VERBALE DI ACCORDO
Ai sensi dell'art. 4, Legge n. 300/1970 e s.m.i., avente ad oggetto l'installazione e le modalità di utilizzo degli impianti di videosorveglianza a bordo dei treni

In data 14 novembre 2019 in Roma, si sono incontrate:

Trenitalia S.p.A. con l'assistenza di Ferrovie dello Stato Italiane S.p.A.

e

le Segreterie Nazionali delle Organizzazioni Sindacali Filt/Cgil, Fit/Cisl, Uiltrasporti, Ugl Taf, SLM Fast Confsal e OrSA Ferrovie.

Premesso che:

- con accordo del 7 settembre 2017 le parti hanno convenuto l'installazione di impianti di videosorveglianza a bordo treno individuandone, altresì, le caratteristiche e le modalità di utilizzo e di visualizzazione;
- al punto 10 del suddetto accordo si prevede che "l'eventuale installazione di ulteriori sistemi sarà oggetto di nuovi e successivi accordi tra le parti, ai sensi dell'art 4 della legge n.300/1970";
- Trenitalia S.p.A. ha rappresentato di voler procedere con l'installazione di sistemi di videosorveglianza a bordo dei nuovi treni "Pop" e "Rock".

Le parti convengono quanto segue.

1. Le premesse e gli allegati costituiscono parte integrante del presente accordo.
2. Ferme restando le previsioni dell'accordo del 7 settembre 2017, che si intendono richiamate nella presente intesa, le parti concordano sulla installazione ed utilizzazione del sistema di videosorveglianza a bordo dei suddetti nuovi treni "Pop" e "Rock".
3. I sistemi di videosorveglianza presenti a bordo treno saranno installati secondo le planimetrie allegate al presente verbale e verranno utilizzati, anche relativamente alla visualizzazione delle immagini, secondo le modalità definite nell'anzidetta intesa del 7 settembre 2017.
4. Per tutto quanto non previsto dal presente accordo, le parti rinviano alle prescrizioni dettate dal Regolamento (UE) 2016/679, dal D.Lgs. n. 196/2003 come integrato con le modifiche introdotte dal D.Lgs. n. 101/2018, dai provvedimenti dell'Autorità Garante per la Protezione dei Dati Personali e dalla normativa vigente in materia.

Trenitalia S.p.A.

Ferrovie dello Stato Italiane S.p.A.

Segreterie Nazionali

Filt/Cgil

Fit/Cisl

Uiltrasporti

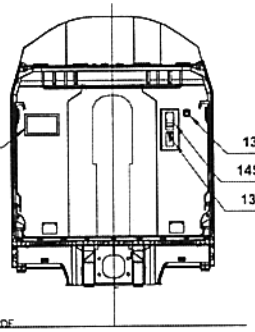
Ugl Taf

SLM Fast Confsal

OrSA Ferrovie

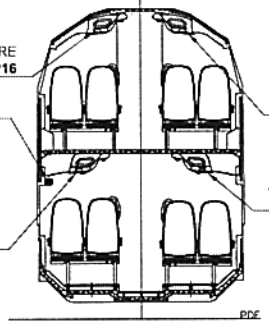
CASSA TA
LAYOUT COMPONENTI PIS - SEZIONI

SEZ. A-A
RUOTATA 90°



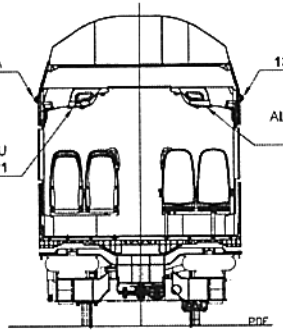
13A31 - DISPLAY 18.5" (lato CE1)
13A06 - IP CAMERA 90° (lato CE1)
14S04 - MANIGLIA EMERGENZA (lato CE1)
13P02 - CITOFONO PAI (lato CE1)

