 115,500,000.00	-	29,200,000.00
	0.00		0.04		61,400.00	-	59,160,000.00	- 3,218,000.00		27.37
	0.00		10,620.00		61,400.00	-	122,400,000.00	- 3,218,000.00		354,700.00
	0.00		6,370.00		57,950.00	-	103,600,000.00	- 2,694,000.00		354,700.00
	0.00		14,870.00		64,860.00	-	141,300,000.00	- 3,741,000.00		354,700.00
-	14,210.00	-	4,249.00		57,950.00	-	40,310,000.00	- 105,200,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		57,950.00	-	40,310,000.00	- 105,200,000.00	-	24,950,000.00
-	14,210.00		10,620.00		61,400.00	-	122,400,000.00	- 105,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00		57,950.00	-	103,600,000.00	- 105,200,000.00	-	24,600,000.00

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto <b>IN17</b>	Lotto <b>10</b>	Codifica Documento <b>EI2CLOC000006</b>	Rev. <b>A</b>	Foglio <b>45 di 215</b>

Reazioni vincolari - STR A1						
<b>Rx</b>	<b>Ry</b>	<b>N</b>	<b>Mx</b>	<b>My</b>	<b>Mz</b>	
<b>N</b>	<b>N</b>	<b>N</b>	<b>Nmm</b>	<b>Nmm</b>	<b>Nmm</b>	
-	14,210.00	14,870.00	64,860.00	- 141,300,000.00	- 106,200,000.00	- 24,600,000.00
-	14,210.00	14,870.00	64,860.00	- 141,300,000.00	- 106,200,000.00	- 24,600,000.00
-	15,200.00	- 4,249.00	65,150.00	- 71,770,000.00	- 115,200,000.00	- 29,550,000.00
-	15,200.00	4,249.00	72,060.00	- 109,500,000.00	- 116,300,000.00	- 29,550,000.00
-	15,200.00	10,620.00	68,600.00	- 153,900,000.00	- 115,700,000.00	- 29,200,000.00
-	15,200.00	6,370.00	65,150.00	- 135,100,000.00	- 115,200,000.00	- 29,200,000.00
-	15,200.00	14,870.00	72,060.00	- 172,700,000.00	- 116,300,000.00	- 29,200,000.00
0.00	10,620.00	63,760.00	- 116,900,000.00	- 2,475,000.00		354,700.00
0.00	14,870.00	67,220.00	- 135,700,000.00	- 2,999,000.00		354,700.00
-	14,210.00	- 4,249.00	60,310.00	- 34,750,000.00	- 104,400,000.00	- 24,950,000.00
-	14,210.00	6,370.00	60,310.00	- 98,030,000.00	- 104,400,000.00	- 24,600,000.00
-	14,210.00	6,370.00	60,310.00	- 98,030,000.00	- 104,400,000.00	- 24,600,000.00
-	990.00	4,249.00	74,420.00	- 103,900,000.00	- 13,050,000.00	- 4,599,000.00
-	15,200.00	- 4,249.00	67,510.00	- 66,220,000.00	- 114,500,000.00	- 29,550,000.00
-	15,200.00	6,370.00	67,510.00	- 129,500,000.00	- 114,500,000.00	- 29,200,000.00
-	15,200.00	14,870.00	74,420.00	- 167,200,000.00	- 115,500,000.00	- 29,200,000.00
0.00	10,620.00	70,750.00	- 127,000,000.00	- 3,218,000.00		354,700.00
0.00	6,370.00	67,290.00	- 108,200,000.00	- 2,694,000.00		354,700.00
0.00	14,870.00	74,200.00	- 145,900,000.00	- 3,741,000.00		354,700.00
-	14,210.00	0.03	70,750.00	- 63,730,000.00	- 105,700,000.00	- 24,950,000.00
-	14,210.00	- 4,249.00	67,290.00	- 44,880,000.00	- 105,200,000.00	- 24,950,000.00
-	14,210.00	4,249.00	74,200.00	- 82,580,000.00	- 106,200,000.00	- 24,950,000.00
-	14,210.00	14,870.00	74,200.00	- 145,900,000.00	- 106,200,000.00	- 24,600,000.00
-	990.00	10,620.00	77,950.00	- 158,500,000.00	- 13,270,000.00	- 4,244,000.00
-	990.00	6,370.00	74,490.00	- 139,600,000.00	- 12,740,000.00	- 4,244,000.00
-	990.00	14,870.00	81,400.00	- 177,300,000.00	- 13,790,000.00	- 4,244,000.00
-	990.00	14,870.00	81,400.00	- 177,300,000.00	- 13,790,000.00	- 4,244,000.00
-	15,200.00	0.05	77,950.00	- 95,200,000.00	- 115,700,000.00	- 29,550,000.00
-	15,200.00	0.05	77,950.00	- 95,200,000.00	- 115,700,000.00	- 29,550,000.00
-	15,200.00	10,620.00	77,950.00	- 158,500,000.00	- 115,700,000.00	- 29,200,000.00
-	15,200.00	6,370.00	74,490.00	- 139,600,000.00	- 115,200,000.00	- 29,200,000.00
0.00	0.04	54,420.00	- 49,020,000.00	- 2,475,000.00		22.42
-	14,210.00	0.02	54,420.00	- 49,020,000.00	- 105,000,000.00	- 24,950,000.00
-	14,210.00	10,620.00	54,420.00	- 112,300,000.00	- 105,000,000.00	- 24,600,000.00
-	14,210.00	6,370.00	50,960.00	- 93,460,000.00	- 104,400,000.00	- 24,600,000.00
-	14,210.00	14,870.00	57,880.00	- 131,200,000.00	- 105,500,000.00	- 24,600,000.00
-	990.00	0.06	61,620.00	- 80,490,000.00	- 12,520,000.00	- 4,599,000.00
-	990.00	14,870.00	65,080.00	- 162,600,000.00	- 13,050,000.00	- 4,244,000.00
-	15,200.00	0.04	61,620.00	- 80,490,000.00	- 115,000,000.00	- 29,550,000.00
-	15,200.00	- 4,249.00	58,160.00	- 61,640,000.00	- 114,500,000.00	- 29,550,000.00
-	15,200.00	4,249.00	65,080.00	- 99,340,000.00	- 115,500,000.00	- 29,550,000.00
-	15,200.00	10,620.00	61,620.00	- 143,800,000.00	- 115,000,000.00	- 29,200,000.00
-	15,200.00	6,370.00	58,160.00	- 124,900,000.00	- 114,500,000.00	- 29,200,000.00
-	15,200.00	14,870.00	65,080.00	- 162,600,000.00	- 115,500,000.00	- 29,200,000.00
0.00	- 4,249.00	57,950.00	- 40,310,000.00	- 2,694,000.00		22.12
0.00	4,249.00	64,860.00	- 78,000,000.00	- 3,741,000.00		32.33
0.00	4,249.00	64,860.00	- 78,000,000.00	- 3,741,000.00		32.18
0.00	6,370.00	57,950.00	- 103,600,000.00	- 2,694,000.00		354,700.00
-	14,210.00	0.03	61,400.00	- 59,160,000.00	- 105,700,000.00	- 24,950,000.00
-	14,210.00	4,249.00	64,860.00	- 78,000,000.00	- 106,200,000.00	- 24,950,000.00
-	14,210.00	10,620.00	61,400.00	- 122,400,000.00	- 105,700,000.00	- 24,600,000.00
-	14,210.00	6,370.00	57,950.00	- 103,600,000.00	- 105,200,000.00	- 24,600,000.00
-	14,210.00	14,870.00	64,860.00	- 141,300,000.00	- 106,200,000.00	- 24,600,000.00
-	990.00	- 4,249.00	65,150.00	- 71,770,000.00	- 12,740,000.00	- 4,599,000.00
-	990.00	4,249.00	72,060.00	- 109,500,000.00	- 13,790,000.00	- 4,599,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		<b>Progetto</b> IN17	<b>Lotto</b> 10	<b>Codifica Documento</b> EI2CLOC000006	<b>Rev.</b> A	<b>Foglio</b> 46 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	990.00		10,620.00		68,600.00	- 153,900,000.00	-	13,270,000.00	-	4,244,000.00
-	990.00		6,370.00		65,150.00	- 135,100,000.00	-	12,740,000.00	-	4,244,000.00
-	990.00		14,870.00		72,060.00	- 172,700,000.00	-	13,790,000.00	-	4,244,000.00
-	15,200.00		0.05		68,600.00	- 90,620,000.00	-	115,700,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00		65,150.00	- 71,770,000.00	-	115,200,000.00	-	29,550,000.00
-	15,200.00		4,249.00		72,060.00	- 109,500,000.00	-	116,300,000.00	-	29,550,000.00
-	15,200.00		10,620.00		68,600.00	- 153,900,000.00	-	115,700,000.00	-	29,200,000.00
-	15,200.00		6,370.00		65,150.00	- 135,100,000.00	-	115,200,000.00	-	29,200,000.00
-	15,200.00		14,870.00		72,060.00	- 172,700,000.00	-	116,300,000.00	-	29,200,000.00
	0.00	-	4,249.00		60,310.00	- 34,750,000.00	-	1,952,000.00		19.43
	0.00		14,870.00		67,220.00	- 135,700,000.00	-	2,999,000.00		354,700.00
-	14,210.00		10,620.00		63,760.00	- 116,900,000.00	-	105,000,000.00	-	24,600,000.00
-	14,210.00		10,620.00		63,760.00	- 116,900,000.00	-	105,000,000.00	-	24,600,000.00
-	14,210.00		6,370.00		60,310.00	- 98,030,000.00	-	104,400,000.00	-	24,600,000.00
-	14,210.00		14,870.00		67,220.00	- 135,700,000.00	-	105,500,000.00	-	24,600,000.00
-	990.00		4,249.00		74,420.00	- 103,900,000.00	-	13,050,000.00	-	4,599,000.00
-	990.00		10,620.00		70,960.00	- 148,300,000.00	-	12,520,000.00	-	4,244,000.00
-	990.00		14,870.00		74,420.00	- 167,200,000.00	-	13,050,000.00	-	4,244,000.00
-	990.00		6,370.00		67,510.00	- 129,500,000.00	-	12,000,000.00	-	4,244,000.00
-	15,200.00		0.05		70,960.00	- 85,060,000.00	-	115,000,000.00	-	29,550,000.00
-	15,200.00		4,249.00		74,420.00	- 103,900,000.00	-	115,500,000.00	-	29,550,000.00
-	15,200.00		4,249.00		74,420.00	- 103,900,000.00	-	115,500,000.00	-	29,550,000.00
-	15,200.00		10,620.00		70,960.00	- 148,300,000.00	-	115,000,000.00	-	29,200,000.00
-	15,200.00		10,620.00		70,960.00	- 148,300,000.00	-	115,000,000.00	-	29,200,000.00
-	15,200.00		6,370.00		67,510.00	- 129,500,000.00	-	114,500,000.00	-	29,200,000.00
-	15,200.00		14,870.00		74,420.00	- 167,200,000.00	-	115,500,000.00	-	29,200,000.00
-	15,200.00		6,370.00		67,510.00	- 129,500,000.00	-	114,500,000.00	-	29,200,000.00
-	15,200.00		14,870.00		74,420.00	- 167,200,000.00	-	115,500,000.00	-	29,200,000.00
	0.00		6,370.00		67,290.00	- 108,200,000.00	-	2,694,000.00		354,700.00
	0.00		14,870.00		74,200.00	- 145,900,000.00	-	3,741,000.00		354,700.00
	0.00		6,370.00		67,290.00	- 108,200,000.00	-	2,694,000.00		354,700.00
	0.00		14,870.00		74,200.00	- 145,900,000.00	-	3,741,000.00		354,700.00
-	14,210.00		0.03		70,750.00	- 63,730,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		67,290.00	- 44,880,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		74,200.00	- 82,580,000.00	-	106,200,000.00	-	24,950,000.00
-	14,210.00		10,620.00		70,750.00	- 127,000,000.00	-	105,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00		67,290.00	- 108,200,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		67,290.00	- 108,200,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		74,200.00	- 145,900,000.00	-	106,200,000.00	-	24,600,000.00
-	990.00	-	4,249.00		74,490.00	- 76,350,000.00	-	12,740,000.00	-	4,599,000.00
-	990.00		10,620.00		77,950.00	- 158,500,000.00	-	13,270,000.00	-	4,244,000.00
-	990.00		10,620.00		77,950.00	- 158,500,000.00	-	13,270,000.00	-	4,244,000.00
-	990.00		6,370.00		74,490.00	- 139,600,000.00	-	12,740,000.00	-	4,244,000.00
-	990.00		14,870.00		81,400.00	- 177,300,000.00	-	13,790,000.00	-	4,244,000.00
-	15,200.00		0.05		77,950.00	- 95,200,000.00	-	115,700,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00		74,490.00	- 76,350,000.00	-	115,200,000.00	-	29,550,000.00
-	15,200.00		10,620.00		77,950.00	- 158,500,000.00	-	115,700,000.00	-	29,200,000.00
-	15,200.00		6,370.00		74,490.00	- 139,600,000.00	-	115,200,000.00	-	29,200,000.00
-	15,200.00		14,870.00		81,400.00	- 177,300,000.00	-	116,300,000.00	-	29,200,000.00
	0.00		0.04		58,780.00	- 62,070,000.00	-	2,475,000.00		28.59
	0.00		4,249.00		57,880.00	- 67,870,000.00	-	2,999,000.00		27.67
	0.00	-	4,249.00		55,320.00	- 43,220,000.00	-	1,952,000.00		23.63
	0.00		4,249.00		62,230.00	- 80,920,000.00	-	2,999,000.00		33.84
	0.00		14,870.00		62,230.00	- 144,200,000.00	-	2,999,000.00		354,700.00
	0.00		14,870.00		62,230.00	- 144,200,000.00	-	2,999,000.00		354,700.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> <small>GRUPPO FERROVIE DELLO STATO ITALIANE</small>				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>	<b>Progetto</b> IN17	<b>Lotto</b> 10	<b>Codifica Documento</b> E12CLOC000006	<b>Rev.</b> A	<b>Foglio</b> 47 di 215

Reazioni vincolari - STR A1							
Rx	Ry		N		Mx	My	Mz
	N	N	N	N	Nmm	Nmm	Nmm
-	14,210.00	0.02		54,420.00	- 49,020,000.00	- 105,000,000.00	- 24,950,000.00
-	14,210.00	0.03		58,780.00	- 62,070,000.00	- 105,000,000.00	- 24,950,000.00
-	14,210.00	- 4,249.00		55,320.00	- 43,220,000.00	- 104,400,000.00	- 24,950,000.00
-	14,210.00	- 4,249.00		55,320.00	- 43,220,000.00	- 104,400,000.00	- 24,950,000.00
-	14,210.00	10,620.00		54,420.00	- 112,300,000.00	- 105,000,000.00	- 24,600,000.00
-	14,210.00	10,620.00		54,420.00	- 112,300,000.00	- 105,000,000.00	- 24,600,000.00
-	14,210.00	10,620.00		58,780.00	- 125,400,000.00	- 105,000,000.00	- 24,600,000.00
-	14,210.00	10,620.00		58,780.00	- 125,400,000.00	- 105,000,000.00	- 24,600,000.00
-	14,210.00	14,870.00		57,880.00	- 131,200,000.00	- 105,500,000.00	- 24,600,000.00
-	14,210.00	6,370.00		50,960.00	- 93,460,000.00	- 104,400,000.00	- 24,600,000.00
-	14,210.00	14,870.00		57,880.00	- 131,200,000.00	- 105,500,000.00	- 24,600,000.00
-	14,210.00	6,370.00		55,320.00	- 106,500,000.00	- 104,400,000.00	- 24,600,000.00
-	14,210.00	14,870.00		62,230.00	- 144,200,000.00	- 105,500,000.00	- 24,600,000.00
-	14,210.00	6,370.00		55,320.00	- 106,500,000.00	- 104,400,000.00	- 24,600,000.00
-	14,210.00	14,870.00		62,230.00	- 144,200,000.00	- 105,500,000.00	- 24,600,000.00
-	990.00	0.06		65,980.00	- 93,530,000.00	- 12,520,000.00	- 4,599,000.00
-	990.00	- 4,249.00		62,520.00	- 74,690,000.00	- 12,000,000.00	- 4,599,000.00
-	990.00	4,249.00		69,430.00	- 112,400,000.00	- 13,050,000.00	- 4,599,000.00
-	990.00	10,620.00		65,980.00	- 156,800,000.00	- 12,520,000.00	- 4,244,000.00
-	990.00	14,870.00		69,430.00	- 175,700,000.00	- 13,050,000.00	- 4,244,000.00
-	990.00	6,370.00		62,520.00	- 138,000,000.00	- 12,000,000.00	- 4,244,000.00
-	990.00	14,870.00		69,430.00	- 175,700,000.00	- 13,050,000.00	- 4,244,000.00
-	15,200.00	0.04		61,620.00	- 80,490,000.00	- 115,000,000.00	- 29,550,000.00
-	15,200.00	0.05		65,980.00	- 93,530,000.00	- 115,000,000.00	- 29,550,000.00
-	15,200.00	0.05		65,980.00	- 93,530,000.00	- 115,000,000.00	- 29,550,000.00
-	15,200.00	- 4,249.00		58,160.00	- 61,640,000.00	- 114,500,000.00	- 29,550,000.00
-	15,200.00	10,620.00		61,620.00	- 143,800,000.00	- 115,000,000.00	- 29,200,000.00
-	15,200.00	10,620.00		65,980.00	- 156,800,000.00	- 115,000,000.00	- 29,200,000.00
-	15,200.00	10,620.00		65,980.00	- 156,800,000.00	- 115,000,000.00	- 29,200,000.00
-	15,200.00	6,370.00		58,160.00	- 124,900,000.00	- 114,500,000.00	- 29,200,000.00
-	15,200.00	14,870.00		65,080.00	- 162,600,000.00	- 115,500,000.00	- 29,200,000.00
-	15,200.00	6,370.00		62,520.00	- 138,000,000.00	- 114,500,000.00	- 29,200,000.00
-	15,200.00	14,870.00		69,430.00	- 175,700,000.00	- 115,500,000.00	- 29,200,000.00
-	15,200.00	6,370.00		62,520.00	- 138,000,000.00	- 114,500,000.00	- 29,200,000.00
-	15,200.00	14,870.00		69,430.00	- 175,700,000.00	- 115,500,000.00	- 29,200,000.00
	0.00	0.05		65,760.00	- 72,200,000.00	- 3,218,000.00	33.39
	0.00	- 4,249.00		62,300.00	- 53,350,000.00	- 2,694,000.00	28.14
	0.00	4,249.00		69,220.00	- 91,050,000.00	- 3,741,000.00	38.35
	0.00	- 4,249.00		62,300.00	- 53,350,000.00	- 2,694,000.00	28.29
	0.00	4,249.00		69,220.00	- 91,050,000.00	- 3,741,000.00	38.50
	0.00	6,370.00		62,300.00	- 116,600,000.00	- 2,694,000.00	354,700.00
-	14,210.00	0.03		61,400.00	- 59,160,000.00	- 105,700,000.00	- 24,950,000.00
-	14,210.00	0.04		65,760.00	- 72,200,000.00	- 105,700,000.00	- 24,950,000.00
-	14,210.00	- 4,249.00		62,300.00	- 53,350,000.00	- 105,200,000.00	- 24,950,000.00
-	14,210.00	10,620.00		61,400.00	- 122,400,000.00	- 105,700,000.00	- 24,600,000.00
-	14,210.00	10,620.00		65,760.00	- 135,500,000.00	- 105,700,000.00	- 24,600,000.00
-	14,210.00	10,620.00		65,760.00	- 135,500,000.00	- 105,700,000.00	- 24,600,000.00
-	14,210.00	6,370.00		57,950.00	- 103,600,000.00	- 105,200,000.00	- 24,600,000.00
-	14,210.00	6,370.00		62,300.00	- 116,600,000.00	- 105,200,000.00	- 24,600,000.00
-	14,210.00	14,870.00		69,220.00	- 154,300,000.00	- 106,200,000.00	- 24,600,000.00
-	14,210.00	6,370.00		62,300.00	- 116,600,000.00	- 105,200,000.00	- 24,600,000.00
-	14,210.00	14,870.00		69,220.00	- 154,300,000.00	- 106,200,000.00	- 24,600,000.00
-	990.00	0.07		72,960.00	- 103,700,000.00	- 13,270,000.00	- 4,599,000.00
-	990.00	10,620.00		72,960.00	- 166,900,000.00	- 13,270,000.00	- 4,244,000.00
-	990.00	10,620.00		72,960.00	- 166,900,000.00	- 13,270,000.00	- 4,244,000.00

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>	<b>Progetto</b> IN17	<b>Lotto</b> 10	<b>Codifica Documento</b> EI2CLOC000006	<b>Rev.</b> A	<b>Foglio</b> 48 di 215

Reazioni vincolari - STR A1						
<b>Rx</b>	<b>Ry</b>	<b>N</b>	<b>N</b>	<b>Mx</b>	<b>My</b>	<b>Mz</b>
<b>N</b>	<b>N</b>	<b>N</b>	<b>N</b>	<b>Nmm</b>	<b>Nmm</b>	<b>Nmm</b>
-	990.00	6,370.00	65,150.00	- 135,100,000.00	- 12,740,000.00	- 4,244,000.00
-	990.00	6,370.00	65,150.00	- 135,100,000.00	- 12,740,000.00	- 4,244,000.00
-	990.00	14,870.00	72,060.00	- 172,700,000.00	- 13,790,000.00	- 4,244,000.00
-	990.00	6,370.00	69,500.00	- 148,100,000.00	- 12,740,000.00	- 4,244,000.00
-	990.00	14,870.00	76,420.00	- 185,800,000.00	- 13,790,000.00	- 4,244,000.00
-	990.00	6,370.00	69,500.00	- 148,100,000.00	- 12,740,000.00	- 4,244,000.00
-	990.00	14,870.00	76,420.00	- 185,800,000.00	- 13,790,000.00	- 4,244,000.00
-	15,200.00	- 4,249.00	69,500.00	- 84,820,000.00	- 115,200,000.00	- 29,550,000.00
-	15,200.00	10,620.00	68,600.00	- 153,900,000.00	- 115,700,000.00	- 29,200,000.00
-	15,200.00	10,620.00	72,960.00	- 166,900,000.00	- 115,700,000.00	- 29,200,000.00
-	15,200.00	10,620.00	72,960.00	- 166,900,000.00	- 115,700,000.00	- 29,200,000.00
-	15,200.00	6,370.00	65,150.00	- 135,100,000.00	- 115,200,000.00	- 29,200,000.00
-	15,200.00	14,870.00	72,060.00	- 172,700,000.00	- 116,300,000.00	- 29,200,000.00
-	15,200.00	6,370.00	69,500.00	- 148,100,000.00	- 115,200,000.00	- 29,200,000.00
-	15,200.00	14,870.00	76,420.00	- 185,800,000.00	- 116,300,000.00	- 29,200,000.00
-	15,200.00	6,370.00	69,500.00	- 148,100,000.00	- 115,200,000.00	- 29,200,000.00
-	15,200.00	14,870.00	76,420.00	- 185,800,000.00	- 116,300,000.00	- 29,200,000.00
0.00	- 4,249.00	64,660.00	- 47,800,000.00	- 1,952,000.00	25.60	
0.00	- 4,249.00	64,660.00	- 47,800,000.00	- 1,952,000.00	25.74	
0.00	10,620.00	68,120.00	- 129,900,000.00	- 2,475,000.00	354,700.00	
0.00	6,370.00	60,310.00	- 98,030,000.00	- 1,952,000.00	354,700.00	
0.00	14,870.00	67,220.00	- 135,700,000.00	- 2,999,000.00	354,700.00	
0.00	6,370.00	64,660.00	- 111,100,000.00	- 1,952,000.00	354,700.00	
-	14,210.00	0.03	68,120.00	- 66,650,000.00	- 105,000,000.00	- 24,950,000.00
-	14,210.00	- 4,249.00	64,660.00	- 47,800,000.00	- 104,400,000.00	- 24,950,000.00
-	14,210.00	4,249.00	71,580.00	- 85,490,000.00	- 105,500,000.00	- 24,950,000.00
-	14,210.00	4,249.00	71,580.00	- 85,490,000.00	- 105,500,000.00	- 24,950,000.00
-	14,210.00	10,620.00	63,760.00	- 116,900,000.00	- 105,000,000.00	- 24,600,000.00
-	14,210.00	10,620.00	68,120.00	- 129,900,000.00	- 105,000,000.00	- 24,600,000.00
-	14,210.00	10,620.00	68,120.00	- 129,900,000.00	- 105,000,000.00	- 24,600,000.00
-	14,210.00	14,870.00	67,220.00	- 135,700,000.00	- 105,500,000.00	- 24,600,000.00
-	14,210.00	14,870.00	67,220.00	- 135,700,000.00	- 105,500,000.00	- 24,600,000.00
-	14,210.00	6,370.00	64,660.00	- 111,100,000.00	- 104,400,000.00	- 24,600,000.00
-	14,210.00	14,870.00	71,580.00	- 148,800,000.00	- 105,500,000.00	- 24,600,000.00
-	14,210.00	6,370.00	64,660.00	- 111,100,000.00	- 104,400,000.00	- 24,600,000.00
-	14,210.00	14,870.00	71,580.00	- 148,800,000.00	- 105,500,000.00	- 24,600,000.00
-	990.00	0.07	75,320.00	- 98,110,000.00	- 12,520,000.00	- 4,599,000.00
-	990.00	10,620.00	75,320.00	- 161,400,000.00	- 12,520,000.00	- 4,244,000.00
-	990.00	10,620.00	75,320.00	- 161,400,000.00	- 12,520,000.00	- 4,244,000.00
-	15,200.00	4,249.00	78,780.00	- 117,000,000.00	- 115,500,000.00	- 29,550,000.00
-	15,200.00	- 4,249.00	71,860.00	- 79,260,000.00	- 114,500,000.00	- 29,550,000.00
-	15,200.00	4,249.00	78,780.00	- 117,000,000.00	- 115,500,000.00	- 29,550,000.00
-	15,200.00	10,620.00	70,960.00	- 148,300,000.00	- 115,000,000.00	- 29,200,000.00
-	15,200.00	10,620.00	75,320.00	- 161,400,000.00	- 115,000,000.00	- 29,200,000.00
-	15,200.00	10,620.00	75,320.00	- 161,400,000.00	- 115,000,000.00	- 29,200,000.00
-	15,200.00	6,370.00	71,860.00	- 142,500,000.00	- 114,500,000.00	- 29,200,000.00
-	15,200.00	14,870.00	78,780.00	- 180,200,000.00	- 115,500,000.00	- 29,200,000.00
-	15,200.00	6,370.00	71,860.00	- 142,500,000.00	- 114,500,000.00	- 29,200,000.00
-	15,200.00	14,870.00	78,780.00	- 180,200,000.00	- 115,500,000.00	- 29,200,000.00
0.00	0.06	75,100.00	- 76,780,000.00	- 3,218,000.00	35.50	
0.00	4,249.00	78,560.00	- 95,630,000.00	- 3,741,000.00	40.46	
0.00	10,620.00	75,100.00	- 140,100,000.00	- 3,218,000.00	354,700.00	
-	14,210.00	0.03	70,750.00	- 63,730,000.00	- 105,700,000.00	- 24,950,000.00
-	14,210.00	0.04	75,100.00	- 76,780,000.00	- 105,700,000.00	- 24,950,000.00
-	14,210.00	- 4,249.00	67,290.00	- 44,880,000.00	- 105,200,000.00	- 24,950,000.00



<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 49 di 215

Reazioni vincolari - STR A1											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	14,210.00		4,249.00		74,200.00	-	82,580,000.00	-	106,200,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		71,650.00	-	57,930,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		78,560.00	-	95,630,000.00	-	106,200,000.00	-	24,950,000.00
-	14,210.00		10,620.00		70,750.00	-	127,000,000.00	-	105,700,000.00	-	24,600,000.00
-	14,210.00		10,620.00		70,750.00	-	127,000,000.00	-	105,700,000.00	-	24,600,000.00
-	14,210.00		10,620.00		75,100.00	-	140,100,000.00	-	105,700,000.00	-	24,600,000.00
-	14,210.00		10,620.00		75,100.00	-	140,100,000.00	-	105,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00		67,290.00	-	108,200,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		74,200.00	-	145,900,000.00	-	106,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		71,650.00	-	121,200,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		78,560.00	-	158,900,000.00	-	106,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		71,650.00	-	121,200,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		78,560.00	-	158,900,000.00	-	106,200,000.00	-	24,600,000.00
-	990.00	-	4,249.00		74,490.00	-	76,350,000.00	-	12,740,000.00	-	4,599,000.00
-	990.00		4,249.00		81,400.00	-	114,000,000.00	-	13,790,000.00	-	4,599,000.00
-	990.00		4,249.00		85,760.00	-	127,100,000.00	-	13,790,000.00	-	4,598,000.00
-	990.00	-	4,249.00		78,850.00	-	89,390,000.00	-	12,740,000.00	-	4,599,000.00
-	990.00		4,249.00		85,760.00	-	127,100,000.00	-	13,790,000.00	-	4,598,000.00
-	990.00		10,620.00		82,300.00	-	171,500,000.00	-	13,270,000.00	-	4,244,000.00
-	990.00		10,620.00		82,300.00	-	171,500,000.00	-	13,270,000.00	-	4,244,000.00
-	990.00		6,370.00		74,490.00	-	139,600,000.00	-	12,740,000.00	-	4,244,000.00
-	990.00		6,370.00		78,850.00	-	152,700,000.00	-	12,740,000.00	-	4,244,000.00
-	990.00		14,870.00		85,760.00	-	190,400,000.00	-	13,790,000.00	-	4,244,000.00
-	990.00		6,370.00		78,850.00	-	152,700,000.00	-	12,740,000.00	-	4,244,000.00
-	15,200.00		0.06		82,300.00	-	108,200,000.00	-	115,700,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00		78,850.00	-	89,390,000.00	-	115,200,000.00	-	29,550,000.00
-	15,200.00		4,249.00		85,760.00	-	127,100,000.00	-	116,300,000.00	-	29,550,000.00
-	15,200.00		10,620.00		77,950.00	-	158,500,000.00	-	115,700,000.00	-	29,200,000.00
-	15,200.00		10,620.00		82,300.00	-	171,500,000.00	-	115,700,000.00	-	29,200,000.00
-	15,200.00		10,620.00		82,300.00	-	171,500,000.00	-	115,700,000.00	-	29,200,000.00
-	15,200.00		6,370.00		74,490.00	-	139,600,000.00	-	115,200,000.00	-	29,200,000.00
-	15,200.00		14,870.00		81,400.00	-	177,300,000.00	-	116,300,000.00	-	29,200,000.00
-	15,200.00		14,870.00		81,400.00	-	177,300,000.00	-	116,300,000.00	-	29,200,000.00
-	15,200.00		6,370.00		78,850.00	-	152,700,000.00	-	115,200,000.00	-	29,200,000.00
-	15,200.00		14,870.00		85,760.00	-	190,400,000.00	-	116,300,000.00	-	29,200,000.00
-	15,200.00		6,370.00		78,850.00	-	152,700,000.00	-	115,200,000.00	-	29,200,000.00
-	15,200.00		14,870.00		85,760.00	-	190,400,000.00	-	116,300,000.00	-	29,200,000.00
0.00		-	7,292.00		57,880.00		2,625,000.00	-	2,999,000.00	-	354,600.00
-	14,210.00		0.02		54,420.00	-	49,020,000.00	-	105,000,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		50,960.00	-	30,180,000.00	-	104,400,000.00	-	24,950,000.00
-	14,210.00		4,249.00		57,880.00	-	67,870,000.00	-	105,500,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		54,420.00		21,470,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00		54,420.00		21,470,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		50,960.00		40,320,000.00	-	104,400,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		57,880.00		2,625,000.00	-	105,500,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		50,960.00		40,320,000.00	-	104,400,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		57,880.00		2,625,000.00	-	105,500,000.00	-	25,310,000.00
-	990.00	-	11,540.00		61,620.00	-	9,992,000.00	-	12,520,000.00	-	4,953,000.00
-	990.00	-	15,790.00		58,160.00		8,856,000.00	-	12,000,000.00	-	4,953,000.00
-	15,200.00		0.04		61,620.00	-	80,490,000.00	-	115,000,000.00	-	29,550,000.00
-	15,200.00	-	11,540.00		61,620.00	-	9,991,000.00	-	115,000,000.00	-	29,910,000.00
-	15,200.00	-	11,540.00		61,620.00	-	9,991,000.00	-	115,000,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00		58,160.00		8,856,000.00	-	114,500,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		65,080.00	-	28,840,000.00	-	115,500,000.00	-	29,910,000.00
0.00		-	7,292.00		64,860.00	-	7,507,000.00	-	3,741,000.00	-	354,600.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17    Lotto 10    Codifica Documento EI2CLOC000006    Rev. A    Foglio 50 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
	0.00	-	15,790.00		57,950.00	30,190,000.00	-	2,694,000.00	-	354,600.00
-	14,210.00		0.03		61,400.00	- 59,160,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00		64,860.00	- 78,000,000.00	-	106,200,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		61,400.00	11,340,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		64,860.00	- 7,507,000.00	-	106,200,000.00	-	25,310,000.00
-	990.00	-	11,540.00		68,600.00	- 20,120,000.00	-	13,270,000.00	-	4,953,000.00
-	990.00	-	15,790.00		65,150.00	- 1,275,000.00	-	12,740,000.00	-	4,953,000.00
-	990.00	-	15,790.00		65,150.00	- 1,275,000.00	-	12,740,000.00	-	4,953,000.00
-	990.00	-	7,292.00		72,060.00	- 38,970,000.00	-	13,790,000.00	-	4,953,000.00
-	15,200.00		0.05		68,600.00	- 90,620,000.00	-	115,700,000.00	-	29,550,000.00
-	15,200.00		0.05		68,600.00	- 90,620,000.00	-	115,700,000.00	-	29,550,000.00
-	15,200.00	-	11,540.00		68,600.00	- 20,120,000.00	-	115,700,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		72,060.00	- 38,970,000.00	-	116,300,000.00	-	29,910,000.00
	0.00	-	4,249.00		60,310.00	- 34,750,000.00	-	1,952,000.00		19.58
	0.00		4,249.00		67,220.00	- 72,450,000.00	-	2,999,000.00		29.78
-	14,210.00	-	15,790.00		60,310.00	35,740,000.00	-	104,400,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		60,310.00	35,740,000.00	-	104,400,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		67,220.00	- 1,951,000.00	-	105,500,000.00	-	25,310,000.00
-	990.00	-	15,790.00		67,510.00	4,281,000.00	-	12,000,000.00	-	4,953,000.00
-	990.00	-	7,292.00		74,420.00	- 33,420,000.00	-	13,050,000.00	-	4,953,000.00
-	15,200.00		0.05		70,960.00	- 85,060,000.00	-	115,000,000.00	-	29,550,000.00
-	15,200.00		0.05		70,960.00	- 85,060,000.00	-	115,000,000.00	-	29,550,000.00
-	15,200.00	-	11,540.00		70,960.00	- 14,570,000.00	-	115,000,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00		67,510.00	4,281,000.00	-	114,500,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		74,420.00	- 33,410,000.00	-	115,500,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		74,420.00	- 33,410,000.00	-	115,500,000.00	-	29,910,000.00
	0.00		4,249.00		74,200.00	- 82,580,000.00	-	3,741,000.00		34.44
-	14,210.00	-	15,790.00		67,290.00	25,610,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		67,290.00	25,610,000.00	-	105,200,000.00	-	25,310,000.00
-	990.00		0.07		77,950.00	- 95,200,000.00	-	13,270,000.00	-	4,599,000.00
-	990.00	-	7,292.00		81,400.00	- 43,550,000.00	-	13,790,000.00	-	4,953,000.00
-	15,200.00		4,249.00		81,400.00	- 114,000,000.00	-	116,300,000.00	-	29,550,000.00
-	15,200.00	-	11,540.00		77,950.00	- 24,700,000.00	-	115,700,000.00	-	29,910,000.00
-	15,200.00	-	11,540.00		77,950.00	- 24,700,000.00	-	115,700,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		81,400.00	- 43,550,000.00	-	116,300,000.00	-	29,910,000.00
	0.00		4,249.00		57,880.00	- 67,870,000.00	-	2,999,000.00		27.52
	0.00	-	7,292.00		57,880.00	2,625,000.00	-	2,999,000.00	-	354,600.00
-	14,210.00	-	4,249.00		50,960.00	- 30,180,000.00	-	104,400,000.00	-	24,950,000.00
-	14,210.00		4,249.00		57,880.00	- 67,870,000.00	-	105,500,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		54,420.00	21,470,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		50,960.00	40,320,000.00	-	104,400,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		57,880.00	2,625,000.00	-	105,500,000.00	-	25,310,000.00
-	990.00	-	11,540.00		61,620.00	- 9,992,000.00	-	12,520,000.00	-	4,953,000.00
-	990.00	-	15,790.00		58,160.00	8,856,000.00	-	12,000,000.00	-	4,953,000.00
-	990.00	-	15,790.00		58,160.00	8,856,000.00	-	12,000,000.00	-	4,953,000.00
-	990.00	-	7,292.00		65,080.00	- 28,840,000.00	-	13,050,000.00	-	4,953,000.00
-	15,200.00	-	11,540.00		61,620.00	- 9,991,000.00	-	115,000,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00		58,160.00	8,856,000.00	-	114,500,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		65,080.00	- 28,840,000.00	-	115,500,000.00	-	29,910,000.00
	0.00	-	4,249.00		57,950.00	- 40,310,000.00	-	2,694,000.00		21.98
	0.00	-	15,790.00		57,950.00	30,190,000.00	-	2,694,000.00	-	354,600.00
	0.00	-	15,790.00		57,950.00	30,190,000.00	-	2,694,000.00	-	354,600.00
-	14,210.00	-	4,249.00		57,950.00	- 40,310,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		64,860.00	- 78,000,000.00	-	106,200,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		61,400.00	11,340,000.00	-	105,700,000.00	-	25,310,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17    Lotto 10    Codifica Documento EI2CLOC000006    Rev. A    Foglio 51 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,210.00	-	11,540.00		61,400.00	11,340,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		57,950.00	30,190,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		64,860.00	- 7,507,000.00	-	106,200,000.00	-	25,310,000.00
-	990.00	-	4,249.00		65,150.00	- 71,770,000.00	-	12,740,000.00	-	4,599,000.00
-	990.00	-	11,540.00		68,600.00	- 20,120,000.00	-	13,270,000.00	-	4,953,000.00
-	15,200.00	-	4,249.00		65,150.00	- 71,770,000.00	-	115,200,000.00	-	29,550,000.00
-	15,200.00		4,249.00		72,060.00	- 109,500,000.00	-	116,300,000.00	-	29,550,000.00
-	15,200.00	-	11,540.00		68,600.00	- 20,120,000.00	-	115,700,000.00	-	29,910,000.00
-	15,200.00	-	11,540.00		68,600.00	- 20,120,000.00	-	115,700,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00		65,150.00	- 1,275,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		72,060.00	- 38,970,000.00	-	116,300,000.00	-	29,910,000.00
	0.00		0.04		63,760.00	- 53,600,000.00	-	2,475,000.00		24.53
	0.00	-	11,540.00		63,760.00	16,900,000.00	-	2,475,000.00	-	354,600.00
	0.00	-	15,790.00		60,310.00	35,740,000.00	-	1,952,000.00	-	354,600.00
	0.00	-	7,292.00		67,220.00	- 1,951,000.00	-	2,999,000.00	-	354,600.00
-	14,210.00		0.03		63,760.00	- 53,600,000.00	-	105,000,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		60,310.00	- 34,750,000.00	-	104,400,000.00	-	24,950,000.00
-	14,210.00		4,249.00		67,220.00	- 72,450,000.00	-	105,500,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		60,310.00	- 34,750,000.00	-	104,400,000.00	-	24,950,000.00
-	14,210.00		4,249.00		67,220.00	- 72,450,000.00	-	105,500,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		63,760.00	16,900,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00		63,760.00	16,900,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		60,310.00	35,740,000.00	-	104,400,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		67,220.00	- 1,951,000.00	-	105,500,000.00	-	25,310,000.00
-	990.00		0.06		70,960.00	- 85,060,000.00	-	12,520,000.00	-	4,599,000.00
-	990.00	-	11,540.00		70,960.00	- 14,570,000.00	-	12,520,000.00	-	4,953,000.00
-	990.00	-	7,292.00		74,420.00	- 33,420,000.00	-	13,050,000.00	-	4,953,000.00
-	15,200.00	-	4,249.00		67,510.00	- 66,220,000.00	-	114,500,000.00	-	29,550,000.00
-	15,200.00	-	11,540.00		70,960.00	- 14,570,000.00	-	115,000,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00		67,510.00	4,281,000.00	-	114,500,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		74,420.00	- 33,410,000.00	-	115,500,000.00	-	29,910,000.00
	0.00	-	4,249.00		67,290.00	- 44,880,000.00	-	2,694,000.00		24.09
	0.00	-	11,540.00		70,750.00	6,765,000.00	-	3,218,000.00	-	354,600.00
	0.00	-	15,790.00		67,290.00	25,610,000.00	-	2,694,000.00	-	354,600.00
-	14,210.00	-	11,540.00		70,750.00	6,765,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00		70,750.00	6,765,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		74,200.00	- 12,080,000.00	-	106,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		67,290.00	25,610,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		74,200.00	- 12,080,000.00	-	106,200,000.00	-	25,310,000.00
-	990.00		0.07		77,950.00	- 95,200,000.00	-	13,270,000.00	-	4,599,000.00
-	990.00		4,249.00		81,400.00	- 114,000,000.00	-	13,790,000.00	-	4,599,000.00
-	990.00	-	11,540.00		77,950.00	- 24,700,000.00	-	13,270,000.00	-	4,953,000.00
-	990.00	-	15,790.00		74,490.00	- 5,851,000.00	-	12,740,000.00	-	4,953,000.00
-	15,200.00	-	4,249.00		74,490.00	- 76,350,000.00	-	115,200,000.00	-	29,550,000.00
-	15,200.00		4,249.00		81,400.00	- 114,000,000.00	-	116,300,000.00	-	29,550,000.00
-	15,200.00	-	11,540.00		77,950.00	- 24,700,000.00	-	115,700,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00		74,490.00	- 5,851,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		81,400.00	- 43,550,000.00	-	116,300,000.00	-	29,910,000.00
	0.00		0.04		54,420.00	- 49,020,000.00	-	2,475,000.00		22.71
	0.00	-	4,249.00		50,960.00	- 30,180,000.00	-	1,952,000.00		17.61
	0.00		4,249.00		62,230.00	- 80,920,000.00	-	2,999,000.00		33.69
	0.00	-	11,540.00		58,780.00	8,426,000.00	-	2,475,000.00	-	354,600.00
	0.00	-	15,790.00		55,320.00	27,270,000.00	-	1,952,000.00	-	354,600.00
	0.00	-	7,292.00		62,230.00	- 10,420,000.00	-	2,999,000.00	-	354,600.00
	0.00	-	15,790.00		55,320.00	27,270,000.00	-	1,952,000.00	-	354,600.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17    Lotto 10    Codifica Documento EI2CLOC000006    Rev. A    Foglio 52 di 215

Reazioni vincolari - STR A1											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	14,210.00		0.03		58,780.00	-	62,070,000.00	-	105,000,000.00	-	24,950,000.00
-	14,210.00		4,249.00		62,230.00	-	80,920,000.00	-	105,500,000.00	-	24,950,000.00
-	14,210.00		4,249.00		62,230.00	-	80,920,000.00	-	105,500,000.00	-	24,950,000.00
-	14,210.00		11,540.00		58,780.00		8,426,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00		11,540.00		58,780.00		8,426,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00		15,790.00		55,320.00		27,270,000.00	-	104,400,000.00	-	25,310,000.00
-	14,210.00		7,292.00		62,230.00	-	10,420,000.00	-	105,500,000.00	-	25,310,000.00
-	14,210.00		15,790.00		55,320.00		27,270,000.00	-	104,400,000.00	-	25,310,000.00
-	14,210.00		7,292.00		62,230.00	-	10,420,000.00	-	105,500,000.00	-	25,310,000.00
-	990.00		0.06		65,980.00	-	93,530,000.00	-	12,520,000.00	-	4,599,000.00
-	990.00		11,540.00		61,620.00	-	9,992,000.00	-	12,520,000.00	-	4,953,000.00
-	990.00		7,292.00		65,080.00	-	28,840,000.00	-	13,050,000.00	-	4,953,000.00
-	990.00		15,790.00		62,520.00	-	4,190,000.00	-	12,000,000.00	-	4,953,000.00
-	990.00		7,292.00		69,430.00	-	41,890,000.00	-	13,050,000.00	-	4,953,000.00
-	15,200.00		4,249.00		65,080.00	-	99,340,000.00	-	115,500,000.00	-	29,550,000.00
-	15,200.00		4,249.00		62,520.00	-	74,690,000.00	-	114,500,000.00	-	29,550,000.00
-	15,200.00		4,249.00		69,430.00	-	112,400,000.00	-	115,500,000.00	-	29,550,000.00
-	15,200.00		4,249.00		62,520.00	-	74,690,000.00	-	114,500,000.00	-	29,550,000.00
-	15,200.00		4,249.00		69,430.00	-	112,400,000.00	-	115,500,000.00	-	29,550,000.00
-	15,200.00		11,540.00		65,980.00	-	23,040,000.00	-	115,000,000.00	-	29,910,000.00
-	15,200.00		11,540.00		65,980.00	-	23,040,000.00	-	115,000,000.00	-	29,910,000.00
-	15,200.00		15,790.00		58,160.00		8,856,000.00	-	114,500,000.00	-	29,910,000.00
-	15,200.00		7,292.00		65,080.00	-	28,840,000.00	-	115,500,000.00	-	29,910,000.00
-	15,200.00		15,790.00		62,520.00	-	4,190,000.00	-	114,500,000.00	-	29,910,000.00
-	15,200.00		7,292.00		69,430.00	-	41,890,000.00	-	115,500,000.00	-	29,910,000.00
-	15,200.00		15,790.00		62,520.00	-	4,190,000.00	-	114,500,000.00	-	29,910,000.00
-	15,200.00		7,292.00		69,430.00	-	41,890,000.00	-	115,500,000.00	-	29,910,000.00
	0.00		0.05		65,760.00	-	72,200,000.00	-	3,218,000.00		33.25
	0.00		11,540.00		61,400.00		11,340,000.00	-	3,218,000.00	-	354,600.00
	0.00		7,292.00		64,860.00	-	7,507,000.00	-	3,741,000.00	-	354,600.00
	0.00		7,292.00		69,220.00	-	20,550,000.00	-	3,741,000.00	-	354,600.00
	0.00		15,790.00		62,300.00		17,140,000.00	-	2,694,000.00	-	354,600.00
	0.00		7,292.00		69,220.00	-	20,550,000.00	-	3,741,000.00	-	354,600.00
-	14,210.00		0.04		65,760.00	-	72,200,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00		62,300.00	-	53,350,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		69,220.00	-	91,050,000.00	-	106,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		69,220.00	-	91,050,000.00	-	106,200,000.00	-	24,950,000.00
-	14,210.00		11,540.00		65,760.00	-	1,705,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00		11,540.00		65,760.00	-	1,705,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00		15,790.00		57,950.00		30,190,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00		7,292.00		64,860.00	-	7,507,000.00	-	106,200,000.00	-	25,310,000.00
-	14,210.00		15,790.00		57,950.00		30,190,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00		15,790.00		62,300.00		17,140,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00		7,292.00		69,220.00	-	20,550,000.00	-	106,200,000.00	-	25,310,000.00
-	14,210.00		15,790.00		62,300.00		17,140,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00		7,292.00		69,220.00	-	20,550,000.00	-	106,200,000.00	-	25,310,000.00
-	990.00		4,249.00		69,500.00	-	84,820,000.00	-	12,740,000.00	-	4,599,000.00
-	990.00		4,249.00		76,420.00	-	122,500,000.00	-	13,790,000.00	-	4,598,000.00
-	990.00		11,540.00		72,960.00	-	33,170,000.00	-	13,270,000.00	-	4,953,000.00
-	990.00		11,540.00		72,960.00	-	33,170,000.00	-	13,270,000.00	-	4,953,000.00
-	990.00		15,790.00		69,500.00	-	14,320,000.00	-	12,740,000.00	-	4,953,000.00
-	15,200.00		0.06		72,960.00	-	103,700,000.00	-	115,700,000.00	-	29,550,000.00
-	15,200.00		0.06		72,960.00	-	103,700,000.00	-	115,700,000.00	-	29,550,000.00
-	15,200.00		4,249.00		76,420.00	-	122,500,000.00	-	116,300,000.00	-	29,550,000.00
-	15,200.00		4,249.00		69,500.00	-	84,820,000.00	-	115,200,000.00	-	29,550,000.00

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45

Progetto  
IN17Lotto  
10Codifica Documento  
EI2CLOC000006Rev.  
AFoglio  
53 di 215

## Reazioni vincolari - STR A1

Rx	N	Ry	N	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	15,200.00		4,249.00		76,420.00	-	122,500,000.00	-	116,300,000.00	-	29,550,000.00
-	15,200.00		11,540.00		72,960.00	-	33,170,000.00	-	115,700,000.00	-	29,910,000.00
-	15,200.00		11,540.00		72,960.00	-	33,170,000.00	-	115,700,000.00	-	29,910,000.00
-	15,200.00		15,790.00		65,150.00	-	1,275,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00		7,292.00		72,060.00	-	38,970,000.00	-	116,300,000.00	-	29,910,000.00
-	15,200.00		15,790.00		65,150.00	-	1,275,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00		15,790.00		69,500.00	-	14,320,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00		7,292.00		76,420.00	-	52,020,000.00	-	116,300,000.00	-	29,910,000.00
-	15,200.00		15,790.00		69,500.00	-	14,320,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00		7,292.00		76,420.00	-	52,020,000.00	-	116,300,000.00	-	29,910,000.00
	0.00		0.05		68,120.00	-	66,650,000.00	-	2,475,000.00		30.70
	0.00		4,249.00		60,310.00	-	34,750,000.00	-	1,952,000.00		19.72
	0.00		4,249.00		71,580.00	-	85,490,000.00	-	2,999,000.00		35.80
	0.00		4,249.00		71,580.00	-	85,490,000.00	-	2,999,000.00		35.95
	0.00		15,790.00		60,310.00		35,740,000.00	-	1,952,000.00	-	354,600.00
	0.00		7,292.00		67,220.00	-	1,951,000.00		2,999,000.00	-	354,600.00
	0.00		15,790.00		64,660.00		22,700,000.00	-	1,952,000.00	-	354,600.00
	0.00		7,292.00		71,580.00	-	15,000,000.00		2,999,000.00	-	354,600.00
-	14,210.00		0.03		63,760.00	-	53,600,000.00	-	105,000,000.00	-	24,950,000.00
-	14,210.00		0.03		63,760.00	-	53,600,000.00	-	105,000,000.00	-	24,950,000.00
-	14,210.00		0.03		68,120.00	-	66,650,000.00	-	105,000,000.00	-	24,950,000.00
-	14,210.00		4,249.00		67,220.00	-	72,450,000.00	-	105,500,000.00	-	24,950,000.00
-	14,210.00		4,249.00		64,660.00	-	47,800,000.00	-	104,400,000.00	-	24,950,000.00
-	14,210.00		11,540.00		63,760.00		16,900,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00		11,540.00		68,120.00		3,851,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00		11,540.00		68,120.00		3,851,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00		7,292.00		67,220.00	-	1,951,000.00	-	105,500,000.00	-	25,310,000.00
-	14,210.00		15,790.00		64,660.00		22,700,000.00	-	104,400,000.00	-	25,310,000.00
-	14,210.00		7,292.00		71,580.00	-	15,000,000.00	-	105,500,000.00	-	25,310,000.00
-	14,210.00		15,790.00		64,660.00		22,700,000.00	-	104,400,000.00	-	25,310,000.00
-	14,210.00		7,292.00		71,580.00	-	15,000,000.00	-	105,500,000.00	-	25,310,000.00
-	990.00		0.06		70,960.00	-	85,060,000.00	-	12,520,000.00	-	4,599,000.00
-	990.00		4,249.00		71,860.00	-	79,260,000.00	-	12,000,000.00	-	4,599,000.00
-	990.00		4,249.00		78,780.00	-	117,000,000.00	-	13,050,000.00	-	4,599,000.00
-	990.00		4,249.00		71,860.00	-	79,260,000.00	-	12,000,000.00	-	4,599,000.00
-	990.00		4,249.00		78,780.00	-	117,000,000.00	-	13,050,000.00	-	4,599,000.00
-	990.00		11,540.00		75,320.00	-	27,610,000.00	-	12,520,000.00	-	4,953,000.00
-	990.00		11,540.00		75,320.00	-	27,610,000.00	-	12,520,000.00	-	4,953,000.00
-	990.00		15,790.00		71,860.00	-	8,766,000.00	-	12,000,000.00	-	4,953,000.00
-	990.00		7,292.00		78,780.00	-	46,460,000.00	-	13,050,000.00	-	4,953,000.00
-	15,200.00		0.05		75,320.00	-	98,110,000.00	-	115,000,000.00	-	29,550,000.00
-	15,200.00		0.05		75,320.00	-	98,110,000.00	-	115,000,000.00	-	29,550,000.00
-	15,200.00		4,249.00		67,510.00	-	66,220,000.00	-	114,500,000.00	-	29,550,000.00
-	15,200.00		4,249.00		74,420.00	-	103,900,000.00	-	115,500,000.00	-	29,550,000.00
-	15,200.00		4,249.00		71,860.00	-	79,260,000.00	-	114,500,000.00	-	29,550,000.00
-	15,200.00		11,540.00		70,960.00	-	14,570,000.00	-	115,000,000.00	-	29,910,000.00
-	15,200.00		11,540.00		75,320.00	-	27,610,000.00	-	115,000,000.00	-	29,910,000.00
-	15,200.00		11,540.00		75,320.00	-	27,610,000.00	-	115,000,000.00	-	29,910,000.00
-	15,200.00		15,790.00		67,510.00		4,281,000.00	-	114,500,000.00	-	29,910,000.00
-	15,200.00		15,790.00		71,860.00	-	8,766,000.00	-	114,500,000.00	-	29,910,000.00
-	15,200.00		7,292.00		78,780.00	-	46,460,000.00	-	115,500,000.00	-	29,910,000.00
-	15,200.00		15,790.00		71,860.00	-	8,766,000.00	-	114,500,000.00	-	29,910,000.00
-	15,200.00		7,292.00		78,780.00	-	46,460,000.00	-	115,500,000.00	-	29,910,000.00
	0.00		0.05		70,750.00	-	63,730,000.00	-	3,218,000.00		29.48
	0.00		0.06		75,100.00	-	76,780,000.00	-	3,218,000.00		35.36

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 54 di 215

Reazioni vincolari - STR A1											
<b>Rx</b> N	<b>Ry</b> N	<b>N</b> N	<b>Mx</b> Nmm	<b>My</b> Nmm	<b>Mz</b> Nmm						
0.00	-	4,249.00	71,650.00	-	57,930,000.00	-	2,694,000.00	30.26			
0.00	-	11,540.00	75,100.00	-	6,281,000.00	-	3,218,000.00	-	354,600.00		
0.00	-	15,790.00	67,290.00	-	25,610,000.00	-	2,694,000.00	-	354,600.00		
0.00	-	7,292.00	74,200.00	-	12,080,000.00	-	3,741,000.00	-	354,600.00		
0.00	-	15,790.00	71,650.00	-	12,570,000.00	-	2,694,000.00	-	354,600.00		
0.00	-	7,292.00	78,560.00	-	25,130,000.00	-	3,741,000.00	-	354,600.00		
0.00	-	15,790.00	71,650.00	-	12,570,000.00	-	2,694,000.00	-	354,600.00		
0.00	-	7,292.00	78,560.00	-	25,130,000.00	-	3,741,000.00	-	354,600.00		
-	14,210.00	0.04	75,100.00	-	76,780,000.00	-	105,700,000.00	-	24,950,000.00		
-	14,210.00	-	4,249.00	-	71,650.00	-	57,930,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00	-	78,560.00	-	95,630,000.00	-	106,200,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00	-	70,750.00	-	6,765,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00	-	75,100.00	-	6,281,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00	-	75,100.00	-	6,281,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	-	74,200.00	-	12,080,000.00	-	106,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	-	71,650.00	-	12,570,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	-	78,560.00	-	25,130,000.00	-	106,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	-	71,650.00	-	12,570,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	-	78,560.00	-	25,130,000.00	-	106,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	-	78,560.00	-	25,130,000.00	-	106,200,000.00	-	25,310,000.00
-	990.00	0.08	82,300.00	-	108,200,000.00	-	13,270,000.00	-	4,599,000.00		
-	990.00	0.08	82,300.00	-	108,200,000.00	-	13,270,000.00	-	4,599,000.00		
-	990.00	-	4,249.00	-	74,490.00	-	76,350,000.00	-	12,740,000.00	-	4,599,000.00
-	990.00	-	4,249.00	-	78,850.00	-	89,390,000.00	-	12,740,000.00	-	4,599,000.00
-	990.00	-	11,540.00	-	82,300.00	-	37,750,000.00	-	13,270,000.00	-	4,953,000.00
-	990.00	-	11,540.00	-	82,300.00	-	37,750,000.00	-	13,270,000.00	-	4,953,000.00
-	990.00	-	7,292.00	-	81,400.00	-	43,550,000.00	-	13,790,000.00	-	4,953,000.00
-	990.00	-	15,790.00	-	74,490.00	-	5,851,000.00	-	12,740,000.00	-	4,953,000.00
-	990.00	-	15,790.00	-	78,850.00	-	18,900,000.00	-	12,740,000.00	-	4,953,000.00
-	990.00	-	7,292.00	-	85,760.00	-	56,590,000.00	-	13,790,000.00	-	4,953,000.00
-	15,200.00	0.06	82,300.00	-	108,200,000.00	-	115,700,000.00	-	29,550,000.00		
-	15,200.00	-	4,249.00	-	74,490.00	-	76,350,000.00	-	115,200,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00	-	81,400.00	-	114,000,000.00	-	116,300,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00	-	85,760.00	-	127,100,000.00	-	116,300,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00	-	78,850.00	-	89,390,000.00	-	115,200,000.00	-	29,550,000.00
-	15,200.00	-	11,540.00	-	82,300.00	-	37,750,000.00	-	115,700,000.00	-	29,910,000.00
-	15,200.00	-	11,540.00	-	82,300.00	-	37,750,000.00	-	115,700,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00	-	74,490.00	-	5,851,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00	-	74,490.00	-	5,851,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00	-	81,400.00	-	43,550,000.00	-	116,300,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00	-	78,850.00	-	18,900,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00	-	85,760.00	-	56,590,000.00	-	116,300,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00	-	78,850.00	-	18,900,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00	-	85,760.00	-	56,590,000.00	-	116,300,000.00	-	29,910,000.00
-	23,680.00	-	4,249.00	-	50,960.00	-	30,180,000.00	-	172,700,000.00	-	41,590,000.00
-	23,680.00	-	10,620.00	-	54,420.00	-	112,300,000.00	-	173,300,000.00	-	41,240,000.00
-	23,680.00	-	6,370.00	-	50,960.00	-	93,460,000.00	-	172,700,000.00	-	41,240,000.00
-	23,680.00	-	6,370.00	-	50,960.00	-	93,460,000.00	-	172,700,000.00	-	41,240,000.00
-	693.00	0.05	59,460.00	-	71,050,000.00	-	9,508,000.00	-	3,219,000.00		
-	693.00	-	6,370.00	-	56,000.00	-	115,500,000.00	-	8,985,000.00	-	2,864,000.00
-	693.00	-	6,370.00	-	56,000.00	-	115,500,000.00	-	8,985,000.00	-	2,864,000.00
-	693.00	-	14,870.00	-	62,920.00	-	153,200,000.00	-	10,030,000.00	-	2,864,000.00
-	24,370.00	-	4,249.00	-	56,000.00	-	52,200,000.00	-	179,800,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00	-	62,920.00	-	89,900,000.00	-	180,800,000.00	-	44,810,000.00
-	24,370.00	-	10,620.00	-	59,460.00	-	134,300,000.00	-	180,300,000.00	-	44,450,000.00
-	24,370.00	-	14,870.00	-	62,920.00	-	153,200,000.00	-	180,800,000.00	-	44,450,000.00

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>	<b>Progetto</b> IN17	<b>Lotto</b> 10	<b>Codifica Documento</b> EI2CLOC000006	<b>Rev.</b> A	<b>Foglio</b> 55 di 215

Reazioni vincolari - STR A1										
<b>Rx</b>	<b>N</b>	<b>Ry</b>	<b>N</b>	<b>N</b>	<b>Mx</b>	<b>Nmm</b>	<b>My</b>	<b>Nmm</b>	<b>Mz</b>	<b>Nmm</b>
-	693.00		4,249.00		69,900.00	- 100,000,000.00	-	10,770,000.00	-	3,219,000.00
-	693.00		6,370.00		62,990.00	- 125,600,000.00	-	9,727,000.00	-	2,864,000.00
-	693.00		14,870.00		69,900.00	- 163,300,000.00	-	10,770,000.00	-	2,864,000.00
-	693.00		14,870.00		69,900.00	- 163,300,000.00	-	10,770,000.00	-	2,864,000.00
-	24,370.00		4,249.00		69,900.00	- 100,000,000.00	-	181,600,000.00	-	44,810,000.00
-	24,370.00		4,249.00		69,900.00	- 100,000,000.00	-	181,600,000.00	-	44,810,000.00
-	24,370.00		6,370.00		62,990.00	- 125,600,000.00	-	180,500,000.00	-	44,450,000.00
-	24,370.00		14,870.00		69,900.00	- 163,300,000.00	-	181,600,000.00	-	44,450,000.00
-	23,680.00	-	4,249.00		60,310.00	- 34,750,000.00	-	172,700,000.00	-	41,590,000.00
-	23,680.00		10,620.00		63,760.00	- 116,900,000.00	-	173,300,000.00	-	41,240,000.00
-	23,680.00		14,870.00		67,220.00	- 135,700,000.00	-	173,800,000.00	-	41,240,000.00
-	693.00		0.05		68,800.00	- 75,620,000.00	-	9,508,000.00	-	3,219,000.00
-	693.00		14,870.00		72,260.00	- 157,800,000.00	-	10,030,000.00	-	2,864,000.00
-	24,370.00		0.03		68,800.00	- 75,620,000.00	-	180,300,000.00	-	44,810,000.00
-	24,370.00		14,870.00		72,260.00	- 157,800,000.00	-	180,800,000.00	-	44,450,000.00
-	24,370.00		6,370.00		65,350.00	- 120,100,000.00	-	179,800,000.00	-	44,450,000.00
-	23,680.00		10,620.00		70,750.00	- 127,000,000.00	-	174,000,000.00	-	41,240,000.00
-	23,680.00		6,370.00		67,290.00	- 108,200,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		6,370.00		67,290.00	- 108,200,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		14,870.00		74,200.00	- 145,900,000.00	-	174,500,000.00	-	41,240,000.00
-	693.00	-	4,249.00		72,330.00	- 66,910,000.00	-	9,727,000.00	-	3,219,000.00
-	693.00		10,620.00		75,790.00	- 149,000,000.00	-	10,250,000.00	-	2,864,000.00
-	24,370.00		0.04		75,790.00	- 85,760,000.00	-	181,000,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		72,330.00	- 66,910,000.00	-	180,500,000.00	-	44,810,000.00
-	24,370.00		4,249.00		79,240.00	- 104,600,000.00	-	181,600,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		72,330.00	- 66,910,000.00	-	180,500,000.00	-	44,810,000.00
-	24,370.00		10,620.00		75,790.00	- 149,000,000.00	-	181,000,000.00	-	44,450,000.00
-	24,370.00		10,620.00		75,790.00	- 149,000,000.00	-	181,000,000.00	-	44,450,000.00
-	24,370.00		6,370.00		72,330.00	- 130,200,000.00	-	180,500,000.00	-	44,450,000.00
-	24,370.00		14,870.00		79,240.00	- 167,900,000.00	-	181,600,000.00	-	44,450,000.00
-	23,680.00		4,249.00		57,880.00	- 67,870,000.00	-	173,800,000.00	-	41,590,000.00
-	23,680.00		10,620.00		54,420.00	- 112,300,000.00	-	173,300,000.00	-	41,240,000.00
-	23,680.00		6,370.00		50,960.00	- 93,460,000.00	-	172,700,000.00	-	41,240,000.00
-	23,680.00		14,870.00		57,880.00	- 131,200,000.00	-	173,800,000.00	-	41,240,000.00
-	693.00	-	4,249.00		56,000.00	- 52,200,000.00	-	8,985,000.00	-	3,219,000.00
-	693.00		4,249.00		62,920.00	- 89,900,000.00	-	10,030,000.00	-	3,219,000.00
-	693.00		10,620.00		59,460.00	- 134,300,000.00	-	9,508,000.00	-	2,864,000.00
-	693.00		6,370.00		56,000.00	- 115,500,000.00	-	8,985,000.00	-	2,864,000.00
-	693.00		14,870.00		62,920.00	- 153,200,000.00	-	10,030,000.00	-	2,864,000.00
-	24,370.00		10,620.00		59,460.00	- 134,300,000.00	-	180,300,000.00	-	44,450,000.00
-	24,370.00		14,870.00		62,920.00	- 153,200,000.00	-	180,800,000.00	-	44,450,000.00
-	24,370.00		6,370.00		56,000.00	- 115,500,000.00	-	179,800,000.00	-	44,450,000.00
-	24,370.00		14,870.00		62,920.00	- 153,200,000.00	-	180,800,000.00	-	44,450,000.00
-	23,680.00		10,620.00		61,400.00	- 122,400,000.00	-	174,000,000.00	-	41,240,000.00
-	23,680.00		10,620.00		61,400.00	- 122,400,000.00	-	174,000,000.00	-	41,240,000.00
-	23,680.00		6,370.00		57,950.00	- 103,600,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		14,870.00		64,860.00	- 141,300,000.00	-	174,500,000.00	-	41,240,000.00
-	23,680.00		6,370.00		57,950.00	- 103,600,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		14,870.00		64,860.00	- 141,300,000.00	-	174,500,000.00	-	41,240,000.00
-	693.00	-	4,249.00		62,990.00	- 62,330,000.00	-	9,727,000.00	-	3,219,000.00
-	693.00	-	4,249.00		62,990.00	- 62,330,000.00	-	9,727,000.00	-	3,219,000.00
-	693.00		10,620.00		66,440.00	- 144,500,000.00	-	10,250,000.00	-	2,864,000.00
-	693.00		6,370.00		62,990.00	- 125,600,000.00	-	9,727,000.00	-	2,864,000.00
-	693.00		14,870.00		69,900.00	- 163,300,000.00	-	10,770,000.00	-	2,864,000.00
-	24,370.00		0.03		66,440.00	- 81,180,000.00	-	181,000,000.00	-	44,810,000.00

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17    Lotto 10    Codifica Documento EI2CLOC000006    Rev. A    Foglio 56 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	24,370.00	-	4,249.00	62,990.00	-	62,330,000.00	-	180,500,000.00	-	44,810,000.00
-	24,370.00		10,620.00	66,440.00	-	144,500,000.00	-	181,000,000.00	-	44,450,000.00
-	24,370.00		6,370.00	62,990.00	-	125,600,000.00	-	180,500,000.00	-	44,450,000.00
-	24,370.00		14,870.00	69,900.00	-	163,300,000.00	-	181,600,000.00	-	44,450,000.00
-	24,370.00		6,370.00	62,990.00	-	125,600,000.00	-	180,500,000.00	-	44,450,000.00
-	24,370.00		14,870.00	69,900.00	-	163,300,000.00	-	181,600,000.00	-	44,450,000.00
-	23,680.00	-	4,249.00	60,310.00	-	34,750,000.00	-	172,700,000.00	-	41,590,000.00
-	23,680.00		4,249.00	67,220.00	-	72,450,000.00	-	173,800,000.00	-	41,590,000.00
-	23,680.00		10,620.00	63,760.00	-	116,900,000.00	-	173,300,000.00	-	41,240,000.00
-	23,680.00		10,620.00	63,760.00	-	116,900,000.00	-	173,300,000.00	-	41,240,000.00
-	23,680.00		6,370.00	60,310.00	-	98,030,000.00	-	172,700,000.00	-	41,240,000.00
-	23,680.00		14,870.00	67,220.00	-	135,700,000.00	-	173,800,000.00	-	41,240,000.00
-	693.00		0.05	68,800.00	-	75,620,000.00	-	9,508,000.00	-	3,219,000.00
-	693.00		0.05	68,800.00	-	75,620,000.00	-	9,508,000.00	-	3,219,000.00
-	693.00	-	4,249.00	65,350.00	-	56,780,000.00	-	8,985,000.00	-	3,219,000.00
-	693.00		4,249.00	72,260.00	-	94,470,000.00	-	10,030,000.00	-	3,219,000.00
-	693.00	-	4,249.00	65,350.00	-	56,780,000.00	-	8,985,000.00	-	3,219,000.00
-	693.00		4,249.00	72,260.00	-	94,470,000.00	-	10,030,000.00	-	3,219,000.00
-	693.00		10,620.00	68,800.00	-	138,900,000.00	-	9,508,000.00	-	2,864,000.00
-	693.00		6,370.00	65,350.00	-	120,100,000.00	-	8,985,000.00	-	2,864,000.00
-	693.00		6,370.00	65,350.00	-	120,100,000.00	-	8,985,000.00	-	2,864,000.00
-	693.00		14,870.00	72,260.00	-	157,800,000.00	-	10,030,000.00	-	2,864,000.00
-	24,370.00		0.03	68,800.00	-	75,620,000.00	-	180,300,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00	65,350.00	-	56,780,000.00	-	179,800,000.00	-	44,810,000.00
-	24,370.00		4,249.00	72,260.00	-	94,470,000.00	-	180,800,000.00	-	44,810,000.00
-	24,370.00		10,620.00	68,800.00	-	138,900,000.00	-	180,300,000.00	-	44,450,000.00
-	24,370.00		6,370.00	65,350.00	-	120,100,000.00	-	179,800,000.00	-	44,450,000.00
-	24,370.00		14,870.00	72,260.00	-	157,800,000.00	-	180,800,000.00	-	44,450,000.00
-	23,680.00		0.02	70,750.00	-	63,730,000.00	-	174,000,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00	67,290.00	-	44,880,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00		4,249.00	74,200.00	-	82,580,000.00	-	174,500,000.00	-	41,590,000.00
-	23,680.00		10,620.00	70,750.00	-	127,000,000.00	-	174,000,000.00	-	41,240,000.00
-	23,680.00		6,370.00	67,290.00	-	108,200,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		14,870.00	74,200.00	-	145,900,000.00	-	174,500,000.00	-	41,240,000.00
-	693.00	-	4,249.00	72,330.00	-	66,910,000.00	-	9,727,000.00	-	3,219,000.00
-	693.00		4,249.00	79,240.00	-	104,600,000.00	-	10,770,000.00	-	3,219,000.00
-	693.00		10,620.00	75,790.00	-	149,000,000.00	-	10,250,000.00	-	2,864,000.00
-	693.00		10,620.00	75,790.00	-	149,000,000.00	-	10,250,000.00	-	2,864,000.00
-	693.00		6,370.00	72,330.00	-	130,200,000.00	-	9,727,000.00	-	2,864,000.00
-	693.00		14,870.00	79,240.00	-	167,900,000.00	-	10,770,000.00	-	2,864,000.00
-	24,370.00		0.04	75,790.00	-	85,760,000.00	-	181,000,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00	72,330.00	-	66,910,000.00	-	180,500,000.00	-	44,810,000.00
-	24,370.00		10,620.00	75,790.00	-	149,000,000.00	-	181,000,000.00	-	44,450,000.00
-	24,370.00		6,370.00	72,330.00	-	130,200,000.00	-	180,500,000.00	-	44,450,000.00
-	24,370.00		14,870.00	79,240.00	-	167,900,000.00	-	181,600,000.00	-	44,450,000.00
-	23,680.00		0.02	58,780.00	-	62,070,000.00	-	173,300,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00	55,320.00	-	43,220,000.00	-	172,700,000.00	-	41,590,000.00
-	23,680.00		4,249.00	62,230.00	-	80,920,000.00	-	173,800,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00	55,320.00	-	43,220,000.00	-	172,700,000.00	-	41,590,000.00
-	23,680.00		10,620.00	54,420.00	-	112,300,000.00	-	173,300,000.00	-	41,240,000.00
-	23,680.00		10,620.00	58,780.00	-	125,400,000.00	-	173,300,000.00	-	41,240,000.00
-	23,680.00		10,620.00	58,780.00	-	125,400,000.00	-	173,300,000.00	-	41,240,000.00
-	23,680.00		14,870.00	57,880.00	-	131,200,000.00	-	173,800,000.00	-	41,240,000.00
-	23,680.00		14,870.00	57,880.00	-	131,200,000.00	-	173,800,000.00	-	41,240,000.00
-	23,680.00		6,370.00	55,320.00	-	106,500,000.00	-	172,700,000.00	-	41,240,000.00



<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 57 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	23,680.00		14,870.00		62,230.00	- 144,200,000.00	-	173,800,000.00	-	41,240,000.00
-	23,680.00		6,370.00		55,320.00	- 106,500,000.00	-	172,700,000.00	-	41,240,000.00
-	23,680.00		14,870.00		62,230.00	- 144,200,000.00	-	173,800,000.00	-	41,240,000.00
-	693.00		0.05		59,460.00	- 71,050,000.00	-	9,508,000.00	-	3,219,000.00
-	693.00		0.06		63,820.00	- 84,100,000.00	-	9,508,000.00	-	3,219,000.00
-	693.00		0.06		63,820.00	- 84,100,000.00	-	9,508,000.00	-	3,219,000.00
-	693.00	-	4,249.00		60,360.00	- 65,250,000.00	-	8,985,000.00	-	3,219,000.00
-	693.00		10,620.00		59,460.00	- 134,300,000.00	-	9,508,000.00	-	2,864,000.00
-	693.00		10,620.00		59,460.00	- 134,300,000.00	-	9,508,000.00	-	2,864,000.00
-	693.00		10,620.00		63,820.00	- 147,400,000.00	-	9,508,000.00	-	2,864,000.00
-	693.00		10,620.00		63,820.00	- 147,400,000.00	-	9,508,000.00	-	2,864,000.00
-	693.00		14,870.00		62,920.00	- 153,200,000.00	-	10,030,000.00	-	2,864,000.00
-	693.00		6,370.00		60,360.00	- 128,500,000.00	-	8,985,000.00	-	2,864,000.00
-	693.00		14,870.00		67,270.00	- 166,200,000.00	-	10,030,000.00	-	2,864,000.00
-	693.00		6,370.00		60,360.00	- 128,500,000.00	-	8,985,000.00	-	2,864,000.00
-	693.00		14,870.00		67,270.00	- 166,200,000.00	-	10,030,000.00	-	2,864,000.00
-	24,370.00		0.04		63,820.00	- 84,100,000.00	-	180,300,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		60,360.00	- 65,250,000.00	-	179,800,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		60,360.00	- 65,250,000.00	-	179,800,000.00	-	44,810,000.00
-	24,370.00		4,249.00		67,270.00	- 102,900,000.00	-	180,800,000.00	-	44,810,000.00
-	24,370.00		10,620.00		59,460.00	- 134,300,000.00	-	180,300,000.00	-	44,450,000.00
-	24,370.00		10,620.00		63,820.00	- 147,400,000.00	-	180,300,000.00	-	44,450,000.00
-	24,370.00		10,620.00		63,820.00	- 147,400,000.00	-	180,300,000.00	-	44,450,000.00
-	24,370.00		6,370.00		56,000.00	- 115,500,000.00	-	179,800,000.00	-	44,450,000.00
-	24,370.00		6,370.00		56,000.00	- 115,500,000.00	-	179,800,000.00	-	44,450,000.00
-	24,370.00		6,370.00		60,360.00	- 128,500,000.00	-	179,800,000.00	-	44,450,000.00
-	24,370.00		14,870.00		67,270.00	- 166,200,000.00	-	180,800,000.00	-	44,450,000.00
-	24,370.00		6,370.00		60,360.00	- 128,500,000.00	-	179,800,000.00	-	44,450,000.00
-	24,370.00		14,870.00		67,270.00	- 166,200,000.00	-	180,800,000.00	-	44,450,000.00
-	23,680.00		0.03		65,760.00	- 72,200,000.00	-	174,000,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		62,300.00	- 53,350,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		62,300.00	- 53,350,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00		4,249.00		69,220.00	- 91,050,000.00	-	174,500,000.00	-	41,590,000.00
-	23,680.00		10,620.00		61,400.00	- 122,400,000.00	-	174,000,000.00	-	41,240,000.00
-	23,680.00		10,620.00		65,760.00	- 135,500,000.00	-	174,000,000.00	-	41,240,000.00
-	23,680.00		10,620.00		65,760.00	- 135,500,000.00	-	174,000,000.00	-	41,240,000.00
-	23,680.00		6,370.00		57,950.00	- 103,600,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		14,870.00		64,860.00	- 141,300,000.00	-	174,500,000.00	-	41,240,000.00
-	23,680.00		6,370.00		62,300.00	- 116,600,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		14,870.00		69,220.00	- 154,300,000.00	-	174,500,000.00	-	41,240,000.00
-	23,680.00		6,370.00		62,300.00	- 116,600,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		14,870.00		69,220.00	- 154,300,000.00	-	174,500,000.00	-	41,240,000.00
-	693.00		0.07		70,800.00	- 94,230,000.00	-	10,250,000.00	-	3,219,000.00
-	693.00	-	4,249.00		62,990.00	- 62,330,000.00	-	9,727,000.00	-	3,219,000.00
-	693.00	-	4,249.00		67,340.00	- 75,380,000.00	-	9,727,000.00	-	3,219,000.00
-	693.00		4,249.00		74,260.00	- 113,100,000.00	-	10,770,000.00	-	3,219,000.00
-	693.00		10,620.00		66,440.00	- 144,500,000.00	-	10,250,000.00	-	2,864,000.00
-	693.00		10,620.00		66,440.00	- 144,500,000.00	-	10,250,000.00	-	2,864,000.00
-	693.00		10,620.00		70,800.00	- 157,500,000.00	-	10,250,000.00	-	2,864,000.00
-	693.00		10,620.00		70,800.00	- 157,500,000.00	-	10,250,000.00	-	2,864,000.00
-	693.00		6,370.00		62,990.00	- 125,600,000.00	-	9,727,000.00	-	2,864,000.00
-	693.00		6,370.00		67,340.00	- 138,700,000.00	-	9,727,000.00	-	2,864,000.00
-	693.00		14,870.00		74,260.00	- 176,400,000.00	-	10,770,000.00	-	2,864,000.00
-	693.00		6,370.00		67,340.00	- 138,700,000.00	-	9,727,000.00	-	2,864,000.00
-	693.00		14,870.00		74,260.00	- 176,400,000.00	-	10,770,000.00	-	2,864,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 58 di 215

<b>Reazioni vincolari - STR A1</b>							
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>		
-	24,370.00	0.04	70,800.00	- 94,230,000.00	- 181,000,000.00	- 44,810,000.00	
-	24,370.00	0.04	70,800.00	- 94,230,000.00	- 181,000,000.00	- 44,810,000.00	
-	24,370.00	- 4,249.00	67,340.00	- 75,380,000.00	- 180,500,000.00	- 44,810,000.00	
-	24,370.00	4,249.00	74,260.00	- 113,100,000.00	- 181,600,000.00	- 44,810,000.00	
-	24,370.00	- 4,249.00	67,340.00	- 75,380,000.00	- 180,500,000.00	- 44,810,000.00	
-	24,370.00	4,249.00	74,260.00	- 113,100,000.00	- 181,600,000.00	- 44,810,000.00	
-	24,370.00	10,620.00	66,440.00	- 144,500,000.00	- 181,000,000.00	- 44,450,000.00	
-	24,370.00	10,620.00	66,440.00	- 144,500,000.00	- 181,000,000.00	- 44,450,000.00	
-	24,370.00	10,620.00	70,800.00	- 157,500,000.00	- 181,000,000.00	- 44,450,000.00	
-	24,370.00	10,620.00	70,800.00	- 157,500,000.00	- 181,000,000.00	- 44,450,000.00	
-	24,370.00	6,370.00	67,340.00	- 138,700,000.00	- 180,500,000.00	- 44,450,000.00	
-	24,370.00	14,870.00	74,260.00	- 176,400,000.00	- 181,600,000.00	- 44,450,000.00	
-	24,370.00	6,370.00	67,340.00	- 138,700,000.00	- 180,500,000.00	- 44,450,000.00	
-	24,370.00	14,870.00	74,260.00	- 176,400,000.00	- 181,600,000.00	- 44,450,000.00	
-	23,680.00	0.02	63,760.00	- 53,600,000.00	- 173,300,000.00	- 41,590,000.00	
-	23,680.00	0.03	68,120.00	- 66,650,000.00	- 173,300,000.00	- 41,590,000.00	
-	23,680.00	0.03	68,120.00	- 66,650,000.00	- 173,300,000.00	- 41,590,000.00	
-	23,680.00	4,249.00	67,220.00	- 72,450,000.00	- 173,800,000.00	- 41,590,000.00	
-	23,680.00	- 4,249.00	64,660.00	- 47,800,000.00	- 172,700,000.00	- 41,590,000.00	
-	23,680.00	4,249.00	71,580.00	- 85,490,000.00	- 173,800,000.00	- 41,590,000.00	
-	23,680.00	4,249.00	71,580.00	- 85,490,000.00	- 173,800,000.00	- 41,590,000.00	
-	23,680.00	10,620.00	68,120.00	- 129,900,000.00	- 173,300,000.00	- 41,240,000.00	
-	23,680.00	10,620.00	68,120.00	- 129,900,000.00	- 173,300,000.00	- 41,240,000.00	
-	23,680.00	6,370.00	60,310.00	- 98,030,000.00	- 172,700,000.00	- 41,240,000.00	
-	23,680.00	14,870.00	67,220.00	- 135,700,000.00	- 173,800,000.00	- 41,240,000.00	
-	23,680.00	6,370.00	60,310.00	- 98,030,000.00	- 172,700,000.00	- 41,240,000.00	
-	23,680.00	6,370.00	64,660.00	- 111,100,000.00	- 172,700,000.00	- 41,240,000.00	
-	23,680.00	14,870.00	71,580.00	- 148,800,000.00	- 173,800,000.00	- 41,240,000.00	
-	23,680.00	6,370.00	64,660.00	- 111,100,000.00	- 172,700,000.00	- 41,240,000.00	
-	23,680.00	14,870.00	71,580.00	- 148,800,000.00	- 173,800,000.00	- 41,240,000.00	
-	693.00	0.06	73,160.00	- 88,670,000.00	- 9,508,000.00	- 3,219,000.00	
-	693.00	- 4,249.00	69,700.00	- 69,820,000.00	- 8,985,000.00	- 3,219,000.00	
-	693.00	- 4,249.00	69,700.00	- 69,820,000.00	- 8,985,000.00	- 3,219,000.00	
-	693.00	4,249.00	76,620.00	- 107,500,000.00	- 10,030,000.00	- 3,219,000.00	
-	693.00	10,620.00	68,800.00	- 138,900,000.00	- 9,508,000.00	- 2,864,000.00	
-	693.00	10,620.00	68,800.00	- 138,900,000.00	- 9,508,000.00	- 2,864,000.00	
-	693.00	10,620.00	73,160.00	- 152,000,000.00	- 9,508,000.00	- 2,864,000.00	
-	693.00	10,620.00	73,160.00	- 152,000,000.00	- 9,508,000.00	- 2,864,000.00	
-	693.00	14,870.00	72,260.00	- 157,800,000.00	- 10,030,000.00	- 2,864,000.00	
-	693.00	6,370.00	65,350.00	- 120,100,000.00	- 8,985,000.00	- 2,864,000.00	
-	693.00	6,370.00	69,700.00	- 133,100,000.00	- 8,985,000.00	- 2,864,000.00	
-	693.00	14,870.00	76,620.00	- 170,800,000.00	- 10,030,000.00	- 2,864,000.00	
-	693.00	6,370.00	69,700.00	- 133,100,000.00	- 8,985,000.00	- 2,864,000.00	
-	693.00	14,870.00	76,620.00	- 170,800,000.00	- 10,030,000.00	- 2,864,000.00	
-	24,370.00	- 4,249.00	65,350.00	- 56,780,000.00	- 179,800,000.00	- 44,810,000.00	
-	24,370.00	4,249.00	72,260.00	- 94,470,000.00	- 180,800,000.00	- 44,810,000.00	
-	24,370.00	- 4,249.00	69,700.00	- 69,820,000.00	- 179,800,000.00	- 44,810,000.00	
-	24,370.00	- 4,249.00	69,700.00	- 69,820,000.00	- 179,800,000.00	- 44,810,000.00	
-	24,370.00	4,249.00	76,620.00	- 107,500,000.00	- 180,800,000.00	- 44,810,000.00	
-	24,370.00	10,620.00	68,800.00	- 138,900,000.00	- 180,300,000.00	- 44,450,000.00	
-	24,370.00	10,620.00	68,800.00	- 138,900,000.00	- 180,300,000.00	- 44,450,000.00	
-	24,370.00	10,620.00	73,160.00	- 152,000,000.00	- 180,300,000.00	- 44,450,000.00	
-	24,370.00	10,620.00	73,160.00	- 152,000,000.00	- 180,300,000.00	- 44,450,000.00	
-	24,370.00	6,370.00	65,350.00	- 120,100,000.00	- 179,800,000.00	- 44,450,000.00	
-	24,370.00	14,870.00	72,260.00	- 157,800,000.00	- 180,800,000.00	- 44,450,000.00	

<b>GENERAL CONTRACTOR</b>   <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>   <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 59 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	24,370.00		6,370.00		69,700.00	- 133,100,000.00	-	179,800,000.00	-	44,450,000.00
-	24,370.00		14,870.00		76,620.00	- 170,800,000.00	-	180,800,000.00	-	44,450,000.00
-	24,370.00		6,370.00		69,700.00	- 133,100,000.00	-	179,800,000.00	-	44,450,000.00
-	24,370.00		14,870.00		76,620.00	- 170,800,000.00	-	180,800,000.00	-	44,450,000.00
-	23,680.00		0.03		75,100.00	- 76,780,000.00	-	174,000,000.00	-	41,590,000.00
-	23,680.00		4,249.00		74,200.00	- 82,580,000.00	-	174,500,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		71,650.00	- 57,930,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00		10,620.00		70,750.00	- 127,000,000.00	-	174,000,000.00	-	41,240,000.00
-	23,680.00		10,620.00		75,100.00	- 140,100,000.00	-	174,000,000.00	-	41,240,000.00
-	23,680.00		10,620.00		75,100.00	- 140,100,000.00	-	174,000,000.00	-	41,240,000.00
-	23,680.00		14,870.00		74,200.00	- 145,900,000.00	-	174,500,000.00	-	41,240,000.00
-	23,680.00		6,370.00		71,650.00	- 121,200,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		14,870.00		78,560.00	- 158,900,000.00	-	174,500,000.00	-	41,240,000.00
-	23,680.00		6,370.00		71,650.00	- 121,200,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		14,870.00		78,560.00	- 158,900,000.00	-	174,500,000.00	-	41,240,000.00
-	693.00		0.07		80,140.00	- 98,800,000.00	-	10,250,000.00	-	3,219,000.00
-	693.00	-	4,249.00		76,690.00	- 79,960,000.00	-	9,727,000.00	-	3,219,000.00
-	693.00		4,249.00		83,600.00	- 117,700,000.00	-	10,770,000.00	-	3,219,000.00
-	693.00		10,620.00		80,140.00	- 162,100,000.00	-	10,250,000.00	-	2,864,000.00
-	693.00		10,620.00		80,140.00	- 162,100,000.00	-	10,250,000.00	-	2,864,000.00
-	693.00		6,370.00		72,330.00	- 130,200,000.00	-	9,727,000.00	-	2,864,000.00
-	693.00		14,870.00		79,240.00	- 167,900,000.00	-	10,770,000.00	-	2,864,000.00
-	693.00		6,370.00		72,330.00	- 130,200,000.00	-	9,727,000.00	-	2,864,000.00
-	693.00		14,870.00		79,240.00	- 167,900,000.00	-	10,770,000.00	-	2,864,000.00
-	693.00		6,370.00		76,690.00	- 143,200,000.00	-	9,727,000.00	-	2,864,000.00
-	693.00		14,870.00		83,600.00	- 180,900,000.00	-	10,770,000.00	-	2,864,000.00
-	693.00		6,370.00		76,690.00	- 143,200,000.00	-	9,727,000.00	-	2,864,000.00
-	693.00		14,870.00		83,600.00	- 180,900,000.00	-	10,770,000.00	-	2,864,000.00
-	24,370.00		0.04		75,790.00	- 85,760,000.00	-	181,000,000.00	-	44,810,000.00
-	24,370.00		0.05		80,140.00	- 98,800,000.00	-	181,000,000.00	-	44,810,000.00
-	24,370.00		0.05		80,140.00	- 98,800,000.00	-	181,000,000.00	-	44,810,000.00
-	24,370.00		4,249.00		83,600.00	- 117,700,000.00	-	181,600,000.00	-	44,810,000.00
-	24,370.00		10,620.00		80,140.00	- 162,100,000.00	-	181,000,000.00	-	44,450,000.00
-	24,370.00		10,620.00		80,140.00	- 162,100,000.00	-	181,000,000.00	-	44,450,000.00
-	24,370.00		6,370.00		72,330.00	- 130,200,000.00	-	180,500,000.00	-	44,450,000.00
-	24,370.00		14,870.00		79,240.00	- 167,900,000.00	-	181,600,000.00	-	44,450,000.00
-	24,370.00		6,370.00		76,690.00	- 143,200,000.00	-	180,500,000.00	-	44,450,000.00
-	24,370.00		14,870.00		83,600.00	- 180,900,000.00	-	181,600,000.00	-	44,450,000.00
-	24,370.00		6,370.00		76,690.00	- 143,200,000.00	-	180,500,000.00	-	44,450,000.00
-	24,370.00		14,870.00		83,600.00	- 180,900,000.00	-	181,600,000.00	-	44,450,000.00
-	23,680.00		0.01		54,420.00	- 49,020,000.00	-	173,300,000.00	-	41,590,000.00
-	23,680.00	-	11,540.00		54,420.00	21,470,000.00	-	173,300,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		57,880.00	2,625,000.00	-	173,800,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		57,880.00	2,625,000.00	-	173,800,000.00	-	41,950,000.00
-	693.00		4,249.00		62,920.00	- 89,900,000.00	-	10,030,000.00	-	3,219,000.00
-	693.00	-	7,292.00		62,920.00	- 19,400,000.00	-	10,030,000.00	-	3,574,000.00
-	693.00	-	15,790.00		56,000.00	18,300,000.00	-	8,985,000.00	-	3,574,000.00
-	693.00	-	7,292.00		62,920.00	- 19,400,000.00	-	10,030,000.00	-	3,574,000.00
-	24,370.00		0.03		59,460.00	- 71,050,000.00	-	180,300,000.00	-	44,810,000.00
-	24,370.00		0.03		59,460.00	- 71,050,000.00	-	180,300,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		56,000.00	- 52,200,000.00	-	179,800,000.00	-	44,810,000.00
-	24,370.00		4,249.00		62,920.00	- 89,900,000.00	-	180,800,000.00	-	44,810,000.00
-	24,370.00	-	11,540.00		59,460.00	- 552,100.00	-	180,300,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		62,920.00	- 19,400,000.00	-	180,800,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		56,000.00	18,300,000.00	-	179,800,000.00	-	45,160,000.00

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 60 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	24,370.00	-	7,292.00	62,920.00	-	19,400,000.00	-	180,800,000.00	-	45,160,000.00
-	23,680.00		0.02	61,400.00	-	59,160,000.00	-	174,000,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00	57,950.00	-	40,310,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00		4,249.00	64,860.00	-	78,000,000.00	-	174,500,000.00	-	41,590,000.00
-	23,680.00	-	11,540.00	61,400.00		11,340,000.00	-	174,000,000.00	-	41,950,000.00
-	693.00		0.06	66,440.00	-	81,180,000.00	-	10,250,000.00	-	3,219,000.00
-	693.00		4,249.00	69,900.00	-	100,000,000.00	-	10,770,000.00	-	3,219,000.00
-	693.00	-	7,292.00	69,900.00	-	29,530,000.00	-	10,770,000.00	-	3,574,000.00
-	24,370.00	-	4,249.00	62,990.00	-	62,330,000.00	-	180,500,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00	62,990.00	-	62,330,000.00	-	180,500,000.00	-	44,810,000.00
-	24,370.00	-	11,540.00	66,440.00	-	10,680,000.00	-	181,000,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00	69,900.00	-	29,530,000.00	-	181,600,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00	69,900.00	-	29,530,000.00	-	181,600,000.00	-	45,160,000.00
-	23,680.00		0.02	63,760.00	-	53,600,000.00	-	173,300,000.00	-	41,590,000.00
-	23,680.00	-	11,540.00	63,760.00		16,900,000.00	-	173,300,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00	67,220.00	-	1,951,000.00	-	173,800,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00	67,220.00	-	1,951,000.00	-	173,800,000.00	-	41,950,000.00
-	693.00	-	4,249.00	65,350.00	-	56,780,000.00	-	8,985,000.00	-	3,219,000.00
-	693.00		4,249.00	72,260.00	-	94,470,000.00	-	10,030,000.00	-	3,219,000.00
-	693.00	-	11,540.00	68,800.00	-	5,128,000.00	-	9,508,000.00	-	3,574,000.00
-	693.00	-	15,790.00	65,350.00		13,720,000.00	-	8,985,000.00	-	3,574,000.00
-	693.00	-	7,292.00	72,260.00	-	23,980,000.00	-	10,030,000.00	-	3,574,000.00
-	24,370.00	-	15,790.00	65,350.00		13,720,000.00	-	179,800,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00	72,260.00	-	23,980,000.00	-	180,800,000.00	-	45,160,000.00
-	693.00		0.06	75,790.00	-	85,760,000.00	-	10,250,000.00	-	3,219,000.00
-	693.00	-	11,540.00	75,790.00	-	15,260,000.00	-	10,250,000.00	-	3,574,000.00
-	693.00	-	11,540.00	75,790.00	-	15,260,000.00	-	10,250,000.00	-	3,574,000.00
-	693.00	-	15,790.00	72,330.00		3,588,000.00	-	9,727,000.00	-	3,574,000.00
-	693.00	-	7,292.00	79,240.00	-	34,110,000.00	-	10,770,000.00	-	3,574,000.00
-	693.00	-	15,790.00	72,330.00		3,588,000.00	-	9,727,000.00	-	3,574,000.00
-	693.00	-	7,292.00	79,240.00	-	34,110,000.00	-	10,770,000.00	-	3,574,000.00
-	24,370.00	-	11,540.00	75,790.00	-	15,260,000.00	-	181,000,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00	72,330.00		3,588,000.00	-	180,500,000.00	-	45,160,000.00
-	23,680.00		0.01	54,420.00	-	49,020,000.00	-	173,300,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00	50,960.00	-	30,180,000.00	-	172,700,000.00	-	41,590,000.00
-	23,680.00	-	11,540.00	54,420.00		21,470,000.00	-	173,300,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00	50,960.00		40,320,000.00	-	172,700,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00	57,880.00		2,625,000.00	-	173,800,000.00	-	41,950,000.00
-	693.00		0.05	59,460.00	-	71,050,000.00	-	9,508,000.00	-	3,219,000.00
-	693.00	-	11,540.00	59,460.00	-	552,300.00	-	9,508,000.00	-	3,574,000.00
-	693.00	-	15,790.00	56,000.00		18,300,000.00	-	8,985,000.00	-	3,574,000.00
-	693.00	-	7,292.00	62,920.00	-	19,400,000.00	-	10,030,000.00	-	3,574,000.00
-	24,370.00		0.03	59,460.00	-	71,050,000.00	-	180,300,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00	56,000.00	-	52,200,000.00	-	179,800,000.00	-	44,810,000.00
-	24,370.00		4,249.00	62,920.00	-	89,900,000.00	-	180,800,000.00	-	44,810,000.00
-	24,370.00	-	11,540.00	59,460.00	-	552,100.00	-	180,300,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00	56,000.00		18,300,000.00	-	179,800,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00	62,920.00	-	19,400,000.00	-	180,800,000.00	-	45,160,000.00
-	23,680.00		0.02	61,400.00	-	59,160,000.00	-	174,000,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00	57,950.00	-	40,310,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00		4,249.00	64,860.00	-	78,000,000.00	-	174,500,000.00	-	41,590,000.00
-	23,680.00	-	11,540.00	61,400.00		11,340,000.00	-	174,000,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00	57,950.00		30,190,000.00	-	173,500,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00	64,860.00	-	7,507,000.00	-	174,500,000.00	-	41,950,000.00
-	693.00		0.06	66,440.00	-	81,180,000.00	-	10,250,000.00	-	3,219,000.00

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 61 di 215

Reazioni vincolari - STR A1						
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>	
- 693.00	0.06	66,440.00	- 81,180,000.00	- 10,250,000.00	- 3,219,000.00	
- 693.00	4,249.00	69,900.00	- 100,000,000.00	- 10,770,000.00	- 3,219,000.00	
- 693.00	- 11,540.00	66,440.00	- 10,680,000.00	- 10,250,000.00	- 3,574,000.00	
- 693.00	- 15,790.00	62,990.00	8,164,000.00	- 9,727,000.00	- 3,574,000.00	
- 693.00	- 7,292.00	69,900.00	- 29,530,000.00	- 10,770,000.00	- 3,574,000.00	
- 24,370.00	4,249.00	69,900.00	- 100,000,000.00	- 181,600,000.00	- 44,810,000.00	
- 24,370.00	- 11,540.00	66,440.00	- 10,680,000.00	- 181,000,000.00	- 45,160,000.00	
- 24,370.00	- 11,540.00	66,440.00	- 10,680,000.00	- 181,000,000.00	- 45,160,000.00	
- 24,370.00	- 15,790.00	62,990.00	8,164,000.00	- 180,500,000.00	- 45,160,000.00	
- 24,370.00	- 15,790.00	62,990.00	8,164,000.00	- 180,500,000.00	- 45,160,000.00	
- 24,370.00	- 7,292.00	69,900.00	- 29,530,000.00	- 181,600,000.00	- 45,160,000.00	
- 23,680.00	0.02	63,760.00	- 53,600,000.00	- 173,300,000.00	- 41,590,000.00	
- 23,680.00	- 4,249.00	60,310.00	- 34,750,000.00	- 172,700,000.00	- 41,590,000.00	
- 23,680.00	4,249.00	67,220.00	- 72,450,000.00	- 173,800,000.00	- 41,590,000.00	
- 23,680.00	- 11,540.00	63,760.00	16,900,000.00	- 173,300,000.00	- 41,950,000.00	
- 23,680.00	- 15,790.00	60,310.00	35,740,000.00	- 172,700,000.00	- 41,950,000.00	
- 23,680.00	- 15,790.00	60,310.00	35,740,000.00	- 172,700,000.00	- 41,950,000.00	
- 23,680.00	- 7,292.00	67,220.00	- 1,951,000.00	- 173,800,000.00	- 41,950,000.00	
- 693.00	- 11,540.00	68,800.00	- 5,128,000.00	- 9,508,000.00	- 3,574,000.00	
- 693.00	- 11,540.00	68,800.00	- 5,128,000.00	- 9,508,000.00	- 3,574,000.00	
- 693.00	- 15,790.00	65,350.00	13,720,000.00	- 8,985,000.00	- 3,574,000.00	
- 693.00	- 7,292.00	72,260.00	- 23,980,000.00	- 10,030,000.00	- 3,574,000.00	
- 24,370.00	0.03	68,800.00	- 75,620,000.00	- 180,300,000.00	- 44,810,000.00	
- 24,370.00	- 4,249.00	65,350.00	- 56,780,000.00	- 179,800,000.00	- 44,810,000.00	
- 24,370.00	4,249.00	72,260.00	- 94,470,000.00	- 180,800,000.00	- 44,810,000.00	
- 24,370.00	- 11,540.00	68,800.00	- 5,128,000.00	- 180,300,000.00	- 45,160,000.00	
- 24,370.00	- 11,540.00	68,800.00	- 5,128,000.00	- 180,300,000.00	- 45,160,000.00	
- 24,370.00	- 15,790.00	65,350.00	13,720,000.00	- 179,800,000.00	- 45,160,000.00	
- 24,370.00	- 7,292.00	72,260.00	- 23,980,000.00	- 180,800,000.00	- 45,160,000.00	
- 23,680.00	0.02	70,750.00	- 63,730,000.00	- 174,000,000.00	- 41,590,000.00	
- 23,680.00	- 4,249.00	67,290.00	- 44,880,000.00	- 173,500,000.00	- 41,590,000.00	
- 23,680.00	4,249.00	74,200.00	- 82,580,000.00	- 174,500,000.00	- 41,590,000.00	
- 23,680.00	- 11,540.00	70,750.00	6,766,000.00	- 174,000,000.00	- 41,950,000.00	
- 23,680.00	- 11,540.00	70,750.00	6,766,000.00	- 174,000,000.00	- 41,950,000.00	
- 23,680.00	- 15,790.00	67,290.00	25,610,000.00	- 173,500,000.00	- 41,950,000.00	
- 23,680.00	- 7,292.00	74,200.00	- 12,080,000.00	- 174,500,000.00	- 41,950,000.00	
- 23,680.00	- 15,790.00	67,290.00	25,610,000.00	- 173,500,000.00	- 41,950,000.00	
- 23,680.00	- 7,292.00	74,200.00	- 12,080,000.00	- 174,500,000.00	- 41,950,000.00	
- 693.00	0.06	75,790.00	- 85,760,000.00	- 10,250,000.00	- 3,219,000.00	
- 693.00	- 4,249.00	72,330.00	- 66,910,000.00	- 9,727,000.00	- 3,219,000.00	
- 693.00	4,249.00	79,240.00	- 104,600,000.00	- 10,770,000.00	- 3,219,000.00	
- 693.00	- 11,540.00	75,790.00	- 15,260,000.00	- 10,250,000.00	- 3,574,000.00	
- 693.00	- 15,790.00	72,330.00	3,588,000.00	- 9,727,000.00	- 3,574,000.00	
- 693.00	- 7,292.00	79,240.00	- 34,110,000.00	- 10,770,000.00	- 3,574,000.00	
- 24,370.00	4,249.00	79,240.00	- 104,600,000.00	- 181,600,000.00	- 44,810,000.00	
- 24,370.00	- 11,540.00	75,790.00	- 15,260,000.00	- 181,000,000.00	- 45,160,000.00	
- 24,370.00	- 7,292.00	79,240.00	- 34,110,000.00	- 181,600,000.00	- 45,160,000.00	
- 24,370.00	- 15,790.00	72,330.00	3,588,000.00	- 180,500,000.00	- 45,160,000.00	
- 24,370.00	- 7,292.00	79,240.00	- 34,110,000.00	- 181,600,000.00	- 45,160,000.00	
- 23,680.00	0.01	54,420.00	- 49,020,000.00	- 173,300,000.00	- 41,590,000.00	
- 23,680.00	0.02	58,780.00	- 62,070,000.00	- 173,300,000.00	- 41,590,000.00	
- 23,680.00	- 4,249.00	50,960.00	- 30,180,000.00	- 172,700,000.00	- 41,590,000.00	
- 23,680.00	4,249.00	57,880.00	- 67,870,000.00	- 173,800,000.00	- 41,590,000.00	
- 23,680.00	4,249.00	57,880.00	- 67,870,000.00	- 173,800,000.00	- 41,590,000.00	
- 23,680.00	4,249.00	62,230.00	- 80,920,000.00	- 173,800,000.00	- 41,590,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 62 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	23,680.00	-	11,540.00		54,420.00	21,470,000.00	-	173,300,000.00	-	41,950,000.00
-	23,680.00	-	11,540.00		58,780.00	8,426,000.00	-	173,300,000.00	-	41,950,000.00
-	23,680.00	-	11,540.00		58,780.00	8,426,000.00	-	173,300,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		50,960.00	40,320,000.00	-	172,700,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		50,960.00	40,320,000.00	-	172,700,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		55,320.00	27,270,000.00	-	172,700,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		62,230.00	- 10,420,000.00	-	173,800,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		55,320.00	27,270,000.00	-	172,700,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		62,230.00	- 10,420,000.00	-	173,800,000.00	-	41,950,000.00
-	693.00	-	4,249.00		56,000.00	- 52,200,000.00	-	8,985,000.00	-	3,219,000.00
-	693.00	-	4,249.00		62,920.00	- 89,900,000.00	-	10,030,000.00	-	3,219,000.00
-	693.00	-	4,249.00		56,000.00	- 52,200,000.00	-	8,985,000.00	-	3,219,000.00
-	693.00	-	4,249.00		67,270.00	- 102,900,000.00	-	10,030,000.00	-	3,219,000.00
-	693.00	-	4,249.00		60,360.00	- 65,250,000.00	-	8,985,000.00	-	3,219,000.00
-	693.00	-	4,249.00		67,270.00	- 102,900,000.00	-	10,030,000.00	-	3,219,000.00
-	693.00	-	11,540.00		59,460.00	- 552,300.00	-	9,508,000.00	-	3,574,000.00
-	693.00	-	11,540.00		59,460.00	- 552,300.00	-	9,508,000.00	-	3,574,000.00
-	693.00	-	11,540.00		63,820.00	- 13,600,000.00	-	9,508,000.00	-	3,574,000.00
-	693.00	-	11,540.00		63,820.00	- 13,600,000.00	-	9,508,000.00	-	3,574,000.00
-	693.00	-	15,790.00		56,000.00	18,300,000.00	-	8,985,000.00	-	3,574,000.00
-	693.00	-	15,790.00		60,360.00	5,249,000.00	-	8,985,000.00	-	3,574,000.00
-	693.00	-	7,292.00		67,270.00	- 32,450,000.00	-	10,030,000.00	-	3,574,000.00
-	693.00	-	15,790.00		60,360.00	5,249,000.00	-	8,985,000.00	-	3,574,000.00
-	693.00	-	7,292.00		67,270.00	- 32,450,000.00	-	10,030,000.00	-	3,574,000.00
-	24,370.00		0.04		63,820.00	- 84,100,000.00	-	180,300,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		67,270.00	- 102,900,000.00	-	180,800,000.00	-	44,810,000.00
-	24,370.00	-	11,540.00		59,460.00	- 552,100.00	-	180,300,000.00	-	45,160,000.00
-	24,370.00	-	11,540.00		63,820.00	- 13,600,000.00	-	180,300,000.00	-	45,160,000.00
-	24,370.00	-	11,540.00		63,820.00	- 13,600,000.00	-	180,300,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		56,000.00	18,300,000.00	-	179,800,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		60,360.00	5,249,000.00	-	179,800,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		67,270.00	- 32,450,000.00	-	180,800,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		60,360.00	5,249,000.00	-	179,800,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		67,270.00	- 32,450,000.00	-	180,800,000.00	-	45,160,000.00
-	23,680.00		0.02		61,400.00	- 59,160,000.00	-	174,000,000.00	-	41,590,000.00
-	23,680.00		0.03		65,760.00	- 72,200,000.00	-	174,000,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		57,950.00	- 40,310,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		64,860.00	- 78,000,000.00	-	174,500,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		69,220.00	- 91,050,000.00	-	174,500,000.00	-	41,590,000.00
-	23,680.00	-	11,540.00		61,400.00	11,340,000.00	-	174,000,000.00	-	41,950,000.00
-	23,680.00	-	11,540.00		65,760.00	- 1,705,000.00	-	174,000,000.00	-	41,950,000.00
-	23,680.00	-	11,540.00		65,760.00	- 1,705,000.00	-	174,000,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		57,950.00	30,190,000.00	-	173,500,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		64,860.00	- 7,507,000.00	-	174,500,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		57,950.00	30,190,000.00	-	173,500,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		64,860.00	- 7,507,000.00	-	174,500,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		62,300.00	17,140,000.00	-	173,500,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		69,220.00	- 20,550,000.00	-	174,500,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		62,300.00	17,140,000.00	-	173,500,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		69,220.00	- 20,550,000.00	-	174,500,000.00	-	41,950,000.00
-	693.00		0.07		70,800.00	- 94,230,000.00	-	10,250,000.00	-	3,219,000.00
-	693.00	-	4,249.00		67,340.00	- 75,380,000.00	-	9,727,000.00	-	3,219,000.00
-	693.00	-	4,249.00		74,260.00	- 113,100,000.00	-	10,770,000.00	-	3,219,000.00
-	693.00	-	11,540.00		66,440.00	- 10,680,000.00	-	10,250,000.00	-	3,574,000.00
-	693.00	-	11,540.00		66,440.00	- 10,680,000.00	-	10,250,000.00	-	3,574,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 63 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	693.00	-	11,540.00	70,800.00	-	23,730,000.00	-	10,250,000.00	-	3,574,000.00
-	693.00	-	11,540.00	70,800.00	-	23,730,000.00	-	10,250,000.00	-	3,574,000.00
-	693.00	-	15,790.00	62,990.00	8,164,000.00	-	9,727,000.00	-	3,574,000.00	-
-	693.00	-	7,292.00	69,900.00	-	29,530,000.00	-	10,770,000.00	-	3,574,000.00
-	693.00	-	15,790.00	62,990.00	8,164,000.00	-	9,727,000.00	-	3,574,000.00	-
-	693.00	-	15,790.00	67,340.00	-	4,882,000.00	-	9,727,000.00	-	3,574,000.00
-	693.00	-	7,292.00	74,260.00	-	42,580,000.00	-	10,770,000.00	-	3,574,000.00
-	693.00	-	15,790.00	67,340.00	-	4,882,000.00	-	9,727,000.00	-	3,574,000.00
-	693.00	-	7,292.00	74,260.00	-	42,580,000.00	-	10,770,000.00	-	3,574,000.00
-	24,370.00		0.03	66,440.00	-	81,180,000.00	-	181,000,000.00	-	44,810,000.00
-	24,370.00		0.03	66,440.00	-	81,180,000.00	-	181,000,000.00	-	44,810,000.00
-	24,370.00	-	11,540.00	70,800.00	-	23,730,000.00	-	181,000,000.00	-	45,160,000.00
-	24,370.00	-	11,540.00	70,800.00	-	23,730,000.00	-	181,000,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00	62,990.00	8,164,000.00	-	180,500,000.00	-	45,160,000.00	-
-	24,370.00	-	15,790.00	67,340.00	-	4,882,000.00	-	180,500,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00	74,260.00	-	42,580,000.00	-	181,600,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00	67,340.00	-	4,882,000.00	-	180,500,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00	74,260.00	-	42,580,000.00	-	181,600,000.00	-	45,160,000.00
-	23,680.00	-	4,249.00	64,660.00	-	47,800,000.00	-	172,700,000.00	-	41,590,000.00
-	23,680.00	-	11,540.00	63,760.00	16,900,000.00	-	173,300,000.00	-	41,950,000.00	-
-	23,680.00	-	11,540.00	68,120.00	3,851,000.00	-	173,300,000.00	-	41,950,000.00	-
-	23,680.00	-	11,540.00	68,120.00	3,851,000.00	-	173,300,000.00	-	41,950,000.00	-
-	23,680.00	-	15,790.00	60,310.00	35,740,000.00	-	172,700,000.00	-	41,950,000.00	-
-	23,680.00	-	15,790.00	64,660.00	22,700,000.00	-	172,700,000.00	-	41,950,000.00	-
-	23,680.00	-	7,292.00	71,580.00	-	15,000,000.00	-	173,800,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00	64,660.00	22,700,000.00	-	172,700,000.00	-	41,950,000.00	-
-	23,680.00	-	7,292.00	71,580.00	-	15,000,000.00	-	173,800,000.00	-	41,950,000.00
-	693.00		0.06	73,160.00	-	88,670,000.00	-	9,508,000.00	-	3,219,000.00
-	693.00		4,249.00	76,620.00	-	107,500,000.00	-	10,030,000.00	-	3,219,000.00
-	693.00	-	11,540.00	73,160.00	-	18,170,000.00	-	9,508,000.00	-	3,574,000.00
-	693.00	-	11,540.00	73,160.00	-	18,170,000.00	-	9,508,000.00	-	3,574,000.00
-	693.00	-	15,790.00	65,350.00	13,720,000.00	-	8,985,000.00	-	3,574,000.00	-
-	693.00	-	7,292.00	72,260.00	-	23,980,000.00	-	10,030,000.00	-	3,574,000.00
-	693.00	-	15,790.00	69,700.00	673,500.00	-	8,985,000.00	-	3,574,000.00	-
-	693.00	-	7,292.00	76,620.00	-	37,020,000.00	-	10,030,000.00	-	3,574,000.00
-	693.00	-	15,790.00	69,700.00	673,500.00	-	8,985,000.00	-	3,574,000.00	-
-	693.00	-	7,292.00	76,620.00	-	37,020,000.00	-	10,030,000.00	-	3,574,000.00
-	24,370.00		0.04	73,160.00	-	88,670,000.00	-	180,300,000.00	-	44,810,000.00
-	24,370.00		0.04	73,160.00	-	88,670,000.00	-	180,300,000.00	-	44,810,000.00
-	24,370.00		4,249.00	76,620.00	-	107,500,000.00	-	180,800,000.00	-	44,810,000.00
-	24,370.00	-	11,540.00	68,800.00	-	5,128,000.00	-	180,300,000.00	-	45,160,000.00
-	24,370.00	-	11,540.00	73,160.00	-	18,170,000.00	-	180,300,000.00	-	45,160,000.00
-	24,370.00	-	11,540.00	73,160.00	-	18,170,000.00	-	180,300,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00	65,350.00	13,720,000.00	-	179,800,000.00	-	45,160,000.00	-
-	24,370.00	-	7,292.00	72,260.00	-	23,980,000.00	-	180,800,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00	69,700.00	673,700.00	-	179,800,000.00	-	45,160,000.00	-
-	24,370.00	-	7,292.00	76,620.00	-	37,020,000.00	-	180,800,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00	69,700.00	673,700.00	-	179,800,000.00	-	45,160,000.00	-
-	24,370.00	-	7,292.00	76,620.00	-	37,020,000.00	-	180,800,000.00	-	45,160,000.00
-	23,680.00		0.02	70,750.00	-	63,730,000.00	-	174,000,000.00	-	41,590,000.00
-	23,680.00		0.03	75,100.00	-	76,780,000.00	-	174,000,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00	67,290.00	-	44,880,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00	78,560.00	-	95,630,000.00	-	174,500,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00	71,650.00	-	57,930,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00	78,560.00	-	95,630,000.00	-	174,500,000.00	-	41,590,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 64 di 215

Reazioni vincolari - STR A1										
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>					
-	23,680.00	-	11,540.00	70,750.00	6,766,000.00	-	174,000,000.00	-	41,950,000.00	
-	23,680.00	-	11,540.00	75,100.00	-	6,281,000.00	-	174,000,000.00	-	41,950,000.00
-	23,680.00	-	11,540.00	75,100.00	-	6,281,000.00	-	174,000,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00	67,290.00	25,610,000.00	-	173,500,000.00	-	41,950,000.00	
-	23,680.00	-	7,292.00	74,200.00	-	12,080,000.00	-	174,500,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00	71,650.00	12,570,000.00	-	173,500,000.00	-	41,950,000.00	
-	23,680.00	-	7,292.00	78,560.00	-	25,130,000.00	-	174,500,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00	71,650.00	12,570,000.00	-	173,500,000.00	-	41,950,000.00	
-	23,680.00	-	7,292.00	78,560.00	-	25,130,000.00	-	174,500,000.00	-	41,950,000.00
-	693.00		0.06	75,790.00	-	85,760,000.00	-	10,250,000.00	-	3,219,000.00
-	693.00		0.07	80,140.00	-	98,800,000.00	-	10,250,000.00	-	3,219,000.00
-	693.00		4,249.00	79,240.00	-	104,600,000.00	-	10,770,000.00	-	3,219,000.00
-	693.00		4,249.00	83,600.00	-	117,700,000.00	-	10,770,000.00	-	3,219,000.00
-	693.00	-	4,249.00	76,690.00	-	79,960,000.00	-	9,727,000.00	-	3,219,000.00
-	693.00	-	11,540.00	80,140.00	-	28,310,000.00	-	10,250,000.00	-	3,574,000.00
-	693.00	-	11,540.00	80,140.00	-	28,310,000.00	-	10,250,000.00	-	3,574,000.00
-	693.00	-	15,790.00	76,690.00	-	9,458,000.00	-	9,727,000.00	-	3,574,000.00
-	693.00	-	7,292.00	83,600.00	-	47,150,000.00	-	10,770,000.00	-	3,574,000.00
-	693.00	-	15,790.00	76,690.00	-	9,458,000.00	-	9,727,000.00	-	3,574,000.00
-	693.00	-	7,292.00	83,600.00	-	47,150,000.00	-	10,770,000.00	-	3,574,000.00
-	24,370.00		4,249.00	79,240.00	-	104,600,000.00	-	181,600,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00	76,690.00	-	79,950,000.00	-	180,500,000.00	-	44,810,000.00
-	24,370.00		4,249.00	83,600.00	-	117,700,000.00	-	181,600,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00	76,690.00	-	79,950,000.00	-	180,500,000.00	-	44,810,000.00
-	24,370.00	-	11,540.00	75,790.00	-	15,260,000.00	-	181,000,000.00	-	45,160,000.00
-	24,370.00	-	11,540.00	80,140.00	-	28,310,000.00	-	181,000,000.00	-	45,160,000.00
-	24,370.00	-	11,540.00	80,140.00	-	28,310,000.00	-	181,000,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00	72,330.00	3,588,000.00	-	180,500,000.00	-	45,160,000.00	
-	24,370.00	-	7,292.00	79,240.00	-	34,110,000.00	-	181,600,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00	76,690.00	-	9,458,000.00	-	180,500,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00	83,600.00	-	47,150,000.00	-	181,600,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00	76,690.00	-	9,458,000.00	-	180,500,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00	83,600.00	-	47,150,000.00	-	181,600,000.00	-	45,160,000.00
23,680.00			4,249.00	57,880.00	-	67,870,000.00	167,800,000.00		41,590,000.00	
23,680.00			14,870.00	57,880.00	-	131,200,000.00	167,800,000.00		41,950,000.00	
23,680.00			6,370.00	50,960.00	-	93,460,000.00	168,800,000.00		41,950,000.00	
23,680.00			14,870.00	57,880.00	-	131,200,000.00	167,800,000.00		41,950,000.00	
22,990.00			4,249.00	62,920.00	-	89,900,000.00	160,800,000.00		38,370,000.00	
22,990.00			6,370.00	56,000.00	-	115,500,000.00	161,800,000.00		38,730,000.00	
22,990.00			14,870.00	62,920.00	-	153,200,000.00	160,800,000.00		38,730,000.00	
23,680.00			0.06	61,400.00	-	59,160,000.00	167,600,000.00		41,590,000.00	
23,680.00	-		4,249.00	57,950.00	-	40,310,000.00	168,100,000.00		41,590,000.00	
23,680.00			10,620.00	61,400.00	-	122,400,000.00	167,600,000.00		41,950,000.00	
23,680.00			10,620.00	61,400.00	-	122,400,000.00	167,600,000.00		41,950,000.00	
23,680.00			6,370.00	57,950.00	-	103,600,000.00	168,100,000.00		41,950,000.00	
22,990.00			6,370.00	62,990.00	-	125,600,000.00	161,100,000.00		38,730,000.00	
22,990.00			14,870.00	69,900.00	-	163,300,000.00	160,000,000.00		38,730,000.00	
22,990.00			6,370.00	62,990.00	-	125,600,000.00	161,100,000.00		38,730,000.00	
22,990.00			14,870.00	69,900.00	-	163,300,000.00	160,000,000.00		38,730,000.00	
23,680.00	-		4,249.00	60,310.00	-	34,750,000.00	168,800,000.00		41,590,000.00	
23,680.00			6,370.00	60,310.00	-	98,030,000.00	168,800,000.00		41,950,000.00	
23,680.00			14,870.00	67,220.00	-	135,700,000.00	167,800,000.00		41,950,000.00	
23,680.00			6,370.00	60,310.00	-	98,030,000.00	168,800,000.00		41,950,000.00	
23,680.00			14,870.00	67,220.00	-	135,700,000.00	167,800,000.00		41,950,000.00	
22,990.00			6,370.00	65,350.00	-	120,100,000.00	161,800,000.00		38,730,000.00	



<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 65 di 215
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>						