SEZ. C1-C1
RUOTATA 90°



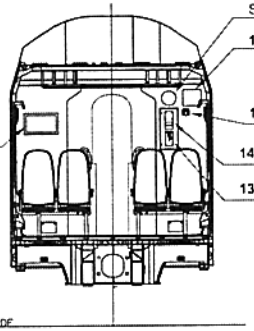
ALTOPARLANTI SU BAGAGLIERE 13P14 - 13P16
13A10 - IP CAMERA 60°
ALTOPARLANTI SU BAGAGLIERE 13P12 - 13P10
ALTOPARLANTI SU BAGAGLIERE 13P17 - 13P26 (predisposizione) - 13P19
ALTOPARLANTI SU BAGAGLIERE 13P13 - 13P11

SEZ. E1-E1
RUOTATA 90°



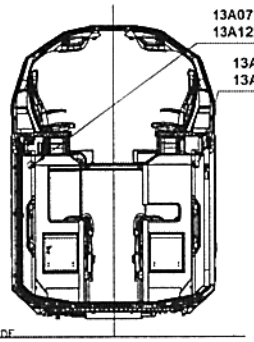
13A04 - IP CAMERA ESTERNA
ALTOPARLANTE SU BAGAGLIERA 13P21
13A05 - IP CAMERA ESTERNA
ALTOPARLANTE SU BAGAGLIERA 13P24 (predisposizione)

SEZ. A1-A1
RUOTATA 90°



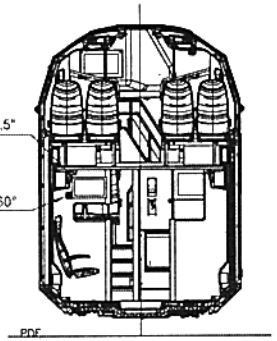
13T02 - PATCH ANTENNA SU PARETE
13A17 - ACCESS POINT WIFI
13A33 - DISPLAY 18,5" (lato CE2)
13A13 - IP CAMERA 90° (lato CE2)
14S07 - MANIGLIA EMERGENZA (lato CE2)
13P05 - CITOFONO PAI (lato CE2)

SEZ. D1-D1
RUOTATA 90°



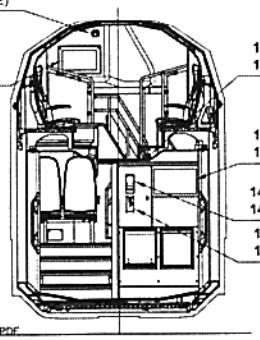
13A07 - IP CAMERA 90°(lato CE1)
13A12 - IP CAMERA 90°(lato CE2)
13A08 - IP CAMERA 90° (lato CE1)
13A11 - IP CAMERA 90° (lato CE2)

SEZ. F1-F1
RUOTATA 90°



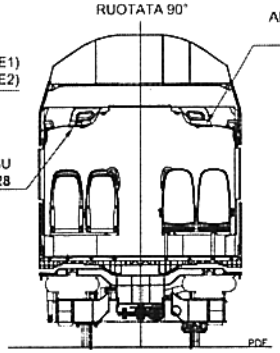
13A32 - DISPLAY 18.5"
13A09 - IP CAMERA 60°

SEZ. B1-B1
RUOTATA 90°



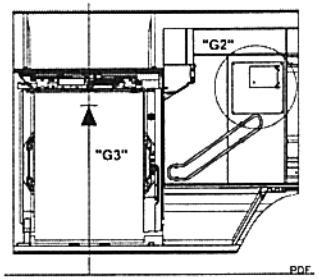
13A14 - IP CAMERA 60° (lato CE1)
13A15 - IP CAMERA 60° (lato CE2)
13A29 - DISPLAY 21.5" (lato CE1)
13A30 - DISPLAY 21.5" (lato CE2)
13P15 - ALTOPARLANTE SU CIELO VESTIBOLO (lato CE1)
13P09 - ALTOPARLANTE SU CIELO VESTIBOLO (lato CE2)
13A27 - DISPLAY 24" (lato CE1)
13A28 - DISPLAY 24" (lato CE2)
14S05 - MANIGLIA EMERGENZA (lato CE1)
14S06 - MANIGLIA EMERGENZA (lato CE2)
13P03 - CITOFONO PAI (lato CE1)
13P04 - CITOFONO PAI (lato CE2)

SEZ. L1-L1
RUOTATA 90°



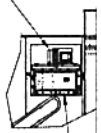
ALTOPARLANTE SU BAGAGLIERA 13P23 (predisposizione)
ALTOPARLANTE SU BAGAGLIERA 13P28

SEZ. G1-G1



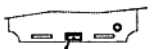
13P08 - HANDSET INTERCOM TRAIN STAFF

PARTICOLARE "G2"
(senza portelle)



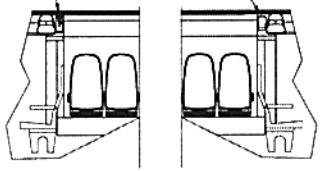
13A20 - DISPLAY ESTERNO

VISTA "G3"
(da sotto)



13A24-ETH
CONNETTORE M1 PEOPLE COUNTER

13P06 - CITOFONO PAI
14S08 - MANIGLIA DI EMERGENZA

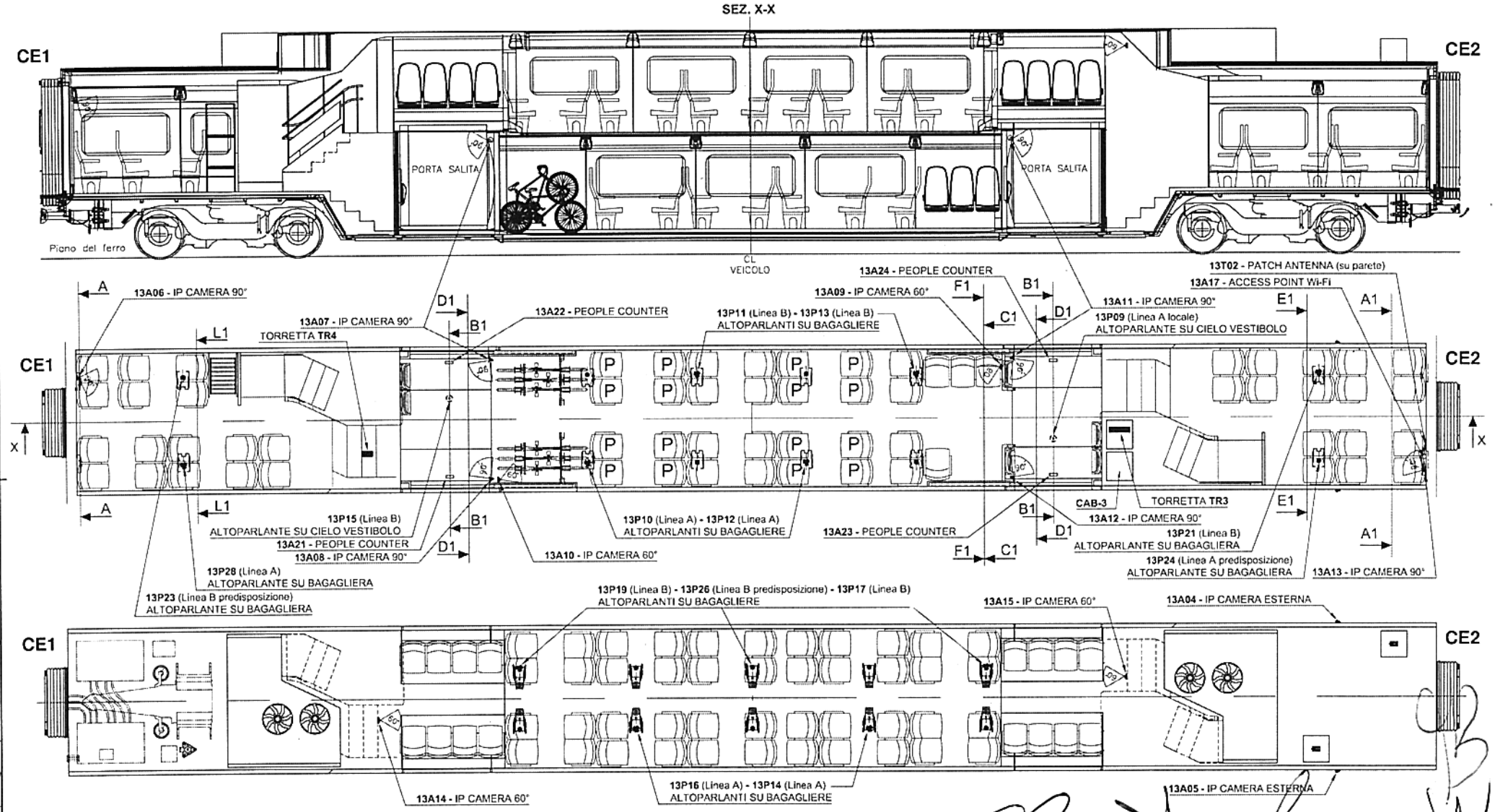