Reazioni vincolari - STR A1						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
22,990.00	14,870.00	72,260.00	- 157,800,000.00	160,800,000.00	38,730,000.00	
23,680.00	10,620.00	70,750.00	- 127,000,000.00	167,600,000.00	41,950,000.00	
23,680.00	6,370.00	67,290.00	- 108,200,000.00	168,100,000.00	41,950,000.00	
22,990.00	14,870.00	79,240.00	- 167,900,000.00	160,000,000.00	38,730,000.00	
23,680.00	4,249.00	57,880.00	- 67,870,000.00	167,800,000.00	41,590,000.00	
23,680.00	10,620.00	54,420.00	- 112,300,000.00	168,300,000.00	41,950,000.00	
23,680.00	6,370.00	50,960.00	- 93,460,000.00	168,800,000.00	41,950,000.00	
23,680.00	14,870.00	57,880.00	- 131,200,000.00	167,800,000.00	41,950,000.00	
22,990.00	4,249.00	62,920.00	- 89,900,000.00	160,800,000.00	38,370,000.00	
22,990.00	- 4,249.00	56,000.00	- 52,200,000.00	161,800,000.00	38,370,000.00	
22,990.00	10,620.00	59,460.00	- 134,300,000.00	161,300,000.00	38,730,000.00	
22,990.00	6,370.00	56,000.00	- 115,500,000.00	161,800,000.00	38,730,000.00	
22,990.00	14,870.00	62,920.00	- 153,200,000.00	160,800,000.00	38,730,000.00	
22,990.00	6,370.00	56,000.00	- 115,500,000.00	161,800,000.00	38,730,000.00	
22,990.00	14,870.00	62,920.00	- 153,200,000.00	160,800,000.00	38,730,000.00	
23,680.00	0.06	61,400.00	- 59,160,000.00	167,600,000.00	41,590,000.00	
23,680.00	- 4,249.00	57,950.00	- 40,310,000.00	168,100,000.00	41,590,000.00	
23,680.00	4,249.00	64,860.00	- 78,000,000.00	167,100,000.00	41,590,000.00	
23,680.00	10,620.00	61,400.00	- 122,400,000.00	167,600,000.00	41,950,000.00	
23,680.00	6,370.00	57,950.00	- 103,600,000.00	168,100,000.00	41,950,000.00	
23,680.00	14,870.00	64,860.00	- 141,300,000.00	167,100,000.00	41,950,000.00	
23,680.00	6,370.00	57,950.00	- 103,600,000.00	168,100,000.00	41,950,000.00	
23,680.00	14,870.00	64,860.00	- 141,300,000.00	167,100,000.00	41,950,000.00	
22,990.00	0.08	66,440.00	- 81,180,000.00	160,500,000.00	38,370,000.00	
22,990.00	4,249.00	69,900.00	- 100,000,000.00	160,000,000.00	38,370,000.00	
22,990.00	- 4,249.00	62,990.00	- 62,330,000.00	161,100,000.00	38,370,000.00	
22,990.00	4,249.00	69,900.00	- 100,000,000.00	160,000,000.00	38,370,000.00	
22,990.00	10,620.00	66,440.00	- 144,500,000.00	160,500,000.00	38,730,000.00	
22,990.00	10,620.00	66,440.00	- 144,500,000.00	160,500,000.00	38,730,000.00	
22,990.00	6,370.00	62,990.00	- 125,600,000.00	161,100,000.00	38,730,000.00	
22,990.00	14,870.00	69,900.00	- 163,300,000.00	160,000,000.00	38,730,000.00	
23,680.00	0.06	63,760.00	- 53,600,000.00	168,300,000.00	41,590,000.00	
23,680.00	- 4,249.00	60,310.00	- 34,750,000.00	168,800,000.00	41,590,000.00	
23,680.00	4,249.00	67,220.00	- 72,450,000.00	167,800,000.00	41,590,000.00	
23,680.00	4,249.00	67,220.00	- 72,450,000.00	167,800,000.00	41,590,000.00	
23,680.00	10,620.00	63,760.00	- 116,900,000.00	168,300,000.00	41,950,000.00	
23,680.00	6,370.00	60,310.00	- 98,030,000.00	168,800,000.00	41,950,000.00	
23,680.00	14,870.00	67,220.00	- 135,700,000.00	167,800,000.00	41,950,000.00	
22,990.00	10,620.00	68,800.00	- 138,900,000.00	161,300,000.00	38,730,000.00	
22,990.00	6,370.00	65,350.00	- 120,100,000.00	161,800,000.00	38,730,000.00	
22,990.00	14,870.00	72,260.00	- 157,800,000.00	160,800,000.00	38,730,000.00	
23,680.00	0.07	70,750.00	- 63,730,000.00	167,600,000.00	41,590,000.00	
23,680.00	- 4,249.00	67,290.00	- 44,880,000.00	168,100,000.00	41,590,000.00	
23,680.00	10,620.00	70,750.00	- 127,000,000.00	167,600,000.00	41,950,000.00	
23,680.00	6,370.00	67,290.00	- 108,200,000.00	168,100,000.00	41,950,000.00	
23,680.00	6,370.00	67,290.00	- 108,200,000.00	168,100,000.00	41,950,000.00	
23,680.00	14,870.00	74,200.00	- 145,900,000.00	167,100,000.00	41,950,000.00	
22,990.00	0.08	75,790.00	- 85,760,000.00	160,500,000.00	38,370,000.00	
22,990.00	4,249.00	79,240.00	- 104,600,000.00	160,000,000.00	38,370,000.00	
22,990.00	10,620.00	75,790.00	- 149,000,000.00	160,500,000.00	38,730,000.00	
22,990.00	10,620.00	75,790.00	- 149,000,000.00	160,500,000.00	38,730,000.00	
22,990.00	6,370.00	72,330.00	- 130,200,000.00	161,100,000.00	38,730,000.00	
22,990.00	14,870.00	79,240.00	- 167,900,000.00	160,000,000.00	38,730,000.00	
23,680.00	- 4,249.00	55,320.00	- 43,220,000.00	168,800,000.00	41,590,000.00	
23,680.00	4,249.00	62,230.00	- 80,920,000.00	167,800,000.00	41,590,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 66 di 215

<b>Reazioni vincolari - STR A1</b>						
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>	
23,680.00	4,249.00	62,230.00	- 80,920,000.00	167,800,000.00	41,590,000.00	
23,680.00	10,620.00	54,420.00	- 112,300,000.00	168,300,000.00	41,950,000.00	
23,680.00	10,620.00	54,420.00	- 112,300,000.00	168,300,000.00	41,950,000.00	
23,680.00	10,620.00	58,780.00	- 125,400,000.00	168,300,000.00	41,950,000.00	
23,680.00	10,620.00	58,780.00	- 125,400,000.00	168,300,000.00	41,950,000.00	
23,680.00	6,370.00	50,960.00	- 93,460,000.00	168,800,000.00	41,950,000.00	
23,680.00	6,370.00	55,320.00	- 106,500,000.00	168,800,000.00	41,950,000.00	
23,680.00	14,870.00	62,230.00	- 144,200,000.00	167,800,000.00	41,950,000.00	
23,680.00	6,370.00	55,320.00	- 106,500,000.00	168,800,000.00	41,950,000.00	
23,680.00	14,870.00	62,230.00	- 144,200,000.00	167,800,000.00	41,950,000.00	
22,990.00	4,249.00	67,270.00	- 102,900,000.00	160,800,000.00	38,370,000.00	
22,990.00	- 4,249.00	60,360.00	- 65,250,000.00	161,800,000.00	38,370,000.00	
22,990.00	10,620.00	59,460.00	- 134,300,000.00	161,300,000.00	38,730,000.00	
22,990.00	10,620.00	59,460.00	- 134,300,000.00	161,300,000.00	38,730,000.00	
22,990.00	10,620.00	63,820.00	- 147,400,000.00	161,300,000.00	38,730,000.00	
22,990.00	10,620.00	63,820.00	- 147,400,000.00	161,300,000.00	38,730,000.00	
22,990.00	6,370.00	60,360.00	- 128,500,000.00	161,800,000.00	38,730,000.00	
22,990.00	14,870.00	67,270.00	- 166,200,000.00	160,800,000.00	38,730,000.00	
22,990.00	6,370.00	60,360.00	- 128,500,000.00	161,800,000.00	38,730,000.00	
22,990.00	14,870.00	67,270.00	- 166,200,000.00	160,800,000.00	38,730,000.00	
23,680.00	0.07	65,760.00	- 72,200,000.00	167,600,000.00	41,590,000.00	
23,680.00	0.07	65,760.00	- 72,200,000.00	167,600,000.00	41,590,000.00	
23,680.00	4,249.00	69,220.00	- 91,050,000.00	167,100,000.00	41,590,000.00	
23,680.00	10,620.00	65,760.00	- 135,500,000.00	167,600,000.00	41,950,000.00	
23,680.00	10,620.00	65,760.00	- 135,500,000.00	167,600,000.00	41,950,000.00	
23,680.00	14,870.00	64,860.00	- 141,300,000.00	167,100,000.00	41,950,000.00	
23,680.00	6,370.00	62,300.00	- 116,600,000.00	168,100,000.00	41,950,000.00	
23,680.00	14,870.00	69,220.00	- 154,300,000.00	167,100,000.00	41,950,000.00	
23,680.00	6,370.00	62,300.00	- 116,600,000.00	168,100,000.00	41,950,000.00	
23,680.00	14,870.00	69,220.00	- 154,300,000.00	167,100,000.00	41,950,000.00	
22,990.00	0.08	66,440.00	- 81,180,000.00	160,500,000.00	38,370,000.00	
22,990.00	- 4,249.00	62,990.00	- 62,330,000.00	161,100,000.00	38,370,000.00	
22,990.00	4,249.00	69,900.00	- 100,000,000.00	160,000,000.00	38,370,000.00	
22,990.00	- 4,249.00	67,340.00	- 75,380,000.00	161,100,000.00	38,370,000.00	
22,990.00	4,249.00	74,260.00	- 113,100,000.00	160,000,000.00	38,370,000.00	
22,990.00	- 4,249.00	67,340.00	- 75,380,000.00	161,100,000.00	38,370,000.00	
22,990.00	4,249.00	74,260.00	- 113,100,000.00	160,000,000.00	38,370,000.00	
22,990.00	10,620.00	66,440.00	- 144,500,000.00	160,500,000.00	38,730,000.00	
22,990.00	10,620.00	70,800.00	- 157,500,000.00	160,500,000.00	38,730,000.00	
22,990.00	10,620.00	70,800.00	- 157,500,000.00	160,500,000.00	38,730,000.00	
22,990.00	6,370.00	67,340.00	- 138,700,000.00	161,100,000.00	38,730,000.00	
22,990.00	14,870.00	74,260.00	- 176,400,000.00	160,000,000.00	38,730,000.00	
22,990.00	6,370.00	67,340.00	- 138,700,000.00	161,100,000.00	38,730,000.00	
22,990.00	14,870.00	74,260.00	- 176,400,000.00	160,000,000.00	38,730,000.00	
23,680.00	0.07	68,120.00	- 66,650,000.00	168,300,000.00	41,590,000.00	
23,680.00	- 4,249.00	64,660.00	- 47,800,000.00	168,800,000.00	41,590,000.00	
23,680.00	4,249.00	71,580.00	- 85,490,000.00	167,800,000.00	41,590,000.00	
23,680.00	10,620.00	63,760.00	- 116,900,000.00	168,300,000.00	41,950,000.00	
23,680.00	10,620.00	63,760.00	- 116,900,000.00	168,300,000.00	41,950,000.00	
23,680.00	10,620.00	68,120.00	- 129,900,000.00	168,300,000.00	41,950,000.00	
23,680.00	10,620.00	68,120.00	- 129,900,000.00	168,300,000.00	41,950,000.00	
23,680.00	6,370.00	64,660.00	- 111,100,000.00	168,800,000.00	41,950,000.00	
23,680.00	14,870.00	71,580.00	- 148,800,000.00	167,800,000.00	41,950,000.00	
23,680.00	6,370.00	64,660.00	- 111,100,000.00	168,800,000.00	41,950,000.00	
23,680.00	14,870.00	71,580.00	- 148,800,000.00	167,800,000.00	41,950,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 67 di 215	

Reazioni vincolari - STR A1						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
22,990.00	0.07	68,800.00	- 75,630,000.00	161,300,000.00	38,370,000.00	
22,990.00	0.08	73,160.00	- 88,670,000.00	161,300,000.00	38,370,000.00	
22,990.00	0.08	73,160.00	- 88,670,000.00	161,300,000.00	38,370,000.00	
22,990.00	- 4,249.00	65,350.00	- 56,780,000.00	161,800,000.00	38,370,000.00	
22,990.00	4,249.00	72,260.00	- 94,470,000.00	160,800,000.00	38,370,000.00	
22,990.00	- 4,249.00	69,700.00	- 69,820,000.00	161,800,000.00	38,370,000.00	
22,990.00	4,249.00	76,620.00	- 107,500,000.00	160,800,000.00	38,370,000.00	
22,990.00	- 4,249.00	69,700.00	- 69,820,000.00	161,800,000.00	38,370,000.00	
22,990.00	10,620.00	68,800.00	- 138,900,000.00	161,300,000.00	38,730,000.00	
22,990.00	10,620.00	68,800.00	- 138,900,000.00	161,300,000.00	38,730,000.00	
22,990.00	10,620.00	73,160.00	- 152,000,000.00	161,300,000.00	38,730,000.00	
22,990.00	10,620.00	73,160.00	- 152,000,000.00	161,300,000.00	38,730,000.00	
22,990.00	6,370.00	65,350.00	- 120,100,000.00	161,800,000.00	38,730,000.00	
22,990.00	14,870.00	72,260.00	- 157,800,000.00	160,800,000.00	38,730,000.00	
22,990.00	6,370.00	69,700.00	- 133,100,000.00	161,800,000.00	38,730,000.00	
22,990.00	14,870.00	76,620.00	- 170,800,000.00	160,800,000.00	38,730,000.00	
22,990.00	6,370.00	69,700.00	- 133,100,000.00	161,800,000.00	38,730,000.00	
22,990.00	14,870.00	76,620.00	- 170,800,000.00	160,800,000.00	38,730,000.00	
23,680.00	0.08	75,100.00	- 76,780,000.00	167,600,000.00	41,590,000.00	
23,680.00	- 4,249.00	71,650.00	- 57,930,000.00	168,100,000.00	41,590,000.00	
23,680.00	10,620.00	70,750.00	- 127,000,000.00	167,600,000.00	41,950,000.00	
23,680.00	10,620.00	75,100.00	- 140,100,000.00	167,600,000.00	41,950,000.00	
23,680.00	10,620.00	75,100.00	- 140,100,000.00	167,600,000.00	41,950,000.00	
23,680.00	14,870.00	74,200.00	- 145,900,000.00	167,100,000.00	41,950,000.00	
23,680.00	14,870.00	74,200.00	- 145,900,000.00	167,100,000.00	41,950,000.00	
23,680.00	6,370.00	71,650.00	- 121,200,000.00	168,100,000.00	41,950,000.00	
23,680.00	14,870.00	78,560.00	- 158,900,000.00	167,100,000.00	41,950,000.00	
23,680.00	6,370.00	71,650.00	- 121,200,000.00	168,100,000.00	41,950,000.00	
23,680.00	14,870.00	78,560.00	- 158,900,000.00	167,100,000.00	41,950,000.00	
22,990.00	4,249.00	83,600.00	- 117,700,000.00	160,000,000.00	38,370,000.00	
22,990.00	- 4,249.00	76,690.00	- 79,960,000.00	161,100,000.00	38,370,000.00	
22,990.00	4,249.00	83,600.00	- 117,700,000.00	160,000,000.00	38,370,000.00	
22,990.00	10,620.00	75,790.00	- 149,000,000.00	160,500,000.00	38,730,000.00	
22,990.00	10,620.00	80,140.00	- 162,100,000.00	160,500,000.00	38,730,000.00	
22,990.00	10,620.00	80,140.00	- 162,100,000.00	160,500,000.00	38,730,000.00	
22,990.00	6,370.00	72,330.00	- 130,200,000.00	161,100,000.00	38,730,000.00	
22,990.00	6,370.00	72,330.00	- 130,200,000.00	161,100,000.00	38,730,000.00	
22,990.00	14,870.00	79,240.00	- 167,900,000.00	160,000,000.00	38,730,000.00	
22,990.00	6,370.00	76,690.00	- 143,200,000.00	161,100,000.00	38,730,000.00	
22,990.00	14,870.00	83,600.00	- 180,900,000.00	160,000,000.00	38,730,000.00	
22,990.00	6,370.00	76,690.00	- 143,200,000.00	161,100,000.00	38,730,000.00	
22,990.00	14,870.00	83,600.00	- 180,900,000.00	160,000,000.00	38,730,000.00	
23,680.00	- 15,790.00	50,960.00	40,320,000.00	168,800,000.00	41,240,000.00	
23,680.00	- 7,292.00	57,880.00	2,625,000.00	167,800,000.00	41,240,000.00	
22,990.00	- 11,540.00	59,460.00	- 552,500.00	161,300,000.00	38,020,000.00	
22,990.00	- 15,790.00	56,000.00	18,300,000.00	161,800,000.00	38,020,000.00	
23,680.00	- 4,249.00	57,950.00	- 40,310,000.00	168,100,000.00	41,590,000.00	
23,680.00	4,249.00	64,860.00	- 78,000,000.00	167,100,000.00	41,590,000.00	
23,680.00	- 11,540.00	61,400.00	11,340,000.00	167,600,000.00	41,240,000.00	
23,680.00	- 15,790.00	57,950.00	30,190,000.00	168,100,000.00	41,240,000.00	
23,680.00	- 7,292.00	64,860.00	- 7,507,000.00	167,100,000.00	41,240,000.00	
23,680.00	- 15,790.00	57,950.00	30,190,000.00	168,100,000.00	41,240,000.00	
23,680.00	- 7,292.00	64,860.00	- 7,507,000.00	167,100,000.00	41,240,000.00	
22,990.00	- 11,540.00	66,440.00	- 10,680,000.00	160,500,000.00	38,020,000.00	
22,990.00	- 11,540.00	66,440.00	- 10,680,000.00	160,500,000.00	38,020,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 68 di 215

Reazioni vincolari - STR A1						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
23,680.00	0.06	63,760.00	- 53,600,000.00	168,300,000.00	41,590,000.00	
23,680.00	4,249.00	67,220.00	- 72,450,000.00	167,800,000.00	41,590,000.00	
23,680.00	- 11,540.00	63,760.00	16,900,000.00	168,300,000.00	41,240,000.00	
23,680.00	- 11,540.00	63,760.00	16,900,000.00	168,300,000.00	41,240,000.00	
23,680.00	- 15,790.00	60,310.00	35,740,000.00	168,800,000.00	41,240,000.00	
22,990.00	0.07	68,800.00	- 75,630,000.00	161,300,000.00	38,370,000.00	
22,990.00	- 11,540.00	68,800.00	- 5,128,000.00	161,300,000.00	38,020,000.00	
22,990.00	- 11,540.00	68,800.00	- 5,128,000.00	161,300,000.00	38,020,000.00	
22,990.00	- 7,292.00	72,260.00	- 23,980,000.00	160,800,000.00	38,020,000.00	
23,680.00	0.07	70,750.00	- 63,730,000.00	167,600,000.00	41,590,000.00	
23,680.00	- 4,249.00	67,290.00	- 44,880,000.00	168,100,000.00	41,590,000.00	
23,680.00	4,249.00	74,200.00	- 82,580,000.00	167,100,000.00	41,590,000.00	
23,680.00	- 4,249.00	67,290.00	- 44,880,000.00	168,100,000.00	41,590,000.00	
23,680.00	- 11,540.00	70,750.00	6,765,000.00	167,600,000.00	41,240,000.00	
23,680.00	- 15,790.00	67,290.00	25,610,000.00	168,100,000.00	41,240,000.00	
22,990.00	0.08	75,790.00	- 85,760,000.00	160,500,000.00	38,370,000.00	
22,990.00	- 4,249.00	72,330.00	- 66,910,000.00	161,100,000.00	38,370,000.00	
23,680.00	0.06	54,420.00	- 49,020,000.00	168,300,000.00	41,590,000.00	
23,680.00	0.06	54,420.00	- 49,020,000.00	168,300,000.00	41,590,000.00	
23,680.00	- 4,249.00	50,960.00	- 30,180,000.00	168,800,000.00	41,590,000.00	
23,680.00	- 11,540.00	54,420.00	21,470,000.00	168,300,000.00	41,240,000.00	
23,680.00	- 11,540.00	54,420.00	21,470,000.00	168,300,000.00	41,240,000.00	
23,680.00	- 15,790.00	50,960.00	40,320,000.00	168,800,000.00	41,240,000.00	
23,680.00	- 7,292.00	57,880.00	2,625,000.00	167,800,000.00	41,240,000.00	
23,680.00	- 15,790.00	50,960.00	40,320,000.00	168,800,000.00	41,240,000.00	
23,680.00	- 7,292.00	57,880.00	2,625,000.00	167,800,000.00	41,240,000.00	
22,990.00	0.07	59,460.00	- 71,050,000.00	161,300,000.00	38,370,000.00	
22,990.00	4,249.00	62,920.00	- 89,900,000.00	160,800,000.00	38,370,000.00	
22,990.00	- 11,540.00	59,460.00	- 552,500.00	161,300,000.00	38,020,000.00	
22,990.00	- 11,540.00	59,460.00	- 552,500.00	161,300,000.00	38,020,000.00	
22,990.00	- 7,292.00	62,920.00	- 19,400,000.00	160,800,000.00	38,020,000.00	
22,990.00	- 15,790.00	56,000.00	18,300,000.00	161,800,000.00	38,020,000.00	
22,990.00	- 7,292.00	62,920.00	- 19,400,000.00	160,800,000.00	38,020,000.00	
23,680.00	0.06	61,400.00	- 59,160,000.00	167,600,000.00	41,590,000.00	
23,680.00	- 11,540.00	61,400.00	11,340,000.00	167,600,000.00	41,240,000.00	
23,680.00	- 15,790.00	57,950.00	30,190,000.00	168,100,000.00	41,240,000.00	
23,680.00	- 7,292.00	64,860.00	- 7,507,000.00	167,100,000.00	41,240,000.00	
22,990.00	0.08	66,440.00	- 81,180,000.00	160,500,000.00	38,370,000.00	
22,990.00	- 4,249.00	62,990.00	- 62,330,000.00	161,100,000.00	38,370,000.00	
22,990.00	- 11,540.00	66,440.00	- 10,680,000.00	160,500,000.00	38,020,000.00	
22,990.00	- 15,790.00	62,990.00	8,164,000.00	161,100,000.00	38,020,000.00	
22,990.00	- 7,292.00	69,900.00	- 29,530,000.00	160,000,000.00	38,020,000.00	
23,680.00	- 4,249.00	60,310.00	- 34,750,000.00	168,800,000.00	41,590,000.00	
23,680.00	- 11,540.00	63,760.00	16,900,000.00	168,300,000.00	41,240,000.00	
23,680.00	- 15,790.00	60,310.00	35,740,000.00	168,800,000.00	41,240,000.00	
23,680.00	- 7,292.00	67,220.00	- 1,951,000.00	167,800,000.00	41,240,000.00	
23,680.00	- 15,790.00	60,310.00	35,740,000.00	168,800,000.00	41,240,000.00	
23,680.00	- 7,292.00	67,220.00	- 1,951,000.00	167,800,000.00	41,240,000.00	
22,990.00	0.07	68,800.00	- 75,630,000.00	161,300,000.00	38,370,000.00	
22,990.00	- 4,249.00	65,350.00	- 56,780,000.00	161,800,000.00	38,370,000.00	
22,990.00	4,249.00	72,260.00	- 94,470,000.00	160,800,000.00	38,370,000.00	
22,990.00	- 4,249.00	65,350.00	- 56,780,000.00	161,800,000.00	38,370,000.00	
22,990.00	4,249.00	72,260.00	- 94,470,000.00	160,800,000.00	38,370,000.00	
22,990.00	- 11,540.00	68,800.00	- 5,128,000.00	161,300,000.00	38,020,000.00	
22,990.00	- 15,790.00	65,350.00	13,720,000.00	161,800,000.00	38,020,000.00	

GENERAL CONTRACTOR  IFICAV2		ALTA SORVEGLIANZA  GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 69 di 215

Reazioni vincolari - STR A1							
Rx	Ry	N	Mx	My	Mz		
N	N	N	Nmm	Nmm	Nmm		
22,990.00	-	7,292.00	72,260.00	-	23,980,000.00	160,800,000.00	38,020,000.00
22,990.00	-	15,790.00	65,350.00	-	13,720,000.00	161,800,000.00	38,020,000.00
22,990.00	-	7,292.00	72,260.00	-	23,980,000.00	160,800,000.00	38,020,000.00
23,680.00	-	4,249.00	74,200.00	-	82,580,000.00	167,100,000.00	41,590,000.00
23,680.00	-	11,540.00	70,750.00	-	6,765,000.00	167,600,000.00	41,240,000.00
23,680.00	-	7,292.00	74,200.00	-	12,080,000.00	167,100,000.00	41,240,000.00
23,680.00	-	15,790.00	67,290.00	-	25,610,000.00	168,100,000.00	41,240,000.00
23,680.00	-	7,292.00	74,200.00	-	12,080,000.00	167,100,000.00	41,240,000.00
22,990.00	-	0.08	75,790.00	-	85,760,000.00	160,500,000.00	38,370,000.00
22,990.00	-	4,249.00	72,330.00	-	66,910,000.00	161,100,000.00	38,370,000.00
22,990.00	-	11,540.00	75,790.00	-	15,260,000.00	160,500,000.00	38,020,000.00
22,990.00	-	7,292.00	79,240.00	-	34,110,000.00	160,000,000.00	38,020,000.00
22,990.00	-	15,790.00	72,330.00	-	3,588,000.00	161,100,000.00	38,020,000.00
22,990.00	-	7,292.00	79,240.00	-	34,110,000.00	160,000,000.00	38,020,000.00
23,680.00	-	0.06	54,420.00	-	49,020,000.00	168,300,000.00	41,590,000.00
23,680.00	-	0.07	58,780.00	-	62,070,000.00	168,300,000.00	41,590,000.00
23,680.00	-	0.07	58,780.00	-	62,070,000.00	168,300,000.00	41,590,000.00
23,680.00	-	4,249.00	50,960.00	-	30,180,000.00	168,800,000.00	41,590,000.00
23,680.00	-	4,249.00	50,960.00	-	30,180,000.00	168,800,000.00	41,590,000.00
23,680.00	-	4,249.00	57,880.00	-	67,870,000.00	167,800,000.00	41,590,000.00
23,680.00	-	4,249.00	55,320.00	-	43,220,000.00	168,800,000.00	41,590,000.00
23,680.00	-	11,540.00	54,420.00	-	21,470,000.00	168,300,000.00	41,240,000.00
23,680.00	-	11,540.00	58,780.00	-	8,426,000.00	168,300,000.00	41,240,000.00
23,680.00	-	11,540.00	58,780.00	-	8,426,000.00	168,300,000.00	41,240,000.00
23,680.00	-	15,790.00	55,320.00	-	27,270,000.00	168,800,000.00	41,240,000.00
23,680.00	-	7,292.00	62,230.00	-	10,420,000.00	167,800,000.00	41,240,000.00
23,680.00	-	15,790.00	55,320.00	-	27,270,000.00	168,800,000.00	41,240,000.00
23,680.00	-	7,292.00	62,230.00	-	10,420,000.00	167,800,000.00	41,240,000.00
22,990.00	-	0.07	59,460.00	-	71,050,000.00	161,300,000.00	38,370,000.00
22,990.00	-	0.07	59,460.00	-	71,050,000.00	161,300,000.00	38,370,000.00
22,990.00	-	0.08	63,820.00	-	84,100,000.00	161,300,000.00	38,370,000.00
22,990.00	-	0.08	63,820.00	-	84,100,000.00	161,300,000.00	38,370,000.00
22,990.00	-	4,249.00	56,000.00	-	52,200,000.00	161,800,000.00	38,370,000.00
22,990.00	-	4,249.00	56,000.00	-	52,200,000.00	161,800,000.00	38,370,000.00
22,990.00	-	4,249.00	60,360.00	-	65,250,000.00	161,800,000.00	38,370,000.00
22,990.00	-	4,249.00	67,270.00	-	102,900,000.00	160,800,000.00	38,370,000.00
22,990.00	-	11,540.00	63,820.00	-	13,600,000.00	161,300,000.00	38,020,000.00
22,990.00	-	11,540.00	63,820.00	-	13,600,000.00	161,300,000.00	38,020,000.00
22,990.00	-	15,790.00	56,000.00	-	18,300,000.00	161,800,000.00	38,020,000.00
22,990.00	-	7,292.00	62,920.00	-	19,400,000.00	160,800,000.00	38,020,000.00
22,990.00	-	15,790.00	60,360.00	-	5,249,000.00	161,800,000.00	38,020,000.00
22,990.00	-	7,292.00	67,270.00	-	32,450,000.00	160,800,000.00	38,020,000.00
22,990.00	-	15,790.00	60,360.00	-	5,249,000.00	161,800,000.00	38,020,000.00
22,990.00	-	7,292.00	67,270.00	-	32,450,000.00	160,800,000.00	38,020,000.00
23,680.00	-	4,249.00	64,860.00	-	78,000,000.00	167,100,000.00	41,590,000.00
23,680.00	-	4,249.00	62,300.00	-	53,350,000.00	168,100,000.00	41,590,000.00
23,680.00	-	4,249.00	69,220.00	-	91,050,000.00	167,100,000.00	41,590,000.00
23,680.00	-	4,249.00	62,300.00	-	53,350,000.00	168,100,000.00	41,590,000.00
23,680.00	-	11,540.00	61,400.00	-	11,340,000.00	167,600,000.00	41,240,000.00
23,680.00	-	11,540.00	65,760.00	-	1,706,000.00	167,600,000.00	41,240,000.00
23,680.00	-	11,540.00	65,760.00	-	1,706,000.00	167,600,000.00	41,240,000.00
23,680.00	-	15,790.00	62,300.00	-	17,140,000.00	168,100,000.00	41,240,000.00
23,680.00	-	7,292.00	69,220.00	-	20,550,000.00	167,100,000.00	41,240,000.00
23,680.00	-	15,790.00	62,300.00	-	17,140,000.00	168,100,000.00	41,240,000.00
23,680.00	-	7,292.00	69,220.00	-	20,550,000.00	167,100,000.00	41,240,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 70 di 215

<b>Reazioni vincolari - STR A1</b>						
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>	
22,990.00	0.09	70,800.00	- 94,230,000.00	160,500,000.00	38,370,000.00	
22,990.00	0.09	70,800.00	- 94,230,000.00	160,500,000.00	38,370,000.00	
22,990.00	- 11,540.00	70,800.00	- 23,730,000.00	160,500,000.00	38,020,000.00	
22,990.00	- 11,540.00	70,800.00	- 23,730,000.00	160,500,000.00	38,020,000.00	
22,990.00	- 15,790.00	62,990.00	8,164,000.00	161,100,000.00	38,020,000.00	
22,990.00	- 7,292.00	69,900.00	- 29,530,000.00	160,000,000.00	38,020,000.00	
22,990.00	- 15,790.00	62,990.00	8,164,000.00	161,100,000.00	38,020,000.00	
22,990.00	- 7,292.00	69,900.00	- 29,530,000.00	160,000,000.00	38,020,000.00	
22,990.00	- 15,790.00	67,340.00	- 4,883,000.00	161,100,000.00	38,020,000.00	
22,990.00	- 7,292.00	74,260.00	- 42,580,000.00	160,000,000.00	38,020,000.00	
22,990.00	- 15,790.00	67,340.00	- 4,883,000.00	161,100,000.00	38,020,000.00	
22,990.00	- 7,292.00	74,260.00	- 42,580,000.00	160,000,000.00	38,020,000.00	
23,680.00	0.06	63,760.00	- 53,600,000.00	168,300,000.00	41,590,000.00	
23,680.00	0.07	68,120.00	- 66,650,000.00	168,300,000.00	41,590,000.00	
23,680.00	- 4,249.00	64,660.00	- 47,800,000.00	168,800,000.00	41,590,000.00	
23,680.00	4,249.00	71,580.00	- 85,490,000.00	167,800,000.00	41,590,000.00	
23,680.00	- 11,540.00	68,120.00	3,850,000.00	168,300,000.00	41,240,000.00	
23,680.00	- 11,540.00	68,120.00	3,850,000.00	168,300,000.00	41,240,000.00	
23,680.00	- 7,292.00	67,220.00	- 1,951,000.00	167,800,000.00	41,240,000.00	
23,680.00	- 15,790.00	64,660.00	22,700,000.00	168,800,000.00	41,240,000.00	
23,680.00	- 7,292.00	71,580.00	- 15,000,000.00	167,800,000.00	41,240,000.00	
23,680.00	- 15,790.00	64,660.00	22,700,000.00	168,800,000.00	41,240,000.00	
23,680.00	- 7,292.00	71,580.00	- 15,000,000.00	167,800,000.00	41,240,000.00	
22,990.00	4,249.00	76,620.00	- 107,500,000.00	160,800,000.00	38,370,000.00	
22,990.00	- 11,540.00	73,160.00	- 18,170,000.00	161,300,000.00	38,020,000.00	
22,990.00	- 11,540.00	73,160.00	- 18,170,000.00	161,300,000.00	38,020,000.00	
22,990.00	- 15,790.00	65,350.00	13,720,000.00	161,800,000.00	38,020,000.00	
22,990.00	- 15,790.00	69,700.00	673,300.00	161,800,000.00	38,020,000.00	
22,990.00	- 7,292.00	76,620.00	- 37,020,000.00	160,800,000.00	38,020,000.00	
22,990.00	- 15,790.00	69,700.00	673,300.00	161,800,000.00	38,020,000.00	
22,990.00	- 7,292.00	76,620.00	- 37,020,000.00	160,800,000.00	38,020,000.00	
23,680.00	0.07	70,750.00	- 63,730,000.00	167,600,000.00	41,590,000.00	
23,680.00	0.08	75,100.00	- 76,780,000.00	167,600,000.00	41,590,000.00	
23,680.00	4,249.00	74,200.00	- 82,580,000.00	167,100,000.00	41,590,000.00	
23,680.00	4,249.00	78,560.00	- 95,630,000.00	167,100,000.00	41,590,000.00	
23,680.00	- 4,249.00	71,650.00	- 57,930,000.00	168,100,000.00	41,590,000.00	
23,680.00	4,249.00	78,560.00	- 95,630,000.00	167,100,000.00	41,590,000.00	
23,680.00	- 11,540.00	70,750.00	6,765,000.00	167,600,000.00	41,240,000.00	
23,680.00	- 11,540.00	75,100.00	- 6,281,000.00	167,600,000.00	41,240,000.00	
23,680.00	- 11,540.00	75,100.00	- 6,281,000.00	167,600,000.00	41,240,000.00	
23,680.00	- 15,790.00	67,290.00	25,610,000.00	168,100,000.00	41,240,000.00	
23,680.00	- 7,292.00	74,200.00	- 12,080,000.00	167,100,000.00	41,240,000.00	
23,680.00	- 15,790.00	71,650.00	12,570,000.00	168,100,000.00	41,240,000.00	
23,680.00	- 7,292.00	78,560.00	- 25,130,000.00	167,100,000.00	41,240,000.00	
23,680.00	- 15,790.00	71,650.00	12,570,000.00	168,100,000.00	41,240,000.00	
23,680.00	- 7,292.00	78,560.00	- 25,130,000.00	167,100,000.00	41,240,000.00	
22,990.00	0.09	80,140.00	- 98,800,000.00	160,500,000.00	38,370,000.00	
22,990.00	0.09	80,140.00	- 98,800,000.00	160,500,000.00	38,370,000.00	
22,990.00	4,249.00	79,240.00	- 104,600,000.00	160,000,000.00	38,370,000.00	
22,990.00	- 4,249.00	72,330.00	- 66,910,000.00	161,100,000.00	38,370,000.00	
22,990.00	4,249.00	79,240.00	- 104,600,000.00	160,000,000.00	38,370,000.00	
22,990.00	- 4,249.00	76,690.00	- 79,960,000.00	161,100,000.00	38,370,000.00	
22,990.00	- 11,540.00	75,790.00	- 15,260,000.00	160,500,000.00	38,020,000.00	
22,990.00	- 11,540.00	75,790.00	- 15,260,000.00	160,500,000.00	38,020,000.00	
22,990.00	- 11,540.00	80,140.00	- 28,310,000.00	160,500,000.00	38,020,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 71 di 215

Reazioni vincolari - STR A1									
Rx	Ry	N	Mx	My	Mz				
N	N	N	Nmm	Nmm	Nmm				
22,990.00	-	11,540.00	80,140.00	-	28,310,000.00	160,500,000.00	38,020,000.00		
22,990.00	-	15,790.00	72,330.00	3,588,000.00	161,100,000.00	161,100,000.00	38,020,000.00		
22,990.00	-	15,790.00	72,330.00	3,588,000.00	161,100,000.00	161,100,000.00	38,020,000.00		
22,990.00	-	7,292.00	79,240.00	-	34,110,000.00	160,000,000.00	38,020,000.00		
22,990.00	-	15,790.00	76,690.00	-	9,458,000.00	161,100,000.00	38,020,000.00		
22,990.00	-	7,292.00	83,600.00	-	47,150,000.00	160,000,000.00	38,020,000.00		
22,990.00	-	15,790.00	76,690.00	-	9,458,000.00	161,100,000.00	38,020,000.00		
22,990.00	-	7,292.00	83,600.00	-	47,150,000.00	160,000,000.00	38,020,000.00		
0.00	-	14,990.00	57,880.00	49,620,000.00	-	2,999,000.00	-	591,100.00	
14,210.00	-	19,240.00	54,420.00	68,470,000.00	100,000,000.00	100,000,000.00	24,360,000.00		
14,210.00	-	14,990.00	57,880.00	49,620,000.00	99,480,000.00	99,480,000.00	24,360,000.00		
-	693.00	-	19,240.00	59,460.00	46,450,000.00	-	9,508,000.00	-	3,810,000.00
-	693.00	-	23,490.00	56,000.00	65,290,000.00	-	8,985,000.00	-	3,810,000.00
13,510.00		0.06	59,460.00	-	71,050,000.00	92,970,000.00	21,740,000.00		
13,510.00	-	4,249.00	56,000.00	-	52,200,000.00	93,490,000.00	21,740,000.00		
13,510.00	-	23,490.00	56,000.00	65,290,000.00	93,490,000.00	93,490,000.00	21,140,000.00		
0.00	-	23,490.00	57,950.00	77,190,000.00	-	2,694,000.00	-	591,100.00	
0.00	-	14,990.00	64,860.00	39,490,000.00	-	3,741,000.00	-	591,100.00	
14,210.00	-	23,490.00	57,950.00	77,190,000.00	99,780,000.00	99,780,000.00	24,360,000.00		
-	693.00	-	19,240.00	66,440.00	36,310,000.00	-	10,250,000.00	-	3,810,000.00
-	693.00	-	23,490.00	62,990.00	55,160,000.00	-	9,727,000.00	-	3,810,000.00
13,510.00		0.07	66,440.00	-	81,180,000.00	92,230,000.00	21,740,000.00		
13,510.00	-	4,249.00	62,990.00	-	62,330,000.00	92,750,000.00	21,740,000.00		
13,510.00	-	19,240.00	66,440.00	36,310,000.00	92,230,000.00	92,230,000.00	21,140,000.00		
0.00	-	14,990.00	67,220.00	45,050,000.00	-	2,999,000.00	-	591,100.00	
14,210.00	-	14,990.00	67,220.00	45,050,000.00	99,480,000.00	99,480,000.00	24,360,000.00		
-	693.00	-	23,490.00	65,350.00	60,720,000.00	-	8,985,000.00	-	3,810,000.00
-	693.00	-	14,990.00	72,260.00	23,020,000.00	-	10,030,000.00	-	3,810,000.00
13,510.00		0.07	68,800.00	-	75,630,000.00	92,970,000.00	21,740,000.00		
13,510.00		4,249.00	72,260.00	-	94,470,000.00	92,450,000.00	21,740,000.00		
13,510.00	-	14,990.00	72,260.00	23,020,000.00	92,450,000.00	92,450,000.00	21,140,000.00		
0.00	-	19,240.00	70,750.00	53,760,000.00	-	3,218,000.00	-	591,100.00	
0.00	-	23,490.00	67,290.00	72,610,000.00	-	2,694,000.00	-	591,100.00	
14,210.00	-	14,990.00	74,200.00	34,920,000.00	98,740,000.00	98,740,000.00	24,360,000.00		
14,210.00	-	14,990.00	74,200.00	34,920,000.00	98,740,000.00	98,740,000.00	24,360,000.00		
-	693.00	-	14,990.00	79,240.00	12,890,000.00	-	10,770,000.00	-	3,810,000.00
13,510.00		0.07	75,790.00	-	85,760,000.00	92,230,000.00	21,740,000.00		
13,510.00	-	4,249.00	72,330.00	-	66,910,000.00	92,750,000.00	21,740,000.00		
13,510.00	-	4,249.00	79,240.00	-	104,600,000.00	91,700,000.00	21,740,000.00		
13,510.00	-	19,240.00	75,790.00	31,740,000.00	92,230,000.00	92,230,000.00	21,140,000.00		
13,510.00	-	23,490.00	72,330.00	50,590,000.00	92,750,000.00	92,750,000.00	21,140,000.00		
13,510.00	-	14,990.00	79,240.00	12,890,000.00	91,700,000.00	91,700,000.00	21,140,000.00		
13,510.00	-	23,490.00	72,330.00	50,590,000.00	92,750,000.00	92,750,000.00	21,140,000.00		
13,510.00	-	14,990.00	79,240.00	12,890,000.00	91,700,000.00	91,700,000.00	21,140,000.00		
0.00	-	19,240.00	54,420.00	68,470,000.00	-	2,475,000.00	-	591,100.00	
-	0.00	-	23,490.00	50,960.00	87,320,000.00	-	1,952,000.00	-	591,100.00
0.00	-	14,990.00	57,880.00	49,620,000.00	-	2,999,000.00	-	591,100.00	
-	0.00	-	23,490.00	50,960.00	87,320,000.00	-	1,952,000.00	-	591,100.00
0.00	-	14,990.00	57,880.00	49,620,000.00	-	2,999,000.00	-	591,100.00	
14,210.00	-	19,240.00	54,420.00	68,470,000.00	100,000,000.00	100,000,000.00	24,360,000.00		
14,210.00	-	19,240.00	54,420.00	68,470,000.00	100,000,000.00	100,000,000.00	24,360,000.00		
14,210.00	-	23,490.00	50,960.00	87,320,000.00	100,500,000.00	100,500,000.00	24,360,000.00		
14,210.00	-	14,990.00	57,880.00	49,620,000.00	99,480,000.00	99,480,000.00	24,360,000.00		
14,210.00	-	23,490.00	50,960.00	87,320,000.00	100,500,000.00	100,500,000.00	24,360,000.00		
14,210.00	-	14,990.00	57,880.00	49,620,000.00	99,480,000.00	99,480,000.00	24,360,000.00		

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 72 di 215

Reazioni vincolari - STR A1						
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>	
- 693.00	- 23,490.00	56,000.00	65,290,000.00	- 8,985,000.00	- 3,810,000.00	
- 693.00	- 14,990.00	62,920.00	27,600,000.00	- 10,030,000.00	- 3,810,000.00	
13,510.00	0.06	59,460.00	- 71,050,000.00	92,970,000.00	21,740,000.00	
13,510.00	- 4,249.00	56,000.00	- 52,200,000.00	93,490,000.00	21,740,000.00	
13,510.00	4,249.00	62,920.00	- 89,900,000.00	92,450,000.00	21,740,000.00	
13,510.00	- 19,240.00	59,460.00	46,450,000.00	92,970,000.00	21,140,000.00	
13,510.00	- 19,240.00	59,460.00	46,450,000.00	92,970,000.00	21,140,000.00	
13,510.00	- 23,490.00	56,000.00	65,290,000.00	93,490,000.00	21,140,000.00	
13,510.00	- 14,990.00	62,920.00	27,600,000.00	92,450,000.00	21,140,000.00	
13,510.00	- 23,490.00	56,000.00	65,290,000.00	93,490,000.00	21,140,000.00	
13,510.00	- 14,990.00	62,920.00	27,600,000.00	92,450,000.00	21,140,000.00	
0.00	- 14,990.00	64,860.00	39,490,000.00	- 3,741,000.00	- 591,100.00	
14,210.00	- 19,240.00	61,400.00	58,340,000.00	99,260,000.00	24,360,000.00	
14,210.00	- 19,240.00	61,400.00	58,340,000.00	99,260,000.00	24,360,000.00	
14,210.00	- 23,490.00	57,950.00	77,190,000.00	99,780,000.00	24,360,000.00	
14,210.00	- 14,990.00	64,860.00	39,490,000.00	98,740,000.00	24,360,000.00	
- 693.00	- 23,490.00	62,990.00	55,160,000.00	- 9,727,000.00	- 3,810,000.00	
13,510.00	0.07	66,440.00	- 81,180,000.00	92,230,000.00	21,740,000.00	
13,510.00	4,249.00	69,900.00	- 100,000,000.00	91,700,000.00	21,740,000.00	
13,510.00	- 4,249.00	62,990.00	- 62,330,000.00	92,750,000.00	21,740,000.00	
13,510.00	4,249.00	69,900.00	- 100,000,000.00	91,700,000.00	21,740,000.00	
13,510.00	- 19,240.00	66,440.00	36,310,000.00	92,230,000.00	21,140,000.00	
13,510.00	- 23,490.00	62,990.00	55,160,000.00	92,750,000.00	21,140,000.00	
13,510.00	- 14,990.00	69,900.00	17,470,000.00	91,700,000.00	21,140,000.00	
13,510.00	- 23,490.00	62,990.00	55,160,000.00	92,750,000.00	21,140,000.00	
13,510.00	- 14,990.00	69,900.00	17,470,000.00	91,700,000.00	21,140,000.00	
0.00	- 19,240.00	63,760.00	63,890,000.00	- 2,475,000.00	- 591,100.00	
0.00	- 14,990.00	67,220.00	45,050,000.00	- 2,999,000.00	- 591,100.00	
14,210.00	- 19,240.00	63,760.00	63,890,000.00	100,000,000.00	24,360,000.00	
14,210.00	- 23,490.00	60,310.00	82,740,000.00	100,500,000.00	24,360,000.00	
14,210.00	- 14,990.00	67,220.00	45,050,000.00	99,480,000.00	24,360,000.00	
- 693.00	- 19,240.00	68,800.00	41,870,000.00	- 9,508,000.00	- 3,810,000.00	
- 693.00	- 14,990.00	72,260.00	23,020,000.00	- 10,030,000.00	- 3,810,000.00	
13,510.00	0.07	68,800.00	- 75,630,000.00	92,970,000.00	21,740,000.00	
13,510.00	- 4,249.00	65,350.00	- 56,780,000.00	93,490,000.00	21,740,000.00	
13,510.00	- 4,249.00	65,350.00	- 56,780,000.00	93,490,000.00	21,740,000.00	
13,510.00	4,249.00	72,260.00	- 94,470,000.00	92,450,000.00	21,740,000.00	
13,510.00	- 19,240.00	68,800.00	41,870,000.00	92,970,000.00	21,140,000.00	
13,510.00	- 19,240.00	68,800.00	41,870,000.00	92,970,000.00	21,140,000.00	
13,510.00	- 23,490.00	65,350.00	60,720,000.00	93,490,000.00	21,140,000.00	
13,510.00	- 14,990.00	72,260.00	23,020,000.00	92,450,000.00	21,140,000.00	
0.00	- 19,240.00	70,750.00	53,760,000.00	- 3,218,000.00	- 591,100.00	
0.00	- 23,490.00	67,290.00	72,610,000.00	- 2,694,000.00	- 591,100.00	
0.00	- 14,990.00	74,200.00	34,920,000.00	- 3,741,000.00	- 591,100.00	
14,210.00	- 19,240.00	70,750.00	53,760,000.00	99,260,000.00	24,360,000.00	
14,210.00	- 23,490.00	67,290.00	72,610,000.00	99,780,000.00	24,360,000.00	
14,210.00	- 23,490.00	67,290.00	72,610,000.00	99,780,000.00	24,360,000.00	
14,210.00	- 14,990.00	74,200.00	34,920,000.00	98,740,000.00	24,360,000.00	
- 693.00	- 23,490.00	72,330.00	50,590,000.00	- 9,727,000.00	- 3,810,000.00	
13,510.00	0.07	75,790.00	- 85,760,000.00	92,230,000.00	21,740,000.00	
13,510.00	- 4,249.00	72,330.00	- 66,910,000.00	92,750,000.00	21,740,000.00	
13,510.00	4,249.00	79,240.00	- 104,600,000.00	91,700,000.00	21,740,000.00	
13,510.00	- 19,240.00	75,790.00	31,740,000.00	92,230,000.00	21,140,000.00	
13,510.00	- 23,490.00	72,330.00	50,590,000.00	92,750,000.00	21,140,000.00	
13,510.00	- 14,990.00	79,240.00	12,890,000.00	91,700,000.00	21,140,000.00	



<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 73 di 215

Reazioni vincolari - STR A1									
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>				
0.00	-	19,240.00	54,420.00	68,470,000.00	-	2,475,000.00	-	591,100.00	
0.00	-	23,490.00	55,320.00	74,270,000.00	-	1,952,000.00	-	591,100.00	
14,210.00	-	19,240.00	58,780.00	55,420,000.00	100,000,000.00			24,360,000.00	
14,210.00	-	19,240.00	58,780.00	55,420,000.00	100,000,000.00			24,360,000.00	
14,210.00	-	23,490.00	50,960.00	87,320,000.00	100,500,000.00			24,360,000.00	
14,210.00	-	23,490.00	55,320.00	74,270,000.00	100,500,000.00			24,360,000.00	
14,210.00	-	14,990.00	62,230.00	36,580,000.00	99,480,000.00			24,360,000.00	
14,210.00	-	23,490.00	55,320.00	74,270,000.00	100,500,000.00			24,360,000.00	
14,210.00	-	14,990.00	62,230.00	36,580,000.00	99,480,000.00			24,360,000.00	
-	693.00	-	14,990.00	62,920.00	27,600,000.00	-	10,030,000.00	-	3,810,000.00
-	693.00	-	23,490.00	60,360.00	52,250,000.00	-	8,985,000.00	-	3,810,000.00
-	693.00	-	14,990.00	67,270.00	14,550,000.00	-	10,030,000.00	-	3,810,000.00
13,510.00		0.06	59,460.00	-	71,050,000.00	92,970,000.00			21,740,000.00
13,510.00		0.07	63,820.00	-	84,100,000.00	92,970,000.00			21,740,000.00
13,510.00		0.07	63,820.00	-	84,100,000.00	92,970,000.00			21,740,000.00
13,510.00		4,249.00	62,920.00	-	89,900,000.00	92,450,000.00			21,740,000.00
13,510.00	-	4,249.00	56,000.00	-	52,200,000.00	93,490,000.00			21,740,000.00
13,510.00		4,249.00	62,920.00	-	89,900,000.00	92,450,000.00			21,740,000.00
13,510.00	-	4,249.00	60,360.00	-	65,250,000.00	93,490,000.00			21,740,000.00
13,510.00		4,249.00	67,270.00	-	102,900,000.00	92,450,000.00			21,740,000.00
13,510.00	-	4,249.00	60,360.00	-	65,250,000.00	93,490,000.00			21,740,000.00
13,510.00		4,249.00	67,270.00	-	102,900,000.00	92,450,000.00			21,740,000.00
13,510.00	-	19,240.00	59,460.00	46,450,000.00	92,970,000.00				21,140,000.00
13,510.00	-	19,240.00	63,820.00	33,400,000.00	92,970,000.00				21,140,000.00
13,510.00	-	19,240.00	63,820.00	33,400,000.00	92,970,000.00				21,140,000.00
13,510.00	-	14,990.00	62,920.00	27,600,000.00	92,450,000.00				21,140,000.00
13,510.00	-	23,490.00	60,360.00	52,250,000.00	93,490,000.00				21,140,000.00
13,510.00	-	14,990.00	67,270.00	14,550,000.00	92,450,000.00				21,140,000.00
13,510.00	-	23,490.00	60,360.00	52,250,000.00	93,490,000.00				21,140,000.00
13,510.00	-	14,990.00	67,270.00	14,550,000.00	92,450,000.00				21,140,000.00
0.00	-	19,240.00	61,400.00	58,340,000.00	-	3,218,000.00	-	591,100.00	
0.00	-	23,490.00	62,300.00	64,140,000.00	-	2,694,000.00	-	591,100.00	
0.00	-	14,990.00	69,220.00	26,440,000.00	-	3,741,000.00	-	591,100.00	
0.00	-	23,490.00	62,300.00	64,140,000.00	-	2,694,000.00	-	591,100.00	
0.00	-	14,990.00	69,220.00	26,440,000.00	-	3,741,000.00	-	591,100.00	
14,210.00	-	19,240.00	61,400.00	58,340,000.00	99,260,000.00				24,360,000.00
14,210.00	-	19,240.00	65,760.00	45,290,000.00	99,260,000.00				24,360,000.00
14,210.00	-	19,240.00	65,760.00	45,290,000.00	99,260,000.00				24,360,000.00
14,210.00	-	23,490.00	57,950.00	77,190,000.00	99,780,000.00				24,360,000.00
14,210.00	-	14,990.00	64,860.00	39,490,000.00	98,740,000.00				24,360,000.00
14,210.00	-	14,990.00	64,860.00	39,490,000.00	98,740,000.00				24,360,000.00
14,210.00	-	23,490.00	62,300.00	64,140,000.00	99,780,000.00				24,360,000.00
14,210.00	-	14,990.00	69,220.00	26,440,000.00	98,740,000.00				24,360,000.00
14,210.00	-	23,490.00	62,300.00	64,140,000.00	99,780,000.00				24,360,000.00
14,210.00	-	14,990.00	69,220.00	26,440,000.00	98,740,000.00				24,360,000.00
-	693.00	-	14,990.00	74,260.00	4,420,000.00	-	10,770,000.00	-	3,810,000.00
13,510.00		0.07	66,440.00	-	81,180,000.00	92,230,000.00			21,740,000.00
13,510.00		0.08	70,800.00	-	94,230,000.00	92,230,000.00			21,740,000.00
13,510.00		0.08	70,800.00	-	94,230,000.00	92,230,000.00			21,740,000.00
13,510.00	-	4,249.00	62,990.00	-	62,330,000.00	92,750,000.00			21,740,000.00
13,510.00		4,249.00	69,900.00	-	100,000,000.00	91,700,000.00			21,740,000.00
13,510.00	-	4,249.00	67,340.00	-	75,380,000.00	92,750,000.00			21,740,000.00
13,510.00		4,249.00	74,260.00	-	113,100,000.00	91,700,000.00			21,740,000.00
13,510.00	-	4,249.00	67,340.00	-	75,380,000.00	92,750,000.00			21,740,000.00
13,510.00		4,249.00	74,260.00	-	113,100,000.00	91,700,000.00			21,740,000.00

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 74 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
13,510.00	-	19,240.00	66,440.00	36,310,000.00	92,230,000.00	21,140,000.00				
13,510.00	-	19,240.00	70,800.00	23,270,000.00	92,230,000.00	21,140,000.00				
13,510.00	-	19,240.00	70,800.00	23,270,000.00	92,230,000.00	21,140,000.00				
13,510.00	-	23,490.00	62,990.00	55,160,000.00	92,750,000.00	21,140,000.00				
13,510.00	-	14,990.00	69,900.00	17,470,000.00	91,700,000.00	21,140,000.00				
13,510.00	-	23,490.00	67,340.00	42,120,000.00	92,750,000.00	21,140,000.00				
13,510.00	-	14,990.00	74,260.00	4,420,000.00	91,700,000.00	21,140,000.00				
13,510.00	-	23,490.00	67,340.00	42,120,000.00	92,750,000.00	21,140,000.00				
13,510.00	-	14,990.00	74,260.00	4,420,000.00	91,700,000.00	21,140,000.00				
0.00	-	19,240.00	68,120.00	50,850,000.00	- 2,475,000.00	- 591,100.00				
0.00	-	19,240.00	68,120.00	50,850,000.00	- 2,475,000.00	- 591,100.00				
-	0.00	- 23,490.00	60,310.00	82,740,000.00	- 1,952,000.00	- 591,100.00				
0.00	-	14,990.00	67,220.00	45,050,000.00	- 2,999,000.00	- 591,100.00				
0.00	-	23,490.00	64,660.00	69,700,000.00	- 1,952,000.00	- 591,100.00				
0.00	-	23,490.00	64,660.00	69,700,000.00	- 1,952,000.00	- 591,100.00				
14,210.00	-	19,240.00	63,760.00	63,890,000.00	100,000,000.00	24,360,000.00				
14,210.00	-	19,240.00	63,760.00	63,890,000.00	100,000,000.00	24,360,000.00				
14,210.00	-	19,240.00	68,120.00	50,850,000.00	100,000,000.00	24,360,000.00				
14,210.00	-	19,240.00	68,120.00	50,850,000.00	100,000,000.00	24,360,000.00				
14,210.00	-	23,490.00	60,310.00	82,740,000.00	100,500,000.00	24,360,000.00				
14,210.00	-	14,990.00	67,220.00	45,050,000.00	99,480,000.00	24,360,000.00				
14,210.00	-	23,490.00	60,310.00	82,740,000.00	100,500,000.00	24,360,000.00				
14,210.00	-	23,490.00	64,660.00	69,700,000.00	100,500,000.00	24,360,000.00				
14,210.00	-	14,990.00	71,580.00	32,000,000.00	99,480,000.00	24,360,000.00				
14,210.00	-	23,490.00	64,660.00	69,700,000.00	100,500,000.00	24,360,000.00				
14,210.00	-	14,990.00	71,580.00	32,000,000.00	99,480,000.00	24,360,000.00				
-	693.00	- 19,240.00	68,800.00	41,870,000.00	- 9,508,000.00	- 3,810,000.00				
-	693.00	- 19,240.00	73,160.00	28,820,000.00	- 9,508,000.00	- 3,810,000.00				
-	693.00	- 23,490.00	65,350.00	60,720,000.00	- 8,985,000.00	- 3,810,000.00				
-	693.00	- 23,490.00	69,700.00	47,670,000.00	- 8,985,000.00	- 3,810,000.00				
-	693.00	- 14,990.00	76,620.00	9,976,000.00	- 10,030,000.00	- 3,810,000.00				
-	693.00	- 14,990.00	76,620.00	9,976,000.00	- 10,030,000.00	- 3,810,000.00				
13,510.00		0.07	68,800.00	- 75,630,000.00	92,970,000.00	21,740,000.00				
13,510.00		0.08	73,160.00	- 88,670,000.00	92,970,000.00	21,740,000.00				
13,510.00		0.08	73,160.00	- 88,670,000.00	92,970,000.00	21,740,000.00				
13,510.00	-	4,249.00	65,350.00	- 56,780,000.00	93,490,000.00	21,740,000.00				
13,510.00		4,249.00	72,260.00	- 94,470,000.00	92,450,000.00	21,740,000.00				
13,510.00	-	4,249.00	69,700.00	- 69,820,000.00	93,490,000.00	21,740,000.00				
13,510.00		4,249.00	76,620.00	- 107,500,000.00	92,450,000.00	21,740,000.00				
13,510.00	-	4,249.00	69,700.00	- 69,820,000.00	93,490,000.00	21,740,000.00				
13,510.00		4,249.00	76,620.00	- 107,500,000.00	92,450,000.00	21,740,000.00				
13,510.00	-	19,240.00	68,800.00	41,870,000.00	92,970,000.00	21,140,000.00				
13,510.00	-	19,240.00	73,160.00	28,820,000.00	92,970,000.00	21,140,000.00				
13,510.00	-	19,240.00	73,160.00	28,820,000.00	92,970,000.00	21,140,000.00				
13,510.00	-	23,490.00	65,350.00	60,720,000.00	93,490,000.00	21,140,000.00				
13,510.00	-	14,990.00	72,260.00	23,020,000.00	92,450,000.00	21,140,000.00				
13,510.00	-	23,490.00	65,350.00	60,720,000.00	93,490,000.00	21,140,000.00				
13,510.00	-	23,490.00	69,700.00	47,670,000.00	93,490,000.00	21,140,000.00				
13,510.00	-	14,990.00	76,620.00	9,976,000.00	92,450,000.00	21,140,000.00				
13,510.00	-	23,490.00	69,700.00	47,670,000.00	93,490,000.00	21,140,000.00				
13,510.00	-	14,990.00	76,620.00	9,976,000.00	92,450,000.00	21,140,000.00				
0.00	-	14,990.00	74,200.00	34,920,000.00	- 3,741,000.00	- 591,100.00				
0.00	-	14,990.00	74,200.00	34,920,000.00	- 3,741,000.00	- 591,100.00				
0.00	-	23,490.00	71,650.00	59,560,000.00	- 2,694,000.00	- 591,100.00				
14,210.00	-	19,240.00	70,750.00	53,760,000.00	99,260,000.00	24,360,000.00				

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 75 di 215

<b>Reazioni vincolari - STR A1</b>										
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>					
14,210.00	-	19,240.00	70,750.00	53,760,000.00	99,260,000.00	24,360,000.00				
14,210.00	-	19,240.00	75,100.00	40,720,000.00	99,260,000.00	24,360,000.00				
14,210.00	-	19,240.00	75,100.00	40,720,000.00	99,260,000.00	24,360,000.00				
14,210.00	-	23,490.00	67,290.00	72,610,000.00	99,780,000.00	24,360,000.00				
14,210.00	-	23,490.00	71,650.00	59,560,000.00	99,780,000.00	24,360,000.00				
14,210.00	-	14,990.00	78,560.00	21,870,000.00	98,740,000.00	24,360,000.00				
14,210.00	-	23,490.00	71,650.00	59,560,000.00	99,780,000.00	24,360,000.00				
14,210.00	-	14,990.00	78,560.00	21,870,000.00	98,740,000.00	24,360,000.00				
-	693.00	-	19,240.00	75,790.00	31,740,000.00	-	3,810,000.00			
-	693.00	-	19,240.00	80,140.00	18,690,000.00	-	3,810,000.00			
-	693.00	-	14,990.00	79,240.00	12,890,000.00	-	3,810,000.00			
-	693.00	-	23,490.00	76,690.00	37,540,000.00	-	3,810,000.00			
-	693.00	-	14,990.00	83,600.00	-	155,800.00	-	3,810,000.00		
-	693.00	-	23,490.00	76,690.00	37,540,000.00	-	9,727,000.00	-	3,810,000.00	
-	693.00	-	14,990.00	83,600.00	-	155,800.00	-	10,770,000.00	-	3,810,000.00
13,510.00		0.07	75,790.00	-	85,760,000.00	92,230,000.00	21,740,000.00			
13,510.00		0.08	80,140.00	-	98,800,000.00	92,230,000.00	21,740,000.00			
13,510.00		0.08	80,140.00	-	98,800,000.00	92,230,000.00	21,740,000.00			
13,510.00	-	4,249.00	72,330.00	-	66,910,000.00	92,750,000.00	21,740,000.00			
13,510.00	-	4,249.00	79,240.00	-	104,600,000.00	91,700,000.00	21,740,000.00			
13,510.00	-	4,249.00	76,690.00	-	79,960,000.00	92,750,000.00	21,740,000.00			
13,510.00	-	4,249.00	83,600.00	-	117,700,000.00	91,700,000.00	21,740,000.00			
13,510.00	-	4,249.00	76,690.00	-	79,960,000.00	92,750,000.00	21,740,000.00			
13,510.00	-	4,249.00	83,600.00	-	117,700,000.00	91,700,000.00	21,740,000.00			
13,510.00	-	19,240.00	75,790.00	31,740,000.00	92,230,000.00	21,140,000.00				
13,510.00	-	19,240.00	80,140.00	18,690,000.00	92,230,000.00	21,140,000.00				
13,510.00	-	19,240.00	80,140.00	18,690,000.00	92,230,000.00	21,140,000.00				
13,510.00	-	23,490.00	76,690.00	37,540,000.00	92,750,000.00	21,140,000.00				
13,510.00	-	14,990.00	83,600.00	-	156,000.00	91,700,000.00	21,140,000.00			
13,510.00	-	23,490.00	76,690.00	37,540,000.00	92,750,000.00	21,140,000.00				
13,510.00	-	14,990.00	83,600.00	-	156,000.00	91,700,000.00	21,140,000.00			
-	14,210.00	-	23,490.00	50,960.00	87,320,000.00	-	104,400,000.00	-	25,550,000.00	
-	14,900.00	-	4,249.00	56,000.00	52,200,000.00	-	111,500,000.00	-	28,170,000.00	
-	14,900.00	-	4,249.00	62,920.00	89,900,000.00	-	112,500,000.00	-	28,170,000.00	
-	14,900.00	-	4,249.00	62,920.00	89,900,000.00	-	112,500,000.00	-	28,170,000.00	
-	14,900.00	-	19,240.00	59,460.00	46,450,000.00	-	112,000,000.00	-	28,760,000.00	
-	0.00	-	23,490.00	57,950.00	77,190,000.00	-	2,694,000.00	-	591,100.00	
-	0.00	-	14,990.00	64,860.00	39,490,000.00	-	3,741,000.00	-	591,100.00	
-	14,210.00	-	19,240.00	61,400.00	58,340,000.00	-	105,700,000.00	-	25,550,000.00	
-	14,210.00	-	19,240.00	61,400.00	58,340,000.00	-	105,700,000.00	-	25,550,000.00	
-	14,210.00	-	14,990.00	64,860.00	39,490,000.00	-	106,200,000.00	-	25,550,000.00	
-	14,210.00	-	23,490.00	57,950.00	77,190,000.00	-	105,200,000.00	-	25,550,000.00	
-	14,210.00	-	14,990.00	64,860.00	39,490,000.00	-	106,200,000.00	-	25,550,000.00	
-	14,900.00	-	0.04	66,440.00	-	81,180,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00	-	0.04	66,440.00	-	81,180,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	62,990.00	-	62,330,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	69,900.00	-	100,000,000.00	-	113,300,000.00	-	28,170,000.00
-	14,900.00	-	23,490.00	62,990.00	55,160,000.00	-	112,200,000.00	-	28,760,000.00	
-	14,900.00	-	23,490.00	62,990.00	55,160,000.00	-	112,200,000.00	-	28,760,000.00	
-	14,900.00	-	14,990.00	69,900.00	17,470,000.00	-	113,300,000.00	-	28,760,000.00	
-	0.00	-	19,240.00	63,760.00	63,890,000.00	-	2,475,000.00	-	591,100.00	
-	0.00	-	19,240.00	63,760.00	63,890,000.00	-	2,475,000.00	-	591,100.00	
-	14,210.00	-	19,240.00	63,760.00	63,890,000.00	-	105,000,000.00	-	25,550,000.00	
-	14,900.00	-	0.04	68,800.00	-	75,620,000.00	-	112,000,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	65,350.00	-	56,780,000.00	-	111,500,000.00	-	28,170,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 76 di 215

Reazioni vincolari - STR A1											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	14,900.00		4,249.00		72,260.00	-	94,470,000.00	-	112,500,000.00	-	28,170,000.00
-	14,900.00		14,990.00		72,260.00		23,020,000.00	-	112,500,000.00	-	28,760,000.00
-	14,210.00		19,240.00		70,750.00		53,760,000.00	-	105,700,000.00	-	25,550,000.00
-	14,210.00		19,240.00		70,750.00		53,760,000.00	-	105,700,000.00	-	25,550,000.00
-	14,210.00		23,490.00		67,290.00		72,610,000.00	-	105,200,000.00	-	25,550,000.00
-	14,210.00		14,990.00		74,200.00		34,920,000.00	-	106,200,000.00	-	25,550,000.00
-	693.00		19,240.00		75,790.00		31,740,000.00	-	10,250,000.00	-	3,810,000.00
-	693.00		23,490.00		72,330.00		50,590,000.00	-	9,727,000.00	-	3,810,000.00
-	14,900.00		4,249.00		79,240.00	-	104,600,000.00	-	113,300,000.00	-	28,170,000.00
-	14,900.00		4,249.00		79,240.00	-	104,600,000.00	-	113,300,000.00	-	28,170,000.00
-	14,900.00		19,240.00		75,790.00		31,740,000.00	-	112,700,000.00	-	28,760,000.00
-	14,900.00		23,490.00		72,330.00		50,590,000.00	-	112,200,000.00	-	28,760,000.00
-	14,900.00		23,490.00		72,330.00		50,590,000.00	-	112,200,000.00	-	28,760,000.00
	0.00		19,240.00		54,420.00		68,470,000.00	-	2,475,000.00	-	591,100.00
-	14,210.00		19,240.00		54,420.00		68,470,000.00	-	105,000,000.00	-	25,550,000.00
-	14,210.00		19,240.00		54,420.00		68,470,000.00	-	105,000,000.00	-	25,550,000.00
-	14,210.00		14,990.00		57,880.00		49,620,000.00	-	105,500,000.00	-	25,550,000.00
-	14,210.00		23,490.00		50,960.00		87,320,000.00	-	104,400,000.00	-	25,550,000.00
-	14,210.00		14,990.00		57,880.00		49,620,000.00	-	105,500,000.00	-	25,550,000.00
-	693.00		19,240.00		59,460.00		46,450,000.00	-	9,508,000.00	-	3,810,000.00
-	693.00		19,240.00		59,460.00		46,450,000.00	-	9,508,000.00	-	3,810,000.00
-	693.00		23,490.00		56,000.00		65,290,000.00	-	8,985,000.00	-	3,810,000.00
-	693.00		14,990.00		62,920.00		27,600,000.00	-	10,030,000.00	-	3,810,000.00
-	14,900.00		0.04		59,460.00	-	71,050,000.00	-	112,000,000.00	-	28,170,000.00
-	14,900.00		0.04		59,460.00	-	71,050,000.00	-	112,000,000.00	-	28,170,000.00
-	14,900.00		4,249.00		56,000.00	-	52,200,000.00	-	111,500,000.00	-	28,170,000.00
-	14,900.00		4,249.00		62,920.00	-	89,900,000.00	-	112,500,000.00	-	28,170,000.00
-	14,900.00		19,240.00		59,460.00		46,450,000.00	-	112,000,000.00	-	28,760,000.00
-	14,900.00		19,240.00		59,460.00		46,450,000.00	-	112,000,000.00	-	28,760,000.00
-	14,900.00		23,490.00		56,000.00		65,290,000.00	-	111,500,000.00	-	28,760,000.00
-	14,900.00		23,490.00		56,000.00		65,290,000.00	-	111,500,000.00	-	28,760,000.00
-	14,900.00		14,990.00		62,920.00		27,600,000.00	-	112,500,000.00	-	28,760,000.00
	0.00		19,240.00		61,400.00		58,340,000.00	-	3,218,000.00	-	591,100.00
	0.00		23,490.00		57,950.00		77,190,000.00	-	2,694,000.00	-	591,100.00
-	14,210.00		19,240.00		61,400.00		58,340,000.00	-	105,700,000.00	-	25,550,000.00
-	14,210.00		23,490.00		57,950.00		77,190,000.00	-	105,200,000.00	-	25,550,000.00
-	14,210.00		14,990.00		64,860.00		39,490,000.00	-	106,200,000.00	-	25,550,000.00
-	693.00		19,240.00		66,440.00		36,310,000.00	-	10,250,000.00	-	3,810,000.00
-	693.00		19,240.00		66,440.00		36,310,000.00	-	10,250,000.00	-	3,810,000.00
-	693.00		23,490.00		62,990.00		55,160,000.00	-	9,727,000.00	-	3,810,000.00
-	693.00		14,990.00		69,900.00		17,470,000.00	-	10,770,000.00	-	3,810,000.00
-	14,900.00		0.04		66,440.00	-	81,180,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00		4,249.00		62,990.00	-	62,330,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		62,990.00	-	62,330,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		69,900.00	-	100,000,000.00	-	113,300,000.00	-	28,170,000.00
-	14,900.00		19,240.00		66,440.00		36,310,000.00	-	112,700,000.00	-	28,760,000.00
-	14,900.00		23,490.00		62,990.00		55,160,000.00	-	112,200,000.00	-	28,760,000.00
-	14,900.00		14,990.00		69,900.00		17,470,000.00	-	113,300,000.00	-	28,760,000.00
-	0.00		23,490.00		60,310.00		82,740,000.00	-	1,952,000.00	-	591,100.00
-	0.00		23,490.00		60,310.00		82,740,000.00	-	1,952,000.00	-	591,100.00
-	14,210.00		19,240.00		63,760.00		63,890,000.00	-	105,000,000.00	-	25,550,000.00
-	14,210.00		19,240.00		63,760.00		63,890,000.00	-	105,000,000.00	-	25,550,000.00
-	14,210.00		23,490.00		60,310.00		82,740,000.00	-	104,400,000.00	-	25,550,000.00
-	14,210.00		14,990.00		67,220.00		45,050,000.00	-	105,500,000.00	-	25,550,000.00
-	14,210.00		23,490.00		60,310.00		82,740,000.00	-	104,400,000.00	-	25,550,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17 Lotto 10 Codifica Documento EI2CLOC000006 Rev. A Foglio 77 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,210.00	-	14,990.00		67,220.00	45,050,000.00	-	105,500,000.00	-	25,550,000.00
-	693.00	-	19,240.00		68,800.00	41,870,000.00	-	9,508,000.00	-	3,810,000.00
-	693.00	-	23,490.00		65,350.00	60,720,000.00	-	8,985,000.00	-	3,810,000.00
-	14,900.00		0.04		68,800.00	- 75,620,000.00	-	112,000,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		65,350.00	- 56,780,000.00	-	111,500,000.00	-	28,170,000.00
-	14,900.00		4,249.00		72,260.00	- 94,470,000.00	-	112,500,000.00	-	28,170,000.00
-	14,900.00	-	19,240.00		68,800.00	41,870,000.00	-	112,000,000.00	-	28,760,000.00
-	14,900.00	-	23,490.00		65,350.00	60,720,000.00	-	111,500,000.00	-	28,760,000.00
-	14,900.00	-	14,990.00		72,260.00	23,020,000.00	-	112,500,000.00	-	28,760,000.00
-	14,210.00	-	19,240.00		70,750.00	53,760,000.00	-	105,700,000.00	-	25,550,000.00
-	14,210.00	-	23,490.00		67,290.00	72,610,000.00	-	105,200,000.00	-	25,550,000.00
-	14,210.00	-	14,990.00		74,200.00	34,920,000.00	-	106,200,000.00	-	25,550,000.00
-	693.00	-	19,240.00		75,790.00	31,740,000.00	-	10,250,000.00	-	3,810,000.00
-	693.00	-	23,490.00		72,330.00	50,590,000.00	-	9,727,000.00	-	3,810,000.00
-	693.00	-	14,990.00		79,240.00	12,890,000.00	-	10,770,000.00	-	3,810,000.00
-	14,900.00		0.05		75,790.00	- 85,760,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		72,330.00	- 66,910,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		79,240.00	- 104,600,000.00	-	113,300,000.00	-	28,170,000.00
-	14,900.00	-	19,240.00		75,790.00	31,740,000.00	-	112,700,000.00	-	28,760,000.00
-	14,900.00	-	14,990.00		79,240.00	12,890,000.00	-	113,300,000.00	-	28,760,000.00
-	14,900.00	-	23,490.00		72,330.00	50,590,000.00	-	112,200,000.00	-	28,760,000.00
-	14,900.00	-	14,990.00		79,240.00	12,890,000.00	-	113,300,000.00	-	28,760,000.00
	0.00	-	19,240.00		58,780.00	55,420,000.00	-	2,475,000.00	-	591,100.00
	0.00	-	19,240.00		58,780.00	55,420,000.00	-	2,475,000.00	-	591,100.00
-	0.00	-	23,490.00		50,960.00	87,320,000.00	-	1,952,000.00	-	591,100.00
	0.00	-	14,990.00		62,230.00	36,580,000.00	-	2,999,000.00	-	591,100.00
-	0.00	-	23,490.00		55,320.00	74,270,000.00	-	1,952,000.00	-	591,100.00
	0.00	-	14,990.00		62,230.00	36,580,000.00	-	2,999,000.00	-	591,100.00
-	14,210.00	-	19,240.00		54,420.00	68,470,000.00	-	105,000,000.00	-	25,550,000.00
-	14,210.00	-	19,240.00		58,780.00	55,420,000.00	-	105,000,000.00	-	25,550,000.00
-	14,210.00	-	19,240.00		58,780.00	55,420,000.00	-	105,000,000.00	-	25,550,000.00
-	14,210.00	-	23,490.00		50,960.00	87,320,000.00	-	104,400,000.00	-	25,550,000.00
-	14,210.00	-	14,990.00		57,880.00	49,620,000.00	-	105,500,000.00	-	25,550,000.00
-	14,210.00	-	23,490.00		55,320.00	74,270,000.00	-	104,400,000.00	-	25,550,000.00
-	14,210.00	-	14,990.00		62,230.00	36,580,000.00	-	105,500,000.00	-	25,550,000.00
-	14,210.00	-	23,490.00		55,320.00	74,270,000.00	-	104,400,000.00	-	25,550,000.00
-	14,210.00	-	14,990.00		62,230.00	36,580,000.00	-	105,500,000.00	-	25,550,000.00
-	693.00	-	19,240.00		63,820.00	33,400,000.00	-	9,508,000.00	-	3,810,000.00
-	693.00	-	19,240.00		63,820.00	33,400,000.00	-	9,508,000.00	-	3,810,000.00
-	693.00	-	23,490.00		60,360.00	52,250,000.00	-	8,985,000.00	-	3,810,000.00
-	693.00	-	14,990.00		67,270.00	14,550,000.00	-	10,030,000.00	-	3,810,000.00
-	14,900.00		0.04		59,460.00	- 71,050,000.00	-	112,000,000.00	-	28,170,000.00
-	14,900.00		0.05		63,820.00	- 84,100,000.00	-	112,000,000.00	-	28,170,000.00
-	14,900.00		0.05		63,820.00	- 84,100,000.00	-	112,000,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		56,000.00	- 52,200,000.00	-	111,500,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		60,360.00	- 65,250,000.00	-	111,500,000.00	-	28,170,000.00
-	14,900.00		4,249.00		67,270.00	- 102,900,000.00	-	112,500,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		60,360.00	- 65,250,000.00	-	111,500,000.00	-	28,170,000.00
-	14,900.00		4,249.00		67,270.00	- 102,900,000.00	-	112,500,000.00	-	28,170,000.00
-	14,900.00	-	19,240.00		63,820.00	33,400,000.00	-	112,000,000.00	-	28,760,000.00
-	14,900.00	-	19,240.00		63,820.00	33,400,000.00	-	112,000,000.00	-	28,760,000.00
-	14,900.00	-	14,990.00		62,920.00	27,600,000.00	-	112,500,000.00	-	28,760,000.00
-	14,900.00	-	23,490.00		56,000.00	65,290,000.00	-	111,500,000.00	-	28,760,000.00
-	14,900.00	-	14,990.00		62,920.00	27,600,000.00	-	112,500,000.00	-	28,760,000.00
-	14,900.00	-	23,490.00		60,360.00	52,250,000.00	-	111,500,000.00	-	28,760,000.00

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 78 di 215

Reazioni vincolari - STR A1										
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>					
-	14,900.00	-	14,990.00	67,270.00	14,550,000.00	-	112,500,000.00	-	28,760,000.00	
-	14,900.00	-	23,490.00	60,360.00	52,250,000.00	-	111,500,000.00	-	28,760,000.00	
-	14,900.00	-	14,990.00	67,270.00	14,550,000.00	-	112,500,000.00	-	28,760,000.00	
	0.00	-	19,240.00	61,400.00	58,340,000.00	-	3,218,000.00	-	591,100.00	
	0.00	-	19,240.00	65,760.00	45,290,000.00	-	3,218,000.00	-	591,100.00	
	0.00	-	19,240.00	65,760.00	45,290,000.00	-	3,218,000.00	-	591,100.00	
-	14,210.00	-	19,240.00	65,760.00	45,290,000.00	-	105,700,000.00	-	25,550,000.00	
-	14,210.00	-	19,240.00	65,760.00	45,290,000.00	-	105,700,000.00	-	25,550,000.00	
-	14,210.00	-	23,490.00	57,950.00	77,190,000.00	-	105,200,000.00	-	25,550,000.00	
-	14,210.00	-	23,490.00	62,300.00	64,140,000.00	-	105,200,000.00	-	25,550,000.00	
-	14,210.00	-	14,990.00	69,220.00	26,440,000.00	-	106,200,000.00	-	25,550,000.00	
-	14,210.00	-	23,490.00	62,300.00	64,140,000.00	-	105,200,000.00	-	25,550,000.00	
-	14,210.00	-	14,990.00	69,220.00	26,440,000.00	-	106,200,000.00	-	25,550,000.00	
-	693.00	-	19,240.00	70,800.00	23,270,000.00	-	10,250,000.00	-	3,810,000.00	
-	693.00	-	19,240.00	70,800.00	23,270,000.00	-	10,250,000.00	-	3,810,000.00	
-	693.00	-	14,990.00	69,900.00	17,470,000.00	-	10,770,000.00	-	3,810,000.00	
-	693.00	-	14,990.00	69,900.00	17,470,000.00	-	10,770,000.00	-	3,810,000.00	
-	693.00	-	23,490.00	67,340.00	42,120,000.00	-	9,727,000.00	-	3,810,000.00	
-	693.00	-	23,490.00	67,340.00	42,120,000.00	-	9,727,000.00	-	3,810,000.00	
-	693.00	-	14,990.00	74,260.00	4,420,000.00	-	10,770,000.00	-	3,810,000.00	
-	14,900.00		0.05	70,800.00	-	94,230,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00		0.05	70,800.00	-	94,230,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00		4,249.00	69,900.00	-	100,000,000.00	-	113,300,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	67,340.00	-	75,380,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00	74,260.00	-	113,100,000.00	-	113,300,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	67,340.00	-	75,380,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00	74,260.00	-	113,100,000.00	-	113,300,000.00	-	28,170,000.00
-	14,900.00	-	19,240.00	66,440.00	36,310,000.00	-	112,700,000.00	-	28,760,000.00	
-	14,900.00	-	19,240.00	66,440.00	36,310,000.00	-	112,700,000.00	-	28,760,000.00	
-	14,900.00	-	19,240.00	70,800.00	23,270,000.00	-	112,700,000.00	-	28,760,000.00	
-	14,900.00	-	19,240.00	70,800.00	23,270,000.00	-	112,700,000.00	-	28,760,000.00	
-	14,900.00	-	14,990.00	69,900.00	17,470,000.00	-	113,300,000.00	-	28,760,000.00	
-	14,900.00	-	23,490.00	67,340.00	42,120,000.00	-	112,200,000.00	-	28,760,000.00	
-	14,900.00	-	14,990.00	74,260.00	4,420,000.00	-	113,300,000.00	-	28,760,000.00	
-	14,900.00	-	23,490.00	67,340.00	42,120,000.00	-	112,200,000.00	-	28,760,000.00	
-	14,900.00	-	14,990.00	74,260.00	4,420,000.00	-	113,300,000.00	-	28,760,000.00	
	0.00	-	14,990.00	71,580.00	32,000,000.00	-	2,999,000.00	-	591,100.00	
	0.00	-	14,990.00	71,580.00	32,000,000.00	-	2,999,000.00	-	591,100.00	
-	14,210.00	-	19,240.00	68,120.00	50,850,000.00	-	105,000,000.00	-	25,550,000.00	
-	14,210.00	-	19,240.00	68,120.00	50,850,000.00	-	105,000,000.00	-	25,550,000.00	
-	14,210.00	-	23,490.00	60,310.00	82,740,000.00	-	104,400,000.00	-	25,550,000.00	
-	14,210.00	-	14,990.00	67,220.00	45,050,000.00	-	105,500,000.00	-	25,550,000.00	
-	14,210.00	-	23,490.00	64,660.00	69,700,000.00	-	104,400,000.00	-	25,550,000.00	
-	14,210.00	-	14,990.00	71,580.00	32,000,000.00	-	105,500,000.00	-	25,550,000.00	
-	14,210.00	-	23,490.00	64,660.00	69,700,000.00	-	104,400,000.00	-	25,550,000.00	
-	14,210.00	-	14,990.00	71,580.00	32,000,000.00	-	105,500,000.00	-	25,550,000.00	
-	693.00	-	19,240.00	73,160.00	28,820,000.00	-	9,508,000.00	-	3,810,000.00	
-	693.00	-	14,990.00	72,260.00	23,020,000.00	-	10,030,000.00	-	3,810,000.00	
-	693.00	-	23,490.00	69,700.00	47,670,000.00	-	8,985,000.00	-	3,810,000.00	
-	14,900.00		0.04	68,800.00	-	75,620,000.00	-	112,000,000.00	-	28,170,000.00
-	14,900.00		0.05	73,160.00	-	88,670,000.00	-	112,000,000.00	-	28,170,000.00
-	14,900.00		0.05	73,160.00	-	88,670,000.00	-	112,000,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	65,350.00	-	56,780,000.00	-	111,500,000.00	-	28,170,000.00
-	14,900.00		4,249.00	72,260.00	-	94,470,000.00	-	112,500,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	69,700.00	-	69,820,000.00	-	111,500,000.00	-	28,170,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 79 di 215

Reazioni vincolari - STR A1											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	14,900.00		4,249.00		76,620.00	-	107,500,000.00	-	112,500,000.00	-	28,170,000.00
-	14,900.00		4,249.00		69,700.00	-	69,820,000.00	-	111,500,000.00	-	28,170,000.00
-	14,900.00		4,249.00		76,620.00	-	107,500,000.00	-	112,500,000.00	-	28,170,000.00
-	14,900.00		19,240.00		68,800.00		41,870,000.00	-	112,000,000.00	-	28,760,000.00
-	14,900.00		19,240.00		68,800.00		41,870,000.00	-	112,000,000.00	-	28,760,000.00
-	14,900.00		19,240.00		73,160.00		28,820,000.00	-	112,000,000.00	-	28,760,000.00
-	14,900.00		19,240.00		73,160.00		28,820,000.00	-	112,000,000.00	-	28,760,000.00
-	14,900.00		23,490.00		65,350.00		60,720,000.00	-	111,500,000.00	-	28,760,000.00
-	14,900.00		14,990.00		72,260.00		23,020,000.00	-	112,500,000.00	-	28,760,000.00
-	14,900.00		23,490.00		65,350.00		60,720,000.00	-	111,500,000.00	-	28,760,000.00
-	14,900.00		23,490.00		69,700.00		47,670,000.00	-	111,500,000.00	-	28,760,000.00
-	14,900.00		14,990.00		76,620.00		9,976,000.00	-	112,500,000.00	-	28,760,000.00
-	14,900.00		23,490.00		69,700.00		47,670,000.00	-	111,500,000.00	-	28,760,000.00
-	14,900.00		14,990.00		76,620.00		9,976,000.00	-	112,500,000.00	-	28,760,000.00
	0.00		19,240.00		70,750.00		53,760,000.00	-	3,218,000.00	-	591,100.00
	0.00		19,240.00		75,100.00		40,720,000.00	-	3,218,000.00	-	591,100.00
	0.00		19,240.00		75,100.00		40,720,000.00	-	3,218,000.00	-	591,100.00
	0.00		23,490.00		67,290.00		72,610,000.00	-	2,694,000.00	-	591,100.00
	0.00		23,490.00		71,650.00		59,560,000.00	-	2,694,000.00	-	591,100.00
	0.00		14,990.00		78,560.00		21,870,000.00	-	3,741,000.00	-	591,100.00
	0.00		14,990.00		78,560.00		21,870,000.00	-	3,741,000.00	-	591,100.00
-	14,210.00		19,240.00		75,100.00		40,720,000.00	-	105,700,000.00	-	25,550,000.00
-	14,210.00		19,240.00		75,100.00		40,720,000.00	-	105,700,000.00	-	25,550,000.00
-	14,210.00		23,490.00		67,290.00		72,610,000.00	-	105,200,000.00	-	25,550,000.00
-	14,210.00		14,990.00		74,200.00		34,920,000.00	-	106,200,000.00	-	25,550,000.00
-	14,210.00		23,490.00		71,650.00		59,560,000.00	-	105,200,000.00	-	25,550,000.00
-	14,210.00		14,990.00		78,560.00		21,870,000.00	-	106,200,000.00	-	25,550,000.00
-	14,210.00		23,490.00		71,650.00		59,560,000.00	-	105,200,000.00	-	25,550,000.00
-	14,210.00		14,990.00		78,560.00		21,870,000.00	-	106,200,000.00	-	25,550,000.00
-	693.00		19,240.00		80,140.00		18,690,000.00	-	10,250,000.00	-	3,810,000.00
-	14,900.00		0.05		75,790.00	-	85,760,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00		0.05		75,790.00	-	85,760,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00		0.06		80,140.00	-	98,800,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00		0.06		80,140.00	-	98,800,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00		4,249.00		72,330.00	-	66,910,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		72,330.00	-	66,910,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		76,690.00	-	79,950,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		83,600.00	-	117,700,000.00	-	113,300,000.00	-	28,170,000.00
-	14,900.00		4,249.00		76,690.00	-	79,950,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		83,600.00	-	117,700,000.00	-	113,300,000.00	-	28,170,000.00
-	14,900.00		19,240.00		75,790.00		31,740,000.00	-	112,700,000.00	-	28,760,000.00
-	14,900.00		19,240.00		80,140.00		18,690,000.00	-	112,700,000.00	-	28,760,000.00
-	14,900.00		19,240.00		80,140.00		18,690,000.00	-	112,700,000.00	-	28,760,000.00
-	14,900.00		14,990.00		79,240.00		12,890,000.00	-	113,300,000.00	-	28,760,000.00
-	14,900.00		23,490.00		76,690.00		37,540,000.00	-	112,200,000.00	-	28,760,000.00
-	14,900.00		14,990.00		83,600.00	-	155,700.00	-	113,300,000.00	-	28,760,000.00
-	14,900.00		23,490.00		76,690.00		37,540,000.00	-	112,200,000.00	-	28,760,000.00
-	14,900.00		14,990.00		83,600.00	-	155,700.00	-	113,300,000.00	-	28,760,000.00
	0.00		17,700.00		54,420.00	-	154,500,000.00	-	2,475,000.00		591,100.00
	14,210.00		13,450.00		50,960.00	-	135,600,000.00		100,500,000.00		25,550,000.00
	14,210.00		21,950.00		57,880.00	-	173,300,000.00		99,480,000.00		25,550,000.00
	13,510.00		13,450.00		56,000.00	-	157,700,000.00		93,490,000.00		22,330,000.00
	13,510.00		13,450.00		56,000.00	-	157,700,000.00		93,490,000.00		22,330,000.00
	0.00		13,450.00		57,950.00	-	145,800,000.00	-	2,694,000.00		591,100.00
	0.00		21,950.00		64,860.00	-	183,500,000.00	-	3,741,000.00		591,100.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 80 di 215

Reazioni vincolari - STR A1						
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>	
14,210.00	17,700.00	61,400.00	- 164,600,000.00	99,260,000.00	25,550,000.00	
14,210.00	13,450.00	57,950.00	- 145,800,000.00	99,780,000.00	25,550,000.00	
14,210.00	21,950.00	64,860.00	- 183,500,000.00	98,740,000.00	25,550,000.00	
- 693.00	17,700.00	66,440.00	- 186,600,000.00	- 10,250,000.00	- 2,628,000.00	
- 693.00	13,450.00	62,990.00	- 167,800,000.00	- 9,727,000.00	- 2,628,000.00	
- 693.00	21,950.00	69,900.00	- 205,500,000.00	- 10,770,000.00	- 2,628,000.00	
13,510.00	17,700.00	66,440.00	- 186,700,000.00	92,230,000.00	22,330,000.00	
13,510.00	21,950.00	69,900.00	- 205,500,000.00	91,700,000.00	22,330,000.00	
0.00	13,450.00	60,310.00	- 140,200,000.00	- 1,952,000.00	591,100.00	
0.00	21,950.00	67,220.00	- 177,900,000.00	- 2,999,000.00	591,100.00	
14,210.00	17,700.00	63,760.00	- 159,100,000.00	100,000,000.00	25,550,000.00	
14,210.00	17,700.00	63,760.00	- 159,100,000.00	100,000,000.00	25,550,000.00	
14,210.00	21,950.00	67,220.00	- 177,900,000.00	99,480,000.00	25,550,000.00	
13,510.00	17,700.00	68,800.00	- 181,100,000.00	92,970,000.00	22,330,000.00	
13,510.00	13,450.00	65,350.00	- 162,200,000.00	93,490,000.00	22,330,000.00	
13,510.00	13,450.00	65,350.00	- 162,200,000.00	93,490,000.00	22,330,000.00	
14,210.00	21,950.00	74,200.00	- 188,000,000.00	98,740,000.00	25,550,000.00	
- 693.00	17,700.00	75,790.00	- 191,200,000.00	- 10,250,000.00	- 2,628,000.00	
13,510.00	17,700.00	75,790.00	- 191,200,000.00	92,230,000.00	22,330,000.00	
14,210.00	17,700.00	54,420.00	- 154,500,000.00	100,000,000.00	25,550,000.00	
14,210.00	17,700.00	54,420.00	- 154,500,000.00	100,000,000.00	25,550,000.00	
14,210.00	13,450.00	50,960.00	- 135,600,000.00	100,500,000.00	25,550,000.00	
14,210.00	21,950.00	57,880.00	- 173,300,000.00	99,480,000.00	25,550,000.00	
- 693.00	17,700.00	59,460.00	- 176,500,000.00	- 9,508,000.00	- 2,628,000.00	
- 693.00	13,450.00	56,000.00	- 157,700,000.00	- 8,985,000.00	- 2,628,000.00	
- 693.00	21,950.00	62,920.00	- 195,400,000.00	- 10,030,000.00	- 2,628,000.00	
- 693.00	13,450.00	56,000.00	- 157,700,000.00	- 8,985,000.00	- 2,628,000.00	
- 693.00	21,950.00	62,920.00	- 195,400,000.00	- 10,030,000.00	- 2,628,000.00	
13,510.00	17,700.00	59,460.00	- 176,500,000.00	92,970,000.00	22,330,000.00	
13,510.00	13,450.00	56,000.00	- 157,700,000.00	93,490,000.00	22,330,000.00	
13,510.00	21,950.00	62,920.00	- 195,400,000.00	92,450,000.00	22,330,000.00	
0.00	13,450.00	57,950.00	- 145,800,000.00	- 2,694,000.00	591,100.00	
0.00	21,950.00	64,860.00	- 183,500,000.00	- 3,741,000.00	591,100.00	
14,210.00	17,700.00	61,400.00	- 164,600,000.00	99,260,000.00	25,550,000.00	
14,210.00	13,450.00	57,950.00	- 145,800,000.00	99,780,000.00	25,550,000.00	
14,210.00	21,950.00	64,860.00	- 183,500,000.00	98,740,000.00	25,550,000.00	
14,210.00	13,450.00	57,950.00	- 145,800,000.00	99,780,000.00	25,550,000.00	
14,210.00	21,950.00	64,860.00	- 183,500,000.00	98,740,000.00	25,550,000.00	
- 693.00	17,700.00	66,440.00	- 186,600,000.00	- 10,250,000.00	- 2,628,000.00	
- 693.00	13,450.00	62,990.00	- 167,800,000.00	- 9,727,000.00	- 2,628,000.00	
- 693.00	21,950.00	69,900.00	- 205,500,000.00	- 10,770,000.00	- 2,628,000.00	
- 693.00	13,450.00	62,990.00	- 167,800,000.00	- 9,727,000.00	- 2,628,000.00	
- 693.00	21,950.00	69,900.00	- 205,500,000.00	- 10,770,000.00	- 2,628,000.00	
13,510.00	17,700.00	66,440.00	- 186,700,000.00	92,230,000.00	22,330,000.00	
13,510.00	13,450.00	62,990.00	- 167,800,000.00	92,750,000.00	22,330,000.00	
13,510.00	21,950.00	69,900.00	- 205,500,000.00	91,700,000.00	22,330,000.00	
14,210.00	17,700.00	63,760.00	- 159,100,000.00	100,000,000.00	25,550,000.00	
14,210.00	13,450.00	60,310.00	- 140,200,000.00	100,500,000.00	25,550,000.00	
14,210.00	21,950.00	67,220.00	- 177,900,000.00	99,480,000.00	25,550,000.00	
- 693.00	17,700.00	68,800.00	- 181,100,000.00	- 9,508,000.00	- 2,628,000.00	
- 693.00	13,450.00	65,350.00	- 162,200,000.00	- 8,985,000.00	- 2,628,000.00	
- 693.00	21,950.00	72,260.00	- 199,900,000.00	- 10,030,000.00	- 2,628,000.00	
13,510.00	17,700.00	68,800.00	- 181,100,000.00	92,970,000.00	22,330,000.00	
13,510.00	21,950.00	72,260.00	- 199,900,000.00	92,450,000.00	22,330,000.00	
13,510.00	13,450.00	65,350.00	- 162,200,000.00	93,490,000.00	22,330,000.00	



<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 81 di 215

Reazioni vincolari - STR A1						
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>	
13,510.00	21,950.00	72,260.00	- 199,900,000.00	92,450,000.00	22,330,000.00	
0.00	17,700.00	70,750.00	- 169,200,000.00	- 3,218,000.00	591,100.00	
0.00	13,450.00	67,290.00	- 150,400,000.00	- 2,694,000.00	591,100.00	
0.00	21,950.00	74,200.00	- 188,000,000.00	- 3,741,000.00	591,100.00	
14,210.00	17,700.00	70,750.00	- 169,200,000.00	99,260,000.00	25,550,000.00	
14,210.00	13,450.00	67,290.00	- 150,400,000.00	99,780,000.00	25,550,000.00	
14,210.00	21,950.00	74,200.00	- 188,000,000.00	98,740,000.00	25,550,000.00	
- 693.00	17,700.00	75,790.00	- 191,200,000.00	- 10,250,000.00	- 2,628,000.00	
- 693.00	13,450.00	72,330.00	- 172,400,000.00	- 9,727,000.00	- 2,628,000.00	
- 693.00	13,450.00	72,330.00	- 172,400,000.00	- 9,727,000.00	- 2,628,000.00	
- 693.00	21,950.00	79,240.00	- 210,100,000.00	- 10,770,000.00	- 2,628,000.00	
13,510.00	17,700.00	75,790.00	- 191,200,000.00	92,230,000.00	22,330,000.00	
13,510.00	13,450.00	72,330.00	- 172,400,000.00	92,750,000.00	22,330,000.00	
13,510.00	21,950.00	79,240.00	- 210,100,000.00	91,700,000.00	22,330,000.00	
0.00	17,700.00	58,780.00	- 167,500,000.00	- 2,475,000.00	591,100.00	
0.00	13,450.00	50,960.00	- 135,600,000.00	- 1,952,000.00	591,100.00	
0.00	21,950.00	57,880.00	- 173,300,000.00	- 2,999,000.00	591,100.00	
0.00	13,450.00	55,320.00	- 148,700,000.00	- 1,952,000.00	591,100.00	
0.00	21,950.00	62,230.00	- 186,400,000.00	- 2,999,000.00	591,100.00	
0.00	13,450.00	55,320.00	- 148,700,000.00	- 1,952,000.00	591,100.00	
14,210.00	17,700.00	54,420.00	- 154,500,000.00	100,000,000.00	25,550,000.00	
14,210.00	17,700.00	58,780.00	- 167,500,000.00	100,000,000.00	25,550,000.00	
14,210.00	17,700.00	58,780.00	- 167,500,000.00	100,000,000.00	25,550,000.00	
14,210.00	13,450.00	50,960.00	- 135,600,000.00	100,500,000.00	25,550,000.00	
14,210.00	21,950.00	57,880.00	- 173,300,000.00	99,480,000.00	25,550,000.00	
14,210.00	13,450.00	55,320.00	- 148,700,000.00	100,500,000.00	25,550,000.00	
14,210.00	21,950.00	62,230.00	- 186,400,000.00	99,480,000.00	25,550,000.00	
14,210.00	13,450.00	55,320.00	- 148,700,000.00	100,500,000.00	25,550,000.00	
14,210.00	21,950.00	62,230.00	- 186,400,000.00	99,480,000.00	25,550,000.00	
- 693.00	17,700.00	59,460.00	- 176,500,000.00	- 9,508,000.00	- 2,628,000.00	
- 693.00	13,450.00	60,360.00	- 170,700,000.00	- 8,985,000.00	- 2,628,000.00	
13,510.00	17,700.00	59,460.00	- 176,500,000.00	92,970,000.00	22,330,000.00	
13,510.00	17,700.00	59,460.00	- 176,500,000.00	92,970,000.00	22,330,000.00	
13,510.00	17,700.00	63,820.00	- 189,600,000.00	92,970,000.00	22,330,000.00	
13,510.00	17,700.00	63,820.00	- 189,600,000.00	92,970,000.00	22,330,000.00	
13,510.00	21,950.00	62,920.00	- 195,400,000.00	92,450,000.00	22,330,000.00	
13,510.00	21,950.00	62,920.00	- 195,400,000.00	92,450,000.00	22,330,000.00	
13,510.00	13,450.00	60,360.00	- 170,700,000.00	93,490,000.00	22,330,000.00	
13,510.00	21,950.00	67,270.00	- 208,400,000.00	92,450,000.00	22,330,000.00	
13,510.00	13,450.00	60,360.00	- 170,700,000.00	93,490,000.00	22,330,000.00	
13,510.00	21,950.00	67,270.00	- 208,400,000.00	92,450,000.00	22,330,000.00	
0.00	17,700.00	65,760.00	- 177,700,000.00	- 3,218,000.00	591,100.00	
0.00	17,700.00	65,760.00	- 177,700,000.00	- 3,218,000.00	591,100.00	
14,210.00	17,700.00	61,400.00	- 164,600,000.00	99,260,000.00	25,550,000.00	
14,210.00	17,700.00	65,760.00	- 177,700,000.00	99,260,000.00	25,550,000.00	
14,210.00	17,700.00	65,760.00	- 177,700,000.00	99,260,000.00	25,550,000.00	
14,210.00	13,450.00	62,300.00	- 158,800,000.00	99,780,000.00	25,550,000.00	
14,210.00	21,950.00	69,220.00	- 196,500,000.00	98,740,000.00	25,550,000.00	
14,210.00	13,450.00	62,300.00	- 158,800,000.00	99,780,000.00	25,550,000.00	
14,210.00	21,950.00	69,220.00	- 196,500,000.00	98,740,000.00	25,550,000.00	
- 693.00	17,700.00	70,800.00	- 199,700,000.00	- 10,250,000.00	- 2,628,000.00	
- 693.00	17,700.00	70,800.00	- 199,700,000.00	- 10,250,000.00	- 2,628,000.00	
- 693.00	13,450.00	67,340.00	- 180,800,000.00	- 9,727,000.00	- 2,628,000.00	
13,510.00	17,700.00	66,440.00	- 186,700,000.00	92,230,000.00	22,330,000.00	
13,510.00	17,700.00	70,800.00	- 199,700,000.00	92,230,000.00	22,330,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17    Lotto 10    Codifica Documento EI2CLOC000006    Rev. A    Foglio 82 di 215

Reazioni vincolari - STR A1						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
13,510.00	17,700.00	70,800.00	- 199,700,000.00	92,230,000.00	22,330,000.00	
13,510.00	13,450.00	62,990.00	- 167,800,000.00	92,750,000.00	22,330,000.00	
13,510.00	21,950.00	69,900.00	- 205,500,000.00	91,700,000.00	22,330,000.00	
13,510.00	13,450.00	62,990.00	- 167,800,000.00	92,750,000.00	22,330,000.00	
13,510.00	13,450.00	67,340.00	- 180,800,000.00	92,750,000.00	22,330,000.00	
13,510.00	21,950.00	74,260.00	- 218,500,000.00	91,700,000.00	22,330,000.00	
13,510.00	13,450.00	67,340.00	- 180,800,000.00	92,750,000.00	22,330,000.00	
13,510.00	21,950.00	74,260.00	- 218,500,000.00	91,700,000.00	22,330,000.00	
0.00	17,700.00	63,760.00	- 159,100,000.00	- 2,475,000.00	591,100.00	
0.00	17,700.00	68,120.00	- 172,100,000.00	- 2,475,000.00	591,100.00	
0.00	13,450.00	64,660.00	- 153,300,000.00	- 1,952,000.00	591,100.00	
0.00	21,950.00	71,580.00	- 191,000,000.00	- 2,999,000.00	591,100.00	
0.00	13,450.00	64,660.00	- 153,300,000.00	- 1,952,000.00	591,100.00	
0.00	21,950.00	71,580.00	- 191,000,000.00	- 2,999,000.00	591,100.00	
14,210.00	17,700.00	68,120.00	- 172,100,000.00	100,000,000.00	25,550,000.00	
14,210.00	17,700.00	68,120.00	- 172,100,000.00	100,000,000.00	25,550,000.00	
14,210.00	13,450.00	60,310.00	- 140,200,000.00	100,500,000.00	25,550,000.00	
14,210.00	21,950.00	67,220.00	- 177,900,000.00	99,480,000.00	25,550,000.00	
14,210.00	13,450.00	60,310.00	- 140,200,000.00	100,500,000.00	25,550,000.00	
14,210.00	13,450.00	64,660.00	- 153,300,000.00	100,500,000.00	25,550,000.00	
14,210.00	21,950.00	71,580.00	- 191,000,000.00	99,480,000.00	25,550,000.00	
14,210.00	13,450.00	64,660.00	- 153,300,000.00	100,500,000.00	25,550,000.00	
14,210.00	21,950.00	71,580.00	- 191,000,000.00	99,480,000.00	25,550,000.00	
- 693.00	13,450.00	69,700.00	- 175,300,000.00	- 8,985,000.00	- 2,628,000.00	
- 693.00	21,950.00	76,620.00	- 213,000,000.00	- 10,030,000.00	- 2,628,000.00	
- 693.00	21,950.00	76,620.00	- 213,000,000.00	- 10,030,000.00	- 2,628,000.00	
13,510.00	17,700.00	68,800.00	- 181,100,000.00	92,970,000.00	22,330,000.00	
13,510.00	17,700.00	73,160.00	- 194,100,000.00	92,970,000.00	22,330,000.00	
13,510.00	17,700.00	73,160.00	- 194,100,000.00	92,970,000.00	22,330,000.00	
13,510.00	21,950.00	72,260.00	- 199,900,000.00	92,450,000.00	22,330,000.00	
13,510.00	13,450.00	69,700.00	- 175,300,000.00	93,490,000.00	22,330,000.00	
13,510.00	21,950.00	76,620.00	- 213,000,000.00	92,450,000.00	22,330,000.00	
13,510.00	13,450.00	69,700.00	- 175,300,000.00	93,490,000.00	22,330,000.00	
13,510.00	21,950.00	76,620.00	- 213,000,000.00	92,450,000.00	22,330,000.00	
0.00	17,700.00	70,750.00	- 169,200,000.00	- 3,218,000.00	591,100.00	
0.00	17,700.00	70,750.00	- 169,200,000.00	- 3,218,000.00	591,100.00	
0.00	13,450.00	67,290.00	- 150,400,000.00	- 2,694,000.00	591,100.00	
0.00	21,950.00	74,200.00	- 188,000,000.00	- 3,741,000.00	591,100.00	
0.01	21,950.00	78,560.00	- 201,100,000.00	- 3,741,000.00	591,100.00	
14,210.00	17,700.00	70,750.00	- 169,200,000.00	99,260,000.00	25,550,000.00	
14,210.00	17,700.00	70,750.00	- 169,200,000.00	99,260,000.00	25,550,000.00	
14,210.00	17,700.00	75,100.00	- 182,200,000.00	99,260,000.00	25,550,000.00	
14,210.00	17,700.00	75,100.00	- 182,200,000.00	99,260,000.00	25,550,000.00	
14,210.00	13,450.00	67,290.00	- 150,400,000.00	99,780,000.00	25,550,000.00	
14,210.00	13,450.00	67,290.00	- 150,400,000.00	99,780,000.00	25,550,000.00	
14,210.00	21,950.00	74,200.00	- 188,000,000.00	98,740,000.00	25,550,000.00	
14,210.00	13,450.00	71,650.00	- 163,400,000.00	99,780,000.00	25,550,000.00	
14,210.00	21,950.00	78,560.00	- 201,100,000.00	98,740,000.00	25,550,000.00	
14,210.00	13,450.00	71,650.00	- 163,400,000.00	99,780,000.00	25,550,000.00	
14,210.00	21,950.00	78,560.00	- 201,100,000.00	98,740,000.00	25,550,000.00	
- 693.00	17,700.00	75,790.00	- 191,200,000.00	- 10,250,000.00	- 2,628,000.00	
- 693.00	17,700.00	80,140.00	- 204,300,000.00	- 10,250,000.00	- 2,628,000.00	
- 693.00	17,700.00	80,140.00	- 204,300,000.00	- 10,250,000.00	- 2,628,000.00	
- 693.00	21,950.00	79,240.00	- 210,100,000.00	- 10,770,000.00	- 2,628,000.00	
- 693.00	21,950.00	83,600.00	- 223,100,000.00	- 10,770,000.00	- 2,628,000.00	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45

Progetto  
IN17Lotto  
10Codifica Documento  
EI2CLOC000006Rev.  
AFoglio  
83 di 215

## Reazioni vincolari - STR A1

Rx	N	Ry	N	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
	13,510.00		17,700.00		75,790.00	-	191,200,000.00		92,230,000.00		22,330,000.00
	13,510.00		17,700.00		80,140.00	-	204,300,000.00		92,230,000.00		22,330,000.00
	13,510.00		17,700.00		80,140.00	-	204,300,000.00		92,230,000.00		22,330,000.00
	13,510.00		13,450.00		72,330.00	-	172,400,000.00		92,750,000.00		22,330,000.00
	13,510.00		21,950.00		79,240.00	-	210,100,000.00		91,700,000.00		22,330,000.00
	13,510.00		13,450.00		72,330.00	-	172,400,000.00		92,750,000.00		22,330,000.00
	13,510.00		21,950.00		79,240.00	-	210,100,000.00		91,700,000.00		22,330,000.00
	13,510.00		13,450.00		76,690.00	-	185,400,000.00		92,750,000.00		22,330,000.00
	13,510.00		21,950.00		83,600.00	-	223,100,000.00		91,700,000.00		22,330,000.00
	13,510.00		13,450.00		76,690.00	-	185,400,000.00		92,750,000.00		22,330,000.00
	13,510.00		21,950.00		83,600.00	-	223,100,000.00		91,700,000.00		22,330,000.00
	0.00		13,450.00		50,960.00	-	135,600,000.00	-	1,952,000.00		591,100.00
	0.00		21,950.00		57,880.00	-	173,300,000.00	-	2,999,000.00		591,100.00
-	14,210.00		13,450.00		50,960.00	-	135,600,000.00	-	104,400,000.00	-	24,360,000.00
-	14,900.00		17,700.00		59,460.00	-	176,500,000.00	-	112,000,000.00	-	27,580,000.00
-	14,900.00		17,700.00		59,460.00	-	176,500,000.00	-	112,000,000.00	-	27,580,000.00
-	14,900.00		13,450.00		56,000.00	-	157,700,000.00	-	111,500,000.00	-	27,580,000.00
-	14,900.00		21,950.00		62,920.00	-	195,400,000.00	-	112,500,000.00	-	27,580,000.00
-	14,900.00		21,950.00		62,920.00	-	195,400,000.00	-	112,500,000.00	-	27,580,000.00
	0.00		17,700.00		61,400.00	-	164,600,000.00	-	3,218,000.00		591,100.00
-	14,210.00		17,700.00		61,400.00	-	164,600,000.00	-	105,700,000.00	-	24,360,000.00
-	14,210.00		13,450.00		57,950.00	-	145,800,000.00	-	105,200,000.00	-	24,360,000.00
-	14,210.00		21,950.00		64,860.00	-	183,500,000.00	-	106,200,000.00	-	24,360,000.00
-	14,210.00		13,450.00		57,950.00	-	145,800,000.00	-	105,200,000.00	-	24,360,000.00
-	14,210.00		21,950.00		64,860.00	-	183,500,000.00	-	106,200,000.00	-	24,360,000.00
-	14,900.00		17,700.00		66,440.00	-	186,600,000.00	-	112,700,000.00	-	27,580,000.00
-	14,900.00		21,950.00		69,900.00	-	205,500,000.00	-	113,300,000.00	-	27,580,000.00
	0.00		17,700.00		63,760.00	-	159,100,000.00	-	2,475,000.00		591,100.00
-	14,210.00		17,700.00		63,760.00	-	159,100,000.00	-	105,000,000.00	-	24,360,000.00
-	14,210.00		17,700.00		63,760.00	-	159,100,000.00	-	105,000,000.00	-	24,360,000.00
-	14,210.00		13,450.00		60,310.00	-	140,200,000.00	-	104,400,000.00	-	24,360,000.00
-	14,210.00		21,950.00		67,220.00	-	177,900,000.00	-	105,500,000.00	-	24,360,000.00
-	14,210.00		13,450.00		60,310.00	-	140,200,000.00	-	104,400,000.00	-	24,360,000.00
-	14,210.00		21,950.00		67,220.00	-	177,900,000.00	-	105,500,000.00	-	24,360,000.00
-	693.00		13,450.00		65,350.00	-	162,200,000.00	-	8,985,000.00	-	2,628,000.00
-	693.00		21,950.00		72,260.00	-	199,900,000.00	-	10,030,000.00	-	2,628,000.00
-	14,900.00		17,700.00		68,800.00	-	181,100,000.00	-	112,000,000.00	-	27,580,000.00
-	14,900.00		13,450.00		65,350.00	-	162,200,000.00	-	111,500,000.00	-	27,580,000.00
-	14,900.00		21,950.00		72,260.00	-	199,900,000.00	-	112,500,000.00	-	27,580,000.00
-	14,900.00		13,450.00		65,350.00	-	162,200,000.00	-	111,500,000.00	-	27,580,000.00
-	14,900.00		21,950.00		72,260.00	-	199,900,000.00	-	112,500,000.00	-	27,580,000.00
	0.00		13,450.00		67,290.00	-	150,400,000.00	-	2,694,000.00		591,100.00
-	14,210.00		17,700.00		70,750.00	-	169,200,000.00	-	105,700,000.00	-	24,360,000.00
-	14,210.00		13,450.00		67,290.00	-	150,400,000.00	-	105,200,000.00	-	24,360,000.00
-	693.00		13,450.00		72,330.00	-	172,400,000.00	-	9,727,000.00	-	2,628,000.00
-	14,900.00		13,450.00		72,330.00	-	172,400,000.00	-	112,200,000.00	-	27,580,000.00
-	14,900.00		21,950.00		79,240.00	-	210,100,000.00	-	113,300,000.00	-	27,580,000.00
	0.00		17,700.00		54,420.00	-	154,500,000.00	-	2,475,000.00		591,100.00
	0.00		17,700.00		54,420.00	-	154,500,000.00	-	2,475,000.00		591,100.00
	0.00		13,450.00		50,960.00	-	135,600,000.00	-	1,952,000.00		591,100.00
	0.00		21,950.00		57,880.00	-	173,300,000.00	-	2,999,000.00		591,100.00
-	14,210.00		17,700.00		54,420.00	-	154,500,000.00	-	105,000,000.00	-	24,360,000.00
-	14,210.00		13,450.00		50,960.00	-	135,600,000.00	-	104,400,000.00	-	24,360,000.00
-	14,210.00		21,950.00		57,880.00	-	173,300,000.00	-	105,500,000.00	-	24,360,000.00
-	693.00		17,700.00		59,460.00	-	176,500,000.00	-	9,508,000.00	-	2,628,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17    Lotto 10    Codifica Documento EI2CLOC000006    Rev. A    Foglio 84 di 215

Reazioni vincolari - STR A1											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	14,900.00		17,700.00		59,460.00	-	176,500,000.00	-	112,000,000.00	-	27,580,000.00
-	14,900.00		13,450.00		56,000.00	-	157,700,000.00	-	111,500,000.00	-	27,580,000.00
-	14,900.00		21,950.00		62,920.00	-	195,400,000.00	-	112,500,000.00	-	27,580,000.00
	0.00		17,700.00		61,400.00	-	164,600,000.00	-	3,218,000.00		591,100.00
	0.00		21,950.00		64,860.00	-	183,500,000.00	-	3,741,000.00		591,100.00
-	14,210.00		17,700.00		61,400.00	-	164,600,000.00	-	105,700,000.00	-	24,360,000.00
-	14,210.00		13,450.00		57,950.00	-	145,800,000.00	-	105,200,000.00	-	24,360,000.00
-	14,210.00		21,950.00		64,860.00	-	183,500,000.00	-	106,200,000.00	-	24,360,000.00
-	14,900.00		17,700.00		66,440.00	-	186,600,000.00	-	112,700,000.00	-	27,580,000.00
-	14,900.00		17,700.00		66,440.00	-	186,600,000.00	-	112,700,000.00	-	27,580,000.00
-	14,900.00		13,450.00		62,990.00	-	167,800,000.00	-	112,200,000.00	-	27,580,000.00
-	14,900.00		21,950.00		69,900.00	-	205,500,000.00	-	113,300,000.00	-	27,580,000.00
	0.00		17,700.00		63,760.00	-	159,100,000.00	-	2,475,000.00		591,100.00
	0.00		13,450.00		60,310.00	-	140,200,000.00	-	1,952,000.00		591,100.00
	0.00		21,950.00		67,220.00	-	177,900,000.00	-	2,999,000.00		591,100.00
-	14,210.00		17,700.00		63,760.00	-	159,100,000.00	-	105,000,000.00	-	24,360,000.00
-	14,210.00		13,450.00		60,310.00	-	140,200,000.00	-	104,400,000.00	-	24,360,000.00
-	14,210.00		21,950.00		67,220.00	-	177,900,000.00	-	105,500,000.00	-	24,360,000.00
-	693.00		13,450.00		65,350.00	-	162,200,000.00	-	8,985,000.00	-	2,628,000.00
-	693.00		21,950.00		72,260.00	-	199,900,000.00	-	10,030,000.00	-	2,628,000.00
-	14,900.00		17,700.00		68,800.00	-	181,100,000.00	-	112,000,000.00	-	27,580,000.00
-	14,900.00		17,700.00		68,800.00	-	181,100,000.00	-	112,000,000.00	-	27,580,000.00
-	14,900.00		13,450.00		65,350.00	-	162,200,000.00	-	111,500,000.00	-	27,580,000.00
-	14,900.00		21,950.00		72,260.00	-	199,900,000.00	-	112,500,000.00	-	27,580,000.00
	0.00		21,950.00		74,200.00	-	188,000,000.00	-	3,741,000.00		591,100.00
-	14,210.00		17,700.00		70,750.00	-	169,200,000.00	-	105,700,000.00	-	24,360,000.00
-	14,210.00		17,700.00		70,750.00	-	169,200,000.00	-	105,700,000.00	-	24,360,000.00
-	14,210.00		13,450.00		67,290.00	-	150,400,000.00	-	105,200,000.00	-	24,360,000.00
-	14,210.00		21,950.00		74,200.00	-	188,000,000.00	-	106,200,000.00	-	24,360,000.00
-	14,900.00		17,700.00		75,790.00	-	191,200,000.00	-	112,700,000.00	-	27,580,000.00
-	14,900.00		13,450.00		72,330.00	-	172,400,000.00	-	112,200,000.00	-	27,580,000.00
-	14,900.00		21,950.00		79,240.00	-	210,100,000.00	-	113,300,000.00	-	27,580,000.00
-	14,900.00		13,450.00		72,330.00	-	172,400,000.00	-	112,200,000.00	-	27,580,000.00
-	14,900.00		21,950.00		79,240.00	-	210,100,000.00	-	113,300,000.00	-	27,580,000.00
	0.00		17,700.00		58,780.00	-	167,500,000.00	-	2,475,000.00		591,100.00
	0.00		21,950.00		62,230.00	-	186,400,000.00	-	2,999,000.00		591,100.00
-	14,210.00		17,700.00		54,420.00	-	154,500,000.00	-	105,000,000.00	-	24,360,000.00
-	14,210.00		17,700.00		54,420.00	-	154,500,000.00	-	105,000,000.00	-	24,360,000.00
-	14,210.00		17,700.00		58,780.00	-	167,500,000.00	-	105,000,000.00	-	24,360,000.00
-	14,210.00		17,700.00		58,780.00	-	167,500,000.00	-	105,000,000.00	-	24,360,000.00
-	14,210.00		21,950.00		57,880.00	-	173,300,000.00	-	105,500,000.00	-	24,360,000.00
-	14,210.00		13,450.00		50,960.00	-	135,600,000.00	-	104,400,000.00	-	24,360,000.00
-	14,210.00		21,950.00		57,880.00	-	173,300,000.00	-	105,500,000.00	-	24,360,000.00
-	14,210.00		13,450.00		55,320.00	-	148,700,000.00	-	104,400,000.00	-	24,360,000.00
-	14,210.00		21,950.00		62,230.00	-	186,400,000.00	-	105,500,000.00	-	24,360,000.00
-	14,210.00		13,450.00		55,320.00	-	148,700,000.00	-	104,400,000.00	-	24,360,000.00
-	14,210.00		21,950.00		62,230.00	-	186,400,000.00	-	105,500,000.00	-	24,360,000.00
-	693.00		17,700.00		63,820.00	-	189,600,000.00	-	9,508,000.00	-	2,628,000.00
-	693.00		17,700.00		63,820.00	-	189,600,000.00	-	9,508,000.00	-	2,628,000.00
-	693.00		13,450.00		56,000.00	-	157,700,000.00	-	8,985,000.00	-	2,628,000.00
-	693.00		21,950.00		62,920.00	-	195,400,000.00	-	10,030,000.00	-	2,628,000.00
-	693.00		13,450.00		60,360.00	-	170,700,000.00	-	8,985,000.00	-	2,628,000.00
-	693.00		21,950.00		67,270.00	-	208,400,000.00	-	10,030,000.00	-	2,628,000.00
-	693.00		21,950.00		67,270.00	-	208,400,000.00	-	10,030,000.00	-	2,628,000.00
-	14,900.00		17,700.00		63,820.00	-	189,600,000.00	-	112,000,000.00	-	27,580,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 85 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,900.00		17,700.00		63,820.00	- 189,600,000.00	-	112,000,000.00	-	27,580,000.00
-	14,900.00		13,450.00		56,000.00	- 157,700,000.00	-	111,500,000.00	-	27,580,000.00
-	14,900.00		13,450.00		60,360.00	- 170,700,000.00	-	111,500,000.00	-	27,580,000.00
-	14,900.00		21,950.00		67,270.00	- 208,400,000.00	-	112,500,000.00	-	27,580,000.00
-	14,900.00		13,450.00		60,360.00	- 170,700,000.00	-	111,500,000.00	-	27,580,000.00
-	14,900.00		21,950.00		67,270.00	- 208,400,000.00	-	112,500,000.00	-	27,580,000.00
	0.00		17,700.00		61,400.00	- 164,600,000.00	-	3,218,000.00	-	591,100.00
	0.00		13,450.00		57,950.00	- 145,800,000.00	-	2,694,000.00	-	591,100.00
	0.00		13,450.00		62,300.00	- 158,800,000.00	-	2,694,000.00	-	591,100.00
	0.00		21,950.00		69,220.00	- 196,500,000.00	-	3,741,000.00	-	591,100.00
	0.00		13,450.00		62,300.00	- 158,800,000.00	-	2,694,000.00	-	591,100.00
	0.00		21,950.00		69,220.00	- 196,500,000.00	-	3,741,000.00	-	591,100.00
-	14,210.00		17,700.00		61,400.00	- 164,600,000.00	-	105,700,000.00	-	24,360,000.00
-	14,210.00		17,700.00		65,760.00	- 177,700,000.00	-	105,700,000.00	-	24,360,000.00
-	14,210.00		17,700.00		65,760.00	- 177,700,000.00	-	105,700,000.00	-	24,360,000.00
-	14,210.00		13,450.00		62,300.00	- 158,800,000.00	-	105,200,000.00	-	24,360,000.00
-	14,210.00		21,950.00		69,220.00	- 196,500,000.00	-	106,200,000.00	-	24,360,000.00
-	14,210.00		13,450.00		62,300.00	- 158,800,000.00	-	105,200,000.00	-	24,360,000.00
-	14,210.00		21,950.00		69,220.00	- 196,500,000.00	-	106,200,000.00	-	24,360,000.00
-	693.00		17,700.00		66,440.00	- 186,600,000.00	-	10,250,000.00	-	2,628,000.00
-	693.00		13,450.00		67,340.00	- 180,800,000.00	-	9,727,000.00	-	2,628,000.00
-	693.00		21,950.00		74,260.00	- 218,500,000.00	-	10,770,000.00	-	2,628,000.00
-	693.00		21,950.00		74,260.00	- 218,500,000.00	-	10,770,000.00	-	2,628,000.00
-	14,900.00		17,700.00		70,800.00	- 199,700,000.00	-	112,700,000.00	-	27,580,000.00
-	14,900.00		17,700.00		70,800.00	- 199,700,000.00	-	112,700,000.00	-	27,580,000.00
-	14,900.00		13,450.00		62,990.00	- 167,800,000.00	-	112,200,000.00	-	27,580,000.00
-	14,900.00		13,450.00		62,990.00	- 167,800,000.00	-	112,200,000.00	-	27,580,000.00
-	14,900.00		21,950.00		69,900.00	- 205,500,000.00	-	113,300,000.00	-	27,580,000.00
-	14,900.00		13,450.00		67,340.00	- 180,800,000.00	-	112,200,000.00	-	27,580,000.00
-	14,900.00		21,950.00		74,260.00	- 218,500,000.00	-	113,300,000.00	-	27,580,000.00
-	14,900.00		13,450.00		67,340.00	- 180,800,000.00	-	112,200,000.00	-	27,580,000.00
-	14,900.00		21,950.00		74,260.00	- 218,500,000.00	-	113,300,000.00	-	27,580,000.00
	0.00		17,700.00		68,120.00	- 172,100,000.00	-	2,475,000.00	-	591,100.00
	0.00		13,450.00		60,310.00	- 140,200,000.00	-	1,952,000.00	-	591,100.00
	0.00		21,950.00		67,220.00	- 177,900,000.00	-	2,999,000.00	-	591,100.00
-	14,210.00		17,700.00		68,120.00	- 172,100,000.00	-	105,000,000.00	-	24,360,000.00
-	14,210.00		17,700.00		68,120.00	- 172,100,000.00	-	105,000,000.00	-	24,360,000.00
-	14,210.00		13,450.00		64,660.00	- 153,300,000.00	-	104,400,000.00	-	24,360,000.00
-	14,210.00		21,950.00		71,580.00	- 191,000,000.00	-	105,500,000.00	-	24,360,000.00
-	14,210.00		13,450.00		64,660.00	- 153,300,000.00	-	104,400,000.00	-	24,360,000.00
-	14,210.00		21,950.00		71,580.00	- 191,000,000.00	-	105,500,000.00	-	24,360,000.00
-	693.00		17,700.00		68,800.00	- 181,100,000.00	-	9,508,000.00	-	2,628,000.00
-	693.00		17,700.00		68,800.00	- 181,100,000.00	-	9,508,000.00	-	2,628,000.00
-	693.00		17,700.00		73,160.00	- 194,100,000.00	-	9,508,000.00	-	2,628,000.00
-	693.00		17,700.00		73,160.00	- 194,100,000.00	-	9,508,000.00	-	2,628,000.00
-	693.00		13,450.00		69,700.00	- 175,300,000.00	-	8,985,000.00	-	2,628,000.00
-	14,900.00		17,700.00		73,160.00	- 194,100,000.00	-	112,000,000.00	-	27,580,000.00
-	14,900.00		17,700.00		73,160.00	- 194,100,000.00	-	112,000,000.00	-	27,580,000.00
-	14,900.00		13,450.00		69,700.00	- 175,300,000.00	-	111,500,000.00	-	27,580,000.00
-	14,900.00		21,950.00		76,620.00	- 213,000,000.00	-	112,500,000.00	-	27,580,000.00
-	14,900.00		13,450.00		69,700.00	- 175,300,000.00	-	111,500,000.00	-	27,580,000.00
-	14,900.00		21,950.00		76,620.00	- 213,000,000.00	-	112,500,000.00	-	27,580,000.00
	0.00		17,700.00		75,100.00	- 182,200,000.00	-	3,218,000.00	-	591,100.00
	0.00		17,700.00		75,100.00	- 182,200,000.00	-	3,218,000.00	-	591,100.00
	0.00		13,450.00		71,650.00	- 163,400,000.00	-	2,694,000.00	-	591,100.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 86 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
	0.00		13,450.00		71,650.00	-	163,400,000.00	-	2,694,000.00	591,100.00
	0.00		21,950.00		78,560.00	-	201,100,000.00	-	3,741,000.00	591,100.00
-	14,210.00		17,700.00		75,100.00	-	182,200,000.00	-	105,700,000.00	- 24,360,000.00
-	14,210.00		17,700.00		75,100.00	-	182,200,000.00	-	105,700,000.00	- 24,360,000.00
-	14,210.00		13,450.00		67,290.00	-	150,400,000.00	-	105,200,000.00	- 24,360,000.00
-	14,210.00		21,950.00		74,200.00	-	188,000,000.00	-	106,200,000.00	- 24,360,000.00
-	14,210.00		21,950.00		74,200.00	-	188,000,000.00	-	106,200,000.00	- 24,360,000.00
-	14,210.00		13,450.00		71,650.00	-	163,400,000.00	-	105,200,000.00	- 24,360,000.00
-	14,210.00		21,950.00		78,560.00	-	201,100,000.00	-	106,200,000.00	- 24,360,000.00
-	14,210.00		13,450.00		71,650.00	-	163,400,000.00	-	105,200,000.00	- 24,360,000.00
-	14,210.00		21,950.00		78,560.00	-	201,100,000.00	-	106,200,000.00	- 24,360,000.00
-	693.00		21,950.00		79,240.00	-	210,100,000.00	-	10,770,000.00	- 2,628,000.00
-	693.00		13,450.00		76,690.00	-	185,400,000.00	-	9,727,000.00	- 2,628,000.00
-	693.00		21,950.00		83,600.00	-	223,100,000.00	-	10,770,000.00	- 2,628,000.00
-	693.00		13,450.00		76,690.00	-	185,400,000.00	-	9,727,000.00	- 2,628,000.00
-	14,900.00		17,700.00		75,790.00	-	191,200,000.00	-	112,700,000.00	- 27,580,000.00
-	14,900.00		17,700.00		75,790.00	-	191,200,000.00	-	112,700,000.00	- 27,580,000.00
-	14,900.00		17,700.00		80,140.00	-	204,300,000.00	-	112,700,000.00	- 27,580,000.00
-	14,900.00		17,700.00		80,140.00	-	204,300,000.00	-	112,700,000.00	- 27,580,000.00
-	14,900.00		13,450.00		76,690.00	-	185,400,000.00	-	112,200,000.00	- 27,580,000.00
-	14,900.00		21,950.00		83,600.00	-	223,100,000.00	-	113,300,000.00	- 27,580,000.00
-	14,900.00		13,450.00		76,690.00	-	185,400,000.00	-	112,200,000.00	- 27,580,000.00
-	14,900.00		21,950.00		83,600.00	-	223,100,000.00	-	113,300,000.00	- 27,580,000.00
	0.00	-	7,082.00		48,660.00	-	17,610,000.00	-	1,603,000.00	14.06
	0.00		7,082.00		60,180.00	-	80,440,000.00	-	3,347,000.00	31.07
	14,210.00		3,537.00		48,660.00	-	80,890,000.00	100,900,000.00		25,310,000.00
-	693.00		3,537.00		53,700.00	-	102,900,000.00	-	8,636,000.00	- 2,864,000.00
	13,510.00		10,620.00		59,460.00	-	134,300,000.00	92,970,000.00		22,090,000.00
	13,510.00		3,537.00		53,700.00	-	102,900,000.00	93,840,000.00		22,090,000.00
	0.00	-	7,082.00		55,640.00	-	27,740,000.00	-	2,345,000.00	18.72
	14,210.00		7,082.00		67,160.00	-	90,570,000.00	98,390,000.00		24,950,000.00
	14,210.00		17,700.00		67,160.00	-	153,900,000.00	98,390,000.00		25,310,000.00
	14,210.00		3,537.00		55,640.00	-	91,020,000.00	100,100,000.00		25,310,000.00
	13,510.00	-	7,082.00		60,680.00	-	49,770,000.00	93,100,000.00		21,740,000.00
	13,510.00		7,082.00		72,200.00	-	112,600,000.00	91,350,000.00		21,740,000.00
	13,510.00	-	7,082.00		60,680.00	-	49,770,000.00	93,100,000.00		21,740,000.00
	13,510.00		7,082.00		72,200.00	-	112,600,000.00	91,350,000.00		21,740,000.00
	13,510.00		3,537.00		60,680.00	-	113,000,000.00	93,100,000.00		22,090,000.00
	0.00		17,700.00		69,520.00	-	148,300,000.00	-	3,348,000.00	354,700.00
	14,210.00	-	7,082.00		58,000.00	-	22,190,000.00	100,900,000.00		24,950,000.00
	14,210.00		7,082.00		69,520.00	-	85,010,000.00	99,130,000.00		24,950,000.00
	14,210.00		3,537.00		58,000.00	-	85,470,000.00	100,900,000.00		25,310,000.00
	14,210.00		17,700.00		69,520.00	-	148,300,000.00	99,130,000.00		25,310,000.00
	14,210.00		17,700.00		69,520.00	-	148,300,000.00	99,130,000.00		25,310,000.00
-	693.00		7,082.00		74,560.00	-	107,000,000.00	-	10,380,000.00	- 3,219,000.00
-	693.00		7,082.00		74,560.00	-	107,000,000.00	-	10,380,000.00	- 3,219,000.00
-	693.00		3,537.00		63,040.00	-	107,500,000.00	-	8,636,000.00	- 2,864,000.00
-	693.00		17,700.00		74,560.00	-	170,300,000.00	-	10,380,000.00	- 2,864,000.00
	13,510.00		7,082.00		74,560.00	-	107,000,000.00	92,100,000.00		21,740,000.00
	14,210.00		17,700.00		76,510.00	-	158,400,000.00	98,390,000.00		25,310,000.00
-	693.00		7,082.00		81,550.00	-	117,200,000.00	-	11,120,000.00	- 3,219,000.00
	13,510.00		10,620.00		75,790.00	-	149,000,000.00	92,230,000.00		22,090,000.00
	13,510.00		10,620.00		75,790.00	-	149,000,000.00	92,230,000.00		22,090,000.00
	13,510.00		3,537.00		70,030.00	-	117,600,000.00	93,100,000.00		22,090,000.00
	13,510.00		17,700.00		81,550.00	-	180,500,000.00	91,350,000.00		22,090,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17    Lotto 10    Codifica Documento EI2CLOC000006    Rev. A    Foglio 87 di 215