SEZ. M1-M1

SEZ. N1-N1
RUOTATA 180°

HITACHI		LAYOUT APPARECCHI CASSA TA CARAVAGGIO ETR 521/ETR 421 LAYOUT EQUIPMENTS COACH TA CARAVAGGIO ETR 521/ETR 421	
		TL01P016915F	02	15/23

CASSA TA
LAYOUT COMPONENTI PIS



COLLEGAMENTI ALTOPARLANTI

LINEA "A" LOCAL - Da CAB-3 a CAB-2 quindi 13P09

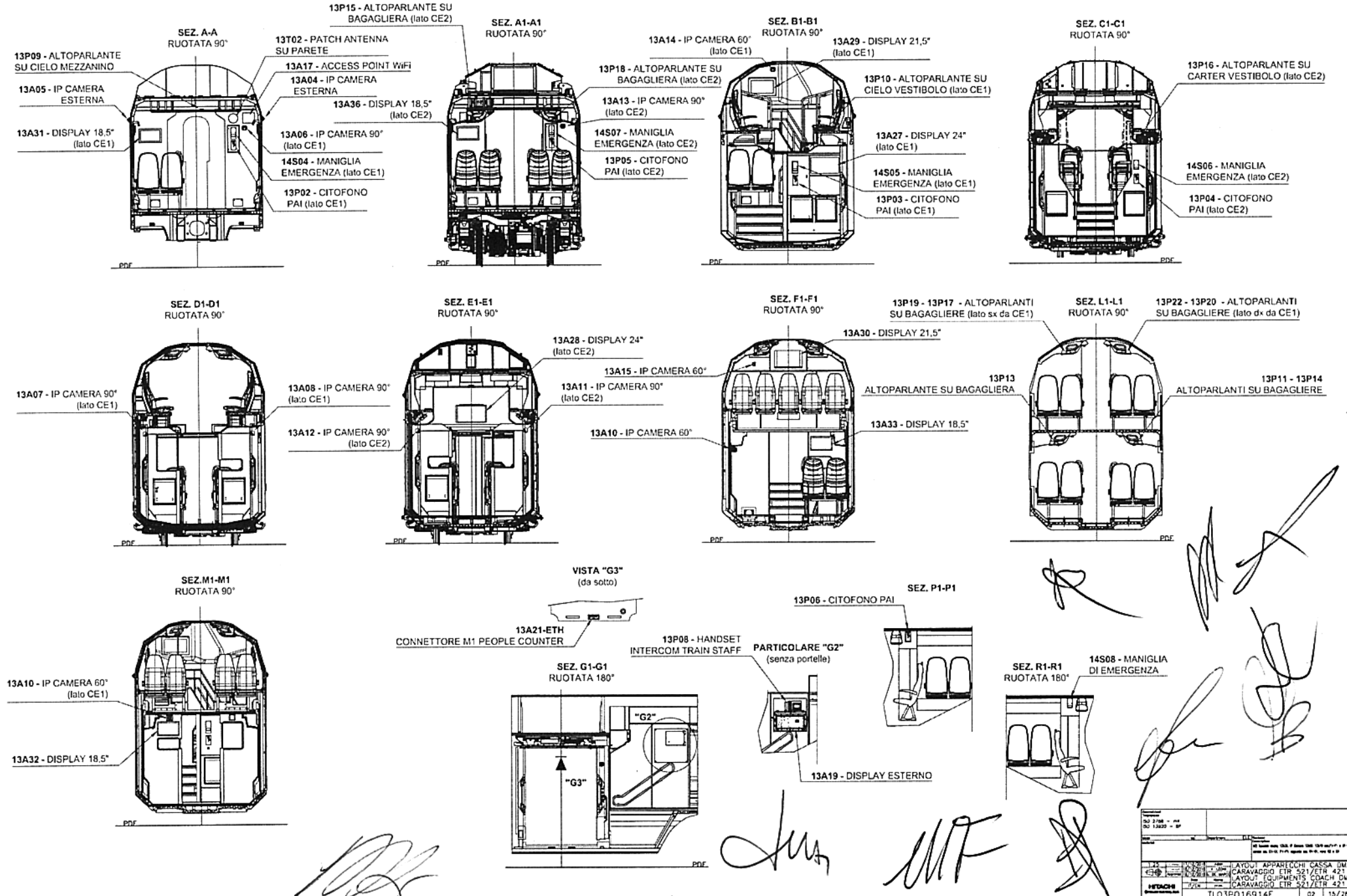
LINEA "A" - Da CAB-3 a CAB-2, da questo a 13P12-13P10 poi al 13P28 nel mezzanino CE1
Da CAB-2 al 13P24 nel mezzanino CE2
Da CAB-2 al piano superiore 13P14-13P16