Reazioni vincolari - STR A1						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
13,510.00	3,537.00	70,030.00	- 117,600,000.00	93,100,000.00	22,090,000.00	
13,510.00	17,700.00	81,550.00	- 180,500,000.00	91,350,000.00	22,090,000.00	
0.00	- 7,082.00	48,660.00	- 17,610,000.00	- 1,603,000.00	13.92	
0.00	7,082.00	60,180.00	- 80,440,000.00	- 3,347,000.00	30.92	
0.00	3,537.00	48,660.00	- 80,890,000.00	- 1,603,000.00	354,700.00	
14,210.00	3,537.00	48,660.00	- 80,890,000.00	100,900,000.00	25,310,000.00	
14,210.00	17,700.00	60,180.00	- 143,700,000.00	99,130,000.00	25,310,000.00	
14,210.00	3,537.00	48,660.00	- 80,890,000.00	100,900,000.00	25,310,000.00	
14,210.00	17,700.00	60,180.00	- 143,700,000.00	99,130,000.00	25,310,000.00	
- 693.00	3,537.00	53,700.00	- 102,900,000.00	- 8,636,000.00	- 2,864,000.00	
13,510.00	- 7,082.00	53,700.00	- 39,640,000.00	93,840,000.00	21,740,000.00	
13,510.00	10,620.00	59,460.00	- 134,300,000.00	92,970,000.00	22,090,000.00	
13,510.00	3,537.00	53,700.00	- 102,900,000.00	93,840,000.00	22,090,000.00	
13,510.00	17,700.00	65,220.00	- 165,700,000.00	92,100,000.00	22,090,000.00	
0.00	17,700.00	67,160.00	- 153,900,000.00	- 4,090,000.00	354,700.00	
0.00	17,700.00	67,160.00	- 153,900,000.00	- 4,090,000.00	354,700.00	
14,210.00	- 7,082.00	55,640.00	- 27,740,000.00	100,100,000.00	24,950,000.00	
14,210.00	7,082.00	67,160.00	- 90,570,000.00	98,390,000.00	24,950,000.00	
14,210.00	7,082.00	67,160.00	- 90,570,000.00	98,390,000.00	24,950,000.00	
14,210.00	3,537.00	55,640.00	- 91,020,000.00	100,100,000.00	25,310,000.00	
14,210.00	17,700.00	67,160.00	- 153,900,000.00	98,390,000.00	25,310,000.00	
- 693.00	17,700.00	72,200.00	- 175,900,000.00	- 11,120,000.00	- 2,864,000.00	
13,510.00	10,620.00	66,440.00	- 144,500,000.00	92,230,000.00	22,090,000.00	
13,510.00	10,620.00	66,440.00	- 144,500,000.00	92,230,000.00	22,090,000.00	
13,510.00	3,537.00	60,680.00	- 113,000,000.00	93,100,000.00	22,090,000.00	
13,510.00	17,700.00	72,200.00	- 175,900,000.00	91,350,000.00	22,090,000.00	
0.00	7,082.00	69,520.00	- 85,010,000.00	- 3,348,000.00	33.04	
0.00	17,700.00	69,520.00	- 148,300,000.00	- 3,348,000.00	354,700.00	
14,210.00	3,537.00	58,000.00	- 85,470,000.00	100,900,000.00	25,310,000.00	
14,210.00	17,700.00	69,520.00	- 148,300,000.00	99,130,000.00	25,310,000.00	
13,510.00	- 7,082.00	63,040.00	- 44,210,000.00	93,840,000.00	21,740,000.00	
13,510.00	10,620.00	68,800.00	- 138,900,000.00	92,970,000.00	22,090,000.00	
13,510.00	10,620.00	68,800.00	- 138,900,000.00	92,970,000.00	22,090,000.00	
13,510.00	3,537.00	63,040.00	- 107,500,000.00	93,840,000.00	22,090,000.00	
13,510.00	17,700.00	74,560.00	- 170,300,000.00	92,100,000.00	22,090,000.00	
0.00	7,082.00	76,510.00	- 95,140,000.00	- 4,090,000.00	37.69	
0.00	17,700.00	76,510.00	- 158,400,000.00	- 4,090,000.00	354,700.00	
0.00	3,537.00	64,990.00	- 95,600,000.00	- 2,345,000.00	354,700.00	
0.00	17,700.00	76,510.00	- 158,400,000.00	- 4,090,000.00	354,700.00	
14,210.00	3,537.00	64,990.00	- 95,600,000.00	100,100,000.00	25,310,000.00	
14,210.00	17,700.00	76,510.00	- 158,400,000.00	98,390,000.00	25,310,000.00	
14,210.00	3,537.00	64,990.00	- 95,600,000.00	100,100,000.00	25,310,000.00	
14,210.00	17,700.00	76,510.00	- 158,400,000.00	98,390,000.00	25,310,000.00	
13,510.00	- 7,082.00	70,030.00	- 54,340,000.00	93,100,000.00	21,740,000.00	
13,510.00	- 7,082.00	70,030.00	- 54,340,000.00	93,100,000.00	21,740,000.00	
13,510.00	10,620.00	75,790.00	- 149,000,000.00	92,230,000.00	22,090,000.00	
13,510.00	3,537.00	70,030.00	- 117,600,000.00	93,100,000.00	22,090,000.00	
13,510.00	17,700.00	81,550.00	- 180,500,000.00	91,350,000.00	22,090,000.00	
0.00	17,700.00	64,540.00	- 156,800,000.00	- 3,347,000.00	354,700.00	
14,210.00	- 7,082.00	48,660.00	- 17,610,000.00	100,900,000.00	24,950,000.00	
14,210.00	7,082.00	60,180.00	- 80,440,000.00	99,130,000.00	24,950,000.00	
14,210.00	- 7,082.00	48,660.00	- 17,610,000.00	100,900,000.00	24,950,000.00	
14,210.00	7,082.00	60,180.00	- 80,440,000.00	99,130,000.00	24,950,000.00	
14,210.00	7,082.00	64,540.00	- 93,480,000.00	99,130,000.00	24,950,000.00	
14,210.00	- 7,082.00	53,020.00	- 30,660,000.00	100,900,000.00	24,950,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 88 di 215

Reazioni vincolari - STR A1											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
	14,210.00		17,700.00		60,180.00	-	143,700,000.00		99,130,000.00		25,310,000.00
	14,210.00		3,537.00		53,020.00	-	93,940,000.00		100,900,000.00		25,310,000.00
	14,210.00		17,700.00		64,540.00	-	156,800,000.00		99,130,000.00		25,310,000.00
	14,210.00		3,537.00		53,020.00	-	93,940,000.00		100,900,000.00		25,310,000.00
	14,210.00		17,700.00		64,540.00	-	156,800,000.00		99,130,000.00		25,310,000.00
-	693.00		3,537.00		53,700.00	-	102,900,000.00	-	8,636,000.00	-	2,864,000.00
-	693.00		3,537.00		58,060.00	-	116,000,000.00	-	8,636,000.00	-	2,864,000.00
	13,510.00		7,082.00		65,220.00	-	102,500,000.00		92,100,000.00		21,740,000.00
	13,510.00		10,620.00		59,460.00	-	134,300,000.00		92,970,000.00		22,090,000.00
	13,510.00		10,620.00		63,820.00	-	147,400,000.00		92,970,000.00		22,090,000.00
	13,510.00		10,620.00		63,820.00	-	147,400,000.00		92,970,000.00		22,090,000.00
	13,510.00		3,537.00		53,700.00	-	102,900,000.00		93,840,000.00		22,090,000.00
	13,510.00		17,700.00		65,220.00	-	165,700,000.00		92,100,000.00		22,090,000.00
	13,510.00		17,700.00		65,220.00	-	165,700,000.00		92,100,000.00		22,090,000.00
	13,510.00		3,537.00		58,060.00	-	116,000,000.00		93,840,000.00		22,090,000.00
	13,510.00		17,700.00		69,580.00	-	178,800,000.00		92,100,000.00		22,090,000.00
	13,510.00		3,537.00		58,060.00	-	116,000,000.00		93,840,000.00		22,090,000.00
	13,510.00		17,700.00		69,580.00	-	178,800,000.00		92,100,000.00		22,090,000.00
0.00	-		7,082.00		60,000.00	-	40,790,000.00	-	2,345,000.00		24.89
0.00			7,082.00		71,520.00	-	103,600,000.00	-	4,090,000.00		41.90
0.00			3,537.00		60,000.00	-	104,100,000.00	-	2,345,000.00		354,700.00
0.00			17,700.00		71,520.00	-	166,900,000.00	-	4,090,000.00		354,700.00
0.00			17,700.00		71,520.00	-	166,900,000.00	-	4,090,000.00		354,700.00
14,210.00	-		7,082.00		60,000.00	-	40,790,000.00		100,100,000.00		24,950,000.00
14,210.00			7,082.00		71,520.00	-	103,600,000.00		98,390,000.00		24,950,000.00
14,210.00			3,537.00		55,640.00	-	91,020,000.00		100,100,000.00		25,310,000.00
14,210.00			17,700.00		67,160.00	-	153,900,000.00		98,390,000.00		25,310,000.00
14,210.00			3,537.00		60,000.00	-	104,100,000.00		100,100,000.00		25,310,000.00
14,210.00			17,700.00		71,520.00	-	166,900,000.00		98,390,000.00		25,310,000.00
14,210.00			3,537.00		60,000.00	-	104,100,000.00		100,100,000.00		25,310,000.00
14,210.00			17,700.00		71,520.00	-	166,900,000.00		98,390,000.00		25,310,000.00
-	693.00		3,537.00		65,040.00	-	126,100,000.00	-	9,378,000.00	-	2,864,000.00
	13,510.00		10,620.00		66,440.00	-	144,500,000.00		92,230,000.00		22,090,000.00
	13,510.00		10,620.00		70,800.00	-	157,500,000.00		92,230,000.00		22,090,000.00
	13,510.00		10,620.00		70,800.00	-	157,500,000.00		92,230,000.00		22,090,000.00
	13,510.00		3,537.00		60,680.00	-	113,000,000.00		93,100,000.00		22,090,000.00
	13,510.00		17,700.00		72,200.00	-	175,900,000.00		91,350,000.00		22,090,000.00
	13,510.00		17,700.00		72,200.00	-	175,900,000.00		91,350,000.00		22,090,000.00
	13,510.00		3,537.00		65,040.00	-	126,100,000.00		93,100,000.00		22,090,000.00
	13,510.00		17,700.00		76,560.00	-	188,900,000.00		91,350,000.00		22,090,000.00
	13,510.00		3,537.00		65,040.00	-	126,100,000.00		93,100,000.00		22,090,000.00
	13,510.00		17,700.00		76,560.00	-	188,900,000.00		91,350,000.00		22,090,000.00
0.00	-		7,082.00		58,000.00	-	22,190,000.00	-	1,603,000.00		16.32
0.00			7,082.00		69,520.00	-	85,010,000.00	-	3,348,000.00		33.33
0.00			3,537.00		62,360.00	-	98,510,000.00	-	1,603,000.00		354,700.00
0.00			17,700.00		73,880.00	-	161,300,000.00	-	3,348,000.00		354,700.00
0.00			3,537.00		62,360.00	-	98,510,000.00	-	1,603,000.00		354,700.00
0.00			17,700.00		73,880.00	-	161,300,000.00	-	3,348,000.00		354,700.00
14,210.00			7,082.00		69,520.00	-	85,010,000.00		99,130,000.00		24,950,000.00
14,210.00			7,082.00		73,880.00	-	98,060,000.00		99,130,000.00		24,950,000.00
14,210.00	-		7,082.00		62,360.00	-	35,230,000.00		100,900,000.00		24,950,000.00
14,210.00			3,537.00		58,000.00	-	85,470,000.00		100,900,000.00		25,310,000.00
14,210.00			3,537.00		62,360.00	-	98,510,000.00		100,900,000.00		25,310,000.00
14,210.00			17,700.00		73,880.00	-	161,300,000.00		99,130,000.00		25,310,000.00
14,210.00			3,537.00		62,360.00	-	98,510,000.00		100,900,000.00		25,310,000.00



<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 89 di 215

Reazioni vincolari - STR A1											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
	14,210.00		17,700.00		73,880.00	-	161,300,000.00		99,130,000.00		25,310,000.00
-	693.00	-	7,082.00		67,400.00	-	57,260,000.00	-	8,636,000.00	-	3,219,000.00
-	693.00		7,082.00		78,920.00	-	120,100,000.00	-	10,380,000.00	-	3,219,000.00
-	693.00		3,537.00		63,040.00	-	107,500,000.00	-	8,636,000.00	-	2,864,000.00
-	693.00		17,700.00		74,560.00	-	170,300,000.00	-	10,380,000.00	-	2,864,000.00
-	693.00		3,537.00		67,400.00	-	120,500,000.00	-	8,636,000.00	-	2,864,000.00
	13,510.00		7,082.00		78,920.00	-	120,100,000.00		92,100,000.00		21,740,000.00
	13,510.00	-	7,082.00		67,400.00	-	57,260,000.00		93,840,000.00		21,740,000.00
	13,510.00		10,620.00		68,800.00	-	138,900,000.00		92,970,000.00		22,090,000.00
	13,510.00		10,620.00		73,160.00	-	152,000,000.00		92,970,000.00		22,090,000.00
	13,510.00		10,620.00		73,160.00	-	152,000,000.00		92,970,000.00		22,090,000.00
	13,510.00		3,537.00		63,040.00	-	107,500,000.00		93,840,000.00		22,090,000.00
	13,510.00		17,700.00		74,560.00	-	170,300,000.00		92,100,000.00		22,090,000.00
	13,510.00		3,537.00		63,040.00	-	107,500,000.00		93,840,000.00		22,090,000.00
	13,510.00		17,700.00		74,560.00	-	170,300,000.00		92,100,000.00		22,090,000.00
	13,510.00		3,537.00		67,400.00	-	120,500,000.00		93,840,000.00		22,090,000.00
	13,510.00		17,700.00		78,920.00	-	183,400,000.00		92,100,000.00		22,090,000.00
	13,510.00		3,537.00		67,400.00	-	120,500,000.00		93,840,000.00		22,090,000.00
	13,510.00		17,700.00		78,920.00	-	183,400,000.00		92,100,000.00		22,090,000.00
	0.00		7,082.00		76,510.00	-	95,140,000.00	-	4,090,000.00		37.84
	0.00	-	7,082.00		64,990.00	-	32,320,000.00	-	2,345,000.00		20.98
	0.00		7,082.00		76,510.00	-	95,140,000.00	-	4,090,000.00		37.99
	0.00		3,537.00		69,340.00	-	108,600,000.00	-	2,345,000.00		354,700.00
	0.00		17,700.00		80,860.00	-	171,500,000.00	-	4,090,000.00		354,700.00
	14,210.00	-	7,082.00		64,990.00	-	32,320,000.00		100,100,000.00		24,950,000.00
	14,210.00	-	7,082.00		69,340.00	-	45,360,000.00		100,100,000.00		24,950,000.00
	14,210.00	-	7,082.00		69,340.00	-	45,360,000.00		100,100,000.00		24,950,000.00
	14,210.00		3,537.00		64,990.00	-	95,600,000.00		100,100,000.00		25,310,000.00
	14,210.00		3,537.00		69,340.00	-	108,600,000.00		100,100,000.00		25,310,000.00
	14,210.00		17,700.00		80,860.00	-	171,500,000.00		98,390,000.00		25,310,000.00
	14,210.00		3,537.00		69,340.00	-	108,600,000.00		100,100,000.00		25,310,000.00
	14,210.00		17,700.00		80,860.00	-	171,500,000.00		98,390,000.00		25,310,000.00
-	693.00	-	7,082.00		70,030.00	-	54,340,000.00	-	9,378,000.00	-	3,219,000.00
-	693.00	-	7,082.00		74,380.00	-	67,390,000.00	-	9,378,000.00	-	3,219,000.00
-	693.00		3,537.00		70,030.00	-	117,600,000.00	-	9,378,000.00	-	2,864,000.00
-	693.00		17,700.00		81,550.00	-	180,500,000.00	-	11,120,000.00	-	2,864,000.00
-	693.00		3,537.00		74,380.00	-	130,700,000.00	-	9,378,000.00	-	2,864,000.00
-	693.00		17,700.00		85,900.00	-	193,500,000.00	-	11,120,000.00	-	2,864,000.00
-	693.00		3,537.00		74,380.00	-	130,700,000.00	-	9,378,000.00	-	2,864,000.00
	13,510.00	-	7,082.00		70,030.00	-	54,340,000.00		93,100,000.00		21,740,000.00
	13,510.00		10,620.00		80,140.00	-	162,100,000.00		92,230,000.00		22,090,000.00
	13,510.00		10,620.00		80,140.00	-	162,100,000.00		92,230,000.00		22,090,000.00
	13,510.00		3,537.00		74,380.00	-	130,700,000.00		93,100,000.00		22,090,000.00
	13,510.00		17,700.00		85,900.00	-	193,500,000.00		91,350,000.00		22,090,000.00
	13,510.00		3,537.00		74,380.00	-	130,700,000.00		93,100,000.00		22,090,000.00
	13,510.00		17,700.00		85,900.00	-	193,500,000.00		91,350,000.00		22,090,000.00
-	0.00	-	18,620.00		48,660.00		52,890,000.00	-	1,603,000.00	-	354,600.00
	14,210.00	-	18,620.00		48,660.00		52,890,000.00		100,900,000.00		24,600,000.00
	14,210.00	-	4,460.00		60,180.00	-	9,941,000.00		99,130,000.00		24,600,000.00
-	693.00	-	7,082.00		53,700.00	-	39,640,000.00	-	8,636,000.00	-	3,219,000.00
-	693.00		7,082.00		65,220.00	-	102,500,000.00	-	10,380,000.00	-	3,219,000.00
-	693.00	-	18,620.00		53,700.00		30,860,000.00	-	8,636,000.00	-	3,574,000.00
-	693.00	-	4,460.00		65,220.00	-	31,970,000.00	-	10,380,000.00	-	3,574,000.00
	13,510.00	-	18,620.00		53,700.00		30,860,000.00		93,840,000.00		21,380,000.00
	13,510.00	-	4,459.00		65,220.00	-	31,970,000.00		92,100,000.00		21,380,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 90 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
14,210.00	-	18,620.00	55,640.00	42,750,000.00	100,100,000.00	24,600,000.00				
14,210.00	-	18,620.00	55,640.00	42,750,000.00	100,100,000.00	24,600,000.00				
14,210.00	-	4,460.00	67,160.00	- 20,070,000.00	98,390,000.00	24,600,000.00				
13,510.00	-	11,540.00	66,440.00	- 10,680,000.00	92,230,000.00	21,380,000.00				
14,210.00	-	18,620.00	58,000.00	48,310,000.00	100,900,000.00	24,600,000.00				
14,210.00	-	4,460.00	69,520.00	- 14,520,000.00	99,130,000.00	24,600,000.00				
14,210.00	-	18,620.00	58,000.00	48,310,000.00	100,900,000.00	24,600,000.00				
14,210.00	-	4,460.00	69,520.00	- 14,520,000.00	99,130,000.00	24,600,000.00				
13,510.00	-	7,082.00	63,040.00	- 44,210,000.00	93,840,000.00	21,740,000.00				
13,510.00	-	18,620.00	63,040.00	26,280,000.00	93,840,000.00	21,380,000.00				
13,510.00	-	18,620.00	63,040.00	26,280,000.00	93,840,000.00	21,380,000.00				
13,510.00	-	4,459.00	74,560.00	- 36,540,000.00	92,100,000.00	21,380,000.00				
0.00	-	4,460.00	76,510.00	- 24,650,000.00	- 4,090,000.00	- 354,600.00				
14,210.00	-	18,620.00	64,990.00	38,180,000.00	100,100,000.00	24,600,000.00				
14,210.00	-	18,620.00	64,990.00	38,180,000.00	100,100,000.00	24,600,000.00				
14,210.00	-	4,459.00	76,510.00	- 24,650,000.00	98,390,000.00	24,600,000.00				
-	693.00	-	18,620.00	70,030.00	16,150,000.00	- 9,378,000.00	- 3,574,000.00			
-	693.00	-	18,620.00	70,030.00	16,150,000.00	- 9,378,000.00	- 3,574,000.00			
13,510.00	-	7,082.00	81,550.00	- 117,200,000.00	91,350,000.00	21,740,000.00				
13,510.00	-	11,540.00	75,790.00	- 15,260,000.00	92,230,000.00	21,380,000.00				
13,510.00	-	18,620.00	70,030.00	16,150,000.00	93,100,000.00	21,380,000.00				
0.00	-	18,620.00	48,660.00	52,890,000.00	- 1,603,000.00	- 354,600.00				
0.00	-	4,460.00	60,180.00	- 9,940,000.00	- 3,348,000.00	- 354,600.00				
14,210.00	-	7,082.00	48,660.00	- 17,610,000.00	100,900,000.00	24,950,000.00				
14,210.00	-	7,082.00	60,180.00	- 80,440,000.00	99,130,000.00	24,950,000.00				
14,210.00	-	18,620.00	48,660.00	52,890,000.00	100,900,000.00	24,600,000.00				
14,210.00	-	4,460.00	60,180.00	- 9,941,000.00	99,130,000.00	24,600,000.00				
-	693.00	-	18,620.00	53,700.00	30,860,000.00	- 8,636,000.00	- 3,574,000.00			
-	693.00	-	4,460.00	65,220.00	- 31,970,000.00	- 10,380,000.00	- 3,574,000.00			
13,510.00	-	7,082.00	53,700.00	- 39,640,000.00	93,840,000.00	21,740,000.00				
13,510.00	-	7,082.00	65,220.00	- 102,500,000.00	92,100,000.00	21,740,000.00				
13,510.00	-	11,540.00	59,460.00	- 552,500.00	92,970,000.00	21,380,000.00				
13,510.00	-	18,620.00	53,700.00	30,860,000.00	93,840,000.00	21,380,000.00				
13,510.00	-	18,620.00	53,700.00	30,860,000.00	93,840,000.00	21,380,000.00				
13,510.00	-	4,459.00	65,220.00	- 31,970,000.00	92,100,000.00	21,380,000.00				
0.00	-	7,082.00	55,640.00	- 27,740,000.00	- 2,345,000.00	18.57				
0.00	-	7,082.00	67,160.00	- 90,570,000.00	- 4,090,000.00	35.58				
0.00	-	18,620.00	55,640.00	42,750,000.00	- 2,345,000.00	- 354,600.00				
0.00	-	4,460.00	67,160.00	- 20,070,000.00	- 4,090,000.00	- 354,600.00				
14,210.00	-	7,082.00	55,640.00	- 27,740,000.00	100,100,000.00	24,950,000.00				
14,210.00	-	4,460.00	67,160.00	- 20,070,000.00	98,390,000.00	24,600,000.00				
14,210.00	-	18,620.00	55,640.00	42,750,000.00	100,100,000.00	24,600,000.00				
14,210.00	-	4,460.00	67,160.00	- 20,070,000.00	98,390,000.00	24,600,000.00				
-	693.00	-	7,082.00	60,680.00	- 49,770,000.00	- 9,378,000.00	- 3,219,000.00			
-	693.00	-	18,620.00	60,680.00	20,730,000.00	- 9,378,000.00	- 3,574,000.00			
-	693.00	-	4,460.00	72,200.00	- 42,100,000.00	- 11,120,000.00	- 3,574,000.00			
13,510.00	-	7,082.00	60,680.00	- 49,770,000.00	93,100,000.00	21,740,000.00				
13,510.00	-	7,082.00	72,200.00	- 112,600,000.00	91,350,000.00	21,740,000.00				
13,510.00	-	11,540.00	66,440.00	- 10,680,000.00	92,230,000.00	21,380,000.00				
13,510.00	-	18,620.00	60,680.00	20,730,000.00	93,100,000.00	21,380,000.00				
13,510.00	-	18,620.00	60,680.00	20,730,000.00	93,100,000.00	21,380,000.00				
13,510.00	-	4,459.00	72,200.00	- 42,100,000.00	91,350,000.00	21,380,000.00				
0.00	-	4,460.00	69,520.00	- 14,520,000.00	- 3,348,000.00	- 354,600.00				
14,210.00	-	7,082.00	58,000.00	- 22,190,000.00	100,900,000.00	24,950,000.00				
14,210.00	-	7,082.00	69,520.00	- 85,010,000.00	99,130,000.00	24,950,000.00				

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 91 di 215

<b>Reazioni vincolari - STR A1</b>						
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>	
14,210.00	-	18,620.00	58,000.00	48,310,000.00	100,900,000.00	24,600,000.00
14,210.00	-	4,460.00	69,520.00	- 14,520,000.00	99,130,000.00	24,600,000.00
-	693.00	7,082.00	74,560.00	- 107,000,000.00	- 10,380,000.00	- 3,219,000.00
-	693.00	- 18,620.00	63,040.00	26,290,000.00	- 8,636,000.00	- 3,574,000.00
-	693.00	- 4,460.00	74,560.00	- 36,540,000.00	- 10,380,000.00	- 3,574,000.00
-	693.00	- 18,620.00	63,040.00	26,290,000.00	- 8,636,000.00	- 3,574,000.00
-	693.00	- 4,460.00	74,560.00	- 36,540,000.00	- 10,380,000.00	- 3,574,000.00
13,510.00		7,082.00	74,560.00	- 107,000,000.00	92,100,000.00	21,740,000.00
13,510.00	-	7,082.00	63,040.00	- 44,210,000.00	93,840,000.00	21,740,000.00
13,510.00		7,082.00	74,560.00	- 107,000,000.00	92,100,000.00	21,740,000.00
13,510.00	-	11,540.00	68,800.00	- 5,128,000.00	92,970,000.00	21,380,000.00
13,510.00	-	11,540.00	68,800.00	- 5,128,000.00	92,970,000.00	21,380,000.00
13,510.00	-	4,459.00	74,560.00	- 36,540,000.00	92,100,000.00	21,380,000.00
13,510.00	-	18,620.00	63,040.00	26,280,000.00	93,840,000.00	21,380,000.00
13,510.00	-	4,459.00	74,560.00	- 36,540,000.00	92,100,000.00	21,380,000.00
0.00	-	7,082.00	64,990.00	- 32,320,000.00	- 2,345,000.00	20.83
14,210.00	-	7,082.00	64,990.00	- 32,320,000.00	100,100,000.00	24,950,000.00
14,210.00		7,082.00	76,510.00	- 95,140,000.00	98,390,000.00	24,950,000.00
14,210.00	-	18,620.00	64,990.00	38,180,000.00	100,100,000.00	24,600,000.00
14,210.00	-	4,459.00	76,510.00	- 24,650,000.00	98,390,000.00	24,600,000.00
-	693.00	- 18,620.00	70,030.00	16,150,000.00	- 9,378,000.00	- 3,574,000.00
-	693.00	- 4,459.00	81,550.00	- 46,670,000.00	- 11,120,000.00	- 3,574,000.00
13,510.00		7,082.00	81,550.00	- 117,200,000.00	91,350,000.00	21,740,000.00
13,510.00		7,082.00	81,550.00	- 117,200,000.00	91,350,000.00	21,740,000.00
13,510.00	-	11,540.00	75,790.00	- 15,260,000.00	92,230,000.00	21,380,000.00
13,510.00	-	11,540.00	75,790.00	- 15,260,000.00	92,230,000.00	21,380,000.00
13,510.00	-	18,620.00	70,030.00	16,150,000.00	93,100,000.00	21,380,000.00
13,510.00	-	4,459.00	81,550.00	- 46,670,000.00	91,350,000.00	21,380,000.00
13,510.00	-	18,620.00	70,030.00	16,150,000.00	93,100,000.00	21,380,000.00
13,510.00	-	4,459.00	81,550.00	- 46,670,000.00	91,350,000.00	21,380,000.00
0.00	-	7,082.00	53,020.00	- 30,660,000.00	- 1,603,000.00	20.08
0.00		7,082.00	64,540.00	- 93,480,000.00	- 3,347,000.00	37.09
0.00	-	4,460.00	64,540.00	- 22,990,000.00	- 3,348,000.00	- 354,600.00
14,210.00	-	7,082.00	53,020.00	- 30,660,000.00	100,900,000.00	24,950,000.00
14,210.00		7,082.00	64,540.00	- 93,480,000.00	99,130,000.00	24,950,000.00
14,210.00	-	18,620.00	48,660.00	52,890,000.00	100,900,000.00	24,600,000.00
14,210.00	-	4,460.00	60,180.00	- 9,941,000.00	99,130,000.00	24,600,000.00
14,210.00	-	18,620.00	53,020.00	39,840,000.00	100,900,000.00	24,600,000.00
14,210.00	-	4,459.00	64,540.00	- 22,990,000.00	99,130,000.00	24,600,000.00
14,210.00	-	18,620.00	53,020.00	39,840,000.00	100,900,000.00	24,600,000.00
14,210.00	-	4,459.00	64,540.00	- 22,990,000.00	99,130,000.00	24,600,000.00
-	693.00	- 4,459.00	69,580.00	- 45,010,000.00	- 10,380,000.00	- 3,574,000.00
13,510.00	-	7,082.00	53,700.00	- 39,640,000.00	93,840,000.00	21,740,000.00
13,510.00		7,082.00	65,220.00	- 102,500,000.00	92,100,000.00	21,740,000.00
13,510.00	-	7,082.00	58,060.00	- 52,680,000.00	93,840,000.00	21,740,000.00
13,510.00		7,082.00	69,580.00	- 115,500,000.00	92,100,000.00	21,740,000.00
13,510.00	-	7,082.00	58,060.00	- 52,680,000.00	93,840,000.00	21,740,000.00
13,510.00		7,082.00	69,580.00	- 115,500,000.00	92,100,000.00	21,740,000.00
13,510.00	-	11,540.00	59,460.00	- 552,500.00	92,970,000.00	21,380,000.00
13,510.00	-	11,540.00	59,460.00	- 552,500.00	92,970,000.00	21,380,000.00
13,510.00	-	11,540.00	63,820.00	- 13,600,000.00	92,970,000.00	21,380,000.00
13,510.00	-	11,540.00	63,820.00	- 13,600,000.00	92,970,000.00	21,380,000.00
13,510.00	-	4,459.00	65,220.00	- 31,970,000.00	92,100,000.00	21,380,000.00
13,510.00	-	18,620.00	58,060.00	17,810,000.00	93,840,000.00	21,380,000.00
13,510.00	-	4,459.00	69,580.00	- 45,010,000.00	92,100,000.00	21,380,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 92 di 215

<b>Reazioni vincolari - STR A1</b>						
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>	
13,510.00	-	18,620.00	58,060.00	17,810,000.00	93,840,000.00	21,380,000.00
13,510.00	-	4,459.00	69,580.00	- 45,010,000.00	92,100,000.00	21,380,000.00
0.00	-	7,082.00	60,000.00	- 40,790,000.00	- 2,345,000.00	24.74
0.00	-	7,082.00	71,520.00	- 103,600,000.00	- 4,090,000.00	41.75
14,210.00	-	7,082.00	55,640.00	- 27,740,000.00	100,100,000.00	24,950,000.00
14,210.00	-	7,082.00	71,520.00	- 103,600,000.00	98,390,000.00	24,950,000.00
14,210.00	-	7,082.00	60,000.00	- 40,790,000.00	100,100,000.00	24,950,000.00
14,210.00	-	18,620.00	60,000.00	29,710,000.00	100,100,000.00	24,600,000.00
14,210.00	-	4,459.00	71,520.00	- 33,120,000.00	98,390,000.00	24,600,000.00
14,210.00	-	18,620.00	60,000.00	29,710,000.00	100,100,000.00	24,600,000.00
14,210.00	-	4,459.00	71,520.00	- 33,120,000.00	98,390,000.00	24,600,000.00
-	693.00	- 18,620.00	65,040.00	7,683,000.00	- 9,378,000.00	- 3,574,000.00
-	693.00	- 18,620.00	65,040.00	7,683,000.00	- 9,378,000.00	- 3,574,000.00
13,510.00	-	7,082.00	65,040.00	- 62,810,000.00	93,100,000.00	21,740,000.00
13,510.00	-	7,082.00	76,560.00	- 125,600,000.00	91,350,000.00	21,740,000.00
13,510.00	-	7,082.00	65,040.00	- 62,810,000.00	93,100,000.00	21,740,000.00
13,510.00	-	7,082.00	76,560.00	- 125,600,000.00	91,350,000.00	21,740,000.00
13,510.00	-	11,540.00	66,440.00	- 10,680,000.00	92,230,000.00	21,380,000.00
13,510.00	-	11,540.00	70,800.00	- 23,730,000.00	92,230,000.00	21,380,000.00
13,510.00	-	11,540.00	70,800.00	- 23,730,000.00	92,230,000.00	21,380,000.00
13,510.00	-	4,459.00	72,200.00	- 42,100,000.00	91,350,000.00	21,380,000.00
13,510.00	-	18,620.00	60,680.00	20,730,000.00	93,100,000.00	21,380,000.00
13,510.00	-	4,459.00	72,200.00	- 42,100,000.00	91,350,000.00	21,380,000.00
13,510.00	-	18,620.00	65,040.00	7,683,000.00	93,100,000.00	21,380,000.00
13,510.00	-	4,459.00	76,560.00	- 55,140,000.00	91,350,000.00	21,380,000.00
13,510.00	-	18,620.00	65,040.00	7,683,000.00	93,100,000.00	21,380,000.00
13,510.00	-	4,459.00	76,560.00	- 55,140,000.00	91,350,000.00	21,380,000.00
-	0.00	- 18,620.00	58,000.00	48,310,000.00	- 1,603,000.00	- 354,600.00
0.00	-	18,620.00	62,360.00	35,260,000.00	- 1,603,000.00	- 354,600.00
0.00	-	4,460.00	73,880.00	- 27,560,000.00	- 3,348,000.00	- 354,600.00
14,210.00	-	7,082.00	58,000.00	- 22,190,000.00	100,900,000.00	24,950,000.00
14,210.00	-	7,082.00	62,360.00	- 35,230,000.00	100,900,000.00	24,950,000.00
14,210.00	-	7,082.00	73,880.00	- 98,060,000.00	99,130,000.00	24,950,000.00
14,210.00	-	18,620.00	62,360.00	35,260,000.00	100,900,000.00	24,600,000.00
14,210.00	-	4,459.00	73,880.00	- 27,560,000.00	99,130,000.00	24,600,000.00
14,210.00	-	18,620.00	62,360.00	35,260,000.00	100,900,000.00	24,600,000.00
14,210.00	-	4,459.00	73,880.00	- 27,560,000.00	99,130,000.00	24,600,000.00
-	693.00	- 7,082.00	67,400.00	- 57,260,000.00	- 8,636,000.00	- 3,219,000.00
-	693.00	- 18,620.00	67,400.00	13,240,000.00	- 8,636,000.00	- 3,574,000.00
-	693.00	- 4,459.00	78,920.00	- 49,590,000.00	- 10,380,000.00	- 3,574,000.00
13,510.00	-	7,082.00	67,400.00	- 57,260,000.00	93,840,000.00	21,740,000.00
13,510.00	-	7,082.00	78,920.00	- 120,100,000.00	92,100,000.00	21,740,000.00
13,510.00	-	11,540.00	68,800.00	- 5,128,000.00	92,970,000.00	21,380,000.00
13,510.00	-	11,540.00	73,160.00	- 18,170,000.00	92,970,000.00	21,380,000.00
13,510.00	-	11,540.00	73,160.00	- 18,170,000.00	92,970,000.00	21,380,000.00
13,510.00	-	18,620.00	67,400.00	13,240,000.00	93,840,000.00	21,380,000.00
13,510.00	-	4,459.00	78,920.00	- 49,590,000.00	92,100,000.00	21,380,000.00
13,510.00	-	18,620.00	67,400.00	13,240,000.00	93,840,000.00	21,380,000.00
13,510.00	-	4,459.00	78,920.00	- 49,590,000.00	92,100,000.00	21,380,000.00
0.00	-	7,082.00	69,340.00	- 45,360,000.00	- 2,345,000.00	27.00
0.00	-	18,620.00	69,340.00	25,130,000.00	- 2,345,000.00	- 354,600.00
0.00	-	18,620.00	69,340.00	25,130,000.00	- 2,345,000.00	- 354,600.00
14,210.00	-	7,082.00	76,510.00	- 95,140,000.00	98,390,000.00	24,950,000.00
14,210.00	-	7,082.00	64,990.00	- 32,320,000.00	100,100,000.00	24,950,000.00
14,210.00	-	7,082.00	76,510.00	- 95,140,000.00	98,390,000.00	24,950,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 93 di 215

Reazioni vincolari - STR A1						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
14,210.00	7,082.00	80,860.00	- 108,200,000.00	98,390,000.00	24,950,000.00	
14,210.00	7,082.00	80,860.00	- 108,200,000.00	98,390,000.00	24,950,000.00	
14,210.00	- 4,459.00	76,510.00	- 24,650,000.00	98,390,000.00	24,600,000.00	
14,210.00	- 18,620.00	69,340.00	25,130,000.00	100,100,000.00	24,600,000.00	
14,210.00	- 4,459.00	80,860.00	- 37,690,000.00	98,390,000.00	24,600,000.00	
14,210.00	- 18,620.00	69,340.00	25,130,000.00	100,100,000.00	24,600,000.00	
14,210.00	- 4,459.00	80,860.00	- 37,690,000.00	98,390,000.00	24,600,000.00	
- 693.00	- 7,082.00	74,380.00	- 67,390,000.00	- 9,378,000.00	- 3,219,000.00	
- 693.00	- 4,459.00	81,550.00	- 46,670,000.00	- 11,120,000.00	- 3,574,000.00	
- 693.00	- 18,620.00	74,380.00	3,107,000.00	- 9,378,000.00	- 3,574,000.00	
- 693.00	- 4,459.00	85,900.00	- 59,720,000.00	- 11,120,000.00	- 3,574,000.00	
13,510.00	- 7,082.00	74,380.00	- 67,390,000.00	93,100,000.00	21,740,000.00	
13,510.00	7,082.00	85,900.00	- 130,200,000.00	91,350,000.00	21,740,000.00	
13,510.00	- 7,082.00	74,380.00	- 67,390,000.00	93,100,000.00	21,740,000.00	
13,510.00	7,082.00	85,900.00	- 130,200,000.00	91,350,000.00	21,740,000.00	
13,510.00	- 11,540.00	80,140.00	- 28,310,000.00	92,230,000.00	21,380,000.00	
13,510.00	- 11,540.00	80,140.00	- 28,310,000.00	92,230,000.00	21,380,000.00	
13,510.00	- 4,459.00	81,550.00	- 46,670,000.00	91,350,000.00	21,380,000.00	
13,510.00	- 18,620.00	74,380.00	3,107,000.00	93,100,000.00	21,380,000.00	
13,510.00	- 4,459.00	85,900.00	- 59,720,000.00	91,350,000.00	21,380,000.00	
13,510.00	- 18,620.00	74,380.00	3,107,000.00	93,100,000.00	21,380,000.00	
13,510.00	- 4,459.00	85,900.00	- 59,720,000.00	91,350,000.00	21,380,000.00	
- 14,210.00	3,537.00	48,660.00	- 80,890,000.00	- 104,100,000.00	- 24,600,000.00	
- 14,210.00	17,700.00	60,180.00	- 143,700,000.00	- 105,800,000.00	- 24,600,000.00	
- 14,900.00	10,620.00	59,460.00	- 134,300,000.00	- 112,000,000.00	- 27,820,000.00	
- 14,900.00	10,620.00	59,460.00	- 134,300,000.00	- 112,000,000.00	- 27,820,000.00	
0.00	7,082.00	67,160.00	- 90,570,000.00	- 4,090,000.00	35.73	
0.00	3,537.00	55,640.00	- 91,020,000.00	- 2,345,000.00	354,700.00	
- 14,210.00	- 7,082.00	55,640.00	- 27,740,000.00	- 104,800,000.00	- 24,950,000.00	
- 14,210.00	3,537.00	55,640.00	- 91,020,000.00	- 104,800,000.00	- 24,600,000.00	
- 14,210.00	3,537.00	55,640.00	- 91,020,000.00	- 104,800,000.00	- 24,600,000.00	
- 14,210.00	17,700.00	67,160.00	- 153,900,000.00	- 106,600,000.00	- 24,600,000.00	
- 693.00	- 7,082.00	60,680.00	- 49,770,000.00	- 9,378,000.00	- 3,219,000.00	
- 693.00	7,082.00	72,200.00	- 112,600,000.00	- 11,120,000.00	- 3,219,000.00	
- 693.00	3,537.00	60,680.00	- 113,000,000.00	- 9,378,000.00	- 2,864,000.00	
- 14,900.00	- 7,082.00	60,680.00	- 49,770,000.00	- 111,900,000.00	- 28,170,000.00	
- 14,900.00	7,082.00	72,200.00	- 112,600,000.00	- 113,600,000.00	- 28,170,000.00	
- 14,900.00	3,537.00	60,680.00	- 113,000,000.00	- 111,900,000.00	- 27,820,000.00	
0.00	- 7,082.00	58,000.00	- 22,190,000.00	- 1,603,000.00	16.18	
0.00	7,082.00	69,520.00	- 85,010,000.00	- 3,348,000.00	33.18	
- 14,210.00	7,082.00	69,520.00	- 85,010,000.00	- 105,800,000.00	- 24,950,000.00	
- 14,210.00	- 7,082.00	58,000.00	- 22,190,000.00	- 104,100,000.00	- 24,950,000.00	
- 14,210.00	7,082.00	69,520.00	- 85,010,000.00	- 105,800,000.00	- 24,950,000.00	
- 14,900.00	3,537.00	63,040.00	- 107,500,000.00	- 111,100,000.00	- 27,820,000.00	
- 14,900.00	17,700.00	74,560.00	- 170,300,000.00	- 112,900,000.00	- 27,820,000.00	
- 14,210.00	3,537.00	64,990.00	- 95,600,000.00	- 104,800,000.00	- 24,600,000.00	
- 14,210.00	17,700.00	76,510.00	- 158,400,000.00	- 106,600,000.00	- 24,600,000.00	
- 693.00	17,700.00	81,550.00	- 180,500,000.00	- 11,120,000.00	- 2,864,000.00	
- 14,900.00	10,620.00	75,790.00	- 149,000,000.00	- 112,700,000.00	- 27,820,000.00	
- 14,900.00	3,537.00	70,030.00	- 117,600,000.00	- 111,900,000.00	- 27,820,000.00	
- 14,900.00	3,537.00	70,030.00	- 117,600,000.00	- 111,900,000.00	- 27,820,000.00	
0.00	3,537.00	48,660.00	- 80,890,000.00	- 1,603,000.00	354,700.00	
0.00	17,700.00	60,180.00	- 143,700,000.00	- 3,347,000.00	354,700.00	
- 14,210.00	- 7,082.00	48,660.00	- 17,610,000.00	- 104,100,000.00	- 24,950,000.00	
- 14,210.00	7,082.00	60,180.00	- 80,440,000.00	- 105,800,000.00	- 24,950,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 94 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,210.00		3,537.00		48,660.00	- 80,890,000.00	-	104,100,000.00	-	24,600,000.00
-	14,210.00		17,700.00		60,180.00	- 143,700,000.00	-	105,800,000.00	-	24,600,000.00
-	14,210.00		3,537.00		48,660.00	- 80,890,000.00	-	104,100,000.00	-	24,600,000.00
-	14,210.00		17,700.00		60,180.00	- 143,700,000.00	-	105,800,000.00	-	24,600,000.00
-	693.00		7,082.00		65,220.00	- 102,500,000.00	-	10,380,000.00	-	3,219,000.00
-	693.00		17,700.00		65,220.00	- 165,700,000.00	-	10,380,000.00	-	2,864,000.00
-	693.00		17,700.00		65,220.00	- 165,700,000.00	-	10,380,000.00	-	2,864,000.00
-	14,900.00	-	7,082.00		53,700.00	- 39,640,000.00	-	111,100,000.00	-	28,170,000.00
-	14,900.00		7,082.00		65,220.00	- 102,500,000.00	-	112,900,000.00	-	28,170,000.00
-	14,900.00		10,620.00		59,460.00	- 134,300,000.00	-	112,000,000.00	-	27,820,000.00
-	14,900.00		3,537.00		53,700.00	- 102,900,000.00	-	111,100,000.00	-	27,820,000.00
-	14,900.00		17,700.00		65,220.00	- 165,700,000.00	-	112,900,000.00	-	27,820,000.00
	0.00		3,537.00		55,640.00	- 91,020,000.00	-	2,345,000.00		354,700.00
-	14,210.00	-	7,082.00		55,640.00	- 27,740,000.00	-	104,800,000.00	-	24,950,000.00
-	14,210.00		7,082.00		67,160.00	- 90,570,000.00	-	106,600,000.00	-	24,950,000.00
-	14,210.00		17,700.00		67,160.00	- 153,900,000.00	-	106,600,000.00	-	24,600,000.00
-	14,210.00		3,537.00		55,640.00	- 91,020,000.00	-	104,800,000.00	-	24,600,000.00
-	14,210.00		17,700.00		67,160.00	- 153,900,000.00	-	106,600,000.00	-	24,600,000.00
-	693.00		7,082.00		72,200.00	- 112,600,000.00	-	11,120,000.00	-	3,219,000.00
-	693.00		3,537.00		60,680.00	- 113,000,000.00	-	9,378,000.00	-	2,864,000.00
-	14,900.00	-	7,082.00		60,680.00	- 49,770,000.00	-	111,900,000.00	-	28,170,000.00
-	14,900.00		7,082.00		72,200.00	- 112,600,000.00	-	113,600,000.00	-	28,170,000.00
-	14,900.00		10,620.00		66,440.00	- 144,500,000.00	-	112,700,000.00	-	27,820,000.00
-	14,900.00		10,620.00		66,440.00	- 144,500,000.00	-	112,700,000.00	-	27,820,000.00
-	14,900.00		17,700.00		72,200.00	- 175,900,000.00	-	113,600,000.00	-	27,820,000.00
-	14,900.00		3,537.00		60,680.00	- 113,000,000.00	-	111,900,000.00	-	27,820,000.00
-	14,900.00		17,700.00		72,200.00	- 175,900,000.00	-	113,600,000.00	-	27,820,000.00
	0.00	-	7,082.00		58,000.00	- 22,190,000.00	-	1,603,000.00		16.03
	0.00		3,537.00		58,000.00	- 85,470,000.00	-	1,603,000.00		354,700.00
-	14,210.00	-	7,082.00		58,000.00	- 22,190,000.00	-	104,100,000.00	-	24,950,000.00
-	14,210.00		7,082.00		69,520.00	- 85,010,000.00	-	105,800,000.00	-	24,950,000.00
-	14,210.00		3,537.00		58,000.00	- 85,470,000.00	-	104,100,000.00	-	24,600,000.00
-	14,210.00		17,700.00		69,520.00	- 148,300,000.00	-	105,800,000.00	-	24,600,000.00
-	693.00		3,537.00		63,040.00	- 107,500,000.00	-	8,636,000.00	-	2,864,000.00
-	693.00		17,700.00		74,560.00	- 170,300,000.00	-	10,380,000.00	-	2,864,000.00
-	14,900.00		7,082.00		74,560.00	- 107,000,000.00	-	112,900,000.00	-	28,170,000.00
-	14,900.00		10,620.00		68,800.00	- 138,900,000.00	-	112,000,000.00	-	27,820,000.00
-	14,900.00		3,537.00		63,040.00	- 107,500,000.00	-	111,100,000.00	-	27,820,000.00
-	14,900.00		3,537.00		63,040.00	- 107,500,000.00	-	111,100,000.00	-	27,820,000.00
-	14,900.00		17,700.00		74,560.00	- 170,300,000.00	-	112,900,000.00	-	27,820,000.00
-	14,210.00		17,700.00		76,510.00	- 158,400,000.00	-	106,600,000.00	-	24,600,000.00
-	14,210.00		3,537.00		64,990.00	- 95,600,000.00	-	104,800,000.00	-	24,600,000.00
-	14,210.00		17,700.00		76,510.00	- 158,400,000.00	-	106,600,000.00	-	24,600,000.00
-	693.00		3,537.00		70,030.00	- 117,600,000.00	-	9,378,000.00	-	2,864,000.00
-	693.00		17,700.00		81,550.00	- 180,500,000.00	-	11,120,000.00	-	2,864,000.00
-	14,900.00	-	7,082.00		70,030.00	- 54,340,000.00	-	111,900,000.00	-	28,170,000.00
-	14,900.00		7,082.00		81,550.00	- 117,200,000.00	-	113,600,000.00	-	28,170,000.00
-	14,900.00		10,620.00		75,790.00	- 149,000,000.00	-	112,700,000.00	-	27,820,000.00
-	14,900.00		10,620.00		75,790.00	- 149,000,000.00	-	112,700,000.00	-	27,820,000.00
-	14,900.00		3,537.00		70,030.00	- 117,600,000.00	-	111,900,000.00	-	27,820,000.00
-	14,900.00		17,700.00		81,550.00	- 180,500,000.00	-	113,600,000.00	-	27,820,000.00
	0.00	-	7,082.00		48,660.00	- 17,610,000.00	-	1,603,000.00		14.21
	0.00		7,082.00		60,180.00	- 80,440,000.00	-	3,347,000.00		31.22
	0.00		17,700.00		60,180.00	- 143,700,000.00	-	3,347,000.00		354,700.00
	0.00		3,537.00		48,660.00	- 80,890,000.00	-	1,603,000.00		354,700.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 95 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
	0.00		17,700.00		60,180.00	-	143,700,000.00	-	3,347,000.00	354,700.00
	0.00		3,537.00		53,020.00	-	93,940,000.00	-	1,603,000.00	354,700.00
	0.00		3,537.00		53,020.00	-	93,940,000.00	-	1,603,000.00	354,700.00
	0.00		17,700.00		64,540.00	-	156,800,000.00	-	3,347,000.00	354,700.00
-	14,210.00		7,082.00		64,540.00	-	93,480,000.00	-	105,800,000.00	- 24,950,000.00
-	14,210.00		3,537.00		53,020.00	-	93,940,000.00	-	104,100,000.00	- 24,600,000.00
-	14,210.00		17,700.00		64,540.00	-	156,800,000.00	-	105,800,000.00	- 24,600,000.00
-	14,210.00		3,537.00		53,020.00	-	93,940,000.00	-	104,100,000.00	- 24,600,000.00
-	14,210.00		17,700.00		64,540.00	-	156,800,000.00	-	105,800,000.00	- 24,600,000.00
-	693.00		17,700.00		65,220.00	-	165,700,000.00	-	10,380,000.00	- 2,864,000.00
-	693.00		17,700.00		69,580.00	-	178,800,000.00	-	10,380,000.00	- 2,864,000.00
-	693.00		3,537.00		58,060.00	-	116,000,000.00	-	8,636,000.00	- 2,864,000.00
-	693.00		17,700.00		69,580.00	-	178,800,000.00	-	10,380,000.00	- 2,864,000.00
-	14,900.00		7,082.00		65,220.00	-	102,500,000.00	-	112,900,000.00	- 28,170,000.00
-	14,900.00	-	7,082.00		53,700.00	-	39,640,000.00	-	111,100,000.00	- 28,170,000.00
-	14,900.00		7,082.00		65,220.00	-	102,500,000.00	-	112,900,000.00	- 28,170,000.00
-	14,900.00	-	7,082.00		58,060.00	-	52,680,000.00	-	111,100,000.00	- 28,170,000.00
-	14,900.00		7,082.00		69,580.00	-	115,500,000.00	-	112,900,000.00	- 28,170,000.00
-	14,900.00	-	7,082.00		58,060.00	-	52,680,000.00	-	111,100,000.00	- 28,170,000.00
-	14,900.00		10,620.00		63,820.00	-	147,400,000.00	-	112,000,000.00	- 27,820,000.00
-	14,900.00		10,620.00		63,820.00	-	147,400,000.00	-	112,000,000.00	- 27,820,000.00
-	14,900.00		3,537.00		53,700.00	-	102,900,000.00	-	111,100,000.00	- 27,820,000.00
-	14,900.00		17,700.00		65,220.00	-	165,700,000.00	-	112,900,000.00	- 27,820,000.00
-	14,900.00		3,537.00		53,700.00	-	102,900,000.00	-	111,100,000.00	- 27,820,000.00
-	14,900.00		17,700.00		65,220.00	-	165,700,000.00	-	112,900,000.00	- 27,820,000.00
-	14,900.00		3,537.00		58,060.00	-	116,000,000.00	-	111,100,000.00	- 27,820,000.00
-	14,900.00		17,700.00		69,580.00	-	178,800,000.00	-	112,900,000.00	- 27,820,000.00
-	14,900.00		3,537.00		58,060.00	-	116,000,000.00	-	111,100,000.00	- 27,820,000.00
-	14,900.00		17,700.00		69,580.00	-	178,800,000.00	-	112,900,000.00	- 27,820,000.00
	0.00		3,537.00		55,640.00	-	91,020,000.00	-	2,345,000.00	354,700.00
	0.00		17,700.00		67,160.00	-	153,900,000.00	-	4,090,000.00	354,700.00
	0.00		3,537.00		60,000.00	-	104,100,000.00	-	2,345,000.00	354,700.00
-	14,210.00	-	7,082.00		60,000.00	-	40,790,000.00	-	104,800,000.00	- 24,950,000.00
-	14,210.00		7,082.00		71,520.00	-	103,600,000.00	-	106,600,000.00	- 24,950,000.00
-	14,210.00		7,082.00		71,520.00	-	103,600,000.00	-	106,600,000.00	- 24,950,000.00
-	14,210.00		3,537.00		60,000.00	-	104,100,000.00	-	104,800,000.00	- 24,600,000.00
-	14,210.00		17,700.00		71,520.00	-	166,900,000.00	-	106,600,000.00	- 24,600,000.00
-	14,210.00		3,537.00		60,000.00	-	104,100,000.00	-	104,800,000.00	- 24,600,000.00
-	14,210.00		17,700.00		71,520.00	-	166,900,000.00	-	106,600,000.00	- 24,600,000.00
-	693.00	-	7,082.00		65,040.00	-	62,810,000.00	-	9,378,000.00	- 3,219,000.00
-	693.00		7,082.00		76,560.00	-	125,600,000.00	-	11,120,000.00	- 3,219,000.00
-	693.00		3,537.00		60,680.00	-	113,000,000.00	-	9,378,000.00	- 2,864,000.00
-	693.00		17,700.00		72,200.00	-	175,900,000.00	-	11,120,000.00	- 2,864,000.00
-	693.00		17,700.00		72,200.00	-	175,900,000.00	-	11,120,000.00	- 2,864,000.00
-	693.00		3,537.00		65,040.00	-	126,100,000.00	-	9,378,000.00	- 2,864,000.00
-	693.00		17,700.00		76,560.00	-	188,900,000.00	-	11,120,000.00	- 2,864,000.00
-	693.00		17,700.00		76,560.00	-	188,900,000.00	-	11,120,000.00	- 2,864,000.00
-	14,900.00	-	7,082.00		65,040.00	-	62,810,000.00	-	111,900,000.00	- 28,170,000.00
-	14,900.00	-	7,082.00		65,040.00	-	62,810,000.00	-	111,900,000.00	- 28,170,000.00
-	14,900.00		7,082.00		76,560.00	-	125,600,000.00	-	113,600,000.00	- 28,170,000.00
-	14,900.00		10,620.00		66,440.00	-	144,500,000.00	-	112,700,000.00	- 27,820,000.00
-	14,900.00		10,620.00		70,800.00	-	157,500,000.00	-	112,700,000.00	- 27,820,000.00
-	14,900.00		10,620.00		70,800.00	-	157,500,000.00	-	112,700,000.00	- 27,820,000.00
-	14,900.00		3,537.00		60,680.00	-	113,000,000.00	-	111,900,000.00	- 27,820,000.00
-	14,900.00		17,700.00		72,200.00	-	175,900,000.00	-	113,600,000.00	- 27,820,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 96 di 215

Reazioni vincolari - STR A1						
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>	
-	14,900.00	3,537.00	65,040.00	- 126,100,000.00	- 111,900,000.00	- 27,820,000.00
-	14,900.00	17,700.00	76,560.00	- 188,900,000.00	- 113,600,000.00	- 27,820,000.00
-	14,900.00	3,537.00	65,040.00	- 126,100,000.00	- 111,900,000.00	- 27,820,000.00
-	14,900.00	17,700.00	76,560.00	- 188,900,000.00	- 113,600,000.00	- 27,820,000.00
	0.00	- 7,082.00	62,360.00	- 35,230,000.00	- 1,603,000.00	22.20
	0.00	7,082.00	73,880.00	- 98,060,000.00	- 3,348,000.00	39.20
	0.00	- 7,082.00	62,360.00	- 35,230,000.00	- 1,603,000.00	22.34
	0.00	7,082.00	73,880.00	- 98,060,000.00	- 3,348,000.00	39.35
	0.00	3,537.00	58,000.00	- 85,470,000.00	- 1,603,000.00	354,700.00
	0.00	3,537.00	58,000.00	- 85,470,000.00	- 1,603,000.00	354,700.00
	0.00	17,700.00	69,520.00	- 148,300,000.00	- 3,348,000.00	354,700.00
-	14,210.00	- 7,082.00	58,000.00	- 22,190,000.00	- 104,100,000.00	- 24,950,000.00
-	14,210.00	- 7,082.00	62,360.00	- 35,230,000.00	- 104,100,000.00	- 24,950,000.00
-	14,210.00	7,082.00	73,880.00	- 98,060,000.00	- 105,800,000.00	- 24,950,000.00
-	14,210.00	- 7,082.00	62,360.00	- 35,230,000.00	- 104,100,000.00	- 24,950,000.00
-	14,210.00	3,537.00	58,000.00	- 85,470,000.00	- 104,100,000.00	- 24,600,000.00
-	14,210.00	17,700.00	69,520.00	- 148,300,000.00	- 105,800,000.00	- 24,600,000.00
-	14,210.00	3,537.00	58,000.00	- 85,470,000.00	- 104,100,000.00	- 24,600,000.00
-	14,210.00	17,700.00	69,520.00	- 148,300,000.00	- 105,800,000.00	- 24,600,000.00
-	14,210.00	3,537.00	62,360.00	- 98,510,000.00	- 104,100,000.00	- 24,600,000.00
-	14,210.00	17,700.00	73,880.00	- 161,300,000.00	- 105,800,000.00	- 24,600,000.00
-	14,210.00	3,537.00	62,360.00	- 98,510,000.00	- 104,100,000.00	- 24,600,000.00
-	14,210.00	17,700.00	73,880.00	- 161,300,000.00	- 105,800,000.00	- 24,600,000.00
-	693.00	- 7,082.00	63,040.00	- 44,210,000.00	- 8,636,000.00	- 3,219,000.00
-	693.00	7,082.00	78,920.00	- 120,100,000.00	- 10,380,000.00	- 3,219,000.00
-	693.00	3,537.00	67,400.00	- 120,500,000.00	- 8,636,000.00	- 2,864,000.00
-	693.00	17,700.00	78,920.00	- 183,400,000.00	- 10,380,000.00	- 2,864,000.00
-	693.00	17,700.00	78,920.00	- 183,400,000.00	- 10,380,000.00	- 2,864,000.00
-	14,900.00	- 7,082.00	67,400.00	- 57,260,000.00	- 111,100,000.00	- 28,170,000.00
-	14,900.00	7,082.00	78,920.00	- 120,100,000.00	- 112,900,000.00	- 28,170,000.00
-	14,900.00	10,620.00	68,800.00	- 138,900,000.00	- 112,000,000.00	- 27,820,000.00
-	14,900.00	10,620.00	68,800.00	- 138,900,000.00	- 112,000,000.00	- 27,820,000.00
-	14,900.00	10,620.00	73,160.00	- 152,000,000.00	- 112,000,000.00	- 27,820,000.00
-	14,900.00	10,620.00	73,160.00	- 152,000,000.00	- 112,000,000.00	- 27,820,000.00
-	14,900.00	17,700.00	74,560.00	- 170,300,000.00	- 112,900,000.00	- 27,820,000.00
-	14,900.00	3,537.00	67,400.00	- 120,500,000.00	- 111,100,000.00	- 27,820,000.00
-	14,900.00	17,700.00	78,920.00	- 183,400,000.00	- 112,900,000.00	- 27,820,000.00
-	14,900.00	3,537.00	67,400.00	- 120,500,000.00	- 111,100,000.00	- 27,820,000.00
-	14,900.00	17,700.00	78,920.00	- 183,400,000.00	- 112,900,000.00	- 27,820,000.00
	0.00	7,082.00	80,860.00	- 108,200,000.00	- 4,090,000.00	43.86
	0.00	7,082.00	80,860.00	- 108,200,000.00	- 4,090,000.00	44.01
	0.00	3,537.00	64,990.00	- 95,600,000.00	- 2,345,000.00	354,700.00
	0.00	3,537.00	64,990.00	- 95,600,000.00	- 2,345,000.00	354,700.00
	0.00	17,700.00	76,510.00	- 158,400,000.00	- 4,090,000.00	354,700.00
	0.00	3,537.00	69,340.00	- 108,600,000.00	- 2,345,000.00	354,700.00
	0.00	17,700.00	80,860.00	- 171,500,000.00	- 4,090,000.00	354,700.00
-	14,210.00	- 7,082.00	69,340.00	- 45,360,000.00	- 104,800,000.00	- 24,950,000.00
-	14,210.00	3,537.00	64,990.00	- 95,600,000.00	- 104,800,000.00	- 24,600,000.00
-	14,210.00	3,537.00	69,340.00	- 108,600,000.00	- 104,800,000.00	- 24,600,000.00
-	14,210.00	17,700.00	80,860.00	- 171,500,000.00	- 106,600,000.00	- 24,600,000.00
-	14,210.00	3,537.00	69,340.00	- 108,600,000.00	- 104,800,000.00	- 24,600,000.00
-	14,210.00	17,700.00	80,860.00	- 171,500,000.00	- 106,600,000.00	- 24,600,000.00
-	693.00	- 7,082.00	70,030.00	- 54,340,000.00	- 9,378,000.00	- 3,219,000.00
-	693.00	7,082.00	81,550.00	- 117,200,000.00	- 11,120,000.00	- 3,219,000.00
-	693.00	7,082.00	85,900.00	- 130,200,000.00	- 11,120,000.00	- 3,219,000.00



<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 97 di 215

Reazioni vincolari - STR A1											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	693.00		3,537.00		70,030.00	-	117,600,000.00	-	9,378,000.00	-	2,864,000.00
-	693.00		17,700.00		85,900.00	-	193,500,000.00	-	11,120,000.00	-	2,864,000.00
-	14,900.00		7,082.00		81,550.00	-	117,200,000.00	-	113,600,000.00	-	28,170,000.00
-	14,900.00		7,082.00		85,900.00	-	130,200,000.00	-	113,600,000.00	-	28,170,000.00
-	14,900.00		10,620.00		80,140.00	-	162,100,000.00	-	112,700,000.00	-	27,820,000.00
-	14,900.00		10,620.00		80,140.00	-	162,100,000.00	-	112,700,000.00	-	27,820,000.00
-	14,900.00		17,700.00		81,550.00	-	180,500,000.00	-	113,600,000.00	-	27,820,000.00
-	14,900.00		17,700.00		81,550.00	-	180,500,000.00	-	113,600,000.00	-	27,820,000.00
-	14,900.00		3,537.00		74,380.00	-	130,700,000.00	-	111,900,000.00	-	27,820,000.00
-	14,900.00		17,700.00		85,900.00	-	193,500,000.00	-	113,600,000.00	-	27,820,000.00
-	14,900.00		3,537.00		74,380.00	-	130,700,000.00	-	111,900,000.00	-	27,820,000.00
-	14,900.00		17,700.00		85,900.00	-	193,500,000.00	-	113,600,000.00	-	27,820,000.00
	0.00	-	4,460.00		60,180.00	-	9,940,000.00	-	3,348,000.00	-	354,600.00
-	14,210.00	-	7,082.00		48,660.00	-	17,610,000.00	-	104,100,000.00	-	24,950,000.00
-	14,210.00		7,082.00		60,180.00	-	80,440,000.00	-	105,800,000.00	-	24,950,000.00
-	693.00	-	7,082.00		53,700.00	-	39,640,000.00	-	8,636,000.00	-	3,219,000.00
-	693.00		7,082.00		65,220.00	-	102,500,000.00	-	10,380,000.00	-	3,219,000.00
-	693.00	-	18,620.00		53,700.00		30,860,000.00	-	8,636,000.00	-	3,574,000.00
-	14,900.00	-	11,540.00		59,460.00	-	552,200.00	-	112,000,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00		53,700.00		30,860,000.00	-	111,100,000.00	-	28,530,000.00
	0.00	-	7,082.00		55,640.00	-	27,740,000.00	-	2,345,000.00		18.87
	0.00		7,082.00		67,160.00	-	90,570,000.00	-	4,090,000.00		35.88
	0.00	-	4,460.00		67,160.00	-	20,070,000.00	-	4,090,000.00	-	354,600.00
	0.00	-	18,620.00		55,640.00	-	42,750,000.00	-	2,345,000.00	-	354,600.00
-	14,210.00	-	7,082.00		55,640.00	-	27,740,000.00	-	104,800,000.00	-	24,950,000.00
-	14,210.00		7,082.00		67,160.00	-	90,570,000.00	-	106,600,000.00	-	24,950,000.00
-	14,210.00	-	18,620.00		55,640.00		42,750,000.00	-	104,800,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00		55,640.00		42,750,000.00	-	104,800,000.00	-	25,310,000.00
-	693.00	-	18,620.00		60,680.00		20,730,000.00	-	9,378,000.00	-	3,574,000.00
-	693.00	-	4,460.00		72,200.00	-	42,100,000.00	-	11,120,000.00	-	3,574,000.00
-	14,210.00	-	4,460.00		69,520.00	-	14,520,000.00	-	105,800,000.00	-	25,310,000.00
-	693.00	-	18,620.00		63,040.00		26,290,000.00	-	8,636,000.00	-	3,574,000.00
-	14,900.00	-	7,082.00		63,040.00	-	44,210,000.00	-	111,100,000.00	-	28,170,000.00
-	14,900.00		7,082.00		74,560.00	-	107,000,000.00	-	112,900,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00		68,800.00	-	5,128,000.00	-	112,000,000.00	-	28,530,000.00
	0.00	-	18,620.00		64,990.00		38,180,000.00	-	2,345,000.00	-	354,600.00
	0.00	-	18,620.00		64,990.00		38,180,000.00	-	2,345,000.00	-	354,600.00
-	14,210.00	-	18,620.00		64,990.00		38,180,000.00	-	104,800,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00		76,510.00	-	24,650,000.00	-	106,600,000.00	-	25,310,000.00
-	693.00	-	4,459.00		81,550.00	-	46,670,000.00	-	11,120,000.00	-	3,574,000.00
-	14,900.00	-	11,540.00		75,790.00	-	15,260,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00		75,790.00	-	15,260,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00		81,550.00	-	46,670,000.00	-	113,600,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00		70,030.00		16,150,000.00	-	111,900,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00		81,550.00	-	46,670,000.00	-	113,600,000.00	-	28,530,000.00
-	0.00	-	18,620.00		48,660.00		52,890,000.00	-	1,603,000.00	-	354,600.00
	0.00	-	4,460.00		60,180.00	-	9,940,000.00	-	3,348,000.00	-	354,600.00
-	14,210.00	-	18,620.00		48,660.00		52,890,000.00	-	104,100,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00		60,180.00	-	9,940,000.00	-	105,800,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00		48,660.00		52,890,000.00	-	104,100,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00		60,180.00	-	9,940,000.00	-	105,800,000.00	-	25,310,000.00
-	693.00	-	7,082.00		53,700.00	-	39,640,000.00	-	8,636,000.00	-	3,219,000.00
-	693.00	-	4,460.00		65,220.00	-	31,970,000.00	-	10,380,000.00	-	3,574,000.00
-	14,900.00	-	7,082.00		53,700.00	-	39,640,000.00	-	111,100,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00		59,460.00	-	552,200.00	-	112,000,000.00	-	28,530,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE	<b>Progetto</b> IN17	<b>Lotto</b> 10	<b>Codifica Documento</b> EI2CLOC000006	<b>Rev.</b> A	<b>Foglio</b> 98 di 215
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>						

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,900.00	-	18,620.00	53,700.00	30,860,000.00	-	111,100,000.00	-	28,530,000.00	
-	14,900.00	-	4,460.00	65,220.00	-	31,970,000.00	-	112,900,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00	53,700.00	30,860,000.00	-	111,100,000.00	-	28,530,000.00	
-	14,900.00	-	4,460.00	65,220.00	-	31,970,000.00	-	112,900,000.00	-	28,530,000.00
-	14,210.00	-	18,620.00	55,640.00	42,750,000.00	-	104,800,000.00	-	25,310,000.00	
-	14,210.00	-	4,460.00	67,160.00	-	20,070,000.00	-	106,600,000.00	-	25,310,000.00
-	693.00	-	18,620.00	60,680.00	20,730,000.00	-	9,378,000.00	-	3,574,000.00	
-	693.00	-	4,460.00	72,200.00	-	42,100,000.00	-	111,200,000.00	-	3,574,000.00
-	14,900.00	-	7,082.00	72,200.00	-	112,600,000.00	-	113,600,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	66,440.00	-	10,680,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00	60,680.00	20,730,000.00	-	111,900,000.00	-	28,530,000.00	
-	14,900.00	-	4,460.00	72,200.00	-	42,100,000.00	-	113,600,000.00	-	28,530,000.00
0.00	-	4,460.00	69,520.00	-	14,520,000.00	-	3,348,000.00	-	354,600.00	
0.00	-	18,620.00	58,000.00	-	48,310,000.00	-	1,603,000.00	-	354,600.00	
-	14,210.00	-	18,620.00	58,000.00	48,310,000.00	-	104,100,000.00	-	25,310,000.00	
-	14,210.00	-	4,460.00	69,520.00	-	14,520,000.00	-	105,800,000.00	-	25,310,000.00
-	693.00	-	7,082.00	63,040.00	-	44,210,000.00	-	8,636,000.00	-	3,219,000.00
-	14,900.00	-	7,082.00	63,040.00	-	44,210,000.00	-	111,100,000.00	-	28,170,000.00
-	14,900.00	-	7,082.00	63,040.00	-	44,210,000.00	-	111,100,000.00	-	28,170,000.00
-	14,900.00	-	7,082.00	74,560.00	-	107,000,000.00	-	112,900,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	68,800.00	-	5,128,000.00	-	112,000,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	68,800.00	-	5,128,000.00	-	112,000,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00	74,560.00	-	36,540,000.00	-	112,900,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00	63,040.00	-	26,290,000.00	-	111,100,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00	74,560.00	-	36,540,000.00	-	112,900,000.00	-	28,530,000.00
0.00	-	7,082.00	64,990.00	-	32,320,000.00	-	2,345,000.00	-	20.69	
0.00	-	18,620.00	64,990.00	-	38,180,000.00	-	2,345,000.00	-	354,600.00	
0.00	-	4,460.00	76,510.00	-	24,650,000.00	-	4,090,000.00	-	354,600.00	
-	14,210.00	-	7,082.00	64,990.00	-	32,320,000.00	-	104,800,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00	76,510.00	-	95,140,000.00	-	106,600,000.00	-	24,950,000.00
-	14,210.00	-	18,620.00	64,990.00	38,180,000.00	-	104,800,000.00	-	25,310,000.00	
-	14,210.00	-	4,460.00	76,510.00	-	24,650,000.00	-	106,600,000.00	-	25,310,000.00
-	693.00	-	7,082.00	70,030.00	-	54,340,000.00	-	9,378,000.00	-	3,219,000.00
-	693.00	-	7,082.00	81,550.00	-	117,200,000.00	-	11,120,000.00	-	3,219,000.00
-	14,900.00	-	7,082.00	81,550.00	-	117,200,000.00	-	113,600,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	75,790.00	-	15,260,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00	70,030.00	16,150,000.00	-	111,900,000.00	-	28,530,000.00	
-	14,900.00	-	18,620.00	70,030.00	16,150,000.00	-	111,900,000.00	-	28,530,000.00	
-	14,900.00	-	4,460.00	81,550.00	-	46,670,000.00	-	113,600,000.00	-	28,530,000.00
0.00	-	7,082.00	53,020.00	-	30,660,000.00	-	1,603,000.00	-	20.23	
0.00	-	7,082.00	64,540.00	-	93,480,000.00	-	3,347,000.00	-	37.24	
0.00	-	18,620.00	53,020.00	-	39,840,000.00	-	1,603,000.00	-	354,600.00	
0.00	-	4,460.00	64,540.00	-	22,990,000.00	-	3,348,000.00	-	354,600.00	
0.00	-	18,620.00	53,020.00	-	39,840,000.00	-	1,603,000.00	-	354,600.00	
-	14,210.00	-	7,082.00	48,660.00	-	17,610,000.00	-	104,100,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00	60,180.00	-	80,440,000.00	-	105,800,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00	53,020.00	-	30,660,000.00	-	104,100,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00	53,020.00	-	30,660,000.00	-	104,100,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00	64,540.00	-	93,480,000.00	-	105,800,000.00	-	24,950,000.00
-	14,210.00	-	18,620.00	48,660.00	52,890,000.00	-	104,100,000.00	-	25,310,000.00	
-	14,210.00	-	4,460.00	60,180.00	-	9,940,000.00	-	105,800,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00	53,020.00	39,840,000.00	-	104,100,000.00	-	25,310,000.00	
-	14,210.00	-	4,460.00	64,540.00	-	22,990,000.00	-	105,800,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00	53,020.00	39,840,000.00	-	104,100,000.00	-	25,310,000.00	
-	14,210.00	-	4,460.00	64,540.00	-	22,990,000.00	-	105,800,000.00	-	25,310,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 99 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	693.00	-	7,082.00	58,060.00	-	52,680,000.00	-	8,636,000.00	-	3,219,000.00
-	693.00	-	7,082.00	69,580.00	-	115,500,000.00	-	10,380,000.00	-	3,219,000.00
-	693.00	-	7,082.00	58,060.00	-	52,680,000.00	-	8,636,000.00	-	3,219,000.00
-	693.00	-	7,082.00	69,580.00	-	115,500,000.00	-	10,380,000.00	-	3,219,000.00
-	693.00	-	18,620.00	58,060.00	-	17,810,000.00	-	8,636,000.00	-	3,574,000.00
-	693.00	-	18,620.00	58,060.00	-	17,810,000.00	-	8,636,000.00	-	3,574,000.00
-	693.00	-	4,459.00	69,580.00	-	45,010,000.00	-	10,380,000.00	-	3,574,000.00
-	14,900.00	-	7,082.00	69,580.00	-	115,500,000.00	-	112,900,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	59,460.00	-	552,200.00	-	112,000,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	63,820.00	-	13,600,000.00	-	112,000,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	63,820.00	-	13,600,000.00	-	112,000,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00	65,220.00	-	31,970,000.00	-	112,900,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00	58,060.00	-	17,810,000.00	-	111,100,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00	69,580.00	-	45,010,000.00	-	112,900,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00	58,060.00	-	17,810,000.00	-	111,100,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00	69,580.00	-	45,010,000.00	-	112,900,000.00	-	28,530,000.00
	0.00	-	18,620.00	55,640.00	-	42,750,000.00	-	2,345,000.00	-	354,600.00
	0.00	-	4,460.00	67,160.00	-	20,070,000.00	-	4,090,000.00	-	354,600.00
	0.00	-	18,620.00	60,000.00	-	29,710,000.00	-	2,345,000.00	-	354,600.00
	0.00	-	4,460.00	71,520.00	-	33,120,000.00	-	4,090,000.00	-	354,600.00
	0.00	-	18,620.00	60,000.00	-	29,710,000.00	-	2,345,000.00	-	354,600.00
	0.00	-	4,460.00	71,520.00	-	33,120,000.00	-	4,090,000.00	-	354,600.00
-	14,210.00	-	7,082.00	67,160.00	-	90,570,000.00	-	106,600,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00	60,000.00	-	40,790,000.00	-	104,800,000.00	-	24,950,000.00
-	14,210.00	-	4,460.00	67,160.00	-	20,070,000.00	-	106,600,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00	67,160.00	-	20,070,000.00	-	106,600,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00	60,000.00	-	29,710,000.00	-	104,800,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00	71,520.00	-	33,120,000.00	-	106,600,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00	60,000.00	-	29,710,000.00	-	104,800,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00	71,520.00	-	33,120,000.00	-	106,600,000.00	-	25,310,000.00
-	693.00	-	7,082.00	60,680.00	-	49,770,000.00	-	9,378,000.00	-	3,219,000.00
-	693.00	-	7,082.00	72,200.00	-	112,600,000.00	-	11,120,000.00	-	3,219,000.00
-	693.00	-	7,082.00	65,040.00	-	62,810,000.00	-	9,378,000.00	-	3,219,000.00
-	693.00	-	7,082.00	76,560.00	-	125,600,000.00	-	11,120,000.00	-	3,219,000.00
-	693.00	-	4,459.00	76,560.00	-	55,140,000.00	-	11,120,000.00	-	3,574,000.00
-	693.00	-	4,459.00	76,560.00	-	55,140,000.00	-	11,120,000.00	-	3,574,000.00
-	14,900.00	-	7,082.00	60,680.00	-	49,770,000.00	-	111,900,000.00	-	28,170,000.00
-	14,900.00	-	7,082.00	76,560.00	-	125,600,000.00	-	113,600,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	66,440.00	-	10,680,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	66,440.00	-	10,680,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	70,800.00	-	23,730,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	70,800.00	-	23,730,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00	60,680.00	-	20,730,000.00	-	111,900,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00	72,200.00	-	42,100,000.00	-	113,600,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00	60,680.00	-	20,730,000.00	-	111,900,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00	72,200.00	-	42,100,000.00	-	113,600,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00	65,040.00	-	7,683,000.00	-	111,900,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00	76,560.00	-	55,140,000.00	-	113,600,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00	65,040.00	-	7,683,000.00	-	111,900,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00	76,560.00	-	55,140,000.00	-	113,600,000.00	-	28,530,000.00
	0.00	-	18,620.00	58,000.00	-	48,310,000.00	-	1,603,000.00	-	354,600.00
	0.00	-	4,460.00	69,520.00	-	14,520,000.00	-	3,348,000.00	-	354,600.00
	0.00	-	18,620.00	62,360.00	-	35,260,000.00	-	1,603,000.00	-	354,600.00
	0.00	-	4,460.00	73,880.00	-	27,560,000.00	-	3,348,000.00	-	354,600.00
-	14,210.00	-	7,082.00	73,880.00	-	98,060,000.00	-	105,800,000.00	-	24,950,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 100 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,210.00	-	18,620.00	58,000.00	48,310,000.00	-	104,100,000.00	-	25,310,000.00	
-	14,210.00	-	4,460.00	69,520.00	-	14,520,000.00	-	105,800,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00	58,000.00	48,310,000.00	-	104,100,000.00	-	25,310,000.00	
-	14,210.00	-	18,620.00	62,360.00	35,260,000.00	-	104,100,000.00	-	25,310,000.00	
-	14,210.00	-	4,460.00	73,880.00	-	27,560,000.00	-	105,800,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00	62,360.00	35,260,000.00	-	104,100,000.00	-	25,310,000.00	
-	14,210.00	-	4,460.00	73,880.00	-	27,560,000.00	-	105,800,000.00	-	25,310,000.00
-	693.00	-	7,082.00	63,040.00	-	44,210,000.00	-	8,636,000.00	-	3,219,000.00
-	693.00	-	4,460.00	74,560.00	-	36,540,000.00	-	10,380,000.00	-	3,574,000.00
-	693.00	-	18,620.00	67,400.00	13,240,000.00	-	8,636,000.00	-	3,574,000.00	
-	693.00	-	4,459.00	78,920.00	-	49,590,000.00	-	10,380,000.00	-	3,574,000.00
-	14,900.00	-	7,082.00	67,400.00	-	57,260,000.00	-	111,100,000.00	-	28,170,000.00
-	14,900.00	-	7,082.00	78,920.00	-	120,100,000.00	-	112,900,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	73,160.00	-	18,170,000.00	-	112,000,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	73,160.00	-	18,170,000.00	-	112,000,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00	63,040.00	26,290,000.00	-	111,100,000.00	-	28,530,000.00	
-	14,900.00	-	18,620.00	63,040.00	26,290,000.00	-	111,100,000.00	-	28,530,000.00	
-	14,900.00	-	4,460.00	74,560.00	-	36,540,000.00	-	112,900,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00	67,400.00	13,240,000.00	-	111,100,000.00	-	28,530,000.00	
-	14,900.00	-	4,460.00	78,920.00	-	49,590,000.00	-	112,900,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00	67,400.00	13,240,000.00	-	111,100,000.00	-	28,530,000.00	
-	14,900.00	-	4,460.00	78,920.00	-	49,590,000.00	-	112,900,000.00	-	28,530,000.00
0.00	-	7,082.00	69,340.00	-	45,360,000.00	-	2,345,000.00	-	26.85	
0.00	-	4,460.00	76,510.00	-	24,650,000.00	-	4,090,000.00	-	354,600.00	
0.00	-	4,460.00	80,860.00	-	37,690,000.00	-	4,090,000.00	-	354,600.00	
0.00	-	4,460.00	80,860.00	-	37,690,000.00	-	4,090,000.00	-	354,600.00	
-	14,210.00	-	7,082.00	64,990.00	-	32,320,000.00	-	104,800,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00	76,510.00	-	95,140,000.00	-	106,600,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00	64,990.00	-	32,320,000.00	-	104,800,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00	76,510.00	-	95,140,000.00	-	106,600,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00	80,860.00	-	108,200,000.00	-	106,600,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00	69,340.00	-	45,360,000.00	-	104,800,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00	80,860.00	-	108,200,000.00	-	106,600,000.00	-	24,950,000.00
-	14,210.00	-	18,620.00	64,990.00	38,180,000.00	-	104,800,000.00	-	25,310,000.00	
-	14,210.00	-	4,460.00	76,510.00	-	24,650,000.00	-	106,600,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00	69,340.00	25,130,000.00	-	104,800,000.00	-	25,310,000.00	
-	14,210.00	-	4,460.00	80,860.00	-	37,690,000.00	-	106,600,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00	69,340.00	25,130,000.00	-	104,800,000.00	-	25,310,000.00	
-	14,210.00	-	4,460.00	80,860.00	-	37,690,000.00	-	106,600,000.00	-	25,310,000.00
-	693.00	-	7,082.00	85,900.00	-	130,200,000.00	-	11,120,000.00	-	3,219,000.00
-	693.00	-	18,620.00	74,380.00	3,107,000.00	-	9,378,000.00	-	3,574,000.00	
-	693.00	-	4,459.00	85,900.00	-	59,720,000.00	-	11,120,000.00	-	3,574,000.00
-	14,900.00	-	7,082.00	70,030.00	-	54,340,000.00	-	111,900,000.00	-	28,170,000.00
-	14,900.00	-	7,082.00	70,030.00	-	54,340,000.00	-	111,900,000.00	-	28,170,000.00
-	14,900.00	-	7,082.00	74,380.00	-	67,390,000.00	-	111,900,000.00	-	28,170,000.00
-	14,900.00	-	7,082.00	74,380.00	-	67,390,000.00	-	111,900,000.00	-	28,170,000.00
-	14,900.00	-	7,082.00	85,900.00	-	130,200,000.00	-	113,600,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	80,140.00	-	28,310,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	80,140.00	-	28,310,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00	74,380.00	3,107,000.00	-	111,900,000.00	-	28,530,000.00	
-	14,900.00	-	4,460.00	85,900.00	-	59,720,000.00	-	113,600,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00	74,380.00	3,107,000.00	-	111,900,000.00	-	28,530,000.00	
-	14,900.00	-	4,460.00	85,900.00	-	59,720,000.00	-	113,600,000.00	-	28,530,000.00
0.00	-	4,249.00	59,680.00	-	56,270,000.00	-	1,952,000.00	-	29.51	
0.00	-	4,249.00	66,590.00	-	93,960,000.00	-	2,999,000.00	-	39.86	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto <b>IN17</b>	Lotto <b>10</b>	Codifica Documento <b>EI2CLOC000006</b>	Rev. <b>A</b>	Foglio <b>101 di 215</b>

<b>Reazioni vincolari - STR A1</b>						
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>	
0.00	10,620.00	63,130.00	- 138,400,000.00	- 2,475,000.00	354,700.00	
0.00	6,370.00	59,680.00	- 119,600,000.00	- 1,952,000.00	354,700.00	
0.00	14,870.00	66,590.00	- 157,200,000.00	- 2,999,000.00	354,700.00	
14,210.00	0.07	63,130.00	- 75,120,000.00	100,000,000.00	24,950,000.00	
14,210.00	0.07	63,130.00	- 75,120,000.00	100,000,000.00	24,950,000.00	
14,210.00	- 4,249.00	59,680.00	- 56,270,000.00	100,500,000.00	24,950,000.00	
14,210.00	4,249.00	66,590.00	- 93,960,000.00	99,480,000.00	24,950,000.00	
14,210.00	- 4,249.00	59,680.00	- 56,270,000.00	100,500,000.00	24,950,000.00	
14,210.00	4,249.00	66,590.00	- 93,960,000.00	99,480,000.00	24,950,000.00	
14,210.00	10,620.00	63,130.00	- 138,400,000.00	100,000,000.00	25,310,000.00	
14,210.00	10,620.00	63,130.00	- 138,400,000.00	100,000,000.00	25,310,000.00	
14,210.00	6,370.00	59,680.00	- 119,600,000.00	100,500,000.00	25,310,000.00	
14,210.00	14,870.00	66,590.00	- 157,200,000.00	99,480,000.00	25,310,000.00	
14,210.00	6,370.00	59,680.00	- 119,600,000.00	100,500,000.00	25,310,000.00	
14,210.00	14,870.00	66,590.00	- 157,200,000.00	99,480,000.00	25,310,000.00	
- 693.00	4,249.00	71,630.00	- 116,000,000.00	- 10,030,000.00	- 3,219,000.00	
- 693.00	10,620.00	68,170.00	- 160,400,000.00	- 9,508,000.00	- 2,864,000.00	
- 693.00	10,620.00	68,170.00	- 160,400,000.00	- 9,508,000.00	- 2,864,000.00	
- 693.00	6,370.00	64,720.00	- 141,600,000.00	- 8,985,000.00	- 2,864,000.00	
- 693.00	14,870.00	71,630.00	- 179,300,000.00	- 10,030,000.00	- 2,864,000.00	
13,510.00	0.08	68,170.00	- 97,140,000.00	92,970,000.00	21,740,000.00	
13,510.00	0.08	68,170.00	- 97,140,000.00	92,970,000.00	21,740,000.00	
13,510.00	4,249.00	71,630.00	- 116,000,000.00	92,450,000.00	21,740,000.00	
13,510.00	10,620.00	68,170.00	- 160,400,000.00	92,970,000.00	22,090,000.00	
13,510.00	10,620.00	68,170.00	- 160,400,000.00	92,970,000.00	22,090,000.00	
13,510.00	6,370.00	56,000.00	- 115,500,000.00	93,490,000.00	22,090,000.00	
13,510.00	14,870.00	62,920.00	- 153,200,000.00	92,450,000.00	22,090,000.00	
13,510.00	6,370.00	56,000.00	- 115,500,000.00	93,490,000.00	22,090,000.00	
13,510.00	14,870.00	62,920.00	- 153,200,000.00	92,450,000.00	22,090,000.00	
13,510.00	6,370.00	64,720.00	- 141,600,000.00	93,490,000.00	22,090,000.00	
13,510.00	14,870.00	71,630.00	- 179,300,000.00	92,450,000.00	22,090,000.00	
13,510.00	6,370.00	64,720.00	- 141,600,000.00	93,490,000.00	22,090,000.00	
13,510.00	14,870.00	71,630.00	- 179,300,000.00	92,450,000.00	22,090,000.00	
0.00	0.06	70,120.00	- 85,250,000.00	- 3,218,000.00	39.41	
0.00	- 4,249.00	66,660.00	- 66,400,000.00	- 2,694,000.00	34.31	
0.00	4,249.00	73,570.00	- 104,100,000.00	- 3,741,000.00	44.52	
0.00	10,620.00	70,120.00	- 148,500,000.00	- 3,218,000.00	354,700.00	
0.00	10,620.00	70,120.00	- 148,500,000.00	- 3,218,000.00	354,700.00	
0.00	6,370.00	66,660.00	- 129,700,000.00	- 2,694,000.00	354,700.00	
0.00	6,370.00	66,660.00	- 129,700,000.00	- 2,694,000.00	354,700.00	
14,210.00	0.07	70,120.00	- 85,250,000.00	99,260,000.00	24,950,000.00	
14,210.00	0.07	70,120.00	- 85,250,000.00	99,260,000.00	24,950,000.00	
14,210.00	- 4,249.00	66,660.00	- 66,400,000.00	99,780,000.00	24,950,000.00	
14,210.00	- 4,249.00	66,660.00	- 66,400,000.00	99,780,000.00	24,950,000.00	
14,210.00	4,249.00	73,570.00	- 104,100,000.00	98,740,000.00	24,950,000.00	
14,210.00	10,620.00	70,120.00	- 148,500,000.00	99,260,000.00	25,310,000.00	
14,210.00	10,620.00	70,120.00	- 148,500,000.00	99,260,000.00	25,310,000.00	
14,210.00	6,370.00	66,660.00	- 129,700,000.00	99,780,000.00	25,310,000.00	
14,210.00	14,870.00	73,570.00	- 167,400,000.00	98,740,000.00	25,310,000.00	
14,210.00	6,370.00	66,660.00	- 129,700,000.00	99,780,000.00	25,310,000.00	
14,210.00	14,870.00	73,570.00	- 167,400,000.00	98,740,000.00	25,310,000.00	
- 693.00	10,620.00	75,160.00	- 170,600,000.00	- 10,250,000.00	- 2,864,000.00	
- 693.00	6,370.00	71,700.00	- 151,700,000.00	- 9,727,000.00	- 2,864,000.00	
- 693.00	14,870.00	78,610.00	- 189,400,000.00	- 10,770,000.00	- 2,864,000.00	
13,510.00	0.09	75,160.00	- 107,300,000.00	92,230,000.00	21,740,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 102 di 215

<b>Reazioni vincolari - STR A1</b>						
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>	
13,510.00	-	4,249.00	71,700.00	- 88,430,000.00	92,750,000.00	21,740,000.00
13,510.00		10,620.00	75,160.00	- 170,600,000.00	92,230,000.00	22,090,000.00
13,510.00		10,620.00	75,160.00	- 170,600,000.00	92,230,000.00	22,090,000.00
13,510.00		6,370.00	62,990.00	- 125,600,000.00	92,750,000.00	22,090,000.00
13,510.00		14,870.00	69,900.00	- 163,300,000.00	91,700,000.00	22,090,000.00
13,510.00		6,370.00	62,990.00	- 125,600,000.00	92,750,000.00	22,090,000.00
13,510.00		14,870.00	69,900.00	- 163,300,000.00	91,700,000.00	22,090,000.00
13,510.00		6,370.00	71,700.00	- 151,700,000.00	92,750,000.00	22,090,000.00
13,510.00		14,870.00	78,610.00	- 189,400,000.00	91,700,000.00	22,090,000.00
13,510.00		6,370.00	71,700.00	- 151,700,000.00	92,750,000.00	22,090,000.00
13,510.00		14,870.00	78,610.00	- 189,400,000.00	91,700,000.00	22,090,000.00
0.00		0.06	72,480.00	- 79,690,000.00	- 2,475,000.00	36.72
0.00	-	4,249.00	69,020.00	- 60,840,000.00	- 1,952,000.00	31.62
0.00		4,249.00	75,930.00	- 98,540,000.00	- 2,999,000.00	41.82
0.00		10,620.00	72,480.00	- 143,000,000.00	- 2,475,000.00	354,700.00
0.00		6,370.00	69,020.00	- 124,100,000.00	- 1,952,000.00	354,700.00
0.00		6,370.00	69,020.00	- 124,100,000.00	- 1,952,000.00	354,700.00
14,210.00		0.07	72,480.00	- 79,690,000.00	100,000,000.00	24,950,000.00
14,210.00		0.07	72,480.00	- 79,690,000.00	100,000,000.00	24,950,000.00
14,210.00		4,249.00	75,930.00	- 98,540,000.00	99,480,000.00	24,950,000.00
14,210.00	-	4,249.00	69,020.00	- 60,840,000.00	100,500,000.00	24,950,000.00
14,210.00		4,249.00	75,930.00	- 98,540,000.00	99,480,000.00	24,950,000.00
14,210.00		10,620.00	72,480.00	- 143,000,000.00	100,000,000.00	25,310,000.00
14,210.00		10,620.00	72,480.00	- 143,000,000.00	100,000,000.00	25,310,000.00
14,210.00		6,370.00	69,020.00	- 124,100,000.00	100,500,000.00	25,310,000.00
14,210.00		14,870.00	75,930.00	- 161,800,000.00	99,480,000.00	25,310,000.00
14,210.00		6,370.00	69,020.00	- 124,100,000.00	100,500,000.00	25,310,000.00
14,210.00		14,870.00	75,930.00	- 161,800,000.00	99,480,000.00	25,310,000.00
-	693.00	0.07	77,520.00	- 101,700,000.00	- 9,508,000.00	- 3,219,000.00
-	693.00	-	74,060.00	- 82,870,000.00	- 8,985,000.00	- 3,219,000.00
-	693.00	6,370.00	74,060.00	- 146,200,000.00	- 8,985,000.00	- 2,864,000.00
13,510.00		0.08	77,520.00	- 101,700,000.00	92,970,000.00	21,740,000.00
13,510.00		0.08	77,520.00	- 101,700,000.00	92,970,000.00	21,740,000.00
13,510.00		4,249.00	80,970.00	- 120,600,000.00	92,450,000.00	21,740,000.00
13,510.00	-	4,249.00	74,060.00	- 82,870,000.00	93,490,000.00	21,740,000.00
13,510.00		4,249.00	80,970.00	- 120,600,000.00	92,450,000.00	21,740,000.00
13,510.00		10,620.00	77,520.00	- 165,000,000.00	92,970,000.00	22,090,000.00
13,510.00		10,620.00	77,520.00	- 165,000,000.00	92,970,000.00	22,090,000.00
13,510.00		6,370.00	65,350.00	- 120,100,000.00	93,490,000.00	22,090,000.00
13,510.00		14,870.00	72,260.00	- 157,800,000.00	92,450,000.00	22,090,000.00
13,510.00		6,370.00	65,350.00	- 120,100,000.00	93,490,000.00	22,090,000.00
13,510.00		14,870.00	72,260.00	- 157,800,000.00	92,450,000.00	22,090,000.00
13,510.00		6,370.00	74,060.00	- 146,200,000.00	93,490,000.00	22,090,000.00
13,510.00		14,870.00	80,970.00	- 183,800,000.00	92,450,000.00	22,090,000.00
13,510.00		6,370.00	74,060.00	- 146,200,000.00	93,490,000.00	22,090,000.00
13,510.00		14,870.00	80,970.00	- 183,800,000.00	92,450,000.00	22,090,000.00
0.00		10,620.00	79,460.00	- 153,100,000.00	- 3,218,000.00	354,700.00
0.00		10,620.00	79,460.00	- 153,100,000.00	- 3,218,000.00	354,700.00
0.00		6,370.00	76,000.00	- 134,300,000.00	- 2,694,000.00	354,700.00
0.00		14,870.00	82,910.00	- 172,000,000.00	- 3,741,000.00	354,700.00
14,210.00		0.08	79,460.00	- 89,820,000.00	99,260,000.00	24,950,000.00
14,210.00	-	4,249.00	76,000.00	- 70,980,000.00	99,780,000.00	24,950,000.00
14,210.00		10,620.00	79,460.00	- 153,100,000.00	99,260,000.00	25,310,000.00
14,210.00		10,620.00	79,460.00	- 153,100,000.00	99,260,000.00	25,310,000.00
14,210.00		6,370.00	76,000.00	- 134,300,000.00	99,780,000.00	25,310,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 103 di 215

Reazioni vincolari - STR A1						
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>	
14,210.00	14,870.00	82,910.00	- 172,000,000.00	98,740,000.00	25,310,000.00	
14,210.00	6,370.00	76,000.00	- 134,300,000.00	99,780,000.00	25,310,000.00	
14,210.00	14,870.00	82,910.00	- 172,000,000.00	98,740,000.00	25,310,000.00	
- 693.00	0.08	84,500.00	- 111,800,000.00	- 10,250,000.00	- 3,219,000.00	
- 693.00	10,620.00	84,500.00	- 175,100,000.00	- 10,250,000.00	- 2,864,000.00	
- 693.00	10,620.00	84,500.00	- 175,100,000.00	- 10,250,000.00	- 2,864,000.00	
- 693.00	14,870.00	87,950.00	- 194,000,000.00	- 10,770,000.00	- 2,864,000.00	
- 693.00	14,870.00	87,950.00	- 194,000,000.00	- 10,770,000.00	- 2,864,000.00	
13,510.00	- 4,249.00	81,040.00	- 93,000,000.00	92,750,000.00	21,740,000.00	
13,510.00	10,620.00	84,500.00	- 175,100,000.00	92,230,000.00	22,090,000.00	
13,510.00	10,620.00	84,500.00	- 175,100,000.00	92,230,000.00	22,090,000.00	
13,510.00	6,370.00	72,330.00	- 130,200,000.00	92,750,000.00	22,090,000.00	
13,510.00	14,870.00	79,240.00	- 167,900,000.00	91,700,000.00	22,090,000.00	
13,510.00	6,370.00	72,330.00	- 130,200,000.00	92,750,000.00	22,090,000.00	
13,510.00	14,870.00	79,240.00	- 167,900,000.00	91,700,000.00	22,090,000.00	
13,510.00	6,370.00	81,040.00	- 156,300,000.00	92,750,000.00	22,090,000.00	
13,510.00	14,870.00	87,950.00	- 194,000,000.00	91,700,000.00	22,090,000.00	
13,510.00	6,370.00	81,040.00	- 156,300,000.00	92,750,000.00	22,090,000.00	
13,510.00	14,870.00	87,950.00	- 194,000,000.00	91,700,000.00	22,090,000.00	
0.00	0.05	63,130.00	- 75,120,000.00	- 2,475,000.00	34.76	
0.00	- 11,540.00	63,130.00	- 4,620,000.00	- 2,475,000.00	- 354,600.00	
0.00	- 15,790.00	59,680.00	14,230,000.00	- 1,952,000.00	- 354,600.00	
0.00	- 7,292.00	66,590.00	- 23,470,000.00	- 2,999,000.00	- 354,600.00	
0.00	- 7,292.00	66,590.00	- 23,470,000.00	- 2,999,000.00	- 354,600.00	
14,210.00	- 11,540.00	63,130.00	- 4,620,000.00	100,000,000.00	24,600,000.00	
14,210.00	- 11,540.00	63,130.00	- 4,620,000.00	100,000,000.00	24,600,000.00	
14,210.00	- 15,790.00	59,680.00	14,230,000.00	100,500,000.00	24,600,000.00	
14,210.00	- 7,292.00	66,590.00	- 23,470,000.00	99,480,000.00	24,600,000.00	
14,210.00	- 15,790.00	59,680.00	14,230,000.00	100,500,000.00	24,600,000.00	
14,210.00	- 7,292.00	66,590.00	- 23,470,000.00	99,480,000.00	24,600,000.00	
- 693.00	- 4,249.00	64,720.00	- 78,290,000.00	- 8,985,000.00	- 3,219,000.00	
- 693.00	4,249.00	71,630.00	- 116,000,000.00	- 10,030,000.00	- 3,219,000.00	
- 693.00	- 11,540.00	68,170.00	- 26,640,000.00	- 9,508,000.00	- 3,574,000.00	
- 693.00	- 11,540.00	68,170.00	- 26,640,000.00	- 9,508,000.00	- 3,574,000.00	
- 693.00	- 7,292.00	71,630.00	- 45,490,000.00	- 10,030,000.00	- 3,574,000.00	
13,510.00	- 4,249.00	64,720.00	- 78,290,000.00	93,490,000.00	21,740,000.00	
13,510.00	4,249.00	71,630.00	- 116,000,000.00	92,450,000.00	21,740,000.00	
13,510.00	- 4,249.00	64,720.00	- 78,290,000.00	93,490,000.00	21,740,000.00	
13,510.00	- 11,540.00	68,170.00	- 26,650,000.00	92,970,000.00	21,380,000.00	
13,510.00	- 11,540.00	68,170.00	- 26,650,000.00	92,970,000.00	21,380,000.00	
13,510.00	- 15,790.00	56,000.00	18,300,000.00	93,490,000.00	21,380,000.00	
13,510.00	- 7,292.00	62,920.00	- 19,400,000.00	92,450,000.00	21,380,000.00	
13,510.00	- 15,790.00	56,000.00	18,300,000.00	93,490,000.00	21,380,000.00	
13,510.00	- 7,292.00	62,920.00	- 19,400,000.00	92,450,000.00	21,380,000.00	
13,510.00	- 15,790.00	64,720.00	- 7,797,000.00	93,490,000.00	21,380,000.00	
13,510.00	- 7,292.00	71,630.00	- 45,490,000.00	92,450,000.00	21,380,000.00	
13,510.00	- 15,790.00	64,720.00	- 7,797,000.00	93,490,000.00	21,380,000.00	
13,510.00	- 7,292.00	71,630.00	- 45,490,000.00	92,450,000.00	21,380,000.00	
0.00	- 4,249.00	66,660.00	- 66,400,000.00	- 2,694,000.00	34.16	
0.00	4,249.00	73,570.00	- 104,100,000.00	- 3,741,000.00	44.37	
0.00	- 11,540.00	70,120.00	- 14,750,000.00	- 3,218,000.00	- 354,600.00	
0.00	- 15,790.00	66,660.00	4,096,000.00	- 2,694,000.00	- 354,600.00	
0.00	- 7,292.00	73,570.00	- 33,600,000.00	- 3,741,000.00	- 354,600.00	
14,210.00	4,249.00	73,570.00	- 104,100,000.00	98,740,000.00	24,950,000.00	
14,210.00	- 11,540.00	70,120.00	- 14,750,000.00	99,260,000.00	24,600,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 104 di 215

Reazioni vincolari - STR A1							
Rx	Ry		N	Mx	My	Mz	
N	N		N	Nmm	Nmm	Nmm	
14,210.00	-	11,540.00	70,120.00	- 14,750,000.00	99,260,000.00	24,600,000.00	
14,210.00	-	15,790.00	66,660.00	4,096,000.00	99,780,000.00	24,600,000.00	
14,210.00	-	7,292.00	73,570.00	- 33,600,000.00	98,740,000.00	24,600,000.00	
14,210.00	-	15,790.00	66,660.00	4,096,000.00	99,780,000.00	24,600,000.00	
14,210.00	-	7,292.00	73,570.00	- 33,600,000.00	98,740,000.00	24,600,000.00	
- 693.00	-	4,249.00	71,700.00	- 88,430,000.00	- 9,727,000.00	-	3,219,000.00
- 693.00	-	4,249.00	71,700.00	- 88,430,000.00	- 9,727,000.00	-	3,219,000.00
- 693.00	-	4,249.00	78,610.00	- 126,100,000.00	- 10,770,000.00	-	3,219,000.00
- 693.00	-	11,540.00	75,160.00	- 36,780,000.00	- 10,250,000.00	-	3,574,000.00
- 693.00	-	7,292.00	78,610.00	- 55,620,000.00	- 10,770,000.00	-	3,574,000.00
- 693.00	-	15,790.00	71,700.00	- 17,930,000.00	- 9,727,000.00	-	3,574,000.00
13,510.00		0.09	75,160.00	- 107,300,000.00	92,230,000.00	21,740,000.00	
13,510.00	-	4,249.00	71,700.00	- 88,430,000.00	92,750,000.00	21,740,000.00	
13,510.00		4,249.00	78,610.00	- 126,100,000.00	91,700,000.00	21,740,000.00	
13,510.00		4,249.00	78,610.00	- 126,100,000.00	91,700,000.00	21,740,000.00	
13,510.00	-	11,540.00	75,160.00	- 36,780,000.00	92,230,000.00	21,380,000.00	
13,510.00	-	11,540.00	75,160.00	- 36,780,000.00	92,230,000.00	21,380,000.00	
13,510.00	-	15,790.00	62,990.00	8,164,000.00	92,750,000.00	21,380,000.00	
13,510.00	-	7,292.00	69,900.00	- 29,530,000.00	91,700,000.00	21,380,000.00	
13,510.00	-	15,790.00	62,990.00	8,164,000.00	92,750,000.00	21,380,000.00	
13,510.00	-	7,292.00	69,900.00	- 29,530,000.00	91,700,000.00	21,380,000.00	
13,510.00	-	15,790.00	71,700.00	- 17,930,000.00	92,750,000.00	21,380,000.00	
13,510.00	-	7,292.00	78,610.00	- 55,620,000.00	91,700,000.00	21,380,000.00	
13,510.00	-	15,790.00	71,700.00	- 17,930,000.00	92,750,000.00	21,380,000.00	
13,510.00	-	7,292.00	78,610.00	- 55,620,000.00	91,700,000.00	21,380,000.00	
0.00	-	4,249.00	69,020.00	- 60,840,000.00	- 1,952,000.00		31.77
0.00		4,249.00	75,930.00	- 98,540,000.00	- 2,999,000.00		41.97
0.00	-	11,540.00	72,480.00	- 9,196,000.00	- 2,475,000.00	-	354,600.00
0.00	-	15,790.00	69,020.00	9,652,000.00	- 1,952,000.00	-	354,600.00
0.00	-	7,292.00	75,930.00	- 28,040,000.00	- 2,999,000.00	-	354,600.00
14,210.00	-	4,249.00	69,020.00	- 60,840,000.00	100,500,000.00	24,950,000.00	
14,210.00	-	11,540.00	72,480.00	- 9,196,000.00	100,000,000.00	24,600,000.00	
14,210.00	-	11,540.00	72,480.00	- 9,196,000.00	100,000,000.00	24,600,000.00	
14,210.00	-	15,790.00	69,020.00	9,652,000.00	100,500,000.00	24,600,000.00	
14,210.00	-	7,292.00	75,930.00	- 28,040,000.00	99,480,000.00	24,600,000.00	
14,210.00	-	15,790.00	69,020.00	9,652,000.00	100,500,000.00	24,600,000.00	
14,210.00	-	7,292.00	75,930.00	- 28,040,000.00	99,480,000.00	24,600,000.00	
- 693.00		4,249.00	80,970.00	- 120,600,000.00	- 10,030,000.00	-	3,219,000.00
- 693.00	-	11,540.00	77,520.00	- 31,220,000.00	- 9,508,000.00	-	3,574,000.00
- 693.00	-	7,292.00	80,970.00	- 50,070,000.00	- 10,030,000.00	-	3,574,000.00
- 693.00	-	7,292.00	80,970.00	- 50,070,000.00	- 10,030,000.00	-	3,574,000.00
13,510.00	-	4,249.00	74,060.00	- 82,870,000.00	93,490,000.00	21,740,000.00	
13,510.00	-	11,540.00	77,520.00	- 31,220,000.00	92,970,000.00	21,380,000.00	
13,510.00	-	11,540.00	77,520.00	- 31,220,000.00	92,970,000.00	21,380,000.00	
13,510.00	-	15,790.00	65,350.00	13,720,000.00	93,490,000.00	21,380,000.00	
13,510.00	-	7,292.00	72,260.00	- 23,980,000.00	92,450,000.00	21,380,000.00	
13,510.00	-	15,790.00	65,350.00	13,720,000.00	93,490,000.00	21,380,000.00	
13,510.00	-	7,292.00	72,260.00	- 23,980,000.00	92,450,000.00	21,380,000.00	
13,510.00	-	15,790.00	74,060.00	- 12,370,000.00	93,490,000.00	21,380,000.00	
13,510.00	-	7,292.00	80,970.00	- 50,070,000.00	92,450,000.00	21,380,000.00	
13,510.00	-	15,790.00	74,060.00	- 12,370,000.00	93,490,000.00	21,380,000.00	
13,510.00	-	7,292.00	80,970.00	- 50,070,000.00	92,450,000.00	21,380,000.00	
0.00	-	4,249.00	76,000.00	- 70,980,000.00	- 2,694,000.00		36.42
0.00		4,249.00	82,910.00	- 108,700,000.00	- 3,741,000.00		46.63
0.00	-	11,540.00	79,460.00	- 19,330,000.00	- 3,218,000.00	-	354,600.00



<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 105 di 215

Reazioni vincolari - STR A1										
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>					
0.00	-	15,790.00	76,000.00	-	479,500.00	-	2,694,000.00	-	354,600.00	
14,210.00		0.08	79,460.00	-	89,820,000.00	99,260,000.00			24,950,000.00	
14,210.00	-	4,249.00	76,000.00	-	70,980,000.00	99,780,000.00			24,950,000.00	
14,210.00		4,249.00	82,910.00	-	108,700,000.00	98,740,000.00			24,950,000.00	
14,210.00		4,249.00	82,910.00	-	108,700,000.00	98,740,000.00			24,950,000.00	
14,210.00	-	11,540.00	79,460.00	-	19,330,000.00	99,260,000.00			24,600,000.00	
14,210.00	-	11,540.00	79,460.00	-	19,330,000.00	99,260,000.00			24,600,000.00	
14,210.00	-	15,790.00	76,000.00	-	479,600.00	99,780,000.00			24,600,000.00	
14,210.00	-	7,292.00	82,910.00	-	38,180,000.00	98,740,000.00			24,600,000.00	
14,210.00	-	15,790.00	76,000.00	-	479,600.00	99,780,000.00			24,600,000.00	
14,210.00	-	7,292.00	82,910.00	-	38,180,000.00	98,740,000.00			24,600,000.00	
-	693.00	0.08	84,500.00	-	111,800,000.00	-	10,250,000.00	-	3,219,000.00	
-	693.00	-	4,249.00	81,040.00	-	93,000,000.00	-	9,727,000.00	-	3,219,000.00
-	693.00	-	11,540.00	84,500.00	-	41,350,000.00	-	10,250,000.00	-	3,574,000.00
-	693.00	-	15,790.00	81,040.00	-	22,500,000.00	-	9,727,000.00	-	3,574,000.00
13,510.00		0.09	84,500.00	-	111,800,000.00	92,230,000.00			21,740,000.00	
13,510.00		0.09	84,500.00	-	111,800,000.00	92,230,000.00			21,740,000.00	
13,510.00	-	4,249.00	81,040.00	-	93,000,000.00	92,750,000.00			21,740,000.00	
13,510.00		4,249.00	87,950.00	-	130,700,000.00	91,700,000.00			21,740,000.00	
13,510.00		4,249.00	87,950.00	-	130,700,000.00	91,700,000.00			21,740,000.00	
13,510.00	-	11,540.00	84,500.00	-	41,350,000.00	92,230,000.00			21,380,000.00	
13,510.00	-	11,540.00	84,500.00	-	41,350,000.00	92,230,000.00			21,380,000.00	
13,510.00	-	15,790.00	72,330.00	-	3,588,000.00	92,750,000.00			21,380,000.00	
13,510.00	-	7,292.00	79,240.00	-	34,110,000.00	91,700,000.00			21,380,000.00	
13,510.00	-	15,790.00	72,330.00	-	3,588,000.00	92,750,000.00			21,380,000.00	
13,510.00	-	7,292.00	79,240.00	-	34,110,000.00	91,700,000.00			21,380,000.00	
13,510.00	-	15,790.00	81,040.00	-	22,500,000.00	92,750,000.00			21,380,000.00	
13,510.00	-	7,292.00	87,950.00	-	60,200,000.00	91,700,000.00			21,380,000.00	
13,510.00	-	15,790.00	81,040.00	-	22,500,000.00	92,750,000.00			21,380,000.00	
13,510.00	-	7,292.00	87,950.00	-	60,200,000.00	91,700,000.00			21,380,000.00	
0.00	-	4,249.00	59,680.00	-	56,270,000.00	-	1,952,000.00		29.65	
0.00		10,620.00	63,130.00	-	138,400,000.00	-	2,475,000.00		354,700.00	
0.00		6,370.00	59,680.00	-	119,600,000.00	-	1,952,000.00		354,700.00	
0.00		14,870.00	66,590.00	-	157,200,000.00	-	2,999,000.00		354,700.00	
-	14,210.00	0.04	63,130.00	-	75,120,000.00	-	105,000,000.00	-	24,950,000.00	
-	14,210.00	-	4,249.00	59,680.00	-	56,270,000.00	-	104,400,000.00	-	24,950,000.00
-	14,210.00		4,249.00	66,590.00	-	93,960,000.00	-	105,500,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00	59,680.00	-	56,270,000.00	-	104,400,000.00	-	24,950,000.00
-	14,210.00		4,249.00	66,590.00	-	93,960,000.00	-	105,500,000.00	-	24,950,000.00
-	14,210.00		10,620.00	63,130.00	-	138,400,000.00	-	105,000,000.00	-	24,600,000.00
-	14,210.00		10,620.00	63,130.00	-	138,400,000.00	-	105,000,000.00	-	24,600,000.00
-	14,210.00		6,370.00	59,680.00	-	119,600,000.00	-	104,400,000.00	-	24,600,000.00
-	14,210.00		14,870.00	66,590.00	-	157,200,000.00	-	105,500,000.00	-	24,600,000.00
-	14,210.00		6,370.00	59,680.00	-	119,600,000.00	-	104,400,000.00	-	24,600,000.00
-	14,210.00		14,870.00	66,590.00	-	157,200,000.00	-	105,500,000.00	-	24,600,000.00
-	693.00		14,870.00	71,630.00	-	179,300,000.00	-	10,030,000.00	-	2,864,000.00
-	693.00		6,370.00	64,720.00	-	141,600,000.00	-	8,985,000.00	-	2,864,000.00
-	14,900.00		0.05	68,170.00	-	97,140,000.00	-	112,000,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	64,720.00	-	78,290,000.00	-	111,500,000.00	-	28,170,000.00
-	14,900.00		4,249.00	71,630.00	-	116,000,000.00	-	112,500,000.00	-	28,170,000.00
-	14,900.00		10,620.00	68,170.00	-	160,400,000.00	-	112,000,000.00	-	27,820,000.00
-	14,900.00		10,620.00	68,170.00	-	160,400,000.00	-	112,000,000.00	-	27,820,000.00
-	14,900.00		6,370.00	56,000.00	-	115,500,000.00	-	111,500,000.00	-	27,820,000.00
-	14,900.00		14,870.00	62,920.00	-	153,200,000.00	-	112,500,000.00	-	27,820,000.00
-	14,900.00		6,370.00	56,000.00	-	115,500,000.00	-	111,500,000.00	-	27,820,000.00

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 106 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,900.00		14,870.00		62,920.00	- 153,200,000.00	-	112,500,000.00	-	27,820,000.00
-	14,900.00		6,370.00		64,720.00	- 141,600,000.00	-	111,500,000.00	-	27,820,000.00
-	14,900.00		14,870.00		71,630.00	- 179,300,000.00	-	112,500,000.00	-	27,820,000.00
-	14,900.00		6,370.00		64,720.00	- 141,600,000.00	-	111,500,000.00	-	27,820,000.00
-	14,900.00		14,870.00		71,630.00	- 179,300,000.00	-	112,500,000.00	-	27,820,000.00
	0.00		14,870.00		73,570.00	- 167,400,000.00	-	3,741,000.00		354,700.00
	0.00		14,870.00		73,570.00	- 167,400,000.00	-	3,741,000.00		354,700.00
-	14,210.00		0.05		70,120.00	- 85,250,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00		0.05		70,120.00	- 85,250,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		66,660.00	- 66,400,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		73,570.00	- 104,100,000.00	-	106,200,000.00	-	24,950,000.00
-	14,210.00		10,620.00		70,120.00	- 148,500,000.00	-	105,700,000.00	-	24,600,000.00
-	14,210.00		10,620.00		70,120.00	- 148,500,000.00	-	105,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00		66,660.00	- 129,700,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		73,570.00	- 167,400,000.00	-	106,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		66,660.00	- 129,700,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		73,570.00	- 167,400,000.00	-	106,200,000.00	-	24,600,000.00
-	693.00		10,620.00		75,160.00	- 170,600,000.00	-	10,250,000.00	-	2,864,000.00
-	693.00		6,370.00		71,700.00	- 151,700,000.00	-	9,727,000.00	-	2,864,000.00
-	693.00		14,870.00		78,610.00	- 189,400,000.00	-	10,770,000.00	-	2,864,000.00
-	14,900.00		0.06		75,160.00	- 107,300,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00		0.06		75,160.00	- 107,300,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		71,700.00	- 88,430,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		71,700.00	- 88,430,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		78,610.00	- 126,100,000.00	-	113,300,000.00	-	28,170,000.00
-	14,900.00		10,620.00		75,160.00	- 170,600,000.00	-	112,700,000.00	-	27,820,000.00
-	14,900.00		10,620.00		75,160.00	- 170,600,000.00	-	112,700,000.00	-	27,820,000.00
-	14,900.00		6,370.00		62,990.00	- 125,600,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		69,900.00	- 163,300,000.00	-	113,300,000.00	-	27,820,000.00
-	14,900.00		6,370.00		62,990.00	- 125,600,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		69,900.00	- 163,300,000.00	-	113,300,000.00	-	27,820,000.00
-	14,900.00		6,370.00		71,700.00	- 151,700,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		78,610.00	- 189,400,000.00	-	113,300,000.00	-	27,820,000.00
-	14,900.00		6,370.00		71,700.00	- 151,700,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		78,610.00	- 189,400,000.00	-	113,300,000.00	-	27,820,000.00
	0.00		10,620.00		72,480.00	- 143,000,000.00	-	2,475,000.00		354,700.00
	0.00		14,870.00		75,930.00	- 161,800,000.00	-	2,999,000.00		354,700.00
	0.00		14,870.00		75,930.00	- 161,800,000.00	-	2,999,000.00		354,700.00
-	14,210.00	-	4,249.00		69,020.00	- 60,840,000.00	-	104,400,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		69,020.00	- 60,840,000.00	-	104,400,000.00	-	24,950,000.00
-	14,210.00		4,249.00		75,930.00	- 98,540,000.00	-	105,500,000.00	-	24,950,000.00
-	14,210.00		10,620.00		72,480.00	- 143,000,000.00	-	105,000,000.00	-	24,600,000.00
-	14,210.00		10,620.00		72,480.00	- 143,000,000.00	-	105,000,000.00	-	24,600,000.00
-	14,210.00		6,370.00		69,020.00	- 124,100,000.00	-	104,400,000.00	-	24,600,000.00
-	14,210.00		14,870.00		75,930.00	- 161,800,000.00	-	105,500,000.00	-	24,600,000.00
-	14,210.00		6,370.00		69,020.00	- 124,100,000.00	-	104,400,000.00	-	24,600,000.00
-	14,210.00		14,870.00		75,930.00	- 161,800,000.00	-	105,500,000.00	-	24,600,000.00
-	693.00		0.07		77,520.00	- 101,700,000.00	-	9,508,000.00	-	3,219,000.00
-	693.00	-	4,249.00		74,060.00	- 82,870,000.00	-	8,985,000.00	-	3,219,000.00
-	693.00		4,249.00		80,970.00	- 120,600,000.00	-	10,030,000.00	-	3,219,000.00
-	693.00		10,620.00		77,520.00	- 165,000,000.00	-	9,508,000.00	-	2,864,000.00
-	693.00		10,620.00		77,520.00	- 165,000,000.00	-	9,508,000.00	-	2,864,000.00
-	693.00		6,370.00		74,060.00	- 146,200,000.00	-	8,985,000.00	-	2,864,000.00
-	693.00		14,870.00		80,970.00	- 183,800,000.00	-	10,030,000.00	-	2,864,000.00
-	693.00		14,870.00		80,970.00	- 183,800,000.00	-	10,030,000.00	-	2,864,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 107 di 215

Reazioni vincolari - STR A1											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	14,900.00		0.06		77,520.00	-	101,700,000.00	-	112,000,000.00	-	28,170,000.00
-	14,900.00		0.06		77,520.00	-	101,700,000.00	-	112,000,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		74,060.00	-	82,870,000.00	-	111,500,000.00	-	28,170,000.00
-	14,900.00		4,249.00		80,970.00	-	120,600,000.00	-	112,500,000.00	-	28,170,000.00
-	14,900.00		10,620.00		77,520.00	-	165,000,000.00	-	112,000,000.00	-	27,820,000.00
-	14,900.00		10,620.00		77,520.00	-	165,000,000.00	-	112,000,000.00	-	27,820,000.00
-	14,900.00		6,370.00		65,350.00	-	120,100,000.00	-	111,500,000.00	-	27,820,000.00
-	14,900.00		14,870.00		72,260.00	-	157,800,000.00	-	112,500,000.00	-	27,820,000.00
-	14,900.00		6,370.00		65,350.00	-	120,100,000.00	-	111,500,000.00	-	27,820,000.00
-	14,900.00		14,870.00		72,260.00	-	157,800,000.00	-	112,500,000.00	-	27,820,000.00
-	14,900.00		6,370.00		74,060.00	-	146,200,000.00	-	111,500,000.00	-	27,820,000.00
-	14,900.00		14,870.00		80,970.00	-	183,800,000.00	-	112,500,000.00	-	27,820,000.00
-	14,900.00		6,370.00		74,060.00	-	146,200,000.00	-	111,500,000.00	-	27,820,000.00
-	14,900.00		14,870.00		80,970.00	-	183,800,000.00	-	112,500,000.00	-	27,820,000.00
	0.00		6,370.00		76,000.00	-	134,300,000.00	-	2,694,000.00		354,700.00
	0.00		14,870.00		82,910.00	-	172,000,000.00	-	3,741,000.00		354,700.00
-	14,210.00		0.05		79,460.00	-	89,820,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00		82,910.00	-	108,700,000.00	-	106,200,000.00	-	24,950,000.00
-	14,210.00		10,620.00		79,460.00	-	153,100,000.00	-	105,700,000.00	-	24,600,000.00
-	14,210.00		10,620.00		79,460.00	-	153,100,000.00	-	105,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00		76,000.00	-	134,300,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		82,910.00	-	172,000,000.00	-	106,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		76,000.00	-	134,300,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		82,910.00	-	172,000,000.00	-	106,200,000.00	-	24,600,000.00
-	693.00		4,249.00		87,950.00	-	130,700,000.00	-	10,770,000.00	-	3,219,000.00
-	693.00	-	4,249.00		81,040.00	-	93,000,000.00	-	9,727,000.00	-	3,219,000.00
-	693.00		4,249.00		87,950.00	-	130,700,000.00	-	10,770,000.00	-	3,219,000.00
-	693.00		6,370.00		81,040.00	-	156,300,000.00	-	9,727,000.00	-	2,864,000.00
-	693.00		6,370.00		81,040.00	-	156,300,000.00	-	9,727,000.00	-	2,864,000.00
-	14,900.00	-	4,249.00		81,040.00	-	93,000,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		87,950.00	-	130,700,000.00	-	113,300,000.00	-	28,170,000.00
-	14,900.00		10,620.00		84,500.00	-	175,100,000.00	-	112,700,000.00	-	27,820,000.00
-	14,900.00		10,620.00		84,500.00	-	175,100,000.00	-	112,700,000.00	-	27,820,000.00
-	14,900.00		6,370.00		72,330.00	-	130,200,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		79,240.00	-	167,900,000.00	-	113,300,000.00	-	27,820,000.00
-	14,900.00		6,370.00		72,330.00	-	130,200,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		79,240.00	-	167,900,000.00	-	113,300,000.00	-	27,820,000.00
-	14,900.00		6,370.00		81,040.00	-	156,300,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		87,950.00	-	194,000,000.00	-	113,300,000.00	-	27,820,000.00
-	14,900.00		6,370.00		81,040.00	-	156,300,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		87,950.00	-	194,000,000.00	-	113,300,000.00	-	27,820,000.00
	0.00		0.05		63,130.00	-	75,120,000.00	-	2,475,000.00		34.61
	0.00		4,249.00		66,590.00	-	93,960,000.00	-	2,999,000.00		39.71
	0.00	-	11,540.00		63,130.00	-	4,620,000.00	-	2,475,000.00	-	354,600.00
	0.00	-	15,790.00		59,680.00		14,230,000.00	-	1,952,000.00	-	354,600.00
-	14,210.00		0.04		63,130.00	-	75,120,000.00	-	105,000,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		63,130.00	-	4,620,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00		63,130.00	-	4,620,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		59,680.00		14,230,000.00	-	104,400,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		66,590.00	-	23,470,000.00	-	105,500,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		59,680.00		14,230,000.00	-	104,400,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		66,590.00	-	23,470,000.00	-	105,500,000.00	-	25,310,000.00
-	693.00		0.07		68,170.00	-	97,140,000.00	-	9,508,000.00	-	3,219,000.00
-	693.00		0.07		68,170.00	-	97,140,000.00	-	9,508,000.00	-	3,219,000.00
-	693.00	-	4,249.00		64,720.00	-	78,290,000.00	-	8,985,000.00	-	3,219,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 108 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	693.00	-	15,790.00	64,720.00	-	7,797,000.00	-	8,985,000.00	-	3,574,000.00
-	693.00	-	15,790.00	64,720.00	-	7,797,000.00	-	8,985,000.00	-	3,574,000.00
-	693.00	-	7,292.00	71,630.00	-	45,490,000.00	-	10,030,000.00	-	3,574,000.00
-	14,900.00		0.05	68,170.00	-	97,140,000.00	-	112,000,000.00	-	28,170,000.00
-	14,900.00		4,249.00	71,630.00	-	116,000,000.00	-	112,500,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	64,720.00	-	78,290,000.00	-	111,500,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	68,170.00	-	26,640,000.00	-	112,000,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	68,170.00	-	26,640,000.00	-	112,000,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	56,000.00	-	18,300,000.00	-	111,500,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	62,920.00	-	19,400,000.00	-	112,500,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	56,000.00	-	18,300,000.00	-	111,500,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	62,920.00	-	19,400,000.00	-	112,500,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	64,720.00	-	7,797,000.00	-	111,500,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	71,630.00	-	45,490,000.00	-	112,500,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	64,720.00	-	7,797,000.00	-	111,500,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	71,630.00	-	45,490,000.00	-	112,500,000.00	-	28,530,000.00
	0.00		0.06	70,120.00	-	85,250,000.00	-	3,218,000.00		39.27
	0.00	-	11,540.00	70,120.00	-	14,750,000.00	-	3,218,000.00	-	354,600.00
	0.00	-	15,790.00	66,660.00	-	4,096,000.00	-	2,694,000.00	-	354,600.00
	0.00	-	7,292.00	73,570.00	-	33,600,000.00	-	3,741,000.00	-	354,600.00
-	14,210.00	-	4,249.00	66,660.00	-	66,400,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00	73,570.00	-	104,100,000.00	-	106,200,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00	70,120.00	-	14,750,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00	70,120.00	-	14,750,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	66,660.00	-	4,096,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	73,570.00	-	33,600,000.00	-	106,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	66,660.00	-	4,096,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	73,570.00	-	33,600,000.00	-	106,200,000.00	-	25,310,000.00
-	693.00		0.08	75,160.00	-	107,300,000.00	-	10,250,000.00	-	3,219,000.00
-	693.00		0.08	75,160.00	-	107,300,000.00	-	10,250,000.00	-	3,219,000.00
-	693.00		4,249.00	78,610.00	-	126,100,000.00	-	10,770,000.00	-	3,219,000.00
-	693.00	-	11,540.00	75,160.00	-	36,780,000.00	-	10,250,000.00	-	3,574,000.00
-	693.00	-	15,790.00	71,700.00	-	17,930,000.00	-	9,727,000.00	-	3,574,000.00
-	693.00	-	7,292.00	78,610.00	-	55,620,000.00	-	10,770,000.00	-	3,574,000.00
-	14,900.00		4,249.00	78,610.00	-	126,100,000.00	-	113,300,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	75,160.00	-	36,780,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	75,160.00	-	36,780,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	62,990.00	-	8,164,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	69,900.00	-	29,530,000.00	-	113,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	62,990.00	-	8,164,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	69,900.00	-	29,530,000.00	-	113,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	71,700.00	-	17,930,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	78,610.00	-	55,620,000.00	-	113,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	71,700.00	-	17,930,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	78,610.00	-	55,620,000.00	-	113,300,000.00	-	28,530,000.00
	0.00		0.06	72,480.00	-	79,690,000.00	-	2,475,000.00		36.87
	0.00	-	11,540.00	72,480.00	-	9,196,000.00	-	2,475,000.00	-	354,600.00
	0.00	-	7,292.00	75,930.00	-	28,040,000.00	-	2,999,000.00	-	354,600.00
	0.00	-	15,790.00	69,020.00	-	9,652,000.00	-	1,952,000.00	-	354,600.00
-	14,210.00		0.04	72,480.00	-	79,690,000.00	-	105,000,000.00	-	24,950,000.00
-	14,210.00		0.04	72,480.00	-	79,690,000.00	-	105,000,000.00	-	24,950,000.00
-	14,210.00		4,249.00	75,930.00	-	98,540,000.00	-	105,500,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00	72,480.00	-	9,196,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00	72,480.00	-	9,196,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	69,020.00	-	9,652,000.00	-	104,400,000.00	-	25,310,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE					
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 109 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,210.00	-	7,292.00	75,930.00	-	28,040,000.00	-	105,500,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	69,020.00	-	9,652,000.00	-	104,400,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	75,930.00	-	28,040,000.00	-	105,500,000.00	-	25,310,000.00
-	693.00	-	11,540.00	77,520.00	-	31,220,000.00	-	9,508,000.00	-	3,574,000.00
-	693.00	-	15,790.00	74,060.00	-	12,370,000.00	-	8,985,000.00	-	3,574,000.00
-	693.00	-	15,790.00	74,060.00	-	12,370,000.00	-	8,985,000.00	-	3,574,000.00
-	14,900.00	-	4,249.00	74,060.00	-	82,870,000.00	-	111,500,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	80,970.00	-	120,600,000.00	-	112,500,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	77,520.00	-	31,220,000.00	-	112,000,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	77,520.00	-	31,220,000.00	-	112,000,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	65,350.00	-	13,720,000.00	-	111,500,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	72,260.00	-	23,980,000.00	-	112,500,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	65,350.00	-	13,720,000.00	-	111,500,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	72,260.00	-	23,980,000.00	-	112,500,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	74,060.00	-	12,370,000.00	-	111,500,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	80,970.00	-	50,070,000.00	-	112,500,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	74,060.00	-	12,370,000.00	-	111,500,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	80,970.00	-	50,070,000.00	-	112,500,000.00	-	28,530,000.00
	0.00		0.06	79,460.00	-	89,820,000.00	-	3,218,000.00		41.38
	0.00		0.06	79,460.00	-	89,820,000.00	-	3,218,000.00		41.53
	0.00	-	4,249.00	76,000.00	-	70,980,000.00	-	2,694,000.00		36.28
	0.00		4,249.00	82,910.00	-	108,700,000.00	-	3,741,000.00		46.48
	0.00	-	11,540.00	79,460.00	-	19,330,000.00	-	3,218,000.00	-	354,600.00
	0.00	-	7,292.00	82,910.00	-	38,180,000.00	-	3,741,000.00	-	354,600.00
	0.00	-	15,790.00	76,000.00	-	479,500.00	-	2,694,000.00	-	354,600.00
	0.00	-	7,292.00	82,910.00	-	38,180,000.00	-	3,741,000.00	-	354,600.00
-	14,210.00		0.05	79,460.00	-	89,820,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00	76,000.00	-	70,980,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00	76,000.00	-	70,980,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00	82,910.00	-	108,700,000.00	-	106,200,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00	79,460.00	-	19,330,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00	79,460.00	-	19,330,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	76,000.00	-	479,400.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	82,910.00	-	38,170,000.00	-	106,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	76,000.00	-	479,400.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	82,910.00	-	38,170,000.00	-	106,200,000.00	-	25,310,000.00
-	693.00	-	11,540.00	84,500.00	-	41,350,000.00	-	10,250,000.00	-	3,574,000.00
-	693.00	-	7,292.00	87,950.00	-	60,200,000.00	-	10,770,000.00	-	3,574,000.00
-	693.00	-	15,790.00	81,040.00	-	22,500,000.00	-	9,727,000.00	-	3,574,000.00
-	693.00	-	7,292.00	87,950.00	-	60,200,000.00	-	10,770,000.00	-	3,574,000.00
-	14,900.00		0.07	84,500.00	-	111,800,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00		0.07	84,500.00	-	111,800,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00		4,249.00	87,950.00	-	130,700,000.00	-	113,300,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	81,040.00	-	93,000,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	84,500.00	-	41,350,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	84,500.00	-	41,350,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	72,330.00	-	3,588,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	79,240.00	-	34,110,000.00	-	113,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	72,330.00	-	3,588,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	79,240.00	-	34,110,000.00	-	113,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	81,040.00	-	22,500,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	87,950.00	-	60,200,000.00	-	113,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	81,040.00	-	22,500,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	87,950.00	-	60,200,000.00	-	113,300,000.00	-	28,530,000.00
	0.00		10,620.00	54,420.00	-	112,300,000.00	-	2,475,000.00		354,700.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 110 di 215

<b>Reazioni vincolari - STR A1</b>						
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>	
0.00	6,370.00	50,960.00	- 93,460,000.00	- 1,952,000.00	354,700.00	
0.00	14,870.00	57,880.00	- 131,200,000.00	- 2,999,000.00	354,700.00	
14,210.00	0.05	54,420.00	- 49,020,000.00	100,000,000.00	24,950,000.00	
14,210.00	- 4,249.00	50,960.00	- 30,180,000.00	100,500,000.00	24,950,000.00	
14,210.00	10,620.00	54,420.00	- 112,300,000.00	100,000,000.00	25,310,000.00	
14,210.00	6,370.00	50,960.00	- 93,460,000.00	100,500,000.00	25,310,000.00	
14,210.00	14,870.00	57,880.00	- 131,200,000.00	99,480,000.00	25,310,000.00	
- 693.00	0.05	59,460.00	- 71,050,000.00	- 9,508,000.00	- 3,219,000.00	
- 693.00	10,620.00	59,460.00	- 134,300,000.00	- 9,508,000.00	- 2,864,000.00	
- 693.00	6,370.00	56,000.00	- 115,500,000.00	- 8,985,000.00	- 2,864,000.00	
- 693.00	14,870.00	62,920.00	- 153,200,000.00	- 10,030,000.00	- 2,864,000.00	
13,510.00	4,249.00	62,920.00	- 89,900,000.00	92,450,000.00	21,740,000.00	
13,510.00	10,620.00	59,460.00	- 134,300,000.00	92,970,000.00	22,090,000.00	
13,510.00	6,370.00	56,000.00	- 115,500,000.00	93,490,000.00	22,090,000.00	
13,510.00	14,870.00	62,920.00	- 153,200,000.00	92,450,000.00	22,090,000.00	
0.00	4,249.00	64,860.00	- 78,000,000.00	- 3,741,000.00	32.08	
14,210.00	- 4,249.00	57,950.00	- 40,310,000.00	99,780,000.00	24,950,000.00	
14,210.00	10,620.00	61,400.00	- 122,400,000.00	99,260,000.00	25,310,000.00	
14,210.00	6,370.00	57,950.00	- 103,600,000.00	99,780,000.00	25,310,000.00	
14,210.00	14,870.00	64,860.00	- 141,300,000.00	98,740,000.00	25,310,000.00	
- 693.00	0.06	66,440.00	- 81,180,000.00	- 10,250,000.00	- 3,219,000.00	
- 693.00	4,249.00	69,900.00	- 100,000,000.00	- 10,770,000.00	- 3,219,000.00	
- 693.00	6,370.00	62,990.00	- 125,600,000.00	- 9,727,000.00	- 2,864,000.00	
13,510.00	0.07	66,440.00	- 81,180,000.00	92,230,000.00	21,740,000.00	
13,510.00	- 4,249.00	62,990.00	- 62,330,000.00	92,750,000.00	21,740,000.00	
13,510.00	10,620.00	66,440.00	- 144,500,000.00	92,230,000.00	22,090,000.00	
13,510.00	6,370.00	62,990.00	- 125,600,000.00	92,750,000.00	22,090,000.00	
13,510.00	14,870.00	69,900.00	- 163,300,000.00	91,700,000.00	22,090,000.00	
0.00	0.04	63,760.00	- 53,600,000.00	- 2,475,000.00	24.43	
0.00	4,249.00	67,220.00	- 72,450,000.00	- 2,999,000.00	29.54	
0.00	10,620.00	63,760.00	- 116,900,000.00	- 2,475,000.00	354,700.00	
0.00	6,370.00	60,310.00	- 98,030,000.00	- 1,952,000.00	354,700.00	
14,210.00	- 4,249.00	60,310.00	- 34,750,000.00	100,500,000.00	24,950,000.00	
14,210.00	4,249.00	67,220.00	- 72,450,000.00	99,480,000.00	24,950,000.00	
14,210.00	10,620.00	63,760.00	- 116,900,000.00	100,000,000.00	25,310,000.00	
14,210.00	6,370.00	60,310.00	- 98,030,000.00	100,500,000.00	25,310,000.00	
14,210.00	14,870.00	67,220.00	- 135,700,000.00	99,480,000.00	25,310,000.00	
- 693.00	10,620.00	68,800.00	- 138,900,000.00	- 9,508,000.00	- 2,864,000.00	
- 693.00	6,370.00	65,350.00	- 120,100,000.00	- 8,985,000.00	- 2,864,000.00	
- 693.00	14,870.00	72,260.00	- 157,800,000.00	- 10,030,000.00	- 2,864,000.00	
13,510.00	0.07	68,800.00	- 75,630,000.00	92,970,000.00	21,740,000.00	
13,510.00	- 4,249.00	65,350.00	- 56,780,000.00	93,490,000.00	21,740,000.00	
13,510.00	10,620.00	68,800.00	- 138,900,000.00	92,970,000.00	22,090,000.00	
13,510.00	6,370.00	65,350.00	- 120,100,000.00	93,490,000.00	22,090,000.00	
13,510.00	14,870.00	72,260.00	- 157,800,000.00	92,450,000.00	22,090,000.00	
0.00	0.05	70,750.00	- 63,730,000.00	- 3,218,000.00	29.09	
0.00	14,870.00	74,200.00	- 145,900,000.00	- 3,741,000.00	354,700.00	
14,210.00	0.06	70,750.00	- 63,730,000.00	99,260,000.00	24,950,000.00	
14,210.00	- 4,249.00	67,290.00	- 44,880,000.00	99,780,000.00	24,950,000.00	
14,210.00	4,249.00	74,200.00	- 82,580,000.00	98,740,000.00	24,950,000.00	
14,210.00	10,620.00	70,750.00	- 127,000,000.00	99,260,000.00	25,310,000.00	
14,210.00	6,370.00	67,290.00	- 108,200,000.00	99,780,000.00	25,310,000.00	
14,210.00	14,870.00	74,200.00	- 145,900,000.00	98,740,000.00	25,310,000.00	
13,510.00	0.07	75,790.00	- 85,760,000.00	92,230,000.00	21,740,000.00	
13,510.00	- 4,249.00	72,330.00	- 66,910,000.00	92,750,000.00	21,740,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17    Lotto 10    Codifica Documento EI2CLOC000006    Rev. A    Foglio 111 di 215

Reazioni vincolari - STR A1						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
13,510.00	4,249.00	79,240.00	- 104,600,000.00	91,700,000.00	21,740,000.00	
13,510.00	10,620.00	75,790.00	- 149,000,000.00	92,230,000.00	22,090,000.00	
13,510.00	6,370.00	72,330.00	- 130,200,000.00	92,750,000.00	22,090,000.00	
13,510.00	14,870.00	79,240.00	- 167,900,000.00	91,700,000.00	22,090,000.00	
0.00	- 4,249.00	50,960.00	- 30,180,000.00	- 1,952,000.00	17.22	
0.00	- 11,540.00	54,420.00	21,470,000.00	- 2,475,000.00	- 354,600.00	
0.00	- 15,790.00	50,960.00	40,320,000.00	- 1,952,000.00	- 354,600.00	
0.00	- 7,292.00	57,880.00	2,625,000.00	- 2,999,000.00	- 354,600.00	
14,210.00	4,249.00	57,880.00	- 67,870,000.00	99,480,000.00	24,950,000.00	
14,210.00	- 11,540.00	54,420.00	21,470,000.00	100,000,000.00	24,600,000.00	
14,210.00	- 15,790.00	50,960.00	40,320,000.00	100,500,000.00	24,600,000.00	
14,210.00	- 7,292.00	57,880.00	2,625,000.00	99,480,000.00	24,600,000.00	
- 693.00	4,249.00	62,920.00	- 89,900,000.00	- 10,030,000.00	- 3,219,000.00	
- 693.00	- 15,790.00	56,000.00	18,300,000.00	- 8,985,000.00	- 3,574,000.00	
- 693.00	- 7,292.00	62,920.00	- 19,400,000.00	- 10,030,000.00	- 3,574,000.00	
13,510.00	0.06	59,460.00	- 71,050,000.00	92,970,000.00	21,740,000.00	
13,510.00	- 4,249.00	56,000.00	- 52,200,000.00	93,490,000.00	21,740,000.00	
13,510.00	- 11,540.00	59,460.00	- 552,500.00	92,970,000.00	21,380,000.00	
13,510.00	- 15,790.00	56,000.00	18,300,000.00	93,490,000.00	21,380,000.00	
13,510.00	- 7,292.00	62,920.00	- 19,400,000.00	92,450,000.00	21,380,000.00	
0.00	- 11,540.00	61,400.00	11,340,000.00	- 3,218,000.00	- 354,600.00	
0.00	- 7,292.00	64,860.00	- 7,507,000.00	- 3,741,000.00	- 354,600.00	
14,210.00	0.06	61,400.00	- 59,160,000.00	99,260,000.00	24,950,000.00	
14,210.00	4,249.00	64,860.00	- 78,000,000.00	98,740,000.00	24,950,000.00	
14,210.00	- 11,540.00	61,400.00	11,340,000.00	99,260,000.00	24,600,000.00	
14,210.00	- 15,790.00	57,950.00	30,190,000.00	99,780,000.00	24,600,000.00	
14,210.00	- 7,292.00	64,860.00	- 7,507,000.00	98,740,000.00	24,600,000.00	
- 693.00	- 11,540.00	66,440.00	- 10,680,000.00	- 10,250,000.00	- 3,574,000.00	
- 693.00	- 15,790.00	62,990.00	8,164,000.00	- 9,727,000.00	- 3,574,000.00	
- 693.00	- 7,292.00	69,900.00	- 29,530,000.00	- 10,770,000.00	- 3,574,000.00	
13,510.00	4,249.00	69,900.00	- 100,000,000.00	91,700,000.00	21,740,000.00	
13,510.00	- 11,540.00	66,440.00	- 10,680,000.00	92,230,000.00	21,380,000.00	
13,510.00	- 15,790.00	62,990.00	8,164,000.00	92,750,000.00	21,380,000.00	
13,510.00	- 7,292.00	69,900.00	- 29,530,000.00	91,700,000.00	21,380,000.00	
0.00	- 11,540.00	63,760.00	16,900,000.00	- 2,475,000.00	- 354,600.00	
0.00	- 7,292.00	67,220.00	- 1,951,000.00	- 2,999,000.00	- 354,600.00	
14,210.00	0.05	63,760.00	- 53,600,000.00	100,000,000.00	24,950,000.00	
14,210.00	- 11,540.00	63,760.00	16,900,000.00	100,000,000.00	24,600,000.00	
14,210.00	- 15,790.00	60,310.00	35,740,000.00	100,500,000.00	24,600,000.00	
14,210.00	- 7,292.00	67,220.00	- 1,951,000.00	99,480,000.00	24,600,000.00	
13,510.00	4,249.00	72,260.00	- 94,470,000.00	92,450,000.00	21,740,000.00	
13,510.00	- 11,540.00	68,800.00	- 5,128,000.00	92,970,000.00	21,380,000.00	
13,510.00	- 15,790.00	65,350.00	13,720,000.00	93,490,000.00	21,380,000.00	
13,510.00	- 7,292.00	72,260.00	- 23,980,000.00	92,450,000.00	21,380,000.00	
0.00	4,249.00	74,200.00	- 82,580,000.00	- 3,741,000.00	34.20	
0.00	- 11,540.00	70,750.00	6,765,000.00	- 3,218,000.00	- 354,600.00	
0.00	- 15,790.00	67,290.00	25,610,000.00	- 2,694,000.00	- 354,600.00	
14,210.00	- 11,540.00	70,750.00	6,765,000.00	99,260,000.00	24,600,000.00	
14,210.00	- 15,790.00	67,290.00	25,610,000.00	99,780,000.00	24,600,000.00	
14,210.00	- 7,292.00	74,200.00	- 12,080,000.00	98,740,000.00	24,600,000.00	
- 693.00	- 11,540.00	75,790.00	- 15,260,000.00	- 10,250,000.00	- 3,574,000.00	
- 693.00	- 15,790.00	72,330.00	3,588,000.00	- 9,727,000.00	- 3,574,000.00	
- 693.00	- 7,292.00	79,240.00	- 34,110,000.00	- 10,770,000.00	- 3,574,000.00	
13,510.00	- 11,540.00	75,790.00	- 15,260,000.00	92,230,000.00	21,380,000.00	
13,510.00	- 15,790.00	72,330.00	3,588,000.00	92,750,000.00	21,380,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 112 di 215

Reazioni vincolari - STR A1												
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm		
	13,510.00	-	7,292.00		79,240.00	-	34,110,000.00		91,700,000.00		21,380,000.00	
	-	14,210.00		0.02	54,420.00	-	49,020,000.00		-	105,000,000.00	-	24,950,000.00
	-	14,210.00	-	4,249.00	50,960.00	-	30,180,000.00		-	104,400,000.00	-	24,950,000.00
	-	14,210.00		4,249.00	57,880.00	-	67,870,000.00		-	105,500,000.00	-	24,950,000.00
	-	14,210.00		10,620.00	54,420.00	-	112,300,000.00		-	105,000,000.00	-	24,600,000.00
	-	14,210.00		6,370.00	50,960.00	-	93,460,000.00		-	104,400,000.00	-	24,600,000.00
	-	14,210.00		14,870.00	57,880.00	-	131,200,000.00		-	105,500,000.00	-	24,600,000.00
	-	14,900.00	-	4,249.00	56,000.00	-	52,200,000.00		-	111,500,000.00	-	28,170,000.00
	-	14,900.00		10,620.00	59,460.00	-	134,300,000.00		-	112,000,000.00	-	27,820,000.00
	-	14,900.00		6,370.00	56,000.00	-	115,500,000.00		-	111,500,000.00	-	27,820,000.00
	-	14,900.00		14,870.00	62,920.00	-	153,200,000.00		-	112,500,000.00	-	27,820,000.00
	0.00			0.04	61,400.00	-	59,160,000.00		-	3,218,000.00		26.98
	0.00	-		4,249.00	57,950.00	-	40,310,000.00		-	2,694,000.00		21.88
	0.00			10,620.00	61,400.00	-	122,400,000.00		-	3,218,000.00		354,700.00
	0.00			6,370.00	57,950.00	-	103,600,000.00		-	2,694,000.00		354,700.00
	0.00			14,870.00	64,860.00	-	141,300,000.00		-	3,741,000.00		354,700.00
	-	14,210.00	-	4,249.00	57,950.00	-	40,310,000.00		-	105,200,000.00	-	24,950,000.00
	-	14,210.00		4,249.00	64,860.00	-	78,000,000.00		-	106,200,000.00	-	24,950,000.00
	-	14,210.00		10,620.00	61,400.00	-	122,400,000.00		-	105,700,000.00	-	24,600,000.00
	-	14,210.00		6,370.00	57,950.00	-	103,600,000.00		-	105,200,000.00	-	24,600,000.00
	-	14,210.00		14,870.00	64,860.00	-	141,300,000.00		-	106,200,000.00	-	24,600,000.00
	-	693.00	-	4,249.00	62,990.00	-	62,330,000.00		-	9,727,000.00	-	3,219,000.00
	-	693.00		10,620.00	66,440.00	-	144,500,000.00		-	10,250,000.00	-	2,864,000.00
	-	693.00		14,870.00	69,900.00	-	163,300,000.00		-	10,770,000.00	-	2,864,000.00
	-	14,900.00	-	4,249.00	62,990.00	-	62,330,000.00		-	112,200,000.00	-	28,170,000.00
	-	14,900.00		4,249.00	69,900.00	-	100,000,000.00		-	113,300,000.00	-	28,170,000.00
	-	14,900.00		10,620.00	66,440.00	-	144,500,000.00		-	112,700,000.00	-	27,820,000.00
	-	14,900.00		6,370.00	62,990.00	-	125,600,000.00		-	112,200,000.00	-	27,820,000.00
	-	14,900.00		14,870.00	69,900.00	-	163,300,000.00		-	113,300,000.00	-	27,820,000.00
	0.00			14,870.00	67,220.00	-	135,700,000.00		-	2,999,000.00		354,700.00
	-	14,210.00	-	4,249.00	60,310.00	-	34,750,000.00		-	104,400,000.00	-	24,950,000.00
	-	14,210.00		4,249.00	67,220.00	-	72,450,000.00		-	105,500,000.00	-	24,950,000.00
	-	14,210.00		10,620.00	63,760.00	-	116,900,000.00		-	105,000,000.00	-	24,600,000.00
	-	14,210.00		6,370.00	60,310.00	-	98,030,000.00		-	104,400,000.00	-	24,600,000.00
	-	14,210.00		14,870.00	67,220.00	-	135,700,000.00		-	105,500,000.00	-	24,600,000.00
	-	693.00	-	4,249.00	65,350.00	-	56,780,000.00		-	8,985,000.00	-	3,219,000.00
	-	693.00		4,249.00	72,260.00	-	94,470,000.00		-	10,030,000.00	-	3,219,000.00
	-	14,900.00		0.04	68,800.00	-	75,620,000.00		-	112,000,000.00	-	28,170,000.00
	-	14,900.00	-	4,249.00	65,350.00	-	56,780,000.00		-	111,500,000.00	-	28,170,000.00
	-	14,900.00		4,249.00	72,260.00	-	94,470,000.00		-	112,500,000.00	-	28,170,000.00
	-	14,900.00		10,620.00	68,800.00	-	138,900,000.00		-	112,000,000.00	-	27,820,000.00
	-	14,900.00		6,370.00	65,350.00	-	120,100,000.00		-	111,500,000.00	-	27,820,000.00
	-	14,900.00		14,870.00	72,260.00	-	157,800,000.00		-	112,500,000.00	-	27,820,000.00
	0.00			10,620.00	70,750.00	-	127,000,000.00		-	3,218,000.00		354,700.00
	0.00			6,370.00	67,290.00	-	108,200,000.00		-	2,694,000.00		354,700.00
	-	14,210.00		0.03	70,750.00	-	63,730,000.00		-	105,700,000.00	-	24,950,000.00
	-	14,210.00		10,620.00	70,750.00	-	127,000,000.00		-	105,700,000.00	-	24,600,000.00
	-	14,210.00		6,370.00	67,290.00	-	108,200,000.00		-	105,200,000.00	-	24,600,000.00
	-	14,210.00		14,870.00	74,200.00	-	145,900,000.00		-	106,200,000.00	-	24,600,000.00
	-	693.00	-	4,249.00	72,330.00	-	66,910,000.00		-	9,727,000.00	-	3,219,000.00
	-	693.00		4,249.00	79,240.00	-	104,600,000.00		-	10,770,000.00	-	3,219,000.00
	-	693.00		10,620.00	75,790.00	-	149,000,000.00		-	10,250,000.00	-	2,864,000.00
	-	693.00		6,370.00	72,330.00	-	130,200,000.00		-	9,727,000.00	-	2,864,000.00
	-	693.00		14,870.00	79,240.00	-	167,900,000.00		-	10,770,000.00	-	2,864,000.00
	-	14,900.00		10,620.00	75,790.00	-	149,000,000.00		-	112,700,000.00	-	27,820,000.00



<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 113 di 215

Reazioni vincolari - STR A1											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	14,900.00		6,370.00		72,330.00	-	130,200,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		79,240.00	-	167,900,000.00	-	113,300,000.00	-	27,820,000.00
	0.00		0.04		54,420.00	-	49,020,000.00	-	2,475,000.00		22.32
	0.00		4,249.00		57,880.00	-	67,870,000.00	-	2,999,000.00		27.42
-	14,210.00	-	11,540.00		54,420.00		21,470,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		50,960.00		40,320,000.00	-	104,400,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		57,880.00		2,625,000.00	-	105,500,000.00	-	25,310,000.00
-	693.00	-	4,249.00		56,000.00	-	52,200,000.00	-	8,985,000.00	-	3,219,000.00
-	693.00	-	11,540.00		59,460.00	-	552,300.00	-	9,508,000.00	-	3,574,000.00
-	14,900.00		0.04		59,460.00	-	71,050,000.00	-	112,000,000.00	-	28,170,000.00
-	14,900.00		4,249.00		62,920.00	-	89,900,000.00	-	112,500,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00		59,460.00	-	552,200.00	-	112,000,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		56,000.00		18,300,000.00	-	111,500,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		62,920.00	-	19,400,000.00	-	112,500,000.00	-	28,530,000.00
	0.00	-	15,790.00		57,950.00		30,190,000.00	-	2,694,000.00	-	354,600.00
-	14,210.00		0.03		61,400.00	-	59,160,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		61,400.00		11,340,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		57,950.00		30,190,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		64,860.00	-	7,507,000.00	-	106,200,000.00	-	25,310,000.00
-	14,900.00		0.04		66,440.00	-	81,180,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00		66,440.00	-	10,680,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		62,990.00		8,164,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		69,900.00	-	29,530,000.00	-	113,300,000.00	-	28,530,000.00
	0.00	-	4,249.00		60,310.00	-	34,750,000.00	-	1,952,000.00		19.33
	0.00	-	15,790.00		60,310.00		35,740,000.00	-	1,952,000.00	-	354,600.00
-	14,210.00		0.03		63,760.00	-	53,600,000.00	-	105,000,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		63,760.00		16,900,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		60,310.00		35,740,000.00	-	104,400,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		67,220.00	-	1,951,000.00	-	105,500,000.00	-	25,310,000.00
-	693.00		0.05		68,800.00	-	75,620,000.00	-	9,508,000.00	-	3,219,000.00
-	693.00	-	11,540.00		68,800.00	-	5,128,000.00	-	9,508,000.00	-	3,574,000.00
-	693.00	-	15,790.00		65,350.00		13,720,000.00	-	8,985,000.00	-	3,574,000.00
-	693.00	-	7,292.00		72,260.00	-	23,980,000.00	-	10,030,000.00	-	3,574,000.00
-	14,900.00	-	11,540.00		68,800.00	-	5,128,000.00	-	112,000,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		65,350.00		13,720,000.00	-	111,500,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		72,260.00	-	23,980,000.00	-	112,500,000.00	-	28,530,000.00
	0.00	-	4,249.00		67,290.00	-	44,880,000.00	-	2,694,000.00		23.99
	0.00	-	7,292.00		74,200.00	-	12,080,000.00	-	3,741,000.00	-	354,600.00
-	14,210.00	-	4,249.00		67,290.00	-	44,880,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		74,200.00	-	82,580,000.00	-	106,200,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		70,750.00		6,765,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		67,290.00		25,610,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		74,200.00	-	12,080,000.00	-	106,200,000.00	-	25,310,000.00
-	693.00		0.06		75,790.00	-	85,760,000.00	-	10,250,000.00	-	3,219,000.00
-	14,900.00		0.05		75,790.00	-	85,760,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		72,330.00	-	66,910,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		79,240.00	-	104,600,000.00	-	113,300,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00		75,790.00	-	15,260,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		72,330.00		3,588,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		79,240.00	-	34,110,000.00	-	113,300,000.00	-	28,530,000.00
	0.00		10,620.00		54,420.00	-	112,300,000.00	-	2,475,000.00		354,700.00
	0.00		6,370.00		55,320.00	-	106,500,000.00	-	1,952,000.00		354,700.00
	14,210.00		0.05		54,420.00	-	49,020,000.00		100,000,000.00		24,950,000.00
	14,210.00	-	4,249.00		50,960.00	-	30,180,000.00		100,500,000.00		24,950,000.00
	14,210.00		4,249.00		62,230.00	-	80,920,000.00		99,480,000.00		24,950,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 114 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
14,210.00		10,620.00		54,420.00	-	112,300,000.00		100,000,000.00		25,310,000.00
14,210.00		10,620.00		58,780.00	-	125,400,000.00		100,000,000.00		25,310,000.00
14,210.00		6,370.00		50,960.00	-	93,460,000.00		100,500,000.00		25,310,000.00
14,210.00		14,870.00		57,880.00	-	131,200,000.00		99,480,000.00		25,310,000.00
14,210.00		6,370.00		55,320.00	-	106,500,000.00		100,500,000.00		25,310,000.00
14,210.00		14,870.00		62,230.00	-	144,200,000.00		99,480,000.00		25,310,000.00
-	693.00	0.05		59,460.00	-	71,050,000.00	-	9,508,000.00	-	3,219,000.00
-	693.00	0.06		63,820.00	-	84,100,000.00	-	9,508,000.00	-	3,219,000.00
-	693.00	-	4,249.00	56,000.00	-	52,200,000.00	-	8,985,000.00	-	3,219,000.00
-	693.00	-	4,249.00	62,920.00	-	89,900,000.00	-	10,030,000.00	-	3,219,000.00
-	693.00	-	10,620.00	59,460.00	-	134,300,000.00	-	9,508,000.00	-	2,864,000.00
-	693.00	-	10,620.00	63,820.00	-	147,400,000.00	-	9,508,000.00	-	2,864,000.00
-	693.00	-	14,870.00	62,920.00	-	153,200,000.00	-	10,030,000.00	-	2,864,000.00
-	693.00	-	6,370.00	60,360.00	-	128,500,000.00	-	8,985,000.00	-	2,864,000.00
-	693.00	-	14,870.00	67,270.00	-	166,200,000.00	-	10,030,000.00	-	2,864,000.00
13,510.00		0.06		59,460.00	-	71,050,000.00		92,970,000.00		21,740,000.00
13,510.00	-	4,249.00		56,000.00	-	52,200,000.00		93,490,000.00		21,740,000.00
13,510.00	-	4,249.00		62,920.00	-	89,900,000.00		92,450,000.00		21,740,000.00
13,510.00	-	10,620.00		59,460.00	-	134,300,000.00		92,970,000.00		22,090,000.00
13,510.00	-	10,620.00		63,820.00	-	147,400,000.00		92,970,000.00		22,090,000.00
13,510.00	-	6,370.00		56,000.00	-	115,500,000.00		93,490,000.00		22,090,000.00
13,510.00	-	14,870.00		62,920.00	-	153,200,000.00		92,450,000.00		22,090,000.00
13,510.00	-	6,370.00		60,360.00	-	128,500,000.00		93,490,000.00		22,090,000.00
13,510.00	-	14,870.00		67,270.00	-	166,200,000.00		92,450,000.00		22,090,000.00
13,510.00	-	6,370.00		60,360.00	-	128,500,000.00		93,490,000.00		22,090,000.00
13,510.00	-	14,870.00		67,270.00	-	166,200,000.00		92,450,000.00		22,090,000.00
0.00	-	4,249.00		57,950.00	-	40,310,000.00	-	2,694,000.00		22.37
0.00	-	4,249.00		69,220.00	-	91,050,000.00	-	3,741,000.00		38.59
0.00	-	10,620.00		65,760.00	-	135,500,000.00	-	3,218,000.00		354,700.00
14,210.00		0.06		61,400.00	-	59,160,000.00		99,260,000.00		24,950,000.00
14,210.00	-	4,249.00		57,950.00	-	40,310,000.00		99,780,000.00		24,950,000.00
14,210.00	-	4,249.00		62,300.00	-	53,350,000.00		99,780,000.00		24,950,000.00
14,210.00	-	4,249.00		69,220.00	-	91,050,000.00		98,740,000.00		24,950,000.00
14,210.00	-	10,620.00		61,400.00	-	122,400,000.00		99,260,000.00		25,310,000.00
14,210.00	-	10,620.00		65,760.00	-	135,500,000.00		99,260,000.00		25,310,000.00
14,210.00	-	6,370.00		57,950.00	-	103,600,000.00		99,780,000.00		25,310,000.00
14,210.00	-	14,870.00		64,860.00	-	141,300,000.00		98,740,000.00		25,310,000.00
14,210.00	-	6,370.00		62,300.00	-	116,600,000.00		99,780,000.00		25,310,000.00
14,210.00	-	14,870.00		69,220.00	-	154,300,000.00		98,740,000.00		25,310,000.00
-	693.00	-	4,249.00	62,990.00	-	62,330,000.00	-	9,727,000.00	-	3,219,000.00
-	693.00	-	10,620.00	66,440.00	-	144,500,000.00	-	10,250,000.00	-	2,864,000.00
-	693.00	-	10,620.00	70,800.00	-	157,500,000.00	-	10,250,000.00	-	2,864,000.00
-	693.00	-	14,870.00	69,900.00	-	163,300,000.00	-	10,770,000.00	-	2,864,000.00
-	693.00	-	6,370.00	67,340.00	-	138,700,000.00	-	9,727,000.00	-	2,864,000.00
-	693.00	-	14,870.00	74,260.00	-	176,400,000.00	-	10,770,000.00	-	2,864,000.00
13,510.00		0.07		66,440.00	-	81,180,000.00		92,230,000.00		21,740,000.00
13,510.00	-	4,249.00		62,990.00	-	62,330,000.00		92,750,000.00		21,740,000.00
13,510.00	-	10,620.00		66,440.00	-	144,500,000.00		92,230,000.00		22,090,000.00
13,510.00	-	10,620.00		70,800.00	-	157,500,000.00		92,230,000.00		22,090,000.00
13,510.00	-	6,370.00		62,990.00	-	125,600,000.00		92,750,000.00		22,090,000.00
13,510.00	-	14,870.00		69,900.00	-	163,300,000.00		91,700,000.00		22,090,000.00
13,510.00	-	6,370.00		67,340.00	-	138,700,000.00		92,750,000.00		22,090,000.00
13,510.00	-	14,870.00		74,260.00	-	176,400,000.00		91,700,000.00		22,090,000.00
13,510.00	-	6,370.00		67,340.00	-	138,700,000.00		92,750,000.00		22,090,000.00
13,510.00	-	14,870.00		74,260.00	-	176,400,000.00		91,700,000.00		22,090,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 115 di 215

Reazioni vincolari - STR A1						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
0.00	10,620.00	68,120.00	- 129,900,000.00	- 2,475,000.00	354,700.00	
0.00	6,370.00	60,310.00	- 98,030,000.00	- 1,952,000.00	354,700.00	
0.00	14,870.00	67,220.00	- 135,700,000.00	- 2,999,000.00	354,700.00	
0.00	6,370.00	64,660.00	- 111,100,000.00	- 1,952,000.00	354,700.00	
14,210.00	0.05	63,760.00	- 53,600,000.00	100,000,000.00	24,950,000.00	
14,210.00	0.06	68,120.00	- 66,650,000.00	100,000,000.00	24,950,000.00	
14,210.00	- 4,249.00	60,310.00	- 34,750,000.00	100,500,000.00	24,950,000.00	
14,210.00	4,249.00	67,220.00	- 72,450,000.00	99,480,000.00	24,950,000.00	
14,210.00	4,249.00	71,580.00	- 85,490,000.00	99,480,000.00	24,950,000.00	
14,210.00	10,620.00	63,760.00	- 116,900,000.00	100,000,000.00	25,310,000.00	
14,210.00	10,620.00	68,120.00	- 129,900,000.00	100,000,000.00	25,310,000.00	
14,210.00	6,370.00	60,310.00	- 98,030,000.00	100,500,000.00	25,310,000.00	
14,210.00	14,870.00	67,220.00	- 135,700,000.00	99,480,000.00	25,310,000.00	
14,210.00	6,370.00	64,660.00	- 111,100,000.00	100,500,000.00	25,310,000.00	
14,210.00	14,870.00	71,580.00	- 148,800,000.00	99,480,000.00	25,310,000.00	
- 693.00	0.06	73,160.00	- 88,670,000.00	- 9,508,000.00	- 3,219,000.00	
- 693.00	4,249.00	72,260.00	- 94,470,000.00	- 10,030,000.00	- 3,219,000.00	
- 693.00	- 4,249.00	69,700.00	- 69,820,000.00	- 8,985,000.00	- 3,219,000.00	
- 693.00	6,370.00	65,350.00	- 120,100,000.00	- 8,985,000.00	- 2,864,000.00	
- 693.00	14,870.00	72,260.00	- 157,800,000.00	- 10,030,000.00	- 2,864,000.00	
- 693.00	6,370.00	69,700.00	- 133,100,000.00	- 8,985,000.00	- 2,864,000.00	
13,510.00	0.07	68,800.00	- 75,630,000.00	92,970,000.00	21,740,000.00	
13,510.00	- 4,249.00	65,350.00	- 56,780,000.00	93,490,000.00	21,740,000.00	
13,510.00	4,249.00	72,260.00	- 94,470,000.00	92,450,000.00	21,740,000.00	
13,510.00	- 4,249.00	69,700.00	- 69,820,000.00	93,490,000.00	21,740,000.00	
13,510.00	4,249.00	76,620.00	- 107,500,000.00	92,450,000.00	21,740,000.00	
13,510.00	10,620.00	68,800.00	- 138,900,000.00	92,970,000.00	22,090,000.00	
13,510.00	10,620.00	73,160.00	- 152,000,000.00	92,970,000.00	22,090,000.00	
13,510.00	6,370.00	65,350.00	- 120,100,000.00	93,490,000.00	22,090,000.00	
13,510.00	14,870.00	72,260.00	- 157,800,000.00	92,450,000.00	22,090,000.00	
13,510.00	6,370.00	69,700.00	- 133,100,000.00	93,490,000.00	22,090,000.00	
13,510.00	14,870.00	76,620.00	- 170,800,000.00	92,450,000.00	22,090,000.00	
13,510.00	6,370.00	69,700.00	- 133,100,000.00	93,490,000.00	22,090,000.00	
13,510.00	14,870.00	76,620.00	- 170,800,000.00	92,450,000.00	22,090,000.00	
0.00	10,620.00	70,750.00	- 127,000,000.00	- 3,218,000.00	354,700.00	
0.00	10,620.00	75,100.00	- 140,100,000.00	- 3,218,000.00	354,700.00	
0.00	6,370.00	67,290.00	- 108,200,000.00	- 2,694,000.00	354,700.00	
0.00	14,870.00	74,200.00	- 145,900,000.00	- 3,741,000.00	354,700.00	
14,210.00	0.06	70,750.00	- 63,730,000.00	99,260,000.00	24,950,000.00	
14,210.00	- 4,249.00	71,650.00	- 57,930,000.00	99,780,000.00	24,950,000.00	
14,210.00	4,249.00	78,560.00	- 95,630,000.00	98,740,000.00	24,950,000.00	
14,210.00	10,620.00	70,750.00	- 127,000,000.00	99,260,000.00	25,310,000.00	
14,210.00	10,620.00	75,100.00	- 140,100,000.00	99,260,000.00	25,310,000.00	
14,210.00	6,370.00	67,290.00	- 108,200,000.00	99,780,000.00	25,310,000.00	
14,210.00	14,870.00	74,200.00	- 145,900,000.00	98,740,000.00	25,310,000.00	
14,210.00	6,370.00	71,650.00	- 121,200,000.00	99,780,000.00	25,310,000.00	
14,210.00	14,870.00	78,560.00	- 158,900,000.00	98,740,000.00	25,310,000.00	
- 693.00	- 4,249.00	76,690.00	- 79,960,000.00	- 9,727,000.00	- 3,219,000.00	
- 693.00	10,620.00	80,140.00	- 162,100,000.00	- 10,250,000.00	- 2,864,000.00	
- 693.00	6,370.00	72,330.00	- 130,200,000.00	- 9,727,000.00	- 2,864,000.00	
- 693.00	14,870.00	79,240.00	- 167,900,000.00	- 10,770,000.00	- 2,864,000.00	
- 693.00	14,870.00	83,600.00	- 180,900,000.00	- 10,770,000.00	- 2,864,000.00	
13,510.00	4,249.00	79,240.00	- 104,600,000.00	91,700,000.00	21,740,000.00	
13,510.00	10,620.00	75,790.00	- 149,000,000.00	92,230,000.00	22,090,000.00	
13,510.00	10,620.00	80,140.00	- 162,100,000.00	92,230,000.00	22,090,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 116 di 215

Reazioni vincolari - STR A1						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
13,510.00	6,370.00	72,330.00	- 130,200,000.00	92,750,000.00	22,090,000.00	
13,510.00	14,870.00	79,240.00	- 167,900,000.00	91,700,000.00	22,090,000.00	
13,510.00	6,370.00	76,690.00	- 143,200,000.00	92,750,000.00	22,090,000.00	
13,510.00	14,870.00	83,600.00	- 180,900,000.00	91,700,000.00	22,090,000.00	
13,510.00	6,370.00	76,690.00	- 143,200,000.00	92,750,000.00	22,090,000.00	
13,510.00	14,870.00	83,600.00	- 180,900,000.00	91,700,000.00	22,090,000.00	
0.00	0.04	58,780.00	- 62,070,000.00	- 2,475,000.00	28.83	
0.00	- 7,292.00	57,880.00	2,625,000.00	- 2,999,000.00	- 354,600.00	
0.00	- 15,790.00	55,320.00	27,270,000.00	- 1,952,000.00	- 354,600.00	
0.00	- 7,292.00	62,230.00	- 10,420,000.00	- 2,999,000.00	- 354,600.00	
14,210.00	0.06	58,780.00	- 62,070,000.00	100,000,000.00	24,950,000.00	
14,210.00	4,249.00	57,880.00	- 67,870,000.00	99,480,000.00	24,950,000.00	
14,210.00	- 4,249.00	55,320.00	- 43,220,000.00	100,500,000.00	24,950,000.00	
14,210.00	- 11,540.00	54,420.00	21,470,000.00	100,000,000.00	24,600,000.00	
14,210.00	- 11,540.00	58,780.00	8,426,000.00	100,000,000.00	24,600,000.00	
14,210.00	- 15,790.00	50,960.00	40,320,000.00	100,500,000.00	24,600,000.00	
14,210.00	- 7,292.00	57,880.00	2,625,000.00	99,480,000.00	24,600,000.00	
14,210.00	- 15,790.00	55,320.00	27,270,000.00	100,500,000.00	24,600,000.00	
14,210.00	- 7,292.00	62,230.00	- 10,420,000.00	99,480,000.00	24,600,000.00	
- 693.00	- 11,540.00	63,820.00	- 13,600,000.00	- 9,508,000.00	- 3,574,000.00	
- 693.00	- 15,790.00	60,360.00	5,249,000.00	- 8,985,000.00	- 3,574,000.00	
- 693.00	- 7,292.00	67,270.00	- 32,450,000.00	- 10,030,000.00	- 3,574,000.00	
13,510.00	0.07	63,820.00	- 84,100,000.00	92,970,000.00	21,740,000.00	
13,510.00	- 4,249.00	60,360.00	- 65,250,000.00	93,490,000.00	21,740,000.00	
13,510.00	4,249.00	67,270.00	- 102,900,000.00	92,450,000.00	21,740,000.00	
13,510.00	- 11,540.00	59,460.00	- 552,500.00	92,970,000.00	21,380,000.00	
13,510.00	- 11,540.00	63,820.00	- 13,600,000.00	92,970,000.00	21,380,000.00	
13,510.00	- 15,790.00	56,000.00	18,300,000.00	93,490,000.00	21,380,000.00	
13,510.00	- 7,292.00	62,920.00	- 19,400,000.00	92,450,000.00	21,380,000.00	
13,510.00	- 15,790.00	60,360.00	5,249,000.00	93,490,000.00	21,380,000.00	
13,510.00	- 7,292.00	67,270.00	- 32,450,000.00	92,450,000.00	21,380,000.00	
13,510.00	- 15,790.00	60,360.00	5,249,000.00	93,490,000.00	21,380,000.00	
13,510.00	- 7,292.00	67,270.00	- 32,450,000.00	92,450,000.00	21,380,000.00	
0.00	0.04	61,400.00	- 59,160,000.00	- 3,218,000.00	27.47	
0.00	0.05	65,760.00	- 72,200,000.00	- 3,218,000.00	33.49	
0.00	- 4,249.00	62,300.00	- 53,350,000.00	- 2,694,000.00	28.39	
0.00	- 11,540.00	61,400.00	11,340,000.00	- 3,218,000.00	- 354,600.00	
0.00	- 11,540.00	65,760.00	- 1,705,000.00	- 3,218,000.00	- 354,600.00	
0.00	- 15,790.00	57,950.00	30,190,000.00	- 2,694,000.00	- 354,600.00	
0.00	- 15,790.00	62,300.00	17,140,000.00	- 2,694,000.00	- 354,600.00	
0.00	- 7,292.00	69,220.00	- 20,550,000.00	- 3,741,000.00	- 354,600.00	
14,210.00	0.07	65,760.00	- 72,200,000.00	99,260,000.00	24,950,000.00	
14,210.00	4,249.00	64,860.00	- 78,000,000.00	98,740,000.00	24,950,000.00	
14,210.00	- 11,540.00	61,400.00	11,340,000.00	99,260,000.00	24,600,000.00	
14,210.00	- 11,540.00	65,760.00	- 1,705,000.00	99,260,000.00	24,600,000.00	
14,210.00	- 15,790.00	57,950.00	30,190,000.00	99,780,000.00	24,600,000.00	
14,210.00	- 7,292.00	64,860.00	- 7,507,000.00	98,740,000.00	24,600,000.00	
14,210.00	- 15,790.00	62,300.00	17,140,000.00	99,780,000.00	24,600,000.00	
14,210.00	- 7,292.00	69,220.00	- 20,550,000.00	98,740,000.00	24,600,000.00	
- 693.00	- 11,540.00	66,440.00	- 10,680,000.00	- 10,250,000.00	- 3,574,000.00	
- 693.00	- 11,540.00	70,800.00	- 23,730,000.00	- 10,250,000.00	- 3,574,000.00	
- 693.00	- 15,790.00	62,990.00	8,164,000.00	- 9,727,000.00	- 3,574,000.00	
- 693.00	- 7,292.00	74,260.00	- 42,580,000.00	- 10,770,000.00	- 3,574,000.00	
13,510.00	0.08	70,800.00	- 94,230,000.00	92,230,000.00	21,740,000.00	
13,510.00	4,249.00	69,900.00	- 100,000,000.00	91,700,000.00	21,740,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 117 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
13,510.00	-	4,249.00	67,340.00	-	75,380,000.00	92,750,000.00	21,740,000.00			
13,510.00	-	4,249.00	74,260.00	-	113,100,000.00	91,700,000.00	21,740,000.00			
13,510.00	-	11,540.00	66,440.00	-	10,680,000.00	92,230,000.00	21,380,000.00			
13,510.00	-	11,540.00	70,800.00	-	23,730,000.00	92,230,000.00	21,380,000.00			
13,510.00	-	15,790.00	62,990.00	-	8,164,000.00	92,750,000.00	21,380,000.00			
13,510.00	-	7,292.00	69,900.00	-	29,530,000.00	91,700,000.00	21,380,000.00			
13,510.00	-	15,790.00	67,340.00	-	4,883,000.00	92,750,000.00	21,380,000.00			
13,510.00	-	7,292.00	74,260.00	-	42,580,000.00	91,700,000.00	21,380,000.00			
13,510.00	-	15,790.00	67,340.00	-	4,883,000.00	92,750,000.00	21,380,000.00			
13,510.00	-	7,292.00	74,260.00	-	42,580,000.00	91,700,000.00	21,380,000.00			
0.00	-	4,249.00	67,220.00	-	72,450,000.00	-	2,999,000.00	30.03		
0.00	-	11,540.00	68,120.00	-	3,851,000.00	-	2,475,000.00	-	354,600.00	
0.00	-	15,790.00	64,660.00	-	22,700,000.00	-	1,952,000.00	-	354,600.00	
0.00	-	7,292.00	71,580.00	-	15,000,000.00	-	2,999,000.00	-	354,600.00	
14,210.00	-	4,249.00	64,660.00	-	47,800,000.00	100,500,000.00	24,950,000.00			
14,210.00	-	11,540.00	63,760.00	-	16,900,000.00	100,000,000.00	24,600,000.00			
14,210.00	-	11,540.00	68,120.00	-	3,851,000.00	100,000,000.00	24,600,000.00			
14,210.00	-	15,790.00	60,310.00	-	35,740,000.00	100,500,000.00	24,600,000.00			
14,210.00	-	7,292.00	67,220.00	-	1,951,000.00	99,480,000.00	24,600,000.00			
14,210.00	-	15,790.00	64,660.00	-	22,700,000.00	100,500,000.00	24,600,000.00			
14,210.00	-	7,292.00	71,580.00	-	15,000,000.00	99,480,000.00	24,600,000.00			
-	693.00	0.05	68,800.00	-	75,620,000.00	-	9,508,000.00	-	3,219,000.00	
-	693.00	-	11,540.00	-	18,170,000.00	-	9,508,000.00	-	3,574,000.00	
-	693.00	-	7,292.00	-	23,980,000.00	-	10,030,000.00	-	3,574,000.00	
-	693.00	-	15,790.00	-	69,700.00	673,500.00	-	8,985,000.00	-	3,574,000.00
-	693.00	-	7,292.00	-	76,620.00	37,020,000.00	-	10,030,000.00	-	3,574,000.00
13,510.00	-	0.08	73,160.00	-	88,670,000.00	92,970,000.00	21,740,000.00			
13,510.00	-	11,540.00	68,800.00	-	5,128,000.00	92,970,000.00	21,380,000.00			
13,510.00	-	11,540.00	73,160.00	-	18,170,000.00	92,970,000.00	21,380,000.00			
13,510.00	-	15,790.00	65,350.00	-	13,720,000.00	93,490,000.00	21,380,000.00			
13,510.00	-	7,292.00	72,260.00	-	23,980,000.00	92,450,000.00	21,380,000.00			
13,510.00	-	15,790.00	69,700.00	-	673,400.00	93,490,000.00	21,380,000.00			
13,510.00	-	7,292.00	76,620.00	-	37,020,000.00	92,450,000.00	21,380,000.00			
13,510.00	-	15,790.00	69,700.00	-	673,400.00	93,490,000.00	21,380,000.00			
13,510.00	-	7,292.00	76,620.00	-	37,020,000.00	92,450,000.00	21,380,000.00			
0.00	-	0.06	75,100.00	-	76,780,000.00	-	3,218,000.00	35.60		
0.00	-	4,249.00	67,290.00	-	44,880,000.00	-	2,694,000.00	24.48		
0.00	-	4,249.00	74,200.00	-	82,580,000.00	-	3,741,000.00	34.68		
0.00	-	11,540.00	75,100.00	-	6,281,000.00	-	3,218,000.00	-	354,600.00	
0.00	-	7,292.00	78,560.00	-	25,130,000.00	-	3,741,000.00	-	354,600.00	
14,210.00	-	0.07	75,100.00	-	76,780,000.00	99,260,000.00	24,950,000.00			
14,210.00	-	4,249.00	67,290.00	-	44,880,000.00	99,780,000.00	24,950,000.00			
14,210.00	-	4,249.00	74,200.00	-	82,580,000.00	98,740,000.00	24,950,000.00			
14,210.00	-	11,540.00	70,750.00	-	6,765,000.00	99,260,000.00	24,600,000.00			
14,210.00	-	11,540.00	75,100.00	-	6,281,000.00	99,260,000.00	24,600,000.00			
14,210.00	-	15,790.00	67,290.00	-	25,610,000.00	99,780,000.00	24,600,000.00			
14,210.00	-	7,292.00	74,200.00	-	12,080,000.00	98,740,000.00	24,600,000.00			
14,210.00	-	15,790.00	71,650.00	-	12,570,000.00	99,780,000.00	24,600,000.00			
14,210.00	-	7,292.00	78,560.00	-	25,130,000.00	98,740,000.00	24,600,000.00			
-	693.00	0.07	80,140.00	-	98,800,000.00	-	10,250,000.00	-	3,219,000.00	
-	693.00	-	4,249.00	-	117,700,000.00	-	10,770,000.00	-	3,219,000.00	
-	693.00	-	11,540.00	-	15,260,000.00	-	10,250,000.00	-	3,574,000.00	
-	693.00	-	11,540.00	-	28,310,000.00	-	10,250,000.00	-	3,574,000.00	
13,510.00	-	0.07	75,790.00	-	85,760,000.00	92,230,000.00	21,740,000.00			
13,510.00	-	0.08	80,140.00	-	98,800,000.00	92,230,000.00	21,740,000.00			

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 118 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
13,510.00	-	4,249.00	72,330.00	-	66,910,000.00	92,750,000.00	21,740,000.00			
13,510.00	-	4,249.00	76,690.00	-	79,960,000.00	92,750,000.00	21,740,000.00			
13,510.00		4,249.00	83,600.00	-	117,700,000.00	91,700,000.00	21,740,000.00			
13,510.00	-	11,540.00	75,790.00	-	15,260,000.00	92,230,000.00	21,380,000.00			
13,510.00	-	11,540.00	80,140.00	-	28,310,000.00	92,230,000.00	21,380,000.00			
13,510.00	-	15,790.00	72,330.00		3,588,000.00	92,750,000.00	21,380,000.00			
13,510.00	-	7,292.00	79,240.00	-	34,110,000.00	91,700,000.00	21,380,000.00			
13,510.00	-	15,790.00	76,690.00	-	9,458,000.00	92,750,000.00	21,380,000.00			
13,510.00	-	7,292.00	83,600.00	-	47,150,000.00	91,700,000.00	21,380,000.00			
13,510.00	-	15,790.00	76,690.00	-	9,458,000.00	92,750,000.00	21,380,000.00			
13,510.00	-	7,292.00	83,600.00	-	47,150,000.00	91,700,000.00	21,380,000.00			
0.00	-	4,249.00	50,960.00	-	30,180,000.00	-	1,952,000.00	17.71		
0.00		4,249.00	57,880.00	-	67,870,000.00	-	2,999,000.00	27.91		
0.00	-	4,249.00	55,320.00	-	43,220,000.00	-	1,952,000.00	23.73		
0.00		4,249.00	62,230.00	-	80,920,000.00	-	2,999,000.00	33.94		
0.00		10,620.00	58,780.00	-	125,400,000.00	-	2,475,000.00	354,700.00		
0.00		6,370.00	50,960.00	-	93,460,000.00	-	1,952,000.00	354,700.00		
0.00		14,870.00	57,880.00	-	131,200,000.00	-	2,999,000.00	354,700.00		
0.00		14,870.00	62,230.00	-	144,200,000.00	-	2,999,000.00	354,700.00		
-	14,210.00	0.02	54,420.00	-	49,020,000.00	-	105,000,000.00	-	24,950,000.00	
-	14,210.00	-	4,249.00	50,960.00	-	30,180,000.00	-	104,400,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00	55,320.00	-	43,220,000.00	-	104,400,000.00	-	24,950,000.00
-	14,210.00		4,249.00	62,230.00	-	80,920,000.00	-	105,500,000.00	-	24,950,000.00
-	14,210.00		10,620.00	54,420.00	-	112,300,000.00	-	105,000,000.00	-	24,600,000.00
-	14,210.00		10,620.00	58,780.00	-	125,400,000.00	-	105,000,000.00	-	24,600,000.00
-	14,210.00		6,370.00	50,960.00	-	93,460,000.00	-	104,400,000.00	-	24,600,000.00
-	14,210.00		14,870.00	57,880.00	-	131,200,000.00	-	105,500,000.00	-	24,600,000.00
-	14,210.00		6,370.00	55,320.00	-	106,500,000.00	-	104,400,000.00	-	24,600,000.00
-	14,210.00		14,870.00	62,230.00	-	144,200,000.00	-	105,500,000.00	-	24,600,000.00
-	693.00		6,370.00	56,000.00	-	115,500,000.00	-	8,985,000.00	-	2,864,000.00
-	14,900.00	-	4,249.00	60,360.00	-	65,250,000.00	-	111,500,000.00	-	28,170,000.00
-	14,900.00		4,249.00	67,270.00	-	102,900,000.00	-	112,500,000.00	-	28,170,000.00
-	14,900.00		10,620.00	59,460.00	-	134,300,000.00	-	112,000,000.00	-	27,820,000.00
-	14,900.00		10,620.00	63,820.00	-	147,400,000.00	-	112,000,000.00	-	27,820,000.00
-	14,900.00		6,370.00	56,000.00	-	115,500,000.00	-	111,500,000.00	-	27,820,000.00
-	14,900.00		14,870.00	62,920.00	-	153,200,000.00	-	112,500,000.00	-	27,820,000.00
-	14,900.00		6,370.00	60,360.00	-	128,500,000.00	-	111,500,000.00	-	27,820,000.00
-	14,900.00		14,870.00	67,270.00	-	166,200,000.00	-	112,500,000.00	-	27,820,000.00
-	14,900.00		6,370.00	60,360.00	-	128,500,000.00	-	111,500,000.00	-	27,820,000.00
-	14,900.00		14,870.00	67,270.00	-	166,200,000.00	-	112,500,000.00	-	27,820,000.00
0.00		10,620.00	61,400.00	-	122,400,000.00	-	3,218,000.00	354,700.00		
0.00		6,370.00	57,950.00	-	103,600,000.00	-	2,694,000.00	354,700.00		
0.00		14,870.00	64,860.00	-	141,300,000.00	-	3,741,000.00	354,700.00		
0.00		6,370.00	62,300.00	-	116,600,000.00	-	2,694,000.00	354,700.00		
0.00		14,870.00	69,220.00	-	154,300,000.00	-	3,741,000.00	354,700.00		
-	14,210.00	0.04	65,760.00	-	72,200,000.00	-	105,700,000.00	-	24,950,000.00	
-	14,210.00	-	4,249.00	57,950.00	-	40,310,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00	64,860.00	-	78,000,000.00	-	106,200,000.00	-	24,950,000.00
-	14,210.00		10,620.00	61,400.00	-	122,400,000.00	-	105,700,000.00	-	24,600,000.00
-	14,210.00		10,620.00	65,760.00	-	135,500,000.00	-	105,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00	57,950.00	-	103,600,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00	64,860.00	-	141,300,000.00	-	106,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00	62,300.00	-	116,600,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00	69,220.00	-	154,300,000.00	-	106,200,000.00	-	24,600,000.00
-	693.00		6,370.00	62,990.00	-	125,600,000.00	-	9,727,000.00	-	2,864,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17    Lotto 10    Codifica Documento EI2CLOC000006    Rev. A    Foglio 119 di 215

Reazioni vincolari - STR A1											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	14,900.00		0.04		66,440.00	-	81,180,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00		0.05		70,800.00	-	94,230,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		62,990.00	-	62,330,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		69,900.00	-	100,000,000.00	-	113,300,000.00	-	28,170,000.00
-	14,900.00		4,249.00		74,260.00	-	113,100,000.00	-	113,300,000.00	-	28,170,000.00
-	14,900.00		10,620.00		66,440.00	-	144,500,000.00	-	112,700,000.00	-	27,820,000.00
-	14,900.00		10,620.00		70,800.00	-	157,500,000.00	-	112,700,000.00	-	27,820,000.00
-	14,900.00		6,370.00		62,990.00	-	125,600,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		69,900.00	-	163,300,000.00	-	113,300,000.00	-	27,820,000.00
-	14,900.00		6,370.00		67,340.00	-	138,700,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		74,260.00	-	176,400,000.00	-	113,300,000.00	-	27,820,000.00
-	14,900.00		6,370.00		67,340.00	-	138,700,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		74,260.00	-	176,400,000.00	-	113,300,000.00	-	27,820,000.00
	0.00		0.04		63,760.00	-	53,600,000.00	-	2,475,000.00		24.92
	0.00		0.05		68,120.00	-	66,650,000.00	-	2,475,000.00		30.95
	0.00	-	4,249.00		60,310.00	-	34,750,000.00	-	1,952,000.00		19.82
	0.00	-	4,249.00		64,660.00	-	47,800,000.00	-	1,952,000.00		25.84
	0.00		4,249.00		71,580.00	-	85,490,000.00	-	2,999,000.00		36.05
	0.00		10,620.00		63,760.00	-	116,900,000.00	-	2,475,000.00		354,700.00
	0.00		14,870.00		71,580.00	-	148,800,000.00	-	2,999,000.00		354,700.00
-	14,210.00		0.03		68,120.00	-	66,650,000.00	-	105,000,000.00	-	24,950,000.00
-	14,210.00		4,249.00		67,220.00	-	72,450,000.00	-	105,500,000.00	-	24,950,000.00
-	14,210.00		4,249.00		71,580.00	-	85,490,000.00	-	105,500,000.00	-	24,950,000.00
-	14,210.00		10,620.00		63,760.00	-	116,900,000.00	-	105,000,000.00	-	24,600,000.00
-	14,210.00		10,620.00		68,120.00	-	129,900,000.00	-	105,000,000.00	-	24,600,000.00
-	14,210.00		6,370.00		60,310.00	-	98,030,000.00	-	104,400,000.00	-	24,600,000.00
-	14,210.00		14,870.00		67,220.00	-	135,700,000.00	-	105,500,000.00	-	24,600,000.00
-	14,210.00		6,370.00		64,660.00	-	111,100,000.00	-	104,400,000.00	-	24,600,000.00
-	14,210.00		14,870.00		71,580.00	-	148,800,000.00	-	105,500,000.00	-	24,600,000.00
-	693.00	-	4,249.00		65,350.00	-	56,780,000.00	-	8,985,000.00	-	3,219,000.00
-	693.00		4,249.00		76,620.00	-	107,500,000.00	-	10,030,000.00	-	3,219,000.00
-	693.00		10,620.00		68,800.00	-	138,900,000.00	-	9,508,000.00	-	2,864,000.00
-	693.00		10,620.00		73,160.00	-	152,000,000.00	-	9,508,000.00	-	2,864,000.00
-	693.00		14,870.00		76,620.00	-	170,800,000.00	-	10,030,000.00	-	2,864,000.00
-	14,900.00		0.04		68,800.00	-	75,620,000.00	-	112,000,000.00	-	28,170,000.00
-	14,900.00		4,249.00		76,620.00	-	107,500,000.00	-	112,500,000.00	-	28,170,000.00
-	14,900.00		10,620.00		68,800.00	-	138,900,000.00	-	112,000,000.00	-	27,820,000.00
-	14,900.00		10,620.00		73,160.00	-	152,000,000.00	-	112,000,000.00	-	27,820,000.00
-	14,900.00		6,370.00		65,350.00	-	120,100,000.00	-	111,500,000.00	-	27,820,000.00
-	14,900.00		14,870.00		72,260.00	-	157,800,000.00	-	112,500,000.00	-	27,820,000.00
-	14,900.00		6,370.00		69,700.00	-	133,100,000.00	-	111,500,000.00	-	27,820,000.00
-	14,900.00		14,870.00		76,620.00	-	170,800,000.00	-	112,500,000.00	-	27,820,000.00
-	14,900.00		6,370.00		69,700.00	-	133,100,000.00	-	111,500,000.00	-	27,820,000.00
-	14,900.00		14,870.00		76,620.00	-	170,800,000.00	-	112,500,000.00	-	27,820,000.00
	0.00		6,370.00		71,650.00	-	121,200,000.00	-	2,694,000.00		354,700.00
	0.00		14,870.00		78,560.00	-	158,900,000.00	-	3,741,000.00		354,700.00
-	14,210.00	-	4,249.00		71,650.00	-	57,930,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		78,560.00	-	95,630,000.00	-	106,200,000.00	-	24,950,000.00
-	14,210.00		10,620.00		70,750.00	-	127,000,000.00	-	105,700,000.00	-	24,600,000.00
-	14,210.00		10,620.00		75,100.00	-	140,100,000.00	-	105,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00		67,290.00	-	108,200,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		74,200.00	-	145,900,000.00	-	106,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		71,650.00	-	121,200,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		78,560.00	-	158,900,000.00	-	106,200,000.00	-	24,600,000.00
-	693.00	-	4,249.00		72,330.00	-	66,910,000.00	-	9,727,000.00	-	3,219,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>	<b>Progetto</b> IN17	<b>Lotto</b> 10	<b>Codifica Documento</b> EI2CLOC000006	<b>Rev.</b> A	<b>Foglio</b> 120 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	693.00		4,249.00		79,240.00	- 104,600,000.00	-	10,770,000.00	-	3,219,000.00
-	693.00		10,620.00		75,790.00	- 149,000,000.00	-	10,250,000.00	-	2,864,000.00
-	693.00		6,370.00		76,690.00	- 143,200,000.00	-	9,727,000.00	-	2,864,000.00
-	14,900.00		0.06		80,140.00	- 98,800,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00		4,249.00		79,240.00	- 104,600,000.00	-	113,300,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		76,690.00	- 79,950,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		10,620.00		75,790.00	- 149,000,000.00	-	112,700,000.00	-	27,820,000.00
-	14,900.00		10,620.00		80,140.00	- 162,100,000.00	-	112,700,000.00	-	27,820,000.00
-	14,900.00		6,370.00		72,330.00	- 130,200,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		79,240.00	- 167,900,000.00	-	113,300,000.00	-	27,820,000.00
-	14,900.00		6,370.00		76,690.00	- 143,200,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		83,600.00	- 180,900,000.00	-	113,300,000.00	-	27,820,000.00
-	14,900.00		6,370.00		76,690.00	- 143,200,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		83,600.00	- 180,900,000.00	-	113,300,000.00	-	27,820,000.00
	0.00		0.04		54,420.00	- 49,020,000.00	-	2,475,000.00		22.81
	0.00	-	11,540.00		54,420.00	21,470,000.00	-	2,475,000.00	-	354,600.00
	0.00	-	11,540.00		58,780.00	8,426,000.00	-	2,475,000.00	-	354,600.00
	0.00	-	15,790.00		50,960.00	40,320,000.00	-	1,952,000.00	-	354,600.00
-	14,210.00		0.03		58,780.00	- 62,070,000.00	-	105,000,000.00	-	24,950,000.00
-	14,210.00		4,249.00		57,880.00	- 67,870,000.00	-	105,500,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		54,420.00	21,470,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00		58,780.00	8,426,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		50,960.00	40,320,000.00	-	104,400,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		57,880.00	2,625,000.00	-	105,500,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		55,320.00	27,270,000.00	-	104,400,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		62,230.00	- 10,420,000.00	-	105,500,000.00	-	25,310,000.00
-	693.00	-	4,249.00		60,360.00	- 65,250,000.00	-	8,985,000.00	-	3,219,000.00
-	693.00		4,249.00		67,270.00	- 102,900,000.00	-	10,030,000.00	-	3,219,000.00
-	693.00	-	11,540.00		59,460.00	- 552,300.00	-	9,508,000.00	-	3,574,000.00
-	693.00	-	15,790.00		56,000.00	18,300,000.00	-	8,985,000.00	-	3,574,000.00
-	693.00	-	7,292.00		62,920.00	- 19,400,000.00	-	10,030,000.00	-	3,574,000.00
-	14,900.00		0.04		59,460.00	- 71,050,000.00	-	112,000,000.00	-	28,170,000.00
-	14,900.00		0.05		63,820.00	- 84,100,000.00	-	112,000,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		56,000.00	- 52,200,000.00	-	111,500,000.00	-	28,170,000.00
-	14,900.00		4,249.00		62,920.00	- 89,900,000.00	-	112,500,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00		59,460.00	- 552,200.00	-	112,000,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00		63,820.00	- 13,600,000.00	-	112,000,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		56,000.00	18,300,000.00	-	111,500,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		62,920.00	- 19,400,000.00	-	112,500,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		60,360.00	5,249,000.00	-	111,500,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		67,270.00	- 32,450,000.00	-	112,500,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		60,360.00	5,249,000.00	-	111,500,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		67,270.00	- 32,450,000.00	-	112,500,000.00	-	28,530,000.00
	0.00		4,249.00		64,860.00	- 78,000,000.00	-	3,741,000.00		32.57
	0.00	-	7,292.00		64,860.00	- 7,507,000.00	-	3,741,000.00	-	354,600.00
-	14,210.00		0.03		61,400.00	- 59,160,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		62,300.00	- 53,350,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		69,220.00	- 91,050,000.00	-	106,200,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		61,400.00	11,340,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00		65,760.00	- 1,705,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		57,950.00	30,190,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		64,860.00	- 7,507,000.00	-	106,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		62,300.00	17,140,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		69,220.00	- 20,550,000.00	-	106,200,000.00	-	25,310,000.00
-	693.00		0.06		66,440.00	- 81,180,000.00	-	10,250,000.00	-	3,219,000.00



<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 121 di 215

Reazioni vincolari - STR A1											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	693.00		0.07		70,800.00	-	94,230,000.00	-	10,250,000.00	-	3,219,000.00
-	693.00		4,249.00		69,900.00	-	100,000,000.00	-	10,770,000.00	-	3,219,000.00
-	693.00	-	4,249.00		67,340.00	-	75,380,000.00	-	9,727,000.00	-	3,219,000.00
-	693.00		4,249.00		74,260.00	-	113,100,000.00	-	10,770,000.00	-	3,219,000.00
-	693.00	-	7,292.00		69,900.00	-	29,530,000.00	-	10,770,000.00	-	3,574,000.00
-	693.00	-	15,790.00		67,340.00	-	4,882,000.00	-	9,727,000.00	-	3,574,000.00
-	14,900.00	-	4,249.00		67,340.00	-	75,380,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00		66,440.00	-	10,680,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00		70,800.00	-	23,730,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		62,990.00	-	8,164,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		69,900.00	-	29,530,000.00	-	113,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		67,340.00	-	4,882,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		74,260.00	-	42,580,000.00	-	113,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		67,340.00	-	4,882,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		74,260.00	-	42,580,000.00	-	113,300,000.00	-	28,530,000.00
	0.00	-	11,540.00		63,760.00		16,900,000.00	-	2,475,000.00	-	354,600.00
	0.00	-	15,790.00		60,310.00		35,740,000.00	-	1,952,000.00	-	354,600.00
	0.00	-	7,292.00		67,220.00	-	1,951,000.00	-	2,999,000.00	-	354,600.00
-	14,210.00		0.03		63,760.00	-	53,600,000.00	-	105,000,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		60,310.00	-	34,750,000.00	-	104,400,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		64,660.00	-	47,800,000.00	-	104,400,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		63,760.00		16,900,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00		68,120.00		3,851,000.00	-	105,000,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		60,310.00		35,740,000.00	-	104,400,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		67,220.00	-	1,951,000.00	-	105,500,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		64,660.00		22,700,000.00	-	104,400,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		71,580.00	-	15,000,000.00	-	105,500,000.00	-	25,310,000.00
-	693.00	-	11,540.00		68,800.00	-	5,128,000.00	-	9,508,000.00	-	3,574,000.00
-	693.00	-	15,790.00		65,350.00		13,720,000.00	-	8,985,000.00	-	3,574,000.00
-	14,900.00		0.05		73,160.00	-	88,670,000.00	-	112,000,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		65,350.00	-	56,780,000.00	-	111,500,000.00	-	28,170,000.00
-	14,900.00		4,249.00		72,260.00	-	94,470,000.00	-	112,500,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		69,700.00	-	69,820,000.00	-	111,500,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00		68,800.00	-	5,128,000.00	-	112,000,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00		73,160.00	-	18,170,000.00	-	112,000,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		65,350.00		13,720,000.00	-	111,500,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		72,260.00	-	23,980,000.00	-	112,500,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		69,700.00		673,600.00	-	111,500,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		76,620.00	-	37,020,000.00	-	112,500,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		69,700.00		673,600.00	-	111,500,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		76,620.00	-	37,020,000.00	-	112,500,000.00	-	28,530,000.00
	0.00		0.05		70,750.00	-	63,730,000.00	-	3,218,000.00		29.58
	0.00	-	4,249.00		71,650.00	-	57,930,000.00	-	2,694,000.00		30.50
	0.00		4,249.00		78,560.00	-	95,630,000.00	-	3,741,000.00		40.71
	0.00	-	11,540.00		70,750.00		6,765,000.00	-	3,218,000.00	-	354,600.00
	0.00	-	15,790.00		67,290.00		25,610,000.00	-	2,694,000.00	-	354,600.00
	0.00	-	7,292.00		74,200.00	-	12,080,000.00	-	3,741,000.00	-	354,600.00
	0.00	-	15,790.00		71,650.00		12,570,000.00	-	2,694,000.00	-	354,600.00
-	14,210.00		0.03		70,750.00	-	63,730,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00		0.04		75,100.00	-	76,780,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		67,290.00	-	44,880,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		74,200.00	-	82,580,000.00	-	106,200,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		70,750.00		6,765,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00		75,100.00	-	6,281,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		67,290.00		25,610,000.00	-	105,200,000.00	-	25,310,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 122 di 215

Reazioni vincolari - STR A1										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,210.00	-	7,292.00	74,200.00	-	12,080,000.00	-	106,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	71,650.00	-	12,570,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	78,560.00	-	25,130,000.00	-	106,200,000.00	-	25,310,000.00
-	693.00	-	0.06	75,790.00	-	85,760,000.00	-	10,250,000.00	-	3,219,000.00
-	693.00	-	15,790.00	72,330.00	-	3,588,000.00	-	9,727,000.00	-	3,574,000.00
-	693.00	-	7,292.00	79,240.00	-	34,110,000.00	-	10,770,000.00	-	3,574,000.00
-	693.00	-	15,790.00	76,690.00	-	9,458,000.00	-	9,727,000.00	-	3,574,000.00
-	693.00	-	7,292.00	83,600.00	-	47,150,000.00	-	10,770,000.00	-	3,574,000.00
-	14,900.00	-	0.05	75,790.00	-	85,760,000.00	-	112,700,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	72,330.00	-	66,910,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	83,600.00	-	117,700,000.00	-	113,300,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	75,790.00	-	15,260,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	80,140.00	-	28,310,000.00	-	112,700,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	72,330.00	-	3,588,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	79,240.00	-	34,110,000.00	-	113,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	76,690.00	-	9,458,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	83,600.00	-	47,150,000.00	-	113,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	76,690.00	-	9,458,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	83,600.00	-	47,150,000.00	-	113,300,000.00	-	28,530,000.00
-	246.30	-	82.15	53,130.00	-	48,870,000.00	-	2,697,000.00	-	36,490.00
-	246.30	-	82.22	55,710.00	-	49,180,000.00	-	2,253,000.00	-	36,540.00
-	153.00	-	8,408.00	51,620.00	-	32,770,000.00	-	1,458,000.00	-	100,900.00
-	153.00	-	8,408.00	57,220.00	-	130,800,000.00	-	3,492,000.00	-	101,000.00
-	93.30	-	8,490.00	50,330.00	-	32,930,000.00	-	1,680,000.00	-	137,500.00
-	399.30	-	8,326.00	52,910.00	-	32,620,000.00	-	1,236,000.00	-	64,420.00
-	399.20	-	8,326.00	55,930.00	-	130,700,000.00	-	3,714,000.00	-	64,470.00
-	93.31	-	8,490.00	58,510.00	-	131,000,000.00	-	3,270,000.00	-	137,500.00
-	20,330.00	-	441.90	54,910.00	-	45,980,000.00	-	159,500,000.00	-	3,300,000.00
-	20,330.00	-	442.00	53,930.00	-	52,070,000.00	-	154,600,000.00	-	3,300,000.00
-	20,580.00	-	524.10	53,620.00	-	45,820,000.00	-	159,700,000.00	-	3,264,000.00
-	20,090.00	-	359.70	56,190.00	-	46,130,000.00	-	159,300,000.00	-	3,337,000.00
-	20,090.00	-	359.80	52,650.00	-	51,920,000.00	-	154,300,000.00	-	3,337,000.00
-	20,580.00	-	524.10	55,220.00	-	52,230,000.00	-	154,800,000.00	-	3,264,000.00
-	20,180.00	-	8,850.00	52,100.00	-	35,820,000.00	-	158,500,000.00	-	3,199,000.00
-	20,480.00	-	7,966.00	57,710.00	-	127,800,000.00	-	160,500,000.00	-	3,401,000.00
-	20,480.00	-	7,966.00	51,130.00	-	29,730,000.00	-	155,600,000.00	-	3,401,000.00
-	20,180.00	-	8,850.00	56,740.00	-	133,900,000.00	-	153,500,000.00	-	3,199,000.00
-	20,420.00	-	8,932.00	50,820.00	-	35,970,000.00	-	158,700,000.00	-	3,163,000.00
-	19,930.00	-	8,768.00	53,390.00	-	35,670,000.00	-	158,300,000.00	-	3,236,000.00
-	20,730.00	-	7,884.00	56,420.00	-	127,600,000.00	-	160,700,000.00	-	3,365,000.00
-	20,240.00	-	8,048.00	59,000.00	-	127,900,000.00	-	160,300,000.00	-	3,438,000.00
-	20,240.00	-	8,048.00	49,840.00	-	29,880,000.00	-	155,400,000.00	-	3,438,000.00
-	20,730.00	-	7,884.00	52,420.00	-	29,570,000.00	-	155,800,000.00	-	3,365,000.00
-	19,930.00	-	8,768.00	55,450.00	-	133,700,000.00	-	153,300,000.00	-	3,236,000.00
-	20,420.00	-	8,932.00	58,020.00	-	134,000,000.00	-	153,800,000.00	-	3,163,000.00
-	198.00	-	0.04	55,860.00	-	55,320,000.00	-	4,485,000.00	-	919,700.00
-	444.30	-	82.15	54,570.00	-	55,160,000.00	-	4,707,000.00	-	956,200.00
-	48.28	-	82.23	57,150.00	-	55,470,000.00	-	4,262,000.00	-	883,200.00
-	45.02	-	8,408.00	53,060.00	-	26,480,000.00	-	3,468,000.00	-	1,021,000.00
-	351.00	-	8,408.00	58,660.00	-	137,100,000.00	-	5,501,000.00	-	818,700.00
-	291.30	-	8,490.00	51,770.00	-	26,630,000.00	-	3,690,000.00	-	1,057,000.00
-	201.30	-	8,326.00	54,350.00	-	26,330,000.00	-	3,246,000.00	-	984,100.00
-	597.20	-	8,326.00	57,370.00	-	137,000,000.00	-	5,724,000.00	-	855,200.00
-	104.70	-	8,490.00	59,950.00	-	137,300,000.00	-	5,279,000.00	-	782,200.00
-	20,530.00	-	441.90	56,350.00	-	52,270,000.00	-	161,500,000.00	-	2,381,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 123 di 215

<b>Reazioni vincolari - STR A1</b>						
<b>Rx</b>	<b>Ry</b>	<b>N</b>	<b>Mx</b>	<b>My</b>	<b>Mz</b>	
<b>N</b>	<b>N</b>	<b>N</b>	<b>Nmm</b>	<b>Nmm</b>	<b>Nmm</b>	
20,130.00	442.00	55,370.00	- 58,360,000.00	152,600,000.00	- 4,220,000.00	
- 20,780.00	524.10	55,060.00	- 52,120,000.00	- 161,700,000.00	2,344,000.00	
- 20,280.00	359.70	57,630.00	- 52,420,000.00	- 161,300,000.00	2,417,000.00	
19,890.00	359.80	54,090.00	- 58,210,000.00	152,300,000.00	- 4,257,000.00	
20,380.00	524.10	56,660.00	- 58,520,000.00	152,800,000.00	- 4,183,000.00	
- 20,380.00	8,850.00	53,540.00	29,530,000.00	- 160,500,000.00	2,280,000.00	
- 20,680.00	7,966.00	59,150.00	- 134,100,000.00	- 162,500,000.00	2,482,000.00	
20,290.00	7,966.00	52,570.00	23,430,000.00	153,600,000.00	- 4,321,000.00	
19,980.00	8,850.00	58,180.00	- 140,200,000.00	151,500,000.00	- 4,119,000.00	
- 20,620.00	8,932.00	52,260.00	29,680,000.00	- 160,700,000.00	2,243,000.00	
- 20,130.00	8,768.00	54,830.00	29,370,000.00	- 160,300,000.00	2,316,000.00	
- 20,930.00	7,884.00	57,860.00	- 133,900,000.00	- 162,800,000.00	2,445,000.00	
- 20,440.00	8,048.00	60,440.00	- 134,200,000.00	- 162,300,000.00	2,518,000.00	
20,040.00	8,048.00	51,280.00	23,590,000.00	153,300,000.00	- 4,357,000.00	
20,530.00	7,884.00	53,860.00	23,280,000.00	153,800,000.00	- 4,284,000.00	
19,730.00	8,768.00	56,890.00	- 140,000,000.00	151,300,000.00	- 4,156,000.00	
20,230.00	8,932.00	59,460.00	- 140,300,000.00	151,800,000.00	- 4,083,000.00	
509.90	28,030.00	45,080.00	223,600,000.00	914,300.00	- 336,500.00	
- 509.90	28,030.00	63,760.00	- 321,700,000.00	- 5,864,000.00	336,600.00	
263.60	28,110.00	43,790.00	223,800,000.00	692,100.00	- 373,000.00	
756.20	27,940.00	46,370.00	223,500,000.00	1,137,000.00	- 300,000.00	
- 756.20	27,940.00	62,470.00	- 321,500,000.00	- 6,087,000.00	300,000.00	
- 263.60	28,110.00	65,050.00	- 321,800,000.00	- 5,642,000.00	373,100.00	
- 6,099.00	132.50	54,570.00	- 48,110,000.00	- 49,590,000.00	990,100.00	
6,099.00	132.60	54,270.00	- 49,940,000.00	44,640,000.00	- 990,100.00	
- 6,346.00	214.70	53,280.00	- 47,960,000.00	- 49,810,000.00	953,600.00	
- 5,853.00	50.35	55,850.00	- 48,260,000.00	- 49,360,000.00	1,027,000.00	
5,853.00	50.42	52,990.00	- 49,780,000.00	44,410,000.00	- 1,027,000.00	
6,346.00	214.80	55,560.00	- 50,090,000.00	44,860,000.00	- 953,600.00	
- 5,590.00	28,160.00	45,230.00	224,500,000.00	- 46,200,000.00	653,600.00	
- 6,609.00	27,890.00	63,910.00	- 320,800,000.00	- 52,980,000.00	1,327,000.00	
6,609.00	27,890.00	44,930.00	222,700,000.00	48,020,000.00	- 1,327,000.00	
5,590.00	28,160.00	63,620.00	- 322,600,000.00	41,250,000.00	- 653,500.00	
- 5,836.00	28,240.00	43,940.00	224,700,000.00	- 46,420,000.00	617,100.00	
- 5,343.00	28,080.00	46,510.00	224,400,000.00	- 45,970,000.00	690,100.00	
- 6,856.00	27,810.00	62,620.00	- 320,600,000.00	- 53,200,000.00	1,290,000.00	
- 6,363.00	27,980.00	65,200.00	- 320,900,000.00	- 52,750,000.00	1,363,000.00	
6,363.00	27,980.00	43,650.00	222,900,000.00	47,800,000.00	- 1,363,000.00	
6,856.00	27,810.00	46,220.00	222,600,000.00	48,250,000.00	- 1,290,000.00	
5,343.00	28,080.00	62,330.00	- 322,400,000.00	41,020,000.00	- 690,000.00	
5,836.00	28,240.00	64,900.00	- 322,800,000.00	41,470,000.00	- 617,000.00	
311.90	28,030.00	46,520.00	217,300,000.00	- 1,095,000.00	- 1,256,000.00	
- 707.90	28,030.00	65,200.00	- 328,000,000.00	- 7,874,000.00	583,100.00	
65.64	28,110.00	45,230.00	217,500,000.00	- 1,317,000.00	- 1,293,000.00	
558.20	27,940.00	47,810.00	217,200,000.00	- 873,000.00	- 1,220,000.00	
- 954.20	27,940.00	63,910.00	- 327,800,000.00	- 8,096,000.00	619,700.00	
- 461.60	28,110.00	66,490.00	- 328,100,000.00	- 7,652,000.00	546,600.00	
- 6,297.00	132.50	56,010.00	- 54,400,000.00	- 51,600,000.00	70,410.00	
5,901.00	132.60	55,710.00	- 56,230,000.00	42,630,000.00	- 1,910,000.00	
- 6,544.00	214.70	54,720.00	- 54,250,000.00	- 51,820,000.00	33,890.00	
- 6,051.00	50.35	57,290.00	- 54,560,000.00	- 51,370,000.00	106,900.00	
5,655.00	50.43	54,430.00	- 56,080,000.00	42,400,000.00	- 1,946,000.00	
6,148.00	214.80	57,000.00	- 56,390,000.00	42,850,000.00	- 1,873,000.00	
- 5,788.00	28,160.00	46,670.00	218,300,000.00	- 48,210,000.00	266,100.00	
- 6,807.00	27,890.00	65,350.00	- 327,100,000.00	- 54,980,000.00	406,900.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 124 di 215

Reazioni vincolari - STR A1						
Rx	Ry		N	Mx	My	Mz
N	N		N	Nmm	Nmm	Nmm
6,411.00	-	27,890.00	46,370.00	216,400,000.00	46,020,000.00	- 2,246,000.00
5,392.00		28,160.00	65,060.00	- 328,900,000.00	39,240,000.00	- 1,573,000.00
- 6,034.00	-	28,240.00	45,380.00	218,400,000.00	- 48,430,000.00	- 302,600.00
- 5,541.00	-	28,080.00	47,950.00	218,100,000.00	- 47,980,000.00	- 229,600.00
- 7,054.00		27,810.00	64,060.00	- 326,900,000.00	- 55,210,000.00	370,400.00
- 6,561.00		27,980.00	66,640.00	- 327,200,000.00	- 54,760,000.00	443,500.00
6,165.00	-	27,980.00	45,090.00	216,600,000.00	45,790,000.00	- 2,283,000.00
6,658.00	-	27,810.00	47,660.00	216,300,000.00	46,240,000.00	- 2,210,000.00
5,145.00		28,080.00	63,770.00	- 328,700,000.00	39,010,000.00	- 1,610,000.00
5,638.00		28,240.00	66,340.00	- 329,000,000.00	39,460,000.00	- 1,537,000.00
- 820.90	-	273.90	50,130.00	- 48,510,000.00	- 3,216,000.00	- 121,700.00
820.90		274.00	58,710.00	- 49,540,000.00	- 1,734,000.00	121,700.00
- 667.90	-	8,682.00	47,320.00	33,290,000.00	- 2,199,000.00	- 222,700.00
973.90	-	8,134.00	55,910.00	32,260,000.00	- 717,600.00	20,780.00
- 973.90		8,134.00	52,930.00	- 130,300,000.00	- 4,233,000.00	- 20,730.00
668.00		8,682.00	61,520.00	- 131,300,000.00	- 2,751,000.00	222,700.00
- 6,920.00	-	406.50	50,270.00	- 47,590,000.00	- 50,330,000.00	868,400.00
- 5,279.00		141.40	58,860.00	- 48,630,000.00	- 48,850,000.00	1,112,000.00
5,279.00	-	141.30	49,980.00	- 49,420,000.00	43,890,000.00	- 1,112,000.00
6,920.00		406.60	58,570.00	- 50,450,000.00	45,380,000.00	- 868,400.00
- 5,947.00	-	8,540.00	51,760.00	33,690,000.00	- 48,570,000.00	889,200.00
- 6,252.00		8,275.00	57,370.00	- 129,900,000.00	- 50,600,000.00	1,091,000.00
6,252.00	-	8,275.00	51,470.00	31,860,000.00	45,650,000.00	- 1,091,000.00
5,947.00		8,540.00	57,080.00	- 131,700,000.00	43,620,000.00	- 889,100.00
- 6,767.00	-	8,814.00	47,470.00	34,200,000.00	- 49,310,000.00	767,400.00
- 5,126.00	-	8,266.00	56,060.00	33,170,000.00	- 47,830,000.00	1,011,000.00
- 7,073.00		8,001.00	53,070.00	- 129,400,000.00	- 51,340,000.00	969,400.00
- 5,432.00		8,549.00	61,660.00	- 130,400,000.00	- 49,860,000.00	1,213,000.00
5,432.00	-	8,549.00	47,180.00	32,370,000.00	44,910,000.00	- 1,213,000.00
7,073.00	-	8,001.00	55,770.00	31,340,000.00	46,390,000.00	- 969,300.00
5,126.00		8,267.00	52,780.00	- 131,200,000.00	42,880,000.00	- 1,011,000.00
6,767.00		8,814.00	61,370.00	- 132,300,000.00	44,360,000.00	- 767,400.00
- 1,019.00	-	273.90	51,570.00	- 54,800,000.00	- 5,225,000.00	- 1,041,000.00
622.90		274.00	60,150.00	- 55,830,000.00	- 3,744,000.00	- 798,000.00
- 865.90	-	8,682.00	48,760.00	27,000,000.00	- 4,208,000.00	- 1,142,000.00
775.90	-	8,134.00	57,350.00	25,960,000.00	- 2,727,000.00	- 898,900.00
- 1,172.00		8,134.00	54,370.00	- 136,600,000.00	- 6,242,000.00	- 940,400.00
470.00		8,682.00	62,960.00	- 137,600,000.00	- 4,761,000.00	- 697,000.00
- 7,118.00	-	406.50	51,710.00	- 53,890,000.00	- 52,340,000.00	- 51,310.00
- 5,477.00		141.40	60,300.00	- 54,920,000.00	- 50,850,000.00	192,100.00
5,081.00	-	141.30	51,420.00	- 55,720,000.00	41,890,000.00	- 2,031,000.00
6,722.00		406.60	60,010.00	- 56,750,000.00	43,370,000.00	- 1,788,000.00
- 6,145.00	-	8,540.00	53,200.00	27,390,000.00	- 50,580,000.00	- 30,550.00
- 6,450.00		8,275.00	58,810.00	- 136,200,000.00	- 52,610,000.00	171,400.00
6,054.00	-	8,275.00	52,910.00	25,570,000.00	43,640,000.00	- 2,011,000.00
5,749.00		8,540.00	58,520.00	- 138,000,000.00	41,610,000.00	- 1,809,000.00
- 6,965.00	-	8,814.00	48,910.00	27,910,000.00	- 51,320,000.00	- 152,300.00
- 5,324.00	-	8,266.00	57,500.00	26,880,000.00	- 49,840,000.00	91,170.00
- 7,271.00		8,001.00	54,510.00	- 135,700,000.00	- 53,350,000.00	49,650.00
- 5,630.00		8,549.00	63,100.00	- 136,700,000.00	- 51,870,000.00	293,100.00
5,234.00	-	8,549.00	48,620.00	26,080,000.00	42,900,000.00	- 2,132,000.00
6,875.00	-	8,001.00	57,210.00	25,050,000.00	44,380,000.00	- 1,889,000.00
4,928.00		8,267.00	54,220.00	- 137,500,000.00	40,870,000.00	- 1,931,000.00
6,569.00		8,814.00	62,810.00	- 138,500,000.00	42,350,000.00	- 1,687,000.00



## Reazioni vincolari - EQU

Rx	Ry	N	Mx	My	Mz
N	N	N	Nmm	Nmm	Nmm
0.00	0.04	53,630.00	- 50,880,000.00	- 2,723,000.00	23.42
0.00	0.03	55,210.00	- 47,170,000.00	- 2,228,000.00	21.72
0.00	0.04	59,860.00	- 53,930,000.00	- 2,723,000.00	24.82
0.00	10,620.00	48,980.00	- 107,400,000.00	- 2,228,000.00	354,700.00
0.00	6,370.00	45,520.00	- 88,560,000.00	- 1,704,000.00	354,700.00
14,210.00	0.04	48,980.00	- 44,120,000.00	100,200,000.00	24,950,000.00
14,210.00	0.04	48,980.00	- 44,120,000.00	100,200,000.00	24,950,000.00
14,210.00	10,620.00	48,980.00	- 107,400,000.00	100,200,000.00	25,310,000.00
- 990.00	4,249.00	59,630.00	- 94,430,000.00	- 12,800,000.00	- 4,599,000.00
- 990.00	6,370.00	52,720.00	- 120,000,000.00	- 11,750,000.00	- 4,244,000.00
- 990.00	14,870.00	59,630.00	- 157,700,000.00	- 12,800,000.00	- 4,244,000.00
- 990.00	6,370.00	52,720.00	- 120,000,000.00	- 11,750,000.00	- 4,244,000.00
- 990.00	14,870.00	59,630.00	- 157,700,000.00	- 12,800,000.00	- 4,244,000.00
13,220.00	0.07	56,180.00	- 75,590,000.00	90,200,000.00	20,360,000.00
13,220.00	- 4,249.00	52,720.00	- 56,740,000.00	90,730,000.00	20,360,000.00
13,220.00	10,620.00	56,180.00	- 138,900,000.00	90,200,000.00	20,710,000.00
0.00	10,620.00	53,630.00	- 114,200,000.00	- 2,723,000.00	354,700.00
0.00	14,870.00	57,090.00	- 133,000,000.00	- 3,246,000.00	354,700.00
14,210.00	0.05	53,630.00	- 50,880,000.00	99,750,000.00	24,950,000.00
14,210.00	4,249.00	57,090.00	- 69,720,000.00	99,230,000.00	24,950,000.00
14,210.00	4,249.00	57,090.00	- 69,720,000.00	99,230,000.00	24,950,000.00
14,210.00	14,870.00	57,090.00	- 133,000,000.00	99,230,000.00	25,310,000.00
14,210.00	6,370.00	50,180.00	- 95,310,000.00	100,300,000.00	25,310,000.00
- 990.00	0.06	60,830.00	- 82,340,000.00	- 12,770,000.00	- 4,599,000.00
- 990.00	10,620.00	60,830.00	- 145,600,000.00	- 12,770,000.00	- 4,244,000.00
- 990.00	14,870.00	64,290.00	- 164,500,000.00	- 13,290,000.00	- 4,244,000.00
13,220.00	10,620.00	60,830.00	- 145,600,000.00	89,710,000.00	20,710,000.00
13,220.00	10,620.00	60,830.00	- 145,600,000.00	89,710,000.00	20,710,000.00
13,220.00	6,370.00	57,380.00	- 126,800,000.00	90,230,000.00	20,710,000.00
13,220.00	14,870.00	64,290.00	- 164,500,000.00	89,180,000.00	20,710,000.00
0.00	0.03	55,210.00	- 47,170,000.00	- 2,228,000.00	21.87
0.00	4,249.00	58,660.00	- 66,020,000.00	- 2,751,000.00	26.97
0.00	6,370.00	51,750.00	- 91,610,000.00	- 1,704,000.00	354,700.00
14,210.00	0.05	55,210.00	- 47,170,000.00	100,200,000.00	24,950,000.00
14,210.00	4,249.00	58,660.00	- 66,020,000.00	99,730,000.00	24,950,000.00
14,210.00	6,370.00	51,750.00	- 91,610,000.00	100,800,000.00	25,310,000.00
14,210.00	14,870.00	58,660.00	- 129,300,000.00	99,730,000.00	25,310,000.00
14,210.00	6,370.00	51,750.00	- 91,610,000.00	100,800,000.00	25,310,000.00
14,210.00	14,870.00	58,660.00	- 129,300,000.00	99,730,000.00	25,310,000.00
- 990.00	6,370.00	58,950.00	- 123,100,000.00	- 11,750,000.00	- 4,244,000.00
13,220.00	0.07	62,410.00	- 78,640,000.00	90,200,000.00	20,360,000.00
13,220.00	- 4,249.00	58,950.00	- 59,790,000.00	90,730,000.00	20,360,000.00
13,220.00	10,620.00	62,410.00	- 141,900,000.00	90,200,000.00	20,710,000.00
13,220.00	10,620.00	62,410.00	- 141,900,000.00	90,200,000.00	20,710,000.00
13,220.00	6,370.00	58,950.00	- 123,100,000.00	90,730,000.00	20,710,000.00
13,220.00	14,870.00	65,860.00	- 160,800,000.00	89,680,000.00	20,710,000.00
14,210.00	6,370.00	56,410.00	- 98,360,000.00	100,300,000.00	25,310,000.00
13,220.00	4,249.00	70,520.00	- 104,200,000.00	89,180,000.00	20,360,000.00
13,220.00	10,620.00	67,060.00	- 148,700,000.00	89,710,000.00	20,710,000.00
13,220.00	14,870.00	70,520.00	- 167,500,000.00	89,180,000.00	20,710,000.00
0.00	10,620.00	48,980.00	- 107,400,000.00	- 2,228,000.00	354,700.00
0.00	6,370.00	45,520.00	- 88,560,000.00	- 1,704,000.00	354,700.00
0.00	14,870.00	52,430.00	- 126,300,000.00	- 2,751,000.00	354,700.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 126 di 215

Reazioni vincolari - EQU											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
	14,210.00		10,620.00		48,980.00	-	107,400,000.00		100,200,000.00		25,310,000.00
	14,210.00		6,370.00		45,520.00	-	88,560,000.00		100,800,000.00		25,310,000.00
	14,210.00		6,370.00		45,520.00	-	88,560,000.00		100,800,000.00		25,310,000.00
	14,210.00		14,870.00		52,430.00	-	126,300,000.00		99,730,000.00		25,310,000.00
-	990.00		4,249.00		59,630.00	-	94,430,000.00	-	12,800,000.00	-	4,599,000.00
-	990.00		10,620.00		56,180.00	-	138,900,000.00	-	12,280,000.00	-	4,244,000.00
-	990.00		6,370.00		52,720.00	-	120,000,000.00	-	11,750,000.00	-	4,244,000.00
	13,220.00	-	4,249.00		52,720.00	-	56,740,000.00		90,730,000.00		20,360,000.00
	13,220.00		4,249.00		59,630.00	-	94,430,000.00		89,680,000.00		20,360,000.00
	13,220.00		10,620.00		56,180.00	-	138,900,000.00		90,200,000.00		20,710,000.00
	13,220.00		6,370.00		52,720.00	-	120,000,000.00		90,730,000.00		20,710,000.00
	13,220.00		6,370.00		52,720.00	-	120,000,000.00		90,730,000.00		20,710,000.00
	13,220.00		14,870.00		59,630.00	-	157,700,000.00		89,680,000.00		20,710,000.00
	0.00		10,620.00		53,630.00	-	114,200,000.00	-	2,723,000.00		354,700.00
	0.00		14,870.00		57,090.00	-	133,000,000.00	-	3,246,000.00		354,700.00
	14,210.00		0.05		53,630.00	-	50,880,000.00		99,750,000.00		24,950,000.00
	14,210.00		10,620.00		53,630.00	-	114,200,000.00		99,750,000.00		25,310,000.00
	14,210.00		10,620.00		53,630.00	-	114,200,000.00		99,750,000.00		25,310,000.00
	14,210.00		6,370.00		50,180.00	-	95,310,000.00		100,300,000.00		25,310,000.00
	14,210.00		6,370.00		50,180.00	-	95,310,000.00		100,300,000.00		25,310,000.00
	14,210.00		14,870.00		57,090.00	-	133,000,000.00		99,230,000.00		25,310,000.00
-	990.00		0.06		60,830.00	-	82,340,000.00	-	12,770,000.00	-	4,599,000.00
-	990.00		4,249.00		64,290.00	-	101,200,000.00	-	13,290,000.00	-	4,599,000.00
-	990.00		10,620.00		60,830.00	-	145,600,000.00	-	12,770,000.00	-	4,244,000.00
	13,220.00		10,620.00		60,830.00	-	145,600,000.00		89,710,000.00		20,710,000.00
	13,220.00		6,370.00		57,380.00	-	126,800,000.00		90,230,000.00		20,710,000.00
	13,220.00		14,870.00		64,290.00	-	164,500,000.00		89,180,000.00		20,710,000.00
	13,220.00		6,370.00		57,380.00	-	126,800,000.00		90,230,000.00		20,710,000.00
	13,220.00		14,870.00		64,290.00	-	164,500,000.00		89,180,000.00		20,710,000.00
	0.00		4,249.00		58,660.00	-	66,020,000.00	-	2,751,000.00		26.67
	0.00		10,620.00		55,210.00	-	110,500,000.00	-	2,228,000.00		354,700.00
	0.00		10,620.00		55,210.00	-	110,500,000.00	-	2,228,000.00		354,700.00
	0.00		6,370.00		51,750.00	-	91,610,000.00	-	1,704,000.00		354,700.00
	14,210.00		0.05		55,210.00	-	47,170,000.00		100,200,000.00		24,950,000.00
	14,210.00		10,620.00		55,210.00	-	110,500,000.00		100,200,000.00		25,310,000.00
	14,210.00		6,370.00		51,750.00	-	91,610,000.00		100,800,000.00		25,310,000.00
	14,210.00		14,870.00		58,660.00	-	129,300,000.00		99,730,000.00		25,310,000.00
-	990.00		14,870.00		65,860.00	-	160,800,000.00	-	12,800,000.00	-	4,244,000.00
	13,220.00		0.07		62,410.00	-	78,640,000.00		90,200,000.00		20,360,000.00
	13,220.00	-	4,249.00		58,950.00	-	59,790,000.00		90,730,000.00		20,360,000.00
	13,220.00		4,249.00		65,860.00	-	97,480,000.00		89,680,000.00		20,360,000.00
	13,220.00		10,620.00		62,410.00	-	141,900,000.00		90,200,000.00		20,710,000.00
	13,220.00		6,370.00		58,950.00	-	123,100,000.00		90,730,000.00		20,710,000.00
	13,220.00		14,870.00		65,860.00	-	160,800,000.00		89,680,000.00		20,710,000.00
	13,220.00		6,370.00		58,950.00	-	123,100,000.00		90,730,000.00		20,710,000.00
	13,220.00		14,870.00		65,860.00	-	160,800,000.00		89,680,000.00		20,710,000.00
	0.00		4,249.00		63,320.00	-	72,770,000.00	-	3,246,000.00		29.78
	0.00		10,620.00		59,860.00	-	117,200,000.00	-	2,723,000.00		354,700.00
	14,210.00		10,620.00		59,860.00	-	117,200,000.00		99,750,000.00		25,310,000.00
	14,210.00		10,620.00		59,860.00	-	117,200,000.00		99,750,000.00		25,310,000.00
	14,210.00		6,370.00		56,410.00	-	98,360,000.00		100,300,000.00		25,310,000.00
	14,210.00		14,870.00		63,320.00	-	136,100,000.00		99,230,000.00		25,310,000.00
	13,220.00		10,620.00		67,060.00	-	148,700,000.00		89,710,000.00		20,710,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 127 di 215

Reazioni vincolari - EQU						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
13,220.00	6,370.00	63,610.00	- 129,800,000.00	90,230,000.00	20,710,000.00	
13,220.00	14,870.00	70,520.00	- 167,500,000.00	89,180,000.00	20,710,000.00	
0.00	0.04	53,330.00	- 57,170,000.00	- 2,228,000.00	26.48	
0.00	- 4,249.00	49,880.00	- 38,320,000.00	- 1,704,000.00	21.23	
0.00	10,620.00	48,980.00	- 107,400,000.00	- 2,228,000.00	354,700.00	
0.00	10,620.00	53,330.00	- 120,400,000.00	- 2,228,000.00	354,700.00	
0.00	10,620.00	53,330.00	- 120,400,000.00	- 2,228,000.00	354,700.00	
0.00	14,870.00	52,430.00	- 126,300,000.00	- 2,751,000.00	354,700.00	
0.00	6,370.00	45,520.00	- 88,560,000.00	- 1,704,000.00	354,700.00	
0.00	14,870.00	52,430.00	- 126,300,000.00	- 2,751,000.00	354,700.00	
0.00	6,370.00	49,880.00	- 101,600,000.00	- 1,704,000.00	354,700.00	
0.00	6,370.00	49,880.00	- 101,600,000.00	- 1,704,000.00	354,700.00	
14,210.00	0.05	53,330.00	- 57,170,000.00	100,200,000.00	24,950,000.00	
14,210.00	0.05	53,330.00	- 57,170,000.00	100,200,000.00	24,950,000.00	
14,210.00	- 4,249.00	45,520.00	- 25,270,000.00	100,800,000.00	24,950,000.00	
14,210.00	10,620.00	48,980.00	- 107,400,000.00	100,200,000.00	25,310,000.00	
14,210.00	10,620.00	53,330.00	- 120,400,000.00	100,200,000.00	25,310,000.00	
14,210.00	10,620.00	53,330.00	- 120,400,000.00	100,200,000.00	25,310,000.00	
14,210.00	14,870.00	52,430.00	- 126,300,000.00	99,730,000.00	25,310,000.00	
14,210.00	6,370.00	45,520.00	- 88,560,000.00	100,800,000.00	25,310,000.00	
14,210.00	14,870.00	52,430.00	- 126,300,000.00	99,730,000.00	25,310,000.00	
14,210.00	6,370.00	49,880.00	- 101,600,000.00	100,800,000.00	25,310,000.00	
14,210.00	14,870.00	56,790.00	- 139,300,000.00	99,730,000.00	25,310,000.00	
14,210.00	6,370.00	49,880.00	- 101,600,000.00	100,800,000.00	25,310,000.00	
14,210.00	14,870.00	56,790.00	- 139,300,000.00	99,730,000.00	25,310,000.00	
- 990.00	4,249.00	63,990.00	- 107,500,000.00	- 12,800,000.00	- 4,599,000.00	
- 990.00	10,620.00	56,180.00	- 138,900,000.00	- 12,280,000.00	- 4,244,000.00	
- 990.00	10,620.00	60,530.00	- 151,900,000.00	- 12,280,000.00	- 4,244,000.00	
- 990.00	6,370.00	57,080.00	- 133,100,000.00	- 11,750,000.00	- 4,244,000.00	
13,220.00	0.07	60,530.00	- 88,630,000.00	90,200,000.00	20,360,000.00	
13,220.00	0.07	60,530.00	- 88,630,000.00	90,200,000.00	20,360,000.00	
13,220.00	4,249.00	59,630.00	- 94,430,000.00	89,680,000.00	20,360,000.00	
13,220.00	- 4,249.00	57,080.00	- 69,780,000.00	90,730,000.00	20,360,000.00	
13,220.00	4,249.00	63,990.00	- 107,500,000.00	89,680,000.00	20,360,000.00	
13,220.00	10,620.00	56,180.00	- 138,900,000.00	90,200,000.00	20,710,000.00	
13,220.00	10,620.00	60,530.00	- 151,900,000.00	90,200,000.00	20,710,000.00	
13,220.00	10,620.00	60,530.00	- 151,900,000.00	90,200,000.00	20,710,000.00	
13,220.00	14,870.00	59,630.00	- 157,700,000.00	89,680,000.00	20,710,000.00	
13,220.00	6,370.00	52,720.00	- 120,000,000.00	90,730,000.00	20,710,000.00	
13,220.00	14,870.00	59,630.00	- 157,700,000.00	89,680,000.00	20,710,000.00	
13,220.00	6,370.00	57,080.00	- 133,100,000.00	90,730,000.00	20,710,000.00	
13,220.00	14,870.00	63,990.00	- 170,800,000.00	89,680,000.00	20,710,000.00	
13,220.00	6,370.00	57,080.00	- 133,100,000.00	90,730,000.00	20,710,000.00	
13,220.00	14,870.00	63,990.00	- 170,800,000.00	89,680,000.00	20,710,000.00	
0.00	- 4,249.00	50,180.00	- 32,030,000.00	- 2,199,000.00	18.46	
0.00	4,249.00	57,090.00	- 69,720,000.00	- 3,246,000.00	28.67	
0.00	10,620.00	57,990.00	- 127,200,000.00	- 2,723,000.00	354,700.00	
0.00	10,620.00	57,990.00	- 127,200,000.00	- 2,723,000.00	354,700.00	
0.00	6,370.00	50,180.00	- 95,310,000.00	- 2,199,000.00	354,700.00	
0.00	6,370.00	54,530.00	- 108,400,000.00	- 2,199,000.00	354,700.00	
0.00	14,870.00	61,450.00	- 146,100,000.00	- 3,246,000.00	354,700.00	
0.00	14,870.00	61,450.00	- 146,100,000.00	- 3,246,000.00	354,700.00	
14,210.00	0.06	57,990.00	- 63,920,000.00	99,750,000.00	24,950,000.00	
14,210.00	- 4,249.00	50,180.00	- 32,030,000.00	100,300,000.00	24,950,000.00	
14,210.00	10,620.00	53,630.00	- 114,200,000.00	99,750,000.00	25,310,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 128 di 215

Reazioni vincolari - EQU						
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>	
14,210.00	10,620.00	57,990.00	- 127,200,000.00	99,750,000.00	25,310,000.00	
14,210.00	10,620.00	57,990.00	- 127,200,000.00	99,750,000.00	25,310,000.00	
14,210.00	14,870.00	57,090.00	- 133,000,000.00	99,230,000.00	25,310,000.00	
14,210.00	6,370.00	54,530.00	- 108,400,000.00	100,300,000.00	25,310,000.00	
14,210.00	14,870.00	61,450.00	- 146,100,000.00	99,230,000.00	25,310,000.00	
14,210.00	6,370.00	54,530.00	- 108,400,000.00	100,300,000.00	25,310,000.00	
14,210.00	14,870.00	61,450.00	- 146,100,000.00	99,230,000.00	25,310,000.00	
- 990.00	0.07	65,190.00	- 95,390,000.00	- 12,770,000.00	- 4,599,000.00	
- 990.00	- 4,249.00	57,380.00	- 63,490,000.00	- 12,250,000.00	- 4,599,000.00	
- 990.00	4,249.00	64,290.00	- 101,200,000.00	- 13,290,000.00	- 4,599,000.00	
- 990.00	- 4,249.00	61,730.00	- 76,540,000.00	- 12,250,000.00	- 4,599,000.00	
13,220.00	0.07	60,830.00	- 82,340,000.00	89,710,000.00	20,360,000.00	
13,220.00	0.08	65,190.00	- 95,390,000.00	89,710,000.00	20,360,000.00	
13,220.00	4,249.00	64,290.00	- 101,200,000.00	89,180,000.00	20,360,000.00	
13,220.00	- 4,249.00	61,730.00	- 76,540,000.00	90,230,000.00	20,360,000.00	
13,220.00	4,249.00	68,650.00	- 114,200,000.00	89,180,000.00	20,360,000.00	
13,220.00	10,620.00	65,190.00	- 158,700,000.00	89,710,000.00	20,710,000.00	
13,220.00	10,620.00	65,190.00	- 158,700,000.00	89,710,000.00	20,710,000.00	
13,220.00	6,370.00	61,730.00	- 139,800,000.00	90,230,000.00	20,710,000.00	
13,220.00	14,870.00	68,650.00	- 177,500,000.00	89,180,000.00	20,710,000.00	
13,220.00	6,370.00	61,730.00	- 139,800,000.00	90,230,000.00	20,710,000.00	
13,220.00	14,870.00	68,650.00	- 177,500,000.00	89,180,000.00	20,710,000.00	
0.00	10,620.00	59,560.00	- 123,500,000.00	- 2,228,000.00	354,700.00	
0.00	6,370.00	56,110.00	- 104,700,000.00	- 1,704,000.00	354,700.00	
0.00	14,870.00	63,020.00	- 142,300,000.00	- 2,751,000.00	354,700.00	
0.00	14,870.00	63,020.00	- 142,300,000.00	- 2,751,000.00	354,700.00	
14,210.00	0.06	59,560.00	- 60,220,000.00	100,200,000.00	24,950,000.00	
14,210.00	- 4,249.00	51,750.00	- 28,320,000.00	100,800,000.00	24,950,000.00	
14,210.00	- 4,249.00	51,750.00	- 28,320,000.00	100,800,000.00	24,950,000.00	
14,210.00	- 4,249.00	56,110.00	- 41,370,000.00	100,800,000.00	24,950,000.00	
14,210.00	4,249.00	63,020.00	- 79,070,000.00	99,730,000.00	24,950,000.00	
14,210.00	- 4,249.00	56,110.00	- 41,370,000.00	100,800,000.00	24,950,000.00	
14,210.00	10,620.00	55,210.00	- 110,500,000.00	100,200,000.00	25,310,000.00	
14,210.00	10,620.00	55,210.00	- 110,500,000.00	100,200,000.00	25,310,000.00	
14,210.00	10,620.00	59,560.00	- 123,500,000.00	100,200,000.00	25,310,000.00	
14,210.00	10,620.00	59,560.00	- 123,500,000.00	100,200,000.00	25,310,000.00	
14,210.00	6,370.00	56,110.00	- 104,700,000.00	100,800,000.00	25,310,000.00	
14,210.00	14,870.00	63,020.00	- 142,300,000.00	99,730,000.00	25,310,000.00	
14,210.00	6,370.00	56,110.00	- 104,700,000.00	100,800,000.00	25,310,000.00	
14,210.00	14,870.00	63,020.00	- 142,300,000.00	99,730,000.00	25,310,000.00	
- 990.00	0.06	66,760.00	- 91,680,000.00	- 12,280,000.00	- 4,599,000.00	
- 990.00	10,620.00	62,410.00	- 141,900,000.00	- 12,280,000.00	- 4,244,000.00	
- 990.00	10,620.00	62,410.00	- 141,900,000.00	- 12,280,000.00	- 4,244,000.00	
- 990.00	6,370.00	58,950.00	- 123,100,000.00	- 11,750,000.00	- 4,244,000.00	
- 990.00	14,870.00	65,860.00	- 160,800,000.00	- 12,800,000.00	- 4,244,000.00	
- 990.00	6,370.00	63,310.00	- 136,100,000.00	- 11,750,000.00	- 4,244,000.00	
- 990.00	14,870.00	70,220.00	- 173,800,000.00	- 12,800,000.00	- 4,244,000.00	
- 990.00	6,370.00	63,310.00	- 136,100,000.00	- 11,750,000.00	- 4,244,000.00	
- 990.00	14,870.00	70,220.00	- 173,800,000.00	- 12,800,000.00	- 4,244,000.00	
13,220.00	0.08	66,760.00	- 91,680,000.00	90,200,000.00	20,360,000.00	
13,220.00	- 4,249.00	58,950.00	- 59,790,000.00	90,730,000.00	20,360,000.00	
13,220.00	- 4,249.00	63,310.00	- 72,840,000.00	90,730,000.00	20,360,000.00	
13,220.00	4,249.00	70,220.00	- 110,500,000.00	89,680,000.00	20,360,000.00	
13,220.00	4,249.00	70,220.00	- 110,500,000.00	89,680,000.00	20,360,000.00	
13,220.00	10,620.00	66,760.00	- 155,000,000.00	90,200,000.00	20,710,000.00	



<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE					
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Progetto IN17</td> <td style="width: 15%;">Lotto 10</td> <td style="width: 40%;">Codifica Documento EI2CLOC000006</td> <td style="width: 10%;">Rev. A</td> <td style="width: 15%;">Foglio 129 di 215</td> </tr> </table>	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 129 di 215
Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 129 di 215		

Reazioni vincolari - EQU							
Rx	N	Ry	N	Mx	My	Mz	
	N		N	Nmm	Nmm	Nmm	
13,220.00		10,620.00		66,760.00	- 155,000,000.00	90,200,000.00	20,710,000.00
13,220.00		6,370.00		63,310.00	- 136,100,000.00	90,730,000.00	20,710,000.00
13,220.00		14,870.00		70,220.00	- 173,800,000.00	89,680,000.00	20,710,000.00
13,220.00		6,370.00		63,310.00	- 136,100,000.00	90,730,000.00	20,710,000.00
13,220.00		14,870.00		70,220.00	- 173,800,000.00	89,680,000.00	20,710,000.00
0.00		4,249.00		63,320.00	- 72,770,000.00	- 3,246,000.00	30.07
0.00		10,620.00		59,860.00	- 117,200,000.00	- 2,723,000.00	354,700.00
0.00		10,620.00		64,220.00	- 130,300,000.00	- 2,723,000.00	354,700.00
0.00		6,370.00		60,760.00	- 111,400,000.00	- 2,199,000.00	354,700.00
0.00		14,870.00		67,670.00	- 149,100,000.00	- 3,246,000.00	354,700.00
0.00		6,370.00		60,760.00	- 111,400,000.00	- 2,199,000.00	354,700.00
0.00		14,870.00		67,670.00	- 149,100,000.00	- 3,246,000.00	354,700.00
14,210.00		0.05		59,860.00	- 53,930,000.00	99,750,000.00	24,950,000.00
14,210.00		0.06		64,220.00	- 66,970,000.00	99,750,000.00	24,950,000.00
14,210.00		0.06		64,220.00	- 66,970,000.00	99,750,000.00	24,950,000.00
14,210.00		4,249.00		63,320.00	- 72,770,000.00	99,230,000.00	24,950,000.00
14,210.00	-	4,249.00		56,410.00	- 35,080,000.00	100,300,000.00	24,950,000.00
14,210.00	-	4,249.00		60,760.00	- 48,130,000.00	100,300,000.00	24,950,000.00
14,210.00		4,249.00		67,670.00	- 85,820,000.00	99,230,000.00	24,950,000.00
14,210.00		10,620.00		59,860.00	- 117,200,000.00	99,750,000.00	25,310,000.00
14,210.00		10,620.00		64,220.00	- 130,300,000.00	99,750,000.00	25,310,000.00
14,210.00		10,620.00		64,220.00	- 130,300,000.00	99,750,000.00	25,310,000.00
14,210.00		6,370.00		56,410.00	- 98,360,000.00	100,300,000.00	25,310,000.00
14,210.00		14,870.00		63,320.00	- 136,100,000.00	99,230,000.00	25,310,000.00
14,210.00		14,870.00		63,320.00	- 136,100,000.00	99,230,000.00	25,310,000.00
14,210.00		6,370.00		60,760.00	- 111,400,000.00	100,300,000.00	25,310,000.00
14,210.00		14,870.00		67,670.00	- 149,100,000.00	99,230,000.00	25,310,000.00
14,210.00		6,370.00		60,760.00	- 111,400,000.00	100,300,000.00	25,310,000.00
14,210.00		14,870.00		67,670.00	- 149,100,000.00	99,230,000.00	25,310,000.00
-	990.00	4,249.00		70,520.00	- 104,200,000.00	- 13,290,000.00	- 4,599,000.00
-	990.00	14,870.00		74,870.00	- 180,600,000.00	- 13,290,000.00	- 4,244,000.00
13,220.00		0.07		67,060.00	- 85,390,000.00	89,710,000.00	20,360,000.00
13,220.00		0.08		71,420.00	- 98,440,000.00	89,710,000.00	20,360,000.00
13,220.00		4,249.00		70,520.00	- 104,200,000.00	89,180,000.00	20,360,000.00
13,220.00	-	4,249.00		67,960.00	- 79,590,000.00	90,230,000.00	20,360,000.00
13,220.00		10,620.00		67,060.00	- 148,700,000.00	89,710,000.00	20,710,000.00
13,220.00		10,620.00		71,420.00	- 161,700,000.00	89,710,000.00	20,710,000.00
13,220.00		10,620.00		71,420.00	- 161,700,000.00	89,710,000.00	20,710,000.00
13,220.00		6,370.00		63,610.00	- 129,800,000.00	90,230,000.00	20,710,000.00
13,220.00		6,370.00		63,610.00	- 129,800,000.00	90,230,000.00	20,710,000.00
13,220.00		14,870.00		70,520.00	- 167,500,000.00	89,180,000.00	20,710,000.00
13,220.00		6,370.00		67,960.00	- 142,900,000.00	90,230,000.00	20,710,000.00
13,220.00		14,870.00		74,870.00	- 180,600,000.00	89,180,000.00	20,710,000.00
13,220.00		6,370.00		67,960.00	- 142,900,000.00	90,230,000.00	20,710,000.00
13,220.00		14,870.00		74,870.00	- 180,600,000.00	89,180,000.00	20,710,000.00
0.00	-	15,790.00		45,520.00	45,220,000.00	- 1,704,000.00	- 354,600.00
14,210.00		4,249.00		52,430.00	- 62,970,000.00	99,730,000.00	24,950,000.00
-	990.00	0.05		56,180.00	- 75,590,000.00	- 12,280,000.00	- 4,599,000.00
13,220.00		0.07		56,180.00	- 75,590,000.00	90,200,000.00	20,360,000.00
13,220.00	-	11,540.00		56,180.00	- 5,089,000.00	90,200,000.00	20,000,000.00
13,220.00	-	11,540.00		56,180.00	- 5,089,000.00	90,200,000.00	20,000,000.00
13,220.00	-	7,292.00		59,630.00	- 23,940,000.00	89,680,000.00	20,000,000.00
14,210.00	-	11,540.00		53,630.00	19,620,000.00	99,750,000.00	24,600,000.00
14,210.00	-	11,540.00		53,630.00	19,620,000.00	99,750,000.00	24,600,000.00
14,210.00	-	15,790.00		50,180.00	38,470,000.00	100,300,000.00	24,600,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 130 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
14,210.00	-	7,292.00	57,090.00	772,700.00	99,230,000.00	24,600,000.00				
14,210.00	-	15,790.00	50,180.00	38,470,000.00	100,300,000.00	24,600,000.00				
14,210.00	-	7,292.00	57,090.00	772,700.00	99,230,000.00	24,600,000.00				
13,220.00	-	4,249.00	57,380.00	- 63,490,000.00	90,230,000.00	20,360,000.00				
13,220.00	-	4,249.00	57,380.00	- 63,490,000.00	90,230,000.00	20,360,000.00				
13,220.00		4,249.00	64,290.00	- 101,200,000.00	89,180,000.00	20,360,000.00				
13,220.00	-	11,540.00	60,830.00	- 11,840,000.00	89,710,000.00	20,000,000.00				
13,220.00	-	11,540.00	60,830.00	- 11,840,000.00	89,710,000.00	20,000,000.00				
14,210.00		4,249.00	58,660.00	- 66,020,000.00	99,730,000.00	24,950,000.00				
14,210.00	-	11,540.00	55,210.00	23,320,000.00	100,200,000.00	24,600,000.00				
14,210.00	-	15,790.00	51,750.00	42,170,000.00	100,800,000.00	24,600,000.00				
14,210.00	-	7,292.00	58,660.00	4,477,000.00	99,730,000.00	24,600,000.00				
-	990.00	-	11,540.00	62,410.00	- 8,140,000.00	- 12,280,000.00	- 4,953,000.00			
13,220.00		0.07	62,410.00	- 78,640,000.00	90,200,000.00	20,360,000.00				
13,220.00	-	11,540.00	62,410.00	- 8,140,000.00	90,200,000.00	20,000,000.00				
13,220.00	-	11,540.00	62,410.00	- 8,140,000.00	90,200,000.00	20,000,000.00				
13,220.00	-	7,292.00	65,860.00	- 26,990,000.00	89,680,000.00	20,000,000.00				
13,220.00	-	15,790.00	58,950.00	10,710,000.00	90,730,000.00	20,000,000.00				
13,220.00	-	7,292.00	65,860.00	- 26,990,000.00	89,680,000.00	20,000,000.00				
0.00	-	15,790.00	56,410.00	35,420,000.00	- 2,199,000.00	- 354,600.00				
14,210.00	-	4,249.00	56,410.00	- 35,080,000.00	100,300,000.00	24,950,000.00				
14,210.00		4,249.00	63,320.00	- 72,770,000.00	99,230,000.00	24,950,000.00				
14,210.00	-	11,540.00	59,860.00	16,570,000.00	99,750,000.00	24,600,000.00				
14,210.00	-	15,790.00	56,410.00	35,420,000.00	100,300,000.00	24,600,000.00				
14,210.00	-	7,292.00	63,320.00	- 2,278,000.00	99,230,000.00	24,600,000.00				
14,210.00	-	15,790.00	56,410.00	35,420,000.00	100,300,000.00	24,600,000.00				
14,210.00	-	7,292.00	63,320.00	- 2,278,000.00	99,230,000.00	24,600,000.00				
13,220.00	-	11,540.00	67,060.00	- 14,890,000.00	89,710,000.00	20,000,000.00				
13,220.00	-	11,540.00	67,060.00	- 14,890,000.00	89,710,000.00	20,000,000.00				
13,220.00	-	15,790.00	63,610.00	3,954,000.00	90,230,000.00	20,000,000.00				
13,220.00	-	15,790.00	63,610.00	3,954,000.00	90,230,000.00	20,000,000.00				
13,220.00	-	7,292.00	70,520.00	- 33,740,000.00	89,180,000.00	20,000,000.00				
0.00	-	4,249.00	45,520.00	- 25,270,000.00	- 1,704,000.00	15.21				
0.00	-	4,249.00	45,520.00	- 25,270,000.00	- 1,704,000.00	15.06				
0.00	-	11,540.00	48,980.00	26,380,000.00	- 2,228,000.00	- 354,600.00				
0.00	-	11,540.00	48,980.00	26,380,000.00	- 2,228,000.00	- 354,600.00				
0.00	-	15,790.00	45,520.00	45,220,000.00	- 1,704,000.00	- 354,600.00				
14,210.00		0.05	48,980.00	- 44,120,000.00	100,200,000.00	24,950,000.00				
14,210.00	-	4,249.00	45,520.00	- 25,270,000.00	100,800,000.00	24,950,000.00				
14,210.00		4,249.00	52,430.00	- 62,970,000.00	99,730,000.00	24,950,000.00				
14,210.00	-	11,540.00	48,980.00	26,370,000.00	100,200,000.00	24,600,000.00				
14,210.00	-	15,790.00	45,520.00	45,220,000.00	100,800,000.00	24,600,000.00				
14,210.00	-	7,292.00	52,430.00	7,527,000.00	99,730,000.00	24,600,000.00				
14,210.00	-	15,790.00	45,520.00	45,220,000.00	100,800,000.00	24,600,000.00				
14,210.00	-	7,292.00	52,430.00	7,527,000.00	99,730,000.00	24,600,000.00				
-	990.00		0.05	56,180.00	- 75,590,000.00	- 12,280,000.00	- 4,599,000.00			
-	990.00	-	4,249.00	52,720.00	- 56,740,000.00	- 11,750,000.00	- 4,599,000.00			
-	990.00		4,249.00	59,630.00	- 94,430,000.00	- 12,800,000.00	- 4,599,000.00			
-	990.00	-	4,249.00	52,720.00	- 56,740,000.00	- 11,750,000.00	- 4,599,000.00			
-	990.00	-	7,292.00	59,630.00	- 23,940,000.00	- 12,800,000.00	- 4,953,000.00			
13,220.00		0.07	56,180.00	- 75,590,000.00	90,200,000.00	20,360,000.00				
13,220.00	-	4,249.00	52,720.00	- 56,740,000.00	90,730,000.00	20,360,000.00				
13,220.00		4,249.00	59,630.00	- 94,430,000.00	89,680,000.00	20,360,000.00				
13,220.00	-	11,540.00	56,180.00	- 5,089,000.00	90,200,000.00	20,000,000.00				
13,220.00	-	15,790.00	52,720.00	13,760,000.00	90,730,000.00	20,000,000.00				

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 131 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
	13,220.00	-	7,292.00		59,630.00	-	23,940,000.00		89,680,000.00	20,000,000.00
	13,220.00	-	15,790.00		52,720.00		13,760,000.00		90,730,000.00	20,000,000.00
	13,220.00	-	7,292.00		59,630.00	-	23,940,000.00		89,680,000.00	20,000,000.00
	0.00		0.04		53,630.00	-	50,880,000.00	-	2,723,000.00	23.27
	0.00	-	11,540.00		53,630.00		19,620,000.00	-	2,723,000.00	- 354,600.00
	0.00	-	7,292.00		57,090.00		772,800.00	-	3,246,000.00	- 354,600.00
	14,210.00		0.05		53,630.00	-	50,880,000.00		99,750,000.00	24,950,000.00
	14,210.00	-	4,249.00		50,180.00	-	32,030,000.00		100,300,000.00	24,950,000.00
	14,210.00		4,249.00		57,090.00	-	69,720,000.00		99,230,000.00	24,950,000.00
	14,210.00	-	11,540.00		53,630.00		19,620,000.00		99,750,000.00	24,600,000.00
	14,210.00	-	15,790.00		50,180.00		38,470,000.00		100,300,000.00	24,600,000.00
	14,210.00	-	7,292.00		57,090.00		772,700.00		99,230,000.00	24,600,000.00
	- 990.00	-	11,540.00		60,830.00	-	11,840,000.00	-	12,770,000.00	- 4,953,000.00
	- 990.00	-	7,292.00		64,290.00	-	30,690,000.00	-	13,290,000.00	- 4,953,000.00
	- 990.00	-	15,790.00		57,380.00		7,004,000.00	-	12,250,000.00	- 4,953,000.00
	- 990.00	-	7,292.00		64,290.00	-	30,690,000.00	-	13,290,000.00	- 4,953,000.00
	13,220.00		0.07		60,830.00	-	82,340,000.00		89,710,000.00	20,360,000.00
	13,220.00	-	4,249.00		57,380.00	-	63,490,000.00		90,230,000.00	20,360,000.00
	13,220.00		4,249.00		64,290.00	-	101,200,000.00		89,180,000.00	20,360,000.00
	13,220.00	-	11,540.00		60,830.00	-	11,840,000.00		89,710,000.00	20,000,000.00
	13,220.00	-	15,790.00		57,380.00		7,004,000.00		90,230,000.00	20,000,000.00
	13,220.00	-	7,292.00		64,290.00	-	30,690,000.00		89,180,000.00	20,000,000.00
	0.00	-	11,540.00		55,210.00		23,320,000.00	-	2,228,000.00	- 354,600.00
	0.00	-	7,292.00		58,660.00		4,477,000.00	-	2,751,000.00	- 354,600.00
	14,210.00	-	4,249.00		51,750.00	-	28,320,000.00		100,800,000.00	24,950,000.00
	14,210.00		4,249.00		58,660.00	-	66,020,000.00		99,730,000.00	24,950,000.00
	14,210.00	-	11,540.00		55,210.00		23,320,000.00		100,200,000.00	24,600,000.00
	14,210.00	-	7,292.00		58,660.00		4,477,000.00		99,730,000.00	24,600,000.00
	14,210.00	-	15,790.00		51,750.00		42,170,000.00		100,800,000.00	24,600,000.00
	14,210.00	-	7,292.00		58,660.00		4,477,000.00		99,730,000.00	24,600,000.00
	- 990.00	-	4,249.00		58,950.00	-	59,790,000.00	-	11,750,000.00	- 4,599,000.00
	- 990.00	-	11,540.00		62,410.00	-	8,140,000.00	-	12,280,000.00	- 4,953,000.00
	- 990.00	-	15,790.00		58,950.00		10,710,000.00	-	11,750,000.00	- 4,953,000.00
	13,220.00	-	11,540.00		62,410.00	-	8,140,000.00		90,200,000.00	20,000,000.00
	13,220.00	-	15,790.00		58,950.00		10,710,000.00		90,730,000.00	20,000,000.00
	13,220.00	-	15,790.00		58,950.00		10,710,000.00		90,730,000.00	20,000,000.00
	13,220.00	-	7,292.00		65,860.00	-	26,990,000.00		89,680,000.00	20,000,000.00
	0.00		0.04		59,860.00	-	53,930,000.00	-	2,723,000.00	24.68
	0.00	-	7,292.00		63,320.00	-	2,278,000.00	-	3,246,000.00	- 354,600.00
	14,210.00		0.05		59,860.00	-	53,930,000.00		99,750,000.00	24,950,000.00
	14,210.00	-	4,249.00		56,410.00	-	35,080,000.00		100,300,000.00	24,950,000.00
	14,210.00		4,249.00		63,320.00	-	72,770,000.00		99,230,000.00	24,950,000.00
	14,210.00	-	11,540.00		59,860.00		16,570,000.00		99,750,000.00	24,600,000.00
	14,210.00	-	11,540.00		59,860.00		16,570,000.00		99,750,000.00	24,600,000.00
	14,210.00	-	15,790.00		56,410.00		35,420,000.00		100,300,000.00	24,600,000.00
	14,210.00	-	7,292.00		63,320.00	-	2,278,000.00		99,230,000.00	24,600,000.00
	- 990.00	-	11,540.00		67,060.00	-	14,890,000.00	-	12,770,000.00	- 4,953,000.00
	- 990.00	-	15,790.00		63,610.00		3,954,000.00	-	12,250,000.00	- 4,953,000.00
	- 990.00	-	7,292.00		70,520.00	-	33,740,000.00	-	13,290,000.00	- 4,953,000.00
	13,220.00		0.07		67,060.00	-	85,390,000.00		89,710,000.00	20,360,000.00
	13,220.00		0.07		67,060.00	-	85,390,000.00		89,710,000.00	20,360,000.00
	13,220.00	-	4,249.00		63,610.00	-	66,540,000.00		90,230,000.00	20,360,000.00
	13,220.00		4,249.00		70,520.00	-	104,200,000.00		89,180,000.00	20,360,000.00
	13,220.00	-	11,540.00		67,060.00	-	14,890,000.00		89,710,000.00	20,000,000.00
	13,220.00	-	7,292.00		70,520.00	-	33,740,000.00		89,180,000.00	20,000,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17    Lotto 10    Codifica Documento EI2CLOC000006    Rev. A    Foglio 132 di 215

Reazioni vincolari - EQU						
Rx	Ry		N	Mx	My	Mz
N	N		N	Nmm	Nmm	Nmm
13,220.00	-	15,790.00	63,610.00	3,954,000.00	90,230,000.00	20,000,000.00
13,220.00	-	7,292.00	70,520.00	- 33,740,000.00	89,180,000.00	20,000,000.00
0.00	-	11,540.00	48,980.00	26,380,000.00	- 2,228,000.00	- 354,600.00
0.00	-	11,540.00	53,330.00	13,330,000.00	- 2,228,000.00	- 354,600.00
0.00	-	15,790.00	45,520.00	45,220,000.00	- 1,704,000.00	- 354,600.00
0.00	-	7,292.00	52,430.00	7,527,000.00	- 2,751,000.00	- 354,600.00
0.00	-	7,292.00	56,790.00	- 5,519,000.00	- 2,751,000.00	- 354,600.00
14,210.00	-	4,249.00	45,520.00	- 25,270,000.00	100,800,000.00	24,950,000.00
14,210.00	-	4,249.00	52,430.00	- 62,970,000.00	99,730,000.00	24,950,000.00
14,210.00	-	4,249.00	49,880.00	- 38,320,000.00	100,800,000.00	24,950,000.00
14,210.00	-	4,249.00	56,790.00	- 76,020,000.00	99,730,000.00	24,950,000.00
14,210.00	-	4,249.00	49,880.00	- 38,320,000.00	100,800,000.00	24,950,000.00
14,210.00	-	4,249.00	56,790.00	- 76,020,000.00	99,730,000.00	24,950,000.00
14,210.00	-	11,540.00	48,980.00	26,370,000.00	100,200,000.00	24,600,000.00
14,210.00	-	11,540.00	48,980.00	26,370,000.00	100,200,000.00	24,600,000.00
14,210.00	-	11,540.00	53,330.00	13,330,000.00	100,200,000.00	24,600,000.00
14,210.00	-	11,540.00	53,330.00	13,330,000.00	100,200,000.00	24,600,000.00
14,210.00	-	15,790.00	45,520.00	45,220,000.00	100,800,000.00	24,600,000.00
14,210.00	-	7,292.00	52,430.00	7,527,000.00	99,730,000.00	24,600,000.00
14,210.00	-	15,790.00	49,880.00	32,180,000.00	100,800,000.00	24,600,000.00
14,210.00	-	7,292.00	56,790.00	- 5,519,000.00	99,730,000.00	24,600,000.00
14,210.00	-	15,790.00	49,880.00	32,180,000.00	100,800,000.00	24,600,000.00
14,210.00	-	7,292.00	56,790.00	- 5,519,000.00	99,730,000.00	24,600,000.00
- 990.00	-	4,249.00	52,720.00	- 56,740,000.00	- 11,750,000.00	- 4,599,000.00
- 990.00	-	4,249.00	57,080.00	- 69,780,000.00	- 11,750,000.00	- 4,599,000.00
- 990.00	-	11,540.00	60,530.00	- 18,140,000.00	- 12,280,000.00	- 4,953,000.00
- 990.00	-	11,540.00	60,530.00	- 18,140,000.00	- 12,280,000.00	- 4,953,000.00
- 990.00	-	15,790.00	57,080.00	712,300.00	- 11,750,000.00	- 4,953,000.00
- 990.00	-	7,292.00	63,990.00	- 36,980,000.00	- 12,800,000.00	- 4,953,000.00
13,220.00	-	4,249.00	63,990.00	- 107,500,000.00	89,680,000.00	20,360,000.00
13,220.00	-	4,249.00	57,080.00	- 69,780,000.00	90,730,000.00	20,360,000.00
13,220.00	-	11,540.00	60,530.00	- 18,140,000.00	90,200,000.00	20,000,000.00
13,220.00	-	11,540.00	60,530.00	- 18,140,000.00	90,200,000.00	20,000,000.00
13,220.00	-	15,790.00	52,720.00	13,760,000.00	90,730,000.00	20,000,000.00
13,220.00	-	15,790.00	57,080.00	712,200.00	90,730,000.00	20,000,000.00
13,220.00	-	7,292.00	63,990.00	- 36,980,000.00	89,680,000.00	20,000,000.00
13,220.00	-	15,790.00	57,080.00	712,200.00	90,730,000.00	20,000,000.00
13,220.00	-	7,292.00	63,990.00	- 36,980,000.00	89,680,000.00	20,000,000.00
0.00	-	11,540.00	53,630.00	19,620,000.00	- 2,723,000.00	- 354,600.00
0.00	-	11,540.00	57,990.00	6,574,000.00	- 2,723,000.00	- 354,600.00
0.00	-	11,540.00	57,990.00	6,574,000.00	- 2,723,000.00	- 354,600.00
0.00	-	15,790.00	54,530.00	25,420,000.00	- 2,199,000.00	- 354,600.00
14,210.00	-	0.06	57,990.00	- 63,920,000.00	99,750,000.00	24,950,000.00
14,210.00	-	4,249.00	50,180.00	- 32,030,000.00	100,300,000.00	24,950,000.00
14,210.00	-	4,249.00	54,530.00	- 45,070,000.00	100,300,000.00	24,950,000.00
14,210.00	-	4,249.00	61,450.00	- 82,770,000.00	99,230,000.00	24,950,000.00
14,210.00	-	4,249.00	54,530.00	- 45,070,000.00	100,300,000.00	24,950,000.00
14,210.00	-	4,249.00	61,450.00	- 82,770,000.00	99,230,000.00	24,950,000.00
14,210.00	-	11,540.00	57,990.00	6,574,000.00	99,750,000.00	24,600,000.00
14,210.00	-	11,540.00	57,990.00	6,574,000.00	99,750,000.00	24,600,000.00
14,210.00	-	15,790.00	54,530.00	25,420,000.00	100,300,000.00	24,600,000.00
14,210.00	-	7,292.00	61,450.00	- 12,270,000.00	99,230,000.00	24,600,000.00
14,210.00	-	15,790.00	54,530.00	25,420,000.00	100,300,000.00	24,600,000.00
14,210.00	-	7,292.00	61,450.00	- 12,270,000.00	99,230,000.00	24,600,000.00
- 990.00	-	0.06	60,830.00	- 82,340,000.00	- 12,770,000.00	- 4,599,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 133 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	990.00		4,249.00		68,650.00	- 114,200,000.00	-	13,290,000.00	-	4,599,000.00
-	990.00	-	15,790.00		61,730.00	- 6,042,000.00	-	12,250,000.00	-	4,953,000.00
-	990.00	-	7,292.00		68,650.00	- 43,740,000.00	-	13,290,000.00	-	4,953,000.00
-	990.00	-	7,292.00		68,650.00	- 43,740,000.00	-	13,290,000.00	-	4,953,000.00
	13,220.00		0.07		60,830.00	- 82,340,000.00		89,710,000.00		20,360,000.00
	13,220.00		0.08		65,190.00	- 95,390,000.00		89,710,000.00		20,360,000.00
	13,220.00		4,249.00		68,650.00	- 114,200,000.00		89,180,000.00		20,360,000.00
	13,220.00	-	4,249.00		61,730.00	- 76,540,000.00		90,230,000.00		20,360,000.00
	13,220.00	-	11,540.00		65,190.00	- 24,890,000.00		89,710,000.00		20,000,000.00
	13,220.00	-	11,540.00		65,190.00	- 24,890,000.00		89,710,000.00		20,000,000.00
	13,220.00	-	15,790.00		57,380.00	7,004,000.00		90,230,000.00		20,000,000.00
	13,220.00	-	7,292.00		64,290.00	- 30,690,000.00		89,180,000.00		20,000,000.00
	13,220.00	-	15,790.00		57,380.00	7,004,000.00		90,230,000.00		20,000,000.00
	13,220.00	-	7,292.00		64,290.00	- 30,690,000.00		89,180,000.00		20,000,000.00
	13,220.00	-	15,790.00		61,730.00	- 6,042,000.00		90,230,000.00		20,000,000.00
	13,220.00	-	7,292.00		68,650.00	- 43,740,000.00		89,180,000.00		20,000,000.00
	13,220.00	-	15,790.00		61,730.00	- 6,042,000.00		90,230,000.00		20,000,000.00
	13,220.00	-	7,292.00		68,650.00	- 43,740,000.00		89,180,000.00		20,000,000.00
	0.00		0.04		59,560.00	- 60,220,000.00	-	2,228,000.00		27.89
	0.00	-	11,540.00		55,210.00	23,320,000.00	-	2,228,000.00	-	354,600.00
	0.00	-	11,540.00		59,560.00	10,280,000.00	-	2,228,000.00	-	354,600.00
	0.00	-	11,540.00		59,560.00	10,280,000.00	-	2,228,000.00	-	354,600.00
	0.00	-	15,790.00		51,750.00	42,170,000.00	-	1,704,000.00	-	354,600.00
	0.00	-	15,790.00		56,110.00	29,130,000.00	-	1,704,000.00	-	354,600.00
	0.00	-	7,292.00		63,020.00	- 8,570,000.00	-	2,751,000.00	-	354,600.00
	14,210.00		0.05		55,210.00	- 47,170,000.00		100,200,000.00		24,950,000.00
	14,210.00		0.06		59,560.00	- 60,220,000.00		100,200,000.00		24,950,000.00
	14,210.00		4,249.00		63,020.00	- 79,070,000.00		99,730,000.00		24,950,000.00
	14,210.00	-	11,540.00		55,210.00	23,320,000.00		100,200,000.00		24,600,000.00
	14,210.00	-	11,540.00		59,560.00	10,280,000.00		100,200,000.00		24,600,000.00
	14,210.00	-	11,540.00		59,560.00	10,280,000.00		100,200,000.00		24,600,000.00
	14,210.00	-	15,790.00		51,750.00	42,170,000.00		100,800,000.00		24,600,000.00
	14,210.00	-	15,790.00		56,110.00	29,130,000.00		100,800,000.00		24,600,000.00
	14,210.00	-	7,292.00		63,020.00	- 8,570,000.00		99,730,000.00		24,600,000.00
	14,210.00	-	15,790.00		56,110.00	29,130,000.00		100,800,000.00		24,600,000.00
	14,210.00	-	7,292.00		63,020.00	- 8,570,000.00		99,730,000.00		24,600,000.00
-	990.00		0.05		62,410.00	- 78,640,000.00	-	12,280,000.00	-	4,599,000.00
-	990.00	-	4,249.00		58,950.00	- 59,790,000.00	-	11,750,000.00	-	4,599,000.00
-	990.00	-	4,249.00		58,950.00	- 59,790,000.00	-	11,750,000.00	-	4,599,000.00
-	990.00	-	4,249.00		65,860.00	- 97,480,000.00	-	12,800,000.00	-	4,599,000.00
-	990.00	-	15,790.00		58,950.00	10,710,000.00	-	11,750,000.00	-	4,953,000.00
-	990.00	-	7,292.00		65,860.00	- 26,990,000.00	-	12,800,000.00	-	4,953,000.00
-	990.00	-	15,790.00		63,310.00	- 2,338,000.00	-	11,750,000.00	-	4,953,000.00
-	990.00	-	7,292.00		70,220.00	- 40,030,000.00	-	12,800,000.00	-	4,953,000.00
	13,220.00		0.08		66,760.00	- 91,680,000.00		90,200,000.00		20,360,000.00
	13,220.00		4,249.00		65,860.00	- 97,480,000.00		89,680,000.00		20,360,000.00
	13,220.00		4,249.00		65,860.00	- 97,480,000.00		89,680,000.00		20,360,000.00
	13,220.00	-	4,249.00		63,310.00	- 72,840,000.00		90,730,000.00		20,360,000.00
	13,220.00	-	11,540.00		66,760.00	- 21,190,000.00		90,200,000.00		20,000,000.00
	13,220.00	-	11,540.00		66,760.00	- 21,190,000.00		90,200,000.00		20,000,000.00
	13,220.00	-	15,790.00		63,310.00	- 2,338,000.00		90,730,000.00		20,000,000.00
	13,220.00	-	7,292.00		70,220.00	- 40,030,000.00		89,680,000.00		20,000,000.00
	13,220.00	-	15,790.00		63,310.00	- 2,338,000.00		90,730,000.00		20,000,000.00
	13,220.00	-	7,292.00		70,220.00	- 40,030,000.00		89,680,000.00		20,000,000.00
	0.00	-	4,249.00		56,410.00	- 35,080,000.00	-	2,199,000.00		19.72

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17    Lotto 10    Codifica Documento EI2CLOC000006    Rev. A    Foglio 134 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
0.00	-	4,249.00	56,410.00	-	35,080,000.00	-	2,199,000.00	19.87		
0.00	-	4,249.00	60,760.00	-	48,130,000.00	-	2,199,000.00	25.89		
0.00	-	4,249.00	67,670.00	-	85,820,000.00	-	3,246,000.00	36.09		
0.00	-	11,540.00	59,860.00	-	16,570,000.00	-	2,723,000.00	354,600.00		
0.00	-	11,540.00	59,860.00	-	16,570,000.00	-	2,723,000.00	354,600.00		
0.00	-	11,540.00	64,220.00	-	3,524,000.00	-	2,723,000.00	354,600.00		
0.00	-	7,292.00	63,320.00	-	2,278,000.00	-	3,246,000.00	354,600.00		
14,210.00	0.05	59,860.00	-	53,930,000.00	99,750,000.00	24,950,000.00				
14,210.00	-	4,249.00	60,760.00	-	48,130,000.00	100,300,000.00	24,950,000.00			
14,210.00	-	4,249.00	67,670.00	-	85,820,000.00	99,230,000.00	24,950,000.00			
14,210.00	-	11,540.00	64,220.00	-	3,524,000.00	99,750,000.00	24,600,000.00			
14,210.00	-	11,540.00	64,220.00	-	3,524,000.00	99,750,000.00	24,600,000.00			
14,210.00	-	15,790.00	60,760.00	-	22,370,000.00	100,300,000.00	24,600,000.00			
14,210.00	-	7,292.00	67,670.00	-	15,320,000.00	99,230,000.00	24,600,000.00			
14,210.00	-	15,790.00	60,760.00	-	22,370,000.00	100,300,000.00	24,600,000.00			
14,210.00	-	7,292.00	67,670.00	-	15,320,000.00	99,230,000.00	24,600,000.00			
-	990.00	0.06	67,060.00	-	85,390,000.00	-	12,770,000.00	4,599,000.00		
-	990.00	-	11,540.00	67,060.00	-	14,890,000.00	-	12,770,000.00	4,953,000.00	
-	990.00	-	15,790.00	67,960.00	-	9,093,000.00	-	12,250,000.00	4,953,000.00	
-	990.00	-	7,292.00	74,870.00	-	46,790,000.00	-	13,290,000.00	4,953,000.00	
13,220.00	0.08	71,420.00	-	98,440,000.00	89,710,000.00	20,360,000.00				
13,220.00	-	4,249.00	63,610.00	-	66,540,000.00	90,230,000.00	20,360,000.00			
13,220.00	-	4,249.00	63,610.00	-	66,540,000.00	90,230,000.00	20,360,000.00			
13,220.00	-	4,249.00	74,870.00	-	117,300,000.00	89,180,000.00	20,360,000.00			
13,220.00	-	4,249.00	67,960.00	-	79,590,000.00	90,230,000.00	20,360,000.00			
13,220.00	-	4,249.00	74,870.00	-	117,300,000.00	89,180,000.00	20,360,000.00			
13,220.00	-	11,540.00	71,420.00	-	27,940,000.00	89,710,000.00	20,000,000.00			
13,220.00	-	11,540.00	71,420.00	-	27,940,000.00	89,710,000.00	20,000,000.00			
13,220.00	-	15,790.00	67,960.00	-	9,093,000.00	90,230,000.00	20,000,000.00			
13,220.00	-	7,292.00	74,870.00	-	46,790,000.00	89,180,000.00	20,000,000.00			
13,220.00	-	15,790.00	67,960.00	-	9,093,000.00	90,230,000.00	20,000,000.00			
13,220.00	-	7,292.00	74,870.00	-	46,790,000.00	89,180,000.00	20,000,000.00			
0.00	4,249.00	52,430.00	-	62,970,000.00	-	2,751,000.00	25.56			
-	14,210.00	-	4,249.00	45,520.00	-	25,270,000.00	-	104,200,000.00	24,950,000.00	
-	14,210.00	4,249.00	52,430.00	-	62,970,000.00	-	105,200,000.00	24,950,000.00		
-	14,210.00	6,370.00	45,520.00	-	88,560,000.00	-	104,200,000.00	24,600,000.00		
-	990.00	10,620.00	56,180.00	-	138,900,000.00	-	12,280,000.00	4,244,000.00		
-	15,200.00	-	4,249.00	52,720.00	-	56,740,000.00	-	114,200,000.00	29,550,000.00	
-	15,200.00	4,249.00	59,630.00	-	94,430,000.00	-	115,300,000.00	29,550,000.00		
-	15,200.00	10,620.00	56,180.00	-	138,900,000.00	-	114,800,000.00	29,200,000.00		
-	15,200.00	6,370.00	52,720.00	-	120,000,000.00	-	114,200,000.00	29,200,000.00		
-	15,200.00	14,870.00	59,630.00	-	157,700,000.00	-	115,300,000.00	29,200,000.00		
0.00	0.04	53,630.00	-	50,880,000.00	-	2,723,000.00	23.56			
0.00	10,620.00	53,630.00	-	114,200,000.00	-	2,723,000.00	354,700.00			
0.00	6,370.00	50,180.00	-	95,310,000.00	-	2,199,000.00	354,700.00			
0.00	14,870.00	57,090.00	-	133,000,000.00	-	3,246,000.00	354,700.00			
-	14,210.00	-	4,249.00	50,180.00	-	32,030,000.00	-	104,700,000.00	24,950,000.00	
-	14,210.00	-	4,249.00	50,180.00	-	32,030,000.00	-	104,700,000.00	24,950,000.00	
-	14,210.00	10,620.00	53,630.00	-	114,200,000.00	-	105,200,000.00	24,600,000.00		
-	14,210.00	6,370.00	50,180.00	-	95,310,000.00	-	104,700,000.00	24,600,000.00		
-	14,210.00	14,870.00	57,090.00	-	133,000,000.00	-	105,700,000.00	24,600,000.00		
-	14,210.00	14,870.00	57,090.00	-	133,000,000.00	-	105,700,000.00	24,600,000.00		
-	15,200.00	-	4,249.00	57,380.00	-	63,490,000.00	-	114,700,000.00	29,550,000.00	
-	15,200.00	4,249.00	64,290.00	-	101,200,000.00	-	115,800,000.00	29,550,000.00		
-	15,200.00	10,620.00	60,830.00	-	145,600,000.00	-	115,200,000.00	29,200,000.00		

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 135 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	15,200.00		6,370.00		57,380.00	- 126,800,000.00	-	114,700,000.00	-	29,200,000.00
-	15,200.00		14,870.00		64,290.00	- 164,500,000.00	-	115,800,000.00	-	29,200,000.00
	0.00		10,620.00		55,210.00	- 110,500,000.00	-	2,228,000.00		354,700.00
	0.00		14,870.00		58,660.00	- 129,300,000.00	-	2,751,000.00		354,700.00
-	14,210.00	-	4,249.00		51,750.00	- 28,320,000.00	-	104,200,000.00	-	24,950,000.00
-	14,210.00		6,370.00		51,750.00	- 91,610,000.00	-	104,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		51,750.00	- 91,610,000.00	-	104,200,000.00	-	24,600,000.00
-	990.00		4,249.00		65,860.00	- 97,480,000.00	-	12,800,000.00	-	4,599,000.00
-	15,200.00	-	4,249.00		58,950.00	- 59,790,000.00	-	114,200,000.00	-	29,550,000.00
-	15,200.00		6,370.00		58,950.00	- 123,100,000.00	-	114,200,000.00	-	29,200,000.00
-	15,200.00		14,870.00		65,860.00	- 160,800,000.00	-	115,300,000.00	-	29,200,000.00
	0.00		10,620.00		59,860.00	- 117,200,000.00	-	2,723,000.00		354,700.00
	0.00		6,370.00		56,410.00	- 98,360,000.00	-	2,199,000.00		354,700.00
	0.00		14,870.00		63,320.00	- 136,100,000.00	-	3,246,000.00		354,700.00
-	14,210.00		0.03		59,860.00	- 53,930,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		56,410.00	- 35,080,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00		63,320.00	- 72,770,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00		14,870.00		63,320.00	- 136,100,000.00	-	105,700,000.00	-	24,600,000.00
-	990.00		10,620.00		67,060.00	- 148,700,000.00	-	12,770,000.00	-	4,244,000.00
-	990.00		6,370.00		63,610.00	- 129,800,000.00	-	12,250,000.00	-	4,244,000.00
-	990.00		14,870.00		70,520.00	- 167,500,000.00	-	13,290,000.00	-	4,244,000.00
-	990.00		14,870.00		70,520.00	- 167,500,000.00	-	13,290,000.00	-	4,244,000.00
-	15,200.00		0.05		67,060.00	- 85,390,000.00	-	115,200,000.00	-	29,550,000.00
-	15,200.00		0.05		67,060.00	- 85,390,000.00	-	115,200,000.00	-	29,550,000.00
-	15,200.00		10,620.00		67,060.00	- 148,700,000.00	-	115,200,000.00	-	29,200,000.00
-	15,200.00		6,370.00		63,610.00	- 129,800,000.00	-	114,700,000.00	-	29,200,000.00
	0.00		0.03		48,980.00	- 44,120,000.00	-	2,228,000.00		20.16
-	14,210.00		0.02		48,980.00	- 44,120,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		10,620.00		48,980.00	- 107,400,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00		45,520.00	- 88,560,000.00	-	104,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		52,430.00	- 126,300,000.00	-	105,200,000.00	-	24,600,000.00
-	990.00		0.05		56,180.00	- 75,590,000.00	-	12,280,000.00	-	4,599,000.00
-	990.00		14,870.00		59,630.00	- 157,700,000.00	-	12,800,000.00	-	4,244,000.00
-	15,200.00		0.04		56,180.00	- 75,590,000.00	-	114,800,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00		52,720.00	- 56,740,000.00	-	114,200,000.00	-	29,550,000.00
-	15,200.00		4,249.00		59,630.00	- 94,430,000.00	-	115,300,000.00	-	29,550,000.00
-	15,200.00		10,620.00		56,180.00	- 138,900,000.00	-	114,800,000.00	-	29,200,000.00
-	15,200.00		6,370.00		52,720.00	- 120,000,000.00	-	114,200,000.00	-	29,200,000.00
-	15,200.00		14,870.00		59,630.00	- 157,700,000.00	-	115,300,000.00	-	29,200,000.00
	0.00	-	4,249.00		50,180.00	- 32,030,000.00	-	2,199,000.00		18.31
	0.00		4,249.00		57,090.00	- 69,720,000.00	-	3,246,000.00		28.52
	0.00		4,249.00		57,090.00	- 69,720,000.00	-	3,246,000.00		28.37
	0.00		6,370.00		50,180.00	- 95,310,000.00	-	2,199,000.00		354,700.00
-	14,210.00		0.02		53,630.00	- 50,880,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		57,090.00	- 69,720,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00		10,620.00		53,630.00	- 114,200,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		50,180.00	- 95,310,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		14,870.00		57,090.00	- 133,000,000.00	-	105,700,000.00	-	24,600,000.00
-	990.00	-	4,249.00		57,380.00	- 63,490,000.00	-	12,250,000.00	-	4,599,000.00
-	990.00		4,249.00		64,290.00	- 101,200,000.00	-	13,290,000.00	-	4,599,000.00
-	990.00		10,620.00		60,830.00	- 145,600,000.00	-	12,770,000.00	-	4,244,000.00
-	990.00		6,370.00		57,380.00	- 126,800,000.00	-	12,250,000.00	-	4,244,000.00
-	990.00		14,870.00		64,290.00	- 164,500,000.00	-	13,290,000.00	-	4,244,000.00
-	15,200.00		0.04		60,830.00	- 82,340,000.00	-	115,200,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00		57,380.00	- 63,490,000.00	-	114,700,000.00	-	29,550,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 136 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	15,200.00		4,249.00		64,290.00	- 101,200,000.00	-	115,800,000.00	-	29,550,000.00
-	15,200.00		10,620.00		60,830.00	- 145,600,000.00	-	115,200,000.00	-	29,200,000.00
-	15,200.00		6,370.00		57,380.00	- 126,800,000.00	-	114,700,000.00	-	29,200,000.00
-	15,200.00		14,870.00		64,290.00	- 164,500,000.00	-	115,800,000.00	-	29,200,000.00
	0.00	-	4,249.00		51,750.00	- 28,320,000.00	-	1,704,000.00		16.47
	0.00		14,870.00		58,660.00	- 129,300,000.00	-	2,751,000.00		354,700.00
-	14,210.00		10,620.00		55,210.00	- 110,500,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		10,620.00		55,210.00	- 110,500,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00		51,750.00	- 91,610,000.00	-	104,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		58,660.00	- 129,300,000.00	-	105,200,000.00	-	24,600,000.00
-	990.00		4,249.00		65,860.00	- 97,480,000.00	-	12,800,000.00	-	4,599,000.00
-	990.00		10,620.00		62,410.00	- 141,900,000.00	-	12,280,000.00	-	4,244,000.00
-	990.00		14,870.00		65,860.00	- 160,800,000.00	-	12,800,000.00	-	4,244,000.00
-	990.00		6,370.00		58,950.00	- 123,100,000.00	-	11,750,000.00	-	4,244,000.00
-	15,200.00		0.04		62,410.00	- 78,640,000.00	-	114,800,000.00	-	29,550,000.00
-	15,200.00		4,249.00		65,860.00	- 97,480,000.00	-	115,300,000.00	-	29,550,000.00
-	15,200.00		4,249.00		65,860.00	- 97,480,000.00	-	115,300,000.00	-	29,550,000.00
-	15,200.00		10,620.00		62,410.00	- 141,900,000.00	-	114,800,000.00	-	29,200,000.00
-	15,200.00		10,620.00		62,410.00	- 141,900,000.00	-	114,800,000.00	-	29,200,000.00
-	15,200.00		6,370.00		58,950.00	- 123,100,000.00	-	114,200,000.00	-	29,200,000.00
-	15,200.00		14,870.00		65,860.00	- 160,800,000.00	-	115,300,000.00	-	29,200,000.00
-	15,200.00		6,370.00		58,950.00	- 123,100,000.00	-	114,200,000.00	-	29,200,000.00
-	15,200.00		14,870.00		65,860.00	- 160,800,000.00	-	115,300,000.00	-	29,200,000.00
	0.00		6,370.00		56,410.00	- 98,360,000.00	-	2,199,000.00		354,700.00
	0.00		14,870.00		63,320.00	- 136,100,000.00	-	3,246,000.00		354,700.00
	0.00		6,370.00		56,410.00	- 98,360,000.00	-	2,199,000.00		354,700.00
	0.00		14,870.00		63,320.00	- 136,100,000.00	-	3,246,000.00		354,700.00
-	14,210.00		0.03		59,860.00	- 53,930,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		56,410.00	- 35,080,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00		63,320.00	- 72,770,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00		10,620.00		59,860.00	- 117,200,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		56,410.00	- 98,360,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00		56,410.00	- 98,360,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		14,870.00		63,320.00	- 136,100,000.00	-	105,700,000.00	-	24,600,000.00
-	990.00	-	4,249.00		63,610.00	- 66,540,000.00	-	12,250,000.00	-	4,599,000.00
-	990.00		10,620.00		67,060.00	- 148,700,000.00	-	12,770,000.00	-	4,244,000.00
-	990.00		10,620.00		67,060.00	- 148,700,000.00	-	12,770,000.00	-	4,244,000.00
-	990.00		6,370.00		63,610.00	- 129,800,000.00	-	12,250,000.00	-	4,244,000.00
-	990.00		14,870.00		70,520.00	- 167,500,000.00	-	13,290,000.00	-	4,244,000.00
-	15,200.00		0.05		67,060.00	- 85,390,000.00	-	115,200,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00		63,610.00	- 66,540,000.00	-	114,700,000.00	-	29,550,000.00
-	15,200.00		10,620.00		67,060.00	- 148,700,000.00	-	115,200,000.00	-	29,200,000.00
-	15,200.00		6,370.00		63,610.00	- 129,800,000.00	-	114,700,000.00	-	29,200,000.00
-	15,200.00		14,870.00		70,520.00	- 167,500,000.00	-	115,800,000.00	-	29,200,000.00
	0.00		0.04		53,330.00	- 57,170,000.00	-	2,228,000.00		26.33
	0.00		4,249.00		52,430.00	- 62,970,000.00	-	2,751,000.00		25.41
	0.00	-	4,249.00		49,880.00	- 38,320,000.00	-	1,704,000.00		21.38
	0.00		4,249.00		56,790.00	- 76,020,000.00	-	2,751,000.00		31.58
	0.00		14,870.00		56,790.00	- 139,300,000.00	-	2,751,000.00		354,700.00
	0.00		14,870.00		56,790.00	- 139,300,000.00	-	2,751,000.00		354,700.00
-	14,210.00		0.02		48,980.00	- 44,120,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		0.03		53,330.00	- 57,170,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		49,880.00	- 38,320,000.00	-	104,200,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		49,880.00	- 38,320,000.00	-	104,200,000.00	-	24,950,000.00
-	14,210.00		10,620.00		48,980.00	- 107,400,000.00	-	104,700,000.00	-	24,600,000.00



<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 137 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,210.00		10,620.00		48,980.00	- 107,400,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		10,620.00		53,330.00	- 120,400,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		10,620.00		53,330.00	- 120,400,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		14,870.00		52,430.00	- 126,300,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		45,520.00	- 88,560,000.00	-	104,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		52,430.00	- 126,300,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		49,880.00	- 101,600,000.00	-	104,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		56,790.00	- 139,300,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		49,880.00	- 101,600,000.00	-	104,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		56,790.00	- 139,300,000.00	-	105,200,000.00	-	24,600,000.00
-	990.00		0.06		60,530.00	- 88,630,000.00	-	12,280,000.00	-	4,599,000.00
-	990.00	-	4,249.00		57,080.00	- 69,780,000.00	-	11,750,000.00	-	4,599,000.00
-	990.00		4,249.00		63,990.00	- 107,500,000.00	-	12,800,000.00	-	4,599,000.00
-	990.00		10,620.00		60,530.00	- 151,900,000.00	-	12,280,000.00	-	4,244,000.00
-	990.00		14,870.00		63,990.00	- 170,800,000.00	-	12,800,000.00	-	4,244,000.00
-	990.00		6,370.00		57,080.00	- 133,100,000.00	-	11,750,000.00	-	4,244,000.00
-	990.00		14,870.00		63,990.00	- 170,800,000.00	-	12,800,000.00	-	4,244,000.00
-	15,200.00		0.04		56,180.00	- 75,590,000.00	-	114,800,000.00	-	29,550,000.00
-	15,200.00		0.05		60,530.00	- 88,630,000.00	-	114,800,000.00	-	29,550,000.00
-	15,200.00		0.05		60,530.00	- 88,630,000.00	-	114,800,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00		52,720.00	- 56,740,000.00	-	114,200,000.00	-	29,550,000.00
-	15,200.00		10,620.00		56,180.00	- 138,900,000.00	-	114,800,000.00	-	29,200,000.00
-	15,200.00		10,620.00		60,530.00	- 151,900,000.00	-	114,800,000.00	-	29,200,000.00
-	15,200.00		10,620.00		60,530.00	- 151,900,000.00	-	114,800,000.00	-	29,200,000.00
-	15,200.00		6,370.00		52,720.00	- 120,000,000.00	-	114,200,000.00	-	29,200,000.00
-	15,200.00		14,870.00		59,630.00	- 157,700,000.00	-	115,300,000.00	-	29,200,000.00
-	15,200.00		6,370.00		57,080.00	- 133,100,000.00	-	114,200,000.00	-	29,200,000.00
-	15,200.00		14,870.00		63,990.00	- 170,800,000.00	-	115,300,000.00	-	29,200,000.00
-	15,200.00		6,370.00		57,080.00	- 133,100,000.00	-	114,200,000.00	-	29,200,000.00
-	15,200.00		14,870.00		63,990.00	- 170,800,000.00	-	115,300,000.00	-	29,200,000.00
	0.00		0.05		57,990.00	- 63,920,000.00	-	2,723,000.00		29.58
	0.00	-	4,249.00		54,530.00	- 45,070,000.00	-	2,199,000.00		24.33
	0.00		4,249.00		61,450.00	- 82,770,000.00	-	3,246,000.00		34.54
	0.00	-	4,249.00		54,530.00	- 45,070,000.00	-	2,199,000.00		24.48
	0.00		4,249.00		61,450.00	- 82,770,000.00	-	3,246,000.00		34.69
	0.00		6,370.00		54,530.00	- 108,400,000.00	-	2,199,000.00		354,700.00
-	14,210.00		0.02		53,630.00	- 50,880,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		0.03		57,990.00	- 63,920,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		54,530.00	- 45,070,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		10,620.00		53,630.00	- 114,200,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		10,620.00		57,990.00	- 127,200,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		10,620.00		57,990.00	- 127,200,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		50,180.00	- 95,310,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00		54,530.00	- 108,400,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		14,870.00		61,450.00	- 146,100,000.00	-	105,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00		54,530.00	- 108,400,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		14,870.00		61,450.00	- 146,100,000.00	-	105,700,000.00	-	24,600,000.00
-	990.00		0.07		65,190.00	- 95,390,000.00	-	12,770,000.00	-	4,599,000.00
-	990.00		10,620.00		65,190.00	- 158,700,000.00	-	12,770,000.00	-	4,244,000.00
-	990.00		10,620.00		65,190.00	- 158,700,000.00	-	12,770,000.00	-	4,244,000.00
-	990.00		6,370.00		57,380.00	- 126,800,000.00	-	12,250,000.00	-	4,244,000.00
-	990.00		6,370.00		57,380.00	- 126,800,000.00	-	12,250,000.00	-	4,244,000.00
-	990.00		14,870.00		64,290.00	- 164,500,000.00	-	13,290,000.00	-	4,244,000.00
-	990.00		6,370.00		61,730.00	- 139,800,000.00	-	12,250,000.00	-	4,244,000.00
-	990.00		14,870.00		68,650.00	- 177,500,000.00	-	13,290,000.00	-	4,244,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 138 di 215

Reazioni vincolari - EQU											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	990.00		6,370.00		61,730.00	-	139,800,000.00	-	12,250,000.00	-	4,244,000.00
-	990.00		14,870.00		68,650.00	-	177,500,000.00	-	13,290,000.00	-	4,244,000.00
-	15,200.00	-	4,249.00		61,730.00	-	76,540,000.00	-	114,700,000.00	-	29,550,000.00
-	15,200.00		10,620.00		60,830.00	-	145,600,000.00	-	115,200,000.00	-	29,200,000.00
-	15,200.00		10,620.00		65,190.00	-	158,700,000.00	-	115,200,000.00	-	29,200,000.00
-	15,200.00		10,620.00		65,190.00	-	158,700,000.00	-	115,200,000.00	-	29,200,000.00
-	15,200.00		6,370.00		57,380.00	-	126,800,000.00	-	114,700,000.00	-	29,200,000.00
-	15,200.00		14,870.00		64,290.00	-	164,500,000.00	-	115,800,000.00	-	29,200,000.00
-	15,200.00		6,370.00		61,730.00	-	139,800,000.00	-	114,700,000.00	-	29,200,000.00
-	15,200.00		14,870.00		68,650.00	-	177,500,000.00	-	115,800,000.00	-	29,200,000.00
-	15,200.00		6,370.00		61,730.00	-	139,800,000.00	-	114,700,000.00	-	29,200,000.00
-	15,200.00		14,870.00		68,650.00	-	177,500,000.00	-	115,800,000.00	-	29,200,000.00
	0.00	-	4,249.00		56,110.00	-	41,370,000.00	-	1,704,000.00		22.64
	0.00	-	4,249.00		56,110.00	-	41,370,000.00	-	1,704,000.00		22.78
	0.00		10,620.00		59,560.00	-	123,500,000.00	-	2,228,000.00		354,700.00
	0.00		6,370.00		51,750.00	-	91,610,000.00	-	1,704,000.00		354,700.00
	0.00		14,870.00		58,660.00	-	129,300,000.00	-	2,751,000.00		354,700.00
	0.00		6,370.00		56,110.00	-	104,700,000.00	-	1,704,000.00		354,700.00
-	14,210.00		0.03		59,560.00	-	60,220,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		56,110.00	-	41,370,000.00	-	104,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		63,020.00	-	79,070,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		63,020.00	-	79,070,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		10,620.00		55,210.00	-	110,500,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		10,620.00		59,560.00	-	123,500,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		10,620.00		59,560.00	-	123,500,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		14,870.00		58,660.00	-	129,300,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		58,660.00	-	129,300,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		56,110.00	-	104,700,000.00	-	104,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		63,020.00	-	142,300,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		56,110.00	-	104,700,000.00	-	104,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		63,020.00	-	142,300,000.00	-	105,200,000.00	-	24,600,000.00
-	990.00		0.06		66,760.00	-	91,680,000.00	-	12,280,000.00	-	4,599,000.00
-	990.00		10,620.00		66,760.00	-	155,000,000.00	-	12,280,000.00	-	4,244,000.00
-	990.00		10,620.00		66,760.00	-	155,000,000.00	-	12,280,000.00	-	4,244,000.00
-	15,200.00		4,249.00		70,220.00	-	110,500,000.00	-	115,300,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00		63,310.00	-	72,830,000.00	-	114,200,000.00	-	29,550,000.00
-	15,200.00		4,249.00		70,220.00	-	110,500,000.00	-	115,300,000.00	-	29,550,000.00
-	15,200.00		10,620.00		62,410.00	-	141,900,000.00	-	114,800,000.00	-	29,200,000.00
-	15,200.00		10,620.00		66,760.00	-	155,000,000.00	-	114,800,000.00	-	29,200,000.00
-	15,200.00		10,620.00		66,760.00	-	155,000,000.00	-	114,800,000.00	-	29,200,000.00
-	15,200.00		6,370.00		63,310.00	-	136,100,000.00	-	114,200,000.00	-	29,200,000.00
-	15,200.00		14,870.00		70,220.00	-	173,800,000.00	-	115,300,000.00	-	29,200,000.00
-	15,200.00		6,370.00		63,310.00	-	136,100,000.00	-	114,200,000.00	-	29,200,000.00
-	15,200.00		14,870.00		70,220.00	-	173,800,000.00	-	115,300,000.00	-	29,200,000.00
	0.00		0.05		64,220.00	-	66,970,000.00	-	2,723,000.00		30.99
	0.00		4,249.00		67,670.00	-	85,820,000.00	-	3,246,000.00		35.95
	0.00		10,620.00		64,220.00	-	130,300,000.00	-	2,723,000.00		354,700.00
-	14,210.00		0.03		59,860.00	-	53,930,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		0.03		64,220.00	-	66,970,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		56,410.00	-	35,080,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00		63,320.00	-	72,770,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		60,760.00	-	48,130,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00		67,670.00	-	85,820,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00		10,620.00		59,860.00	-	117,200,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		10,620.00		59,860.00	-	117,200,000.00	-	105,200,000.00	-	24,600,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto <b>IN17</b>	Lotto <b>10</b>	Codifica Documento <b>EI2CLOC000006</b>	Rev. <b>A</b>	Foglio <b>139 di 215</b>

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,210.00		10,620.00		64,220.00	- 130,300,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		10,620.00		64,220.00	- 130,300,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		56,410.00	- 98,360,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		14,870.00		63,320.00	- 136,100,000.00	-	105,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00		60,760.00	- 111,400,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		14,870.00		67,670.00	- 149,100,000.00	-	105,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00		60,760.00	- 111,400,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		14,870.00		67,670.00	- 149,100,000.00	-	105,700,000.00	-	24,600,000.00
-	990.00	-	4,249.00		63,610.00	- 66,540,000.00	-	12,250,000.00	-	4,599,000.00
-	990.00		4,249.00		70,520.00	- 104,200,000.00	-	13,290,000.00	-	4,599,000.00
-	990.00		4,249.00		74,870.00	- 117,300,000.00	-	13,290,000.00	-	4,599,000.00
-	990.00	-	4,249.00		67,960.00	- 79,590,000.00	-	12,250,000.00	-	4,599,000.00
-	990.00		4,249.00		74,870.00	- 117,300,000.00	-	13,290,000.00	-	4,599,000.00
-	990.00		10,620.00		71,420.00	- 161,700,000.00	-	12,770,000.00	-	4,244,000.00
-	990.00		10,620.00		71,420.00	- 161,700,000.00	-	12,770,000.00	-	4,244,000.00
-	990.00		6,370.00		63,610.00	- 129,800,000.00	-	12,250,000.00	-	4,244,000.00
-	990.00		6,370.00		67,960.00	- 142,900,000.00	-	12,250,000.00	-	4,244,000.00
-	990.00		14,870.00		74,870.00	- 180,600,000.00	-	13,290,000.00	-	4,244,000.00
-	990.00		6,370.00		67,960.00	- 142,900,000.00	-	12,250,000.00	-	4,244,000.00
-	15,200.00		0.05		71,420.00	- 98,440,000.00	-	115,200,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00		67,960.00	- 79,590,000.00	-	114,700,000.00	-	29,550,000.00
-	15,200.00		4,249.00		74,870.00	- 117,300,000.00	-	115,800,000.00	-	29,550,000.00
-	15,200.00		10,620.00		67,060.00	- 148,700,000.00	-	115,200,000.00	-	29,200,000.00
-	15,200.00		10,620.00		71,420.00	- 161,700,000.00	-	115,200,000.00	-	29,200,000.00
-	15,200.00		10,620.00		71,420.00	- 161,700,000.00	-	115,200,000.00	-	29,200,000.00
-	15,200.00		6,370.00		63,610.00	- 129,800,000.00	-	114,700,000.00	-	29,200,000.00
-	15,200.00		14,870.00		70,520.00	- 167,500,000.00	-	115,800,000.00	-	29,200,000.00
-	15,200.00		14,870.00		70,520.00	- 167,500,000.00	-	115,800,000.00	-	29,200,000.00
-	15,200.00		6,370.00		67,960.00	- 142,900,000.00	-	114,700,000.00	-	29,200,000.00
-	15,200.00		14,870.00		74,870.00	- 180,600,000.00	-	115,800,000.00	-	29,200,000.00
-	15,200.00		6,370.00		67,960.00	- 142,900,000.00	-	114,700,000.00	-	29,200,000.00
-	15,200.00		14,870.00		74,870.00	- 180,600,000.00	-	115,800,000.00	-	29,200,000.00
	0.00	-	7,292.00		52,430.00	7,527,000.00	-	2,751,000.00	-	354,600.00
-	14,210.00		0.02		48,980.00	- 44,120,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		45,520.00	- 25,270,000.00	-	104,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		52,430.00	- 62,970,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		48,980.00	26,380,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00		48,980.00	26,380,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		45,520.00	45,220,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		52,430.00	7,527,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		45,520.00	45,220,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		52,430.00	7,527,000.00	-	105,200,000.00	-	25,310,000.00
-	990.00	-	11,540.00		56,180.00	- 5,089,000.00	-	12,280,000.00	-	4,953,000.00
-	990.00	-	15,790.00		52,720.00	13,760,000.00	-	11,750,000.00	-	4,953,000.00
-	15,200.00		0.04		56,180.00	- 75,590,000.00	-	114,800,000.00	-	29,550,000.00
-	15,200.00	-	11,540.00		56,180.00	- 5,089,000.00	-	114,800,000.00	-	29,910,000.00
-	15,200.00	-	11,540.00		56,180.00	- 5,089,000.00	-	114,800,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00		52,720.00	13,760,000.00	-	114,200,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		59,630.00	- 23,940,000.00	-	115,300,000.00	-	29,910,000.00
	0.00	-	7,292.00		57,090.00	772,800.00	-	3,246,000.00	-	354,600.00
	0.00	-	15,790.00		50,180.00	38,470,000.00	-	2,199,000.00	-	354,600.00
-	14,210.00		0.02		53,630.00	- 50,880,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		57,090.00	- 69,720,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		53,630.00	19,620,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		57,090.00	772,900.00	-	105,700,000.00	-	25,310,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 140 di 215

Reazioni vincolari - EQU											
Rx	N	Ry	N	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	990.00	-	11,540.00		60,830.00	-	11,840,000.00	-	12,770,000.00	-	4,953,000.00
-	990.00	-	15,790.00		57,380.00		7,004,000.00	-	12,250,000.00	-	4,953,000.00
-	990.00	-	15,790.00		57,380.00		7,004,000.00	-	12,250,000.00	-	4,953,000.00
-	990.00	-	7,292.00		64,290.00	-	30,690,000.00	-	13,290,000.00	-	4,953,000.00
-	15,200.00		0.04		60,830.00	-	82,340,000.00	-	115,200,000.00	-	29,550,000.00
-	15,200.00		0.04		60,830.00	-	82,340,000.00	-	115,200,000.00	-	29,550,000.00
-	15,200.00	-	11,540.00		60,830.00	-	11,840,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		64,290.00	-	30,690,000.00	-	115,800,000.00	-	29,910,000.00
	0.00	-	4,249.00		51,750.00	-	28,320,000.00	-	1,704,000.00		16.62
	0.00		4,249.00		58,660.00	-	66,020,000.00	-	2,751,000.00		26.82
-	14,210.00	-	15,790.00		51,750.00		42,170,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		51,750.00		42,170,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		58,660.00		4,477,000.00	-	105,200,000.00	-	25,310,000.00
-	990.00	-	15,790.00		58,950.00		10,710,000.00	-	11,750,000.00	-	4,953,000.00
-	990.00	-	7,292.00		65,860.00	-	26,990,000.00	-	12,800,000.00	-	4,953,000.00
-	15,200.00		0.04		62,410.00	-	78,640,000.00	-	114,800,000.00	-	29,550,000.00
-	15,200.00		0.04		62,410.00	-	78,640,000.00	-	114,800,000.00	-	29,550,000.00
-	15,200.00	-	11,540.00		62,410.00	-	8,139,000.00	-	114,800,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00		58,950.00		10,710,000.00	-	114,200,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		65,860.00	-	26,990,000.00	-	115,300,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		65,860.00	-	26,990,000.00	-	115,300,000.00	-	29,910,000.00
	0.00		4,249.00		63,320.00	-	72,770,000.00	-	3,246,000.00		29.93
-	14,210.00	-	15,790.00		56,410.00		35,420,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		56,410.00		35,420,000.00	-	104,700,000.00	-	25,310,000.00
-	990.00		0.06		67,060.00	-	85,390,000.00	-	12,770,000.00	-	4,599,000.00
-	990.00	-	7,292.00		70,520.00	-	33,740,000.00	-	13,290,000.00	-	4,953,000.00
-	15,200.00		4,249.00		70,520.00	-	104,200,000.00	-	115,800,000.00	-	29,550,000.00
-	15,200.00	-	11,540.00		67,060.00	-	14,890,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00	-	11,540.00		67,060.00	-	14,890,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		70,520.00	-	33,740,000.00	-	115,800,000.00	-	29,910,000.00
	0.00		4,249.00		52,430.00	-	62,970,000.00	-	2,751,000.00		25.27
	0.00	-	7,292.00		52,430.00		7,527,000.00	-	2,751,000.00	-	354,600.00
-	14,210.00	-	4,249.00		45,520.00	-	25,270,000.00	-	104,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		52,430.00	-	62,970,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		48,980.00		26,380,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		45,520.00		45,220,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		52,430.00		7,527,000.00	-	105,200,000.00	-	25,310,000.00
-	990.00	-	11,540.00		56,180.00	-	5,089,000.00	-	12,280,000.00	-	4,953,000.00
-	990.00	-	15,790.00		52,720.00		13,760,000.00	-	11,750,000.00	-	4,953,000.00
-	990.00	-	15,790.00		52,720.00		13,760,000.00	-	11,750,000.00	-	4,953,000.00
-	990.00	-	7,292.00		59,630.00	-	23,940,000.00	-	12,800,000.00	-	4,953,000.00
-	15,200.00	-	11,540.00		56,180.00	-	5,089,000.00	-	114,800,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00		52,720.00		13,760,000.00	-	114,200,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		59,630.00	-	23,940,000.00	-	115,300,000.00	-	29,910,000.00
	0.00	-	4,249.00		50,180.00	-	32,030,000.00	-	2,199,000.00		18.17
	0.00	-	15,790.00		50,180.00		38,470,000.00	-	2,199,000.00	-	354,600.00
	0.00	-	15,790.00		50,180.00		38,470,000.00	-	2,199,000.00	-	354,600.00
-	14,210.00	-	4,249.00		50,180.00	-	32,030,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00		57,090.00	-	69,720,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		53,630.00		19,620,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00		53,630.00		19,620,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		50,180.00		38,470,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		57,090.00		772,900.00	-	105,700,000.00	-	25,310,000.00
-	990.00	-	4,249.00		57,380.00	-	63,490,000.00	-	12,250,000.00	-	4,599,000.00
-	990.00	-	11,540.00		60,830.00	-	11,840,000.00	-	12,770,000.00	-	4,953,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 141 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	15,200.00	-	4,249.00	57,380.00	-	63,490,000.00	-	114,700,000.00	-	29,550,000.00
-	15,200.00		4,249.00	64,290.00	-	101,200,000.00	-	115,800,000.00	-	29,550,000.00
-	15,200.00	-	11,540.00	60,830.00	-	11,840,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00	-	11,540.00	60,830.00	-	11,840,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00	57,380.00		7,004,000.00	-	114,700,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00	64,290.00	-	30,690,000.00	-	115,800,000.00	-	29,910,000.00
	0.00		0.03	55,210.00	-	47,170,000.00	-	2,228,000.00		21.57
	0.00	-	11,540.00	55,210.00		23,320,000.00	-	2,228,000.00	-	354,600.00
	0.00	-	15,790.00	51,750.00		42,170,000.00	-	1,704,000.00	-	354,600.00
	0.00	-	7,292.00	58,660.00		4,477,000.00	-	2,751,000.00	-	354,600.00
-	14,210.00		0.02	55,210.00	-	47,170,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00	51,750.00	-	28,320,000.00	-	104,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00	58,660.00	-	66,020,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00	51,750.00	-	28,320,000.00	-	104,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00	58,660.00	-	66,020,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00	55,210.00		23,320,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00	55,210.00		23,320,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	51,750.00		42,170,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	58,660.00		4,477,000.00	-	105,200,000.00	-	25,310,000.00
-	990.00		0.05	62,410.00	-	78,640,000.00	-	12,280,000.00	-	4,599,000.00
-	990.00	-	11,540.00	62,410.00	-	8,140,000.00	-	12,280,000.00	-	4,953,000.00
-	990.00	-	7,292.00	65,860.00	-	26,990,000.00	-	12,800,000.00	-	4,953,000.00
-	15,200.00	-	4,249.00	58,950.00	-	59,790,000.00	-	114,200,000.00	-	29,550,000.00
-	15,200.00	-	11,540.00	62,410.00	-	8,139,000.00	-	114,800,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00	58,950.00		10,710,000.00	-	114,200,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00	65,860.00	-	26,990,000.00	-	115,300,000.00	-	29,910,000.00
	0.00	-	4,249.00	56,410.00	-	35,080,000.00	-	2,199,000.00		19.57
	0.00	-	11,540.00	59,860.00		16,570,000.00	-	2,723,000.00	-	354,600.00
	0.00	-	15,790.00	56,410.00		35,420,000.00	-	2,199,000.00	-	354,600.00
-	14,210.00	-	11,540.00	59,860.00		16,570,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00	59,860.00		16,570,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	63,320.00	-	2,278,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	56,410.00		35,420,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	63,320.00	-	2,278,000.00	-	105,700,000.00	-	25,310,000.00
-	990.00		0.06	67,060.00	-	85,390,000.00	-	12,770,000.00	-	4,599,000.00
-	990.00		4,249.00	70,520.00	-	104,200,000.00	-	13,290,000.00	-	4,599,000.00
-	990.00	-	11,540.00	67,060.00	-	14,890,000.00	-	12,770,000.00	-	4,953,000.00
-	990.00	-	15,790.00	63,610.00		3,954,000.00	-	12,250,000.00	-	4,953,000.00
-	15,200.00	-	4,249.00	63,610.00	-	66,540,000.00	-	114,700,000.00	-	29,550,000.00
-	15,200.00		4,249.00	70,520.00	-	104,200,000.00	-	115,800,000.00	-	29,550,000.00
-	15,200.00	-	11,540.00	67,060.00	-	14,890,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00	63,610.00		3,954,000.00	-	114,700,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00	70,520.00	-	33,740,000.00	-	115,800,000.00	-	29,910,000.00
	0.00		0.03	48,980.00	-	44,120,000.00	-	2,228,000.00		20.46
	0.00	-	4,249.00	45,520.00	-	25,270,000.00	-	1,704,000.00		15.35
	0.00		4,249.00	56,790.00	-	76,020,000.00	-	2,751,000.00		31.43
	0.00	-	11,540.00	53,330.00		13,330,000.00	-	2,228,000.00	-	354,600.00
	0.00	-	15,790.00	49,880.00		32,180,000.00	-	1,704,000.00	-	354,600.00
	0.00	-	7,292.00	56,790.00	-	5,519,000.00	-	2,751,000.00	-	354,600.00
	0.00	-	15,790.00	49,880.00		32,180,000.00	-	1,704,000.00	-	354,600.00
-	14,210.00		0.03	53,330.00	-	57,170,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00	56,790.00	-	76,020,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00	56,790.00	-	76,020,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00	53,330.00		13,330,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00	53,330.00		13,330,000.00	-	104,700,000.00	-	25,310,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE			
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>	Progetto <b>IN17</b>	Lotto <b>10</b>	Codifica Documento <b>EI2CLOC000006</b>	Rev. <b>A</b>	Foglio <b>142 di 215</b>

Reazioni vincolari - EQU										
<b>Rx</b>	<b>N</b>	<b>Ry</b>	<b>N</b>	<b>N</b>	<b>Mx</b>	<b>Nmm</b>	<b>My</b>	<b>Nmm</b>	<b>Mz</b>	<b>Nmm</b>
-	14,210.00	-	15,790.00		49,880.00	32,180,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		56,790.00	- 5,519,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		49,880.00	32,180,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		56,790.00	- 5,519,000.00	-	105,200,000.00	-	25,310,000.00
-	990.00		0.06		60,530.00	- 88,630,000.00	-	12,280,000.00	-	4,599,000.00
-	990.00	-	11,540.00		56,180.00	- 5,089,000.00	-	12,280,000.00	-	4,953,000.00
-	990.00	-	7,292.00		59,630.00	- 23,940,000.00	-	12,800,000.00	-	4,953,000.00
-	990.00	-	15,790.00		57,080.00	712,300.00	-	11,750,000.00	-	4,953,000.00
-	990.00	-	7,292.00		63,990.00	- 36,980,000.00	-	12,800,000.00	-	4,953,000.00
-	15,200.00		4,249.00		59,630.00	- 94,430,000.00	-	115,300,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00		57,080.00	- 69,780,000.00	-	114,200,000.00	-	29,550,000.00
-	15,200.00		4,249.00		63,990.00	- 107,500,000.00	-	115,300,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00		57,080.00	- 69,780,000.00	-	114,200,000.00	-	29,550,000.00
-	15,200.00		4,249.00		63,990.00	- 107,500,000.00	-	115,300,000.00	-	29,550,000.00
-	15,200.00	-	11,540.00		60,530.00	- 18,140,000.00	-	114,800,000.00	-	29,910,000.00
-	15,200.00	-	11,540.00		60,530.00	- 18,140,000.00	-	114,800,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00		52,720.00	13,760,000.00	-	114,200,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		59,630.00	- 23,940,000.00	-	115,300,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00		57,080.00	712,400.00	-	114,200,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		63,990.00	- 36,980,000.00	-	115,300,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00		57,080.00	712,400.00	-	114,200,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		63,990.00	- 36,980,000.00	-	115,300,000.00	-	29,910,000.00
	0.00		0.05		57,990.00	- 63,920,000.00	-	2,723,000.00		29.44
	0.00	-	11,540.00		53,630.00	19,620,000.00	-	2,723,000.00	-	354,600.00
	0.00	-	7,292.00		57,090.00	772,800.00	-	3,246,000.00	-	354,600.00
	0.00	-	7,292.00		61,450.00	- 12,270,000.00	-	3,246,000.00	-	354,600.00
	0.00	-	15,790.00		54,530.00	25,420,000.00	-	2,199,000.00	-	354,600.00
	0.00	-	7,292.00		61,450.00	- 12,270,000.00	-	3,246,000.00	-	354,600.00
-	14,210.00		0.03		57,990.00	- 63,920,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		54,530.00	- 45,070,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00		61,450.00	- 82,770,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00		61,450.00	- 82,770,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		57,990.00	6,574,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00		57,990.00	6,574,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		50,180.00	38,470,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		57,090.00	772,900.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		50,180.00	38,470,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		54,530.00	25,420,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		61,450.00	- 12,270,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		54,530.00	25,420,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		61,450.00	- 12,270,000.00	-	105,700,000.00	-	25,310,000.00
-	990.00	-	4,249.00		61,730.00	- 76,540,000.00	-	12,250,000.00	-	4,599,000.00
-	990.00		4,249.00		68,650.00	- 114,200,000.00	-	13,290,000.00	-	4,599,000.00
-	990.00	-	11,540.00		65,190.00	- 24,890,000.00	-	12,770,000.00	-	4,953,000.00
-	990.00	-	11,540.00		65,190.00	- 24,890,000.00	-	12,770,000.00	-	4,953,000.00
-	990.00	-	15,790.00		61,730.00	- 6,042,000.00	-	12,250,000.00	-	4,953,000.00
-	15,200.00		0.05		65,190.00	- 95,390,000.00	-	115,200,000.00	-	29,550,000.00
-	15,200.00		0.05		65,190.00	- 95,390,000.00	-	115,200,000.00	-	29,550,000.00
-	15,200.00		4,249.00		68,650.00	- 114,200,000.00	-	115,800,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00		61,730.00	- 76,540,000.00	-	114,700,000.00	-	29,550,000.00
-	15,200.00		4,249.00		68,650.00	- 114,200,000.00	-	115,800,000.00	-	29,550,000.00
-	15,200.00	-	11,540.00		65,190.00	- 24,890,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00	-	11,540.00		65,190.00	- 24,890,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00		57,380.00	7,004,000.00	-	114,700,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		64,290.00	- 30,690,000.00	-	115,800,000.00	-	29,910,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 143 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	15,200.00	-	15,790.00		57,380.00	7,004,000.00	-	114,700,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00		61,730.00	- 6,042,000.00	-	114,700,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		68,650.00	- 43,740,000.00	-	115,800,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00		61,730.00	- 6,042,000.00	-	114,700,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		68,650.00	- 43,740,000.00	-	115,800,000.00	-	29,910,000.00
	0.00		0.04		59,560.00	- 60,220,000.00	-	2,228,000.00		27.74
	0.00	-	4,249.00		51,750.00	- 28,320,000.00	-	1,704,000.00		16.76
	0.00		4,249.00		63,020.00	- 79,070,000.00	-	2,751,000.00		32.84
	0.00		4,249.00		63,020.00	- 79,070,000.00	-	2,751,000.00		32.99
	0.00	-	15,790.00		51,750.00	42,170,000.00	-	1,704,000.00	-	354,600.00
	0.00	-	7,292.00		58,660.00	4,477,000.00	-	2,751,000.00	-	354,600.00
	0.00	-	15,790.00		56,110.00	29,130,000.00	-	1,704,000.00	-	354,600.00
	0.00	-	7,292.00		63,020.00	- 8,570,000.00	-	2,751,000.00	-	354,600.00
-	14,210.00		0.02		55,210.00	- 47,170,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		0.02		55,210.00	- 47,170,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		0.03		59,560.00	- 60,220,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00		58,660.00	- 66,020,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		56,110.00	- 41,370,000.00	-	104,200,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		55,210.00	23,320,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00		59,560.00	10,280,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00		59,560.00	10,280,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		58,660.00	4,477,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		56,110.00	29,130,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		63,020.00	- 8,569,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		56,110.00	29,130,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		63,020.00	- 8,569,000.00	-	105,200,000.00	-	25,310,000.00
-	990.00		0.05		62,410.00	- 78,640,000.00	-	12,280,000.00	-	4,599,000.00
-	990.00	-	4,249.00		63,310.00	- 72,840,000.00	-	11,750,000.00	-	4,599,000.00
-	990.00		4,249.00		70,220.00	- 110,500,000.00	-	12,800,000.00	-	4,599,000.00
-	990.00	-	4,249.00		63,310.00	- 72,840,000.00	-	11,750,000.00	-	4,599,000.00
-	990.00		4,249.00		70,220.00	- 110,500,000.00	-	12,800,000.00	-	4,599,000.00
-	990.00	-	11,540.00		66,760.00	- 21,190,000.00	-	12,280,000.00	-	4,953,000.00
-	990.00	-	11,540.00		66,760.00	- 21,190,000.00	-	12,280,000.00	-	4,953,000.00
-	990.00	-	15,790.00		63,310.00	- 2,338,000.00	-	11,750,000.00	-	4,953,000.00
-	990.00	-	7,292.00		70,220.00	- 40,030,000.00	-	12,800,000.00	-	4,953,000.00
-	15,200.00		0.05		66,760.00	- 91,680,000.00	-	114,800,000.00	-	29,550,000.00
-	15,200.00		0.05		66,760.00	- 91,680,000.00	-	114,800,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00		58,950.00	- 59,790,000.00	-	114,200,000.00	-	29,550,000.00
-	15,200.00		4,249.00		65,860.00	- 97,480,000.00	-	115,300,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00		63,310.00	- 72,830,000.00	-	114,200,000.00	-	29,550,000.00
-	15,200.00	-	11,540.00		62,410.00	- 8,139,000.00	-	114,800,000.00	-	29,910,000.00
-	15,200.00	-	11,540.00		66,760.00	- 21,190,000.00	-	114,800,000.00	-	29,910,000.00
-	15,200.00	-	11,540.00		66,760.00	- 21,190,000.00	-	114,800,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00		58,950.00	10,710,000.00	-	114,200,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00		63,310.00	- 2,338,000.00	-	114,200,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		70,220.00	- 40,030,000.00	-	115,300,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00		63,310.00	- 2,338,000.00	-	114,200,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00		70,220.00	- 40,030,000.00	-	115,300,000.00	-	29,910,000.00
	0.00		0.04		59,860.00	- 53,930,000.00	-	2,723,000.00		24.97
	0.00		0.05		64,220.00	- 66,970,000.00	-	2,723,000.00		30.84
	0.00	-	4,249.00		60,760.00	- 48,130,000.00	-	2,199,000.00		25.74
	0.00	-	11,540.00		64,220.00	3,524,000.00	-	2,723,000.00	-	354,600.00
	0.00	-	15,790.00		56,410.00	35,420,000.00	-	2,199,000.00	-	354,600.00
	0.00	-	7,292.00		63,320.00	- 2,278,000.00	-	3,246,000.00	-	354,600.00
	0.00	-	15,790.00		60,760.00	22,370,000.00	-	2,199,000.00	-	354,600.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 144 di 215

Reazioni vincolari - EQU										
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>					
0.00	-	7,292.00	67,670.00	-	15,320,000.00	-	354,600.00			
0.00	-	15,790.00	60,760.00		22,370,000.00	-	354,600.00			
0.00	-	7,292.00	67,670.00	-	15,320,000.00	-	354,600.00			
-	14,210.00	0.03	64,220.00	-	66,970,000.00	-	24,950,000.00			
-	14,210.00	-	4,249.00	60,760.00	-	48,130,000.00	-	24,950,000.00		
-	14,210.00	-	4,249.00	67,670.00	-	85,820,000.00	-	24,950,000.00		
-	14,210.00	-	11,540.00	59,860.00	-	16,570,000.00	-	105,200,000.00		
-	14,210.00	-	11,540.00	64,220.00	-	3,524,000.00	-	105,200,000.00		
-	14,210.00	-	11,540.00	64,220.00	-	3,524,000.00	-	105,200,000.00		
-	14,210.00	-	7,292.00	63,320.00	-	2,278,000.00	-	105,700,000.00		
-	14,210.00	-	15,790.00	60,760.00	-	22,370,000.00	-	104,700,000.00		
-	14,210.00	-	7,292.00	67,670.00	-	15,320,000.00	-	105,700,000.00		
-	14,210.00	-	15,790.00	60,760.00	-	22,370,000.00	-	104,700,000.00		
-	14,210.00	-	7,292.00	67,670.00	-	15,320,000.00	-	105,700,000.00		
-	990.00	0.07	71,420.00	-	98,440,000.00	-	12,770,000.00	-	4,599,000.00	
-	990.00	0.07	71,420.00	-	98,440,000.00	-	12,770,000.00	-	4,599,000.00	
-	990.00	-	4,249.00	63,610.00	-	66,540,000.00	-	12,250,000.00	-	4,599,000.00
-	990.00	-	4,249.00	67,960.00	-	79,590,000.00	-	12,250,000.00	-	4,599,000.00
-	990.00	-	11,540.00	71,420.00	-	27,940,000.00	-	12,770,000.00	-	4,953,000.00
-	990.00	-	11,540.00	71,420.00	-	27,940,000.00	-	12,770,000.00	-	4,953,000.00
-	990.00	-	7,292.00	70,520.00	-	33,740,000.00	-	13,290,000.00	-	4,953,000.00
-	990.00	-	15,790.00	63,610.00	-	3,954,000.00	-	12,250,000.00	-	4,953,000.00
-	990.00	-	15,790.00	67,960.00	-	9,093,000.00	-	12,250,000.00	-	4,953,000.00
-	990.00	-	7,292.00	74,870.00	-	46,790,000.00	-	13,290,000.00	-	4,953,000.00
-	15,200.00	0.06	71,420.00	-	98,440,000.00	-	115,200,000.00	-	29,550,000.00	
-	15,200.00	-	4,249.00	63,610.00	-	66,540,000.00	-	114,700,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00	70,520.00	-	104,200,000.00	-	115,800,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00	74,870.00	-	117,300,000.00	-	115,800,000.00	-	29,550,000.00
-	15,200.00	-	4,249.00	67,960.00	-	79,590,000.00	-	114,700,000.00	-	29,550,000.00
-	15,200.00	-	11,540.00	71,420.00	-	27,940,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00	-	11,540.00	71,420.00	-	27,940,000.00	-	115,200,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00	63,610.00	-	3,954,000.00	-	114,700,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00	63,610.00	-	3,954,000.00	-	114,700,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00	70,520.00	-	33,740,000.00	-	115,800,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00	67,960.00	-	9,092,000.00	-	114,700,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00	74,870.00	-	46,790,000.00	-	115,800,000.00	-	29,910,000.00
-	15,200.00	-	15,790.00	67,960.00	-	9,092,000.00	-	114,700,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00	74,870.00	-	46,790,000.00	-	115,800,000.00	-	29,910,000.00
-	15,200.00	-	7,292.00	74,870.00	-	46,790,000.00	-	115,800,000.00	-	29,910,000.00
-	23,680.00	-	4,249.00	45,520.00	-	25,270,000.00	-	172,500,000.00	-	41,590,000.00
-	23,680.00	-	10,620.00	48,980.00	-	107,400,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00	-	6,370.00	45,520.00	-	88,560,000.00	-	172,500,000.00	-	41,240,000.00
-	23,680.00	-	6,370.00	45,520.00	-	88,560,000.00	-	172,500,000.00	-	41,240,000.00
-	693.00	0.05	54,020.00	-	66,150,000.00	-	9,261,000.00	-	3,219,000.00	
-	693.00	-	6,370.00	50,560.00	-	110,600,000.00	-	8,737,000.00	-	2,864,000.00
-	693.00	-	6,370.00	50,560.00	-	110,600,000.00	-	8,737,000.00	-	2,864,000.00
-	693.00	-	14,870.00	57,470.00	-	148,300,000.00	-	9,784,000.00	-	2,864,000.00
-	24,370.00	-	4,249.00	50,560.00	-	47,300,000.00	-	179,500,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00	57,470.00	-	84,990,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00	-	10,620.00	54,020.00	-	129,400,000.00	-	180,100,000.00	-	44,450,000.00
-	24,370.00	-	14,870.00	57,470.00	-	148,300,000.00	-	180,600,000.00	-	44,450,000.00
-	693.00	-	4,249.00	62,130.00	-	91,750,000.00	-	10,280,000.00	-	3,219,000.00
-	693.00	-	6,370.00	55,220.00	-	117,300,000.00	-	9,232,000.00	-	2,864,000.00
-	693.00	-	14,870.00	62,130.00	-	155,000,000.00	-	10,280,000.00	-	2,864,000.00
-	693.00	-	14,870.00	62,130.00	-	155,000,000.00	-	10,280,000.00	-	2,864,000.00
-	24,370.00	-	4,249.00	62,130.00	-	91,750,000.00	-	181,100,000.00	-	44,810,000.00



<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 145 di 215

Reazioni vincolari - EQU											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	24,370.00		4,249.00		62,130.00	-	91,750,000.00	-	181,100,000.00	-	44,810,000.00
-	24,370.00		6,370.00		55,220.00	-	117,300,000.00	-	180,000,000.00	-	44,450,000.00
-	24,370.00		14,870.00		62,130.00	-	155,000,000.00	-	181,100,000.00	-	44,450,000.00
-	23,680.00	-	4,249.00		51,750.00	-	28,320,000.00	-	172,500,000.00	-	41,590,000.00
-	23,680.00		10,620.00		55,210.00	-	110,500,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00		14,870.00		58,660.00	-	129,300,000.00	-	173,500,000.00	-	41,240,000.00
-	693.00		0.05		60,250.00	-	69,200,000.00	-	9,261,000.00	-	3,219,000.00
-	693.00		14,870.00		63,700.00	-	151,300,000.00	-	9,784,000.00	-	2,864,000.00
-	24,370.00		0.03		60,250.00	-	69,200,000.00	-	180,100,000.00	-	44,810,000.00
-	24,370.00		14,870.00		63,700.00	-	151,300,000.00	-	180,600,000.00	-	44,450,000.00
-	24,370.00		6,370.00		56,790.00	-	113,600,000.00	-	179,500,000.00	-	44,450,000.00
-	23,680.00		10,620.00		59,860.00	-	117,200,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		6,370.00		56,410.00	-	98,360,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00		6,370.00		56,410.00	-	98,360,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00		14,870.00		63,320.00	-	136,100,000.00	-	174,000,000.00	-	41,240,000.00
-	693.00	-	4,249.00		61,450.00	-	57,100,000.00	-	9,232,000.00	-	3,219,000.00
-	693.00		10,620.00		64,900.00	-	139,200,000.00	-	9,756,000.00	-	2,864,000.00
-	24,370.00		0.03		64,900.00	-	75,950,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		61,450.00	-	57,100,000.00	-	180,000,000.00	-	44,810,000.00
-	24,370.00		4,249.00		68,360.00	-	94,800,000.00	-	181,100,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		61,450.00	-	57,100,000.00	-	180,000,000.00	-	44,810,000.00
-	24,370.00		10,620.00		64,900.00	-	139,200,000.00	-	180,600,000.00	-	44,450,000.00
-	24,370.00		10,620.00		64,900.00	-	139,200,000.00	-	180,600,000.00	-	44,450,000.00
-	24,370.00		6,370.00		61,450.00	-	120,400,000.00	-	180,000,000.00	-	44,450,000.00
-	24,370.00		14,870.00		68,360.00	-	158,100,000.00	-	181,100,000.00	-	44,450,000.00
-	23,680.00		4,249.00		52,430.00	-	62,970,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00		10,620.00		48,980.00	-	107,400,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00		6,370.00		45,520.00	-	88,560,000.00	-	172,500,000.00	-	41,240,000.00
-	23,680.00		14,870.00		52,430.00	-	126,300,000.00	-	173,500,000.00	-	41,240,000.00
-	693.00	-	4,249.00		50,560.00	-	47,300,000.00	-	8,737,000.00	-	3,219,000.00
-	693.00		4,249.00		57,470.00	-	84,990,000.00	-	9,784,000.00	-	3,219,000.00
-	693.00		10,620.00		54,020.00	-	129,400,000.00	-	9,261,000.00	-	2,864,000.00
-	693.00		6,370.00		50,560.00	-	110,600,000.00	-	8,737,000.00	-	2,864,000.00
-	693.00		14,870.00		57,470.00	-	148,300,000.00	-	9,784,000.00	-	2,864,000.00
-	24,370.00		10,620.00		54,020.00	-	129,400,000.00	-	180,100,000.00	-	44,450,000.00
-	24,370.00		14,870.00		57,470.00	-	148,300,000.00	-	180,600,000.00	-	44,450,000.00
-	24,370.00		6,370.00		50,560.00	-	110,600,000.00	-	179,500,000.00	-	44,450,000.00
-	24,370.00		14,870.00		57,470.00	-	148,300,000.00	-	180,600,000.00	-	44,450,000.00
-	23,680.00		10,620.00		53,630.00	-	114,200,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		10,620.00		53,630.00	-	114,200,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		6,370.00		50,180.00	-	95,310,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00		14,870.00		57,090.00	-	133,000,000.00	-	174,000,000.00	-	41,240,000.00
-	23,680.00		6,370.00		50,180.00	-	95,310,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00		14,870.00		57,090.00	-	133,000,000.00	-	174,000,000.00	-	41,240,000.00
-	693.00	-	4,249.00		55,220.00	-	54,050,000.00	-	9,232,000.00	-	3,219,000.00
-	693.00	-	4,249.00		55,220.00	-	54,050,000.00	-	9,232,000.00	-	3,219,000.00
-	693.00		10,620.00		58,670.00	-	136,200,000.00	-	9,756,000.00	-	2,864,000.00
-	693.00		6,370.00		55,220.00	-	117,300,000.00	-	9,232,000.00	-	2,864,000.00
-	693.00		14,870.00		62,130.00	-	155,000,000.00	-	10,280,000.00	-	2,864,000.00
-	24,370.00		0.03		58,670.00	-	72,900,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		55,220.00	-	54,050,000.00	-	180,000,000.00	-	44,810,000.00
-	24,370.00		10,620.00		58,670.00	-	136,200,000.00	-	180,600,000.00	-	44,450,000.00
-	24,370.00		6,370.00		55,220.00	-	117,300,000.00	-	180,000,000.00	-	44,450,000.00
-	24,370.00		14,870.00		62,130.00	-	155,000,000.00	-	181,100,000.00	-	44,450,000.00
-	24,370.00		6,370.00		55,220.00	-	117,300,000.00	-	180,000,000.00	-	44,450,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 146 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	24,370.00		14,870.00		62,130.00	- 155,000,000.00	-	181,100,000.00	-	44,450,000.00
-	23,680.00	-	4,249.00		51,750.00	- 28,320,000.00	-	172,500,000.00	-	41,590,000.00
-	23,680.00		4,249.00		58,660.00	- 66,020,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00		10,620.00		55,210.00	- 110,500,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00		10,620.00		55,210.00	- 110,500,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00		6,370.00		51,750.00	- 91,610,000.00	-	172,500,000.00	-	41,240,000.00
-	23,680.00		14,870.00		58,660.00	- 129,300,000.00	-	173,500,000.00	-	41,240,000.00
-	693.00		0.05		60,250.00	- 69,200,000.00	-	9,261,000.00	-	3,219,000.00
-	693.00		0.05		60,250.00	- 69,200,000.00	-	9,261,000.00	-	3,219,000.00
-	693.00	-	4,249.00		56,790.00	- 50,350,000.00	-	8,737,000.00	-	3,219,000.00
-	693.00		4,249.00		63,700.00	- 88,050,000.00	-	9,784,000.00	-	3,219,000.00
-	693.00	-	4,249.00		56,790.00	- 50,350,000.00	-	8,737,000.00	-	3,219,000.00
-	693.00		4,249.00		63,700.00	- 88,050,000.00	-	9,784,000.00	-	3,219,000.00
-	693.00		10,620.00		60,250.00	- 132,500,000.00	-	9,261,000.00	-	2,864,000.00
-	693.00		6,370.00		56,790.00	- 113,600,000.00	-	8,737,000.00	-	2,864,000.00
-	693.00		6,370.00		56,790.00	- 113,600,000.00	-	8,737,000.00	-	2,864,000.00
-	693.00		14,870.00		63,700.00	- 151,300,000.00	-	9,784,000.00	-	2,864,000.00
-	24,370.00		0.03		60,250.00	- 69,200,000.00	-	180,100,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		56,790.00	- 50,350,000.00	-	179,500,000.00	-	44,810,000.00
-	24,370.00		4,249.00		63,700.00	- 88,040,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00		10,620.00		60,250.00	- 132,500,000.00	-	180,100,000.00	-	44,450,000.00
-	24,370.00		6,370.00		56,790.00	- 113,600,000.00	-	179,500,000.00	-	44,450,000.00
-	24,370.00		14,870.00		63,700.00	- 151,300,000.00	-	180,600,000.00	-	44,450,000.00
-	23,680.00		0.02		59,860.00	- 53,930,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		56,410.00	- 35,080,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00		4,249.00		63,320.00	- 72,770,000.00	-	174,000,000.00	-	41,590,000.00
-	23,680.00		10,620.00		59,860.00	- 117,200,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		6,370.00		56,410.00	- 98,360,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00		14,870.00		63,320.00	- 136,100,000.00	-	174,000,000.00	-	41,240,000.00
-	693.00	-	4,249.00		61,450.00	- 57,100,000.00	-	9,232,000.00	-	3,219,000.00
-	693.00		4,249.00		68,360.00	- 94,800,000.00	-	10,280,000.00	-	3,219,000.00
-	693.00		10,620.00		64,900.00	- 139,200,000.00	-	9,756,000.00	-	2,864,000.00
-	693.00		10,620.00		64,900.00	- 139,200,000.00	-	9,756,000.00	-	2,864,000.00
-	693.00		6,370.00		61,450.00	- 120,400,000.00	-	9,232,000.00	-	2,864,000.00
-	693.00		14,870.00		68,360.00	- 158,100,000.00	-	10,280,000.00	-	2,864,000.00
-	24,370.00		0.03		64,900.00	- 75,950,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		61,450.00	- 57,100,000.00	-	180,000,000.00	-	44,810,000.00
-	24,370.00		10,620.00		64,900.00	- 139,200,000.00	-	180,600,000.00	-	44,450,000.00
-	24,370.00		6,370.00		61,450.00	- 120,400,000.00	-	180,000,000.00	-	44,450,000.00
-	24,370.00		14,870.00		68,360.00	- 158,100,000.00	-	181,100,000.00	-	44,450,000.00
-	23,680.00		0.02		53,330.00	- 57,170,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		49,880.00	- 38,320,000.00	-	172,500,000.00	-	41,590,000.00
-	23,680.00		4,249.00		56,790.00	- 76,020,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		49,880.00	- 38,320,000.00	-	172,500,000.00	-	41,590,000.00
-	23,680.00		10,620.00		48,980.00	- 107,400,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00		10,620.00		53,330.00	- 120,400,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00		10,620.00		53,330.00	- 120,400,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00		14,870.00		52,430.00	- 126,300,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		14,870.00		52,430.00	- 126,300,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		6,370.00		49,880.00	- 101,600,000.00	-	172,500,000.00	-	41,240,000.00
-	23,680.00		14,870.00		56,790.00	- 139,300,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		6,370.00		49,880.00	- 101,600,000.00	-	172,500,000.00	-	41,240,000.00
-	23,680.00		14,870.00		56,790.00	- 139,300,000.00	-	173,500,000.00	-	41,240,000.00
-	693.00		0.05		54,020.00	- 66,150,000.00	-	9,261,000.00	-	3,219,000.00
-	693.00		0.06		58,370.00	- 79,190,000.00	-	9,261,000.00	-	3,219,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>	<b>Progetto</b> IN17	<b>Lotto</b> 10	<b>Codifica Documento</b> EI2CLOC000006	<b>Rev.</b> A	<b>Foglio</b> 147 di 215

Reazioni vincolari - EQU											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	693.00		0.06		58,370.00	-	79,190,000.00	-	9,261,000.00	-	3,219,000.00
-	693.00	-	4,249.00		54,920.00	-	60,350,000.00	-	8,737,000.00	-	3,219,000.00
-	693.00		10,620.00		54,020.00	-	129,400,000.00	-	9,261,000.00	-	2,864,000.00
-	693.00		10,620.00		54,020.00	-	129,400,000.00	-	9,261,000.00	-	2,864,000.00
-	693.00		10,620.00		58,370.00	-	142,500,000.00	-	9,261,000.00	-	2,864,000.00
-	693.00		10,620.00		58,370.00	-	142,500,000.00	-	9,261,000.00	-	2,864,000.00
-	693.00		14,870.00		57,470.00	-	148,300,000.00	-	9,784,000.00	-	2,864,000.00
-	693.00		6,370.00		54,920.00	-	123,600,000.00	-	8,737,000.00	-	2,864,000.00
-	693.00		14,870.00		61,830.00	-	161,300,000.00	-	9,784,000.00	-	2,864,000.00
-	693.00		6,370.00		54,920.00	-	123,600,000.00	-	8,737,000.00	-	2,864,000.00
-	693.00		14,870.00		61,830.00	-	161,300,000.00	-	9,784,000.00	-	2,864,000.00
-	24,370.00		0.03		58,370.00	-	79,190,000.00	-	180,100,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		54,920.00	-	60,350,000.00	-	179,500,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		54,920.00	-	60,350,000.00	-	179,500,000.00	-	44,810,000.00
-	24,370.00		4,249.00		61,830.00	-	98,040,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00		10,620.00		54,020.00	-	129,400,000.00	-	180,100,000.00	-	44,450,000.00
-	24,370.00		10,620.00		58,370.00	-	142,500,000.00	-	180,100,000.00	-	44,450,000.00
-	24,370.00		10,620.00		58,370.00	-	142,500,000.00	-	180,100,000.00	-	44,450,000.00
-	24,370.00		6,370.00		50,560.00	-	110,600,000.00	-	179,500,000.00	-	44,450,000.00
-	24,370.00		6,370.00		50,560.00	-	110,600,000.00	-	179,500,000.00	-	44,450,000.00
-	24,370.00		6,370.00		54,920.00	-	123,600,000.00	-	179,500,000.00	-	44,450,000.00
-	24,370.00		14,870.00		61,830.00	-	161,300,000.00	-	180,600,000.00	-	44,450,000.00
-	24,370.00		6,370.00		54,920.00	-	123,600,000.00	-	179,500,000.00	-	44,450,000.00
-	24,370.00		14,870.00		61,830.00	-	161,300,000.00	-	180,600,000.00	-	44,450,000.00
-	23,680.00		0.02		57,990.00	-	63,920,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		54,530.00	-	45,070,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		54,530.00	-	45,070,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00		4,249.00		61,450.00	-	82,770,000.00	-	174,000,000.00	-	41,590,000.00
-	23,680.00		10,620.00		53,630.00	-	114,200,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		10,620.00		57,990.00	-	127,200,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		10,620.00		57,990.00	-	127,200,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		6,370.00		50,180.00	-	95,310,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00		14,870.00		57,090.00	-	133,000,000.00	-	174,000,000.00	-	41,240,000.00
-	23,680.00		6,370.00		54,530.00	-	108,400,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00		14,870.00		61,450.00	-	146,100,000.00	-	174,000,000.00	-	41,240,000.00
-	23,680.00		6,370.00		54,530.00	-	108,400,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00		14,870.00		61,450.00	-	146,100,000.00	-	174,000,000.00	-	41,240,000.00
-	693.00		0.06		63,030.00	-	85,950,000.00	-	9,756,000.00	-	3,219,000.00
-	693.00	-	4,249.00		55,220.00	-	54,050,000.00	-	9,232,000.00	-	3,219,000.00
-	693.00	-	4,249.00		59,570.00	-	67,100,000.00	-	9,232,000.00	-	3,219,000.00
-	693.00		4,249.00		66,490.00	-	104,800,000.00	-	10,280,000.00	-	3,219,000.00
-	693.00		10,620.00		58,670.00	-	136,200,000.00	-	9,756,000.00	-	2,864,000.00
-	693.00		10,620.00		58,670.00	-	136,200,000.00	-	9,756,000.00	-	2,864,000.00
-	693.00		10,620.00		63,030.00	-	149,200,000.00	-	9,756,000.00	-	2,864,000.00
-	693.00		10,620.00		63,030.00	-	149,200,000.00	-	9,756,000.00	-	2,864,000.00
-	693.00		6,370.00		55,220.00	-	117,300,000.00	-	9,232,000.00	-	2,864,000.00
-	693.00		6,370.00		59,570.00	-	130,400,000.00	-	9,232,000.00	-	2,864,000.00
-	693.00		14,870.00		66,490.00	-	168,100,000.00	-	10,280,000.00	-	2,864,000.00
-	693.00		6,370.00		59,570.00	-	130,400,000.00	-	9,232,000.00	-	2,864,000.00
-	693.00		14,870.00		66,490.00	-	168,100,000.00	-	10,280,000.00	-	2,864,000.00
-	24,370.00		0.04		63,030.00	-	85,950,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00		0.04		63,030.00	-	85,950,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		59,570.00	-	67,100,000.00	-	180,000,000.00	-	44,810,000.00
-	24,370.00		4,249.00		66,490.00	-	104,800,000.00	-	181,100,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		59,570.00	-	67,100,000.00	-	180,000,000.00	-	44,810,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE					
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Progetto IN17</td> <td style="width: 15%;">Lotto 10</td> <td style="width: 40%;">Codifica Documento EI2CLOC000006</td> <td style="width: 10%;">Rev. A</td> <td style="width: 15%;">Foglio 148 di 215</td> </tr> </table>	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 148 di 215
Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 148 di 215		

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	24,370.00		4,249.00		66,490.00	- 104,800,000.00	-	181,100,000.00	-	44,810,000.00
-	24,370.00		10,620.00		58,670.00	- 136,200,000.00	-	180,600,000.00	-	44,450,000.00
-	24,370.00		10,620.00		58,670.00	- 136,200,000.00	-	180,600,000.00	-	44,450,000.00
-	24,370.00		10,620.00		63,030.00	- 149,200,000.00	-	180,600,000.00	-	44,450,000.00
-	24,370.00		10,620.00		63,030.00	- 149,200,000.00	-	180,600,000.00	-	44,450,000.00
-	24,370.00		6,370.00		59,570.00	- 130,400,000.00	-	180,000,000.00	-	44,450,000.00
-	24,370.00		14,870.00		66,490.00	- 168,100,000.00	-	181,100,000.00	-	44,450,000.00
-	24,370.00		6,370.00		59,570.00	- 130,400,000.00	-	180,000,000.00	-	44,450,000.00
-	24,370.00		14,870.00		66,490.00	- 168,100,000.00	-	181,100,000.00	-	44,450,000.00
-	23,680.00		0.01		55,210.00	- 47,170,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00		0.02		59,560.00	- 60,220,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00		0.02		59,560.00	- 60,220,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00		4,249.00		58,660.00	- 66,020,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		56,110.00	- 41,370,000.00	-	172,500,000.00	-	41,590,000.00
-	23,680.00		4,249.00		63,020.00	- 79,070,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00		4,249.00		63,020.00	- 79,070,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00		10,620.00		59,560.00	- 123,500,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00		10,620.00		59,560.00	- 123,500,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00		6,370.00		51,750.00	- 91,610,000.00	-	172,500,000.00	-	41,240,000.00
-	23,680.00		14,870.00		58,660.00	- 129,300,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		6,370.00		51,750.00	- 91,610,000.00	-	172,500,000.00	-	41,240,000.00
-	23,680.00		6,370.00		56,110.00	- 104,700,000.00	-	172,500,000.00	-	41,240,000.00
-	23,680.00		14,870.00		63,020.00	- 142,300,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		6,370.00		56,110.00	- 104,700,000.00	-	172,500,000.00	-	41,240,000.00
-	23,680.00		14,870.00		63,020.00	- 142,300,000.00	-	173,500,000.00	-	41,240,000.00
-	693.00		0.06		64,600.00	- 82,240,000.00	-	9,261,000.00	-	3,219,000.00
-	693.00	-	4,249.00		61,150.00	- 63,400,000.00	-	8,737,000.00	-	3,219,000.00
-	693.00	-	4,249.00		61,150.00	- 63,400,000.00	-	8,737,000.00	-	3,219,000.00
-	693.00		4,249.00		68,060.00	- 101,100,000.00	-	9,784,000.00	-	3,219,000.00
-	693.00		10,620.00		60,250.00	- 132,500,000.00	-	9,261,000.00	-	2,864,000.00
-	693.00		10,620.00		60,250.00	- 132,500,000.00	-	9,261,000.00	-	2,864,000.00
-	693.00		10,620.00		64,600.00	- 145,500,000.00	-	9,261,000.00	-	2,864,000.00
-	693.00		10,620.00		64,600.00	- 145,500,000.00	-	9,261,000.00	-	2,864,000.00
-	693.00		14,870.00		63,700.00	- 151,300,000.00	-	9,784,000.00	-	2,864,000.00
-	693.00		6,370.00		56,790.00	- 113,600,000.00	-	8,737,000.00	-	2,864,000.00
-	693.00		6,370.00		61,150.00	- 126,700,000.00	-	8,737,000.00	-	2,864,000.00
-	693.00		14,870.00		68,060.00	- 164,400,000.00	-	9,784,000.00	-	2,864,000.00
-	693.00		6,370.00		61,150.00	- 126,700,000.00	-	8,737,000.00	-	2,864,000.00
-	693.00		14,870.00		68,060.00	- 164,400,000.00	-	9,784,000.00	-	2,864,000.00
-	24,370.00	-	4,249.00		56,790.00	- 50,350,000.00	-	179,500,000.00	-	44,810,000.00
-	24,370.00		4,249.00		63,700.00	- 88,040,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		61,150.00	- 63,400,000.00	-	179,500,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		61,150.00	- 63,400,000.00	-	179,500,000.00	-	44,810,000.00
-	24,370.00		4,249.00		68,060.00	- 101,100,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00		10,620.00		60,250.00	- 132,500,000.00	-	180,100,000.00	-	44,450,000.00
-	24,370.00		10,620.00		60,250.00	- 132,500,000.00	-	180,100,000.00	-	44,450,000.00
-	24,370.00		10,620.00		64,600.00	- 145,500,000.00	-	180,100,000.00	-	44,450,000.00
-	24,370.00		10,620.00		64,600.00	- 145,500,000.00	-	180,100,000.00	-	44,450,000.00
-	24,370.00		6,370.00		56,790.00	- 113,600,000.00	-	179,500,000.00	-	44,450,000.00
-	24,370.00		14,870.00		63,700.00	- 151,300,000.00	-	180,600,000.00	-	44,450,000.00
-	24,370.00		6,370.00		61,150.00	- 126,700,000.00	-	179,500,000.00	-	44,450,000.00
-	24,370.00		14,870.00		68,060.00	- 164,400,000.00	-	180,600,000.00	-	44,450,000.00
-	24,370.00		6,370.00		61,150.00	- 126,700,000.00	-	179,500,000.00	-	44,450,000.00
-	24,370.00		14,870.00		68,060.00	- 164,400,000.00	-	180,600,000.00	-	44,450,000.00
-	23,680.00		0.03		64,220.00	- 66,970,000.00	-	173,500,000.00	-	41,590,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 149 di 215

Reazioni vincolari - EQU											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	23,680.00		4,249.00		63,320.00	-	72,770,000.00	-	174,000,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		60,760.00	-	48,130,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00		10,620.00		59,860.00	-	117,200,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		10,620.00		64,220.00	-	130,300,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		10,620.00		64,220.00	-	130,300,000.00	-	173,500,000.00	-	41,240,000.00
-	23,680.00		14,870.00		63,320.00	-	136,100,000.00	-	174,000,000.00	-	41,240,000.00
-	23,680.00		6,370.00		60,760.00	-	111,400,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00		14,870.00		67,670.00	-	149,100,000.00	-	174,000,000.00	-	41,240,000.00
-	23,680.00		6,370.00		60,760.00	-	111,400,000.00	-	173,000,000.00	-	41,240,000.00
-	23,680.00		14,870.00		67,670.00	-	149,100,000.00	-	174,000,000.00	-	41,240,000.00
-	693.00		0.06		69,260.00	-	89,000,000.00	-	9,756,000.00	-	3,219,000.00
-	693.00	-	4,249.00		65,800.00	-	70,150,000.00	-	9,232,000.00	-	3,219,000.00
-	693.00		4,249.00		72,710.00	-	107,800,000.00	-	10,280,000.00	-	3,219,000.00
-	693.00		10,620.00		69,260.00	-	152,300,000.00	-	9,756,000.00	-	2,864,000.00
-	693.00		10,620.00		69,260.00	-	152,300,000.00	-	9,756,000.00	-	2,864,000.00
-	693.00		6,370.00		61,450.00	-	120,400,000.00	-	9,232,000.00	-	2,864,000.00
-	693.00		14,870.00		68,360.00	-	158,100,000.00	-	10,280,000.00	-	2,864,000.00
-	693.00		6,370.00		61,450.00	-	120,400,000.00	-	9,232,000.00	-	2,864,000.00
-	693.00		14,870.00		68,360.00	-	158,100,000.00	-	10,280,000.00	-	2,864,000.00
-	693.00		6,370.00		65,800.00	-	133,400,000.00	-	9,232,000.00	-	2,864,000.00
-	693.00		14,870.00		72,710.00	-	171,100,000.00	-	10,280,000.00	-	2,864,000.00
-	693.00		6,370.00		65,800.00	-	133,400,000.00	-	9,232,000.00	-	2,864,000.00
-	693.00		14,870.00		72,710.00	-	171,100,000.00	-	10,280,000.00	-	2,864,000.00
-	24,370.00		0.03		64,900.00	-	75,950,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00		0.04		69,260.00	-	89,000,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00		0.04		69,260.00	-	89,000,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00		4,249.00		72,710.00	-	107,800,000.00	-	181,100,000.00	-	44,810,000.00
-	24,370.00		10,620.00		69,260.00	-	152,300,000.00	-	180,600,000.00	-	44,450,000.00
-	24,370.00		10,620.00		69,260.00	-	152,300,000.00	-	180,600,000.00	-	44,450,000.00
-	24,370.00		6,370.00		61,450.00	-	120,400,000.00	-	180,000,000.00	-	44,450,000.00
-	24,370.00		14,870.00		68,360.00	-	158,100,000.00	-	181,100,000.00	-	44,450,000.00
-	24,370.00		6,370.00		65,800.00	-	133,400,000.00	-	180,000,000.00	-	44,450,000.00
-	24,370.00		14,870.00		72,710.00	-	171,100,000.00	-	181,100,000.00	-	44,450,000.00
-	24,370.00		6,370.00		65,800.00	-	133,400,000.00	-	180,000,000.00	-	44,450,000.00
-	24,370.00		14,870.00		72,710.00	-	171,100,000.00	-	181,100,000.00	-	44,450,000.00
-	23,680.00		0.01		48,980.00	-	44,120,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00	-	11,540.00		48,980.00	-	26,380,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		52,430.00	-	7,527,000.00	-	173,500,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		52,430.00	-	7,527,000.00	-	173,500,000.00	-	41,950,000.00
-	693.00		4,249.00		57,470.00	-	84,990,000.00	-	9,784,000.00	-	3,219,000.00
-	693.00	-	7,292.00		57,470.00	-	14,500,000.00	-	9,784,000.00	-	3,574,000.00
-	693.00	-	15,790.00		50,560.00	-	23,200,000.00	-	8,737,000.00	-	3,574,000.00
-	693.00	-	7,292.00		57,470.00	-	14,500,000.00	-	9,784,000.00	-	3,574,000.00
-	24,370.00		0.02		54,020.00	-	66,150,000.00	-	180,100,000.00	-	44,810,000.00
-	24,370.00		0.02		54,020.00	-	66,150,000.00	-	180,100,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		50,560.00	-	47,300,000.00	-	179,500,000.00	-	44,810,000.00
-	24,370.00		4,249.00		57,470.00	-	84,990,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00	-	11,540.00		54,020.00	-	4,350,000.00	-	180,100,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		57,470.00	-	14,500,000.00	-	180,600,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		50,560.00	-	23,200,000.00	-	179,500,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		57,470.00	-	14,500,000.00	-	180,600,000.00	-	45,160,000.00
-	23,680.00		0.01		53,630.00	-	50,880,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		50,180.00	-	32,030,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00		4,249.00		57,090.00	-	69,720,000.00	-	174,000,000.00	-	41,590,000.00
-	23,680.00	-	11,540.00		53,630.00	-	19,620,000.00	-	173,500,000.00	-	41,950,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 150 di 215

Reazioni vincolari - EQU											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	693.00		0.05		58,670.00	-	72,900,000.00	-	9,756,000.00	-	3,219,000.00
-	693.00		4,249.00		62,130.00	-	91,750,000.00	-	10,280,000.00	-	3,219,000.00
-	693.00	-	7,292.00		62,130.00	-	21,250,000.00	-	10,280,000.00	-	3,574,000.00
-	24,370.00	-	4,249.00		55,220.00	-	54,050,000.00	-	180,000,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		55,220.00	-	54,050,000.00	-	180,000,000.00	-	44,810,000.00
-	24,370.00	-	11,540.00		58,670.00	-	2,404,000.00	-	180,600,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		62,130.00	-	21,250,000.00	-	181,100,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		62,130.00	-	21,250,000.00	-	181,100,000.00	-	45,160,000.00
-	23,680.00		0.01		55,210.00	-	47,170,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00	-	11,540.00		55,210.00	-	23,320,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		58,660.00	-	4,477,000.00	-	173,500,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		58,660.00	-	4,477,000.00	-	173,500,000.00	-	41,950,000.00
-	693.00	-	4,249.00		56,790.00	-	50,350,000.00	-	8,737,000.00	-	3,219,000.00
-	693.00		4,249.00		63,700.00	-	88,050,000.00	-	9,784,000.00	-	3,219,000.00
-	693.00	-	11,540.00		60,250.00	-	1,300,000.00	-	9,261,000.00	-	3,574,000.00
-	693.00	-	15,790.00		56,790.00	-	20,150,000.00	-	8,737,000.00	-	3,574,000.00
-	693.00	-	7,292.00		63,700.00	-	17,550,000.00	-	9,784,000.00	-	3,574,000.00
-	24,370.00	-	15,790.00		56,790.00	-	20,150,000.00	-	179,500,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		63,700.00	-	17,550,000.00	-	180,600,000.00	-	45,160,000.00
-	693.00		0.05		64,900.00	-	75,950,000.00	-	9,756,000.00	-	3,219,000.00
-	693.00	-	11,540.00		64,900.00	-	5,455,000.00	-	9,756,000.00	-	3,574,000.00
-	693.00	-	11,540.00		64,900.00	-	5,455,000.00	-	9,756,000.00	-	3,574,000.00
-	693.00	-	15,790.00		61,450.00	-	13,390,000.00	-	9,232,000.00	-	3,574,000.00
-	693.00	-	7,292.00		68,360.00	-	24,300,000.00	-	10,280,000.00	-	3,574,000.00
-	693.00	-	15,790.00		61,450.00	-	13,390,000.00	-	9,232,000.00	-	3,574,000.00
-	693.00	-	7,292.00		68,360.00	-	24,300,000.00	-	10,280,000.00	-	3,574,000.00
-	24,370.00	-	11,540.00		64,900.00	-	5,455,000.00	-	180,600,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		61,450.00	-	13,390,000.00	-	180,000,000.00	-	45,160,000.00
-	23,680.00		0.01		48,980.00	-	44,120,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		45,520.00	-	25,270,000.00	-	172,500,000.00	-	41,590,000.00
-	23,680.00	-	11,540.00		48,980.00	-	26,380,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		45,520.00	-	45,220,000.00	-	172,500,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		52,430.00	-	7,527,000.00	-	173,500,000.00	-	41,950,000.00
-	693.00		0.05		54,020.00	-	66,150,000.00	-	9,261,000.00	-	3,219,000.00
-	693.00	-	11,540.00		54,020.00	-	4,350,000.00	-	9,261,000.00	-	3,574,000.00
-	693.00	-	15,790.00		50,560.00	-	23,200,000.00	-	8,737,000.00	-	3,574,000.00
-	693.00	-	7,292.00		57,470.00	-	14,500,000.00	-	9,784,000.00	-	3,574,000.00
-	24,370.00		0.02		54,020.00	-	66,150,000.00	-	180,100,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		50,560.00	-	47,300,000.00	-	179,500,000.00	-	44,810,000.00
-	24,370.00		4,249.00		57,470.00	-	84,990,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00	-	11,540.00		54,020.00	-	4,350,000.00	-	180,100,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		50,560.00	-	23,200,000.00	-	179,500,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		57,470.00	-	14,500,000.00	-	180,600,000.00	-	45,160,000.00
-	23,680.00		0.01		53,630.00	-	50,880,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		50,180.00	-	32,030,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00		4,249.00		57,090.00	-	69,720,000.00	-	174,000,000.00	-	41,590,000.00
-	23,680.00	-	11,540.00		53,630.00	-	19,620,000.00	-	173,500,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		50,180.00	-	38,470,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		57,090.00	-	773,000.00	-	174,000,000.00	-	41,950,000.00
-	693.00		0.05		58,670.00	-	72,900,000.00	-	9,756,000.00	-	3,219,000.00
-	693.00		0.05		58,670.00	-	72,900,000.00	-	9,756,000.00	-	3,219,000.00
-	693.00		4,249.00		62,130.00	-	91,750,000.00	-	10,280,000.00	-	3,219,000.00
-	693.00	-	11,540.00		58,670.00	-	2,404,000.00	-	9,756,000.00	-	3,574,000.00
-	693.00	-	15,790.00		55,220.00	-	16,440,000.00	-	9,232,000.00	-	3,574,000.00
-	693.00	-	7,292.00		62,130.00	-	21,250,000.00	-	10,280,000.00	-	3,574,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 151 di 215

Reazioni vincolari - EQU											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	24,370.00		4,249.00		62,130.00	-	91,750,000.00	-	181,100,000.00	-	44,810,000.00
-	24,370.00	-	11,540.00		58,670.00	-	2,404,000.00	-	180,600,000.00	-	45,160,000.00
-	24,370.00	-	11,540.00		58,670.00	-	2,404,000.00	-	180,600,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		55,220.00	-	16,440,000.00	-	180,000,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		55,220.00	-	16,440,000.00	-	180,000,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		62,130.00	-	21,250,000.00	-	181,100,000.00	-	45,160,000.00
-	23,680.00		0.01		55,210.00	-	47,170,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		51,750.00	-	28,320,000.00	-	172,500,000.00	-	41,590,000.00
-	23,680.00		4,249.00		58,660.00	-	66,020,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00	-	11,540.00		55,210.00	-	23,320,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		51,750.00	-	42,170,000.00	-	172,500,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		51,750.00	-	42,170,000.00	-	172,500,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		58,660.00	-	4,477,000.00	-	173,500,000.00	-	41,950,000.00
-	693.00	-	11,540.00		60,250.00	-	1,300,000.00	-	9,261,000.00	-	3,574,000.00
-	693.00	-	11,540.00		60,250.00	-	1,300,000.00	-	9,261,000.00	-	3,574,000.00
-	693.00	-	15,790.00		56,790.00	-	20,150,000.00	-	8,737,000.00	-	3,574,000.00
-	693.00	-	7,292.00		63,700.00	-	17,550,000.00	-	9,784,000.00	-	3,574,000.00
-	24,370.00		0.03		60,250.00	-	69,200,000.00	-	180,100,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		56,790.00	-	50,350,000.00	-	179,500,000.00	-	44,810,000.00
-	24,370.00		4,249.00		63,700.00	-	88,040,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00	-	11,540.00		60,250.00	-	1,300,000.00	-	180,100,000.00	-	45,160,000.00
-	24,370.00	-	11,540.00		60,250.00	-	1,300,000.00	-	180,100,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		56,790.00	-	20,150,000.00	-	179,500,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		63,700.00	-	17,550,000.00	-	180,600,000.00	-	45,160,000.00
-	23,680.00		0.02		59,860.00	-	53,930,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		56,410.00	-	35,080,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00		4,249.00		63,320.00	-	72,770,000.00	-	174,000,000.00	-	41,590,000.00
-	23,680.00	-	11,540.00		59,860.00	-	16,570,000.00	-	173,500,000.00	-	41,950,000.00
-	23,680.00	-	11,540.00		59,860.00	-	16,570,000.00	-	173,500,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		56,410.00	-	35,420,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		63,320.00	-	2,277,000.00	-	174,000,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		56,410.00	-	35,420,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		63,320.00	-	2,277,000.00	-	174,000,000.00	-	41,950,000.00
-	693.00		0.05		64,900.00	-	75,950,000.00	-	9,756,000.00	-	3,219,000.00
-	693.00	-	4,249.00		61,450.00	-	57,100,000.00	-	9,232,000.00	-	3,219,000.00
-	693.00		4,249.00		68,360.00	-	94,800,000.00	-	10,280,000.00	-	3,219,000.00
-	693.00	-	11,540.00		64,900.00	-	5,455,000.00	-	9,756,000.00	-	3,574,000.00
-	693.00	-	15,790.00		61,450.00	-	13,390,000.00	-	9,232,000.00	-	3,574,000.00
-	693.00	-	7,292.00		68,360.00	-	24,300,000.00	-	10,280,000.00	-	3,574,000.00
-	24,370.00		4,249.00		68,360.00	-	94,800,000.00	-	181,100,000.00	-	44,810,000.00
-	24,370.00	-	11,540.00		64,900.00	-	5,455,000.00	-	180,600,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		68,360.00	-	24,300,000.00	-	181,100,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		61,450.00	-	13,390,000.00	-	180,000,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		68,360.00	-	24,300,000.00	-	181,100,000.00	-	45,160,000.00
-	23,680.00		0.01		48,980.00	-	44,120,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00		0.02		53,330.00	-	57,170,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		45,520.00	-	25,270,000.00	-	172,500,000.00	-	41,590,000.00
-	23,680.00		4,249.00		52,430.00	-	62,970,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00		4,249.00		52,430.00	-	62,970,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00		4,249.00		56,790.00	-	76,020,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00	-	11,540.00		48,980.00	-	26,380,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	11,540.00		53,330.00	-	13,330,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	11,540.00		53,330.00	-	13,330,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		45,520.00	-	45,220,000.00	-	172,500,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		45,520.00	-	45,220,000.00	-	172,500,000.00	-	41,950,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 152 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	23,680.00	-	15,790.00		49,880.00	32,180,000.00	-	172,500,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		56,790.00	- 5,519,000.00	-	173,500,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		49,880.00	32,180,000.00	-	172,500,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		56,790.00	- 5,519,000.00	-	173,500,000.00	-	41,950,000.00
-	693.00	-	4,249.00		50,560.00	- 47,300,000.00	-	8,737,000.00	-	3,219,000.00
-	693.00		4,249.00		57,470.00	- 84,990,000.00	-	9,784,000.00	-	3,219,000.00
-	693.00	-	4,249.00		50,560.00	- 47,300,000.00	-	8,737,000.00	-	3,219,000.00
-	693.00		4,249.00		61,830.00	- 98,040,000.00	-	9,784,000.00	-	3,219,000.00
-	693.00	-	4,249.00		54,920.00	- 60,350,000.00	-	8,737,000.00	-	3,219,000.00
-	693.00		4,249.00		61,830.00	- 98,040,000.00	-	9,784,000.00	-	3,219,000.00
-	693.00	-	11,540.00		54,020.00	4,350,000.00	-	9,261,000.00	-	3,574,000.00
-	693.00	-	11,540.00		54,020.00	4,350,000.00	-	9,261,000.00	-	3,574,000.00
-	693.00	-	11,540.00		58,370.00	- 8,696,000.00	-	9,261,000.00	-	3,574,000.00
-	693.00	-	11,540.00		58,370.00	- 8,696,000.00	-	9,261,000.00	-	3,574,000.00
-	693.00	-	15,790.00		50,560.00	23,200,000.00	-	8,737,000.00	-	3,574,000.00
-	693.00	-	15,790.00		54,920.00	10,150,000.00	-	8,737,000.00	-	3,574,000.00
-	693.00	-	7,292.00		61,830.00	- 27,540,000.00	-	9,784,000.00	-	3,574,000.00
-	693.00	-	15,790.00		54,920.00	10,150,000.00	-	8,737,000.00	-	3,574,000.00
-	693.00	-	7,292.00		61,830.00	- 27,540,000.00	-	9,784,000.00	-	3,574,000.00
-	24,370.00		0.03		58,370.00	- 79,190,000.00	-	180,100,000.00	-	44,810,000.00
-	24,370.00		4,249.00		61,830.00	- 98,040,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00	-	11,540.00		54,020.00	4,350,000.00	-	180,100,000.00	-	45,160,000.00
-	24,370.00	-	11,540.00		58,370.00	- 8,696,000.00	-	180,100,000.00	-	45,160,000.00
-	24,370.00	-	11,540.00		58,370.00	- 8,696,000.00	-	180,100,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		50,560.00	23,200,000.00	-	179,500,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		54,920.00	10,150,000.00	-	179,500,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		61,830.00	- 27,540,000.00	-	180,600,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		54,920.00	10,150,000.00	-	179,500,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		61,830.00	- 27,540,000.00	-	180,600,000.00	-	45,160,000.00
-	23,680.00		0.01		53,630.00	- 50,880,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00		0.02		57,990.00	- 63,920,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		50,180.00	- 32,030,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00		4,249.00		57,090.00	- 69,720,000.00	-	174,000,000.00	-	41,590,000.00
-	23,680.00		4,249.00		61,450.00	- 82,770,000.00	-	174,000,000.00	-	41,590,000.00
-	23,680.00	-	11,540.00		53,630.00	19,620,000.00	-	173,500,000.00	-	41,950,000.00
-	23,680.00	-	11,540.00		57,990.00	6,575,000.00	-	173,500,000.00	-	41,950,000.00
-	23,680.00	-	11,540.00		57,990.00	6,575,000.00	-	173,500,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		50,180.00	38,470,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		57,090.00	773,000.00	-	174,000,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		50,180.00	38,470,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		57,090.00	773,000.00	-	174,000,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		54,530.00	25,420,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		61,450.00	- 12,270,000.00	-	174,000,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		54,530.00	25,420,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		61,450.00	- 12,270,000.00	-	174,000,000.00	-	41,950,000.00
-	693.00		0.06		63,030.00	- 85,950,000.00	-	9,756,000.00	-	3,219,000.00
-	693.00	-	4,249.00		59,570.00	- 67,100,000.00	-	9,232,000.00	-	3,219,000.00
-	693.00		4,249.00		66,490.00	- 104,800,000.00	-	10,280,000.00	-	3,219,000.00
-	693.00	-	11,540.00		58,670.00	- 2,404,000.00	-	9,756,000.00	-	3,574,000.00
-	693.00	-	11,540.00		58,670.00	- 2,404,000.00	-	9,756,000.00	-	3,574,000.00
-	693.00	-	11,540.00		63,030.00	- 15,450,000.00	-	9,756,000.00	-	3,574,000.00
-	693.00	-	11,540.00		63,030.00	- 15,450,000.00	-	9,756,000.00	-	3,574,000.00
-	693.00	-	15,790.00		55,220.00	16,440,000.00	-	9,232,000.00	-	3,574,000.00
-	693.00	-	7,292.00		62,130.00	- 21,250,000.00	-	10,280,000.00	-	3,574,000.00
-	693.00	-	15,790.00		55,220.00	16,440,000.00	-	9,232,000.00	-	3,574,000.00





## Reazioni vincolari - EQU

Rx	N	Ry	N	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	693.00	-	15,790.00		59,570.00		3,397,000.00	-	9,232,000.00	-	3,574,000.00
-	693.00	-	7,292.00		66,490.00	-	34,300,000.00	-	10,280,000.00	-	3,574,000.00
-	693.00	-	15,790.00		59,570.00		3,397,000.00	-	9,232,000.00	-	3,574,000.00
-	693.00	-	7,292.00		66,490.00	-	34,300,000.00	-	10,280,000.00	-	3,574,000.00
-	24,370.00		0.03		58,670.00	-	72,900,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00		0.03		58,670.00	-	72,900,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00	-	11,540.00		63,030.00	-	15,450,000.00	-	180,600,000.00	-	45,160,000.00
-	24,370.00	-	11,540.00		63,030.00	-	15,450,000.00	-	180,600,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		55,220.00		16,440,000.00	-	180,000,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		59,570.00		3,397,000.00	-	180,000,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		66,490.00	-	34,300,000.00	-	181,100,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		59,570.00		3,397,000.00	-	180,000,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		66,490.00	-	34,300,000.00	-	181,100,000.00	-	45,160,000.00
-	23,680.00	-	4,249.00		56,110.00	-	41,370,000.00	-	172,500,000.00	-	41,590,000.00
-	23,680.00	-	11,540.00		55,210.00		23,320,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	11,540.00		59,560.00		10,280,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	11,540.00		59,560.00		10,280,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		51,750.00		42,170,000.00	-	172,500,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		56,110.00		29,130,000.00	-	172,500,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		63,020.00	-	8,569,000.00	-	173,500,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		56,110.00		29,130,000.00	-	172,500,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		63,020.00	-	8,569,000.00	-	173,500,000.00	-	41,950,000.00
-	693.00		0.06		64,600.00	-	82,240,000.00	-	9,261,000.00	-	3,219,000.00
-	693.00	-	4,249.00		68,060.00	-	101,100,000.00	-	9,784,000.00	-	3,219,000.00
-	693.00	-	11,540.00		64,600.00	-	11,750,000.00	-	9,261,000.00	-	3,574,000.00
-	693.00	-	11,540.00		64,600.00	-	11,750,000.00	-	9,261,000.00	-	3,574,000.00
-	693.00	-	15,790.00		56,790.00		20,150,000.00	-	8,737,000.00	-	3,574,000.00
-	693.00	-	7,292.00		63,700.00	-	17,550,000.00	-	9,784,000.00	-	3,574,000.00
-	693.00	-	15,790.00		61,150.00		7,101,000.00	-	8,737,000.00	-	3,574,000.00
-	693.00	-	7,292.00		68,060.00	-	30,590,000.00	-	9,784,000.00	-	3,574,000.00
-	693.00	-	15,790.00		61,150.00		7,101,000.00	-	8,737,000.00	-	3,574,000.00
-	693.00	-	7,292.00		68,060.00	-	30,590,000.00	-	9,784,000.00	-	3,574,000.00
-	24,370.00		0.04		64,600.00	-	82,240,000.00	-	180,100,000.00	-	44,810,000.00
-	24,370.00		0.04		64,600.00	-	82,240,000.00	-	180,100,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		68,060.00	-	101,100,000.00	-	180,600,000.00	-	44,810,000.00
-	24,370.00	-	11,540.00		60,250.00		1,300,000.00	-	180,100,000.00	-	45,160,000.00
-	24,370.00	-	11,540.00		64,600.00	-	11,750,000.00	-	180,100,000.00	-	45,160,000.00
-	24,370.00	-	11,540.00		64,600.00	-	11,750,000.00	-	180,100,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		56,790.00		20,150,000.00	-	179,500,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		63,700.00	-	17,550,000.00	-	180,600,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		61,150.00		7,101,000.00	-	179,500,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		68,060.00	-	30,590,000.00	-	180,600,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		61,150.00		7,101,000.00	-	179,500,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		68,060.00	-	30,590,000.00	-	180,600,000.00	-	45,160,000.00
-	23,680.00		0.02		59,860.00	-	53,930,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00		0.03		64,220.00	-	66,970,000.00	-	173,500,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		56,410.00	-	35,080,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		67,670.00	-	85,820,000.00	-	174,000,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		60,760.00	-	48,130,000.00	-	173,000,000.00	-	41,590,000.00
-	23,680.00	-	4,249.00		67,670.00	-	85,820,000.00	-	174,000,000.00	-	41,590,000.00
-	23,680.00	-	11,540.00		59,860.00		16,570,000.00	-	173,500,000.00	-	41,950,000.00
-	23,680.00	-	11,540.00		64,220.00		3,524,000.00	-	173,500,000.00	-	41,950,000.00
-	23,680.00	-	11,540.00		64,220.00		3,524,000.00	-	173,500,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		56,410.00		35,420,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		63,320.00	-	2,277,000.00	-	174,000,000.00	-	41,950,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 154 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	23,680.00	-	15,790.00		60,760.00	22,370,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		67,670.00	- 15,320,000.00	-	174,000,000.00	-	41,950,000.00
-	23,680.00	-	15,790.00		60,760.00	22,370,000.00	-	173,000,000.00	-	41,950,000.00
-	23,680.00	-	7,292.00		67,670.00	- 15,320,000.00	-	174,000,000.00	-	41,950,000.00
-	693.00		0.05		64,900.00	- 75,950,000.00	-	9,756,000.00	-	3,219,000.00
-	693.00		0.06		69,260.00	- 89,000,000.00	-	9,756,000.00	-	3,219,000.00
-	693.00		4,249.00		68,360.00	- 94,800,000.00	-	10,280,000.00	-	3,219,000.00
-	693.00		4,249.00		72,710.00	- 107,800,000.00	-	10,280,000.00	-	3,219,000.00
-	693.00	-	4,249.00		65,800.00	- 70,150,000.00	-	9,232,000.00	-	3,219,000.00
-	693.00	-	11,540.00		69,260.00	- 18,500,000.00	-	9,756,000.00	-	3,574,000.00
-	693.00	-	11,540.00		69,260.00	- 18,500,000.00	-	9,756,000.00	-	3,574,000.00
-	693.00	-	15,790.00		65,800.00	346,700.00	-	9,232,000.00	-	3,574,000.00
-	693.00	-	7,292.00		72,710.00	- 37,350,000.00	-	10,280,000.00	-	3,574,000.00
-	693.00	-	15,790.00		65,800.00	346,700.00	-	9,232,000.00	-	3,574,000.00
-	693.00	-	7,292.00		72,710.00	- 37,350,000.00	-	10,280,000.00	-	3,574,000.00
-	24,370.00		4,249.00		68,360.00	- 94,800,000.00	-	181,100,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		65,800.00	- 70,150,000.00	-	180,000,000.00	-	44,810,000.00
-	24,370.00		4,249.00		72,710.00	- 107,800,000.00	-	181,100,000.00	-	44,810,000.00
-	24,370.00	-	4,249.00		65,800.00	- 70,150,000.00	-	180,000,000.00	-	44,810,000.00
-	24,370.00	-	11,540.00		64,900.00	- 5,455,000.00	-	180,600,000.00	-	45,160,000.00
-	24,370.00	-	11,540.00		69,260.00	- 18,500,000.00	-	180,600,000.00	-	45,160,000.00
-	24,370.00	-	11,540.00		69,260.00	- 18,500,000.00	-	180,600,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		61,450.00	13,390,000.00	-	180,000,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		68,360.00	- 24,300,000.00	-	181,100,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		65,800.00	346,900.00	-	180,000,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		72,710.00	- 37,350,000.00	-	181,100,000.00	-	45,160,000.00
-	24,370.00	-	15,790.00		65,800.00	346,900.00	-	180,000,000.00	-	45,160,000.00
-	24,370.00	-	7,292.00		72,710.00	- 37,350,000.00	-	181,100,000.00	-	45,160,000.00
	23,680.00		4,249.00		52,430.00	- 62,970,000.00		168,000,000.00		41,590,000.00
	23,680.00		14,870.00		52,430.00	- 126,300,000.00		168,000,000.00		41,950,000.00
	23,680.00		6,370.00		45,520.00	- 88,560,000.00		169,100,000.00		41,950,000.00
	23,680.00		14,870.00		52,430.00	- 126,300,000.00		168,000,000.00		41,950,000.00
	22,990.00		4,249.00		57,470.00	- 84,990,000.00		161,000,000.00		38,370,000.00
	22,990.00		6,370.00		50,560.00	- 110,600,000.00		162,100,000.00		38,730,000.00
	22,990.00		14,870.00		57,470.00	- 148,300,000.00		161,000,000.00		38,730,000.00
	23,680.00		0.06		53,630.00	- 50,880,000.00		168,100,000.00		41,590,000.00
	23,680.00	-	4,249.00		50,180.00	- 32,030,000.00		168,600,000.00		41,590,000.00
	23,680.00		10,620.00		53,630.00	- 114,200,000.00		168,100,000.00		41,950,000.00
	23,680.00		10,620.00		53,630.00	- 114,200,000.00		168,100,000.00		41,950,000.00
	23,680.00		6,370.00		50,180.00	- 95,310,000.00		168,600,000.00		41,950,000.00
	22,990.00		6,370.00		55,220.00	- 117,300,000.00		161,600,000.00		38,730,000.00
	22,990.00		14,870.00		62,130.00	- 155,000,000.00		160,500,000.00		38,730,000.00
	22,990.00		6,370.00		55,220.00	- 117,300,000.00		161,600,000.00		38,730,000.00
	22,990.00		14,870.00		62,130.00	- 155,000,000.00		160,500,000.00		38,730,000.00
	23,680.00	-	4,249.00		51,750.00	- 28,320,000.00		169,100,000.00		41,590,000.00
	23,680.00		6,370.00		51,750.00	- 91,610,000.00		169,100,000.00		41,950,000.00
	23,680.00		14,870.00		58,660.00	- 129,300,000.00		168,000,000.00		41,950,000.00
	23,680.00		6,370.00		51,750.00	- 91,610,000.00		169,100,000.00		41,950,000.00
	23,680.00		14,870.00		58,660.00	- 129,300,000.00		168,000,000.00		41,950,000.00
	22,990.00		6,370.00		56,790.00	- 113,600,000.00		162,100,000.00		38,730,000.00
	22,990.00		14,870.00		63,700.00	- 151,300,000.00		161,000,000.00		38,730,000.00
	23,680.00		10,620.00		59,860.00	- 117,200,000.00		168,100,000.00		41,950,000.00
	23,680.00		6,370.00		56,410.00	- 98,360,000.00		168,600,000.00		41,950,000.00
	22,990.00		14,870.00		68,360.00	- 158,100,000.00		160,500,000.00		38,730,000.00
	23,680.00		4,249.00		52,430.00	- 62,970,000.00		168,000,000.00		41,590,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 155 di 215

Reazioni vincolari - EQU						
<b>Rx</b> N	<b>Ry</b> N	<b>N</b> N	<b>Mx</b> Nmm	<b>My</b> Nmm	<b>Mz</b> Nmm	
23,680.00	10,620.00	48,980.00	- 107,400,000.00	168,600,000.00	41,950,000.00	
23,680.00	6,370.00	45,520.00	- 88,560,000.00	169,100,000.00	41,950,000.00	
23,680.00	14,870.00	52,430.00	- 126,300,000.00	168,000,000.00	41,950,000.00	
22,990.00	4,249.00	57,470.00	- 84,990,000.00	161,000,000.00	38,370,000.00	
22,990.00	- 4,249.00	50,560.00	- 47,300,000.00	162,100,000.00	38,370,000.00	
22,990.00	10,620.00	54,020.00	- 129,400,000.00	161,500,000.00	38,730,000.00	
22,990.00	6,370.00	50,560.00	- 110,600,000.00	162,100,000.00	38,730,000.00	
22,990.00	14,870.00	57,470.00	- 148,300,000.00	161,000,000.00	38,730,000.00	
22,990.00	6,370.00	50,560.00	- 110,600,000.00	162,100,000.00	38,730,000.00	
22,990.00	14,870.00	57,470.00	- 148,300,000.00	161,000,000.00	38,730,000.00	
23,680.00	0.06	53,630.00	- 50,880,000.00	168,100,000.00	41,590,000.00	
23,680.00	- 4,249.00	50,180.00	- 32,030,000.00	168,600,000.00	41,590,000.00	
23,680.00	4,249.00	57,090.00	- 69,720,000.00	167,500,000.00	41,590,000.00	
23,680.00	10,620.00	53,630.00	- 114,200,000.00	168,100,000.00	41,950,000.00	
23,680.00	6,370.00	50,180.00	- 95,310,000.00	168,600,000.00	41,950,000.00	
23,680.00	14,870.00	57,090.00	- 133,000,000.00	167,500,000.00	41,950,000.00	
23,680.00	6,370.00	50,180.00	- 95,310,000.00	168,600,000.00	41,950,000.00	
23,680.00	14,870.00	57,090.00	- 133,000,000.00	167,500,000.00	41,950,000.00	
22,990.00	0.07	58,670.00	- 72,900,000.00	161,000,000.00	38,370,000.00	
22,990.00	4,249.00	62,130.00	- 91,750,000.00	160,500,000.00	38,370,000.00	
22,990.00	- 4,249.00	55,220.00	- 54,050,000.00	161,600,000.00	38,370,000.00	
22,990.00	4,249.00	62,130.00	- 91,750,000.00	160,500,000.00	38,370,000.00	
22,990.00	10,620.00	58,670.00	- 136,200,000.00	161,000,000.00	38,730,000.00	
22,990.00	10,620.00	58,670.00	- 136,200,000.00	161,000,000.00	38,730,000.00	
22,990.00	6,370.00	55,220.00	- 117,300,000.00	161,600,000.00	38,730,000.00	
22,990.00	14,870.00	62,130.00	- 155,000,000.00	160,500,000.00	38,730,000.00	
23,680.00	0.06	55,210.00	- 47,170,000.00	168,600,000.00	41,590,000.00	
23,680.00	- 4,249.00	51,750.00	- 28,320,000.00	169,100,000.00	41,590,000.00	
23,680.00	4,249.00	58,660.00	- 66,020,000.00	168,000,000.00	41,590,000.00	
23,680.00	4,249.00	58,660.00	- 66,020,000.00	168,000,000.00	41,590,000.00	
23,680.00	10,620.00	55,210.00	- 110,500,000.00	168,600,000.00	41,950,000.00	
23,680.00	6,370.00	51,750.00	- 91,610,000.00	169,100,000.00	41,950,000.00	
23,680.00	14,870.00	58,660.00	- 129,300,000.00	168,000,000.00	41,950,000.00	
22,990.00	10,620.00	60,250.00	- 132,500,000.00	161,500,000.00	38,730,000.00	
22,990.00	6,370.00	56,790.00	- 113,600,000.00	162,100,000.00	38,730,000.00	
22,990.00	14,870.00	63,700.00	- 151,300,000.00	161,000,000.00	38,730,000.00	
23,680.00	0.06	59,860.00	- 53,930,000.00	168,100,000.00	41,590,000.00	
23,680.00	- 4,249.00	56,410.00	- 35,080,000.00	168,600,000.00	41,590,000.00	
23,680.00	10,620.00	59,860.00	- 117,200,000.00	168,100,000.00	41,950,000.00	
23,680.00	6,370.00	56,410.00	- 98,360,000.00	168,600,000.00	41,950,000.00	
23,680.00	6,370.00	56,410.00	- 98,360,000.00	168,600,000.00	41,950,000.00	
23,680.00	14,870.00	63,320.00	- 136,100,000.00	167,500,000.00	41,950,000.00	
22,990.00	0.08	64,900.00	- 75,950,000.00	161,000,000.00	38,370,000.00	
22,990.00	4,249.00	68,360.00	- 94,800,000.00	160,500,000.00	38,370,000.00	
22,990.00	10,620.00	64,900.00	- 139,200,000.00	161,000,000.00	38,730,000.00	
22,990.00	10,620.00	64,900.00	- 139,200,000.00	161,000,000.00	38,730,000.00	
22,990.00	6,370.00	61,450.00	- 120,400,000.00	161,600,000.00	38,730,000.00	
22,990.00	14,870.00	68,360.00	- 158,100,000.00	160,500,000.00	38,730,000.00	
23,680.00	- 4,249.00	49,880.00	- 38,320,000.00	169,100,000.00	41,590,000.00	
23,680.00	4,249.00	56,790.00	- 76,020,000.00	168,000,000.00	41,590,000.00	
23,680.00	4,249.00	56,790.00	- 76,020,000.00	168,000,000.00	41,590,000.00	
23,680.00	10,620.00	48,980.00	- 107,400,000.00	168,600,000.00	41,950,000.00	
23,680.00	10,620.00	48,980.00	- 107,400,000.00	168,600,000.00	41,950,000.00	
23,680.00	10,620.00	53,330.00	- 120,400,000.00	168,600,000.00	41,950,000.00	
23,680.00	10,620.00	53,330.00	- 120,400,000.00	168,600,000.00	41,950,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE			
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 156 di 215

Reazioni vincolari - EQU						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
23,680.00	6,370.00	45,520.00	- 88,560,000.00	169,100,000.00	41,950,000.00	
23,680.00	6,370.00	49,880.00	- 101,600,000.00	169,100,000.00	41,950,000.00	
23,680.00	14,870.00	56,790.00	- 139,300,000.00	168,000,000.00	41,950,000.00	
23,680.00	6,370.00	49,880.00	- 101,600,000.00	169,100,000.00	41,950,000.00	
23,680.00	14,870.00	56,790.00	- 139,300,000.00	168,000,000.00	41,950,000.00	
22,990.00	4,249.00	61,830.00	- 98,040,000.00	161,000,000.00	38,370,000.00	
22,990.00	- 4,249.00	54,920.00	- 60,350,000.00	162,100,000.00	38,370,000.00	
22,990.00	10,620.00	54,020.00	- 129,400,000.00	161,500,000.00	38,730,000.00	
22,990.00	10,620.00	54,020.00	- 129,400,000.00	161,500,000.00	38,730,000.00	
22,990.00	10,620.00	58,370.00	- 142,500,000.00	161,500,000.00	38,730,000.00	
22,990.00	10,620.00	58,370.00	- 142,500,000.00	161,500,000.00	38,730,000.00	
22,990.00	6,370.00	54,920.00	- 123,600,000.00	162,100,000.00	38,730,000.00	
22,990.00	14,870.00	61,830.00	- 161,300,000.00	161,000,000.00	38,730,000.00	
22,990.00	6,370.00	54,920.00	- 123,600,000.00	162,100,000.00	38,730,000.00	
22,990.00	14,870.00	61,830.00	- 161,300,000.00	161,000,000.00	38,730,000.00	
23,680.00	0.07	57,990.00	- 63,920,000.00	168,100,000.00	41,590,000.00	
23,680.00	0.07	57,990.00	- 63,920,000.00	168,100,000.00	41,590,000.00	
23,680.00	4,249.00	61,450.00	- 82,770,000.00	167,500,000.00	41,590,000.00	
23,680.00	10,620.00	57,990.00	- 127,200,000.00	168,100,000.00	41,950,000.00	
23,680.00	10,620.00	57,990.00	- 127,200,000.00	168,100,000.00	41,950,000.00	
23,680.00	14,870.00	57,090.00	- 133,000,000.00	167,500,000.00	41,950,000.00	
23,680.00	6,370.00	54,530.00	- 108,400,000.00	168,600,000.00	41,950,000.00	
23,680.00	14,870.00	61,450.00	- 146,100,000.00	167,500,000.00	41,950,000.00	
23,680.00	6,370.00	54,530.00	- 108,400,000.00	168,600,000.00	41,950,000.00	
23,680.00	14,870.00	61,450.00	- 146,100,000.00	167,500,000.00	41,950,000.00	
22,990.00	0.07	58,670.00	- 72,900,000.00	161,000,000.00	38,370,000.00	
22,990.00	- 4,249.00	55,220.00	- 54,050,000.00	161,600,000.00	38,370,000.00	
22,990.00	4,249.00	62,130.00	- 91,750,000.00	160,500,000.00	38,370,000.00	
22,990.00	- 4,249.00	59,570.00	- 67,100,000.00	161,600,000.00	38,370,000.00	
22,990.00	4,249.00	66,490.00	- 104,800,000.00	160,500,000.00	38,370,000.00	
22,990.00	- 4,249.00	59,570.00	- 67,100,000.00	161,600,000.00	38,370,000.00	
22,990.00	4,249.00	66,490.00	- 104,800,000.00	160,500,000.00	38,370,000.00	
22,990.00	10,620.00	58,670.00	- 136,200,000.00	161,000,000.00	38,730,000.00	
22,990.00	10,620.00	63,030.00	- 149,200,000.00	161,000,000.00	38,730,000.00	
22,990.00	10,620.00	63,030.00	- 149,200,000.00	161,000,000.00	38,730,000.00	
22,990.00	6,370.00	59,570.00	- 130,400,000.00	161,600,000.00	38,730,000.00	
22,990.00	14,870.00	66,490.00	- 168,100,000.00	160,500,000.00	38,730,000.00	
22,990.00	6,370.00	59,570.00	- 130,400,000.00	161,600,000.00	38,730,000.00	
22,990.00	14,870.00	66,490.00	- 168,100,000.00	160,500,000.00	38,730,000.00	
23,680.00	0.07	59,560.00	- 60,220,000.00	168,600,000.00	41,590,000.00	
23,680.00	- 4,249.00	56,110.00	- 41,370,000.00	169,100,000.00	41,590,000.00	
23,680.00	4,249.00	63,020.00	- 79,070,000.00	168,000,000.00	41,590,000.00	
23,680.00	10,620.00	55,210.00	- 110,500,000.00	168,600,000.00	41,950,000.00	
23,680.00	10,620.00	55,210.00	- 110,500,000.00	168,600,000.00	41,950,000.00	
23,680.00	10,620.00	59,560.00	- 123,500,000.00	168,600,000.00	41,950,000.00	
23,680.00	10,620.00	59,560.00	- 123,500,000.00	168,600,000.00	41,950,000.00	
23,680.00	6,370.00	56,110.00	- 104,700,000.00	169,100,000.00	41,950,000.00	
23,680.00	14,870.00	63,020.00	- 142,300,000.00	168,000,000.00	41,950,000.00	
23,680.00	6,370.00	56,110.00	- 104,700,000.00	169,100,000.00	41,950,000.00	
23,680.00	14,870.00	63,020.00	- 142,300,000.00	168,000,000.00	41,950,000.00	
22,990.00	0.07	60,250.00	- 69,200,000.00	161,500,000.00	38,370,000.00	
22,990.00	0.08	64,600.00	- 82,240,000.00	161,500,000.00	38,370,000.00	
22,990.00	0.08	64,600.00	- 82,240,000.00	161,500,000.00	38,370,000.00	
22,990.00	- 4,249.00	56,790.00	- 50,350,000.00	162,100,000.00	38,370,000.00	
22,990.00	4,249.00	63,700.00	- 88,050,000.00	161,000,000.00	38,370,000.00	

GENERAL CONTRACTOR  IRICAV2		ALTA SORVEGLIANZA  GRUPPO FERROVIE DELLO STATO ITALIANE			
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 157 di 215

Reazioni vincolari - EQU						
Rx	Ry		N	Mx	My	Mz
N	N		N	Nmm	Nmm	Nmm
22,990.00	-	4,249.00	61,150.00	- 63,400,000.00	162,100,000.00	38,370,000.00
22,990.00		4,249.00	68,060.00	- 101,100,000.00	161,000,000.00	38,370,000.00
22,990.00	-	4,249.00	61,150.00	- 63,400,000.00	162,100,000.00	38,370,000.00
22,990.00		10,620.00	60,250.00	- 132,500,000.00	161,500,000.00	38,730,000.00
22,990.00		10,620.00	60,250.00	- 132,500,000.00	161,500,000.00	38,730,000.00
22,990.00		10,620.00	64,600.00	- 145,500,000.00	161,500,000.00	38,730,000.00
22,990.00		10,620.00	64,600.00	- 145,500,000.00	161,500,000.00	38,730,000.00
22,990.00		6,370.00	56,790.00	- 113,600,000.00	162,100,000.00	38,730,000.00
22,990.00		14,870.00	63,700.00	- 151,300,000.00	161,000,000.00	38,730,000.00
22,990.00		6,370.00	61,150.00	- 126,700,000.00	162,100,000.00	38,730,000.00
22,990.00		14,870.00	68,060.00	- 164,400,000.00	161,000,000.00	38,730,000.00
22,990.00		6,370.00	61,150.00	- 126,700,000.00	162,100,000.00	38,730,000.00
22,990.00		14,870.00	68,060.00	- 164,400,000.00	161,000,000.00	38,730,000.00
23,680.00		0.07	64,220.00	- 66,970,000.00	168,100,000.00	41,590,000.00
23,680.00	-	4,249.00	60,760.00	- 48,130,000.00	168,600,000.00	41,590,000.00
23,680.00		10,620.00	59,860.00	- 117,200,000.00	168,100,000.00	41,950,000.00
23,680.00		10,620.00	64,220.00	- 130,300,000.00	168,100,000.00	41,950,000.00
23,680.00		10,620.00	64,220.00	- 130,300,000.00	168,100,000.00	41,950,000.00
23,680.00		14,870.00	63,320.00	- 136,100,000.00	167,500,000.00	41,950,000.00
23,680.00		14,870.00	63,320.00	- 136,100,000.00	167,500,000.00	41,950,000.00
23,680.00		6,370.00	60,760.00	- 111,400,000.00	168,600,000.00	41,950,000.00
23,680.00		14,870.00	67,670.00	- 149,100,000.00	167,500,000.00	41,950,000.00
23,680.00		6,370.00	60,760.00	- 111,400,000.00	168,600,000.00	41,950,000.00
23,680.00		14,870.00	67,670.00	- 149,100,000.00	167,500,000.00	41,950,000.00
22,990.00		4,249.00	72,710.00	- 107,800,000.00	160,500,000.00	38,370,000.00
22,990.00	-	4,249.00	65,800.00	- 70,150,000.00	161,600,000.00	38,370,000.00
22,990.00		4,249.00	72,710.00	- 107,800,000.00	160,500,000.00	38,370,000.00
22,990.00		10,620.00	64,900.00	- 139,200,000.00	161,000,000.00	38,730,000.00
22,990.00		10,620.00	69,260.00	- 152,300,000.00	161,000,000.00	38,730,000.00
22,990.00		10,620.00	69,260.00	- 152,300,000.00	161,000,000.00	38,730,000.00
22,990.00		6,370.00	61,450.00	- 120,400,000.00	161,600,000.00	38,730,000.00
22,990.00		6,370.00	61,450.00	- 120,400,000.00	161,600,000.00	38,730,000.00
22,990.00		14,870.00	68,360.00	- 158,100,000.00	160,500,000.00	38,730,000.00
22,990.00		6,370.00	65,800.00	- 133,400,000.00	161,600,000.00	38,730,000.00
22,990.00		14,870.00	72,710.00	- 171,100,000.00	160,500,000.00	38,730,000.00
22,990.00		6,370.00	65,800.00	- 133,400,000.00	161,600,000.00	38,730,000.00
22,990.00		14,870.00	72,710.00	- 171,100,000.00	160,500,000.00	38,730,000.00
23,680.00	-	15,790.00	45,520.00	45,220,000.00	169,100,000.00	41,240,000.00
23,680.00	-	7,292.00	52,430.00	7,527,000.00	168,000,000.00	41,240,000.00
22,990.00	-	11,540.00	54,020.00	4,350,000.00	161,500,000.00	38,020,000.00
22,990.00	-	15,790.00	50,560.00	23,200,000.00	162,100,000.00	38,020,000.00
23,680.00	-	4,249.00	50,180.00	- 32,030,000.00	168,600,000.00	41,590,000.00
23,680.00		4,249.00	57,090.00	- 69,720,000.00	167,500,000.00	41,590,000.00
23,680.00	-	11,540.00	53,630.00	19,620,000.00	168,100,000.00	41,240,000.00
23,680.00	-	15,790.00	50,180.00	38,470,000.00	168,600,000.00	41,240,000.00
23,680.00	-	7,292.00	57,090.00	772,600.00	167,500,000.00	41,240,000.00
23,680.00	-	15,790.00	50,180.00	38,470,000.00	168,600,000.00	41,240,000.00
23,680.00	-	7,292.00	57,090.00	772,600.00	167,500,000.00	41,240,000.00
22,990.00	-	11,540.00	58,670.00	- 2,405,000.00	161,000,000.00	38,020,000.00
22,990.00	-	11,540.00	58,670.00	- 2,405,000.00	161,000,000.00	38,020,000.00
23,680.00		0.06	55,210.00	- 47,170,000.00	168,600,000.00	41,590,000.00
23,680.00		4,249.00	58,660.00	- 66,020,000.00	168,000,000.00	41,590,000.00
23,680.00	-	11,540.00	55,210.00	23,320,000.00	168,600,000.00	41,240,000.00
23,680.00	-	11,540.00	55,210.00	23,320,000.00	168,600,000.00	41,240,000.00
23,680.00	-	15,790.00	51,750.00	42,170,000.00	169,100,000.00	41,240,000.00

<b>GENERAL CONTRACTOR</b> 	<b>ALTA SORVEGLIANZA</b>  GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 158 di 215

Reazioni vincolari - EQU						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
22,990.00	0.07	60,250.00	- 69,200,000.00	161,500,000.00	38,370,000.00	
22,990.00	- 11,540.00	60,250.00	1,299,000.00	161,500,000.00	38,020,000.00	
22,990.00	- 11,540.00	60,250.00	1,299,000.00	161,500,000.00	38,020,000.00	
22,990.00	- 7,292.00	63,700.00	- 17,550,000.00	161,000,000.00	38,020,000.00	
23,680.00	0.06	59,860.00	- 53,930,000.00	168,100,000.00	41,590,000.00	
23,680.00	- 4,249.00	56,410.00	- 35,080,000.00	168,600,000.00	41,590,000.00	
23,680.00	4,249.00	63,320.00	- 72,770,000.00	167,500,000.00	41,590,000.00	
23,680.00	- 4,249.00	56,410.00	- 35,080,000.00	168,600,000.00	41,590,000.00	
23,680.00	- 11,540.00	59,860.00	16,570,000.00	168,100,000.00	41,240,000.00	
23,680.00	- 15,790.00	56,410.00	35,420,000.00	168,600,000.00	41,240,000.00	
22,990.00	0.07	64,900.00	- 75,950,000.00	161,000,000.00	38,370,000.00	
22,990.00	- 4,249.00	61,450.00	- 57,100,000.00	161,600,000.00	38,370,000.00	
23,680.00	0.05	48,980.00	- 44,120,000.00	168,600,000.00	41,590,000.00	
23,680.00	0.05	48,980.00	- 44,120,000.00	168,600,000.00	41,590,000.00	
23,680.00	- 4,249.00	45,520.00	- 25,270,000.00	169,100,000.00	41,590,000.00	
23,680.00	- 11,540.00	48,980.00	26,370,000.00	168,600,000.00	41,240,000.00	
23,680.00	- 11,540.00	48,980.00	26,370,000.00	168,600,000.00	41,240,000.00	
23,680.00	- 15,790.00	45,520.00	45,220,000.00	169,100,000.00	41,240,000.00	
23,680.00	- 7,292.00	52,430.00	7,527,000.00	168,000,000.00	41,240,000.00	
23,680.00	- 15,790.00	45,520.00	45,220,000.00	169,100,000.00	41,240,000.00	
23,680.00	- 7,292.00	52,430.00	7,527,000.00	168,000,000.00	41,240,000.00	
22,990.00	0.07	54,020.00	- 66,150,000.00	161,500,000.00	38,370,000.00	
22,990.00	4,249.00	57,470.00	- 84,990,000.00	161,000,000.00	38,370,000.00	
22,990.00	- 11,540.00	54,020.00	4,350,000.00	161,500,000.00	38,020,000.00	
22,990.00	- 11,540.00	54,020.00	4,350,000.00	161,500,000.00	38,020,000.00	
22,990.00	- 7,292.00	57,470.00	- 14,500,000.00	161,000,000.00	38,020,000.00	
22,990.00	- 15,790.00	50,560.00	23,200,000.00	162,100,000.00	38,020,000.00	
22,990.00	- 7,292.00	57,470.00	- 14,500,000.00	161,000,000.00	38,020,000.00	
23,680.00	0.06	53,630.00	- 50,880,000.00	168,100,000.00	41,590,000.00	
23,680.00	- 11,540.00	53,630.00	19,620,000.00	168,100,000.00	41,240,000.00	
23,680.00	- 15,790.00	50,180.00	38,470,000.00	168,600,000.00	41,240,000.00	
23,680.00	- 7,292.00	57,090.00	772,600.00	167,500,000.00	41,240,000.00	
22,990.00	0.07	58,670.00	- 72,900,000.00	161,000,000.00	38,370,000.00	
22,990.00	- 4,249.00	55,220.00	- 54,050,000.00	161,600,000.00	38,370,000.00	
22,990.00	- 11,540.00	58,670.00	- 2,405,000.00	161,000,000.00	38,020,000.00	
22,990.00	- 15,790.00	55,220.00	16,440,000.00	161,600,000.00	38,020,000.00	
22,990.00	- 7,292.00	62,130.00	- 21,250,000.00	160,500,000.00	38,020,000.00	
23,680.00	- 4,249.00	51,750.00	- 28,320,000.00	169,100,000.00	41,590,000.00	
23,680.00	- 11,540.00	55,210.00	23,320,000.00	168,600,000.00	41,240,000.00	
23,680.00	- 15,790.00	51,750.00	42,170,000.00	169,100,000.00	41,240,000.00	
23,680.00	- 7,292.00	58,660.00	4,477,000.00	168,000,000.00	41,240,000.00	
23,680.00	- 15,790.00	51,750.00	42,170,000.00	169,100,000.00	41,240,000.00	
23,680.00	- 7,292.00	58,660.00	4,477,000.00	168,000,000.00	41,240,000.00	
22,990.00	0.07	60,250.00	- 69,200,000.00	161,500,000.00	38,370,000.00	
22,990.00	- 4,249.00	56,790.00	- 50,350,000.00	162,100,000.00	38,370,000.00	
22,990.00	4,249.00	63,700.00	- 88,050,000.00	161,000,000.00	38,370,000.00	
22,990.00	- 4,249.00	56,790.00	- 50,350,000.00	162,100,000.00	38,370,000.00	
22,990.00	4,249.00	63,700.00	- 88,050,000.00	161,000,000.00	38,370,000.00	
22,990.00	- 11,540.00	60,250.00	1,299,000.00	161,500,000.00	38,020,000.00	
22,990.00	- 15,790.00	56,790.00	20,150,000.00	162,100,000.00	38,020,000.00	
22,990.00	- 7,292.00	63,700.00	- 17,550,000.00	161,000,000.00	38,020,000.00	
22,990.00	- 15,790.00	56,790.00	20,150,000.00	162,100,000.00	38,020,000.00	
22,990.00	- 7,292.00	63,700.00	- 17,550,000.00	161,000,000.00	38,020,000.00	
23,680.00	4,249.00	63,320.00	- 72,770,000.00	167,500,000.00	41,590,000.00	
23,680.00	- 11,540.00	59,860.00	16,570,000.00	168,100,000.00	41,240,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 159 di 215

Reazioni vincolari - EQU						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
23,680.00	- 7,292.00	63,320.00	- 2,278,000.00	167,500,000.00	41,240,000.00	
23,680.00	- 15,790.00	56,410.00	35,420,000.00	168,600,000.00	41,240,000.00	
23,680.00	- 7,292.00	63,320.00	- 2,278,000.00	167,500,000.00	41,240,000.00	
22,990.00	0.07	64,900.00	- 75,950,000.00	161,000,000.00	38,370,000.00	
22,990.00	- 4,249.00	61,450.00	- 57,100,000.00	161,600,000.00	38,370,000.00	
22,990.00	- 11,540.00	64,900.00	- 5,455,000.00	161,000,000.00	38,020,000.00	
22,990.00	- 7,292.00	68,360.00	- 24,300,000.00	160,500,000.00	38,020,000.00	
22,990.00	- 15,790.00	61,450.00	13,390,000.00	161,600,000.00	38,020,000.00	
22,990.00	- 7,292.00	68,360.00	- 24,300,000.00	160,500,000.00	38,020,000.00	
23,680.00	0.05	48,980.00	- 44,120,000.00	168,600,000.00	41,590,000.00	
23,680.00	0.06	53,330.00	- 57,170,000.00	168,600,000.00	41,590,000.00	
23,680.00	0.06	53,330.00	- 57,170,000.00	168,600,000.00	41,590,000.00	
23,680.00	- 4,249.00	45,520.00	- 25,270,000.00	169,100,000.00	41,590,000.00	
23,680.00	- 4,249.00	45,520.00	- 25,270,000.00	169,100,000.00	41,590,000.00	
23,680.00	4,249.00	52,430.00	- 62,970,000.00	168,000,000.00	41,590,000.00	
23,680.00	- 4,249.00	49,880.00	- 38,320,000.00	169,100,000.00	41,590,000.00	
23,680.00	- 11,540.00	48,980.00	26,370,000.00	168,600,000.00	41,240,000.00	
23,680.00	- 11,540.00	53,330.00	13,330,000.00	168,600,000.00	41,240,000.00	
23,680.00	- 11,540.00	53,330.00	13,330,000.00	168,600,000.00	41,240,000.00	
23,680.00	- 15,790.00	49,880.00	32,180,000.00	169,100,000.00	41,240,000.00	
23,680.00	- 7,292.00	56,790.00	- 5,519,000.00	168,000,000.00	41,240,000.00	
23,680.00	- 15,790.00	49,880.00	32,180,000.00	169,100,000.00	41,240,000.00	
23,680.00	- 7,292.00	56,790.00	- 5,519,000.00	168,000,000.00	41,240,000.00	
22,990.00	0.07	54,020.00	- 66,150,000.00	161,500,000.00	38,370,000.00	
22,990.00	0.07	54,020.00	- 66,150,000.00	161,500,000.00	38,370,000.00	
22,990.00	0.08	58,370.00	- 79,190,000.00	161,500,000.00	38,370,000.00	
22,990.00	0.08	58,370.00	- 79,190,000.00	161,500,000.00	38,370,000.00	
22,990.00	- 4,249.00	50,560.00	- 47,300,000.00	162,100,000.00	38,370,000.00	
22,990.00	- 4,249.00	50,560.00	- 47,300,000.00	162,100,000.00	38,370,000.00	
22,990.00	- 4,249.00	54,920.00	- 60,350,000.00	162,100,000.00	38,370,000.00	
22,990.00	4,249.00	61,830.00	- 98,040,000.00	161,000,000.00	38,370,000.00	
22,990.00	- 11,540.00	58,370.00	- 8,696,000.00	161,500,000.00	38,020,000.00	
22,990.00	- 11,540.00	58,370.00	- 8,696,000.00	161,500,000.00	38,020,000.00	
22,990.00	- 15,790.00	50,560.00	23,200,000.00	162,100,000.00	38,020,000.00	
22,990.00	- 7,292.00	57,470.00	- 14,500,000.00	161,000,000.00	38,020,000.00	
22,990.00	- 15,790.00	54,920.00	10,150,000.00	162,100,000.00	38,020,000.00	
22,990.00	- 7,292.00	61,830.00	- 27,540,000.00	161,000,000.00	38,020,000.00	
22,990.00	- 15,790.00	54,920.00	10,150,000.00	162,100,000.00	38,020,000.00	
22,990.00	- 7,292.00	61,830.00	- 27,540,000.00	161,000,000.00	38,020,000.00	
23,680.00	4,249.00	57,090.00	- 69,720,000.00	167,500,000.00	41,590,000.00	
23,680.00	- 4,249.00	54,530.00	- 45,070,000.00	168,600,000.00	41,590,000.00	
23,680.00	4,249.00	61,450.00	- 82,770,000.00	167,500,000.00	41,590,000.00	
23,680.00	- 4,249.00	54,530.00	- 45,070,000.00	168,600,000.00	41,590,000.00	
23,680.00	- 11,540.00	53,630.00	19,620,000.00	168,100,000.00	41,240,000.00	
23,680.00	- 11,540.00	57,990.00	6,574,000.00	168,100,000.00	41,240,000.00	
23,680.00	- 11,540.00	57,990.00	6,574,000.00	168,100,000.00	41,240,000.00	
23,680.00	- 15,790.00	54,530.00	25,420,000.00	168,600,000.00	41,240,000.00	
23,680.00	- 7,292.00	61,450.00	- 12,270,000.00	167,500,000.00	41,240,000.00	
23,680.00	- 15,790.00	54,530.00	25,420,000.00	168,600,000.00	41,240,000.00	
23,680.00	- 7,292.00	61,450.00	- 12,270,000.00	167,500,000.00	41,240,000.00	
22,990.00	0.08	63,030.00	- 85,950,000.00	161,000,000.00	38,370,000.00	
22,990.00	0.08	63,030.00	- 85,950,000.00	161,000,000.00	38,370,000.00	
22,990.00	- 11,540.00	63,030.00	- 15,450,000.00	161,000,000.00	38,020,000.00	
22,990.00	- 11,540.00	63,030.00	- 15,450,000.00	161,000,000.00	38,020,000.00	
22,990.00	- 15,790.00	55,220.00	16,440,000.00	161,600,000.00	38,020,000.00	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45

Progetto  
IN17Lotto  
10Codifica Documento  
EI2CLOC000006Rev.  
AFoglio  
160 di 215

## Reazioni vincolari - EQU

Rx	N	Ry	N	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
22,990.00	-	7,292.00	62,130.00	-	21,250,000.00	160,500,000.00	38,020,000.00				
22,990.00	-	15,790.00	55,220.00	-	16,440,000.00	161,600,000.00	38,020,000.00				
22,990.00	-	7,292.00	62,130.00	-	21,250,000.00	160,500,000.00	38,020,000.00				
22,990.00	-	15,790.00	59,570.00	-	3,397,000.00	161,600,000.00	38,020,000.00				
22,990.00	-	7,292.00	66,490.00	-	34,300,000.00	160,500,000.00	38,020,000.00				
22,990.00	-	15,790.00	59,570.00	-	3,397,000.00	161,600,000.00	38,020,000.00				
22,990.00	-	7,292.00	66,490.00	-	34,300,000.00	160,500,000.00	38,020,000.00				
23,680.00	0.06	55,210.00	-	47,170,000.00	168,600,000.00	41,590,000.00					
23,680.00	0.07	59,560.00	-	60,220,000.00	168,600,000.00	41,590,000.00					
23,680.00	-	4,249.00	56,110.00	-	41,370,000.00	169,100,000.00	41,590,000.00				
23,680.00	-	4,249.00	63,020.00	-	79,070,000.00	168,000,000.00	41,590,000.00				
23,680.00	-	11,540.00	59,560.00	10,280,000.00	168,600,000.00	41,240,000.00					
23,680.00	-	11,540.00	59,560.00	10,280,000.00	168,600,000.00	41,240,000.00					
23,680.00	-	7,292.00	58,660.00	4,477,000.00	168,000,000.00	41,240,000.00					
23,680.00	-	15,790.00	56,110.00	29,130,000.00	169,100,000.00	41,240,000.00					
23,680.00	-	7,292.00	63,020.00	-	8,570,000.00	168,000,000.00	41,240,000.00				
23,680.00	-	15,790.00	56,110.00	29,130,000.00	169,100,000.00	41,240,000.00					
23,680.00	-	7,292.00	63,020.00	-	8,570,000.00	168,000,000.00	41,240,000.00				
22,990.00	-	4,249.00	68,060.00	-	101,100,000.00	161,000,000.00	38,370,000.00				
22,990.00	-	11,540.00	64,600.00	-	11,750,000.00	161,500,000.00	38,020,000.00				
22,990.00	-	11,540.00	64,600.00	-	11,750,000.00	161,500,000.00	38,020,000.00				
22,990.00	-	15,790.00	56,790.00	20,150,000.00	162,100,000.00	38,020,000.00					
22,990.00	-	15,790.00	61,150.00	7,101,000.00	162,100,000.00	38,020,000.00					
22,990.00	-	7,292.00	68,060.00	-	30,590,000.00	161,000,000.00	38,020,000.00				
22,990.00	-	15,790.00	61,150.00	7,101,000.00	162,100,000.00	38,020,000.00					
22,990.00	-	7,292.00	68,060.00	-	30,590,000.00	161,000,000.00	38,020,000.00				
23,680.00	0.06	59,860.00	-	53,930,000.00	168,100,000.00	41,590,000.00					
23,680.00	0.07	64,220.00	-	66,970,000.00	168,100,000.00	41,590,000.00					
23,680.00	-	4,249.00	63,320.00	-	72,770,000.00	167,500,000.00	41,590,000.00				
23,680.00	-	4,249.00	67,670.00	-	85,820,000.00	167,500,000.00	41,590,000.00				
23,680.00	-	4,249.00	60,760.00	-	48,130,000.00	168,600,000.00	41,590,000.00				
23,680.00	-	4,249.00	67,670.00	-	85,820,000.00	167,500,000.00	41,590,000.00				
23,680.00	-	11,540.00	59,860.00	16,570,000.00	168,100,000.00	41,240,000.00					
23,680.00	-	11,540.00	64,220.00	3,524,000.00	168,100,000.00	41,240,000.00					
23,680.00	-	11,540.00	64,220.00	3,524,000.00	168,100,000.00	41,240,000.00					
23,680.00	-	15,790.00	56,410.00	35,420,000.00	168,600,000.00	41,240,000.00					
23,680.00	-	7,292.00	63,320.00	-	2,278,000.00	167,500,000.00	41,240,000.00				
23,680.00	-	15,790.00	60,760.00	22,370,000.00	168,600,000.00	41,240,000.00					
23,680.00	-	7,292.00	67,670.00	-	15,320,000.00	167,500,000.00	41,240,000.00				
23,680.00	-	15,790.00	60,760.00	22,370,000.00	168,600,000.00	41,240,000.00					
23,680.00	-	7,292.00	67,670.00	-	15,320,000.00	167,500,000.00	41,240,000.00				
22,990.00	0.08	69,260.00	-	89,000,000.00	161,000,000.00	38,370,000.00					
22,990.00	0.08	69,260.00	-	89,000,000.00	161,000,000.00	38,370,000.00					
22,990.00	-	4,249.00	68,360.00	-	94,800,000.00	160,500,000.00	38,370,000.00				
22,990.00	-	4,249.00	61,450.00	-	57,100,000.00	161,600,000.00	38,370,000.00				
22,990.00	-	4,249.00	68,360.00	-	94,800,000.00	160,500,000.00	38,370,000.00				
22,990.00	-	4,249.00	65,800.00	-	70,150,000.00	161,600,000.00	38,370,000.00				
22,990.00	-	11,540.00	64,900.00	-	5,455,000.00	161,000,000.00	38,020,000.00				
22,990.00	-	11,540.00	64,900.00	-	5,455,000.00	161,000,000.00	38,020,000.00				
22,990.00	-	11,540.00	69,260.00	-	18,500,000.00	161,000,000.00	38,020,000.00				
22,990.00	-	11,540.00	69,260.00	-	18,500,000.00	161,000,000.00	38,020,000.00				
22,990.00	-	15,790.00	61,450.00	13,390,000.00	161,600,000.00	38,020,000.00					
22,990.00	-	15,790.00	61,450.00	13,390,000.00	161,600,000.00	38,020,000.00					
22,990.00	-	7,292.00	68,360.00	-	24,300,000.00	160,500,000.00	38,020,000.00				
22,990.00	-	15,790.00	65,800.00	346,500.00	161,600,000.00	38,020,000.00					



<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 161 di 215

Reazioni vincolari - EQU												
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm		
	22,990.00	-	7,292.00		72,710.00	-	37,350,000.00		160,500,000.00		38,020,000.00	
	22,990.00	-	15,790.00		65,800.00		346,500.00		161,600,000.00		38,020,000.00	
	22,990.00	-	7,292.00		72,710.00	-	37,350,000.00		160,500,000.00		38,020,000.00	
	0.00	-	14,990.00		52,430.00		54,530,000.00	-	2,751,000.00	-	591,100.00	
	14,210.00	-	19,240.00		48,980.00		73,370,000.00		100,200,000.00		24,360,000.00	
	14,210.00	-	14,990.00		52,430.00		54,530,000.00		99,730,000.00		24,360,000.00	
	-	693.00	-	19,240.00		54,020.00		51,350,000.00	-	9,261,000.00	-	3,810,000.00
	-	693.00	-	23,490.00		50,560.00		70,200,000.00	-	8,737,000.00	-	3,810,000.00
	13,510.00		0.06		54,020.00	-	66,150,000.00		93,220,000.00		21,740,000.00	
	13,510.00	-	4,249.00		50,560.00	-	47,300,000.00		93,740,000.00		21,740,000.00	
	13,510.00	-	23,490.00		50,560.00		70,200,000.00		93,740,000.00		21,140,000.00	
	-	0.00	-	23,490.00		50,180.00		85,470,000.00	-	2,199,000.00	-	591,100.00
	0.00	-	14,990.00		57,090.00		47,770,000.00	-	3,246,000.00	-	591,100.00	
	14,210.00	-	23,490.00		50,180.00		85,470,000.00		100,300,000.00		24,360,000.00	
	-	693.00	-	19,240.00		58,670.00		44,590,000.00	-	9,756,000.00	-	3,810,000.00
	-	693.00	-	23,490.00		55,220.00		63,440,000.00	-	9,232,000.00	-	3,810,000.00
	13,510.00		0.06		58,670.00	-	72,900,000.00		92,720,000.00		21,740,000.00	
	13,510.00	-	4,249.00		55,220.00	-	54,050,000.00		93,240,000.00		21,740,000.00	
	13,510.00	-	19,240.00		58,670.00		44,590,000.00		92,720,000.00		21,140,000.00	
	0.00	-	14,990.00		58,660.00		51,470,000.00	-	2,751,000.00	-	591,100.00	
	14,210.00	-	14,990.00		58,660.00		51,470,000.00		99,730,000.00		24,360,000.00	
	-	693.00	-	23,490.00		56,790.00		67,150,000.00	-	8,737,000.00	-	3,810,000.00
	-	693.00	-	14,990.00		63,700.00		29,450,000.00	-	9,784,000.00	-	3,810,000.00
	13,510.00		0.06		60,250.00	-	69,200,000.00		93,220,000.00		21,740,000.00	
	13,510.00		4,249.00		63,700.00	-	88,050,000.00		92,690,000.00		21,740,000.00	
	13,510.00	-	14,990.00		63,700.00		29,450,000.00		92,690,000.00		21,140,000.00	
	0.00	-	19,240.00		59,860.00		63,570,000.00	-	2,723,000.00	-	591,100.00	
	-	0.00	-	23,490.00		56,410.00		82,420,000.00	-	2,199,000.00	-	591,100.00
	14,210.00	-	14,990.00		63,320.00		44,720,000.00		99,230,000.00		24,360,000.00	
	14,210.00	-	14,990.00		63,320.00		44,720,000.00		99,230,000.00		24,360,000.00	
	-	693.00	-	14,990.00		68,360.00		22,700,000.00	-	10,280,000.00	-	3,810,000.00
	13,510.00		0.07		64,900.00	-	75,950,000.00		92,720,000.00		21,740,000.00	
	13,510.00	-	4,249.00		61,450.00	-	57,100,000.00		93,240,000.00		21,740,000.00	
	13,510.00		4,249.00		68,360.00	-	94,800,000.00		92,200,000.00		21,740,000.00	
	13,510.00	-	19,240.00		64,900.00		41,540,000.00		92,720,000.00		21,140,000.00	
	13,510.00	-	23,490.00		61,450.00		60,390,000.00		93,240,000.00		21,140,000.00	
	13,510.00	-	14,990.00		68,360.00		22,700,000.00		92,200,000.00		21,140,000.00	
	13,510.00	-	23,490.00		61,450.00		60,390,000.00		93,240,000.00		21,140,000.00	
	13,510.00	-	14,990.00		68,360.00		22,700,000.00		92,200,000.00		21,140,000.00	
	0.00	-	19,240.00		48,980.00		73,370,000.00	-	2,228,000.00	-	591,100.00	
	-	0.00	-	23,490.00		45,520.00		92,220,000.00	-	1,704,000.00	-	591,100.00
	0.00	-	14,990.00		52,430.00		54,530,000.00	-	2,751,000.00	-	591,100.00	
	-	0.00	-	23,490.00		45,520.00		92,220,000.00	-	1,704,000.00	-	591,100.00
	0.00	-	14,990.00		52,430.00		54,530,000.00	-	2,751,000.00	-	591,100.00	
	14,210.00	-	19,240.00		48,980.00		73,370,000.00		100,200,000.00		24,360,000.00	
	14,210.00	-	19,240.00		48,980.00		73,370,000.00		100,200,000.00		24,360,000.00	
	14,210.00	-	23,490.00		45,520.00		92,220,000.00		100,800,000.00		24,360,000.00	
	14,210.00	-	14,990.00		52,430.00		54,530,000.00		99,730,000.00		24,360,000.00	
	14,210.00	-	23,490.00		45,520.00		92,220,000.00		100,800,000.00		24,360,000.00	
	14,210.00	-	14,990.00		52,430.00		54,530,000.00		99,730,000.00		24,360,000.00	
	-	693.00	-	23,490.00		50,560.00		70,200,000.00	-	8,737,000.00	-	3,810,000.00
	-	693.00	-	14,990.00		57,470.00		32,500,000.00	-	9,784,000.00	-	3,810,000.00
	13,510.00		0.06		54,020.00	-	66,150,000.00		93,220,000.00		21,740,000.00	
	13,510.00	-	4,249.00		50,560.00	-	47,300,000.00		93,740,000.00		21,740,000.00	
	13,510.00		4,249.00		57,470.00	-	84,990,000.00		92,690,000.00		21,740,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 162 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
13,510.00	-	19,240.00	54,020.00	51,350,000.00	93,220,000.00	21,140,000.00				
13,510.00	-	19,240.00	54,020.00	51,350,000.00	93,220,000.00	21,140,000.00				
13,510.00	-	23,490.00	50,560.00	70,200,000.00	93,740,000.00	21,140,000.00				
13,510.00	-	14,990.00	57,470.00	32,500,000.00	92,690,000.00	21,140,000.00				
13,510.00	-	23,490.00	50,560.00	70,200,000.00	93,740,000.00	21,140,000.00				
13,510.00	-	14,990.00	57,470.00	32,500,000.00	92,690,000.00	21,140,000.00				
0.00	-	14,990.00	57,090.00	47,770,000.00	- 3,246,000.00	- 591,100.00				
14,210.00	-	19,240.00	53,630.00	66,620,000.00	99,750,000.00	24,360,000.00				
14,210.00	-	19,240.00	53,630.00	66,620,000.00	99,750,000.00	24,360,000.00				
14,210.00	-	23,490.00	50,180.00	85,470,000.00	100,300,000.00	24,360,000.00				
14,210.00	-	14,990.00	57,090.00	47,770,000.00	99,230,000.00	24,360,000.00				
-	693.00	-	23,490.00	55,220.00	63,440,000.00	- 9,232,000.00	- 3,810,000.00			
13,510.00		0.06	58,670.00	- 72,900,000.00	92,720,000.00	21,740,000.00				
13,510.00		4,249.00	62,130.00	- 91,750,000.00	92,200,000.00	21,740,000.00				
13,510.00	-	4,249.00	55,220.00	- 54,050,000.00	93,240,000.00	21,740,000.00				
13,510.00		4,249.00	62,130.00	- 91,750,000.00	92,200,000.00	21,740,000.00				
13,510.00	-	19,240.00	58,670.00	44,590,000.00	92,720,000.00	21,140,000.00				
13,510.00	-	23,490.00	55,220.00	63,440,000.00	93,240,000.00	21,140,000.00				
13,510.00	-	14,990.00	62,130.00	25,750,000.00	92,200,000.00	21,140,000.00				
13,510.00	-	23,490.00	55,220.00	63,440,000.00	93,240,000.00	21,140,000.00				
13,510.00	-	14,990.00	62,130.00	25,750,000.00	92,200,000.00	21,140,000.00				
0.00	-	19,240.00	55,210.00	70,320,000.00	- 2,228,000.00	- 591,100.00				
0.00	-	14,990.00	58,660.00	51,470,000.00	- 2,751,000.00	- 591,100.00				
14,210.00	-	19,240.00	55,210.00	70,320,000.00	100,200,000.00	24,360,000.00				
14,210.00	-	23,490.00	51,750.00	89,170,000.00	100,800,000.00	24,360,000.00				
14,210.00	-	14,990.00	58,660.00	51,470,000.00	99,730,000.00	24,360,000.00				
-	693.00	-	19,240.00	60,250.00	48,300,000.00	- 9,261,000.00	- 3,810,000.00			
-	693.00	-	14,990.00	63,700.00	29,450,000.00	- 9,784,000.00	- 3,810,000.00			
13,510.00		0.06	60,250.00	- 69,200,000.00	93,220,000.00	21,740,000.00				
13,510.00	-	4,249.00	56,790.00	- 50,350,000.00	93,740,000.00	21,740,000.00				
13,510.00	-	4,249.00	56,790.00	- 50,350,000.00	93,740,000.00	21,740,000.00				
13,510.00		4,249.00	63,700.00	- 88,050,000.00	92,690,000.00	21,740,000.00				
13,510.00	-	19,240.00	60,250.00	48,300,000.00	93,220,000.00	21,140,000.00				
13,510.00	-	19,240.00	60,250.00	48,300,000.00	93,220,000.00	21,140,000.00				
13,510.00	-	23,490.00	56,790.00	67,150,000.00	93,740,000.00	21,140,000.00				
13,510.00	-	14,990.00	63,700.00	29,450,000.00	92,690,000.00	21,140,000.00				
0.00	-	19,240.00	59,860.00	63,570,000.00	- 2,723,000.00	- 591,100.00				
-	0.00	-	23,490.00	56,410.00	82,420,000.00	- 2,199,000.00	- 591,100.00			
0.00	-	14,990.00	63,320.00	44,720,000.00	- 3,246,000.00	- 591,100.00				
14,210.00	-	19,240.00	59,860.00	63,570,000.00	99,750,000.00	24,360,000.00				
14,210.00	-	23,490.00	56,410.00	82,420,000.00	100,300,000.00	24,360,000.00				
14,210.00	-	14,990.00	63,320.00	44,720,000.00	99,230,000.00	24,360,000.00				
-	693.00	-	23,490.00	61,450.00	60,390,000.00	- 9,232,000.00	- 3,810,000.00			
13,510.00		0.07	64,900.00	- 75,950,000.00	92,720,000.00	21,740,000.00				
13,510.00	-	4,249.00	61,450.00	- 57,100,000.00	93,240,000.00	21,740,000.00				
13,510.00		4,249.00	68,360.00	- 94,800,000.00	92,200,000.00	21,740,000.00				
13,510.00	-	19,240.00	64,900.00	41,540,000.00	92,720,000.00	21,140,000.00				
13,510.00	-	23,490.00	61,450.00	60,390,000.00	93,240,000.00	21,140,000.00				
13,510.00	-	14,990.00	68,360.00	22,700,000.00	92,200,000.00	21,140,000.00				
-	0.00	-	19,240.00	48,980.00	73,370,000.00	- 2,228,000.00	- 591,100.00			
-	0.00	-	23,490.00	49,880.00	79,170,000.00	- 1,704,000.00	- 591,100.00			
14,210.00	-	19,240.00	53,330.00	60,330,000.00	100,200,000.00	24,360,000.00				
14,210.00	-	19,240.00	53,330.00	60,330,000.00	100,200,000.00	24,360,000.00				
14,210.00	-	23,490.00	45,520.00	92,220,000.00	100,800,000.00	24,360,000.00				

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 163 di 215

Reazioni vincolari - EQU											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
	14,210.00	-	23,490.00		49,880.00	79,170,000.00		100,800,000.00		24,360,000.00	
	14,210.00	-	14,990.00		56,790.00	41,480,000.00		99,730,000.00		24,360,000.00	
	14,210.00	-	23,490.00		49,880.00	79,170,000.00		100,800,000.00		24,360,000.00	
	14,210.00	-	14,990.00		56,790.00	41,480,000.00		99,730,000.00		24,360,000.00	
-	693.00	-	14,990.00		57,470.00	32,500,000.00	-	9,784,000.00	-	3,810,000.00	
-	693.00	-	23,490.00		54,920.00	57,150,000.00	-	8,737,000.00	-	3,810,000.00	
-	693.00	-	14,990.00		61,830.00	19,450,000.00	-	9,784,000.00	-	3,810,000.00	
	13,510.00		0.06		54,020.00	-	66,150,000.00		93,220,000.00		21,740,000.00
	13,510.00		0.07		58,370.00	-	79,190,000.00		93,220,000.00		21,740,000.00
	13,510.00		0.07		58,370.00	-	79,190,000.00		93,220,000.00		21,740,000.00
	13,510.00		4,249.00		57,470.00	-	84,990,000.00		92,690,000.00		21,740,000.00
	13,510.00	-	4,249.00		50,560.00	-	47,300,000.00		93,740,000.00		21,740,000.00
	13,510.00		4,249.00		57,470.00	-	84,990,000.00		92,690,000.00		21,740,000.00
	13,510.00	-	4,249.00		54,920.00	-	60,350,000.00		93,740,000.00		21,740,000.00
	13,510.00		4,249.00		61,830.00	-	98,040,000.00		92,690,000.00		21,740,000.00
	13,510.00	-	4,249.00		54,920.00	-	60,350,000.00		93,740,000.00		21,740,000.00
	13,510.00		4,249.00		61,830.00	-	98,040,000.00		92,690,000.00		21,740,000.00
	13,510.00	-	19,240.00		54,020.00		51,350,000.00		93,220,000.00		21,140,000.00
	13,510.00	-	19,240.00		58,370.00		38,300,000.00		93,220,000.00		21,140,000.00
	13,510.00	-	19,240.00		58,370.00		38,300,000.00		93,220,000.00		21,140,000.00
	13,510.00	-	14,990.00		57,470.00		32,500,000.00		92,690,000.00		21,140,000.00
	13,510.00	-	23,490.00		54,920.00		57,150,000.00		93,740,000.00		21,140,000.00
	13,510.00	-	14,990.00		61,830.00		19,450,000.00		92,690,000.00		21,140,000.00
	13,510.00	-	23,490.00		54,920.00		57,150,000.00		93,740,000.00		21,140,000.00
	13,510.00	-	14,990.00		61,830.00		19,450,000.00		92,690,000.00		21,140,000.00
	0.00	-	19,240.00		53,630.00		66,620,000.00	-	2,723,000.00	-	591,100.00
	0.00	-	23,490.00		54,530.00		72,420,000.00	-	2,199,000.00	-	591,100.00
	0.00	-	14,990.00		61,450.00		34,720,000.00	-	3,246,000.00	-	591,100.00
	0.00	-	23,490.00		54,530.00		72,420,000.00	-	2,199,000.00	-	591,100.00
	0.00	-	14,990.00		61,450.00		34,720,000.00	-	3,246,000.00	-	591,100.00
	14,210.00	-	19,240.00		53,630.00		66,620,000.00		99,750,000.00		24,360,000.00
	14,210.00	-	19,240.00		57,990.00		53,570,000.00		99,750,000.00		24,360,000.00
	14,210.00	-	19,240.00		57,990.00		53,570,000.00		99,750,000.00		24,360,000.00
	14,210.00	-	23,490.00		50,180.00		85,470,000.00		100,300,000.00		24,360,000.00
	14,210.00	-	14,990.00		57,090.00		47,770,000.00		99,230,000.00		24,360,000.00
	14,210.00	-	14,990.00		57,090.00		47,770,000.00		99,230,000.00		24,360,000.00
	14,210.00	-	23,490.00		54,530.00		72,420,000.00		100,300,000.00		24,360,000.00
	14,210.00	-	14,990.00		61,450.00		34,720,000.00		99,230,000.00		24,360,000.00
	14,210.00	-	23,490.00		54,530.00		72,420,000.00		100,300,000.00		24,360,000.00
	14,210.00	-	14,990.00		61,450.00		34,720,000.00		99,230,000.00		24,360,000.00
-	693.00	-	14,990.00		66,490.00		12,700,000.00	-	10,280,000.00	-	3,810,000.00
	13,510.00		0.06		58,670.00	-	72,900,000.00		92,720,000.00		21,740,000.00
	13,510.00		0.07		63,030.00	-	85,950,000.00		92,720,000.00		21,740,000.00
	13,510.00		0.07		63,030.00	-	85,950,000.00		92,720,000.00		21,740,000.00
	13,510.00	-	4,249.00		55,220.00	-	54,050,000.00		93,240,000.00		21,740,000.00
	13,510.00		4,249.00		62,130.00	-	91,750,000.00		92,200,000.00		21,740,000.00
	13,510.00	-	4,249.00		59,570.00	-	67,100,000.00		93,240,000.00		21,740,000.00
	13,510.00		4,249.00		66,490.00	-	104,800,000.00		92,200,000.00		21,740,000.00
	13,510.00	-	4,249.00		59,570.00	-	67,100,000.00		93,240,000.00		21,740,000.00
	13,510.00		4,249.00		66,490.00	-	104,800,000.00		92,200,000.00		21,740,000.00
	13,510.00	-	19,240.00		58,670.00		44,590,000.00		92,720,000.00		21,140,000.00
	13,510.00	-	19,240.00		63,030.00		31,550,000.00		92,720,000.00		21,140,000.00
	13,510.00	-	19,240.00		63,030.00		31,550,000.00		92,720,000.00		21,140,000.00
	13,510.00	-	23,490.00		55,220.00		63,440,000.00		93,240,000.00		21,140,000.00
	13,510.00	-	14,990.00		62,130.00		25,750,000.00		92,200,000.00		21,140,000.00

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 164 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
	13,510.00	-	23,490.00		59,570.00	50,390,000.00		93,240,000.00		21,140,000.00
	13,510.00	-	14,990.00		66,490.00	12,700,000.00		92,200,000.00		21,140,000.00
	13,510.00	-	23,490.00		59,570.00	50,390,000.00		93,240,000.00		21,140,000.00
	13,510.00	-	14,990.00		66,490.00	12,700,000.00		92,200,000.00		21,140,000.00
	0.00	-	19,240.00		59,560.00	57,280,000.00	-	2,228,000.00	-	591,100.00
	0.00	-	19,240.00		59,560.00	57,280,000.00	-	2,228,000.00	-	591,100.00
	-	0.00	23,490.00		51,750.00	89,170,000.00	-	1,704,000.00	-	591,100.00
	0.00	-	14,990.00		58,660.00	51,470,000.00	-	2,751,000.00	-	591,100.00
	-	0.00	23,490.00		56,110.00	76,120,000.00	-	1,704,000.00	-	591,100.00
	-	0.00	23,490.00		56,110.00	76,120,000.00	-	1,704,000.00	-	591,100.00
	14,210.00	-	19,240.00		55,210.00	70,320,000.00		100,200,000.00		24,360,000.00
	14,210.00	-	19,240.00		55,210.00	70,320,000.00		100,200,000.00		24,360,000.00
	14,210.00	-	19,240.00		59,560.00	57,280,000.00		100,200,000.00		24,360,000.00
	14,210.00	-	19,240.00		59,560.00	57,280,000.00		100,200,000.00		24,360,000.00
	14,210.00	-	23,490.00		51,750.00	89,170,000.00		100,800,000.00		24,360,000.00
	14,210.00	-	14,990.00		58,660.00	51,470,000.00		99,730,000.00		24,360,000.00
	14,210.00	-	23,490.00		51,750.00	89,170,000.00		100,800,000.00		24,360,000.00
	14,210.00	-	23,490.00		56,110.00	76,120,000.00		100,800,000.00		24,360,000.00
	14,210.00	-	14,990.00		63,020.00	38,430,000.00		99,730,000.00		24,360,000.00
	14,210.00	-	23,490.00		56,110.00	76,120,000.00		100,800,000.00		24,360,000.00
	14,210.00	-	14,990.00		63,020.00	38,430,000.00		99,730,000.00		24,360,000.00
	-	693.00	-	19,240.00	60,250.00	48,300,000.00	-	9,261,000.00	-	3,810,000.00
	-	693.00	-	19,240.00	64,600.00	35,250,000.00	-	9,261,000.00	-	3,810,000.00
	-	693.00	-	23,490.00	56,790.00	67,150,000.00	-	8,737,000.00	-	3,810,000.00
	-	693.00	-	23,490.00	61,150.00	54,100,000.00	-	8,737,000.00	-	3,810,000.00
	-	693.00	-	14,990.00	68,060.00	16,400,000.00	-	9,784,000.00	-	3,810,000.00
	-	693.00	-	14,990.00	68,060.00	16,400,000.00	-	9,784,000.00	-	3,810,000.00
	13,510.00		0.06		60,250.00	-	69,200,000.00	93,220,000.00		21,740,000.00
	13,510.00		0.07		64,600.00	-	82,240,000.00	93,220,000.00		21,740,000.00
	13,510.00		0.07		64,600.00	-	82,240,000.00	93,220,000.00		21,740,000.00
	13,510.00	-	4,249.00		56,790.00	-	50,350,000.00	93,740,000.00		21,740,000.00
	13,510.00		4,249.00		63,700.00	-	88,050,000.00	92,690,000.00		21,740,000.00
	13,510.00	-	4,249.00		61,150.00	-	63,400,000.00	93,740,000.00		21,740,000.00
	13,510.00		4,249.00		68,060.00	-	101,100,000.00	92,690,000.00		21,740,000.00
	13,510.00	-	4,249.00		61,150.00	-	63,400,000.00	93,740,000.00		21,740,000.00
	13,510.00		4,249.00		68,060.00	-	101,100,000.00	92,690,000.00		21,740,000.00
	13,510.00	-	19,240.00		60,250.00	48,300,000.00		93,220,000.00		21,140,000.00
	13,510.00	-	19,240.00		64,600.00	35,250,000.00		93,220,000.00		21,140,000.00
	13,510.00	-	19,240.00		64,600.00	35,250,000.00		93,220,000.00		21,140,000.00
	13,510.00	-	23,490.00		56,790.00	67,150,000.00		93,740,000.00		21,140,000.00
	13,510.00	-	14,990.00		63,700.00	29,450,000.00		92,690,000.00		21,140,000.00
	13,510.00	-	23,490.00		56,790.00	67,150,000.00		93,740,000.00		21,140,000.00
	13,510.00	-	23,490.00		61,150.00	54,100,000.00		93,740,000.00		21,140,000.00
	13,510.00	-	14,990.00		68,060.00	16,400,000.00		92,690,000.00		21,140,000.00
	13,510.00	-	23,490.00		61,150.00	54,100,000.00		93,740,000.00		21,140,000.00
	13,510.00	-	14,990.00		68,060.00	16,400,000.00		92,690,000.00		21,140,000.00
	0.00	-	14,990.00		63,320.00	44,720,000.00	-	3,246,000.00	-	591,100.00
	0.00	-	14,990.00		63,320.00	44,720,000.00	-	3,246,000.00	-	591,100.00
	0.00	-	23,490.00		60,760.00	69,370,000.00	-	2,199,000.00	-	591,100.00
	14,210.00	-	19,240.00		59,860.00	63,570,000.00		99,750,000.00		24,360,000.00
	14,210.00	-	19,240.00		59,860.00	63,570,000.00		99,750,000.00		24,360,000.00
	14,210.00	-	19,240.00		64,220.00	50,520,000.00		99,750,000.00		24,360,000.00
	14,210.00	-	19,240.00		64,220.00	50,520,000.00		99,750,000.00		24,360,000.00
	14,210.00	-	23,490.00		56,410.00	82,420,000.00		100,300,000.00		24,360,000.00
	14,210.00	-	23,490.00		60,760.00	69,370,000.00		100,300,000.00		24,360,000.00

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17    Lotto 10    Codifica Documento EI2CLOC000006    Rev. A    Foglio 165 di 215

Reazioni vincolari - EQU												
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm		
	14,210.00	-	14,990.00		67,670.00	31,670,000.00		99,230,000.00		24,360,000.00		
	14,210.00	-	23,490.00		60,760.00	69,370,000.00		100,300,000.00		24,360,000.00		
	14,210.00	-	14,990.00		67,670.00	31,670,000.00		99,230,000.00		24,360,000.00		
	-	693.00	-	19,240.00		64,900.00	41,540,000.00	-	9,756,000.00	-	3,810,000.00	
	-	693.00	-	19,240.00		69,260.00	28,500,000.00	-	9,756,000.00	-	3,810,000.00	
	-	693.00	-	14,990.00		68,360.00	22,700,000.00	-	10,280,000.00	-	3,810,000.00	
	-	693.00	-	23,490.00		65,800.00	47,340,000.00	-	9,232,000.00	-	3,810,000.00	
	-	693.00	-	14,990.00		72,710.00	9,649,000.00	-	10,280,000.00	-	3,810,000.00	
	-	693.00	-	23,490.00		65,800.00	47,340,000.00	-	9,232,000.00	-	3,810,000.00	
	-	693.00	-	14,990.00		72,710.00	9,649,000.00	-	10,280,000.00	-	3,810,000.00	
	13,510.00		0.07		64,900.00	-	75,950,000.00		92,720,000.00		21,740,000.00	
	13,510.00		0.08		69,260.00	-	89,000,000.00		92,720,000.00		21,740,000.00	
	13,510.00		0.08		69,260.00	-	89,000,000.00		92,720,000.00		21,740,000.00	
	13,510.00	-	4,249.00		61,450.00	-	57,100,000.00		93,240,000.00		21,740,000.00	
	13,510.00		4,249.00		68,360.00	-	94,800,000.00		92,200,000.00		21,740,000.00	
	13,510.00	-	4,249.00		65,800.00	-	70,150,000.00		93,240,000.00		21,740,000.00	
	13,510.00		4,249.00		72,710.00	-	107,800,000.00		92,200,000.00		21,740,000.00	
	13,510.00	-	4,249.00		65,800.00	-	70,150,000.00		93,240,000.00		21,740,000.00	
	13,510.00		4,249.00		72,710.00	-	107,800,000.00		92,200,000.00		21,740,000.00	
	13,510.00	-	19,240.00		64,900.00	41,540,000.00		92,720,000.00		21,140,000.00		
	13,510.00	-	19,240.00		69,260.00	28,500,000.00		92,720,000.00		21,140,000.00		
	13,510.00	-	19,240.00		69,260.00	28,500,000.00		92,720,000.00		21,140,000.00		
	13,510.00	-	23,490.00		65,800.00	47,340,000.00		93,240,000.00		21,140,000.00		
	13,510.00	-	14,990.00		72,710.00	9,649,000.00		92,200,000.00		21,140,000.00		
	13,510.00	-	23,490.00		65,800.00	47,340,000.00		93,240,000.00		21,140,000.00		
	13,510.00	-	14,990.00		72,710.00	9,649,000.00		92,200,000.00		21,140,000.00		
	-	14,210.00	-	23,490.00		45,520.00	92,220,000.00	-	104,200,000.00	-	25,550,000.00	
	-	14,900.00	-	4,249.00		50,560.00	-	47,300,000.00	-	111,200,000.00	-	28,170,000.00
	-	14,900.00		4,249.00		57,470.00	-	84,990,000.00	-	112,300,000.00	-	28,170,000.00
	-	14,900.00		4,249.00		57,470.00	-	84,990,000.00	-	112,300,000.00	-	28,170,000.00
	-	14,900.00	-	19,240.00		54,020.00	51,350,000.00	-	111,700,000.00	-	28,760,000.00	
	-	0.00	-	23,490.00		50,180.00	85,470,000.00	-	2,199,000.00	-	591,100.00	
	0.00	-	14,990.00		57,090.00	47,770,000.00	-	3,246,000.00	-	591,100.00		
	-	14,210.00	-	19,240.00		53,630.00	66,620,000.00	-	105,200,000.00	-	25,550,000.00	
	-	14,210.00	-	19,240.00		53,630.00	66,620,000.00	-	105,200,000.00	-	25,550,000.00	
	-	14,210.00	-	14,990.00		57,090.00	47,770,000.00	-	105,700,000.00	-	25,550,000.00	
	-	14,210.00	-	23,490.00		50,180.00	85,470,000.00	-	104,700,000.00	-	25,550,000.00	
	-	14,210.00	-	14,990.00		57,090.00	47,770,000.00	-	105,700,000.00	-	25,550,000.00	
	-	14,900.00		0.04		58,670.00	-	72,900,000.00	-	112,200,000.00	-	28,170,000.00
	-	14,900.00		0.04		58,670.00	-	72,900,000.00	-	112,200,000.00	-	28,170,000.00
	-	14,900.00	-	4,249.00		55,220.00	-	54,050,000.00	-	111,700,000.00	-	28,170,000.00
	-	14,900.00		4,249.00		62,130.00	-	91,750,000.00	-	112,800,000.00	-	28,170,000.00
	-	14,900.00	-	23,490.00		55,220.00	63,440,000.00	-	111,700,000.00	-	28,760,000.00	
	-	14,900.00	-	23,490.00		55,220.00	63,440,000.00	-	111,700,000.00	-	28,760,000.00	
	-	14,900.00	-	14,990.00		62,130.00	25,750,000.00	-	112,800,000.00	-	28,760,000.00	
	0.00	-	19,240.00		55,210.00	70,320,000.00	-	2,228,000.00	-	591,100.00		
	-	0.00	-	19,240.00		55,210.00	70,320,000.00	-	2,228,000.00	-	591,100.00	
	-	14,210.00	-	19,240.00		55,210.00	70,320,000.00	-	104,700,000.00	-	25,550,000.00	
	-	14,900.00		0.03		60,250.00	-	69,200,000.00	-	111,700,000.00	-	28,170,000.00
	-	14,900.00	-	4,249.00		56,790.00	-	50,350,000.00	-	111,200,000.00	-	28,170,000.00
	-	14,900.00		4,249.00		63,700.00	-	88,040,000.00	-	112,300,000.00	-	28,170,000.00
	-	14,900.00	-	14,990.00		63,700.00	29,450,000.00	-	112,300,000.00	-	28,760,000.00	
	-	14,210.00	-	19,240.00		59,860.00	63,570,000.00	-	105,200,000.00	-	25,550,000.00	
	-	14,210.00	-	19,240.00		59,860.00	63,570,000.00	-	105,200,000.00	-	25,550,000.00	
	-	14,210.00	-	23,490.00		56,410.00	82,420,000.00	-	104,700,000.00	-	25,550,000.00	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45

Progetto  
IN17Lotto  
10Codifica Documento  
EI2CLOC000006Rev.  
AFoglio  
166 di 215

## Reazioni vincolari - EQU

Rx	N	Ry	N	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,210.00	-	14,990.00		63,320.00		44,720,000.00	-	105,700,000.00	-	25,550,000.00
-	693.00	-	19,240.00		64,900.00		41,540,000.00	-	9,756,000.00	-	3,810,000.00
-	693.00	-	23,490.00		61,450.00		60,390,000.00	-	9,232,000.00	-	3,810,000.00
-	14,900.00		4,249.00		68,360.00	-	94,800,000.00	-	112,800,000.00	-	28,170,000.00
-	14,900.00		4,249.00		68,360.00	-	94,800,000.00	-	112,800,000.00	-	28,170,000.00
-	14,900.00	-	19,240.00		64,900.00		41,540,000.00	-	112,200,000.00	-	28,760,000.00
-	14,900.00	-	23,490.00		61,450.00		60,390,000.00	-	111,700,000.00	-	28,760,000.00
-	14,900.00	-	23,490.00		61,450.00		60,390,000.00	-	111,700,000.00	-	28,760,000.00
	0.00	-	19,240.00		48,980.00		73,370,000.00	-	2,228,000.00	-	591,100.00
-	14,210.00	-	19,240.00		48,980.00		73,370,000.00	-	104,700,000.00	-	25,550,000.00
-	14,210.00	-	19,240.00		48,980.00		73,370,000.00	-	104,700,000.00	-	25,550,000.00
-	14,210.00	-	14,990.00		52,430.00		54,530,000.00	-	105,200,000.00	-	25,550,000.00
-	14,210.00	-	23,490.00		45,520.00		92,220,000.00	-	104,200,000.00	-	25,550,000.00
-	14,210.00	-	14,990.00		52,430.00		54,530,000.00	-	105,200,000.00	-	25,550,000.00
-	693.00	-	19,240.00		54,020.00		51,350,000.00	-	9,261,000.00	-	3,810,000.00
-	693.00	-	19,240.00		54,020.00		51,350,000.00	-	9,261,000.00	-	3,810,000.00
-	693.00	-	23,490.00		50,560.00		70,200,000.00	-	8,737,000.00	-	3,810,000.00
-	693.00	-	14,990.00		57,470.00		32,500,000.00	-	9,784,000.00	-	3,810,000.00
-	14,900.00		0.03		54,020.00	-	66,150,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		0.03		54,020.00	-	66,150,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		50,560.00	-	47,300,000.00	-	111,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		57,470.00	-	84,990,000.00	-	112,300,000.00	-	28,170,000.00
-	14,900.00	-	19,240.00		54,020.00		51,350,000.00	-	111,700,000.00	-	28,760,000.00
-	14,900.00	-	19,240.00		54,020.00		51,350,000.00	-	111,700,000.00	-	28,760,000.00
-	14,900.00	-	23,490.00		50,560.00		70,200,000.00	-	111,200,000.00	-	28,760,000.00
-	14,900.00	-	23,490.00		50,560.00		70,200,000.00	-	111,200,000.00	-	28,760,000.00
-	14,900.00	-	14,990.00		57,470.00		32,500,000.00	-	112,300,000.00	-	28,760,000.00
	0.00	-	19,240.00		53,630.00		66,620,000.00	-	2,723,000.00	-	591,100.00
-	0.00	-	23,490.00		50,180.00		85,470,000.00	-	2,199,000.00	-	591,100.00
-	14,210.00	-	19,240.00		53,630.00		66,620,000.00	-	105,200,000.00	-	25,550,000.00
-	14,210.00	-	23,490.00		50,180.00		85,470,000.00	-	104,700,000.00	-	25,550,000.00
-	14,210.00	-	14,990.00		57,090.00		47,770,000.00	-	105,700,000.00	-	25,550,000.00
-	693.00	-	19,240.00		58,670.00		44,590,000.00	-	9,756,000.00	-	3,810,000.00
-	693.00	-	19,240.00		58,670.00		44,590,000.00	-	9,756,000.00	-	3,810,000.00
-	693.00	-	23,490.00		55,220.00		63,440,000.00	-	9,232,000.00	-	3,810,000.00
-	693.00	-	14,990.00		62,130.00		25,750,000.00	-	10,280,000.00	-	3,810,000.00
-	14,900.00		0.04		58,670.00	-	72,900,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		55,220.00	-	54,050,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		55,220.00	-	54,050,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		4,249.00		62,130.00	-	91,750,000.00	-	112,800,000.00	-	28,170,000.00
-	14,900.00	-	19,240.00		58,670.00		44,590,000.00	-	112,200,000.00	-	28,760,000.00
-	14,900.00	-	23,490.00		55,220.00		63,440,000.00	-	111,700,000.00	-	28,760,000.00
-	14,900.00	-	14,990.00		62,130.00		25,750,000.00	-	112,800,000.00	-	28,760,000.00
-	0.00	-	23,490.00		51,750.00		89,170,000.00	-	1,704,000.00	-	591,100.00
-	0.00	-	23,490.00		51,750.00		89,170,000.00	-	1,704,000.00	-	591,100.00
-	14,210.00	-	19,240.00		55,210.00		70,320,000.00	-	104,700,000.00	-	25,550,000.00
-	14,210.00	-	19,240.00		55,210.00		70,320,000.00	-	104,700,000.00	-	25,550,000.00
-	14,210.00	-	23,490.00		51,750.00		89,170,000.00	-	104,200,000.00	-	25,550,000.00
-	14,210.00	-	14,990.00		58,660.00		51,470,000.00	-	105,200,000.00	-	25,550,000.00
-	14,210.00	-	23,490.00		51,750.00		89,170,000.00	-	104,200,000.00	-	25,550,000.00
-	14,210.00	-	14,990.00		58,660.00		51,470,000.00	-	105,200,000.00	-	25,550,000.00
-	693.00	-	19,240.00		60,250.00		48,300,000.00	-	9,261,000.00	-	3,810,000.00
-	693.00	-	23,490.00		56,790.00		67,150,000.00	-	8,737,000.00	-	3,810,000.00
-	14,900.00		0.03		60,250.00	-	69,200,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		56,790.00	-	50,350,000.00	-	111,200,000.00	-	28,170,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 167 di 215

Reazioni vincolari - EQU											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	14,900.00		4,249.00		63,700.00	-	88,040,000.00	-	112,300,000.00	-	28,170,000.00
-	14,900.00		19,240.00		60,250.00		48,300,000.00	-	111,700,000.00	-	28,760,000.00
-	14,900.00		23,490.00		56,790.00		67,150,000.00	-	111,200,000.00	-	28,760,000.00
-	14,900.00		14,990.00		63,700.00		29,450,000.00	-	112,300,000.00	-	28,760,000.00
-	14,210.00		19,240.00		59,860.00		63,570,000.00	-	105,200,000.00	-	25,550,000.00
-	14,210.00		23,490.00		56,410.00		82,420,000.00	-	104,700,000.00	-	25,550,000.00
-	14,210.00		14,990.00		63,320.00		44,720,000.00	-	105,700,000.00	-	25,550,000.00
-	693.00		19,240.00		64,900.00		41,540,000.00	-	9,756,000.00	-	3,810,000.00
-	693.00		23,490.00		61,450.00		60,390,000.00	-	9,232,000.00	-	3,810,000.00
-	693.00		14,990.00		68,360.00		22,700,000.00	-	10,280,000.00	-	3,810,000.00
-	14,900.00		0.04		64,900.00	-	75,950,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		61,450.00	-	57,100,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		4,249.00		68,360.00	-	94,800,000.00	-	112,800,000.00	-	28,170,000.00
-	14,900.00		19,240.00		64,900.00		41,540,000.00	-	112,200,000.00	-	28,760,000.00
-	14,900.00		14,990.00		68,360.00		22,700,000.00	-	112,800,000.00	-	28,760,000.00
-	14,900.00		23,490.00		61,450.00		60,390,000.00	-	111,700,000.00	-	28,760,000.00
-	14,900.00		14,990.00		68,360.00		22,700,000.00	-	112,800,000.00	-	28,760,000.00
	0.00		19,240.00		53,330.00		60,330,000.00	-	2,228,000.00	-	591,100.00
	0.00		19,240.00		53,330.00		60,330,000.00	-	2,228,000.00	-	591,100.00
-	0.00		23,490.00		45,520.00		92,220,000.00	-	1,704,000.00	-	591,100.00
	0.00		14,990.00		56,790.00		41,480,000.00	-	2,751,000.00	-	591,100.00
-	0.00		23,490.00		49,880.00		79,170,000.00	-	1,704,000.00	-	591,100.00
	0.00		14,990.00		56,790.00		41,480,000.00	-	2,751,000.00	-	591,100.00
-	14,210.00		19,240.00		48,980.00		73,370,000.00	-	104,700,000.00	-	25,550,000.00
-	14,210.00		19,240.00		53,330.00		60,330,000.00	-	104,700,000.00	-	25,550,000.00
-	14,210.00		19,240.00		53,330.00		60,330,000.00	-	104,700,000.00	-	25,550,000.00
-	14,210.00		23,490.00		45,520.00		92,220,000.00	-	104,200,000.00	-	25,550,000.00
-	14,210.00		14,990.00		52,430.00		54,530,000.00	-	105,200,000.00	-	25,550,000.00
-	14,210.00		23,490.00		49,880.00		79,170,000.00	-	104,200,000.00	-	25,550,000.00
-	14,210.00		14,990.00		56,790.00		41,480,000.00	-	105,200,000.00	-	25,550,000.00
-	14,210.00		23,490.00		49,880.00		79,170,000.00	-	104,200,000.00	-	25,550,000.00
-	14,210.00		14,990.00		56,790.00		41,480,000.00	-	105,200,000.00	-	25,550,000.00
-	693.00		19,240.00		58,370.00		38,300,000.00	-	9,261,000.00	-	3,810,000.00
-	693.00		19,240.00		58,370.00		38,300,000.00	-	9,261,000.00	-	3,810,000.00
-	693.00		23,490.00		54,920.00		57,150,000.00	-	8,737,000.00	-	3,810,000.00
-	693.00		14,990.00		61,830.00		19,450,000.00	-	9,784,000.00	-	3,810,000.00
-	14,900.00		0.03		54,020.00	-	66,150,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		0.04		58,370.00	-	79,190,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		0.04		58,370.00	-	79,190,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		4,249.00		50,560.00	-	47,300,000.00	-	111,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		54,920.00	-	60,350,000.00	-	111,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		61,830.00	-	98,040,000.00	-	112,300,000.00	-	28,170,000.00
-	14,900.00		4,249.00		54,920.00	-	60,350,000.00	-	111,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		61,830.00	-	98,040,000.00	-	112,300,000.00	-	28,170,000.00
-	14,900.00		19,240.00		58,370.00		38,300,000.00	-	111,700,000.00	-	28,760,000.00
-	14,900.00		19,240.00		58,370.00		38,300,000.00	-	111,700,000.00	-	28,760,000.00
-	14,900.00		14,990.00		57,470.00		32,500,000.00	-	112,300,000.00	-	28,760,000.00
-	14,900.00		23,490.00		50,560.00		70,200,000.00	-	111,200,000.00	-	28,760,000.00
-	14,900.00		14,990.00		57,470.00		32,500,000.00	-	112,300,000.00	-	28,760,000.00
-	14,900.00		23,490.00		54,920.00		57,150,000.00	-	111,200,000.00	-	28,760,000.00
-	14,900.00		14,990.00		61,830.00		19,450,000.00	-	112,300,000.00	-	28,760,000.00
-	14,900.00		23,490.00		54,920.00		57,150,000.00	-	111,200,000.00	-	28,760,000.00
-	14,900.00		14,990.00		61,830.00		19,450,000.00	-	112,300,000.00	-	28,760,000.00
	0.00		19,240.00		53,630.00		66,620,000.00	-	2,723,000.00	-	591,100.00
	0.00		19,240.00		57,990.00		53,570,000.00	-	2,723,000.00	-	591,100.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 168 di 215

Reazioni vincolari - EQU											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
	0.00	-	19,240.00		57,990.00	53,570,000.00	-	2,723,000.00	-	591,100.00	
-	14,210.00	-	19,240.00		57,990.00	53,570,000.00	-	105,200,000.00	-	25,550,000.00	
-	14,210.00	-	19,240.00		57,990.00	53,570,000.00	-	105,200,000.00	-	25,550,000.00	
-	14,210.00	-	23,490.00		50,180.00	85,470,000.00	-	104,700,000.00	-	25,550,000.00	
-	14,210.00	-	23,490.00		54,530.00	72,420,000.00	-	104,700,000.00	-	25,550,000.00	
-	14,210.00	-	14,990.00		61,450.00	34,720,000.00	-	105,700,000.00	-	25,550,000.00	
-	14,210.00	-	23,490.00		54,530.00	72,420,000.00	-	104,700,000.00	-	25,550,000.00	
-	14,210.00	-	14,990.00		61,450.00	34,720,000.00	-	105,700,000.00	-	25,550,000.00	
-	693.00	-	19,240.00		63,030.00	31,550,000.00	-	9,756,000.00	-	3,810,000.00	
-	693.00	-	19,240.00		63,030.00	31,550,000.00	-	9,756,000.00	-	3,810,000.00	
-	693.00	-	14,990.00		62,130.00	25,750,000.00	-	10,280,000.00	-	3,810,000.00	
-	693.00	-	14,990.00		62,130.00	25,750,000.00	-	10,280,000.00	-	3,810,000.00	
-	693.00	-	23,490.00		59,570.00	50,400,000.00	-	9,232,000.00	-	3,810,000.00	
-	693.00	-	23,490.00		59,570.00	50,400,000.00	-	9,232,000.00	-	3,810,000.00	
-	693.00	-	14,990.00		66,490.00	12,700,000.00	-	10,280,000.00	-	3,810,000.00	
-	14,900.00		0.05		63,030.00	-	85,950,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		0.05		63,030.00	-	85,950,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		62,130.00	-	91,750,000.00	-	112,800,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		59,570.00	-	67,100,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		4,249.00		66,490.00	-	104,800,000.00	-	112,800,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		59,570.00	-	67,100,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		4,249.00		66,490.00	-	104,800,000.00	-	112,800,000.00	-	28,170,000.00
-	14,900.00	-	19,240.00		58,670.00	44,590,000.00	-	112,200,000.00	-	28,760,000.00	
-	14,900.00	-	19,240.00		58,670.00	44,590,000.00	-	112,200,000.00	-	28,760,000.00	
-	14,900.00	-	19,240.00		63,030.00	31,550,000.00	-	112,200,000.00	-	28,760,000.00	
-	14,900.00	-	19,240.00		63,030.00	31,550,000.00	-	112,200,000.00	-	28,760,000.00	
-	14,900.00	-	14,990.00		62,130.00	25,750,000.00	-	112,800,000.00	-	28,760,000.00	
-	14,900.00	-	23,490.00		59,570.00	50,400,000.00	-	111,700,000.00	-	28,760,000.00	
-	14,900.00	-	14,990.00		66,490.00	12,700,000.00	-	112,800,000.00	-	28,760,000.00	
-	14,900.00	-	23,490.00		59,570.00	50,400,000.00	-	111,700,000.00	-	28,760,000.00	
-	14,900.00	-	14,990.00		66,490.00	12,700,000.00	-	112,800,000.00	-	28,760,000.00	
	0.00	-	14,990.00		63,020.00	38,430,000.00	-	2,751,000.00	-	591,100.00	
	0.00	-	14,990.00		63,020.00	38,430,000.00	-	2,751,000.00	-	591,100.00	
-	14,210.00	-	19,240.00		59,560.00	57,280,000.00	-	104,700,000.00	-	25,550,000.00	
-	14,210.00	-	19,240.00		59,560.00	57,280,000.00	-	104,700,000.00	-	25,550,000.00	
-	14,210.00	-	23,490.00		51,750.00	89,170,000.00	-	104,200,000.00	-	25,550,000.00	
-	14,210.00	-	14,990.00		58,660.00	51,470,000.00	-	105,200,000.00	-	25,550,000.00	
-	14,210.00	-	23,490.00		56,110.00	76,120,000.00	-	104,200,000.00	-	25,550,000.00	
-	14,210.00	-	14,990.00		63,020.00	38,430,000.00	-	105,200,000.00	-	25,550,000.00	
-	14,210.00	-	23,490.00		56,110.00	76,120,000.00	-	104,200,000.00	-	25,550,000.00	
-	14,210.00	-	14,990.00		63,020.00	38,430,000.00	-	105,200,000.00	-	25,550,000.00	
-	693.00	-	19,240.00		64,600.00	35,250,000.00	-	9,261,000.00	-	3,810,000.00	
-	693.00	-	14,990.00		63,700.00	29,450,000.00	-	9,784,000.00	-	3,810,000.00	
-	693.00	-	23,490.00		61,150.00	54,100,000.00	-	8,737,000.00	-	3,810,000.00	
-	14,900.00		0.03		60,250.00	-	69,200,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		0.04		64,600.00	-	82,240,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		0.04		64,600.00	-	82,240,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		56,790.00	-	50,350,000.00	-	111,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		63,700.00	-	88,040,000.00	-	112,300,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		61,150.00	-	63,400,000.00	-	111,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		68,060.00	-	101,100,000.00	-	112,300,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		61,150.00	-	63,400,000.00	-	111,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		68,060.00	-	101,100,000.00	-	112,300,000.00	-	28,170,000.00
-	14,900.00	-	19,240.00		60,250.00	48,300,000.00	-	111,700,000.00	-	28,760,000.00	
-	14,900.00	-	19,240.00		60,250.00	48,300,000.00	-	111,700,000.00	-	28,760,000.00	



<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 169 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,900.00	-	19,240.00	64,600.00	35,250,000.00	-	111,700,000.00	-	28,760,000.00	-
-	14,900.00	-	19,240.00	64,600.00	35,250,000.00	-	111,700,000.00	-	28,760,000.00	-
-	14,900.00	-	23,490.00	56,790.00	67,150,000.00	-	111,200,000.00	-	28,760,000.00	-
-	14,900.00	-	14,990.00	63,700.00	29,450,000.00	-	112,300,000.00	-	28,760,000.00	-
-	14,900.00	-	23,490.00	56,790.00	67,150,000.00	-	111,200,000.00	-	28,760,000.00	-
-	14,900.00	-	23,490.00	61,150.00	54,100,000.00	-	111,200,000.00	-	28,760,000.00	-
-	14,900.00	-	14,990.00	68,060.00	16,400,000.00	-	112,300,000.00	-	28,760,000.00	-
-	14,900.00	-	23,490.00	61,150.00	54,100,000.00	-	111,200,000.00	-	28,760,000.00	-
-	14,900.00	-	14,990.00	68,060.00	16,400,000.00	-	112,300,000.00	-	28,760,000.00	-
0.00	-	19,240.00	59,860.00	63,570,000.00	-	2,723,000.00	-	591,100.00	-	-
0.00	-	19,240.00	64,220.00	50,520,000.00	-	2,723,000.00	-	591,100.00	-	-
0.00	-	19,240.00	64,220.00	50,520,000.00	-	2,723,000.00	-	591,100.00	-	-
-	0.00	-	23,490.00	56,410.00	82,420,000.00	-	2,199,000.00	-	591,100.00	-
0.00	-	23,490.00	60,760.00	69,370,000.00	-	2,199,000.00	-	591,100.00	-	-
0.00	-	14,990.00	67,670.00	31,670,000.00	-	3,246,000.00	-	591,100.00	-	-
0.00	-	14,990.00	67,670.00	31,670,000.00	-	3,246,000.00	-	591,100.00	-	-
-	14,210.00	-	19,240.00	64,220.00	50,520,000.00	-	105,200,000.00	-	25,550,000.00	-
-	14,210.00	-	19,240.00	64,220.00	50,520,000.00	-	105,200,000.00	-	25,550,000.00	-
-	14,210.00	-	23,490.00	56,410.00	82,420,000.00	-	104,700,000.00	-	25,550,000.00	-
-	14,210.00	-	14,990.00	63,320.00	44,720,000.00	-	105,700,000.00	-	25,550,000.00	-
-	14,210.00	-	23,490.00	60,760.00	69,370,000.00	-	104,700,000.00	-	25,550,000.00	-
-	14,210.00	-	14,990.00	67,670.00	31,670,000.00	-	105,700,000.00	-	25,550,000.00	-
-	14,210.00	-	14,990.00	67,670.00	31,670,000.00	-	105,700,000.00	-	25,550,000.00	-
-	693.00	-	19,240.00	69,260.00	28,500,000.00	-	9,756,000.00	-	3,810,000.00	-
-	14,900.00	0.04	64,900.00	-	75,950,000.00	-	112,200,000.00	-	28,170,000.00	-
-	14,900.00	0.04	64,900.00	-	75,950,000.00	-	112,200,000.00	-	28,170,000.00	-
-	14,900.00	0.05	69,260.00	-	89,000,000.00	-	112,200,000.00	-	28,170,000.00	-
-	14,900.00	0.05	69,260.00	-	89,000,000.00	-	112,200,000.00	-	28,170,000.00	-
-	14,900.00	-	4,249.00	61,450.00	-	57,100,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	61,450.00	-	57,100,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	65,800.00	-	70,150,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	72,710.00	-	107,800,000.00	-	112,800,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	65,800.00	-	70,150,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	72,710.00	-	107,800,000.00	-	112,800,000.00	-	28,170,000.00
-	14,900.00	-	19,240.00	64,900.00	41,540,000.00	-	112,200,000.00	-	28,760,000.00	-
-	14,900.00	-	19,240.00	69,260.00	28,500,000.00	-	112,200,000.00	-	28,760,000.00	-
-	14,900.00	-	19,240.00	69,260.00	28,500,000.00	-	112,200,000.00	-	28,760,000.00	-
-	14,900.00	-	14,990.00	68,360.00	22,700,000.00	-	112,800,000.00	-	28,760,000.00	-
-	14,900.00	-	23,490.00	65,800.00	47,340,000.00	-	111,700,000.00	-	28,760,000.00	-
-	14,900.00	-	14,990.00	72,710.00	9,649,000.00	-	112,800,000.00	-	28,760,000.00	-
-	14,900.00	-	23,490.00	65,800.00	47,340,000.00	-	111,700,000.00	-	28,760,000.00	-
-	14,900.00	-	14,990.00	72,710.00	9,649,000.00	-	112,800,000.00	-	28,760,000.00	-
0.00	-	17,700.00	48,980.00	-	149,600,000.00	-	2,228,000.00	-	591,100.00	-
14,210.00	-	13,450.00	45,520.00	-	130,700,000.00	100,800,000.00	-	25,550,000.00	-	-
14,210.00	-	21,950.00	52,430.00	-	168,400,000.00	99,730,000.00	-	25,550,000.00	-	-
13,510.00	-	13,450.00	50,560.00	-	152,800,000.00	93,740,000.00	-	22,330,000.00	-	-
13,510.00	-	13,450.00	50,560.00	-	152,800,000.00	93,740,000.00	-	22,330,000.00	-	-
0.00	-	13,450.00	50,180.00	-	137,500,000.00	-	2,199,000.00	-	591,100.00	-
0.00	-	21,950.00	57,090.00	-	175,200,000.00	-	3,246,000.00	-	591,100.00	-
14,210.00	-	17,700.00	53,630.00	-	156,300,000.00	99,750,000.00	-	25,550,000.00	-	-
14,210.00	-	13,450.00	50,180.00	-	137,500,000.00	100,300,000.00	-	25,550,000.00	-	-
14,210.00	-	21,950.00	57,090.00	-	175,200,000.00	99,230,000.00	-	25,550,000.00	-	-
-	693.00	-	17,700.00	58,670.00	-	178,400,000.00	-	9,756,000.00	-	2,628,000.00
-	693.00	-	13,450.00	55,220.00	-	159,500,000.00	-	9,232,000.00	-	2,628,000.00

<b>GENERAL CONTRACTOR</b>   <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>   <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17    Lotto 10    Codifica Documento EI2CLOC000006    Rev. A    Foglio 170 di 215

Reazioni vincolari - EQU											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	693.00		21,950.00		62,130.00	-	197,200,000.00	-	10,280,000.00	-	2,628,000.00
	13,510.00		17,700.00		58,670.00	-	178,400,000.00		92,720,000.00		22,330,000.00
	13,510.00		21,950.00		62,130.00	-	197,200,000.00		92,200,000.00		22,330,000.00
	0.00		13,450.00		51,750.00	-	133,800,000.00	-	1,704,000.00		591,100.00
	0.00		21,950.00		58,660.00	-	171,500,000.00	-	2,751,000.00		591,100.00
	14,210.00		17,700.00		55,210.00	-	152,600,000.00		100,200,000.00		25,550,000.00
	14,210.00		17,700.00		55,210.00	-	152,600,000.00		100,200,000.00		25,550,000.00
	14,210.00		21,950.00		58,660.00	-	171,500,000.00		99,730,000.00		25,550,000.00
	13,510.00		17,700.00		60,250.00	-	174,700,000.00		93,220,000.00		22,330,000.00
	13,510.00		13,450.00		56,790.00	-	155,800,000.00		93,740,000.00		22,330,000.00
	13,510.00		13,450.00		56,790.00	-	155,800,000.00		93,740,000.00		22,330,000.00
	14,210.00		21,950.00		63,320.00	-	178,200,000.00		99,230,000.00		25,550,000.00
-	693.00		17,700.00		64,900.00	-	181,400,000.00	-	9,756,000.00	-	2,628,000.00
	13,510.00		17,700.00		64,900.00	-	181,400,000.00		92,720,000.00		22,330,000.00
	14,210.00		17,700.00		48,980.00	-	149,600,000.00		100,200,000.00		25,550,000.00
	14,210.00		17,700.00		48,980.00	-	149,600,000.00		100,200,000.00		25,550,000.00
	14,210.00		13,450.00		45,520.00	-	130,700,000.00		100,800,000.00		25,550,000.00
	14,210.00		21,950.00		52,430.00	-	168,400,000.00		99,730,000.00		25,550,000.00
-	693.00		17,700.00		54,020.00	-	171,600,000.00	-	9,261,000.00	-	2,628,000.00
-	693.00		13,450.00		50,560.00	-	152,800,000.00	-	8,737,000.00	-	2,628,000.00
-	693.00		21,950.00		57,470.00	-	190,500,000.00	-	9,784,000.00	-	2,628,000.00
-	693.00		13,450.00		50,560.00	-	152,800,000.00	-	8,737,000.00	-	2,628,000.00
-	693.00		21,950.00		57,470.00	-	190,500,000.00	-	9,784,000.00	-	2,628,000.00
	13,510.00		17,700.00		54,020.00	-	171,600,000.00		93,220,000.00		22,330,000.00
	13,510.00		13,450.00		50,560.00	-	152,800,000.00		93,740,000.00		22,330,000.00
	13,510.00		21,950.00		57,470.00	-	190,500,000.00		92,690,000.00		22,330,000.00
	0.00		13,450.00		50,180.00	-	137,500,000.00	-	2,199,000.00		591,100.00
	0.00		21,950.00		57,090.00	-	175,200,000.00	-	3,246,000.00		591,100.00
	14,210.00		17,700.00		53,630.00	-	156,300,000.00		99,750,000.00		25,550,000.00
	14,210.00		13,450.00		50,180.00	-	137,500,000.00		100,300,000.00		25,550,000.00
	14,210.00		21,950.00		57,090.00	-	175,200,000.00		99,230,000.00		25,550,000.00
	14,210.00		13,450.00		50,180.00	-	137,500,000.00		100,300,000.00		25,550,000.00
	14,210.00		21,950.00		57,090.00	-	175,200,000.00		99,230,000.00		25,550,000.00
-	693.00		17,700.00		58,670.00	-	178,400,000.00	-	9,756,000.00	-	2,628,000.00
-	693.00		13,450.00		55,220.00	-	159,500,000.00	-	9,232,000.00	-	2,628,000.00
-	693.00		21,950.00		62,130.00	-	197,200,000.00	-	10,280,000.00	-	2,628,000.00
-	693.00		13,450.00		55,220.00	-	159,500,000.00	-	9,232,000.00	-	2,628,000.00
-	693.00		21,950.00		62,130.00	-	197,200,000.00	-	10,280,000.00	-	2,628,000.00
	13,510.00		17,700.00		58,670.00	-	178,400,000.00		92,720,000.00		22,330,000.00
	13,510.00		13,450.00		55,220.00	-	159,500,000.00		93,240,000.00		22,330,000.00
	13,510.00		21,950.00		62,130.00	-	197,200,000.00		92,200,000.00		22,330,000.00
	14,210.00		17,700.00		55,210.00	-	152,600,000.00		100,200,000.00		25,550,000.00
	14,210.00		13,450.00		51,750.00	-	133,800,000.00		100,800,000.00		25,550,000.00
	14,210.00		21,950.00		58,660.00	-	171,500,000.00		99,730,000.00		25,550,000.00
-	693.00		17,700.00		60,250.00	-	174,700,000.00	-	9,261,000.00	-	2,628,000.00
-	693.00		13,450.00		56,790.00	-	155,800,000.00	-	8,737,000.00	-	2,628,000.00
-	693.00		21,950.00		63,700.00	-	193,500,000.00	-	9,784,000.00	-	2,628,000.00
	13,510.00		17,700.00		60,250.00	-	174,700,000.00		93,220,000.00		22,330,000.00
	13,510.00		21,950.00		63,700.00	-	193,500,000.00		92,690,000.00		22,330,000.00
	13,510.00		13,450.00		56,790.00	-	155,800,000.00		93,740,000.00		22,330,000.00
	13,510.00		21,950.00		63,700.00	-	193,500,000.00		92,690,000.00		22,330,000.00
	0.00		17,700.00		59,860.00	-	159,400,000.00	-	2,723,000.00		591,100.00
	0.00		13,450.00		56,410.00	-	140,500,000.00	-	2,199,000.00		591,100.00
	0.00		21,950.00		63,320.00	-	178,200,000.00	-	3,246,000.00		591,100.00
	14,210.00		17,700.00		59,860.00	-	159,400,000.00		99,750,000.00		25,550,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 171 di 215

Reazioni vincolari - EQU											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
	14,210.00		13,450.00		56,410.00	-	140,500,000.00	100,300,000.00		25,550,000.00	
	14,210.00		21,950.00		63,320.00	-	178,200,000.00	99,230,000.00		25,550,000.00	
-	693.00		17,700.00		64,900.00	-	181,400,000.00	-	9,756,000.00	-	2,628,000.00
-	693.00		13,450.00		61,450.00	-	162,600,000.00	-	9,232,000.00	-	2,628,000.00
-	693.00		13,450.00		61,450.00	-	162,600,000.00	-	9,232,000.00	-	2,628,000.00
-	693.00		21,950.00		68,360.00	-	200,300,000.00	-	10,280,000.00	-	2,628,000.00
	13,510.00		17,700.00		64,900.00	-	181,400,000.00	92,720,000.00		22,330,000.00	
	13,510.00		13,450.00		61,450.00	-	162,600,000.00	93,240,000.00		22,330,000.00	
	13,510.00		21,950.00		68,360.00	-	200,300,000.00	92,200,000.00		22,330,000.00	
	0.00		17,700.00		53,330.00	-	162,600,000.00	-	2,228,000.00		591,100.00
	0.00		13,450.00		45,520.00	-	130,700,000.00	-	1,704,000.00		591,100.00
	0.00		21,950.00		52,430.00	-	168,400,000.00	-	2,751,000.00		591,100.00
	0.00		13,450.00		49,880.00	-	143,800,000.00	-	1,704,000.00		591,100.00
	0.00		21,950.00		56,790.00	-	181,500,000.00	-	2,751,000.00		591,100.00
	0.00		13,450.00		49,880.00	-	143,800,000.00	-	1,704,000.00		591,100.00
	14,210.00		17,700.00		48,980.00	-	149,600,000.00	100,200,000.00		25,550,000.00	
	14,210.00		17,700.00		53,330.00	-	162,600,000.00	100,200,000.00		25,550,000.00	
	14,210.00		17,700.00		53,330.00	-	162,600,000.00	100,200,000.00		25,550,000.00	
	14,210.00		13,450.00		45,520.00	-	130,700,000.00	100,800,000.00		25,550,000.00	
	14,210.00		21,950.00		52,430.00	-	168,400,000.00	99,730,000.00		25,550,000.00	
	14,210.00		13,450.00		49,880.00	-	143,800,000.00	100,800,000.00		25,550,000.00	
	14,210.00		21,950.00		56,790.00	-	181,500,000.00	99,730,000.00		25,550,000.00	
	14,210.00		13,450.00		49,880.00	-	143,800,000.00	100,800,000.00		25,550,000.00	
	14,210.00		21,950.00		56,790.00	-	181,500,000.00	99,730,000.00		25,550,000.00	
-	693.00		17,700.00		54,020.00	-	171,600,000.00	-	9,261,000.00	-	2,628,000.00
-	693.00		13,450.00		54,920.00	-	165,800,000.00	-	8,737,000.00	-	2,628,000.00
	13,510.00		17,700.00		54,020.00	-	171,600,000.00	93,220,000.00		22,330,000.00	
	13,510.00		17,700.00		54,020.00	-	171,600,000.00	93,220,000.00		22,330,000.00	
	13,510.00		17,700.00		58,370.00	-	184,700,000.00	93,220,000.00		22,330,000.00	
	13,510.00		17,700.00		58,370.00	-	184,700,000.00	93,220,000.00		22,330,000.00	
	13,510.00		21,950.00		57,470.00	-	190,500,000.00	92,690,000.00		22,330,000.00	
	13,510.00		21,950.00		57,470.00	-	190,500,000.00	92,690,000.00		22,330,000.00	
	13,510.00		13,450.00		54,920.00	-	165,800,000.00	93,740,000.00		22,330,000.00	
	13,510.00		21,950.00		61,830.00	-	203,500,000.00	92,690,000.00		22,330,000.00	
	13,510.00		13,450.00		54,920.00	-	165,800,000.00	93,740,000.00		22,330,000.00	
	13,510.00		21,950.00		61,830.00	-	203,500,000.00	92,690,000.00		22,330,000.00	
	0.00		17,700.00		57,990.00	-	169,400,000.00	-	2,723,000.00		591,100.00
	0.00		17,700.00		57,990.00	-	169,400,000.00	-	2,723,000.00		591,100.00
	14,210.00		17,700.00		53,630.00	-	156,300,000.00	99,750,000.00		25,550,000.00	
	14,210.00		17,700.00		57,990.00	-	169,400,000.00	99,750,000.00		25,550,000.00	
	14,210.00		17,700.00		57,990.00	-	169,400,000.00	99,750,000.00		25,550,000.00	
	14,210.00		13,450.00		54,530.00	-	150,500,000.00	100,300,000.00		25,550,000.00	
	14,210.00		21,950.00		61,450.00	-	188,200,000.00	99,230,000.00		25,550,000.00	
	14,210.00		13,450.00		54,530.00	-	150,500,000.00	100,300,000.00		25,550,000.00	
	14,210.00		21,950.00		61,450.00	-	188,200,000.00	99,230,000.00		25,550,000.00	
-	693.00		17,700.00		63,030.00	-	191,400,000.00	-	9,756,000.00	-	2,628,000.00
-	693.00		17,700.00		63,030.00	-	191,400,000.00	-	9,756,000.00	-	2,628,000.00
-	693.00		13,450.00		59,570.00	-	172,600,000.00	-	9,232,000.00	-	2,628,000.00
	13,510.00		17,700.00		58,670.00	-	178,400,000.00	92,720,000.00		22,330,000.00	
	13,510.00		17,700.00		63,030.00	-	191,400,000.00	92,720,000.00		22,330,000.00	
	13,510.00		17,700.00		63,030.00	-	191,400,000.00	92,720,000.00		22,330,000.00	
	13,510.00		13,450.00		55,220.00	-	159,500,000.00	93,240,000.00		22,330,000.00	
	13,510.00		21,950.00		62,130.00	-	197,200,000.00	92,200,000.00		22,330,000.00	
	13,510.00		13,450.00		55,220.00	-	159,500,000.00	93,240,000.00		22,330,000.00	
	13,510.00		13,450.00		59,570.00	-	172,600,000.00	93,240,000.00		22,330,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 172 di 215

Reazioni vincolari - EQU						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
13,510.00	21,950.00	66,490.00	- 210,300,000.00	92,200,000.00	22,330,000.00	
13,510.00	13,450.00	59,570.00	- 172,600,000.00	93,240,000.00	22,330,000.00	
13,510.00	21,950.00	66,490.00	- 210,300,000.00	92,200,000.00	22,330,000.00	
0.00	17,700.00	55,210.00	- 152,600,000.00	- 2,228,000.00	591,100.00	
0.00	17,700.00	59,560.00	- 165,700,000.00	- 2,228,000.00	591,100.00	
0.00	13,450.00	56,110.00	- 146,800,000.00	- 1,704,000.00	591,100.00	
0.00	21,950.00	63,020.00	- 184,500,000.00	- 2,751,000.00	591,100.00	
0.00	13,450.00	56,110.00	- 146,800,000.00	- 1,704,000.00	591,100.00	
0.00	21,950.00	63,020.00	- 184,500,000.00	- 2,751,000.00	591,100.00	
14,210.00	17,700.00	59,560.00	- 165,700,000.00	100,200,000.00	25,550,000.00	
14,210.00	17,700.00	59,560.00	- 165,700,000.00	100,200,000.00	25,550,000.00	
14,210.00	13,450.00	51,750.00	- 133,800,000.00	100,800,000.00	25,550,000.00	
14,210.00	21,950.00	58,660.00	- 171,500,000.00	99,730,000.00	25,550,000.00	
14,210.00	13,450.00	51,750.00	- 133,800,000.00	100,800,000.00	25,550,000.00	
14,210.00	13,450.00	56,110.00	- 146,800,000.00	100,800,000.00	25,550,000.00	
14,210.00	21,950.00	63,020.00	- 184,500,000.00	99,730,000.00	25,550,000.00	
14,210.00	13,450.00	56,110.00	- 146,800,000.00	100,800,000.00	25,550,000.00	
14,210.00	21,950.00	63,020.00	- 184,500,000.00	99,730,000.00	25,550,000.00	
- 693.00	13,450.00	61,150.00	- 168,900,000.00	- 8,737,000.00	- 2,628,000.00	
- 693.00	21,950.00	68,060.00	- 206,600,000.00	- 9,784,000.00	- 2,628,000.00	
- 693.00	21,950.00	68,060.00	- 206,600,000.00	- 9,784,000.00	- 2,628,000.00	
13,510.00	17,700.00	60,250.00	- 174,700,000.00	93,220,000.00	22,330,000.00	
13,510.00	17,700.00	64,600.00	- 187,700,000.00	93,220,000.00	22,330,000.00	
13,510.00	17,700.00	64,600.00	- 187,700,000.00	93,220,000.00	22,330,000.00	
13,510.00	21,950.00	63,700.00	- 193,500,000.00	92,690,000.00	22,330,000.00	
13,510.00	13,450.00	61,150.00	- 168,900,000.00	93,740,000.00	22,330,000.00	
13,510.00	21,950.00	68,060.00	- 206,600,000.00	92,690,000.00	22,330,000.00	
13,510.00	13,450.00	61,150.00	- 168,900,000.00	93,740,000.00	22,330,000.00	
13,510.00	21,950.00	68,060.00	- 206,600,000.00	92,690,000.00	22,330,000.00	
0.00	17,700.00	59,860.00	- 159,400,000.00	- 2,723,000.00	591,100.00	
0.00	17,700.00	59,860.00	- 159,400,000.00	- 2,723,000.00	591,100.00	
0.00	13,450.00	56,410.00	- 140,500,000.00	- 2,199,000.00	591,100.00	
0.00	21,950.00	63,320.00	- 178,200,000.00	- 3,246,000.00	591,100.00	
0.00	21,950.00	67,670.00	- 191,300,000.00	- 3,246,000.00	591,100.00	
14,210.00	17,700.00	59,860.00	- 159,400,000.00	99,750,000.00	25,550,000.00	
14,210.00	17,700.00	59,860.00	- 159,400,000.00	99,750,000.00	25,550,000.00	
14,210.00	17,700.00	64,220.00	- 172,400,000.00	99,750,000.00	25,550,000.00	
14,210.00	17,700.00	64,220.00	- 172,400,000.00	99,750,000.00	25,550,000.00	
14,210.00	13,450.00	56,410.00	- 140,500,000.00	100,300,000.00	25,550,000.00	
14,210.00	13,450.00	56,410.00	- 140,500,000.00	100,300,000.00	25,550,000.00	
14,210.00	21,950.00	63,320.00	- 178,200,000.00	99,230,000.00	25,550,000.00	
14,210.00	13,450.00	60,760.00	- 153,600,000.00	100,300,000.00	25,550,000.00	
14,210.00	21,950.00	67,670.00	- 191,300,000.00	99,230,000.00	25,550,000.00	
14,210.00	13,450.00	60,760.00	- 153,600,000.00	100,300,000.00	25,550,000.00	
14,210.00	21,950.00	67,670.00	- 191,300,000.00	99,230,000.00	25,550,000.00	
- 693.00	17,700.00	64,900.00	- 181,400,000.00	- 9,756,000.00	- 2,628,000.00	
- 693.00	17,700.00	69,260.00	- 194,500,000.00	- 9,756,000.00	- 2,628,000.00	
- 693.00	17,700.00	69,260.00	- 194,500,000.00	- 9,756,000.00	- 2,628,000.00	
- 693.00	21,950.00	68,360.00	- 200,300,000.00	- 10,280,000.00	- 2,628,000.00	
- 693.00	21,950.00	72,710.00	- 213,300,000.00	- 10,280,000.00	- 2,628,000.00	
13,510.00	17,700.00	64,900.00	- 181,400,000.00	92,720,000.00	22,330,000.00	
13,510.00	17,700.00	69,260.00	- 194,500,000.00	92,720,000.00	22,330,000.00	
13,510.00	17,700.00	69,260.00	- 194,500,000.00	92,720,000.00	22,330,000.00	
13,510.00	13,450.00	61,450.00	- 162,600,000.00	93,240,000.00	22,330,000.00	
13,510.00	21,950.00	68,360.00	- 200,300,000.00	92,200,000.00	22,330,000.00	

<b>GENERAL CONTRACTOR</b>   <b>IFICAV2</b>		<b>ALTA SORVEGLIANZA</b>   <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 173 di 215

Reazioni vincolari - EQU											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
	13,510.00		13,450.00		61,450.00	-	162,600,000.00		93,240,000.00		22,330,000.00
	13,510.00		21,950.00		68,360.00	-	200,300,000.00		92,200,000.00		22,330,000.00
	13,510.00		13,450.00		65,800.00	-	175,600,000.00		93,240,000.00		22,330,000.00
	13,510.00		21,950.00		72,710.00	-	213,300,000.00		92,200,000.00		22,330,000.00
	13,510.00		13,450.00		65,800.00	-	175,600,000.00		93,240,000.00		22,330,000.00
	13,510.00		21,950.00		72,710.00	-	213,300,000.00		92,200,000.00		22,330,000.00
	0.00		13,450.00		45,520.00	-	130,700,000.00		- 1,704,000.00		591,100.00
	0.00		21,950.00		52,430.00	-	168,400,000.00		- 2,751,000.00		591,100.00
	- 14,210.00		13,450.00		45,520.00	-	130,700,000.00		- 104,200,000.00		- 24,360,000.00
	- 14,900.00		17,700.00		54,020.00	-	171,600,000.00		- 111,700,000.00		- 27,580,000.00
	- 14,900.00		17,700.00		54,020.00	-	171,600,000.00		- 111,700,000.00		- 27,580,000.00
	- 14,900.00		13,450.00		50,560.00	-	152,800,000.00		- 111,200,000.00		- 27,580,000.00
	- 14,900.00		21,950.00		57,470.00	-	190,500,000.00		- 112,300,000.00		- 27,580,000.00
	- 14,900.00		21,950.00		57,470.00	-	190,500,000.00		- 112,300,000.00		- 27,580,000.00
	0.00		17,700.00		53,630.00	-	156,300,000.00		- 2,723,000.00		591,100.00
	- 14,210.00		17,700.00		53,630.00	-	156,300,000.00		- 105,200,000.00		- 24,360,000.00
	- 14,210.00		13,450.00		50,180.00	-	137,500,000.00		- 104,700,000.00		- 24,360,000.00
	- 14,210.00		21,950.00		57,090.00	-	175,200,000.00		- 105,700,000.00		- 24,360,000.00
	- 14,210.00		13,450.00		50,180.00	-	137,500,000.00		- 104,700,000.00		- 24,360,000.00
	- 14,210.00		21,950.00		57,090.00	-	175,200,000.00		- 105,700,000.00		- 24,360,000.00
	- 14,900.00		17,700.00		58,670.00	-	178,400,000.00		- 112,200,000.00		- 27,580,000.00
	- 14,900.00		21,950.00		62,130.00	-	197,200,000.00		- 112,800,000.00		- 27,580,000.00
	0.00		17,700.00		55,210.00	-	152,600,000.00		- 2,228,000.00		591,100.00
	- 14,210.00		17,700.00		55,210.00	-	152,600,000.00		- 104,700,000.00		- 24,360,000.00
	- 14,210.00		17,700.00		55,210.00	-	152,600,000.00		- 104,700,000.00		- 24,360,000.00
	- 14,210.00		13,450.00		51,750.00	-	133,800,000.00		- 104,200,000.00		- 24,360,000.00
	- 14,210.00		21,950.00		58,660.00	-	171,500,000.00		- 105,200,000.00		- 24,360,000.00
	- 14,210.00		13,450.00		51,750.00	-	133,800,000.00		- 104,200,000.00		- 24,360,000.00
	- 14,210.00		21,950.00		58,660.00	-	171,500,000.00		- 105,200,000.00		- 24,360,000.00
	- 693.00		13,450.00		56,790.00	-	155,800,000.00		- 8,737,000.00		- 2,628,000.00
	- 693.00		21,950.00		63,700.00	-	193,500,000.00		- 9,784,000.00		- 2,628,000.00
	- 14,900.00		17,700.00		60,250.00	-	174,700,000.00		- 111,700,000.00		- 27,580,000.00
	- 14,900.00		13,450.00		56,790.00	-	155,800,000.00		- 111,200,000.00		- 27,580,000.00
	- 14,900.00		21,950.00		63,700.00	-	193,500,000.00		- 112,300,000.00		- 27,580,000.00
	- 14,900.00		13,450.00		56,790.00	-	155,800,000.00		- 111,200,000.00		- 27,580,000.00
	- 14,900.00		21,950.00		63,700.00	-	193,500,000.00		- 112,300,000.00		- 27,580,000.00
	0.00		13,450.00		56,410.00	-	140,500,000.00		- 2,199,000.00		591,100.00
	- 14,210.00		17,700.00		59,860.00	-	159,400,000.00		- 105,200,000.00		- 24,360,000.00
	- 14,210.00		13,450.00		56,410.00	-	140,500,000.00		- 104,700,000.00		- 24,360,000.00
	- 693.00		13,450.00		61,450.00	-	162,600,000.00		- 9,232,000.00		- 2,628,000.00
	- 14,900.00		13,450.00		61,450.00	-	162,600,000.00		- 111,700,000.00		- 27,580,000.00
	- 14,900.00		21,950.00		68,360.00	-	200,300,000.00		- 112,800,000.00		- 27,580,000.00
	0.00		17,700.00		48,980.00	-	149,600,000.00		- 2,228,000.00		591,100.00
	0.00		17,700.00		48,980.00	-	149,600,000.00		- 2,228,000.00		591,100.00
	0.00		13,450.00		45,520.00	-	130,700,000.00		- 1,704,000.00		591,100.00
	0.00		21,950.00		52,430.00	-	168,400,000.00		- 2,751,000.00		591,100.00
	- 14,210.00		17,700.00		48,980.00	-	149,600,000.00		- 104,700,000.00		- 24,360,000.00
	- 14,210.00		13,450.00		45,520.00	-	130,700,000.00		- 104,200,000.00		- 24,360,000.00
	- 14,210.00		21,950.00		52,430.00	-	168,400,000.00		- 105,200,000.00		- 24,360,000.00
	- 693.00		17,700.00		54,020.00	-	171,600,000.00		- 9,261,000.00		- 2,628,000.00
	- 14,900.00		17,700.00		54,020.00	-	171,600,000.00		- 111,700,000.00		- 27,580,000.00
	- 14,900.00		13,450.00		50,560.00	-	152,800,000.00		- 111,200,000.00		- 27,580,000.00
	- 14,900.00		21,950.00		57,470.00	-	190,500,000.00		- 112,300,000.00		- 27,580,000.00
	0.00		17,700.00		53,630.00	-	156,300,000.00		- 2,723,000.00		591,100.00
	0.00		21,950.00		57,090.00	-	175,200,000.00		- 3,246,000.00		591,100.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 174 di 215

Reazioni vincolari - EQU						
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>		<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>
-	14,210.00	17,700.00	53,630.00	- 156,300,000.00	- 105,200,000.00	- 24,360,000.00
-	14,210.00	13,450.00	50,180.00	- 137,500,000.00	- 104,700,000.00	- 24,360,000.00
-	14,210.00	21,950.00	57,090.00	- 175,200,000.00	- 105,700,000.00	- 24,360,000.00
-	14,900.00	17,700.00	58,670.00	- 178,400,000.00	- 112,200,000.00	- 27,580,000.00
-	14,900.00	17,700.00	58,670.00	- 178,400,000.00	- 112,200,000.00	- 27,580,000.00
-	14,900.00	13,450.00	55,220.00	- 159,500,000.00	- 111,700,000.00	- 27,580,000.00
-	14,900.00	21,950.00	62,130.00	- 197,200,000.00	- 112,800,000.00	- 27,580,000.00
0.00	17,700.00	17,700.00	55,210.00	- 152,600,000.00	- 2,228,000.00	591,100.00
0.00	13,450.00	13,450.00	51,750.00	- 133,800,000.00	- 1,704,000.00	591,100.00
0.00	21,950.00	21,950.00	58,660.00	- 171,500,000.00	- 2,751,000.00	591,100.00
-	14,210.00	17,700.00	55,210.00	- 152,600,000.00	- 104,700,000.00	- 24,360,000.00
-	14,210.00	13,450.00	51,750.00	- 133,800,000.00	- 104,200,000.00	- 24,360,000.00
-	14,210.00	21,950.00	58,660.00	- 171,500,000.00	- 105,200,000.00	- 24,360,000.00
-	693.00	13,450.00	56,790.00	- 155,800,000.00	- 8,737,000.00	- 2,628,000.00
-	693.00	21,950.00	63,700.00	- 193,500,000.00	- 9,784,000.00	- 2,628,000.00
-	14,900.00	17,700.00	60,250.00	- 174,700,000.00	- 111,700,000.00	- 27,580,000.00
-	14,900.00	17,700.00	60,250.00	- 174,700,000.00	- 111,700,000.00	- 27,580,000.00
-	14,900.00	13,450.00	56,790.00	- 155,800,000.00	- 111,200,000.00	- 27,580,000.00
-	14,900.00	21,950.00	63,700.00	- 193,500,000.00	- 112,300,000.00	- 27,580,000.00
0.00	21,950.00	21,950.00	63,320.00	- 178,200,000.00	- 3,246,000.00	591,100.00
-	14,210.00	17,700.00	59,860.00	- 159,400,000.00	- 105,200,000.00	- 24,360,000.00
-	14,210.00	17,700.00	59,860.00	- 159,400,000.00	- 105,200,000.00	- 24,360,000.00
-	14,210.00	13,450.00	56,410.00	- 140,500,000.00	- 104,700,000.00	- 24,360,000.00
-	14,210.00	21,950.00	63,320.00	- 178,200,000.00	- 105,700,000.00	- 24,360,000.00
-	14,900.00	17,700.00	64,900.00	- 181,400,000.00	- 112,200,000.00	- 27,580,000.00
-	14,900.00	13,450.00	61,450.00	- 162,600,000.00	- 111,700,000.00	- 27,580,000.00
-	14,900.00	21,950.00	68,360.00	- 200,300,000.00	- 112,800,000.00	- 27,580,000.00
-	14,900.00	13,450.00	61,450.00	- 162,600,000.00	- 111,700,000.00	- 27,580,000.00
-	14,900.00	21,950.00	68,360.00	- 200,300,000.00	- 112,800,000.00	- 27,580,000.00
0.00	17,700.00	17,700.00	53,330.00	- 162,600,000.00	- 2,228,000.00	591,100.00
0.00	21,950.00	21,950.00	56,790.00	- 181,500,000.00	- 2,751,000.00	591,100.00
-	14,210.00	17,700.00	48,980.00	- 149,600,000.00	- 104,700,000.00	- 24,360,000.00
-	14,210.00	17,700.00	48,980.00	- 149,600,000.00	- 104,700,000.00	- 24,360,000.00
-	14,210.00	17,700.00	53,330.00	- 162,600,000.00	- 104,700,000.00	- 24,360,000.00
-	14,210.00	17,700.00	53,330.00	- 162,600,000.00	- 104,700,000.00	- 24,360,000.00
-	14,210.00	21,950.00	52,430.00	- 168,400,000.00	- 105,200,000.00	- 24,360,000.00
-	14,210.00	13,450.00	45,520.00	- 130,700,000.00	- 104,200,000.00	- 24,360,000.00
-	14,210.00	21,950.00	52,430.00	- 168,400,000.00	- 105,200,000.00	- 24,360,000.00
-	14,210.00	13,450.00	49,880.00	- 143,800,000.00	- 104,200,000.00	- 24,360,000.00
-	14,210.00	21,950.00	56,790.00	- 181,500,000.00	- 105,200,000.00	- 24,360,000.00
-	14,210.00	13,450.00	49,880.00	- 143,800,000.00	- 104,200,000.00	- 24,360,000.00
-	14,210.00	21,950.00	56,790.00	- 181,500,000.00	- 105,200,000.00	- 24,360,000.00
-	693.00	17,700.00	58,370.00	- 184,700,000.00	- 9,261,000.00	- 2,628,000.00
-	693.00	17,700.00	58,370.00	- 184,700,000.00	- 9,261,000.00	- 2,628,000.00
-	693.00	13,450.00	50,560.00	- 152,800,000.00	- 8,737,000.00	- 2,628,000.00
-	693.00	21,950.00	57,470.00	- 190,500,000.00	- 9,784,000.00	- 2,628,000.00
-	693.00	13,450.00	54,920.00	- 165,800,000.00	- 8,737,000.00	- 2,628,000.00
-	693.00	21,950.00	61,830.00	- 203,500,000.00	- 9,784,000.00	- 2,628,000.00
-	693.00	21,950.00	61,830.00	- 203,500,000.00	- 9,784,000.00	- 2,628,000.00
-	14,900.00	17,700.00	58,370.00	- 184,700,000.00	- 111,700,000.00	- 27,580,000.00
-	14,900.00	17,700.00	58,370.00	- 184,700,000.00	- 111,700,000.00	- 27,580,000.00
-	14,900.00	13,450.00	50,560.00	- 152,800,000.00	- 111,200,000.00	- 27,580,000.00
-	14,900.00	13,450.00	54,920.00	- 165,800,000.00	- 111,200,000.00	- 27,580,000.00
-	14,900.00	21,950.00	61,830.00	- 203,500,000.00	- 112,300,000.00	- 27,580,000.00
-	14,900.00	13,450.00	54,920.00	- 165,800,000.00	- 111,200,000.00	- 27,580,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 175 di 215

Reazioni vincolari - EQU											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	14,900.00		21,950.00		61,830.00	-	203,500,000.00	-	112,300,000.00	-	27,580,000.00
	0.00		17,700.00		53,630.00	-	156,300,000.00	-	2,723,000.00		591,100.00
	0.00		13,450.00		50,180.00	-	137,500,000.00	-	2,199,000.00		591,100.00
	0.00		13,450.00		54,530.00	-	150,500,000.00	-	2,199,000.00		591,100.00
	0.00		21,950.00		61,450.00	-	188,200,000.00	-	3,246,000.00		591,100.00
	0.00		13,450.00		54,530.00	-	150,500,000.00	-	2,199,000.00		591,100.00
	0.00		21,950.00		61,450.00	-	188,200,000.00	-	3,246,000.00		591,100.00
-	14,210.00		17,700.00		53,630.00	-	156,300,000.00	-	105,200,000.00	-	24,360,000.00
-	14,210.00		17,700.00		57,990.00	-	169,400,000.00	-	105,200,000.00	-	24,360,000.00
-	14,210.00		17,700.00		57,990.00	-	169,400,000.00	-	105,200,000.00	-	24,360,000.00
-	14,210.00		13,450.00		54,530.00	-	150,500,000.00	-	104,700,000.00	-	24,360,000.00
-	14,210.00		21,950.00		61,450.00	-	188,200,000.00	-	105,700,000.00	-	24,360,000.00
-	14,210.00		13,450.00		54,530.00	-	150,500,000.00	-	104,700,000.00	-	24,360,000.00
-	14,210.00		21,950.00		61,450.00	-	188,200,000.00	-	105,700,000.00	-	24,360,000.00
-	693.00		17,700.00		58,670.00	-	178,400,000.00	-	9,756,000.00	-	2,628,000.00
-	693.00		13,450.00		59,570.00	-	172,600,000.00	-	9,232,000.00	-	2,628,000.00
-	693.00		21,950.00		66,490.00	-	210,300,000.00	-	10,280,000.00	-	2,628,000.00
-	693.00		21,950.00		66,490.00	-	210,300,000.00	-	10,280,000.00	-	2,628,000.00
-	14,900.00		17,700.00		63,030.00	-	191,400,000.00	-	112,200,000.00	-	27,580,000.00
-	14,900.00		17,700.00		63,030.00	-	191,400,000.00	-	112,200,000.00	-	27,580,000.00
-	14,900.00		13,450.00		55,220.00	-	159,500,000.00	-	111,700,000.00	-	27,580,000.00
-	14,900.00		13,450.00		55,220.00	-	159,500,000.00	-	111,700,000.00	-	27,580,000.00
-	14,900.00		21,950.00		62,130.00	-	197,200,000.00	-	112,800,000.00	-	27,580,000.00
-	14,900.00		13,450.00		59,570.00	-	172,600,000.00	-	111,700,000.00	-	27,580,000.00
-	14,900.00		21,950.00		66,490.00	-	210,300,000.00	-	112,800,000.00	-	27,580,000.00
-	14,900.00		13,450.00		59,570.00	-	172,600,000.00	-	111,700,000.00	-	27,580,000.00
-	14,900.00		21,950.00		66,490.00	-	210,300,000.00	-	112,800,000.00	-	27,580,000.00
	0.00		17,700.00		59,560.00	-	165,700,000.00	-	2,228,000.00		591,100.00
	0.00		13,450.00		51,750.00	-	133,800,000.00	-	1,704,000.00		591,100.00
	0.00		21,950.00		58,660.00	-	171,500,000.00	-	2,751,000.00		591,100.00
-	14,210.00		17,700.00		59,560.00	-	165,700,000.00	-	104,700,000.00	-	24,360,000.00
-	14,210.00		17,700.00		59,560.00	-	165,700,000.00	-	104,700,000.00	-	24,360,000.00
-	14,210.00		13,450.00		56,110.00	-	146,800,000.00	-	104,200,000.00	-	24,360,000.00
-	14,210.00		21,950.00		63,020.00	-	184,500,000.00	-	105,200,000.00	-	24,360,000.00
-	14,210.00		13,450.00		56,110.00	-	146,800,000.00	-	104,200,000.00	-	24,360,000.00
-	14,210.00		21,950.00		63,020.00	-	184,500,000.00	-	105,200,000.00	-	24,360,000.00
-	693.00		17,700.00		60,250.00	-	174,700,000.00	-	9,261,000.00	-	2,628,000.00
-	693.00		17,700.00		60,250.00	-	174,700,000.00	-	9,261,000.00	-	2,628,000.00
-	693.00		17,700.00		64,600.00	-	187,700,000.00	-	9,261,000.00	-	2,628,000.00
-	693.00		17,700.00		64,600.00	-	187,700,000.00	-	9,261,000.00	-	2,628,000.00
-	693.00		13,450.00		61,150.00	-	168,900,000.00	-	8,737,000.00	-	2,628,000.00
-	14,900.00		17,700.00		64,600.00	-	187,700,000.00	-	111,700,000.00	-	27,580,000.00
-	14,900.00		17,700.00		64,600.00	-	187,700,000.00	-	111,700,000.00	-	27,580,000.00
-	14,900.00		13,450.00		61,150.00	-	168,900,000.00	-	111,200,000.00	-	27,580,000.00
-	14,900.00		21,950.00		68,060.00	-	206,600,000.00	-	112,300,000.00	-	27,580,000.00
-	14,900.00		13,450.00		61,150.00	-	168,900,000.00	-	111,200,000.00	-	27,580,000.00
-	14,900.00		21,950.00		68,060.00	-	206,600,000.00	-	112,300,000.00	-	27,580,000.00
	0.00		17,700.00		64,220.00	-	172,400,000.00	-	2,723,000.00		591,100.00
	0.00		17,700.00		64,220.00	-	172,400,000.00	-	2,723,000.00		591,100.00
	0.00		13,450.00		60,760.00	-	153,600,000.00	-	2,199,000.00		591,100.00
	0.00		13,450.00		60,760.00	-	153,600,000.00	-	2,199,000.00		591,100.00
	0.00		21,950.00		67,670.00	-	191,300,000.00	-	3,246,000.00		591,100.00
-	14,210.00		17,700.00		64,220.00	-	172,400,000.00	-	105,200,000.00	-	24,360,000.00
-	14,210.00		17,700.00		64,220.00	-	172,400,000.00	-	105,200,000.00	-	24,360,000.00
-	14,210.00		13,450.00		56,410.00	-	140,500,000.00	-	104,700,000.00	-	24,360,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 176 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,210.00		21,950.00		63,320.00	- 178,200,000.00	-	105,700,000.00	-	24,360,000.00
-	14,210.00		21,950.00		63,320.00	- 178,200,000.00	-	105,700,000.00	-	24,360,000.00
-	14,210.00		13,450.00		60,760.00	- 153,600,000.00	-	104,700,000.00	-	24,360,000.00
-	14,210.00		21,950.00		67,670.00	- 191,300,000.00	-	105,700,000.00	-	24,360,000.00
-	14,210.00		13,450.00		60,760.00	- 153,600,000.00	-	104,700,000.00	-	24,360,000.00
-	14,210.00		21,950.00		67,670.00	- 191,300,000.00	-	105,700,000.00	-	24,360,000.00
-	693.00		21,950.00		68,360.00	- 200,300,000.00	-	10,280,000.00	-	2,628,000.00
-	693.00		13,450.00		65,800.00	- 175,600,000.00	-	9,232,000.00	-	2,628,000.00
-	693.00		21,950.00		72,710.00	- 213,300,000.00	-	10,280,000.00	-	2,628,000.00
-	693.00		13,450.00		65,800.00	- 175,600,000.00	-	9,232,000.00	-	2,628,000.00
-	14,900.00		17,700.00		64,900.00	- 181,400,000.00	-	112,200,000.00	-	27,580,000.00
-	14,900.00		17,700.00		64,900.00	- 181,400,000.00	-	112,200,000.00	-	27,580,000.00
-	14,900.00		17,700.00		69,260.00	- 194,500,000.00	-	112,200,000.00	-	27,580,000.00
-	14,900.00		17,700.00		69,260.00	- 194,500,000.00	-	112,200,000.00	-	27,580,000.00
-	14,900.00		13,450.00		65,800.00	- 175,600,000.00	-	111,700,000.00	-	27,580,000.00
-	14,900.00		21,950.00		72,710.00	- 213,300,000.00	-	112,800,000.00	-	27,580,000.00
-	14,900.00		13,450.00		65,800.00	- 175,600,000.00	-	111,700,000.00	-	27,580,000.00
-	14,900.00		21,950.00		72,710.00	- 213,300,000.00	-	112,800,000.00	-	27,580,000.00
0.00	-		7,082.00		43,220.00	- 12,710,000.00	-	1,355,000.00		11.81
0.00			7,082.00		54,740.00	- 75,530,000.00	-	3,100,000.00		28.81
14,210.00			3,537.00		43,220.00	- 75,990,000.00		101,100,000.00		25,310,000.00
-	693.00		3,537.00		48,260.00	- 98,020,000.00	-	8,388,000.00	-	2,864,000.00
13,510.00			10,620.00		54,020.00	- 129,400,000.00		93,220,000.00		22,090,000.00
13,510.00			3,537.00		48,260.00	- 98,020,000.00		94,090,000.00		22,090,000.00
0.00	-		7,082.00		47,870.00	- 19,460,000.00	-	1,850,000.00		14.91
14,210.00			7,082.00		59,390.00	- 82,290,000.00		98,880,000.00		24,950,000.00
14,210.00			17,700.00		59,390.00	- 145,600,000.00		98,880,000.00		25,310,000.00
14,210.00			3,537.00		47,870.00	- 82,740,000.00		100,600,000.00		25,310,000.00
13,510.00	-		7,082.00		52,910.00	- 41,490,000.00		93,590,000.00		21,740,000.00
13,510.00			7,082.00		64,430.00	- 104,300,000.00		91,850,000.00		21,740,000.00
13,510.00	-		7,082.00		52,910.00	- 41,490,000.00		93,590,000.00		21,740,000.00
13,510.00			7,082.00		64,430.00	- 104,300,000.00		91,850,000.00		21,740,000.00
13,510.00			3,537.00		52,910.00	- 104,800,000.00		93,590,000.00		22,090,000.00
0.00			17,700.00		60,970.00	- 141,900,000.00	-	3,100,000.00		354,700.00
14,210.00	-		7,082.00		49,450.00	- 15,760,000.00		101,100,000.00		24,950,000.00
14,210.00			7,082.00		60,970.00	- 78,590,000.00		99,380,000.00		24,950,000.00
14,210.00			3,537.00		49,450.00	- 79,040,000.00		101,100,000.00		25,310,000.00
14,210.00			17,700.00		60,970.00	- 141,900,000.00		99,380,000.00		25,310,000.00
14,210.00			17,700.00		60,970.00	- 141,900,000.00		99,380,000.00		25,310,000.00
-	693.00		7,082.00		66,010.00	- 100,600,000.00	-	10,130,000.00	-	3,219,000.00
-	693.00		7,082.00		66,010.00	- 100,600,000.00	-	10,130,000.00	-	3,219,000.00
-	693.00		3,537.00		54,490.00	- 101,100,000.00	-	8,388,000.00	-	2,864,000.00
-	693.00		17,700.00		66,010.00	- 163,900,000.00	-	10,130,000.00	-	2,864,000.00
13,510.00			7,082.00		66,010.00	- 100,600,000.00		92,340,000.00		21,740,000.00
14,210.00			17,700.00		65,620.00	- 148,600,000.00		98,880,000.00		25,310,000.00
-	693.00		7,082.00		70,660.00	- 107,400,000.00	-	10,630,000.00	-	3,219,000.00
13,510.00			10,620.00		64,900.00	- 139,200,000.00		92,720,000.00		22,090,000.00
13,510.00			10,620.00		64,900.00	- 139,200,000.00		92,720,000.00		22,090,000.00
13,510.00			3,537.00		59,140.00	- 107,800,000.00		93,590,000.00		22,090,000.00
13,510.00			17,700.00		70,660.00	- 170,600,000.00		91,850,000.00		22,090,000.00
13,510.00			3,537.00		59,140.00	- 107,800,000.00		93,590,000.00		22,090,000.00
13,510.00			17,700.00		70,660.00	- 170,600,000.00		91,850,000.00		22,090,000.00
0.00	-		7,082.00		43,220.00	- 12,710,000.00	-	1,355,000.00		11.66
0.00			7,082.00		54,740.00	- 75,530,000.00	-	3,100,000.00		28.67
0.00			3,537.00		43,220.00	- 75,990,000.00	-	1,355,000.00		354,700.00



<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 177 di 215

Reazioni vincolari - EQU						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
14,210.00	3,537.00	43,220.00	- 75,990,000.00	101,100,000.00	25,310,000.00	
14,210.00	17,700.00	54,740.00	- 138,800,000.00	99,380,000.00	25,310,000.00	
14,210.00	3,537.00	43,220.00	- 75,990,000.00	101,100,000.00	25,310,000.00	
14,210.00	17,700.00	54,740.00	- 138,800,000.00	99,380,000.00	25,310,000.00	
- 693.00	3,537.00	48,260.00	- 98,020,000.00	- 8,388,000.00	- 2,864,000.00	
13,510.00	- 7,082.00	48,260.00	- 34,730,000.00	94,090,000.00	21,740,000.00	
13,510.00	10,620.00	54,020.00	- 129,400,000.00	93,220,000.00	22,090,000.00	
13,510.00	3,537.00	48,260.00	- 98,020,000.00	94,090,000.00	22,090,000.00	
13,510.00	17,700.00	59,780.00	- 160,800,000.00	92,340,000.00	22,090,000.00	
0.00	17,700.00	59,390.00	- 145,600,000.00	- 3,595,000.00	354,700.00	
0.00	17,700.00	59,390.00	- 145,600,000.00	- 3,595,000.00	354,700.00	
14,210.00	- 7,082.00	47,870.00	- 19,460,000.00	100,600,000.00	24,950,000.00	
14,210.00	7,082.00	59,390.00	- 82,290,000.00	98,880,000.00	24,950,000.00	
14,210.00	7,082.00	59,390.00	- 82,290,000.00	98,880,000.00	24,950,000.00	
14,210.00	3,537.00	47,870.00	- 82,740,000.00	100,600,000.00	25,310,000.00	
14,210.00	17,700.00	59,390.00	- 145,600,000.00	98,880,000.00	25,310,000.00	
- 693.00	17,700.00	64,430.00	- 167,600,000.00	- 10,630,000.00	- 2,864,000.00	
13,510.00	10,620.00	58,670.00	- 136,200,000.00	92,720,000.00	22,090,000.00	
13,510.00	10,620.00	58,670.00	- 136,200,000.00	92,720,000.00	22,090,000.00	
13,510.00	3,537.00	52,910.00	- 104,800,000.00	93,590,000.00	22,090,000.00	
13,510.00	17,700.00	64,430.00	- 167,600,000.00	91,850,000.00	22,090,000.00	
0.00	7,082.00	60,970.00	- 78,590,000.00	- 3,100,000.00	30.08	
0.00	17,700.00	60,970.00	- 141,900,000.00	- 3,100,000.00	354,700.00	
14,210.00	3,537.00	49,450.00	- 79,040,000.00	101,100,000.00	25,310,000.00	
14,210.00	17,700.00	60,970.00	- 141,900,000.00	99,380,000.00	25,310,000.00	
13,510.00	- 7,082.00	54,490.00	- 37,780,000.00	94,090,000.00	21,740,000.00	
13,510.00	10,620.00	60,250.00	- 132,500,000.00	93,220,000.00	22,090,000.00	
13,510.00	10,620.00	60,250.00	- 132,500,000.00	93,220,000.00	22,090,000.00	
13,510.00	3,537.00	54,490.00	- 101,100,000.00	94,090,000.00	22,090,000.00	
13,510.00	17,700.00	66,010.00	- 163,900,000.00	92,340,000.00	22,090,000.00	
0.00	7,082.00	65,620.00	- 85,340,000.00	- 3,595,000.00	33.18	
0.00	17,700.00	65,620.00	- 148,600,000.00	- 3,595,000.00	354,700.00	
0.00	3,537.00	54,100.00	- 85,800,000.00	- 1,850,000.00	354,700.00	
0.00	17,700.00	65,620.00	- 148,600,000.00	- 3,595,000.00	354,700.00	
14,210.00	3,537.00	54,100.00	- 85,800,000.00	100,600,000.00	25,310,000.00	
14,210.00	17,700.00	65,620.00	- 148,600,000.00	98,880,000.00	25,310,000.00	
14,210.00	3,537.00	54,100.00	- 85,800,000.00	100,600,000.00	25,310,000.00	
14,210.00	17,700.00	65,620.00	- 148,600,000.00	98,880,000.00	25,310,000.00	
13,510.00	- 7,082.00	59,140.00	- 44,540,000.00	93,590,000.00	21,740,000.00	
13,510.00	- 7,082.00	59,140.00	- 44,540,000.00	93,590,000.00	21,740,000.00	
13,510.00	10,620.00	64,900.00	- 139,200,000.00	92,720,000.00	22,090,000.00	
13,510.00	3,537.00	59,140.00	- 107,800,000.00	93,590,000.00	22,090,000.00	
13,510.00	17,700.00	70,660.00	- 170,600,000.00	91,850,000.00	22,090,000.00	
0.00	17,700.00	59,090.00	- 151,900,000.00	- 3,100,000.00	354,700.00	
14,210.00	- 7,082.00	43,220.00	- 12,710,000.00	101,100,000.00	24,950,000.00	
14,210.00	7,082.00	54,740.00	- 75,530,000.00	99,380,000.00	24,950,000.00	
14,210.00	- 7,082.00	43,220.00	- 12,710,000.00	101,100,000.00	24,950,000.00	
14,210.00	7,082.00	54,740.00	- 75,530,000.00	99,380,000.00	24,950,000.00	
14,210.00	7,082.00	59,090.00	- 88,580,000.00	99,380,000.00	24,950,000.00	
14,210.00	- 7,082.00	47,570.00	- 25,760,000.00	101,100,000.00	24,950,000.00	
14,210.00	17,700.00	54,740.00	- 138,800,000.00	99,380,000.00	25,310,000.00	
14,210.00	3,537.00	47,570.00	- 89,040,000.00	101,100,000.00	25,310,000.00	
14,210.00	17,700.00	59,090.00	- 151,900,000.00	99,380,000.00	25,310,000.00	
14,210.00	3,537.00	47,570.00	- 89,040,000.00	101,100,000.00	25,310,000.00	
14,210.00	17,700.00	59,090.00	- 151,900,000.00	99,380,000.00	25,310,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17    Lotto 10    Codifica Documento EI2CLOC000006    Rev. A    Foglio 178 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	693.00		3,537.00		48,260.00	- 98,020,000.00	-	8,388,000.00	-	2,864,000.00
-	693.00		3,537.00		52,610.00	- 111,100,000.00	-	8,388,000.00	-	2,864,000.00
	13,510.00		7,082.00		59,780.00	- 97,560,000.00		92,340,000.00		21,740,000.00
	13,510.00		10,620.00		54,020.00	- 129,400,000.00		93,220,000.00		22,090,000.00
	13,510.00		10,620.00		58,370.00	- 142,500,000.00		93,220,000.00		22,090,000.00
	13,510.00		10,620.00		58,370.00	- 142,500,000.00		93,220,000.00		22,090,000.00
	13,510.00		3,537.00		48,260.00	- 98,020,000.00		94,090,000.00		22,090,000.00
	13,510.00		17,700.00		59,780.00	- 160,800,000.00		92,340,000.00		22,090,000.00
	13,510.00		17,700.00		59,780.00	- 160,800,000.00		92,340,000.00		22,090,000.00
	13,510.00		3,537.00		52,610.00	- 111,100,000.00		94,090,000.00		22,090,000.00
	13,510.00		17,700.00		64,130.00	- 173,900,000.00		92,340,000.00		22,090,000.00
	13,510.00		3,537.00		52,610.00	- 111,100,000.00		94,090,000.00		22,090,000.00
	13,510.00		17,700.00		64,130.00	- 173,900,000.00		92,340,000.00		22,090,000.00
	0.00	-	7,082.00		52,230.00	- 32,510,000.00	-	1,850,000.00		21.08
	0.00		7,082.00		63,750.00	- 95,340,000.00	-	3,595,000.00		38.09
	0.00		3,537.00		52,230.00	- 95,790,000.00	-	1,850,000.00		354,700.00
	0.00		17,700.00		63,750.00	- 158,600,000.00	-	3,595,000.00		354,700.00
	0.00		17,700.00		63,750.00	- 158,600,000.00	-	3,595,000.00		354,700.00
	14,210.00	-	7,082.00		52,230.00	- 32,510,000.00		100,600,000.00		24,950,000.00
	14,210.00		7,082.00		63,750.00	- 95,340,000.00		98,880,000.00		24,950,000.00
	14,210.00		3,537.00		47,870.00	- 82,740,000.00		100,600,000.00		25,310,000.00
	14,210.00		17,700.00		59,390.00	- 145,600,000.00		98,880,000.00		25,310,000.00
	14,210.00		3,537.00		52,230.00	- 95,790,000.00		100,600,000.00		25,310,000.00
	14,210.00		17,700.00		63,750.00	- 158,600,000.00		98,880,000.00		25,310,000.00
	14,210.00		3,537.00		52,230.00	- 95,790,000.00		100,600,000.00		25,310,000.00
	14,210.00		17,700.00		63,750.00	- 158,600,000.00		98,880,000.00		25,310,000.00
-	693.00		3,537.00		57,270.00	- 117,800,000.00	-	8,883,000.00	-	2,864,000.00
	13,510.00		10,620.00		58,670.00	- 136,200,000.00		92,720,000.00		22,090,000.00
	13,510.00		10,620.00		63,030.00	- 149,200,000.00		92,720,000.00		22,090,000.00
	13,510.00		10,620.00		63,030.00	- 149,200,000.00		92,720,000.00		22,090,000.00
	13,510.00		3,537.00		52,910.00	- 104,800,000.00		93,590,000.00		22,090,000.00
	13,510.00		17,700.00		64,430.00	- 167,600,000.00		91,850,000.00		22,090,000.00
	13,510.00		17,700.00		64,430.00	- 167,600,000.00		91,850,000.00		22,090,000.00
	13,510.00		3,537.00		57,270.00	- 117,800,000.00		93,590,000.00		22,090,000.00
	13,510.00		17,700.00		68,790.00	- 180,600,000.00		91,850,000.00		22,090,000.00
	13,510.00		3,537.00		57,270.00	- 117,800,000.00		93,590,000.00		22,090,000.00
	13,510.00		17,700.00		68,790.00	- 180,600,000.00		91,850,000.00		22,090,000.00
	0.00	-	7,082.00		49,450.00	- 15,760,000.00	-	1,355,000.00		13.36
	0.00		7,082.00		60,970.00	- 78,590,000.00	-	3,100,000.00		30.37
	0.00		3,537.00		53,800.00	- 92,090,000.00	-	1,355,000.00		354,700.00
	0.00		17,700.00		65,320.00	- 154,900,000.00	-	3,100,000.00		354,700.00
	0.00		3,537.00		53,800.00	- 92,090,000.00	-	1,355,000.00		354,700.00
	0.00		17,700.00		65,320.00	- 154,900,000.00	-	3,100,000.00		354,700.00
	14,210.00		7,082.00		60,970.00	- 78,590,000.00		99,380,000.00		24,950,000.00
	14,210.00		7,082.00		65,320.00	- 91,630,000.00		99,380,000.00		24,950,000.00
	14,210.00	-	7,082.00		53,800.00	- 28,810,000.00		101,100,000.00		24,950,000.00
	14,210.00		3,537.00		49,450.00	- 79,040,000.00		101,100,000.00		25,310,000.00
	14,210.00		3,537.00		53,800.00	- 92,090,000.00		101,100,000.00		25,310,000.00
	14,210.00		17,700.00		65,320.00	- 154,900,000.00		99,380,000.00		25,310,000.00
	14,210.00		3,537.00		53,800.00	- 92,090,000.00		101,100,000.00		25,310,000.00
	14,210.00		17,700.00		65,320.00	- 154,900,000.00		99,380,000.00		25,310,000.00
-	693.00	-	7,082.00		58,840.00	- 50,830,000.00	-	8,388,000.00	-	3,219,000.00
-	693.00		7,082.00		70,360.00	- 113,700,000.00	-	10,130,000.00	-	3,219,000.00
-	693.00		3,537.00		54,490.00	- 101,100,000.00	-	8,388,000.00	-	2,864,000.00
-	693.00		17,700.00		66,010.00	- 163,900,000.00	-	10,130,000.00	-	2,864,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17    Lotto 10    Codifica Documento EI2CLOC000006    Rev. A    Foglio 179 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	693.00		3,537.00		58,840.00	- 114,100,000.00	-	8,388,000.00	-	2,864,000.00
	13,510.00		7,082.00		70,360.00	- 113,700,000.00		92,340,000.00		21,740,000.00
	13,510.00	-	7,082.00		58,840.00	- 50,830,000.00		94,090,000.00		21,740,000.00
	13,510.00		10,620.00		60,250.00	- 132,500,000.00		93,220,000.00		22,090,000.00
	13,510.00		10,620.00		64,600.00	- 145,500,000.00		93,220,000.00		22,090,000.00
	13,510.00		10,620.00		64,600.00	- 145,500,000.00		93,220,000.00		22,090,000.00
	13,510.00		3,537.00		54,490.00	- 101,100,000.00		94,090,000.00		22,090,000.00
	13,510.00		17,700.00		66,010.00	- 163,900,000.00		92,340,000.00		22,090,000.00
	13,510.00		3,537.00		54,490.00	- 101,100,000.00		94,090,000.00		22,090,000.00
	13,510.00		17,700.00		66,010.00	- 163,900,000.00		92,340,000.00		22,090,000.00
	13,510.00		3,537.00		58,840.00	- 114,100,000.00		94,090,000.00		22,090,000.00
	13,510.00		17,700.00		70,360.00	- 176,900,000.00		92,340,000.00		22,090,000.00
	13,510.00		3,537.00		58,840.00	- 114,100,000.00		94,090,000.00		22,090,000.00
	13,510.00		17,700.00		70,360.00	- 176,900,000.00		92,340,000.00		22,090,000.00
	0.00		7,082.00		65,620.00	- 85,340,000.00	-	3,595,000.00		33.33
	0.00	-	7,082.00		54,100.00	- 22,510,000.00	-	1,850,000.00		16.47
	0.00		7,082.00		65,620.00	- 85,340,000.00	-	3,595,000.00		33.48
	0.00		3,537.00		58,460.00	- 98,840,000.00	-	1,850,000.00		354,700.00
	0.00		17,700.00		69,980.00	- 161,700,000.00	-	3,595,000.00		354,700.00
	14,210.00	-	7,082.00		54,100.00	- 22,510,000.00		100,600,000.00		24,950,000.00
	14,210.00	-	7,082.00		58,460.00	- 35,560,000.00		100,600,000.00		24,950,000.00
	14,210.00	-	7,082.00		58,460.00	- 35,560,000.00		100,600,000.00		24,950,000.00
	14,210.00		3,537.00		54,100.00	- 85,800,000.00		100,600,000.00		25,310,000.00
	14,210.00		3,537.00		58,460.00	- 98,840,000.00		100,600,000.00		25,310,000.00
	14,210.00		17,700.00		69,980.00	- 161,700,000.00		98,880,000.00		25,310,000.00
	14,210.00		3,537.00		58,460.00	- 98,840,000.00		100,600,000.00		25,310,000.00
	14,210.00		17,700.00		69,980.00	- 161,700,000.00		98,880,000.00		25,310,000.00
-	693.00	-	7,082.00		59,140.00	- 44,540,000.00	-	8,883,000.00	-	3,219,000.00
-	693.00	-	7,082.00		63,500.00	- 57,580,000.00	-	8,883,000.00	-	3,219,000.00
-	693.00		3,537.00		59,140.00	- 107,800,000.00	-	8,883,000.00	-	2,864,000.00
-	693.00		17,700.00		70,660.00	- 170,600,000.00	-	10,630,000.00	-	2,864,000.00
-	693.00		3,537.00		63,500.00	- 120,900,000.00	-	8,883,000.00	-	2,864,000.00
-	693.00		17,700.00		75,020.00	- 183,700,000.00	-	10,630,000.00	-	2,864,000.00
-	693.00		3,537.00		63,500.00	- 120,900,000.00	-	8,883,000.00	-	2,864,000.00
	13,510.00	-	7,082.00		59,140.00	- 44,540,000.00		93,590,000.00		21,740,000.00
	13,510.00		10,620.00		69,260.00	- 152,300,000.00		92,720,000.00		22,090,000.00
	13,510.00		10,620.00		69,260.00	- 152,300,000.00		92,720,000.00		22,090,000.00
	13,510.00		3,537.00		63,500.00	- 120,900,000.00		93,590,000.00		22,090,000.00
	13,510.00		17,700.00		75,020.00	- 183,700,000.00		91,850,000.00		22,090,000.00
	13,510.00		3,537.00		63,500.00	- 120,900,000.00		93,590,000.00		22,090,000.00
	13,510.00		17,700.00		75,020.00	- 183,700,000.00		91,850,000.00		22,090,000.00
-	0.00	-	18,620.00		43,220.00	57,790,000.00	-	1,355,000.00	-	354,600.00
	14,210.00	-	18,620.00		43,220.00	57,790,000.00		101,100,000.00		24,600,000.00
	14,210.00	-	4,460.00		54,740.00	- 5,038,000.00		99,380,000.00		24,600,000.00
-	693.00	-	7,082.00		48,260.00	- 34,730,000.00	-	8,388,000.00	-	3,219,000.00
-	693.00		7,082.00		59,780.00	- 97,560,000.00	-	10,130,000.00	-	3,219,000.00
-	693.00	-	18,620.00		48,260.00	35,760,000.00	-	8,388,000.00	-	3,574,000.00
-	693.00	-	4,460.00		59,780.00	- 27,060,000.00	-	10,130,000.00	-	3,574,000.00
	13,510.00	-	18,620.00		48,260.00	35,760,000.00		94,090,000.00		21,380,000.00
	13,510.00	-	4,459.00		59,780.00	- 27,060,000.00		92,340,000.00		21,380,000.00
	14,210.00	-	18,620.00		47,870.00	51,030,000.00		100,600,000.00		24,600,000.00
	14,210.00	-	18,620.00		47,870.00	51,030,000.00		100,600,000.00		24,600,000.00
	14,210.00	-	4,460.00		59,390.00	- 11,790,000.00		98,880,000.00		24,600,000.00
	13,510.00	-	11,540.00		58,670.00	- 2,404,000.00		92,720,000.00		21,380,000.00
	14,210.00	-	18,620.00		49,450.00	54,740,000.00		101,100,000.00		24,600,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 180 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
14,210.00	-	4,460.00	60,970.00	-	8,089,000.00	99,380,000.00	24,600,000.00			
14,210.00	-	18,620.00	49,450.00	-	54,740,000.00	101,100,000.00	24,600,000.00			
14,210.00	-	4,460.00	60,970.00	-	8,089,000.00	99,380,000.00	24,600,000.00			
13,510.00	-	7,082.00	54,490.00	-	37,780,000.00	94,090,000.00	21,740,000.00			
13,510.00	-	18,620.00	54,490.00	-	32,710,000.00	94,090,000.00	21,380,000.00			
13,510.00	-	18,620.00	54,490.00	-	32,710,000.00	94,090,000.00	21,380,000.00			
13,510.00	-	4,459.00	66,010.00	-	30,110,000.00	92,340,000.00	21,380,000.00			
0.00	-	4,460.00	65,620.00	-	14,840,000.00	-	354,600.00			
14,210.00	-	18,620.00	54,100.00	-	47,980,000.00	100,600,000.00	24,600,000.00			
14,210.00	-	18,620.00	54,100.00	-	47,980,000.00	100,600,000.00	24,600,000.00			
14,210.00	-	4,460.00	65,620.00	-	14,840,000.00	98,880,000.00	24,600,000.00			
-	693.00	-	18,620.00	59,140.00	25,960,000.00	-	8,883,000.00	-	3,574,000.00	
-	693.00	-	18,620.00	59,140.00	25,960,000.00	-	8,883,000.00	-	3,574,000.00	
13,510.00	-	7,082.00	70,660.00	-	107,400,000.00	91,850,000.00	21,740,000.00			
13,510.00	-	11,540.00	64,900.00	-	5,455,000.00	92,720,000.00	21,380,000.00			
13,510.00	-	18,620.00	59,140.00	-	25,960,000.00	93,590,000.00	21,380,000.00			
-	0.00	-	18,620.00	43,220.00	57,790,000.00	-	1,355,000.00	-	354,600.00	
0.00	-	4,460.00	54,740.00	-	5,038,000.00	-	3,100,000.00	-	354,600.00	
14,210.00	-	7,082.00	43,220.00	-	12,710,000.00	101,100,000.00	24,950,000.00			
14,210.00	-	7,082.00	54,740.00	-	75,530,000.00	99,380,000.00	24,950,000.00			
14,210.00	-	18,620.00	43,220.00	-	57,790,000.00	101,100,000.00	24,600,000.00			
14,210.00	-	4,460.00	54,740.00	-	5,038,000.00	99,380,000.00	24,600,000.00			
-	693.00	-	18,620.00	48,260.00	35,760,000.00	-	8,388,000.00	-	3,574,000.00	
-	693.00	-	4,460.00	59,780.00	27,060,000.00	-	10,130,000.00	-	3,574,000.00	
13,510.00	-	7,082.00	48,260.00	-	34,730,000.00	94,090,000.00	21,740,000.00			
13,510.00	-	7,082.00	59,780.00	-	97,560,000.00	92,340,000.00	21,740,000.00			
13,510.00	-	11,540.00	54,020.00	-	4,350,000.00	93,220,000.00	21,380,000.00			
13,510.00	-	18,620.00	48,260.00	-	35,760,000.00	94,090,000.00	21,380,000.00			
13,510.00	-	18,620.00	48,260.00	-	35,760,000.00	94,090,000.00	21,380,000.00			
13,510.00	-	4,459.00	59,780.00	-	27,060,000.00	92,340,000.00	21,380,000.00			
0.00	-	7,082.00	47,870.00	-	19,460,000.00	-	1,850,000.00	-	14.76	
0.00	-	7,082.00	59,390.00	-	82,290,000.00	-	3,595,000.00	-	31.77	
0.00	-	18,620.00	47,870.00	-	51,030,000.00	-	1,850,000.00	-	354,600.00	
0.00	-	4,460.00	59,390.00	-	11,790,000.00	-	3,595,000.00	-	354,600.00	
14,210.00	-	7,082.00	47,870.00	-	19,460,000.00	100,600,000.00	24,950,000.00			
14,210.00	-	4,460.00	59,390.00	-	11,790,000.00	98,880,000.00	24,600,000.00			
14,210.00	-	18,620.00	47,870.00	-	51,030,000.00	100,600,000.00	24,600,000.00			
14,210.00	-	4,460.00	59,390.00	-	11,790,000.00	98,880,000.00	24,600,000.00			
-	693.00	-	7,082.00	52,910.00	-	41,490,000.00	-	8,883,000.00	-	3,219,000.00
-	693.00	-	18,620.00	52,910.00	-	29,010,000.00	-	8,883,000.00	-	3,574,000.00
-	693.00	-	4,460.00	64,430.00	-	33,820,000.00	-	10,630,000.00	-	3,574,000.00
13,510.00	-	7,082.00	52,910.00	-	41,490,000.00	93,590,000.00	21,740,000.00			
13,510.00	-	7,082.00	64,430.00	-	104,300,000.00	91,850,000.00	21,740,000.00			
13,510.00	-	11,540.00	58,670.00	-	2,404,000.00	92,720,000.00	21,380,000.00			
13,510.00	-	18,620.00	52,910.00	-	29,010,000.00	93,590,000.00	21,380,000.00			
13,510.00	-	18,620.00	52,910.00	-	29,010,000.00	93,590,000.00	21,380,000.00			
13,510.00	-	4,459.00	64,430.00	-	33,820,000.00	91,850,000.00	21,380,000.00			
0.00	-	4,460.00	60,970.00	-	8,088,000.00	-	3,100,000.00	-	354,600.00	
14,210.00	-	7,082.00	49,450.00	-	15,760,000.00	101,100,000.00	24,950,000.00			
14,210.00	-	7,082.00	60,970.00	-	78,590,000.00	99,380,000.00	24,950,000.00			
14,210.00	-	18,620.00	49,450.00	-	54,740,000.00	101,100,000.00	24,600,000.00			
14,210.00	-	4,460.00	60,970.00	-	8,089,000.00	99,380,000.00	24,600,000.00			
-	693.00	-	7,082.00	66,010.00	-	100,600,000.00	-	10,130,000.00	-	3,219,000.00
-	693.00	-	18,620.00	54,490.00	-	32,710,000.00	-	8,388,000.00	-	3,574,000.00
-	693.00	-	4,460.00	66,010.00	-	30,110,000.00	-	10,130,000.00	-	3,574,000.00



## Reazioni vincolari - EQU

Rx	N	Ry	N	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	693.00	-	18,620.00		54,490.00		32,710,000.00	-	8,388,000.00	-	3,574,000.00
-	693.00	-	4,460.00		66,010.00	-	30,110,000.00	-	10,130,000.00	-	3,574,000.00
	13,510.00		7,082.00		66,010.00	-	100,600,000.00		92,340,000.00		21,740,000.00
	13,510.00	-	7,082.00		54,490.00	-	37,780,000.00		94,090,000.00		21,740,000.00
	13,510.00		7,082.00		66,010.00	-	100,600,000.00		92,340,000.00		21,740,000.00
	13,510.00	-	11,540.00		60,250.00		1,300,000.00		93,220,000.00		21,380,000.00
	13,510.00	-	11,540.00		60,250.00		1,300,000.00		93,220,000.00		21,380,000.00
	13,510.00	-	4,459.00		66,010.00	-	30,110,000.00		92,340,000.00		21,380,000.00
	13,510.00	-	18,620.00		54,490.00		32,710,000.00		94,090,000.00		21,380,000.00
	13,510.00	-	4,459.00		66,010.00	-	30,110,000.00		92,340,000.00		21,380,000.00
	0.00	-	7,082.00		54,100.00	-	22,510,000.00	-	1,850,000.00		16.32
	14,210.00	-	7,082.00		54,100.00	-	22,510,000.00		100,600,000.00		24,950,000.00
	14,210.00		7,082.00		65,620.00	-	85,340,000.00		98,880,000.00		24,950,000.00
	14,210.00	-	18,620.00		54,100.00		47,980,000.00		100,600,000.00		24,600,000.00
	14,210.00	-	4,460.00		65,620.00	-	14,840,000.00		98,880,000.00		24,600,000.00
-	693.00	-	18,620.00		59,140.00		25,960,000.00	-	8,883,000.00	-	3,574,000.00
-	693.00	-	4,460.00		70,660.00	-	36,870,000.00	-	10,630,000.00	-	3,574,000.00
	13,510.00		7,082.00		70,660.00	-	107,400,000.00		91,850,000.00		21,740,000.00
	13,510.00		7,082.00		70,660.00	-	107,400,000.00		91,850,000.00		21,740,000.00
	13,510.00	-	11,540.00		64,900.00	-	5,455,000.00		92,720,000.00		21,380,000.00
	13,510.00	-	11,540.00		64,900.00	-	5,455,000.00		92,720,000.00		21,380,000.00
	13,510.00	-	18,620.00		59,140.00		25,960,000.00		93,590,000.00		21,380,000.00
	13,510.00	-	4,459.00		70,660.00	-	36,870,000.00		91,850,000.00		21,380,000.00
	13,510.00	-	18,620.00		59,140.00		25,960,000.00		93,590,000.00		21,380,000.00
	13,510.00	-	4,459.00		70,660.00	-	36,870,000.00		91,850,000.00		21,380,000.00
	0.00	-	7,082.00		47,570.00	-	25,760,000.00	-	1,355,000.00		17.83
	0.00		7,082.00		59,090.00	-	88,580,000.00	-	3,100,000.00		34.84
	0.00	-	4,460.00		59,090.00	-	18,080,000.00	-	3,100,000.00	-	354,600.00
	14,210.00	-	7,082.00		47,570.00	-	25,760,000.00		101,100,000.00		24,950,000.00
	14,210.00		7,082.00		59,090.00	-	88,580,000.00		99,380,000.00		24,950,000.00
	14,210.00	-	18,620.00		43,220.00		57,790,000.00		101,100,000.00		24,600,000.00
	14,210.00	-	4,460.00		54,740.00	-	5,038,000.00		99,380,000.00		24,600,000.00
	14,210.00	-	18,620.00		47,570.00		44,740,000.00		101,100,000.00		24,600,000.00
	14,210.00	-	4,460.00		59,090.00	-	18,080,000.00		99,380,000.00		24,600,000.00
	14,210.00	-	18,620.00		47,570.00		44,740,000.00		101,100,000.00		24,600,000.00
	14,210.00	-	4,460.00		59,090.00	-	18,080,000.00		99,380,000.00		24,600,000.00
-	693.00	-	4,460.00		64,130.00	-	40,110,000.00	-	10,130,000.00	-	3,574,000.00
	13,510.00	-	7,082.00		48,260.00	-	34,730,000.00		94,090,000.00		21,740,000.00
	13,510.00		7,082.00		59,780.00	-	97,560,000.00		92,340,000.00		21,740,000.00
	13,510.00	-	7,082.00		52,610.00	-	47,780,000.00		94,090,000.00		21,740,000.00
	13,510.00		7,082.00		64,130.00	-	110,600,000.00		92,340,000.00		21,740,000.00
	13,510.00	-	7,082.00		52,610.00	-	47,780,000.00		94,090,000.00		21,740,000.00
	13,510.00		7,082.00		64,130.00	-	110,600,000.00		92,340,000.00		21,740,000.00
	13,510.00	-	11,540.00		54,020.00		4,350,000.00		93,220,000.00		21,380,000.00
	13,510.00	-	11,540.00		54,020.00		4,350,000.00		93,220,000.00		21,380,000.00
	13,510.00	-	11,540.00		58,370.00	-	8,696,000.00		93,220,000.00		21,380,000.00
	13,510.00	-	11,540.00		58,370.00	-	8,696,000.00		93,220,000.00		21,380,000.00
	13,510.00	-	4,459.00		59,780.00	-	27,060,000.00		92,340,000.00		21,380,000.00
	13,510.00	-	18,620.00		52,610.00		22,720,000.00		94,090,000.00		21,380,000.00
	13,510.00	-	4,459.00		64,130.00	-	40,110,000.00		92,340,000.00		21,380,000.00
	13,510.00	-	18,620.00		52,610.00		22,720,000.00		94,090,000.00		21,380,000.00
	13,510.00	-	4,459.00		64,130.00	-	40,110,000.00		92,340,000.00		21,380,000.00
	0.00	-	7,082.00		52,230.00	-	32,510,000.00	-	1,850,000.00		20.93
	0.00		7,082.00		63,750.00	-	95,340,000.00	-	3,595,000.00		37.94
	14,210.00	-	7,082.00		47,870.00	-	19,460,000.00		100,600,000.00		24,950,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 182 di 215

Reazioni vincolari - EQU						
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>	
14,210.00	7,082.00	63,750.00	- 95,340,000.00	98,880,000.00	24,950,000.00	
14,210.00	- 7,082.00	52,230.00	- 32,510,000.00	100,600,000.00	24,950,000.00	
14,210.00	- 18,620.00	52,230.00	37,990,000.00	100,600,000.00	24,600,000.00	
14,210.00	- 4,459.00	63,750.00	- 24,840,000.00	98,880,000.00	24,600,000.00	
14,210.00	- 18,620.00	52,230.00	37,990,000.00	100,600,000.00	24,600,000.00	
14,210.00	- 4,459.00	63,750.00	- 24,840,000.00	98,880,000.00	24,600,000.00	
- 693.00	- 18,620.00	57,270.00	15,960,000.00	- 8,883,000.00	- 3,574,000.00	
- 693.00	- 18,620.00	57,270.00	15,960,000.00	- 8,883,000.00	- 3,574,000.00	
13,510.00	- 7,082.00	57,270.00	- 54,530,000.00	93,590,000.00	21,740,000.00	
13,510.00	- 7,082.00	68,790.00	- 117,400,000.00	91,850,000.00	21,740,000.00	
13,510.00	- 7,082.00	57,270.00	- 54,530,000.00	93,590,000.00	21,740,000.00	
13,510.00	- 7,082.00	68,790.00	- 117,400,000.00	91,850,000.00	21,740,000.00	
13,510.00	- 11,540.00	58,670.00	- 2,404,000.00	92,720,000.00	21,380,000.00	
13,510.00	- 11,540.00	63,030.00	- 15,450,000.00	92,720,000.00	21,380,000.00	
13,510.00	- 11,540.00	63,030.00	- 15,450,000.00	92,720,000.00	21,380,000.00	
13,510.00	- 4,459.00	64,430.00	- 33,820,000.00	91,850,000.00	21,380,000.00	
13,510.00	- 18,620.00	52,910.00	29,010,000.00	93,590,000.00	21,380,000.00	
13,510.00	- 4,459.00	64,430.00	- 33,820,000.00	91,850,000.00	21,380,000.00	
13,510.00	- 18,620.00	57,270.00	15,960,000.00	93,590,000.00	21,380,000.00	
13,510.00	- 4,459.00	68,790.00	- 46,860,000.00	91,850,000.00	21,380,000.00	
13,510.00	- 18,620.00	57,270.00	15,960,000.00	93,590,000.00	21,380,000.00	
13,510.00	- 4,459.00	68,790.00	- 46,860,000.00	91,850,000.00	21,380,000.00	
- 0.00	- 18,620.00	49,450.00	54,740,000.00	- 1,355,000.00	- 354,600.00	
0.00	- 18,620.00	53,800.00	41,690,000.00	- 1,355,000.00	- 354,600.00	
0.00	- 4,460.00	65,320.00	- 21,130,000.00	- 3,100,000.00	- 354,600.00	
14,210.00	- 7,082.00	49,450.00	- 15,760,000.00	101,100,000.00	24,950,000.00	
14,210.00	- 7,082.00	53,800.00	- 28,810,000.00	101,100,000.00	24,950,000.00	
14,210.00	- 7,082.00	65,320.00	- 91,630,000.00	99,380,000.00	24,950,000.00	
14,210.00	- 18,620.00	53,800.00	41,690,000.00	101,100,000.00	24,600,000.00	
14,210.00	- 4,460.00	65,320.00	- 21,130,000.00	99,380,000.00	24,600,000.00	
14,210.00	- 18,620.00	53,800.00	41,690,000.00	101,100,000.00	24,600,000.00	
14,210.00	- 4,460.00	65,320.00	- 21,130,000.00	99,380,000.00	24,600,000.00	
- 693.00	- 7,082.00	58,840.00	- 50,830,000.00	- 8,388,000.00	- 3,219,000.00	
- 693.00	- 18,620.00	58,840.00	19,670,000.00	- 8,388,000.00	- 3,574,000.00	
- 693.00	- 4,459.00	70,360.00	- 43,160,000.00	- 10,130,000.00	- 3,574,000.00	
13,510.00	- 7,082.00	58,840.00	- 50,830,000.00	94,090,000.00	21,740,000.00	
13,510.00	- 7,082.00	70,360.00	- 113,700,000.00	92,340,000.00	21,740,000.00	
13,510.00	- 11,540.00	60,250.00	1,300,000.00	93,220,000.00	21,380,000.00	
13,510.00	- 11,540.00	64,600.00	- 11,750,000.00	93,220,000.00	21,380,000.00	
13,510.00	- 11,540.00	64,600.00	- 11,750,000.00	93,220,000.00	21,380,000.00	
13,510.00	- 18,620.00	58,840.00	19,670,000.00	94,090,000.00	21,380,000.00	
13,510.00	- 4,459.00	70,360.00	- 43,160,000.00	92,340,000.00	21,380,000.00	
13,510.00	- 18,620.00	58,840.00	19,670,000.00	94,090,000.00	21,380,000.00	
13,510.00	- 4,459.00	70,360.00	- 43,160,000.00	92,340,000.00	21,380,000.00	
0.00	- 7,082.00	58,460.00	- 35,560,000.00	- 1,850,000.00	22.49	
0.00	- 18,620.00	58,460.00	34,940,000.00	- 1,850,000.00	- 354,600.00	
0.00	- 18,620.00	58,460.00	34,940,000.00	- 1,850,000.00	- 354,600.00	
14,210.00	- 7,082.00	65,620.00	- 85,340,000.00	98,880,000.00	24,950,000.00	
14,210.00	- 7,082.00	54,100.00	- 22,510,000.00	100,600,000.00	24,950,000.00	
14,210.00	- 7,082.00	65,620.00	- 85,340,000.00	98,880,000.00	24,950,000.00	
14,210.00	- 7,082.00	69,980.00	- 98,390,000.00	98,880,000.00	24,950,000.00	
14,210.00	- 7,082.00	69,980.00	- 98,390,000.00	98,880,000.00	24,950,000.00	
14,210.00	- 4,460.00	65,620.00	- 14,840,000.00	98,880,000.00	24,600,000.00	
14,210.00	- 18,620.00	58,460.00	34,940,000.00	100,600,000.00	24,600,000.00	
14,210.00	- 4,459.00	69,980.00	- 27,890,000.00	98,880,000.00	24,600,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 183 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
	14,210.00	-	18,620.00		58,460.00	34,940,000.00		100,600,000.00		24,600,000.00
	14,210.00	-	4,459.00		69,980.00	- 27,890,000.00		98,880,000.00		24,600,000.00
	- 693.00	-	7,082.00		63,500.00	- 57,580,000.00	-	8,883,000.00	-	3,219,000.00
	- 693.00	-	4,460.00		70,660.00	- 36,870,000.00	-	10,630,000.00	-	3,574,000.00
	- 693.00	-	18,620.00		63,500.00	12,910,000.00	-	8,883,000.00	-	3,574,000.00
	- 693.00	-	4,459.00		75,020.00	- 49,910,000.00	-	10,630,000.00	-	3,574,000.00
	13,510.00	-	7,082.00		63,500.00	- 57,590,000.00		93,590,000.00		21,740,000.00
	13,510.00	-	7,082.00		75,020.00	- 120,400,000.00		91,850,000.00		21,740,000.00
	13,510.00	-	7,082.00		63,500.00	- 57,590,000.00		93,590,000.00		21,740,000.00
	13,510.00	-	7,082.00		75,020.00	- 120,400,000.00		91,850,000.00		21,740,000.00
	13,510.00	-	11,540.00		69,260.00	- 18,500,000.00		92,720,000.00		21,380,000.00
	13,510.00	-	11,540.00		69,260.00	- 18,500,000.00		92,720,000.00		21,380,000.00
	13,510.00	-	4,459.00		70,660.00	- 36,870,000.00		91,850,000.00		21,380,000.00
	13,510.00	-	18,620.00		63,500.00	12,910,000.00		93,590,000.00		21,380,000.00
	13,510.00	-	4,459.00		75,020.00	- 49,910,000.00		91,850,000.00		21,380,000.00
	13,510.00	-	18,620.00		63,500.00	12,910,000.00		93,590,000.00		21,380,000.00
	13,510.00	-	4,459.00		75,020.00	- 49,910,000.00		91,850,000.00		21,380,000.00
	- 14,210.00		3,537.00		43,220.00	- 75,990,000.00	-	103,800,000.00	-	24,600,000.00
	- 14,210.00		17,700.00		54,740.00	- 138,800,000.00	-	105,600,000.00	-	24,600,000.00
	- 14,900.00		10,620.00		54,020.00	- 129,400,000.00	-	111,700,000.00	-	27,820,000.00
	- 14,900.00		10,620.00		54,020.00	- 129,400,000.00	-	111,700,000.00	-	27,820,000.00
	0.00		7,082.00		59,390.00	- 82,290,000.00	-	3,595,000.00		31.92
	0.00		3,537.00		47,870.00	- 82,740,000.00	-	1,850,000.00		354,700.00
	- 14,210.00	-	7,082.00		47,870.00	- 19,460,000.00	-	104,300,000.00	-	24,950,000.00
	- 14,210.00		3,537.00		47,870.00	- 82,740,000.00	-	104,300,000.00	-	24,600,000.00
	- 14,210.00		3,537.00		47,870.00	- 82,740,000.00	-	104,300,000.00	-	24,600,000.00
	- 14,210.00		17,700.00		59,390.00	- 145,600,000.00	-	106,100,000.00	-	24,600,000.00
	- 693.00	-	7,082.00		52,910.00	- 41,490,000.00	-	8,883,000.00	-	3,219,000.00
	- 693.00		7,082.00		64,430.00	- 104,300,000.00	-	10,630,000.00	-	3,219,000.00
	- 693.00		3,537.00		52,910.00	- 104,800,000.00	-	8,883,000.00	-	2,864,000.00
	- 14,900.00	-	7,082.00		52,910.00	- 41,490,000.00	-	111,400,000.00	-	28,170,000.00
	- 14,900.00		7,082.00		64,430.00	- 104,300,000.00	-	113,100,000.00	-	28,170,000.00
	- 14,900.00		3,537.00		52,910.00	- 104,800,000.00	-	111,400,000.00	-	27,820,000.00
	0.00	-	7,082.00		49,450.00	- 15,760,000.00	-	1,355,000.00		13.21
	0.00		7,082.00		60,970.00	- 78,590,000.00	-	3,100,000.00		30.22
	- 14,210.00		7,082.00		60,970.00	- 78,590,000.00	-	105,600,000.00	-	24,950,000.00
	- 14,210.00	-	7,082.00		49,450.00	- 15,760,000.00	-	103,800,000.00	-	24,950,000.00
	- 14,210.00		7,082.00		60,970.00	- 78,590,000.00	-	105,600,000.00	-	24,950,000.00
	- 14,900.00		3,537.00		54,490.00	- 101,100,000.00	-	110,900,000.00	-	27,820,000.00
	- 14,900.00		17,700.00		66,010.00	- 163,900,000.00	-	112,600,000.00	-	27,820,000.00
	- 14,210.00		3,537.00		54,100.00	- 85,800,000.00	-	104,300,000.00	-	24,600,000.00
	- 14,210.00		17,700.00		65,620.00	- 148,600,000.00	-	106,100,000.00	-	24,600,000.00
	- 693.00		17,700.00		70,660.00	- 170,600,000.00	-	10,630,000.00	-	2,864,000.00
	- 14,900.00		10,620.00		64,900.00	- 139,200,000.00	-	112,200,000.00	-	27,820,000.00
	- 14,900.00		3,537.00		59,140.00	- 107,800,000.00	-	111,400,000.00	-	27,820,000.00
	- 14,900.00		3,537.00		59,140.00	- 107,800,000.00	-	111,400,000.00	-	27,820,000.00
	0.00		3,537.00		43,220.00	- 75,990,000.00	-	1,355,000.00		354,700.00
	0.00		17,700.00		54,740.00	- 138,800,000.00	-	3,100,000.00		354,700.00
	- 14,210.00	-	7,082.00		43,220.00	- 12,710,000.00	-	103,800,000.00	-	24,950,000.00
	- 14,210.00		7,082.00		54,740.00	- 75,530,000.00	-	105,600,000.00	-	24,950,000.00
	- 14,210.00		3,537.00		43,220.00	- 75,990,000.00	-	103,800,000.00	-	24,600,000.00
	- 14,210.00		17,700.00		54,740.00	- 138,800,000.00	-	105,600,000.00	-	24,600,000.00
	- 14,210.00		3,537.00		43,220.00	- 75,990,000.00	-	103,800,000.00	-	24,600,000.00
	- 14,210.00		17,700.00		54,740.00	- 138,800,000.00	-	105,600,000.00	-	24,600,000.00
	- 693.00		7,082.00		59,780.00	- 97,560,000.00	-	10,130,000.00	-	3,219,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 184 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	693.00		17,700.00		59,780.00	- 160,800,000.00	-	10,130,000.00	-	2,864,000.00
-	693.00		17,700.00		59,780.00	- 160,800,000.00	-	10,130,000.00	-	2,864,000.00
-	14,900.00	-	7,082.00		48,260.00	- 34,730,000.00	-	110,900,000.00	-	28,170,000.00
-	14,900.00		7,082.00		59,780.00	- 97,560,000.00	-	112,600,000.00	-	28,170,000.00
-	14,900.00		10,620.00		54,020.00	- 129,400,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		3,537.00		48,260.00	- 98,020,000.00	-	110,900,000.00	-	27,820,000.00
-	14,900.00		17,700.00		59,780.00	- 160,800,000.00	-	112,600,000.00	-	27,820,000.00
	0.00		3,537.00		47,870.00	- 82,740,000.00	-	1,850,000.00		354,700.00
-	14,210.00	-	7,082.00		47,870.00	- 19,460,000.00	-	104,300,000.00	-	24,950,000.00
-	14,210.00		7,082.00		59,390.00	- 82,290,000.00	-	106,100,000.00	-	24,950,000.00
-	14,210.00		17,700.00		59,390.00	- 145,600,000.00	-	106,100,000.00	-	24,600,000.00
-	14,210.00		3,537.00		47,870.00	- 82,740,000.00	-	104,300,000.00	-	24,600,000.00
-	14,210.00		17,700.00		59,390.00	- 145,600,000.00	-	106,100,000.00	-	24,600,000.00
-	693.00		7,082.00		64,430.00	- 104,300,000.00	-	10,630,000.00	-	3,219,000.00
-	693.00		3,537.00		52,910.00	- 104,800,000.00	-	8,883,000.00	-	2,864,000.00
-	14,900.00	-	7,082.00		52,910.00	- 41,490,000.00	-	111,400,000.00	-	28,170,000.00
-	14,900.00		7,082.00		64,430.00	- 104,300,000.00	-	113,100,000.00	-	28,170,000.00
-	14,900.00		10,620.00		58,670.00	- 136,200,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		10,620.00		58,670.00	- 136,200,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		17,700.00		64,430.00	- 167,600,000.00	-	113,100,000.00	-	27,820,000.00
-	14,900.00		3,537.00		52,910.00	- 104,800,000.00	-	111,400,000.00	-	27,820,000.00
-	14,900.00		17,700.00		64,430.00	- 167,600,000.00	-	113,100,000.00	-	27,820,000.00
	0.00	-	7,082.00		49,450.00	- 15,760,000.00	-	1,355,000.00		13.07
	0.00		3,537.00		49,450.00	- 79,040,000.00	-	1,355,000.00		354,700.00
-	14,210.00	-	7,082.00		49,450.00	- 15,760,000.00	-	103,800,000.00	-	24,950,000.00
-	14,210.00		7,082.00		60,970.00	- 78,590,000.00	-	105,600,000.00	-	24,950,000.00
-	14,210.00		3,537.00		49,450.00	- 79,040,000.00	-	103,800,000.00	-	24,600,000.00
-	14,210.00		17,700.00		60,970.00	- 141,900,000.00	-	105,600,000.00	-	24,600,000.00
-	693.00		3,537.00		54,490.00	- 101,100,000.00	-	8,388,000.00	-	2,864,000.00
-	693.00		17,700.00		66,010.00	- 163,900,000.00	-	10,130,000.00	-	2,864,000.00
-	14,900.00		7,082.00		66,010.00	- 100,600,000.00	-	112,600,000.00	-	28,170,000.00
-	14,900.00		10,620.00		60,250.00	- 132,500,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		3,537.00		54,490.00	- 101,100,000.00	-	110,900,000.00	-	27,820,000.00
-	14,900.00		3,537.00		54,490.00	- 101,100,000.00	-	110,900,000.00	-	27,820,000.00
-	14,900.00		17,700.00		66,010.00	- 163,900,000.00	-	112,600,000.00	-	27,820,000.00
-	14,210.00		17,700.00		65,620.00	- 148,600,000.00	-	106,100,000.00	-	24,600,000.00
-	14,210.00		3,537.00		54,100.00	- 85,800,000.00	-	104,300,000.00	-	24,600,000.00
-	14,210.00		17,700.00		65,620.00	- 148,600,000.00	-	106,100,000.00	-	24,600,000.00
-	693.00		3,537.00		59,140.00	- 107,800,000.00	-	8,883,000.00	-	2,864,000.00
-	693.00		17,700.00		70,660.00	- 170,600,000.00	-	10,630,000.00	-	2,864,000.00
-	14,900.00	-	7,082.00		59,140.00	- 44,540,000.00	-	111,400,000.00	-	28,170,000.00
-	14,900.00		7,082.00		70,660.00	- 107,400,000.00	-	113,100,000.00	-	28,170,000.00
-	14,900.00		10,620.00		64,900.00	- 139,200,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		10,620.00		64,900.00	- 139,200,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		3,537.00		59,140.00	- 107,800,000.00	-	111,400,000.00	-	27,820,000.00
-	14,900.00		17,700.00		70,660.00	- 170,600,000.00	-	113,100,000.00	-	27,820,000.00
	0.00	-	7,082.00		43,220.00	- 12,710,000.00	-	1,355,000.00		11.95
	0.00		7,082.00		54,740.00	- 75,530,000.00	-	3,100,000.00		28.96
	0.00		17,700.00		54,740.00	- 138,800,000.00	-	3,100,000.00		354,700.00
	0.00		3,537.00		43,220.00	- 75,990,000.00	-	1,355,000.00		354,700.00
	0.00		17,700.00		54,740.00	- 138,800,000.00	-	3,100,000.00		354,700.00
	0.00		3,537.00		47,570.00	- 89,040,000.00	-	1,355,000.00		354,700.00
	0.00		3,537.00		47,570.00	- 89,040,000.00	-	1,355,000.00		354,700.00
	0.00		17,700.00		59,090.00	- 151,900,000.00	-	3,100,000.00		354,700.00
-	14,210.00		7,082.00		59,090.00	- 88,580,000.00	-	105,600,000.00	-	24,950,000.00



<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 185 di 215

Reazioni vincolari - EQU							
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>		
-	14,210.00	3,537.00	47,570.00	- 89,040,000.00	- 103,800,000.00	- 24,600,000.00	
-	14,210.00	17,700.00	59,090.00	- 151,900,000.00	- 105,600,000.00	- 24,600,000.00	
-	14,210.00	3,537.00	47,570.00	- 89,040,000.00	- 103,800,000.00	- 24,600,000.00	
-	14,210.00	17,700.00	59,090.00	- 151,900,000.00	- 105,600,000.00	- 24,600,000.00	
-	693.00	17,700.00	59,780.00	- 160,800,000.00	- 10,130,000.00	- 2,864,000.00	
-	693.00	17,700.00	64,130.00	- 173,900,000.00	- 10,130,000.00	- 2,864,000.00	
-	693.00	3,537.00	52,610.00	- 111,100,000.00	- 8,388,000.00	- 2,864,000.00	
-	693.00	17,700.00	64,130.00	- 173,900,000.00	- 10,130,000.00	- 2,864,000.00	
-	14,900.00	7,082.00	59,780.00	- 97,560,000.00	- 112,600,000.00	- 28,170,000.00	
-	14,900.00	-	7,082.00	48,260.00	- 34,730,000.00	- 110,900,000.00	- 28,170,000.00
-	14,900.00	7,082.00	59,780.00	- 97,560,000.00	- 112,600,000.00	- 28,170,000.00	
-	14,900.00	-	7,082.00	52,610.00	- 47,780,000.00	- 110,900,000.00	- 28,170,000.00
-	14,900.00	7,082.00	64,130.00	- 110,600,000.00	- 112,600,000.00	- 28,170,000.00	
-	14,900.00	-	7,082.00	52,610.00	- 47,780,000.00	- 110,900,000.00	- 28,170,000.00
-	14,900.00	10,620.00	58,370.00	- 142,500,000.00	- 111,700,000.00	- 27,820,000.00	
-	14,900.00	10,620.00	58,370.00	- 142,500,000.00	- 111,700,000.00	- 27,820,000.00	
-	14,900.00	3,537.00	48,260.00	- 98,020,000.00	- 110,900,000.00	- 27,820,000.00	
-	14,900.00	17,700.00	59,780.00	- 160,800,000.00	- 112,600,000.00	- 27,820,000.00	
-	14,900.00	3,537.00	48,260.00	- 98,020,000.00	- 110,900,000.00	- 27,820,000.00	
-	14,900.00	17,700.00	59,780.00	- 160,800,000.00	- 112,600,000.00	- 27,820,000.00	
-	14,900.00	3,537.00	52,610.00	- 111,100,000.00	- 110,900,000.00	- 27,820,000.00	
-	14,900.00	17,700.00	64,130.00	- 173,900,000.00	- 112,600,000.00	- 27,820,000.00	
-	14,900.00	3,537.00	52,610.00	- 111,100,000.00	- 110,900,000.00	- 27,820,000.00	
-	14,900.00	17,700.00	64,130.00	- 173,900,000.00	- 112,600,000.00	- 27,820,000.00	
0.00	0.00	3,537.00	47,870.00	- 82,740,000.00	- 1,850,000.00	354,700.00	
0.00	0.00	17,700.00	59,390.00	- 145,600,000.00	- 3,595,000.00	354,700.00	
0.00	0.00	3,537.00	52,230.00	- 95,790,000.00	- 1,850,000.00	354,700.00	
-	14,210.00	-	7,082.00	52,230.00	- 32,510,000.00	- 104,300,000.00	- 24,950,000.00
-	14,210.00	7,082.00	63,750.00	- 95,340,000.00	- 106,100,000.00	- 24,950,000.00	
-	14,210.00	7,082.00	63,750.00	- 95,340,000.00	- 106,100,000.00	- 24,950,000.00	
-	14,210.00	3,537.00	52,230.00	- 95,790,000.00	- 104,300,000.00	- 24,600,000.00	
-	14,210.00	17,700.00	63,750.00	- 158,600,000.00	- 106,100,000.00	- 24,600,000.00	
-	14,210.00	3,537.00	52,230.00	- 95,790,000.00	- 104,300,000.00	- 24,600,000.00	
-	14,210.00	17,700.00	63,750.00	- 158,600,000.00	- 106,100,000.00	- 24,600,000.00	
-	693.00	-	7,082.00	57,270.00	- 54,530,000.00	- 8,883,000.00	- 3,219,000.00
-	693.00	7,082.00	68,790.00	- 117,400,000.00	- 10,630,000.00	- 3,219,000.00	
-	693.00	3,537.00	52,910.00	- 104,800,000.00	- 8,883,000.00	- 2,864,000.00	
-	693.00	17,700.00	64,430.00	- 167,600,000.00	- 10,630,000.00	- 2,864,000.00	
-	693.00	17,700.00	64,430.00	- 167,600,000.00	- 10,630,000.00	- 2,864,000.00	
-	693.00	3,537.00	57,270.00	- 117,800,000.00	- 8,883,000.00	- 2,864,000.00	
-	693.00	17,700.00	68,790.00	- 180,600,000.00	- 10,630,000.00	- 2,864,000.00	
-	693.00	17,700.00	68,790.00	- 180,600,000.00	- 10,630,000.00	- 2,864,000.00	
-	14,900.00	-	7,082.00	57,270.00	- 54,530,000.00	- 111,400,000.00	- 28,170,000.00
-	14,900.00	-	7,082.00	57,270.00	- 54,530,000.00	- 111,400,000.00	- 28,170,000.00
-	14,900.00	7,082.00	68,790.00	- 117,400,000.00	- 113,100,000.00	- 28,170,000.00	
-	14,900.00	10,620.00	58,670.00	- 136,200,000.00	- 112,200,000.00	- 27,820,000.00	
-	14,900.00	10,620.00	63,030.00	- 149,200,000.00	- 112,200,000.00	- 27,820,000.00	
-	14,900.00	10,620.00	63,030.00	- 149,200,000.00	- 112,200,000.00	- 27,820,000.00	
-	14,900.00	3,537.00	52,910.00	- 104,800,000.00	- 111,400,000.00	- 27,820,000.00	
-	14,900.00	17,700.00	64,430.00	- 167,600,000.00	- 113,100,000.00	- 27,820,000.00	
-	14,900.00	3,537.00	57,270.00	- 117,800,000.00	- 111,400,000.00	- 27,820,000.00	
-	14,900.00	17,700.00	68,790.00	- 180,600,000.00	- 113,100,000.00	- 27,820,000.00	
-	14,900.00	3,537.00	57,270.00	- 117,800,000.00	- 111,400,000.00	- 27,820,000.00	
-	14,900.00	17,700.00	68,790.00	- 180,600,000.00	- 113,100,000.00	- 27,820,000.00	
0.00	-	7,082.00	53,800.00	- 28,810,000.00	- 1,355,000.00	19.24	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45

Progetto  
IN17Lotto  
10Codifica Documento  
EI2CLOC000006Rev.  
AFoglio  
186 di 215

## Reazioni vincolari - EQU

Rx	N	Ry	N	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
	0.00		7,082.00		65,320.00	-	91,630,000.00	-	3,100,000.00		36.24
	0.00	-	7,082.00		53,800.00	-	28,810,000.00	-	1,355,000.00		19.38
	0.00		7,082.00		65,320.00	-	91,630,000.00	-	3,100,000.00		36.39
	0.00		3,537.00		49,450.00	-	79,040,000.00	-	1,355,000.00		354,700.00
	0.00		3,537.00		49,450.00	-	79,040,000.00	-	1,355,000.00		354,700.00
	0.00		17,700.00		60,970.00	-	141,900,000.00	-	3,100,000.00		354,700.00
-	14,210.00	-	7,082.00		49,450.00	-	15,760,000.00	-	103,800,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00		53,800.00	-	28,810,000.00	-	103,800,000.00	-	24,950,000.00
-	14,210.00		7,082.00		65,320.00	-	91,630,000.00	-	105,600,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00		53,800.00	-	28,810,000.00	-	103,800,000.00	-	24,950,000.00
-	14,210.00		3,537.00		49,450.00	-	79,040,000.00	-	103,800,000.00	-	24,600,000.00
-	14,210.00		17,700.00		60,970.00	-	141,900,000.00	-	105,600,000.00	-	24,600,000.00
-	14,210.00		3,537.00		49,450.00	-	79,040,000.00	-	103,800,000.00	-	24,600,000.00
-	14,210.00		17,700.00		60,970.00	-	141,900,000.00	-	105,600,000.00	-	24,600,000.00
-	14,210.00		3,537.00		53,800.00	-	92,090,000.00	-	103,800,000.00	-	24,600,000.00
-	14,210.00		17,700.00		65,320.00	-	154,900,000.00	-	105,600,000.00	-	24,600,000.00
-	14,210.00		3,537.00		53,800.00	-	92,090,000.00	-	103,800,000.00	-	24,600,000.00
-	14,210.00		17,700.00		65,320.00	-	154,900,000.00	-	105,600,000.00	-	24,600,000.00
-	693.00	-	7,082.00		54,490.00	-	37,780,000.00	-	8,388,000.00	-	3,219,000.00
-	693.00		7,082.00		70,360.00	-	113,700,000.00	-	10,130,000.00	-	3,219,000.00
-	693.00		3,537.00		58,840.00	-	114,100,000.00	-	8,388,000.00	-	2,864,000.00
-	693.00		17,700.00		70,360.00	-	176,900,000.00	-	10,130,000.00	-	2,864,000.00
-	693.00		17,700.00		70,360.00	-	176,900,000.00	-	10,130,000.00	-	2,864,000.00
-	14,900.00	-	7,082.00		58,840.00	-	50,830,000.00	-	110,900,000.00	-	28,170,000.00
-	14,900.00		7,082.00		70,360.00	-	113,700,000.00	-	112,600,000.00	-	28,170,000.00
-	14,900.00		10,620.00		60,250.00	-	132,500,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		10,620.00		60,250.00	-	132,500,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		10,620.00		64,600.00	-	145,500,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		10,620.00		64,600.00	-	145,500,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		17,700.00		66,010.00	-	163,900,000.00	-	112,600,000.00	-	27,820,000.00
-	14,900.00		3,537.00		58,840.00	-	114,100,000.00	-	110,900,000.00	-	27,820,000.00
-	14,900.00		17,700.00		70,360.00	-	176,900,000.00	-	112,600,000.00	-	27,820,000.00
-	14,900.00		3,537.00		58,840.00	-	114,100,000.00	-	110,900,000.00	-	27,820,000.00
-	14,900.00		17,700.00		70,360.00	-	176,900,000.00	-	112,600,000.00	-	27,820,000.00
	0.00		7,082.00		69,980.00	-	98,390,000.00	-	3,595,000.00		39.35
	0.00		7,082.00		69,980.00	-	98,390,000.00	-	3,595,000.00		39.50
	0.00		3,537.00		54,100.00	-	85,800,000.00	-	1,850,000.00		354,700.00
	0.00		3,537.00		54,100.00	-	85,800,000.00	-	1,850,000.00		354,700.00
	0.00		17,700.00		65,620.00	-	148,600,000.00	-	3,595,000.00		354,700.00
	0.00		3,537.00		58,460.00	-	98,840,000.00	-	1,850,000.00		354,700.00
	0.00		17,700.00		69,980.00	-	161,700,000.00	-	3,595,000.00		354,700.00
-	14,210.00	-	7,082.00		58,460.00	-	35,560,000.00	-	104,300,000.00	-	24,950,000.00
-	14,210.00		3,537.00		54,100.00	-	85,800,000.00	-	104,300,000.00	-	24,600,000.00
-	14,210.00		3,537.00		58,460.00	-	98,840,000.00	-	104,300,000.00	-	24,600,000.00
-	14,210.00		17,700.00		69,980.00	-	161,700,000.00	-	106,100,000.00	-	24,600,000.00
-	14,210.00		3,537.00		58,460.00	-	98,840,000.00	-	104,300,000.00	-	24,600,000.00
-	14,210.00		17,700.00		69,980.00	-	161,700,000.00	-	106,100,000.00	-	24,600,000.00
-	693.00	-	7,082.00		59,140.00	-	44,540,000.00	-	8,883,000.00	-	3,219,000.00
-	693.00		7,082.00		70,660.00	-	107,400,000.00	-	10,630,000.00	-	3,219,000.00
-	693.00		7,082.00		75,020.00	-	120,400,000.00	-	10,630,000.00	-	3,219,000.00
-	693.00		3,537.00		59,140.00	-	107,800,000.00	-	8,883,000.00	-	2,864,000.00
-	693.00		17,700.00		75,020.00	-	183,700,000.00	-	10,630,000.00	-	2,864,000.00
-	14,900.00		7,082.00		70,660.00	-	107,400,000.00	-	113,100,000.00	-	28,170,000.00
-	14,900.00		7,082.00		75,020.00	-	120,400,000.00	-	113,100,000.00	-	28,170,000.00
-	14,900.00		10,620.00		69,260.00	-	152,300,000.00	-	112,200,000.00	-	27,820,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 187 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,900.00		10,620.00		69,260.00	- 152,300,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		17,700.00		70,660.00	- 170,600,000.00	-	113,100,000.00	-	27,820,000.00
-	14,900.00		17,700.00		70,660.00	- 170,600,000.00	-	113,100,000.00	-	27,820,000.00
-	14,900.00		3,537.00		63,500.00	- 120,900,000.00	-	111,400,000.00	-	27,820,000.00
-	14,900.00		17,700.00		75,020.00	- 183,700,000.00	-	113,100,000.00	-	27,820,000.00
-	14,900.00		3,537.00		63,500.00	- 120,900,000.00	-	111,400,000.00	-	27,820,000.00
-	14,900.00		17,700.00		75,020.00	- 183,700,000.00	-	113,100,000.00	-	27,820,000.00
	0.00	-	4,460.00		54,740.00	- 5,038,000.00	-	3,100,000.00	-	354,600.00
-	14,210.00	-	7,082.00		43,220.00	- 12,710,000.00	-	103,800,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00		54,740.00	- 75,530,000.00	-	105,600,000.00	-	24,950,000.00
-	693.00	-	7,082.00		48,260.00	- 34,730,000.00	-	8,388,000.00	-	3,219,000.00
-	693.00	-	7,082.00		59,780.00	- 97,560,000.00	-	10,130,000.00	-	3,219,000.00
-	693.00	-	18,620.00		48,260.00	35,760,000.00	-	8,388,000.00	-	3,574,000.00
-	14,900.00	-	11,540.00		54,020.00	4,350,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00		48,260.00	35,760,000.00	-	110,900,000.00	-	28,530,000.00
	0.00	-	7,082.00		47,870.00	- 19,460,000.00	-	1,850,000.00		15.06
	0.00	-	7,082.00		59,390.00	- 82,290,000.00	-	3,595,000.00		32.07
	0.00	-	4,460.00		59,390.00	- 11,790,000.00	-	3,595,000.00	-	354,600.00
-	0.00	-	18,620.00		47,870.00	51,030,000.00	-	1,850,000.00	-	354,600.00
-	14,210.00	-	7,082.00		47,870.00	- 19,460,000.00	-	104,300,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00		59,390.00	- 82,290,000.00	-	106,100,000.00	-	24,950,000.00
-	14,210.00	-	18,620.00		47,870.00	51,030,000.00	-	104,300,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00		47,870.00	51,030,000.00	-	104,300,000.00	-	25,310,000.00
-	693.00	-	18,620.00		52,910.00	29,010,000.00	-	8,883,000.00	-	3,574,000.00
-	693.00	-	4,460.00		64,430.00	- 33,820,000.00	-	10,630,000.00	-	3,574,000.00
-	14,210.00	-	4,460.00		60,970.00	- 8,088,000.00	-	105,600,000.00	-	25,310,000.00
-	693.00	-	18,620.00		54,490.00	32,710,000.00	-	8,388,000.00	-	3,574,000.00
-	14,900.00	-	7,082.00		54,490.00	- 37,780,000.00	-	110,900,000.00	-	28,170,000.00
-	14,900.00	-	7,082.00		66,010.00	- 100,600,000.00	-	112,600,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00		60,250.00	1,300,000.00	-	111,700,000.00	-	28,530,000.00
	0.00	-	18,620.00		54,100.00	47,980,000.00	-	1,850,000.00	-	354,600.00
	0.00	-	18,620.00		54,100.00	47,980,000.00	-	1,850,000.00	-	354,600.00
-	14,210.00	-	18,620.00		54,100.00	47,980,000.00	-	104,300,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00		65,620.00	- 14,840,000.00	-	106,100,000.00	-	25,310,000.00
-	693.00	-	4,460.00		70,660.00	- 36,870,000.00	-	10,630,000.00	-	3,574,000.00
-	14,900.00	-	11,540.00		64,900.00	- 5,455,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00		64,900.00	- 5,455,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00		70,660.00	- 36,870,000.00	-	113,100,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00		59,140.00	25,960,000.00	-	111,400,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00		70,660.00	- 36,870,000.00	-	113,100,000.00	-	28,530,000.00
-	0.00	-	18,620.00		43,220.00	57,790,000.00	-	1,355,000.00	-	354,600.00
	0.00	-	4,460.00		54,740.00	- 5,038,000.00	-	3,100,000.00	-	354,600.00
-	14,210.00	-	18,620.00		43,220.00	57,790,000.00	-	103,800,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00		54,740.00	- 5,038,000.00	-	105,600,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00		43,220.00	57,790,000.00	-	103,800,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00		54,740.00	- 5,038,000.00	-	105,600,000.00	-	25,310,000.00
-	693.00	-	7,082.00		48,260.00	- 34,730,000.00	-	8,388,000.00	-	3,219,000.00
-	693.00	-	4,460.00		59,780.00	- 27,060,000.00	-	10,130,000.00	-	3,574,000.00
-	14,900.00	-	7,082.00		48,260.00	- 34,730,000.00	-	110,900,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00		54,020.00	4,350,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00		48,260.00	35,760,000.00	-	110,900,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00		59,780.00	- 27,060,000.00	-	112,600,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00		48,260.00	35,760,000.00	-	110,900,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00		59,780.00	- 27,060,000.00	-	112,600,000.00	-	28,530,000.00
-	14,210.00	-	18,620.00		47,870.00	51,030,000.00	-	104,300,000.00	-	25,310,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 188 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,210.00	-	4,460.00	59,390.00	-	11,790,000.00	-	106,100,000.00	-	25,310,000.00
-	693.00	-	18,620.00	52,910.00		29,010,000.00	-	8,883,000.00	-	3,574,000.00
-	693.00	-	4,460.00	64,430.00	-	33,820,000.00	-	10,630,000.00	-	3,574,000.00
-	14,900.00		7,082.00	64,430.00	-	104,300,000.00	-	113,100,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	58,670.00	-	2,404,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00	52,910.00		29,010,000.00	-	111,400,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00	64,430.00	-	33,820,000.00	-	113,100,000.00	-	28,530,000.00
	0.00	-	4,460.00	60,970.00	-	8,088,000.00	-	3,100,000.00	-	354,600.00
	0.00	-	18,620.00	49,450.00		54,740,000.00	-	1,355,000.00	-	354,600.00
-	14,210.00	-	18,620.00	49,450.00		54,740,000.00	-	103,800,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00	60,970.00	-	8,088,000.00	-	105,600,000.00	-	25,310,000.00
-	693.00	-	7,082.00	54,490.00	-	37,780,000.00	-	8,388,000.00	-	3,219,000.00
-	14,900.00	-	7,082.00	54,490.00	-	37,780,000.00	-	110,900,000.00	-	28,170,000.00
-	14,900.00	-	7,082.00	54,490.00	-	37,780,000.00	-	110,900,000.00	-	28,170,000.00
-	14,900.00		7,082.00	66,010.00	-	100,600,000.00	-	112,600,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	60,250.00		1,300,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	60,250.00		1,300,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00	66,010.00	-	30,110,000.00	-	112,600,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00	54,490.00		32,710,000.00	-	110,900,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00	66,010.00	-	30,110,000.00	-	112,600,000.00	-	28,530,000.00
	0.00	-	7,082.00	54,100.00	-	22,510,000.00	-	1,850,000.00		16.17
	0.00	-	18,620.00	54,100.00		47,980,000.00	-	1,850,000.00	-	354,600.00
	0.00	-	4,460.00	65,620.00	-	14,840,000.00	-	3,595,000.00	-	354,600.00
-	14,210.00	-	7,082.00	54,100.00	-	22,510,000.00	-	104,300,000.00	-	24,950,000.00
-	14,210.00		7,082.00	65,620.00	-	85,340,000.00	-	106,100,000.00	-	24,950,000.00
-	14,210.00	-	18,620.00	54,100.00		47,980,000.00	-	104,300,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00	65,620.00	-	14,840,000.00	-	106,100,000.00	-	25,310,000.00
-	693.00	-	7,082.00	59,140.00	-	44,540,000.00	-	8,883,000.00	-	3,219,000.00
-	693.00		7,082.00	70,660.00	-	107,400,000.00	-	10,630,000.00	-	3,219,000.00
-	14,900.00		7,082.00	70,660.00	-	107,400,000.00	-	113,100,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	64,900.00	-	5,455,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00	59,140.00		25,960,000.00	-	111,400,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00	59,140.00		25,960,000.00	-	111,400,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00	70,660.00	-	36,870,000.00	-	113,100,000.00	-	28,530,000.00
	0.00	-	7,082.00	47,570.00	-	25,760,000.00	-	1,355,000.00		17.97
	0.00		7,082.00	59,090.00	-	88,580,000.00	-	3,100,000.00		34.98
	0.00	-	18,620.00	47,570.00		44,740,000.00	-	1,355,000.00	-	354,600.00
	0.00	-	4,460.00	59,090.00	-	18,080,000.00	-	3,100,000.00	-	354,600.00
	0.00	-	18,620.00	47,570.00		44,740,000.00	-	1,355,000.00	-	354,600.00
-	14,210.00	-	7,082.00	43,220.00	-	12,710,000.00	-	103,800,000.00	-	24,950,000.00
-	14,210.00		7,082.00	54,740.00	-	75,530,000.00	-	105,600,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00	47,570.00	-	25,760,000.00	-	103,800,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00	47,570.00	-	25,760,000.00	-	103,800,000.00	-	24,950,000.00
-	14,210.00		7,082.00	59,090.00	-	88,580,000.00	-	105,600,000.00	-	24,950,000.00
-	14,210.00	-	18,620.00	43,220.00		57,790,000.00	-	103,800,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00	54,740.00	-	5,038,000.00	-	105,600,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00	47,570.00		44,740,000.00	-	103,800,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00	59,090.00	-	18,080,000.00	-	105,600,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00	47,570.00		44,740,000.00	-	103,800,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00	59,090.00	-	18,080,000.00	-	105,600,000.00	-	25,310,000.00
-	693.00	-	7,082.00	52,610.00	-	47,780,000.00	-	8,388,000.00	-	3,219,000.00
-	693.00		7,082.00	64,130.00	-	110,600,000.00	-	10,130,000.00	-	3,219,000.00
-	693.00	-	7,082.00	52,610.00	-	47,780,000.00	-	8,388,000.00	-	3,219,000.00
-	693.00		7,082.00	64,130.00	-	110,600,000.00	-	10,130,000.00	-	3,219,000.00
-	693.00	-	18,620.00	52,610.00		22,720,000.00	-	8,388,000.00	-	3,574,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 189 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	693.00	-	18,620.00		52,610.00	22,720,000.00	-	8,388,000.00	-	3,574,000.00
-	693.00	-	4,460.00		64,130.00	40,110,000.00	-	10,130,000.00	-	3,574,000.00
-	14,900.00		7,082.00		64,130.00	110,600,000.00	-	112,600,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00		54,020.00	4,350,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00		58,370.00	8,696,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00		58,370.00	8,696,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00		59,780.00	27,060,000.00	-	112,600,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00		52,610.00	22,720,000.00	-	110,900,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00		64,130.00	40,110,000.00	-	112,600,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00		52,610.00	22,720,000.00	-	110,900,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00		64,130.00	40,110,000.00	-	112,600,000.00	-	28,530,000.00
	0.00	-	18,620.00		47,870.00	51,030,000.00	-	1,850,000.00	-	354,600.00
	0.00	-	4,460.00		59,390.00	11,790,000.00	-	3,595,000.00	-	354,600.00
	0.00	-	18,620.00		52,230.00	37,990,000.00	-	1,850,000.00	-	354,600.00
	0.00	-	4,460.00		63,750.00	24,840,000.00	-	3,595,000.00	-	354,600.00
	0.00	-	18,620.00		52,230.00	37,990,000.00	-	1,850,000.00	-	354,600.00
	0.00	-	4,460.00		63,750.00	24,840,000.00	-	3,595,000.00	-	354,600.00
-	14,210.00		7,082.00		59,390.00	82,290,000.00	-	106,100,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00		52,230.00	32,510,000.00	-	104,300,000.00	-	24,950,000.00
-	14,210.00	-	4,460.00		59,390.00	11,790,000.00	-	106,100,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00		59,390.00	11,790,000.00	-	106,100,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00		52,230.00	37,990,000.00	-	104,300,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00		63,750.00	24,840,000.00	-	106,100,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00		52,230.00	37,990,000.00	-	104,300,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00		63,750.00	24,840,000.00	-	106,100,000.00	-	25,310,000.00
-	693.00	-	7,082.00		52,910.00	41,490,000.00	-	8,883,000.00	-	3,219,000.00
-	693.00		7,082.00		64,430.00	104,300,000.00	-	10,630,000.00	-	3,219,000.00
-	693.00	-	7,082.00		57,270.00	54,530,000.00	-	8,883,000.00	-	3,219,000.00
-	693.00		7,082.00		68,790.00	117,400,000.00	-	10,630,000.00	-	3,219,000.00
-	693.00	-	4,459.00		68,790.00	46,860,000.00	-	10,630,000.00	-	3,574,000.00
-	693.00	-	4,459.00		68,790.00	46,860,000.00	-	10,630,000.00	-	3,574,000.00
-	14,900.00	-	7,082.00		52,910.00	41,490,000.00	-	111,400,000.00	-	28,170,000.00
-	14,900.00		7,082.00		68,790.00	117,400,000.00	-	113,100,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00		58,670.00	2,404,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00		58,670.00	2,404,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00		63,030.00	15,450,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00		63,030.00	15,450,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00		52,910.00	29,010,000.00	-	111,400,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00		64,430.00	33,820,000.00	-	113,100,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00		52,910.00	29,010,000.00	-	111,400,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00		64,430.00	33,820,000.00	-	113,100,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00		57,270.00	15,960,000.00	-	111,400,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00		68,790.00	46,860,000.00	-	113,100,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00		57,270.00	15,960,000.00	-	111,400,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00		68,790.00	46,860,000.00	-	113,100,000.00	-	28,530,000.00
-	0.00	-	18,620.00		49,450.00	54,740,000.00	-	1,355,000.00	-	354,600.00
	0.00	-	4,460.00		60,970.00	8,088,000.00	-	3,100,000.00	-	354,600.00
	0.00	-	18,620.00		53,800.00	41,690,000.00	-	1,355,000.00	-	354,600.00
	0.00	-	4,460.00		65,320.00	21,130,000.00	-	3,100,000.00	-	354,600.00
-	14,210.00		7,082.00		65,320.00	91,630,000.00	-	105,600,000.00	-	24,950,000.00
-	14,210.00	-	18,620.00		49,450.00	54,740,000.00	-	103,800,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00		60,970.00	8,088,000.00	-	105,600,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00		49,450.00	54,740,000.00	-	103,800,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00		53,800.00	41,690,000.00	-	103,800,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00		65,320.00	21,130,000.00	-	105,600,000.00	-	25,310,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 190 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,210.00	-	18,620.00		53,800.00	41,690,000.00	-	103,800,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00		65,320.00	- 21,130,000.00	-	105,600,000.00	-	25,310,000.00
-	693.00	-	7,082.00		54,490.00	- 37,780,000.00	-	8,388,000.00	-	3,219,000.00
-	693.00	-	4,460.00		66,010.00	- 30,110,000.00	-	10,130,000.00	-	3,574,000.00
-	693.00	-	18,620.00		58,840.00	19,670,000.00	-	8,388,000.00	-	3,574,000.00
-	693.00	-	4,459.00		70,360.00	- 43,160,000.00	-	10,130,000.00	-	3,574,000.00
-	14,900.00	-	7,082.00		58,840.00	- 50,830,000.00	-	110,900,000.00	-	28,170,000.00
-	14,900.00	-	7,082.00		70,360.00	- 113,700,000.00	-	112,600,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00		64,600.00	- 11,750,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00		64,600.00	- 11,750,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00		54,490.00	32,710,000.00	-	110,900,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00		54,490.00	32,710,000.00	-	110,900,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00		66,010.00	- 30,110,000.00	-	112,600,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00		58,840.00	19,670,000.00	-	110,900,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00		70,360.00	- 43,160,000.00	-	112,600,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00		58,840.00	19,670,000.00	-	110,900,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00		70,360.00	- 43,160,000.00	-	112,600,000.00	-	28,530,000.00
	0.00	-	7,082.00		58,460.00	- 35,560,000.00	-	1,850,000.00		22.34
	0.00	-	4,460.00		65,620.00	- 14,840,000.00	-	3,595,000.00	-	354,600.00
	0.00	-	4,460.00		69,980.00	- 27,890,000.00	-	3,595,000.00	-	354,600.00
	0.00	-	4,460.00		69,980.00	- 27,890,000.00	-	3,595,000.00	-	354,600.00
-	14,210.00	-	7,082.00		54,100.00	- 22,510,000.00	-	104,300,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00		65,620.00	- 85,340,000.00	-	106,100,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00		54,100.00	- 22,510,000.00	-	104,300,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00		65,620.00	- 85,340,000.00	-	106,100,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00		69,980.00	- 98,390,000.00	-	106,100,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00		58,460.00	- 35,560,000.00	-	104,300,000.00	-	24,950,000.00
-	14,210.00	-	7,082.00		69,980.00	- 98,390,000.00	-	106,100,000.00	-	24,950,000.00
-	14,210.00	-	18,620.00		54,100.00	47,980,000.00	-	104,300,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00		65,620.00	- 14,840,000.00	-	106,100,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00		58,460.00	34,940,000.00	-	104,300,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00		69,980.00	- 27,890,000.00	-	106,100,000.00	-	25,310,000.00
-	14,210.00	-	18,620.00		58,460.00	34,940,000.00	-	104,300,000.00	-	25,310,000.00
-	14,210.00	-	4,460.00		69,980.00	- 27,890,000.00	-	106,100,000.00	-	25,310,000.00
-	693.00	-	7,082.00		75,020.00	- 120,400,000.00	-	10,630,000.00	-	3,219,000.00
-	693.00	-	18,620.00		63,500.00	12,910,000.00	-	8,883,000.00	-	3,574,000.00
-	693.00	-	4,459.00		75,020.00	- 49,910,000.00	-	10,630,000.00	-	3,574,000.00
-	14,900.00	-	7,082.00		59,140.00	- 44,540,000.00	-	111,400,000.00	-	28,170,000.00
-	14,900.00	-	7,082.00		59,140.00	- 44,540,000.00	-	111,400,000.00	-	28,170,000.00
-	14,900.00	-	7,082.00		63,500.00	- 57,580,000.00	-	111,400,000.00	-	28,170,000.00
-	14,900.00	-	7,082.00		63,500.00	- 57,580,000.00	-	111,400,000.00	-	28,170,000.00
-	14,900.00	-	7,082.00		75,020.00	- 120,400,000.00	-	113,100,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00		69,260.00	- 18,500,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00		69,260.00	- 18,500,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00		63,500.00	12,910,000.00	-	111,400,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00		75,020.00	- 49,910,000.00	-	113,100,000.00	-	28,530,000.00
-	14,900.00	-	18,620.00		63,500.00	12,910,000.00	-	111,400,000.00	-	28,530,000.00
-	14,900.00	-	4,460.00		75,020.00	- 49,910,000.00	-	113,100,000.00	-	28,530,000.00
	0.00	-	4,249.00		54,230.00	- 51,370,000.00	-	1,704,000.00		27.25
	0.00		4,249.00		61,150.00	- 89,060,000.00	-	2,751,000.00		37.60
	0.00		10,620.00		57,690.00	- 133,500,000.00	-	2,228,000.00		354,700.00
	0.00		6,370.00		54,230.00	- 114,600,000.00	-	1,704,000.00		354,700.00
	0.00		14,870.00		61,150.00	- 152,300,000.00	-	2,751,000.00		354,700.00
14,210.00		0.06			57,690.00	- 70,210,000.00		100,200,000.00		24,950,000.00
14,210.00		0.06			57,690.00	- 70,210,000.00		100,200,000.00		24,950,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 191 di 215

Reazioni vincolari - EQU								
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>			
14,210.00	-	4,249.00	54,230.00	-	51,370,000.00	100,800,000.00	24,950,000.00	
14,210.00		4,249.00	61,150.00	-	89,060,000.00	99,730,000.00	24,950,000.00	
14,210.00	-	4,249.00	54,230.00	-	51,370,000.00	100,800,000.00	24,950,000.00	
14,210.00		4,249.00	61,150.00	-	89,060,000.00	99,730,000.00	24,950,000.00	
14,210.00		10,620.00	57,690.00	-	133,500,000.00	100,200,000.00	25,310,000.00	
14,210.00		10,620.00	57,690.00	-	133,500,000.00	100,200,000.00	25,310,000.00	
14,210.00		6,370.00	54,230.00	-	114,600,000.00	100,800,000.00	25,310,000.00	
14,210.00		14,870.00	61,150.00	-	152,300,000.00	99,730,000.00	25,310,000.00	
14,210.00		6,370.00	54,230.00	-	114,600,000.00	100,800,000.00	25,310,000.00	
14,210.00		14,870.00	61,150.00	-	152,300,000.00	99,730,000.00	25,310,000.00	
-	693.00	4,249.00	66,190.00	-	111,100,000.00	-	9,784,000.00	-
-	693.00	10,620.00	62,730.00	-	155,500,000.00	-	9,261,000.00	-
-	693.00	10,620.00	62,730.00	-	155,500,000.00	-	9,261,000.00	-
-	693.00	6,370.00	59,270.00	-	136,700,000.00	-	8,737,000.00	-
-	693.00	14,870.00	66,190.00	-	174,400,000.00	-	9,784,000.00	-
13,510.00		0.08	62,730.00	-	92,240,000.00	93,220,000.00	21,740,000.00	
13,510.00		0.08	62,730.00	-	92,240,000.00	93,220,000.00	21,740,000.00	
13,510.00		4,249.00	66,190.00	-	111,100,000.00	92,690,000.00	21,740,000.00	
13,510.00		10,620.00	62,730.00	-	155,500,000.00	93,220,000.00	22,090,000.00	
13,510.00		10,620.00	62,730.00	-	155,500,000.00	93,220,000.00	22,090,000.00	
13,510.00		6,370.00	50,560.00	-	110,600,000.00	93,740,000.00	22,090,000.00	
13,510.00		14,870.00	57,470.00	-	148,300,000.00	92,690,000.00	22,090,000.00	
13,510.00		6,370.00	50,560.00	-	110,600,000.00	93,740,000.00	22,090,000.00	
13,510.00		14,870.00	57,470.00	-	148,300,000.00	92,690,000.00	22,090,000.00	
13,510.00		6,370.00	59,270.00	-	136,700,000.00	93,740,000.00	22,090,000.00	
13,510.00		14,870.00	66,190.00	-	174,400,000.00	92,690,000.00	22,090,000.00	
13,510.00		6,370.00	59,270.00	-	136,700,000.00	93,740,000.00	22,090,000.00	
13,510.00		14,870.00	66,190.00	-	174,400,000.00	92,690,000.00	22,090,000.00	
0.00		0.06	62,350.00	-	76,970,000.00	-	2,723,000.00	35.60
0.00	-	4,249.00	58,890.00	-	58,120,000.00	-	2,199,000.00	30.50
0.00		4,249.00	65,800.00	-	95,820,000.00	-	3,246,000.00	40.71
0.00		10,620.00	62,350.00	-	140,300,000.00	-	2,723,000.00	354,700.00
0.00		10,620.00	62,350.00	-	140,300,000.00	-	2,723,000.00	354,700.00
0.00		6,370.00	58,890.00	-	121,400,000.00	-	2,199,000.00	354,700.00
0.00		6,370.00	58,890.00	-	121,400,000.00	-	2,199,000.00	354,700.00
14,210.00		0.07	62,350.00	-	76,970,000.00	99,750,000.00	24,950,000.00	
14,210.00		0.07	62,350.00	-	76,970,000.00	99,750,000.00	24,950,000.00	
14,210.00	-	4,249.00	58,890.00	-	58,120,000.00	100,300,000.00	24,950,000.00	
14,210.00	-	4,249.00	58,890.00	-	58,120,000.00	100,300,000.00	24,950,000.00	
14,210.00		4,249.00	65,800.00	-	95,820,000.00	99,230,000.00	24,950,000.00	
14,210.00		10,620.00	62,350.00	-	140,300,000.00	99,750,000.00	25,310,000.00	
14,210.00		10,620.00	62,350.00	-	140,300,000.00	99,750,000.00	25,310,000.00	
14,210.00		6,370.00	58,890.00	-	121,400,000.00	100,300,000.00	25,310,000.00	
14,210.00		14,870.00	65,800.00	-	159,100,000.00	99,230,000.00	25,310,000.00	
14,210.00		6,370.00	58,890.00	-	121,400,000.00	100,300,000.00	25,310,000.00	
14,210.00		14,870.00	65,800.00	-	159,100,000.00	99,230,000.00	25,310,000.00	
-	693.00	10,620.00	67,390.00	-	162,300,000.00	-	9,756,000.00	-
-	693.00	6,370.00	63,930.00	-	143,400,000.00	-	9,232,000.00	-
-	693.00	14,870.00	70,840.00	-	181,100,000.00	-	10,280,000.00	-
13,510.00		0.08	67,390.00	-	98,990,000.00	92,720,000.00	21,740,000.00	
13,510.00	-	4,249.00	63,930.00	-	80,150,000.00	93,240,000.00	21,740,000.00	
13,510.00		10,620.00	67,390.00	-	162,300,000.00	92,720,000.00	22,090,000.00	
13,510.00		10,620.00	67,390.00	-	162,300,000.00	92,720,000.00	22,090,000.00	
13,510.00		6,370.00	55,220.00	-	117,300,000.00	93,240,000.00	22,090,000.00	
13,510.00		14,870.00	62,130.00	-	155,000,000.00	92,200,000.00	22,090,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 192 di 215

Reazioni vincolari - EQU						
<b>Rx</b> <b>N</b>	<b>Ry</b> <b>N</b>	<b>N</b> <b>N</b>	<b>Mx</b> <b>Nmm</b>	<b>My</b> <b>Nmm</b>	<b>Mz</b> <b>Nmm</b>	
13,510.00	6,370.00	55,220.00	- 117,300,000.00	93,240,000.00	22,090,000.00	
13,510.00	14,870.00	62,130.00	- 155,000,000.00	92,200,000.00	22,090,000.00	
13,510.00	6,370.00	63,930.00	- 143,400,000.00	93,240,000.00	22,090,000.00	
13,510.00	14,870.00	70,840.00	- 181,100,000.00	92,200,000.00	22,090,000.00	
13,510.00	6,370.00	63,930.00	- 143,400,000.00	93,240,000.00	22,090,000.00	
13,510.00	14,870.00	70,840.00	- 181,100,000.00	92,200,000.00	22,090,000.00	
0.00	0.05	63,920.00	- 73,260,000.00	- 2,228,000.00	33.76	
0.00	- 4,249.00	60,460.00	- 54,420,000.00	- 1,704,000.00	28.66	
0.00	4,249.00	67,380.00	- 92,110,000.00	- 2,751,000.00	38.86	
0.00	10,620.00	63,920.00	- 136,500,000.00	- 2,228,000.00	354,700.00	
0.00	6,370.00	60,460.00	- 117,700,000.00	- 1,704,000.00	354,700.00	
0.00	6,370.00	60,460.00	- 117,700,000.00	- 1,704,000.00	354,700.00	
14,210.00	0.07	63,920.00	- 73,270,000.00	100,200,000.00	24,950,000.00	
14,210.00	0.07	63,920.00	- 73,270,000.00	100,200,000.00	24,950,000.00	
14,210.00	4,249.00	67,380.00	- 92,110,000.00	99,730,000.00	24,950,000.00	
14,210.00	- 4,249.00	60,460.00	- 54,420,000.00	100,800,000.00	24,950,000.00	
14,210.00	4,249.00	67,380.00	- 92,110,000.00	99,730,000.00	24,950,000.00	
14,210.00	10,620.00	63,920.00	- 136,500,000.00	100,200,000.00	25,310,000.00	
14,210.00	10,620.00	63,920.00	- 136,500,000.00	100,200,000.00	25,310,000.00	
14,210.00	6,370.00	60,460.00	- 117,700,000.00	100,800,000.00	25,310,000.00	
14,210.00	14,870.00	67,380.00	- 155,400,000.00	99,730,000.00	25,310,000.00	
14,210.00	6,370.00	60,460.00	- 117,700,000.00	100,800,000.00	25,310,000.00	
14,210.00	14,870.00	67,380.00	- 155,400,000.00	99,730,000.00	25,310,000.00	
- 693.00	0.07	68,960.00	- 95,290,000.00	- 9,261,000.00	- 3,219,000.00	
- 693.00	- 4,249.00	65,500.00	- 76,440,000.00	- 8,737,000.00	- 3,219,000.00	
- 693.00	6,370.00	65,500.00	- 139,700,000.00	- 8,737,000.00	- 2,864,000.00	
13,510.00	0.08	68,960.00	- 95,290,000.00	93,220,000.00	21,740,000.00	
13,510.00	0.08	68,960.00	- 95,290,000.00	93,220,000.00	21,740,000.00	
13,510.00	4,249.00	72,420.00	- 114,100,000.00	92,690,000.00	21,740,000.00	
13,510.00	- 4,249.00	65,500.00	- 76,440,000.00	93,740,000.00	21,740,000.00	
13,510.00	4,249.00	72,420.00	- 114,100,000.00	92,690,000.00	21,740,000.00	
13,510.00	10,620.00	68,960.00	- 158,600,000.00	93,220,000.00	22,090,000.00	
13,510.00	10,620.00	68,960.00	- 158,600,000.00	93,220,000.00	22,090,000.00	
13,510.00	6,370.00	56,790.00	- 113,600,000.00	93,740,000.00	22,090,000.00	
13,510.00	14,870.00	63,700.00	- 151,300,000.00	92,690,000.00	22,090,000.00	
13,510.00	6,370.00	56,790.00	- 113,600,000.00	93,740,000.00	22,090,000.00	
13,510.00	14,870.00	63,700.00	- 151,300,000.00	92,690,000.00	22,090,000.00	
13,510.00	6,370.00	65,500.00	- 139,700,000.00	93,740,000.00	22,090,000.00	
13,510.00	14,870.00	72,420.00	- 177,400,000.00	92,690,000.00	22,090,000.00	
13,510.00	6,370.00	65,500.00	- 139,700,000.00	93,740,000.00	22,090,000.00	
13,510.00	14,870.00	72,420.00	- 177,400,000.00	92,690,000.00	22,090,000.00	
0.00	10,620.00	68,570.00	- 143,300,000.00	- 2,723,000.00	354,700.00	
0.00	10,620.00	68,570.00	- 143,300,000.00	- 2,723,000.00	354,700.00	
0.00	6,370.00	65,120.00	- 124,500,000.00	- 2,199,000.00	354,700.00	
0.00	14,870.00	72,030.00	- 162,100,000.00	- 3,246,000.00	354,700.00	
14,210.00	0.07	68,570.00	- 80,020,000.00	99,750,000.00	24,950,000.00	
14,210.00	- 4,249.00	65,120.00	- 61,170,000.00	100,300,000.00	24,950,000.00	
14,210.00	10,620.00	68,570.00	- 143,300,000.00	99,750,000.00	25,310,000.00	
14,210.00	10,620.00	68,570.00	- 143,300,000.00	99,750,000.00	25,310,000.00	
14,210.00	6,370.00	65,120.00	- 124,500,000.00	100,300,000.00	25,310,000.00	
14,210.00	14,870.00	72,030.00	- 162,100,000.00	99,230,000.00	25,310,000.00	
14,210.00	6,370.00	65,120.00	- 124,500,000.00	100,300,000.00	25,310,000.00	
14,210.00	14,870.00	72,030.00	- 162,100,000.00	99,230,000.00	25,310,000.00	
- 693.00	0.07	73,610.00	- 102,000,000.00	- 9,756,000.00	- 3,219,000.00	
- 693.00	10,620.00	73,610.00	- 165,300,000.00	- 9,756,000.00	- 2,864,000.00	



<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 193 di 215

Reazioni vincolari - EQU											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	693.00		10,620.00		73,610.00	-	165,300,000.00	-	9,756,000.00	-	2,864,000.00
-	693.00		14,870.00		77,070.00	-	184,200,000.00	-	10,280,000.00	-	2,864,000.00
-	693.00		14,870.00		77,070.00	-	184,200,000.00	-	10,280,000.00	-	2,864,000.00
	13,510.00	-	4,249.00		70,160.00	-	83,200,000.00		93,240,000.00		21,740,000.00
	13,510.00		10,620.00		73,610.00	-	165,300,000.00		92,720,000.00		22,090,000.00
	13,510.00		10,620.00		73,610.00	-	165,300,000.00		92,720,000.00		22,090,000.00
	13,510.00		6,370.00		61,450.00	-	120,400,000.00		93,240,000.00		22,090,000.00
	13,510.00		14,870.00		68,360.00	-	158,100,000.00		92,200,000.00		22,090,000.00
	13,510.00		6,370.00		61,450.00	-	120,400,000.00		93,240,000.00		22,090,000.00
	13,510.00		14,870.00		68,360.00	-	158,100,000.00		92,200,000.00		22,090,000.00
	13,510.00		6,370.00		70,160.00	-	146,500,000.00		93,240,000.00		22,090,000.00
	13,510.00		14,870.00		77,070.00	-	184,200,000.00		92,200,000.00		22,090,000.00
	13,510.00		6,370.00		70,160.00	-	146,500,000.00		93,240,000.00		22,090,000.00
	13,510.00		14,870.00		77,070.00	-	184,200,000.00		92,200,000.00		22,090,000.00
	0.00		0.05		57,690.00	-	70,210,000.00	-	2,228,000.00		32.50
	0.00	-	11,540.00		57,690.00		282,400.00	-	2,228,000.00	-	354,600.00
	0.00	-	15,790.00		54,230.00		19,130,000.00	-	1,704,000.00	-	354,600.00
	0.00	-	7,292.00		61,150.00	-	18,570,000.00	-	2,751,000.00	-	354,600.00
	0.00	-	7,292.00		61,150.00	-	18,570,000.00	-	2,751,000.00	-	354,600.00
	14,210.00	-	11,540.00		57,690.00		282,300.00		100,200,000.00		24,600,000.00
	14,210.00	-	11,540.00		57,690.00		282,300.00		100,200,000.00		24,600,000.00
	14,210.00	-	15,790.00		54,230.00		19,130,000.00		100,800,000.00		24,600,000.00
	14,210.00	-	7,292.00		61,150.00	-	18,570,000.00		99,730,000.00		24,600,000.00
	14,210.00	-	15,790.00		54,230.00		19,130,000.00		100,800,000.00		24,600,000.00
	14,210.00	-	7,292.00		61,150.00	-	18,570,000.00		99,730,000.00		24,600,000.00
-	693.00	-	4,249.00		59,270.00	-	73,390,000.00	-	8,737,000.00	-	3,219,000.00
-	693.00		4,249.00		66,190.00	-	111,100,000.00	-	9,784,000.00	-	3,219,000.00
-	693.00	-	11,540.00		62,730.00	-	21,740,000.00	-	9,261,000.00	-	3,574,000.00
-	693.00	-	11,540.00		62,730.00	-	21,740,000.00	-	9,261,000.00	-	3,574,000.00
-	693.00	-	7,292.00		66,190.00	-	40,590,000.00	-	9,784,000.00	-	3,574,000.00
	13,510.00	-	4,249.00		59,270.00	-	73,390,000.00		93,740,000.00		21,740,000.00
	13,510.00		4,249.00		66,190.00	-	111,100,000.00		92,690,000.00		21,740,000.00
	13,510.00	-	4,249.00		59,270.00	-	73,390,000.00		93,740,000.00		21,740,000.00
	13,510.00	-	11,540.00		62,730.00	-	21,740,000.00		93,220,000.00		21,380,000.00
	13,510.00	-	11,540.00		62,730.00	-	21,740,000.00		93,220,000.00		21,380,000.00
	13,510.00	-	15,790.00		50,560.00		23,200,000.00		93,740,000.00		21,380,000.00
	13,510.00	-	7,292.00		57,470.00	-	14,500,000.00		92,690,000.00		21,380,000.00
	13,510.00	-	15,790.00		50,560.00		23,200,000.00		93,740,000.00		21,380,000.00
	13,510.00	-	7,292.00		57,470.00	-	14,500,000.00		92,690,000.00		21,380,000.00
	13,510.00	-	15,790.00		59,270.00	-	2,895,000.00		93,740,000.00		21,380,000.00
	13,510.00	-	7,292.00		66,190.00	-	40,590,000.00		92,690,000.00		21,380,000.00
	13,510.00	-	15,790.00		59,270.00	-	2,895,000.00		93,740,000.00		21,380,000.00
	13,510.00	-	7,292.00		66,190.00	-	40,590,000.00		92,690,000.00		21,380,000.00
	0.00	-	4,249.00		58,890.00	-	58,120,000.00	-	2,199,000.00		30.35
	0.00		4,249.00		65,800.00	-	95,820,000.00	-	3,246,000.00		40.56
	0.00	-	11,540.00		62,350.00	-	6,472,000.00	-	2,723,000.00	-	354,600.00
	0.00	-	15,790.00		58,890.00		12,380,000.00	-	2,199,000.00	-	354,600.00
	0.00	-	7,292.00		65,800.00	-	25,320,000.00	-	3,246,000.00	-	354,600.00
	14,210.00		4,249.00		65,800.00	-	95,820,000.00		99,230,000.00		24,950,000.00
	14,210.00	-	11,540.00		62,350.00	-	6,472,000.00		99,750,000.00		24,600,000.00
	14,210.00	-	11,540.00		62,350.00	-	6,472,000.00		99,750,000.00		24,600,000.00
	14,210.00	-	15,790.00		58,890.00		12,380,000.00		100,300,000.00		24,600,000.00
	14,210.00	-	7,292.00		65,800.00	-	25,320,000.00		99,230,000.00		24,600,000.00
	14,210.00	-	15,790.00		58,890.00		12,380,000.00		100,300,000.00		24,600,000.00
	14,210.00	-	7,292.00		65,800.00	-	25,320,000.00		99,230,000.00		24,600,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 194 di 215
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>						

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	693.00	-	4,249.00	63,930.00	-	80,150,000.00	-	9,232,000.00	-	3,219,000.00
-	693.00	-	4,249.00	63,930.00	-	80,150,000.00	-	9,232,000.00	-	3,219,000.00
-	693.00		4,249.00	70,840.00	-	117,800,000.00	-	10,280,000.00	-	3,219,000.00
-	693.00	-	11,540.00	67,390.00	-	28,500,000.00	-	9,756,000.00	-	3,574,000.00
-	693.00	-	7,292.00	70,840.00	-	47,340,000.00	-	10,280,000.00	-	3,574,000.00
-	693.00	-	15,790.00	63,930.00	-	9,649,000.00	-	9,232,000.00	-	3,574,000.00
	13,510.00		0.08	67,390.00	-	98,990,000.00		92,720,000.00		21,740,000.00
	13,510.00	-	4,249.00	63,930.00	-	80,150,000.00		93,240,000.00		21,740,000.00
	13,510.00		4,249.00	70,840.00	-	117,800,000.00		92,200,000.00		21,740,000.00
	13,510.00		4,249.00	70,840.00	-	117,800,000.00		92,200,000.00		21,740,000.00
	13,510.00	-	11,540.00	67,390.00	-	28,500,000.00		92,720,000.00		21,380,000.00
	13,510.00	-	11,540.00	67,390.00	-	28,500,000.00		92,720,000.00		21,380,000.00
	13,510.00	-	15,790.00	55,220.00		16,440,000.00		93,240,000.00		21,380,000.00
	13,510.00	-	7,292.00	62,130.00	-	21,250,000.00		92,200,000.00		21,380,000.00
	13,510.00	-	15,790.00	55,220.00		16,440,000.00		93,240,000.00		21,380,000.00
	13,510.00	-	7,292.00	62,130.00	-	21,250,000.00		92,200,000.00		21,380,000.00
	13,510.00	-	15,790.00	63,930.00	-	9,649,000.00		93,240,000.00		21,380,000.00
	13,510.00	-	7,292.00	70,840.00	-	47,340,000.00		92,200,000.00		21,380,000.00
	13,510.00	-	15,790.00	63,930.00	-	9,649,000.00		93,240,000.00		21,380,000.00
	13,510.00	-	7,292.00	70,840.00	-	47,340,000.00		92,200,000.00		21,380,000.00
	0.00	-	4,249.00	60,460.00	-	54,420,000.00	-	1,704,000.00		28.80
	0.00		4,249.00	67,380.00	-	92,110,000.00	-	2,751,000.00		39.01
	0.00	-	11,540.00	63,920.00	-	2,768,000.00	-	2,228,000.00	-	354,600.00
	0.00	-	15,790.00	60,460.00		16,080,000.00	-	1,704,000.00	-	354,600.00
	0.00	-	7,292.00	67,380.00	-	21,620,000.00	-	2,751,000.00	-	354,600.00
	14,210.00	-	4,249.00	60,460.00	-	54,420,000.00		100,800,000.00		24,950,000.00
	14,210.00	-	11,540.00	63,920.00	-	2,768,000.00		100,200,000.00		24,600,000.00
	14,210.00	-	11,540.00	63,920.00	-	2,768,000.00		100,200,000.00		24,600,000.00
	14,210.00	-	15,790.00	60,460.00		16,080,000.00		100,800,000.00		24,600,000.00
	14,210.00	-	7,292.00	67,380.00	-	21,620,000.00		99,730,000.00		24,600,000.00
	14,210.00	-	15,790.00	60,460.00		16,080,000.00		100,800,000.00		24,600,000.00
	14,210.00	-	7,292.00	67,380.00	-	21,620,000.00		99,730,000.00		24,600,000.00
-	693.00		4,249.00	72,420.00	-	114,100,000.00	-	9,784,000.00	-	3,219,000.00
-	693.00	-	11,540.00	68,960.00	-	24,790,000.00	-	9,261,000.00	-	3,574,000.00
-	693.00	-	7,292.00	72,420.00	-	43,640,000.00	-	9,784,000.00	-	3,574,000.00
-	693.00	-	7,292.00	72,420.00	-	43,640,000.00	-	9,784,000.00	-	3,574,000.00
	13,510.00	-	4,249.00	65,500.00	-	76,440,000.00		93,740,000.00		21,740,000.00
	13,510.00	-	11,540.00	68,960.00	-	24,790,000.00		93,220,000.00		21,380,000.00
	13,510.00	-	11,540.00	68,960.00	-	24,790,000.00		93,220,000.00		21,380,000.00
	13,510.00	-	15,790.00	56,790.00		20,150,000.00		93,740,000.00		21,380,000.00
	13,510.00	-	7,292.00	63,700.00	-	17,550,000.00		92,690,000.00		21,380,000.00
	13,510.00	-	15,790.00	56,790.00		20,150,000.00		93,740,000.00		21,380,000.00
	13,510.00	-	7,292.00	63,700.00	-	17,550,000.00		92,690,000.00		21,380,000.00
	13,510.00	-	15,790.00	65,500.00	-	5,945,000.00		93,740,000.00		21,380,000.00
	13,510.00	-	7,292.00	72,420.00	-	43,640,000.00		92,690,000.00		21,380,000.00
	13,510.00	-	15,790.00	65,500.00	-	5,945,000.00		93,740,000.00		21,380,000.00
	13,510.00	-	7,292.00	72,420.00	-	43,640,000.00		92,690,000.00		21,380,000.00
	0.00	-	4,249.00	65,120.00	-	61,170,000.00	-	2,199,000.00		31.91
	0.00		4,249.00	72,030.00	-	98,870,000.00	-	3,246,000.00		42.11
	0.00	-	11,540.00	68,570.00	-	9,522,000.00	-	2,723,000.00	-	354,600.00
	0.00	-	15,790.00	65,120.00		9,325,000.00	-	2,199,000.00	-	354,600.00
	14,210.00		0.07	68,570.00	-	80,020,000.00		99,750,000.00		24,950,000.00
	14,210.00	-	4,249.00	65,120.00	-	61,170,000.00		100,300,000.00		24,950,000.00
	14,210.00		4,249.00	72,030.00	-	98,870,000.00		99,230,000.00		24,950,000.00
	14,210.00		4,249.00	72,030.00	-	98,870,000.00		99,230,000.00		24,950,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 195 di 215

Reazioni vincolari - EQU							
Rx	Ry		N	Mx	My	Mz	
N	N		N	Nmm	Nmm	Nmm	
14,210.00	-	11,540.00	68,570.00	- 9,523,000.00	99,750,000.00	24,600,000.00	
14,210.00	-	11,540.00	68,570.00	- 9,523,000.00	99,750,000.00	24,600,000.00	
14,210.00	-	15,790.00	65,120.00	9,325,000.00	100,300,000.00	24,600,000.00	
14,210.00	-	7,292.00	72,030.00	- 28,370,000.00	99,230,000.00	24,600,000.00	
14,210.00	-	15,790.00	65,120.00	9,325,000.00	100,300,000.00	24,600,000.00	
14,210.00	-	7,292.00	72,030.00	- 28,370,000.00	99,230,000.00	24,600,000.00	
- 693.00	-	0.07	73,610.00	- 102,000,000.00	- 9,756,000.00	-	3,219,000.00
- 693.00	-	4,249.00	70,160.00	- 83,200,000.00	- 9,232,000.00	-	3,219,000.00
- 693.00	-	11,540.00	73,610.00	- 31,550,000.00	- 9,756,000.00	-	3,574,000.00
- 693.00	-	15,790.00	70,160.00	- 12,700,000.00	- 9,232,000.00	-	3,574,000.00
13,510.00	-	0.08	73,610.00	- 102,000,000.00	92,720,000.00	21,740,000.00	
13,510.00	-	0.08	73,610.00	- 102,000,000.00	92,720,000.00	21,740,000.00	
13,510.00	-	4,249.00	70,160.00	- 83,200,000.00	93,240,000.00	21,740,000.00	
13,510.00	-	4,249.00	77,070.00	- 120,900,000.00	92,200,000.00	21,740,000.00	
13,510.00	-	4,249.00	77,070.00	- 120,900,000.00	92,200,000.00	21,740,000.00	
13,510.00	-	11,540.00	73,610.00	- 31,550,000.00	92,720,000.00	21,380,000.00	
13,510.00	-	11,540.00	73,610.00	- 31,550,000.00	92,720,000.00	21,380,000.00	
13,510.00	-	15,790.00	61,450.00	13,390,000.00	93,240,000.00	21,380,000.00	
13,510.00	-	7,292.00	68,360.00	- 24,300,000.00	92,200,000.00	21,380,000.00	
13,510.00	-	15,790.00	61,450.00	13,390,000.00	93,240,000.00	21,380,000.00	
13,510.00	-	7,292.00	68,360.00	- 24,300,000.00	92,200,000.00	21,380,000.00	
13,510.00	-	15,790.00	70,160.00	- 12,700,000.00	93,240,000.00	21,380,000.00	
13,510.00	-	7,292.00	77,070.00	- 50,400,000.00	92,200,000.00	21,380,000.00	
13,510.00	-	15,790.00	70,160.00	- 12,700,000.00	93,240,000.00	21,380,000.00	
13,510.00	-	7,292.00	77,070.00	- 50,400,000.00	92,200,000.00	21,380,000.00	
0.00	-	4,249.00	54,230.00	- 51,370,000.00	- 1,704,000.00	27.40	
0.00	-	10,620.00	57,690.00	- 133,500,000.00	- 2,228,000.00	354,700.00	
0.00	-	6,370.00	54,230.00	- 114,600,000.00	- 1,704,000.00	354,700.00	
0.00	-	14,870.00	61,150.00	- 152,300,000.00	- 2,751,000.00	354,700.00	
- 14,210.00	-	0.04	57,690.00	- 70,210,000.00	- 104,700,000.00	-	24,950,000.00
- 14,210.00	-	4,249.00	54,230.00	- 51,370,000.00	- 104,200,000.00	-	24,950,000.00
- 14,210.00	-	4,249.00	61,150.00	- 89,060,000.00	- 105,200,000.00	-	24,950,000.00
- 14,210.00	-	4,249.00	54,230.00	- 51,370,000.00	- 104,200,000.00	-	24,950,000.00
- 14,210.00	-	4,249.00	61,150.00	- 89,060,000.00	- 105,200,000.00	-	24,950,000.00
- 14,210.00	-	10,620.00	57,690.00	- 133,500,000.00	- 104,700,000.00	-	24,600,000.00
- 14,210.00	-	10,620.00	57,690.00	- 133,500,000.00	- 104,700,000.00	-	24,600,000.00
- 14,210.00	-	6,370.00	54,230.00	- 114,600,000.00	- 104,200,000.00	-	24,600,000.00
- 14,210.00	-	14,870.00	61,150.00	- 152,300,000.00	- 105,200,000.00	-	24,600,000.00
- 14,210.00	-	6,370.00	54,230.00	- 114,600,000.00	- 104,200,000.00	-	24,600,000.00
- 14,210.00	-	14,870.00	61,150.00	- 152,300,000.00	- 105,200,000.00	-	24,600,000.00
- 693.00	-	14,870.00	66,190.00	- 174,400,000.00	- 9,784,000.00	-	2,864,000.00
- 693.00	-	6,370.00	59,270.00	- 136,700,000.00	- 8,737,000.00	-	2,864,000.00
- 14,900.00	-	0.05	62,730.00	- 92,240,000.00	- 111,700,000.00	-	28,170,000.00
- 14,900.00	-	4,249.00	59,270.00	- 73,390,000.00	- 111,200,000.00	-	28,170,000.00
- 14,900.00	-	4,249.00	66,190.00	- 111,100,000.00	- 112,300,000.00	-	28,170,000.00
- 14,900.00	-	10,620.00	62,730.00	- 155,500,000.00	- 111,700,000.00	-	27,820,000.00
- 14,900.00	-	10,620.00	62,730.00	- 155,500,000.00	- 111,700,000.00	-	27,820,000.00
- 14,900.00	-	6,370.00	50,560.00	- 110,600,000.00	- 111,200,000.00	-	27,820,000.00
- 14,900.00	-	14,870.00	57,470.00	- 148,300,000.00	- 112,300,000.00	-	27,820,000.00
- 14,900.00	-	6,370.00	50,560.00	- 110,600,000.00	- 111,200,000.00	-	27,820,000.00
- 14,900.00	-	14,870.00	57,470.00	- 148,300,000.00	- 112,300,000.00	-	27,820,000.00
- 14,900.00	-	6,370.00	59,270.00	- 136,700,000.00	- 111,200,000.00	-	27,820,000.00
- 14,900.00	-	14,870.00	66,190.00	- 174,400,000.00	- 112,300,000.00	-	27,820,000.00
- 14,900.00	-	6,370.00	59,270.00	- 136,700,000.00	- 111,200,000.00	-	27,820,000.00
- 14,900.00	-	14,870.00	66,190.00	- 174,400,000.00	- 112,300,000.00	-	27,820,000.00

<b>GENERAL CONTRACTOR</b>   <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>   <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 196 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
	0.00		14,870.00		65,800.00	- 159,100,000.00	-	3,246,000.00		354,700.00
	0.00		14,870.00		65,800.00	- 159,100,000.00	-	3,246,000.00		354,700.00
-	14,210.00		0.04		62,350.00	- 76,970,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		0.04		62,350.00	- 76,970,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		58,890.00	- 58,120,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00		65,800.00	- 95,820,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00		10,620.00		62,350.00	- 140,300,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		10,620.00		62,350.00	- 140,300,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		58,890.00	- 121,400,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		14,870.00		65,800.00	- 159,100,000.00	-	105,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00		58,890.00	- 121,400,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		14,870.00		65,800.00	- 159,100,000.00	-	105,700,000.00	-	24,600,000.00
-	693.00		10,620.00		67,390.00	- 162,300,000.00	-	9,756,000.00	-	2,864,000.00
-	693.00		6,370.00		63,930.00	- 143,400,000.00	-	9,232,000.00	-	2,864,000.00
-	693.00		14,870.00		70,840.00	- 181,100,000.00	-	10,280,000.00	-	2,864,000.00
-	14,900.00		0.06		67,390.00	- 98,990,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		0.06		67,390.00	- 98,990,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		63,930.00	- 80,150,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		63,930.00	- 80,150,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		4,249.00		70,840.00	- 117,800,000.00	-	112,800,000.00	-	28,170,000.00
-	14,900.00		10,620.00		67,390.00	- 162,300,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		10,620.00		67,390.00	- 162,300,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		6,370.00		55,220.00	- 117,300,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		14,870.00		62,130.00	- 155,000,000.00	-	112,800,000.00	-	27,820,000.00
-	14,900.00		6,370.00		55,220.00	- 117,300,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		14,870.00		62,130.00	- 155,000,000.00	-	112,800,000.00	-	27,820,000.00
-	14,900.00		6,370.00		63,930.00	- 143,400,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		14,870.00		70,840.00	- 181,100,000.00	-	112,800,000.00	-	27,820,000.00
-	14,900.00		6,370.00		63,930.00	- 143,400,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		14,870.00		70,840.00	- 181,100,000.00	-	112,800,000.00	-	27,820,000.00
	0.00		10,620.00		63,920.00	- 136,500,000.00	-	2,228,000.00		354,700.00
	0.00		14,870.00		67,380.00	- 155,400,000.00	-	2,751,000.00		354,700.00
	0.00		14,870.00		67,380.00	- 155,400,000.00	-	2,751,000.00		354,700.00
-	14,210.00	-	4,249.00		60,460.00	- 54,420,000.00	-	104,200,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		60,460.00	- 54,420,000.00	-	104,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		67,380.00	- 92,110,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		10,620.00		63,920.00	- 136,500,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		10,620.00		63,920.00	- 136,500,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00		60,460.00	- 117,700,000.00	-	104,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		67,380.00	- 155,400,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		60,460.00	- 117,700,000.00	-	104,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		67,380.00	- 155,400,000.00	-	105,200,000.00	-	24,600,000.00
-	693.00		0.07		68,960.00	- 95,290,000.00	-	9,261,000.00	-	3,219,000.00
-	693.00	-	4,249.00		65,500.00	- 76,440,000.00	-	8,737,000.00	-	3,219,000.00
-	693.00		4,249.00		72,420.00	- 114,100,000.00	-	9,784,000.00	-	3,219,000.00
-	693.00		10,620.00		68,960.00	- 158,600,000.00	-	9,261,000.00	-	2,864,000.00
-	693.00		10,620.00		68,960.00	- 158,600,000.00	-	9,261,000.00	-	2,864,000.00
-	693.00		6,370.00		65,500.00	- 139,700,000.00	-	8,737,000.00	-	2,864,000.00
-	693.00		14,870.00		72,420.00	- 177,400,000.00	-	9,784,000.00	-	2,864,000.00
-	693.00		14,870.00		72,420.00	- 177,400,000.00	-	9,784,000.00	-	2,864,000.00
-	14,900.00		0.05		68,960.00	- 95,290,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		0.05		68,960.00	- 95,290,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		65,500.00	- 76,440,000.00	-	111,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		72,420.00	- 114,100,000.00	-	112,300,000.00	-	28,170,000.00
-	14,900.00		10,620.00		68,960.00	- 158,600,000.00	-	111,700,000.00	-	27,820,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 197 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,900.00		10,620.00		68,960.00	- 158,600,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		6,370.00		56,790.00	- 113,600,000.00	-	111,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		63,700.00	- 151,300,000.00	-	112,300,000.00	-	27,820,000.00
-	14,900.00		6,370.00		56,790.00	- 113,600,000.00	-	111,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		63,700.00	- 151,300,000.00	-	112,300,000.00	-	27,820,000.00
-	14,900.00		6,370.00		65,500.00	- 139,700,000.00	-	111,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		72,420.00	- 177,400,000.00	-	112,300,000.00	-	27,820,000.00
-	14,900.00		6,370.00		65,500.00	- 139,700,000.00	-	111,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		72,420.00	- 177,400,000.00	-	112,300,000.00	-	27,820,000.00
	0.00		6,370.00		65,120.00	- 124,500,000.00	-	2,199,000.00		354,700.00
	0.00		14,870.00		72,030.00	- 162,100,000.00	-	3,246,000.00		354,700.00
-	14,210.00		0.04		68,570.00	- 80,020,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		72,030.00	- 98,870,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00		10,620.00		68,570.00	- 143,300,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		10,620.00		68,570.00	- 143,300,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		65,120.00	- 124,500,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		14,870.00		72,030.00	- 162,100,000.00	-	105,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00		65,120.00	- 124,500,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		14,870.00		72,030.00	- 162,100,000.00	-	105,700,000.00	-	24,600,000.00
-	693.00		4,249.00		77,070.00	- 120,900,000.00	-	10,280,000.00	-	3,219,000.00
-	693.00	-	4,249.00		70,160.00	- 83,200,000.00	-	9,232,000.00	-	3,219,000.00
-	693.00		4,249.00		77,070.00	- 120,900,000.00	-	10,280,000.00	-	3,219,000.00
-	693.00		6,370.00		70,160.00	- 146,500,000.00	-	9,232,000.00	-	2,864,000.00
-	693.00		6,370.00		70,160.00	- 146,500,000.00	-	9,232,000.00	-	2,864,000.00
-	14,900.00	-	4,249.00		70,160.00	- 83,200,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		4,249.00		77,070.00	- 120,900,000.00	-	112,800,000.00	-	28,170,000.00
-	14,900.00		10,620.00		73,610.00	- 165,300,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		10,620.00		73,610.00	- 165,300,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		6,370.00		61,450.00	- 120,400,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		14,870.00		68,360.00	- 158,100,000.00	-	112,800,000.00	-	27,820,000.00
-	14,900.00		6,370.00		61,450.00	- 120,400,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		14,870.00		68,360.00	- 158,100,000.00	-	112,800,000.00	-	27,820,000.00
-	14,900.00		6,370.00		70,160.00	- 146,500,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		14,870.00		77,070.00	- 184,200,000.00	-	112,800,000.00	-	27,820,000.00
-	14,900.00		6,370.00		70,160.00	- 146,500,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		14,870.00		77,070.00	- 184,200,000.00	-	112,800,000.00	-	27,820,000.00
	0.00		0.05		57,690.00	- 70,210,000.00	-	2,228,000.00		32.35
	0.00		4,249.00		61,150.00	- 89,060,000.00	-	2,751,000.00		37.45
	0.00	-	11,540.00		57,690.00	282,400.00	-	2,228,000.00	-	354,600.00
	0.00	-	15,790.00		54,230.00	19,130,000.00	-	1,704,000.00	-	354,600.00
-	14,210.00		0.04		57,690.00	- 70,210,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		57,690.00	282,500.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00		57,690.00	282,500.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		54,230.00	19,130,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		61,150.00	- 18,570,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		54,230.00	19,130,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		61,150.00	- 18,570,000.00	-	105,200,000.00	-	25,310,000.00
-	693.00		0.06		62,730.00	- 92,240,000.00	-	9,261,000.00	-	3,219,000.00
-	693.00		0.06		62,730.00	- 92,240,000.00	-	9,261,000.00	-	3,219,000.00
-	693.00	-	4,249.00		59,270.00	- 73,390,000.00	-	8,737,000.00	-	3,219,000.00
-	693.00	-	15,790.00		59,270.00	- 2,895,000.00	-	8,737,000.00	-	3,574,000.00
-	693.00	-	15,790.00		59,270.00	- 2,895,000.00	-	8,737,000.00	-	3,574,000.00
-	693.00	-	7,292.00		66,190.00	- 40,590,000.00	-	9,784,000.00	-	3,574,000.00
-	14,900.00		0.05		62,730.00	- 92,240,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		4,249.00		66,190.00	- 111,100,000.00	-	112,300,000.00	-	28,170,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 198 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,900.00	-	4,249.00	59,270.00	-	73,390,000.00	-	111,200,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	62,730.00	-	21,740,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	62,730.00	-	21,740,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	50,560.00	-	23,200,000.00	-	111,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	57,470.00	-	14,500,000.00	-	112,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	50,560.00	-	23,200,000.00	-	111,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	57,470.00	-	14,500,000.00	-	112,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	59,270.00	-	2,895,000.00	-	111,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	66,190.00	-	40,590,000.00	-	112,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	59,270.00	-	2,895,000.00	-	111,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	66,190.00	-	40,590,000.00	-	112,300,000.00	-	28,530,000.00
	0.00		0.06	62,350.00	-	76,970,000.00	-	2,723,000.00		35.46
	0.00	-	11,540.00	62,350.00	-	6,472,000.00	-	2,723,000.00	-	354,600.00
	0.00	-	15,790.00	58,890.00	-	12,380,000.00	-	2,199,000.00	-	354,600.00
	0.00	-	7,292.00	65,800.00	-	25,320,000.00	-	3,246,000.00	-	354,600.00
-	14,210.00	-	4,249.00	58,890.00	-	58,120,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00	65,800.00	-	95,820,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00	62,350.00	-	6,472,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00	62,350.00	-	6,472,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	58,890.00	-	12,380,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	65,800.00	-	25,320,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	58,890.00	-	12,380,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	65,800.00	-	25,320,000.00	-	105,700,000.00	-	25,310,000.00
-	693.00		0.07	67,390.00	-	98,990,000.00	-	9,756,000.00	-	3,219,000.00
-	693.00		0.07	67,390.00	-	98,990,000.00	-	9,756,000.00	-	3,219,000.00
-	693.00	-	4,249.00	70,840.00	-	117,800,000.00	-	10,280,000.00	-	3,219,000.00
-	693.00	-	11,540.00	67,390.00	-	28,500,000.00	-	9,756,000.00	-	3,574,000.00
-	693.00	-	15,790.00	63,930.00	-	9,649,000.00	-	9,232,000.00	-	3,574,000.00
-	693.00	-	7,292.00	70,840.00	-	47,340,000.00	-	10,280,000.00	-	3,574,000.00
-	14,900.00		4,249.00	70,840.00	-	117,800,000.00	-	112,800,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	67,390.00	-	28,500,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	67,390.00	-	28,500,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	55,220.00	-	16,440,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	62,130.00	-	21,250,000.00	-	112,800,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	55,220.00	-	16,440,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	62,130.00	-	21,250,000.00	-	112,800,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	63,930.00	-	9,649,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	70,840.00	-	47,340,000.00	-	112,800,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	63,930.00	-	9,649,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	70,840.00	-	47,340,000.00	-	112,800,000.00	-	28,530,000.00
	0.00		0.05	63,920.00	-	73,260,000.00	-	2,228,000.00		33.91
	0.00	-	11,540.00	63,920.00	-	2,768,000.00	-	2,228,000.00	-	354,600.00
	0.00	-	7,292.00	67,380.00	-	21,620,000.00	-	2,751,000.00	-	354,600.00
	0.00	-	15,790.00	60,460.00	-	16,080,000.00	-	1,704,000.00	-	354,600.00
-	14,210.00		0.04	63,920.00	-	73,260,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		0.04	63,920.00	-	73,260,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00	67,380.00	-	92,110,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00	63,920.00	-	2,768,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00	63,920.00	-	2,768,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	60,460.00	-	16,080,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	67,380.00	-	21,620,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	60,460.00	-	16,080,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	67,380.00	-	21,620,000.00	-	105,200,000.00	-	25,310,000.00
-	693.00	-	11,540.00	68,960.00	-	24,790,000.00	-	9,261,000.00	-	3,574,000.00
-	693.00	-	15,790.00	65,500.00	-	5,945,000.00	-	8,737,000.00	-	3,574,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17    Lotto 10    Codifica Documento EI2CLOC000006    Rev. A    Foglio 199 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	693.00	-	15,790.00	65,500.00	-	5,945,000.00	-	8,737,000.00	-	3,574,000.00
-	14,900.00	-	4,249.00	65,500.00	-	76,440,000.00	-	111,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00	72,420.00	-	114,100,000.00	-	112,300,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	68,960.00	-	24,790,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	68,960.00	-	24,790,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	56,790.00	-	20,150,000.00	-	111,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	63,700.00	-	17,550,000.00	-	112,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	56,790.00	-	20,150,000.00	-	111,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	63,700.00	-	17,550,000.00	-	112,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	65,500.00	-	5,945,000.00	-	111,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	72,420.00	-	43,640,000.00	-	112,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	65,500.00	-	5,945,000.00	-	111,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	72,420.00	-	43,640,000.00	-	112,300,000.00	-	28,530,000.00
	0.00		0.06	68,570.00	-	80,020,000.00	-	2,723,000.00		36.87
	0.00		0.06	68,570.00	-	80,020,000.00	-	2,723,000.00		37.01
	0.00	-	4,249.00	65,120.00	-	61,170,000.00	-	2,199,000.00		31.76
	0.00		4,249.00	72,030.00	-	98,870,000.00	-	3,246,000.00		41.97
	0.00	-	11,540.00	68,570.00	-	9,522,000.00	-	2,723,000.00	-	354,600.00
	0.00	-	7,292.00	72,030.00	-	28,370,000.00	-	3,246,000.00	-	354,600.00
	0.00	-	15,790.00	65,120.00	-	9,325,000.00	-	2,199,000.00	-	354,600.00
	0.00	-	7,292.00	72,030.00	-	28,370,000.00	-	3,246,000.00	-	354,600.00
-	14,210.00		0.04	68,570.00	-	80,020,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00	65,120.00	-	61,170,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00	65,120.00	-	61,170,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00	72,030.00	-	98,870,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00	68,570.00	-	9,522,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00	68,570.00	-	9,522,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	65,120.00	-	9,325,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	72,030.00	-	28,370,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	65,120.00	-	9,325,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	72,030.00	-	28,370,000.00	-	105,700,000.00	-	25,310,000.00
-	693.00	-	11,540.00	73,610.00	-	31,550,000.00	-	9,756,000.00	-	3,574,000.00
-	693.00	-	7,292.00	77,070.00	-	50,400,000.00	-	10,280,000.00	-	3,574,000.00
-	693.00	-	15,790.00	70,160.00	-	12,700,000.00	-	9,232,000.00	-	3,574,000.00
-	693.00	-	7,292.00	77,070.00	-	50,400,000.00	-	10,280,000.00	-	3,574,000.00
-	14,900.00		0.06	73,610.00	-	102,000,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		0.06	73,610.00	-	102,000,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00	77,070.00	-	120,900,000.00	-	112,800,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	70,160.00	-	83,200,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	73,610.00	-	31,550,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	73,610.00	-	31,550,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	61,450.00	-	13,390,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	68,360.00	-	24,300,000.00	-	112,800,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	61,450.00	-	13,390,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	68,360.00	-	24,300,000.00	-	112,800,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	70,160.00	-	12,700,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	77,070.00	-	50,400,000.00	-	112,800,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	70,160.00	-	12,700,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	77,070.00	-	50,400,000.00	-	112,800,000.00	-	28,530,000.00
	0.00		10,620.00	48,980.00	-	107,400,000.00	-	2,228,000.00		354,700.00
	0.00		6,370.00	45,520.00	-	88,560,000.00	-	1,704,000.00		354,700.00
	0.00		14,870.00	52,430.00	-	126,300,000.00	-	2,751,000.00		354,700.00
14,210.00			0.05	48,980.00	-	44,120,000.00	100,200,000.00			24,950,000.00
14,210.00	-		4,249.00	45,520.00	-	25,270,000.00	100,800,000.00			24,950,000.00
14,210.00			10,620.00	48,980.00	-	107,400,000.00	100,200,000.00			25,310,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 200 di 215
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>						

Reazioni vincolari - EQU						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
14,210.00	6,370.00	45,520.00	- 88,560,000.00	100,800,000.00	25,310,000.00	
14,210.00	14,870.00	52,430.00	- 126,300,000.00	99,730,000.00	25,310,000.00	
- 693.00	0.05	54,020.00	- 66,150,000.00	- 9,261,000.00	- 3,219,000.00	
- 693.00	10,620.00	54,020.00	- 129,400,000.00	- 9,261,000.00	- 2,864,000.00	
- 693.00	6,370.00	50,560.00	- 110,600,000.00	- 8,737,000.00	- 2,864,000.00	
- 693.00	14,870.00	57,470.00	- 148,300,000.00	- 9,784,000.00	- 2,864,000.00	
13,510.00	4,249.00	57,470.00	- 84,990,000.00	92,690,000.00	21,740,000.00	
13,510.00	10,620.00	54,020.00	- 129,400,000.00	93,220,000.00	22,090,000.00	
13,510.00	6,370.00	50,560.00	- 110,600,000.00	93,740,000.00	22,090,000.00	
13,510.00	14,870.00	57,470.00	- 148,300,000.00	92,690,000.00	22,090,000.00	
0.00	4,249.00	57,090.00	- 69,720,000.00	- 3,246,000.00	28.27	
14,210.00	- 4,249.00	50,180.00	- 32,030,000.00	100,300,000.00	24,950,000.00	
14,210.00	10,620.00	53,630.00	- 114,200,000.00	99,750,000.00	25,310,000.00	
14,210.00	6,370.00	50,180.00	- 95,310,000.00	100,300,000.00	25,310,000.00	
14,210.00	14,870.00	57,090.00	- 133,000,000.00	99,230,000.00	25,310,000.00	
- 693.00	0.05	58,670.00	- 72,900,000.00	- 9,756,000.00	- 3,219,000.00	
- 693.00	4,249.00	62,130.00	- 91,750,000.00	- 10,280,000.00	- 3,219,000.00	
- 693.00	6,370.00	55,220.00	- 117,300,000.00	- 9,232,000.00	- 2,864,000.00	
13,510.00	0.06	58,670.00	- 72,900,000.00	92,720,000.00	21,740,000.00	
13,510.00	- 4,249.00	55,220.00	- 54,050,000.00	93,240,000.00	21,740,000.00	
13,510.00	10,620.00	58,670.00	- 136,200,000.00	92,720,000.00	22,090,000.00	
13,510.00	6,370.00	55,220.00	- 117,300,000.00	93,240,000.00	22,090,000.00	
13,510.00	14,870.00	62,130.00	- 155,000,000.00	92,200,000.00	22,090,000.00	
0.00	0.03	55,210.00	- 47,170,000.00	- 2,228,000.00	21.47	
0.00	4,249.00	58,660.00	- 66,020,000.00	- 2,751,000.00	26.58	
0.00	10,620.00	55,210.00	- 110,500,000.00	- 2,228,000.00	354,700.00	
0.00	6,370.00	51,750.00	- 91,610,000.00	- 1,704,000.00	354,700.00	
14,210.00	- 4,249.00	51,750.00	- 28,320,000.00	100,800,000.00	24,950,000.00	
14,210.00	4,249.00	58,660.00	- 66,020,000.00	99,730,000.00	24,950,000.00	
14,210.00	10,620.00	55,210.00	- 110,500,000.00	100,200,000.00	25,310,000.00	
14,210.00	6,370.00	51,750.00	- 91,610,000.00	100,800,000.00	25,310,000.00	
14,210.00	14,870.00	58,660.00	- 129,300,000.00	99,730,000.00	25,310,000.00	
- 693.00	10,620.00	60,250.00	- 132,500,000.00	- 9,261,000.00	- 2,864,000.00	
- 693.00	6,370.00	56,790.00	- 113,600,000.00	- 8,737,000.00	- 2,864,000.00	
- 693.00	14,870.00	63,700.00	- 151,300,000.00	- 9,784,000.00	- 2,864,000.00	
13,510.00	0.06	60,250.00	- 69,200,000.00	93,220,000.00	21,740,000.00	
13,510.00	- 4,249.00	56,790.00	- 50,350,000.00	93,740,000.00	21,740,000.00	
13,510.00	10,620.00	60,250.00	- 132,500,000.00	93,220,000.00	22,090,000.00	
13,510.00	6,370.00	56,790.00	- 113,600,000.00	93,740,000.00	22,090,000.00	
13,510.00	14,870.00	63,700.00	- 151,300,000.00	92,690,000.00	22,090,000.00	
0.00	0.04	59,860.00	- 53,930,000.00	- 2,723,000.00	24.58	
0.00	14,870.00	63,320.00	- 136,100,000.00	- 3,246,000.00	354,700.00	
14,210.00	0.05	59,860.00	- 53,930,000.00	99,750,000.00	24,950,000.00	
14,210.00	- 4,249.00	56,410.00	- 35,080,000.00	100,300,000.00	24,950,000.00	
14,210.00	4,249.00	63,320.00	- 72,770,000.00	99,230,000.00	24,950,000.00	
14,210.00	10,620.00	59,860.00	- 117,200,000.00	99,750,000.00	25,310,000.00	
14,210.00	6,370.00	56,410.00	- 98,360,000.00	100,300,000.00	25,310,000.00	
14,210.00	14,870.00	63,320.00	- 136,100,000.00	99,230,000.00	25,310,000.00	
13,510.00	0.07	64,900.00	- 75,950,000.00	92,720,000.00	21,740,000.00	
13,510.00	- 4,249.00	61,450.00	- 57,100,000.00	93,240,000.00	21,740,000.00	
13,510.00	4,249.00	68,360.00	- 94,800,000.00	92,200,000.00	21,740,000.00	
13,510.00	10,620.00	64,900.00	- 139,200,000.00	92,720,000.00	22,090,000.00	
13,510.00	6,370.00	61,450.00	- 120,400,000.00	93,240,000.00	22,090,000.00	
13,510.00	14,870.00	68,360.00	- 158,100,000.00	92,200,000.00	22,090,000.00	
0.00	- 4,249.00	45,520.00	- 25,270,000.00	- 1,704,000.00	14.96	



<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17    Lotto 10    Codifica Documento EI2CLOC000006    Rev. A    Foglio 201 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
0.00	-	11,540.00		48,980.00	26,380,000.00	-	2,228,000.00	-	354,600.00	
0.00	-	15,790.00		45,520.00	45,220,000.00	-	1,704,000.00	-	354,600.00	
0.00	-	7,292.00		52,430.00	7,527,000.00	-	2,751,000.00	-	354,600.00	
14,210.00		4,249.00		52,430.00	- 62,970,000.00	99,730,000.00			24,950,000.00	
14,210.00	-	11,540.00		48,980.00	26,370,000.00	100,200,000.00			24,600,000.00	
14,210.00	-	15,790.00		45,520.00	45,220,000.00	100,800,000.00			24,600,000.00	
14,210.00	-	7,292.00		52,430.00	7,527,000.00	99,730,000.00			24,600,000.00	
- 693.00		4,249.00		57,470.00	- 84,990,000.00	- 9,784,000.00			- 3,219,000.00	
- 693.00	-	15,790.00		50,560.00	23,200,000.00	- 8,737,000.00			- 3,574,000.00	
- 693.00	-	7,292.00		57,470.00	- 14,500,000.00	- 9,784,000.00			- 3,574,000.00	
13,510.00		0.06		54,020.00	- 66,150,000.00	93,220,000.00			21,740,000.00	
13,510.00	-	4,249.00		50,560.00	- 47,300,000.00	93,740,000.00			21,740,000.00	
13,510.00	-	11,540.00		54,020.00	4,350,000.00	93,220,000.00			21,380,000.00	
13,510.00	-	15,790.00		50,560.00	23,200,000.00	93,740,000.00			21,380,000.00	
13,510.00	-	7,292.00		57,470.00	- 14,500,000.00	92,690,000.00			21,380,000.00	
0.00	-	11,540.00		53,630.00	19,620,000.00	- 2,723,000.00			- 354,600.00	
0.00	-	7,292.00		57,090.00	772,800.00	- 3,246,000.00			- 354,600.00	
14,210.00		0.05		53,630.00	- 50,880,000.00	99,750,000.00			24,950,000.00	
14,210.00		4,249.00		57,090.00	- 69,720,000.00	99,230,000.00			24,950,000.00	
14,210.00	-	11,540.00		53,630.00	19,620,000.00	99,750,000.00			24,600,000.00	
14,210.00	-	15,790.00		50,180.00	38,470,000.00	100,300,000.00			24,600,000.00	
14,210.00	-	7,292.00		57,090.00	772,700.00	99,230,000.00			24,600,000.00	
- 693.00	-	11,540.00		58,670.00	- 2,404,000.00	- 9,756,000.00			- 3,574,000.00	
- 693.00	-	15,790.00		55,220.00	16,440,000.00	- 9,232,000.00			- 3,574,000.00	
- 693.00	-	7,292.00		62,130.00	- 21,250,000.00	- 10,280,000.00			- 3,574,000.00	
13,510.00		4,249.00		62,130.00	- 91,750,000.00	92,200,000.00			21,740,000.00	
13,510.00	-	11,540.00		58,670.00	- 2,404,000.00	92,720,000.00			21,380,000.00	
13,510.00	-	15,790.00		55,220.00	16,440,000.00	93,240,000.00			21,380,000.00	
13,510.00	-	7,292.00		62,130.00	- 21,250,000.00	92,200,000.00			21,380,000.00	
0.00	-	11,540.00		55,210.00	23,320,000.00	- 2,228,000.00			- 354,600.00	
0.00	-	7,292.00		58,660.00	4,477,000.00	- 2,751,000.00			- 354,600.00	
14,210.00		0.05		55,210.00	- 47,170,000.00	100,200,000.00			24,950,000.00	
14,210.00	-	11,540.00		55,210.00	23,320,000.00	100,200,000.00			24,600,000.00	
14,210.00	-	15,790.00		51,750.00	42,170,000.00	100,800,000.00			24,600,000.00	
14,210.00	-	7,292.00		58,660.00	4,477,000.00	99,730,000.00			24,600,000.00	
13,510.00		4,249.00		63,700.00	- 88,050,000.00	92,690,000.00			21,740,000.00	
13,510.00	-	11,540.00		60,250.00	1,300,000.00	93,220,000.00			21,380,000.00	
13,510.00	-	15,790.00		56,790.00	20,150,000.00	93,740,000.00			21,380,000.00	
13,510.00	-	7,292.00		63,700.00	- 17,550,000.00	92,690,000.00			21,380,000.00	
0.00		4,249.00		63,320.00	- 72,770,000.00	- 3,246,000.00			29.68	
0.00	-	11,540.00		59,860.00	16,570,000.00	- 2,723,000.00			- 354,600.00	
0.00	-	15,790.00		56,410.00	35,420,000.00	- 2,199,000.00			- 354,600.00	
14,210.00	-	11,540.00		59,860.00	16,570,000.00	99,750,000.00			24,600,000.00	
14,210.00	-	15,790.00		56,410.00	35,420,000.00	100,300,000.00			24,600,000.00	
14,210.00	-	7,292.00		63,320.00	- 2,278,000.00	99,230,000.00			24,600,000.00	
- 693.00	-	11,540.00		64,900.00	- 5,455,000.00	- 9,756,000.00			- 3,574,000.00	
- 693.00	-	15,790.00		61,450.00	13,390,000.00	- 9,232,000.00			- 3,574,000.00	
- 693.00	-	7,292.00		68,360.00	- 24,300,000.00	- 10,280,000.00			- 3,574,000.00	
13,510.00	-	11,540.00		64,900.00	- 5,455,000.00	92,720,000.00			21,380,000.00	
13,510.00	-	15,790.00		61,450.00	13,390,000.00	93,240,000.00			21,380,000.00	
13,510.00	-	7,292.00		68,360.00	- 24,300,000.00	92,200,000.00			21,380,000.00	
- 14,210.00		0.02		48,980.00	- 44,120,000.00	- 104,700,000.00			- 24,950,000.00	
- 14,210.00	-	4,249.00		45,520.00	- 25,270,000.00	- 104,200,000.00			- 24,950,000.00	
- 14,210.00		4,249.00		52,430.00	- 62,970,000.00	- 105,200,000.00			- 24,950,000.00	
- 14,210.00		10,620.00		48,980.00	- 107,400,000.00	- 104,700,000.00			- 24,600,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 202 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,210.00		6,370.00		45,520.00	- 88,560,000.00	-	104,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		52,430.00	- 126,300,000.00	-	105,200,000.00	-	24,600,000.00
-	14,900.00	-	4,249.00		50,560.00	- 47,300,000.00	-	111,200,000.00	-	28,170,000.00
-	14,900.00		10,620.00		54,020.00	- 129,400,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		6,370.00		50,560.00	- 110,600,000.00	-	111,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		57,470.00	- 148,300,000.00	-	112,300,000.00	-	27,820,000.00
	0.00		0.04		53,630.00	- 50,880,000.00	-	2,723,000.00		23.17
	0.00	-	4,249.00		50,180.00	- 32,030,000.00	-	2,199,000.00		18.07
	0.00		10,620.00		53,630.00	- 114,200,000.00	-	2,723,000.00		354,700.00
	0.00		6,370.00		50,180.00	- 95,310,000.00	-	2,199,000.00		354,700.00
	0.00		14,870.00		57,090.00	- 133,000,000.00	-	3,246,000.00		354,700.00
-	14,210.00	-	4,249.00		50,180.00	- 32,030,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00		57,090.00	- 69,720,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00		10,620.00		53,630.00	- 114,200,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		50,180.00	- 95,310,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		14,870.00		57,090.00	- 133,000,000.00	-	105,700,000.00	-	24,600,000.00
-	693.00	-	4,249.00		55,220.00	- 54,050,000.00	-	9,232,000.00	-	3,219,000.00
-	693.00		10,620.00		58,670.00	- 136,200,000.00	-	9,756,000.00	-	2,864,000.00
-	693.00		14,870.00		62,130.00	- 155,000,000.00	-	10,280,000.00	-	2,864,000.00
-	14,900.00	-	4,249.00		55,220.00	- 54,050,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		4,249.00		62,130.00	- 91,750,000.00	-	112,800,000.00	-	28,170,000.00
-	14,900.00		10,620.00		58,670.00	- 136,200,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		6,370.00		55,220.00	- 117,300,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		14,870.00		62,130.00	- 155,000,000.00	-	112,800,000.00	-	27,820,000.00
	0.00		14,870.00		58,660.00	- 129,300,000.00	-	2,751,000.00		354,700.00
-	14,210.00	-	4,249.00		51,750.00	- 28,320,000.00	-	104,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		58,660.00	- 66,020,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		10,620.00		55,210.00	- 110,500,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00		51,750.00	- 91,610,000.00	-	104,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		58,660.00	- 129,300,000.00	-	105,200,000.00	-	24,600,000.00
-	693.00	-	4,249.00		56,790.00	- 50,350,000.00	-	8,737,000.00	-	3,219,000.00
-	693.00		4,249.00		63,700.00	- 88,050,000.00	-	9,784,000.00	-	3,219,000.00
-	14,900.00		0.03		60,250.00	- 69,200,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		56,790.00	- 50,350,000.00	-	111,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		63,700.00	- 88,040,000.00	-	112,300,000.00	-	28,170,000.00
-	14,900.00		10,620.00		60,250.00	- 132,500,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		6,370.00		56,790.00	- 113,600,000.00	-	111,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		63,700.00	- 151,300,000.00	-	112,300,000.00	-	27,820,000.00
	0.00		10,620.00		59,860.00	- 117,200,000.00	-	2,723,000.00		354,700.00
	0.00		6,370.00		56,410.00	- 98,360,000.00	-	2,199,000.00		354,700.00
-	14,210.00		0.03		59,860.00	- 53,930,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		10,620.00		59,860.00	- 117,200,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		56,410.00	- 98,360,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		14,870.00		63,320.00	- 136,100,000.00	-	105,700,000.00	-	24,600,000.00
-	693.00	-	4,249.00		61,450.00	- 57,100,000.00	-	9,232,000.00	-	3,219,000.00
-	693.00		4,249.00		68,360.00	- 94,800,000.00	-	10,280,000.00	-	3,219,000.00
-	693.00		10,620.00		64,900.00	- 139,200,000.00	-	9,756,000.00	-	2,864,000.00
-	693.00		6,370.00		61,450.00	- 120,400,000.00	-	9,232,000.00	-	2,864,000.00
-	693.00		14,870.00		68,360.00	- 158,100,000.00	-	10,280,000.00	-	2,864,000.00
-	14,900.00		10,620.00		64,900.00	- 139,200,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		6,370.00		61,450.00	- 120,400,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		14,870.00		68,360.00	- 158,100,000.00	-	112,800,000.00	-	27,820,000.00
	0.00		0.03		48,980.00	- 44,120,000.00	-	2,228,000.00		20.07
	0.00		4,249.00		52,430.00	- 62,970,000.00	-	2,751,000.00		25.17
-	14,210.00	-	11,540.00		48,980.00	- 26,380,000.00	-	104,700,000.00	-	25,310,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE	<b>Progetto</b> IN17	<b>Lotto</b> 10	<b>Codifica Documento</b> EI2CLOC000006	<b>Rev.</b> A	<b>Foglio</b> 203 di 215
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>						

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,210.00	-	15,790.00		45,520.00	45,220,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		52,430.00	7,527,000.00	-	105,200,000.00	-	25,310,000.00
-	693.00	-	4,249.00		50,560.00	- 47,300,000.00	-	8,737,000.00	-	3,219,000.00
-	693.00	-	11,540.00		54,020.00	4,350,000.00	-	9,261,000.00	-	3,574,000.00
-	14,900.00		0.03		54,020.00	- 66,150,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		4,249.00		57,470.00	- 84,990,000.00	-	112,300,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00		54,020.00	4,350,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		50,560.00	23,200,000.00	-	111,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		57,470.00	- 14,500,000.00	-	112,300,000.00	-	28,530,000.00
	0.00	-	15,790.00		50,180.00	38,470,000.00	-	2,199,000.00	-	354,600.00
-	14,210.00		0.02		53,630.00	- 50,880,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		53,630.00	19,620,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		50,180.00	38,470,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		57,090.00	772,900.00	-	105,700,000.00	-	25,310,000.00
-	14,900.00		0.04		58,670.00	- 72,900,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00		58,670.00	- 2,404,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		55,220.00	16,440,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		62,130.00	- 21,250,000.00	-	112,800,000.00	-	28,530,000.00
	0.00	-	4,249.00		51,750.00	- 28,320,000.00	-	1,704,000.00		16.37
	0.00	-	15,790.00		51,750.00	42,170,000.00	-	1,704,000.00	-	354,600.00
-	14,210.00		0.02		55,210.00	- 47,170,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		55,210.00	23,320,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		51,750.00	42,170,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		58,660.00	4,477,000.00	-	105,200,000.00	-	25,310,000.00
-	693.00		0.05		60,250.00	- 69,200,000.00	-	9,261,000.00	-	3,219,000.00
-	693.00	-	11,540.00		60,250.00	1,300,000.00	-	9,261,000.00	-	3,574,000.00
-	693.00	-	15,790.00		56,790.00	20,150,000.00	-	8,737,000.00	-	3,574,000.00
-	693.00	-	7,292.00		63,700.00	- 17,550,000.00	-	9,784,000.00	-	3,574,000.00
-	14,900.00	-	11,540.00		60,250.00	1,300,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		56,790.00	20,150,000.00	-	111,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		63,700.00	- 17,550,000.00	-	112,300,000.00	-	28,530,000.00
	0.00	-	4,249.00		56,410.00	- 35,080,000.00	-	2,199,000.00		19.48
	0.00	-	7,292.00		63,320.00	- 2,278,000.00	-	3,246,000.00	-	354,600.00
-	14,210.00	-	4,249.00		56,410.00	- 35,080,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00		63,320.00	- 72,770,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		59,860.00	16,570,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		56,410.00	35,420,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		63,320.00	- 2,278,000.00	-	105,700,000.00	-	25,310,000.00
-	693.00		0.05		64,900.00	- 75,950,000.00	-	9,756,000.00	-	3,219,000.00
-	14,900.00		0.04		64,900.00	- 75,950,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		61,450.00	- 57,100,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		4,249.00		68,360.00	- 94,800,000.00	-	112,800,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00		64,900.00	- 5,455,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		61,450.00	13,390,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		68,360.00	- 24,300,000.00	-	112,800,000.00	-	28,530,000.00
	0.00		10,620.00		48,980.00	- 107,400,000.00	-	2,228,000.00		354,700.00
	0.00		6,370.00		49,880.00	- 101,600,000.00	-	1,704,000.00		354,700.00
	14,210.00		0.04		48,980.00	- 44,120,000.00		100,200,000.00		24,950,000.00
	14,210.00	-	4,249.00		45,520.00	- 25,270,000.00		100,800,000.00		24,950,000.00
	14,210.00		4,249.00		56,790.00	- 76,020,000.00		99,730,000.00		24,950,000.00
	14,210.00		10,620.00		48,980.00	- 107,400,000.00		100,200,000.00		25,310,000.00
	14,210.00		10,620.00		53,330.00	- 120,400,000.00		100,200,000.00		25,310,000.00
	14,210.00		6,370.00		45,520.00	- 88,560,000.00		100,800,000.00		25,310,000.00
	14,210.00		14,870.00		52,430.00	- 126,300,000.00		99,730,000.00		25,310,000.00
	14,210.00		6,370.00		49,880.00	- 101,600,000.00		100,800,000.00		25,310,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 204 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
	14,210.00		14,870.00		56,790.00	- 139,300,000.00		99,730,000.00		25,310,000.00
-	693.00		0.05		54,020.00	- 66,150,000.00	-	9,261,000.00	-	3,219,000.00
-	693.00		0.06		58,370.00	- 79,190,000.00	-	9,261,000.00	-	3,219,000.00
-	693.00	-	4,249.00		50,560.00	- 47,300,000.00	-	8,737,000.00	-	3,219,000.00
-	693.00		4,249.00		57,470.00	- 84,990,000.00	-	9,784,000.00	-	3,219,000.00
-	693.00		10,620.00		54,020.00	- 129,400,000.00	-	9,261,000.00	-	2,864,000.00
-	693.00		10,620.00		58,370.00	- 142,500,000.00	-	9,261,000.00	-	2,864,000.00
-	693.00		14,870.00		57,470.00	- 148,300,000.00	-	9,784,000.00	-	2,864,000.00
-	693.00		6,370.00		54,920.00	- 123,600,000.00	-	8,737,000.00	-	2,864,000.00
-	693.00		14,870.00		61,830.00	- 161,300,000.00	-	9,784,000.00	-	2,864,000.00
	13,510.00		0.06		54,020.00	- 66,150,000.00		93,220,000.00		21,740,000.00
	13,510.00	-	4,249.00		50,560.00	- 47,300,000.00		93,740,000.00		21,740,000.00
	13,510.00		4,249.00		57,470.00	- 84,990,000.00		92,690,000.00		21,740,000.00
	13,510.00		10,620.00		54,020.00	- 129,400,000.00		93,220,000.00		22,090,000.00
	13,510.00		10,620.00		58,370.00	- 142,500,000.00		93,220,000.00		22,090,000.00
	13,510.00		6,370.00		50,560.00	- 110,600,000.00		93,740,000.00		22,090,000.00
	13,510.00		14,870.00		57,470.00	- 148,300,000.00		92,690,000.00		22,090,000.00
	13,510.00		6,370.00		54,920.00	- 123,600,000.00		93,740,000.00		22,090,000.00
	13,510.00		14,870.00		61,830.00	- 161,300,000.00		92,690,000.00		22,090,000.00
	13,510.00		6,370.00		54,920.00	- 123,600,000.00		93,740,000.00		22,090,000.00
	13,510.00		14,870.00		61,830.00	- 161,300,000.00		92,690,000.00		22,090,000.00
	0.00	-	4,249.00		50,180.00	- 32,030,000.00	-	2,199,000.00		18.56
	0.00		4,249.00		61,450.00	- 82,770,000.00	-	3,246,000.00		34.78
	0.00		10,620.00		57,990.00	- 127,200,000.00	-	2,723,000.00		354,700.00
	14,210.00		0.05		53,630.00	- 50,880,000.00		99,750,000.00		24,950,000.00
	14,210.00	-	4,249.00		50,180.00	- 32,030,000.00		100,300,000.00		24,950,000.00
	14,210.00	-	4,249.00		54,530.00	- 45,070,000.00		100,300,000.00		24,950,000.00
	14,210.00		4,249.00		61,450.00	- 82,770,000.00		99,230,000.00		24,950,000.00
	14,210.00		10,620.00		53,630.00	- 114,200,000.00		99,750,000.00		25,310,000.00
	14,210.00		10,620.00		57,990.00	- 127,200,000.00		99,750,000.00		25,310,000.00
	14,210.00		6,370.00		50,180.00	- 95,310,000.00		100,300,000.00		25,310,000.00
	14,210.00		14,870.00		57,090.00	- 133,000,000.00		99,230,000.00		25,310,000.00
	14,210.00		6,370.00		54,530.00	- 108,400,000.00		100,300,000.00		25,310,000.00
	14,210.00		14,870.00		61,450.00	- 146,100,000.00		99,230,000.00		25,310,000.00
-	693.00	-	4,249.00		55,220.00	- 54,050,000.00	-	9,232,000.00	-	3,219,000.00
-	693.00		10,620.00		58,670.00	- 136,200,000.00	-	9,756,000.00	-	2,864,000.00
-	693.00		10,620.00		63,030.00	- 149,200,000.00	-	9,756,000.00	-	2,864,000.00
-	693.00		14,870.00		62,130.00	- 155,000,000.00	-	10,280,000.00	-	2,864,000.00
-	693.00		6,370.00		59,570.00	- 130,400,000.00	-	9,232,000.00	-	2,864,000.00
-	693.00		14,870.00		66,490.00	- 168,100,000.00	-	10,280,000.00	-	2,864,000.00
	13,510.00		0.06		58,670.00	- 72,900,000.00		92,720,000.00		21,740,000.00
	13,510.00	-	4,249.00		55,220.00	- 54,050,000.00		93,240,000.00		21,740,000.00
	13,510.00		10,620.00		58,670.00	- 136,200,000.00		92,720,000.00		22,090,000.00
	13,510.00		10,620.00		63,030.00	- 149,200,000.00		92,720,000.00		22,090,000.00
	13,510.00		6,370.00		55,220.00	- 117,300,000.00		93,240,000.00		22,090,000.00
	13,510.00		14,870.00		62,130.00	- 155,000,000.00		92,200,000.00		22,090,000.00
	13,510.00		6,370.00		59,570.00	- 130,400,000.00		93,240,000.00		22,090,000.00
	13,510.00		14,870.00		66,490.00	- 168,100,000.00		92,200,000.00		22,090,000.00
	13,510.00		6,370.00		59,570.00	- 130,400,000.00		93,240,000.00		22,090,000.00
	13,510.00		14,870.00		66,490.00	- 168,100,000.00		92,200,000.00		22,090,000.00
	0.00		10,620.00		59,560.00	- 123,500,000.00	-	2,228,000.00		354,700.00
	0.00		6,370.00		51,750.00	- 91,610,000.00	-	1,704,000.00		354,700.00
	0.00		14,870.00		58,660.00	- 129,300,000.00	-	2,751,000.00		354,700.00
	0.00		6,370.00		56,110.00	- 104,700,000.00	-	1,704,000.00		354,700.00
	14,210.00		0.05		55,210.00	- 47,170,000.00		100,200,000.00		24,950,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 205 di 215

Reazioni vincolari - EQU						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
14,210.00	0.06	59,560.00	- 60,220,000.00	100,200,000.00	24,950,000.00	
14,210.00	- 4,249.00	51,750.00	- 28,320,000.00	100,800,000.00	24,950,000.00	
14,210.00	4,249.00	58,660.00	- 66,020,000.00	99,730,000.00	24,950,000.00	
14,210.00	4,249.00	63,020.00	- 79,070,000.00	99,730,000.00	24,950,000.00	
14,210.00	10,620.00	55,210.00	- 110,500,000.00	100,200,000.00	25,310,000.00	
14,210.00	10,620.00	59,560.00	- 123,500,000.00	100,200,000.00	25,310,000.00	
14,210.00	6,370.00	51,750.00	- 91,610,000.00	100,800,000.00	25,310,000.00	
14,210.00	14,870.00	58,660.00	- 129,300,000.00	99,730,000.00	25,310,000.00	
14,210.00	6,370.00	56,110.00	- 104,700,000.00	100,800,000.00	25,310,000.00	
14,210.00	14,870.00	63,020.00	- 142,300,000.00	99,730,000.00	25,310,000.00	
- 693.00	0.06	64,600.00	- 82,240,000.00	- 9,261,000.00	- 3,219,000.00	
- 693.00	4,249.00	63,700.00	- 88,050,000.00	- 9,784,000.00	- 3,219,000.00	
- 693.00	- 4,249.00	61,150.00	- 63,400,000.00	- 8,737,000.00	- 3,219,000.00	
- 693.00	6,370.00	56,790.00	- 113,600,000.00	- 8,737,000.00	- 2,864,000.00	
- 693.00	14,870.00	63,700.00	- 151,300,000.00	- 9,784,000.00	- 2,864,000.00	
- 693.00	6,370.00	61,150.00	- 126,700,000.00	- 8,737,000.00	- 2,864,000.00	
13,510.00	0.06	60,250.00	- 69,200,000.00	93,220,000.00	21,740,000.00	
13,510.00	- 4,249.00	56,790.00	- 50,350,000.00	93,740,000.00	21,740,000.00	
13,510.00	4,249.00	63,700.00	- 88,050,000.00	92,690,000.00	21,740,000.00	
13,510.00	- 4,249.00	61,150.00	- 63,400,000.00	93,740,000.00	21,740,000.00	
13,510.00	4,249.00	68,060.00	- 101,100,000.00	92,690,000.00	21,740,000.00	
13,510.00	10,620.00	60,250.00	- 132,500,000.00	93,220,000.00	22,090,000.00	
13,510.00	10,620.00	64,600.00	- 145,500,000.00	93,220,000.00	22,090,000.00	
13,510.00	6,370.00	56,790.00	- 113,600,000.00	93,740,000.00	22,090,000.00	
13,510.00	14,870.00	63,700.00	- 151,300,000.00	92,690,000.00	22,090,000.00	
13,510.00	6,370.00	61,150.00	- 126,700,000.00	93,740,000.00	22,090,000.00	
13,510.00	14,870.00	68,060.00	- 164,400,000.00	92,690,000.00	22,090,000.00	
13,510.00	6,370.00	61,150.00	- 126,700,000.00	93,740,000.00	22,090,000.00	
13,510.00	14,870.00	68,060.00	- 164,400,000.00	92,690,000.00	22,090,000.00	
0.00	10,620.00	59,860.00	- 117,200,000.00	- 2,723,000.00	354,700.00	
0.00	10,620.00	64,220.00	- 130,300,000.00	- 2,723,000.00	354,700.00	
0.00	6,370.00	56,410.00	- 98,360,000.00	- 2,199,000.00	354,700.00	
0.00	14,870.00	63,320.00	- 136,100,000.00	- 3,246,000.00	354,700.00	
14,210.00	0.05	59,860.00	- 53,930,000.00	99,750,000.00	24,950,000.00	
14,210.00	- 4,249.00	60,760.00	- 48,130,000.00	100,300,000.00	24,950,000.00	
14,210.00	4,249.00	67,670.00	- 85,820,000.00	99,230,000.00	24,950,000.00	
14,210.00	10,620.00	59,860.00	- 117,200,000.00	99,750,000.00	25,310,000.00	
14,210.00	10,620.00	64,220.00	- 130,300,000.00	99,750,000.00	25,310,000.00	
14,210.00	6,370.00	56,410.00	- 98,360,000.00	100,300,000.00	25,310,000.00	
14,210.00	14,870.00	63,320.00	- 136,100,000.00	99,230,000.00	25,310,000.00	
14,210.00	6,370.00	60,760.00	- 111,400,000.00	100,300,000.00	25,310,000.00	
14,210.00	14,870.00	67,670.00	- 149,100,000.00	99,230,000.00	25,310,000.00	
- 693.00	- 4,249.00	65,800.00	- 70,150,000.00	- 9,232,000.00	- 3,219,000.00	
- 693.00	10,620.00	69,260.00	- 152,300,000.00	- 9,756,000.00	- 2,864,000.00	
- 693.00	6,370.00	61,450.00	- 120,400,000.00	- 9,232,000.00	- 2,864,000.00	
- 693.00	14,870.00	68,360.00	- 158,100,000.00	- 10,280,000.00	- 2,864,000.00	
- 693.00	14,870.00	72,710.00	- 171,100,000.00	- 10,280,000.00	- 2,864,000.00	
13,510.00	4,249.00	68,360.00	- 94,800,000.00	92,200,000.00	21,740,000.00	
13,510.00	10,620.00	64,900.00	- 139,200,000.00	92,720,000.00	22,090,000.00	
13,510.00	10,620.00	69,260.00	- 152,300,000.00	92,720,000.00	22,090,000.00	
13,510.00	6,370.00	61,450.00	- 120,400,000.00	93,240,000.00	22,090,000.00	
13,510.00	14,870.00	68,360.00	- 158,100,000.00	92,200,000.00	22,090,000.00	
13,510.00	6,370.00	65,800.00	- 133,400,000.00	93,240,000.00	22,090,000.00	
13,510.00	14,870.00	72,710.00	- 171,100,000.00	92,200,000.00	22,090,000.00	
13,510.00	6,370.00	65,800.00	- 133,400,000.00	93,240,000.00	22,090,000.00	

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 206 di 215

Reazioni vincolari - EQU						
Rx	Ry	N	Mx	My	Mz	
N	N	N	Nmm	Nmm	Nmm	
13,510.00	14,870.00	72,710.00	- 171,100,000.00	92,200,000.00	22,090,000.00	
0.00	0.04	53,330.00	- 57,170,000.00	- 2,228,000.00	26.58	
0.00	- 7,292.00	52,430.00	7,527,000.00	- 2,751,000.00	- 354,600.00	
0.00	- 15,790.00	49,880.00	32,180,000.00	- 1,704,000.00	- 354,600.00	
0.00	- 7,292.00	56,790.00	- 5,519,000.00	- 2,751,000.00	- 354,600.00	
14,210.00	0.05	53,330.00	- 57,170,000.00	100,200,000.00	24,950,000.00	
14,210.00	4,249.00	52,430.00	- 62,970,000.00	99,730,000.00	24,950,000.00	
14,210.00	- 4,249.00	49,880.00	- 38,320,000.00	100,800,000.00	24,950,000.00	
14,210.00	- 11,540.00	48,980.00	26,370,000.00	100,200,000.00	24,600,000.00	
14,210.00	- 11,540.00	53,330.00	13,330,000.00	100,200,000.00	24,600,000.00	
14,210.00	- 15,790.00	45,520.00	45,220,000.00	100,800,000.00	24,600,000.00	
14,210.00	- 7,292.00	52,430.00	7,527,000.00	99,730,000.00	24,600,000.00	
14,210.00	- 15,790.00	49,880.00	32,180,000.00	100,800,000.00	24,600,000.00	
14,210.00	- 7,292.00	56,790.00	- 5,519,000.00	99,730,000.00	24,600,000.00	
- 693.00	- 11,540.00	58,370.00	- 8,696,000.00	- 9,261,000.00	- 3,574,000.00	
- 693.00	- 15,790.00	54,920.00	10,150,000.00	- 8,737,000.00	- 3,574,000.00	
- 693.00	- 7,292.00	61,830.00	- 27,540,000.00	- 9,784,000.00	- 3,574,000.00	
13,510.00	0.07	58,370.00	- 79,190,000.00	93,220,000.00	21,740,000.00	
13,510.00	- 4,249.00	54,920.00	- 60,350,000.00	93,740,000.00	21,740,000.00	
13,510.00	4,249.00	61,830.00	- 98,040,000.00	92,690,000.00	21,740,000.00	
13,510.00	- 11,540.00	54,020.00	4,350,000.00	93,220,000.00	21,380,000.00	
13,510.00	- 11,540.00	58,370.00	- 8,696,000.00	93,220,000.00	21,380,000.00	
13,510.00	- 15,790.00	50,560.00	23,200,000.00	93,740,000.00	21,380,000.00	
13,510.00	- 7,292.00	57,470.00	- 14,500,000.00	92,690,000.00	21,380,000.00	
13,510.00	- 15,790.00	54,920.00	10,150,000.00	93,740,000.00	21,380,000.00	
13,510.00	- 7,292.00	61,830.00	- 27,540,000.00	92,690,000.00	21,380,000.00	
13,510.00	- 15,790.00	54,920.00	10,150,000.00	93,740,000.00	21,380,000.00	
13,510.00	- 7,292.00	61,830.00	- 27,540,000.00	92,690,000.00	21,380,000.00	
0.00	0.04	53,630.00	- 50,880,000.00	- 2,723,000.00	23.66	
0.00	0.05	57,990.00	- 63,920,000.00	- 2,723,000.00	29.68	
0.00	- 4,249.00	54,530.00	- 45,070,000.00	- 2,199,000.00	24.58	
0.00	- 11,540.00	53,630.00	19,620,000.00	- 2,723,000.00	- 354,600.00	
0.00	- 11,540.00	57,990.00	6,574,000.00	- 2,723,000.00	- 354,600.00	
0.00	- 15,790.00	50,180.00	38,470,000.00	- 2,199,000.00	- 354,600.00	
0.00	- 15,790.00	54,530.00	25,420,000.00	- 2,199,000.00	- 354,600.00	
0.00	- 7,292.00	61,450.00	- 12,270,000.00	- 3,246,000.00	- 354,600.00	
14,210.00	0.06	57,990.00	- 63,920,000.00	99,750,000.00	24,950,000.00	
14,210.00	4,249.00	57,090.00	- 69,720,000.00	99,230,000.00	24,950,000.00	
14,210.00	- 11,540.00	53,630.00	19,620,000.00	99,750,000.00	24,600,000.00	
14,210.00	- 11,540.00	57,990.00	6,574,000.00	99,750,000.00	24,600,000.00	
14,210.00	- 15,790.00	50,180.00	38,470,000.00	100,300,000.00	24,600,000.00	
14,210.00	- 7,292.00	57,090.00	772,700.00	99,230,000.00	24,600,000.00	
14,210.00	- 15,790.00	54,530.00	25,420,000.00	100,300,000.00	24,600,000.00	
14,210.00	- 7,292.00	61,450.00	- 12,270,000.00	99,230,000.00	24,600,000.00	
- 693.00	- 11,540.00	58,670.00	- 2,404,000.00	- 9,756,000.00	- 3,574,000.00	
- 693.00	- 11,540.00	63,030.00	- 15,450,000.00	- 9,756,000.00	- 3,574,000.00	
- 693.00	- 15,790.00	55,220.00	16,440,000.00	- 9,232,000.00	- 3,574,000.00	
- 693.00	- 7,292.00	66,490.00	- 34,300,000.00	- 10,280,000.00	- 3,574,000.00	
13,510.00	0.07	63,030.00	- 85,950,000.00	92,720,000.00	21,740,000.00	
13,510.00	4,249.00	62,130.00	- 91,750,000.00	92,200,000.00	21,740,000.00	
13,510.00	- 4,249.00	59,570.00	- 67,100,000.00	93,240,000.00	21,740,000.00	
13,510.00	4,249.00	66,490.00	- 104,800,000.00	92,200,000.00	21,740,000.00	
13,510.00	- 11,540.00	58,670.00	- 2,404,000.00	92,720,000.00	21,380,000.00	
13,510.00	- 11,540.00	63,030.00	- 15,450,000.00	92,720,000.00	21,380,000.00	
13,510.00	- 15,790.00	55,220.00	16,440,000.00	93,240,000.00	21,380,000.00	

 <b>IFICAV2</b>	 <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE	<b>ALTA SORVEGLIANZA</b>				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 207 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
13,510.00	-	7,292.00	62,130.00	-	21,250,000.00	92,200,000.00	21,380,000.00			
13,510.00	-	15,790.00	59,570.00	3,397,000.00	93,240,000.00	21,380,000.00				
13,510.00	-	7,292.00	66,490.00	-	34,300,000.00	92,200,000.00	21,380,000.00			
13,510.00	-	15,790.00	59,570.00	3,397,000.00	93,240,000.00	21,380,000.00				
13,510.00	-	7,292.00	66,490.00	-	34,300,000.00	92,200,000.00	21,380,000.00			
0.00		4,249.00	58,660.00	-	66,020,000.00	-	2,751,000.00	27.07		
0.00	-	11,540.00	59,560.00	10,280,000.00	-	2,228,000.00	-	354,600.00		
0.00	-	15,790.00	56,110.00	29,130,000.00	-	1,704,000.00	-	354,600.00		
0.00	-	7,292.00	63,020.00	-	8,570,000.00	-	2,751,000.00	-	354,600.00	
14,210.00	-	4,249.00	56,110.00	-	41,370,000.00	100,800,000.00	24,950,000.00			
14,210.00	-	11,540.00	55,210.00	23,320,000.00	100,200,000.00	24,600,000.00				
14,210.00	-	11,540.00	59,560.00	10,280,000.00	100,200,000.00	24,600,000.00				
14,210.00	-	15,790.00	51,750.00	42,170,000.00	100,800,000.00	24,600,000.00				
14,210.00	-	7,292.00	58,660.00	4,477,000.00	99,730,000.00	24,600,000.00				
14,210.00	-	15,790.00	56,110.00	29,130,000.00	100,800,000.00	24,600,000.00				
14,210.00	-	7,292.00	63,020.00	-	8,570,000.00	99,730,000.00	24,600,000.00			
-	693.00	0.05	60,250.00	-	69,200,000.00	-	9,261,000.00	-	3,219,000.00	
-	693.00	-	11,540.00	64,600.00	-	11,750,000.00	-	9,261,000.00	-	3,574,000.00
-	693.00	-	7,292.00	63,700.00	-	17,550,000.00	-	9,784,000.00	-	3,574,000.00
-	693.00	-	15,790.00	61,150.00	7,101,000.00	-	8,737,000.00	-	3,574,000.00	
-	693.00	-	7,292.00	68,060.00	-	30,590,000.00	-	9,784,000.00	-	3,574,000.00
13,510.00		0.07	64,600.00	-	82,240,000.00	93,220,000.00	21,740,000.00			
13,510.00	-	11,540.00	60,250.00	1,300,000.00	93,220,000.00	21,380,000.00				
13,510.00	-	11,540.00	64,600.00	-	11,750,000.00	93,220,000.00	21,380,000.00			
13,510.00	-	15,790.00	56,790.00	20,150,000.00	93,740,000.00	21,380,000.00				
13,510.00	-	7,292.00	63,700.00	-	17,550,000.00	92,690,000.00	21,380,000.00			
13,510.00	-	15,790.00	61,150.00	7,101,000.00	93,740,000.00	21,380,000.00				
13,510.00	-	7,292.00	68,060.00	-	30,590,000.00	92,690,000.00	21,380,000.00			
13,510.00	-	15,790.00	61,150.00	7,101,000.00	93,740,000.00	21,380,000.00				
13,510.00	-	7,292.00	68,060.00	-	30,590,000.00	92,690,000.00	21,380,000.00			
0.00		0.05	64,220.00	-	66,970,000.00	-	2,723,000.00	31.09		
0.00	-	4,249.00	56,410.00	-	35,080,000.00	-	2,199,000.00	19.97		
0.00		4,249.00	63,320.00	-	72,770,000.00	-	3,246,000.00	30.17		
0.00	-	11,540.00	64,220.00	3,524,000.00	-	2,723,000.00	-	354,600.00		
0.00	-	7,292.00	67,670.00	-	15,320,000.00	-	3,246,000.00	-	354,600.00	
14,210.00		0.06	64,220.00	-	66,970,000.00	99,750,000.00	24,950,000.00			
14,210.00	-	4,249.00	56,410.00	-	35,080,000.00	100,300,000.00	24,950,000.00			
14,210.00		4,249.00	63,320.00	-	72,770,000.00	99,230,000.00	24,950,000.00			
14,210.00	-	11,540.00	59,860.00	16,570,000.00	99,750,000.00	24,600,000.00				
14,210.00	-	11,540.00	64,220.00	3,524,000.00	99,750,000.00	24,600,000.00				
14,210.00	-	15,790.00	56,410.00	35,420,000.00	100,300,000.00	24,600,000.00				
14,210.00	-	7,292.00	63,320.00	-	2,278,000.00	99,230,000.00	24,600,000.00			
14,210.00	-	15,790.00	60,760.00	22,370,000.00	100,300,000.00	24,600,000.00				
14,210.00	-	7,292.00	67,670.00	-	15,320,000.00	99,230,000.00	24,600,000.00			
-	693.00	0.06	69,260.00	-	89,000,000.00	-	9,756,000.00	-	3,219,000.00	
-	693.00	4,249.00	72,710.00	-	107,800,000.00	-	10,280,000.00	-	3,219,000.00	
-	693.00	-	11,540.00	64,900.00	-	5,455,000.00	-	9,756,000.00	-	3,574,000.00
-	693.00	-	11,540.00	69,260.00	-	18,500,000.00	-	9,756,000.00	-	3,574,000.00
13,510.00		0.07	64,900.00	-	75,950,000.00	92,720,000.00	21,740,000.00			
13,510.00		0.08	69,260.00	-	89,000,000.00	92,720,000.00	21,740,000.00			
13,510.00	-	4,249.00	61,450.00	-	57,100,000.00	93,240,000.00	21,740,000.00			
13,510.00	-	4,249.00	65,800.00	-	70,150,000.00	93,240,000.00	21,740,000.00			
13,510.00		4,249.00	72,710.00	-	107,800,000.00	92,200,000.00	21,740,000.00			
13,510.00	-	11,540.00	64,900.00	-	5,455,000.00	92,720,000.00	21,380,000.00			
13,510.00	-	11,540.00	69,260.00	-	18,500,000.00	92,720,000.00	21,380,000.00			

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 208 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
	13,510.00	-	15,790.00		61,450.00	13,390,000.00		93,240,000.00		21,380,000.00
	13,510.00	-	7,292.00		68,360.00	- 24,300,000.00		92,200,000.00		21,380,000.00
	13,510.00	-	15,790.00		65,800.00	346,600.00		93,240,000.00		21,380,000.00
	13,510.00	-	7,292.00		72,710.00	- 37,350,000.00		92,200,000.00		21,380,000.00
	13,510.00	-	15,790.00		65,800.00	346,600.00		93,240,000.00		21,380,000.00
	13,510.00	-	7,292.00		72,710.00	- 37,350,000.00		92,200,000.00		21,380,000.00
	0.00	-	4,249.00		45,520.00	- 25,270,000.00		- 1,704,000.00		15.45
	0.00		4,249.00		52,430.00	- 62,970,000.00		- 2,751,000.00		25.66
	0.00	-	4,249.00		49,880.00	- 38,320,000.00		- 1,704,000.00		21.47
	0.00		4,249.00		56,790.00	- 76,020,000.00		- 2,751,000.00		31.68
	0.00		10,620.00		53,330.00	- 120,400,000.00		- 2,228,000.00		354,700.00
	0.00		6,370.00		45,520.00	- 88,560,000.00		- 1,704,000.00		354,700.00
	0.00		14,870.00		52,430.00	- 126,300,000.00		- 2,751,000.00		354,700.00
	0.00		14,870.00		56,790.00	- 139,300,000.00		- 2,751,000.00		354,700.00
	- 14,210.00		0.02		48,980.00	- 44,120,000.00		- 104,700,000.00		- 24,950,000.00
	- 14,210.00	-	4,249.00		45,520.00	- 25,270,000.00		- 104,200,000.00		- 24,950,000.00
	- 14,210.00	-	4,249.00		49,880.00	- 38,320,000.00		- 104,200,000.00		- 24,950,000.00
	- 14,210.00		4,249.00		56,790.00	- 76,020,000.00		- 105,200,000.00		- 24,950,000.00
	- 14,210.00		10,620.00		48,980.00	- 107,400,000.00		- 104,700,000.00		- 24,600,000.00
	- 14,210.00		10,620.00		53,330.00	- 120,400,000.00		- 104,700,000.00		- 24,600,000.00
	- 14,210.00		6,370.00		45,520.00	- 88,560,000.00		- 104,200,000.00		- 24,600,000.00
	- 14,210.00		14,870.00		52,430.00	- 126,300,000.00		- 105,200,000.00		- 24,600,000.00
	- 14,210.00		6,370.00		49,880.00	- 101,600,000.00		- 104,200,000.00		- 24,600,000.00
	- 14,210.00		14,870.00		56,790.00	- 139,300,000.00		- 105,200,000.00		- 24,600,000.00
	- 693.00		6,370.00		50,560.00	- 110,600,000.00		- 8,737,000.00		- 2,864,000.00
	- 14,900.00	-	4,249.00		54,920.00	- 60,350,000.00		- 111,200,000.00		- 28,170,000.00
	- 14,900.00		4,249.00		61,830.00	- 98,040,000.00		- 112,300,000.00		- 28,170,000.00
	- 14,900.00		10,620.00		54,020.00	- 129,400,000.00		- 111,700,000.00		- 27,820,000.00
	- 14,900.00		10,620.00		58,370.00	- 142,500,000.00		- 111,700,000.00		- 27,820,000.00
	- 14,900.00		6,370.00		50,560.00	- 110,600,000.00		- 111,200,000.00		- 27,820,000.00
	- 14,900.00		14,870.00		57,470.00	- 148,300,000.00		- 112,300,000.00		- 27,820,000.00
	- 14,900.00		6,370.00		54,920.00	- 123,600,000.00		- 111,200,000.00		- 27,820,000.00
	- 14,900.00		14,870.00		61,830.00	- 161,300,000.00		- 112,300,000.00		- 27,820,000.00
	- 14,900.00		6,370.00		54,920.00	- 123,600,000.00		- 111,200,000.00		- 27,820,000.00
	- 14,900.00		14,870.00		61,830.00	- 161,300,000.00		- 112,300,000.00		- 27,820,000.00
	0.00		10,620.00		53,630.00	- 114,200,000.00		- 2,723,000.00		354,700.00
	0.00		6,370.00		50,180.00	- 95,310,000.00		- 2,199,000.00		354,700.00
	0.00		14,870.00		57,090.00	- 133,000,000.00		- 3,246,000.00		354,700.00
	0.00		6,370.00		54,530.00	- 108,400,000.00		- 2,199,000.00		354,700.00
	0.00		14,870.00		61,450.00	- 146,100,000.00		- 3,246,000.00		354,700.00
	- 14,210.00		0.03		57,990.00	- 63,920,000.00		- 105,200,000.00		- 24,950,000.00
	- 14,210.00	-	4,249.00		50,180.00	- 32,030,000.00		- 104,700,000.00		- 24,950,000.00
	- 14,210.00		4,249.00		57,090.00	- 69,720,000.00		- 105,700,000.00		- 24,950,000.00
	- 14,210.00		10,620.00		53,630.00	- 114,200,000.00		- 105,200,000.00		- 24,600,000.00
	- 14,210.00		10,620.00		57,990.00	- 127,200,000.00		- 105,200,000.00		- 24,600,000.00
	- 14,210.00		6,370.00		50,180.00	- 95,310,000.00		- 104,700,000.00		- 24,600,000.00
	- 14,210.00		14,870.00		57,090.00	- 133,000,000.00		- 105,700,000.00		- 24,600,000.00
	- 14,210.00		6,370.00		54,530.00	- 108,400,000.00		- 104,700,000.00		- 24,600,000.00
	- 14,210.00		14,870.00		61,450.00	- 146,100,000.00		- 105,700,000.00		- 24,600,000.00
	- 693.00		6,370.00		55,220.00	- 117,300,000.00		- 9,232,000.00		- 2,864,000.00
	- 14,900.00		0.04		58,670.00	- 72,900,000.00		- 112,200,000.00		- 28,170,000.00
	- 14,900.00		0.05		63,030.00	- 85,950,000.00		- 112,200,000.00		- 28,170,000.00
	- 14,900.00	-	4,249.00		55,220.00	- 54,050,000.00		- 111,700,000.00		- 28,170,000.00
	- 14,900.00		4,249.00		62,130.00	- 91,750,000.00		- 112,800,000.00		- 28,170,000.00
	- 14,900.00		4,249.00		66,490.00	- 104,800,000.00		- 112,800,000.00		- 28,170,000.00



GENERAL CONTRACTOR



ALTA SORVEGLIANZA



FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45

Progetto  
IN17Lotto  
10Codifica Documento  
EI2CLOC000006Rev.  
AFoglio  
209 di 215

## Reazioni vincolari - EQU

Rx	N	Ry	N	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,900.00		10,620.00		58,670.00	-	136,200,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		10,620.00		63,030.00	-	149,200,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		6,370.00		55,220.00	-	117,300,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		14,870.00		62,130.00	-	155,000,000.00	-	112,800,000.00	-	27,820,000.00
-	14,900.00		6,370.00		59,570.00	-	130,400,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		14,870.00		66,490.00	-	168,100,000.00	-	112,800,000.00	-	27,820,000.00
-	14,900.00		6,370.00		59,570.00	-	130,400,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		14,870.00		66,490.00	-	168,100,000.00	-	112,800,000.00	-	27,820,000.00
	0.00		0.03		55,210.00	-	47,170,000.00	-	2,228,000.00		21.96
	0.00		0.04		59,560.00	-	60,220,000.00	-	2,228,000.00		27.98
	0.00	-	4,249.00		51,750.00	-	28,320,000.00	-	1,704,000.00		16.86
	0.00	-	4,249.00		56,110.00	-	41,370,000.00	-	1,704,000.00		22.88
	0.00		4,249.00		63,020.00	-	79,070,000.00	-	2,751,000.00		33.09
	0.00		10,620.00		55,210.00	-	110,500,000.00	-	2,228,000.00		354,700.00
	0.00		14,870.00		63,020.00	-	142,300,000.00	-	2,751,000.00		354,700.00
-	14,210.00		0.03		59,560.00	-	60,220,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00		58,660.00	-	66,020,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		4,249.00		63,020.00	-	79,070,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		10,620.00		55,210.00	-	110,500,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		10,620.00		59,560.00	-	123,500,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00		51,750.00	-	91,610,000.00	-	104,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		58,660.00	-	129,300,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		56,110.00	-	104,700,000.00	-	104,200,000.00	-	24,600,000.00
-	14,210.00		14,870.00		63,020.00	-	142,300,000.00	-	105,200,000.00	-	24,600,000.00
-	693.00	-	4,249.00		56,790.00	-	50,350,000.00	-	8,737,000.00	-	3,219,000.00
-	693.00		4,249.00		68,060.00	-	101,100,000.00	-	9,784,000.00	-	3,219,000.00
-	693.00		10,620.00		60,250.00	-	132,500,000.00	-	9,261,000.00	-	2,864,000.00
-	693.00		10,620.00		64,600.00	-	145,500,000.00	-	9,261,000.00	-	2,864,000.00
-	693.00		14,870.00		68,060.00	-	164,400,000.00	-	9,784,000.00	-	2,864,000.00
-	14,900.00		0.03		60,250.00	-	69,200,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		4,249.00		68,060.00	-	101,100,000.00	-	112,300,000.00	-	28,170,000.00
-	14,900.00		10,620.00		60,250.00	-	132,500,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		10,620.00		64,600.00	-	145,500,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		6,370.00		56,790.00	-	113,600,000.00	-	111,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		63,700.00	-	151,300,000.00	-	112,300,000.00	-	27,820,000.00
-	14,900.00		6,370.00		61,150.00	-	126,700,000.00	-	111,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		68,060.00	-	164,400,000.00	-	112,300,000.00	-	27,820,000.00
-	14,900.00		6,370.00		61,150.00	-	126,700,000.00	-	111,200,000.00	-	27,820,000.00
-	14,900.00		14,870.00		68,060.00	-	164,400,000.00	-	112,300,000.00	-	27,820,000.00
	0.00		6,370.00		60,760.00	-	111,400,000.00	-	2,199,000.00		354,700.00
	0.00		14,870.00		67,670.00	-	149,100,000.00	-	3,246,000.00		354,700.00
-	14,210.00	-	4,249.00		60,760.00	-	48,130,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00		67,670.00	-	85,820,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00		10,620.00		59,860.00	-	117,200,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		10,620.00		64,220.00	-	130,300,000.00	-	105,200,000.00	-	24,600,000.00
-	14,210.00		6,370.00		56,410.00	-	98,360,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		14,870.00		63,320.00	-	136,100,000.00	-	105,700,000.00	-	24,600,000.00
-	14,210.00		6,370.00		60,760.00	-	111,400,000.00	-	104,700,000.00	-	24,600,000.00
-	14,210.00		14,870.00		67,670.00	-	149,100,000.00	-	105,700,000.00	-	24,600,000.00
-	693.00	-	4,249.00		61,450.00	-	57,100,000.00	-	9,232,000.00	-	3,219,000.00
-	693.00		4,249.00		68,360.00	-	94,800,000.00	-	10,280,000.00	-	3,219,000.00
-	693.00		10,620.00		64,900.00	-	139,200,000.00	-	9,756,000.00	-	2,864,000.00
-	693.00		6,370.00		65,800.00	-	133,400,000.00	-	9,232,000.00	-	2,864,000.00
-	14,900.00		0.05		69,260.00	-	89,000,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		68,360.00	-	94,800,000.00	-	112,800,000.00	-	28,170,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 210 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	14,900.00	-	4,249.00	65,800.00	-	70,150,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		10,620.00	64,900.00	-	139,200,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		10,620.00	69,260.00	-	152,300,000.00	-	112,200,000.00	-	27,820,000.00
-	14,900.00		6,370.00	61,450.00	-	120,400,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		14,870.00	68,360.00	-	158,100,000.00	-	112,800,000.00	-	27,820,000.00
-	14,900.00		6,370.00	65,800.00	-	133,400,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		14,870.00	72,710.00	-	171,100,000.00	-	112,800,000.00	-	27,820,000.00
-	14,900.00		6,370.00	65,800.00	-	133,400,000.00	-	111,700,000.00	-	27,820,000.00
-	14,900.00		14,870.00	72,710.00	-	171,100,000.00	-	112,800,000.00	-	27,820,000.00
	0.00		0.03	48,980.00	-	44,120,000.00	-	2,228,000.00		20.56
	0.00	-	11,540.00	48,980.00		26,380,000.00	-	2,228,000.00	-	354,600.00
	0.00	-	11,540.00	53,330.00		13,330,000.00	-	2,228,000.00	-	354,600.00
-	0.00	-	15,790.00	45,520.00		45,220,000.00	-	1,704,000.00	-	354,600.00
-	14,210.00		0.03	53,330.00	-	57,170,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00	52,430.00	-	62,970,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00	48,980.00		26,380,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00	53,330.00		13,330,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	45,520.00		45,220,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	52,430.00		7,527,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	49,880.00		32,180,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	56,790.00	-	5,519,000.00	-	105,200,000.00	-	25,310,000.00
-	693.00	-	4,249.00	54,920.00	-	60,350,000.00	-	8,737,000.00	-	3,219,000.00
-	693.00		4,249.00	61,830.00	-	98,040,000.00	-	9,784,000.00	-	3,219,000.00
-	693.00	-	11,540.00	54,020.00		4,350,000.00	-	9,261,000.00	-	3,574,000.00
-	693.00	-	15,790.00	50,560.00		23,200,000.00	-	8,737,000.00	-	3,574,000.00
-	693.00	-	7,292.00	57,470.00	-	14,500,000.00	-	9,784,000.00	-	3,574,000.00
-	14,900.00		0.03	54,020.00	-	66,150,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		0.04	58,370.00	-	79,190,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	50,560.00	-	47,300,000.00	-	111,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00	57,470.00	-	84,990,000.00	-	112,300,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	54,020.00		4,350,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	58,370.00	-	8,696,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	50,560.00		23,200,000.00	-	111,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	57,470.00	-	14,500,000.00	-	112,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	54,920.00		10,150,000.00	-	111,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	61,830.00	-	27,540,000.00	-	112,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	54,920.00		10,150,000.00	-	111,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	61,830.00	-	27,540,000.00	-	112,300,000.00	-	28,530,000.00
	0.00		4,249.00	57,090.00	-	69,720,000.00	-	3,246,000.00		28.76
	0.00	-	7,292.00	57,090.00		772,800.00	-	3,246,000.00	-	354,600.00
-	14,210.00		0.02	53,630.00	-	50,880,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00	54,530.00	-	45,070,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00	61,450.00	-	82,770,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00	53,630.00		19,620,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00	57,990.00		6,574,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	50,180.00		38,470,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	57,090.00		772,900.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00	54,530.00		25,420,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00	61,450.00	-	12,270,000.00	-	105,700,000.00	-	25,310,000.00
-	693.00		0.05	58,670.00	-	72,900,000.00	-	9,756,000.00	-	3,219,000.00
-	693.00		0.06	63,030.00	-	85,950,000.00	-	9,756,000.00	-	3,219,000.00
-	693.00		4,249.00	62,130.00	-	91,750,000.00	-	10,280,000.00	-	3,219,000.00
-	693.00	-	4,249.00	59,570.00	-	67,100,000.00	-	9,232,000.00	-	3,219,000.00
-	693.00		4,249.00	66,490.00	-	104,800,000.00	-	10,280,000.00	-	3,219,000.00
-	693.00	-	7,292.00	62,130.00	-	21,250,000.00	-	10,280,000.00	-	3,574,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>		<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>		Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 211 di 215

Reazioni vincolari - EQU											
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm	
-	693.00	-	15,790.00		59,570.00	3,397,000.00	-	9,232,000.00	-	3,574,000.00	
-	14,900.00	-	4,249.00		59,570.00	-	67,100,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00		58,670.00	-	2,404,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00		63,030.00	-	15,450,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		55,220.00	-	16,440,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		62,130.00	-	21,250,000.00	-	112,800,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		59,570.00	-	3,397,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		66,490.00	-	34,300,000.00	-	112,800,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		59,570.00	-	3,397,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		66,490.00	-	34,300,000.00	-	112,800,000.00	-	28,530,000.00
	0.00	-	11,540.00		55,210.00	-	23,320,000.00	-	2,228,000.00	-	354,600.00
	0.00	-	15,790.00		51,750.00	-	42,170,000.00	-	1,704,000.00	-	354,600.00
	0.00	-	7,292.00		58,660.00	-	4,477,000.00	-	2,751,000.00	-	354,600.00
-	14,210.00		0.02		55,210.00	-	47,170,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		51,750.00	-	28,320,000.00	-	104,200,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		56,110.00	-	41,370,000.00	-	104,200,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		55,210.00	-	23,320,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00		59,560.00	-	10,280,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		51,750.00	-	42,170,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		58,660.00	-	4,477,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		56,110.00	-	29,130,000.00	-	104,200,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		63,020.00	-	8,569,000.00	-	105,200,000.00	-	25,310,000.00
-	693.00	-	11,540.00		60,250.00	-	1,300,000.00	-	9,261,000.00	-	3,574,000.00
-	693.00	-	15,790.00		56,790.00	-	20,150,000.00	-	8,737,000.00	-	3,574,000.00
-	14,900.00		0.04		64,600.00	-	82,240,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		56,790.00	-	50,350,000.00	-	111,200,000.00	-	28,170,000.00
-	14,900.00		4,249.00		63,700.00	-	88,040,000.00	-	112,300,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00		61,150.00	-	63,400,000.00	-	111,200,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00		60,250.00	-	1,300,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00		64,600.00	-	11,750,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		56,790.00	-	20,150,000.00	-	111,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		63,700.00	-	17,550,000.00	-	112,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		61,150.00	-	7,101,000.00	-	111,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		68,060.00	-	30,590,000.00	-	112,300,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00		61,150.00	-	7,101,000.00	-	111,200,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00		68,060.00	-	30,590,000.00	-	112,300,000.00	-	28,530,000.00
	0.00		0.04		59,860.00	-	53,930,000.00	-	2,723,000.00		25.07
	0.00	-	4,249.00		60,760.00	-	48,130,000.00	-	2,199,000.00		25.99
	0.00		4,249.00		67,670.00	-	85,820,000.00	-	3,246,000.00		36.19
	0.00	-	11,540.00		59,860.00	-	16,570,000.00	-	2,723,000.00	-	354,600.00
	0.00	-	15,790.00		56,410.00	-	35,420,000.00	-	2,199,000.00	-	354,600.00
	0.00	-	7,292.00		63,320.00	-	2,278,000.00	-	3,246,000.00	-	354,600.00
	0.00	-	15,790.00		60,760.00	-	22,370,000.00	-	2,199,000.00	-	354,600.00
-	14,210.00		0.03		59,860.00	-	53,930,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00		0.03		64,220.00	-	66,970,000.00	-	105,200,000.00	-	24,950,000.00
-	14,210.00	-	4,249.00		56,410.00	-	35,080,000.00	-	104,700,000.00	-	24,950,000.00
-	14,210.00		4,249.00		63,320.00	-	72,770,000.00	-	105,700,000.00	-	24,950,000.00
-	14,210.00	-	11,540.00		59,860.00	-	16,570,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	11,540.00		64,220.00	-	3,524,000.00	-	105,200,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		56,410.00	-	35,420,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		63,320.00	-	2,278,000.00	-	105,700,000.00	-	25,310,000.00
-	14,210.00	-	15,790.00		60,760.00	-	22,370,000.00	-	104,700,000.00	-	25,310,000.00
-	14,210.00	-	7,292.00		67,670.00	-	15,320,000.00	-	105,700,000.00	-	25,310,000.00
-	693.00		0.05		64,900.00	-	75,950,000.00	-	9,756,000.00	-	3,219,000.00
-	693.00	-	15,790.00		61,450.00	-	13,390,000.00	-	9,232,000.00	-	3,574,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17    Lotto 10    Codifica Documento EI2CLOC000006    Rev. A    Foglio 212 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	693.00	-	7,292.00	68,360.00	-	24,300,000.00	-	10,280,000.00	-	3,574,000.00
-	693.00	-	15,790.00	65,800.00		346,700.00	-	9,232,000.00	-	3,574,000.00
-	693.00	-	7,292.00	72,710.00	-	37,350,000.00	-	10,280,000.00	-	3,574,000.00
-	14,900.00		0.04	64,900.00	-	75,950,000.00	-	112,200,000.00	-	28,170,000.00
-	14,900.00	-	4,249.00	61,450.00	-	57,100,000.00	-	111,700,000.00	-	28,170,000.00
-	14,900.00		4,249.00	72,710.00	-	107,800,000.00	-	112,800,000.00	-	28,170,000.00
-	14,900.00	-	11,540.00	64,900.00	-	5,455,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	11,540.00	69,260.00	-	18,500,000.00	-	112,200,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	61,450.00	-	13,390,000.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	68,360.00	-	24,300,000.00	-	112,800,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	65,800.00		346,800.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	72,710.00	-	37,350,000.00	-	112,800,000.00	-	28,530,000.00
-	14,900.00	-	15,790.00	65,800.00		346,800.00	-	111,700,000.00	-	28,530,000.00
-	14,900.00	-	7,292.00	72,710.00	-	37,350,000.00	-	112,800,000.00	-	28,530,000.00
-	246.30	-	82.15	53,130.00	-	48,870,000.00	-	2,697,000.00	-	36,490.00
	246.30		82.22	55,710.00	-	49,180,000.00		2,253,000.00		36,540.00
	153.00	-	8,408.00	51,620.00		32,770,000.00	-	1,458,000.00	-	100,900.00
-	153.00		8,408.00	57,220.00	-	130,800,000.00	-	3,492,000.00		101,000.00
-	93.30	-	8,490.00	50,330.00		32,930,000.00	-	1,680,000.00	-	137,500.00
	399.30	-	8,326.00	52,910.00		32,620,000.00	-	1,236,000.00	-	64,420.00
-	399.20		8,326.00	55,930.00	-	130,700,000.00	-	3,714,000.00		64,470.00
	93.31		8,490.00	58,510.00	-	131,000,000.00	-	3,270,000.00		137,500.00
-	20,330.00	-	441.90	54,910.00	-	45,980,000.00	-	159,500,000.00		3,300,000.00
	20,330.00		442.00	53,930.00	-	52,070,000.00		154,600,000.00	-	3,300,000.00
-	20,580.00	-	524.10	53,620.00	-	45,820,000.00	-	159,700,000.00		3,264,000.00
-	20,090.00	-	359.70	56,190.00	-	46,130,000.00	-	159,300,000.00		3,337,000.00
	20,090.00		359.80	52,650.00	-	51,920,000.00		154,300,000.00	-	3,337,000.00
	20,580.00		524.10	55,220.00	-	52,230,000.00		154,800,000.00	-	3,264,000.00
-	20,180.00	-	8,850.00	52,100.00		35,820,000.00	-	158,500,000.00		3,199,000.00
-	20,480.00		7,966.00	57,710.00	-	127,800,000.00	-	160,500,000.00		3,401,000.00
	20,480.00	-	7,966.00	51,130.00		29,730,000.00		155,600,000.00	-	3,401,000.00
	20,180.00		8,850.00	56,740.00	-	133,900,000.00		153,500,000.00	-	3,199,000.00
-	20,420.00	-	8,932.00	50,820.00		35,970,000.00	-	158,700,000.00		3,163,000.00
-	19,930.00	-	8,768.00	53,390.00		35,670,000.00	-	158,300,000.00		3,236,000.00
-	20,730.00		7,884.00	56,420.00	-	127,600,000.00	-	160,700,000.00		3,365,000.00
-	20,240.00		8,048.00	59,000.00	-	127,900,000.00	-	160,300,000.00		3,438,000.00
	20,240.00	-	8,048.00	49,840.00		29,880,000.00		155,400,000.00	-	3,438,000.00
	20,730.00	-	7,884.00	52,420.00		29,570,000.00		155,800,000.00	-	3,365,000.00
	19,930.00		8,768.00	55,450.00	-	133,700,000.00		153,300,000.00	-	3,236,000.00
	20,420.00		8,932.00	58,020.00	-	134,000,000.00		153,800,000.00	-	3,163,000.00
-	198.00		0.04	55,860.00	-	55,320,000.00	-	4,485,000.00	-	919,700.00
-	444.30	-	82.15	54,570.00	-	55,160,000.00	-	4,707,000.00	-	956,200.00
	48.28		82.23	57,150.00	-	55,470,000.00	-	4,262,000.00	-	883,200.00
-	45.02	-	8,408.00	53,060.00		26,480,000.00	-	3,468,000.00	-	1,021,000.00
-	351.00		8,408.00	58,660.00	-	137,100,000.00	-	5,501,000.00	-	818,700.00
-	291.30	-	8,490.00	51,770.00		26,630,000.00	-	3,690,000.00	-	1,057,000.00
	201.30	-	8,326.00	54,350.00		26,330,000.00	-	3,246,000.00	-	984,100.00
-	597.20		8,326.00	57,370.00	-	137,000,000.00	-	5,724,000.00	-	855,200.00
-	104.70		8,490.00	59,950.00	-	137,300,000.00	-	5,279,000.00	-	782,200.00
-	20,530.00	-	441.90	56,350.00	-	52,270,000.00	-	161,500,000.00		2,381,000.00
	20,130.00		442.00	55,370.00	-	58,360,000.00		152,600,000.00	-	4,220,000.00
-	20,780.00	-	524.10	55,060.00	-	52,120,000.00	-	161,700,000.00		2,344,000.00
-	20,280.00	-	359.70	57,630.00	-	52,420,000.00	-	161,300,000.00		2,417,000.00
	19,890.00		359.80	54,090.00	-	58,210,000.00		152,300,000.00	-	4,257,000.00
	20,380.00		524.10	56,660.00	-	58,520,000.00		152,800,000.00	-	4,183,000.00

<b>GENERAL CONTRACTOR</b>  <b>IRICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
<b>FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45</b>	Progetto <b>IN17</b>	Lotto <b>10</b>	Codifica Documento <b>EI2CLOC000006</b>	Rev. <b>A</b>	Foglio <b>213 di 215</b>

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	20,380.00	-	8,850.00		53,540.00	29,530,000.00	-	160,500,000.00		2,280,000.00
-	20,680.00		7,966.00		59,150.00	- 134,100,000.00	-	162,500,000.00		2,482,000.00
	20,290.00	-	7,966.00		52,570.00	23,430,000.00		153,600,000.00	-	4,321,000.00
	19,980.00		8,850.00		58,180.00	- 140,200,000.00		151,500,000.00	-	4,119,000.00
-	20,620.00	-	8,932.00		52,260.00	29,680,000.00	-	160,700,000.00		2,243,000.00
-	20,130.00	-	8,768.00		54,830.00	29,370,000.00	-	160,300,000.00		2,316,000.00
-	20,930.00		7,884.00		57,860.00	- 133,900,000.00	-	162,800,000.00		2,445,000.00
-	20,440.00		8,048.00		60,440.00	- 134,200,000.00	-	162,300,000.00		2,518,000.00
	20,040.00	-	8,048.00		51,280.00	23,590,000.00		153,300,000.00	-	4,357,000.00
	20,530.00	-	7,884.00		53,860.00	23,280,000.00		153,800,000.00	-	4,284,000.00
	19,730.00		8,768.00		56,890.00	- 140,000,000.00		151,300,000.00	-	4,156,000.00
	20,230.00		8,932.00		59,460.00	- 140,300,000.00		151,800,000.00	-	4,083,000.00
	509.90	-	28,030.00		45,080.00	223,600,000.00		914,300.00	-	336,500.00
-	509.90		28,030.00		63,760.00	- 321,700,000.00	-	5,864,000.00		336,600.00
	263.60	-	28,110.00		43,790.00	223,800,000.00		692,100.00	-	373,000.00
	756.20	-	27,940.00		46,370.00	223,500,000.00		1,137,000.00	-	300,000.00
-	756.20		27,940.00		62,470.00	- 321,500,000.00	-	6,087,000.00		300,000.00
-	263.60		28,110.00		65,050.00	- 321,800,000.00	-	5,642,000.00		373,100.00
-	6,099.00	-	132.50		54,570.00	- 48,110,000.00	-	49,590,000.00		990,100.00
	6,099.00		132.60		54,270.00	- 49,940,000.00		44,640,000.00	-	990,100.00
-	6,346.00	-	214.70		53,280.00	- 47,960,000.00	-	49,810,000.00		953,600.00
-	5,853.00	-	50.35		55,850.00	- 48,260,000.00	-	49,360,000.00		1,027,000.00
	5,853.00		50.42		52,990.00	- 49,780,000.00		44,410,000.00	-	1,027,000.00
	6,346.00		214.80		55,560.00	- 50,090,000.00		44,860,000.00	-	953,600.00
-	5,590.00	-	28,160.00		45,230.00	224,500,000.00	-	46,200,000.00		653,600.00
-	6,609.00		27,890.00		63,910.00	- 320,800,000.00	-	52,980,000.00		1,327,000.00
	6,609.00	-	27,890.00		44,930.00	222,700,000.00		48,020,000.00	-	1,327,000.00
	5,590.00		28,160.00		63,620.00	- 322,600,000.00		41,250,000.00	-	653,500.00
-	5,836.00	-	28,240.00		43,940.00	224,700,000.00	-	46,420,000.00		617,100.00
-	5,343.00	-	28,080.00		46,510.00	224,400,000.00	-	45,970,000.00		690,100.00
-	6,856.00		27,810.00		62,620.00	- 320,600,000.00	-	53,200,000.00		1,290,000.00
-	6,363.00		27,980.00		65,200.00	- 320,900,000.00	-	52,750,000.00		1,363,000.00
	6,363.00	-	27,980.00		43,650.00	222,900,000.00		47,800,000.00	-	1,363,000.00
	6,856.00	-	27,810.00		46,220.00	222,600,000.00		48,250,000.00	-	1,290,000.00
	5,343.00		28,080.00		62,330.00	- 322,400,000.00		41,020,000.00	-	690,000.00
	5,836.00		28,240.00		64,900.00	- 322,800,000.00		41,470,000.00	-	617,000.00
	311.90	-	28,030.00		46,520.00	217,300,000.00	-	1,095,000.00	-	1,256,000.00
-	707.90		28,030.00		65,200.00	- 328,000,000.00	-	7,874,000.00	-	583,100.00
	65.64	-	28,110.00		45,230.00	217,500,000.00	-	1,317,000.00	-	1,293,000.00
	558.20	-	27,940.00		47,810.00	217,200,000.00	-	873,000.00	-	1,220,000.00
-	954.20		27,940.00		63,910.00	- 327,800,000.00	-	8,096,000.00	-	619,700.00
-	461.60		28,110.00		66,490.00	- 328,100,000.00	-	7,652,000.00	-	546,600.00
-	6,297.00	-	132.50		56,010.00	- 54,400,000.00	-	51,600,000.00		70,410.00
	5,901.00		132.60		55,710.00	- 56,230,000.00		42,630,000.00	-	1,910,000.00
-	6,544.00	-	214.70		54,720.00	- 54,250,000.00	-	51,820,000.00		33,890.00
-	6,051.00	-	50.35		57,290.00	- 54,560,000.00	-	51,370,000.00		106,900.00
	5,655.00		50.43		54,430.00	- 56,080,000.00		42,400,000.00	-	1,946,000.00
	6,148.00		214.80		57,000.00	- 56,390,000.00		42,850,000.00	-	1,873,000.00
-	5,788.00	-	28,160.00		46,670.00	218,300,000.00	-	48,210,000.00	-	266,100.00
-	6,807.00		27,890.00		65,350.00	- 327,100,000.00	-	54,980,000.00		406,900.00
	6,411.00	-	27,890.00		46,370.00	216,400,000.00		46,020,000.00	-	2,246,000.00
	5,392.00		28,160.00		65,060.00	- 328,900,000.00		39,240,000.00	-	1,573,000.00
-	6,034.00	-	28,240.00		45,380.00	218,400,000.00	-	48,430,000.00	-	302,600.00
-	5,541.00	-	28,080.00		47,950.00	218,100,000.00	-	47,980,000.00	-	229,600.00
-	7,054.00		27,810.00		64,060.00	- 326,900,000.00	-	55,210,000.00		370,400.00

<b>GENERAL CONTRACTOR</b>  <b>IFICAV2</b>	<b>ALTA SORVEGLIANZA</b>  <b>ITALFERR</b> GRUPPO FERROVIE DELLO STATO ITALIANE				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento E12CLOC000006	Rev. A	Foglio 214 di 215

Reazioni vincolari - EQU										
Rx	N	Ry	N	N	Mx	Nmm	My	Nmm	Mz	Nmm
-	6,561.00		27,980.00		66,640.00	- 327,200,000.00	-	54,760,000.00		443,500.00
	6,165.00	-	27,980.00		45,090.00	216,600,000.00		45,790,000.00	-	2,283,000.00
	6,658.00	-	27,810.00		47,660.00	216,300,000.00		46,240,000.00	-	2,210,000.00
	5,145.00		28,080.00		63,770.00	- 328,700,000.00		39,010,000.00	-	1,610,000.00
	5,638.00		28,240.00		66,340.00	- 329,000,000.00		39,460,000.00	-	1,537,000.00
-	820.90	-	273.90		50,130.00	- 48,510,000.00	-	3,216,000.00	-	121,700.00
	820.90		274.00		58,710.00	- 49,540,000.00	-	1,734,000.00		121,700.00
-	667.90	-	8,682.00		47,320.00	33,290,000.00	-	2,199,000.00	-	222,700.00
	973.90	-	8,134.00		55,910.00	32,260,000.00	-	717,600.00		20,780.00
-	973.90		8,134.00		52,930.00	- 130,300,000.00	-	4,233,000.00	-	20,730.00
	668.00		8,682.00		61,520.00	- 131,300,000.00	-	2,751,000.00		222,700.00
-	6,920.00	-	406.50		50,270.00	- 47,590,000.00	-	50,330,000.00		868,400.00
-	5,279.00		141.40		58,860.00	- 48,630,000.00	-	48,850,000.00		1,112,000.00
	5,279.00	-	141.30		49,980.00	- 49,420,000.00		43,890,000.00	-	1,112,000.00
	6,920.00		406.60		58,570.00	- 50,450,000.00		45,380,000.00	-	868,400.00
-	5,947.00	-	8,540.00		51,760.00	33,690,000.00	-	48,570,000.00		889,200.00
-	6,252.00		8,275.00		57,370.00	- 129,900,000.00	-	50,600,000.00		1,091,000.00
	6,252.00	-	8,275.00		51,470.00	31,860,000.00		45,650,000.00	-	1,091,000.00
	5,947.00		8,540.00		57,080.00	- 131,700,000.00		43,620,000.00	-	889,100.00
-	6,767.00	-	8,814.00		47,470.00	34,200,000.00	-	49,310,000.00		767,400.00
-	5,126.00	-	8,266.00		56,060.00	33,170,000.00	-	47,830,000.00		1,011,000.00
-	7,073.00		8,001.00		53,070.00	- 129,400,000.00	-	51,340,000.00		969,400.00
-	5,432.00		8,549.00		61,660.00	- 130,400,000.00	-	49,860,000.00		1,213,000.00
	5,432.00	-	8,549.00		47,180.00	32,370,000.00		44,910,000.00	-	1,213,000.00
	7,073.00	-	8,001.00		55,770.00	31,340,000.00		46,390,000.00	-	969,300.00
	5,126.00		8,267.00		52,780.00	- 131,200,000.00		42,880,000.00	-	1,011,000.00
	6,767.00		8,814.00		61,370.00	- 132,300,000.00		44,360,000.00	-	767,400.00
-	1,019.00	-	273.90		51,570.00	- 54,800,000.00	-	5,225,000.00	-	1,041,000.00
	622.90		274.00		60,150.00	- 55,830,000.00	-	3,744,000.00	-	798,000.00
-	865.90	-	8,682.00		48,760.00	27,000,000.00	-	4,208,000.00	-	1,142,000.00
	775.90	-	8,134.00		57,350.00	25,960,000.00	-	2,727,000.00	-	898,900.00
-	1,172.00		8,134.00		54,370.00	- 136,600,000.00	-	6,242,000.00	-	940,400.00
	470.00		8,682.00		62,960.00	- 137,600,000.00	-	4,761,000.00	-	697,000.00
-	7,118.00	-	406.50		51,710.00	- 53,890,000.00	-	52,340,000.00	-	51,310.00
-	5,477.00		141.40		60,300.00	- 54,920,000.00	-	50,850,000.00		192,100.00
	5,081.00	-	141.30		51,420.00	- 55,720,000.00		41,890,000.00	-	2,031,000.00
	6,722.00		406.60		60,010.00	- 56,750,000.00		43,370,000.00	-	1,788,000.00
-	6,145.00	-	8,540.00		53,200.00	27,390,000.00	-	50,580,000.00	-	30,550.00
-	6,450.00		8,275.00		58,810.00	- 136,200,000.00	-	52,610,000.00		171,400.00
	6,054.00	-	8,275.00		52,910.00	25,570,000.00		43,640,000.00	-	2,011,000.00
	5,749.00		8,540.00		58,520.00	- 138,000,000.00		41,610,000.00	-	1,809,000.00
-	6,965.00	-	8,814.00		48,910.00	27,910,000.00	-	51,320,000.00	-	152,300.00
-	5,324.00	-	8,266.00		57,500.00	26,880,000.00	-	49,840,000.00		91,170.00
-	7,271.00		8,001.00		54,510.00	- 135,700,000.00	-	53,350,000.00		49,650.00
-	5,630.00		8,549.00		63,100.00	- 136,700,000.00	-	51,870,000.00		293,100.00
	5,234.00	-	8,549.00		48,620.00	26,080,000.00		42,900,000.00	-	2,132,000.00
	6,875.00	-	8,001.00		57,210.00	25,050,000.00		44,380,000.00	-	1,889,000.00
	4,928.00		8,267.00		54,220.00	- 137,500,000.00		40,870,000.00	-	1,931,000.00
	6,569.00		8,814.00		62,810.00	- 138,500,000.00		42,350,000.00	-	1,687,000.00

GENERAL CONTRACTOR 		ALTA SORVEGLIANZA 				
FASE ALT.1 - RELAZIONE DI CALCOLO BASAMENTO SEGNALE S43 S45	Progetto IN17	Lotto 10	Codifica Documento EI2CLOC000006	Rev. A	Foglio 215 di 215	