LINEA "B" - Da CE1 sottocassa a TR3, quindi CAB3/CAB2:
Da CAB-2 al 13P21 nel mezzanino CE2
Da CAB-2 a quelli nel comparto 13P13-13P11, poi il 13P15 nel vestibolo e il 13P23 nel mezzanino CE1
Da CAB-2 sale al piano superiore al 13P17-13P26-13P19

NOTA PREDISPOSIZIONE
Gli altoparlanti 13P23 - 13P24 - 13P26 sono in predisposizione come cablaggio, ma non sono presenti come dispositivi.

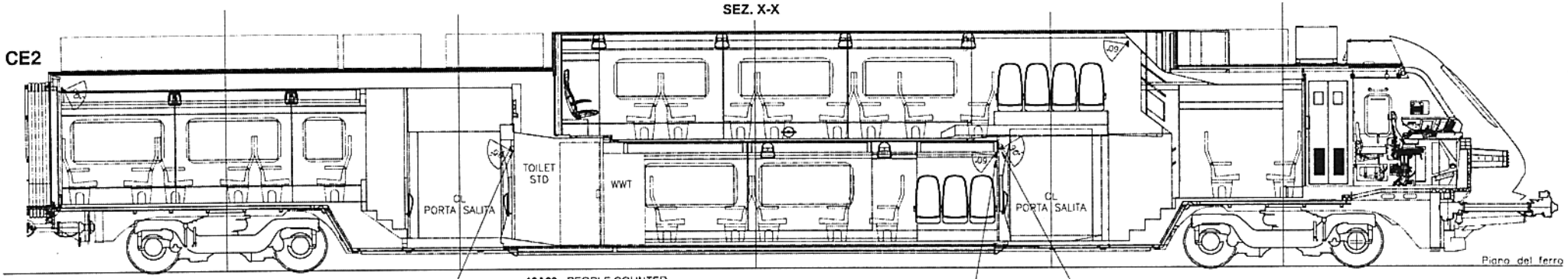
LAYOUT APPARECCHI CASSA TA		
CARAVAGGIO ETR 521/ETR 421		
LAYOUT EQUIPMENTS COACH TA		
CARAVAGGIO ETR 521/ETR 421		
TL01P016915F	02	14/23

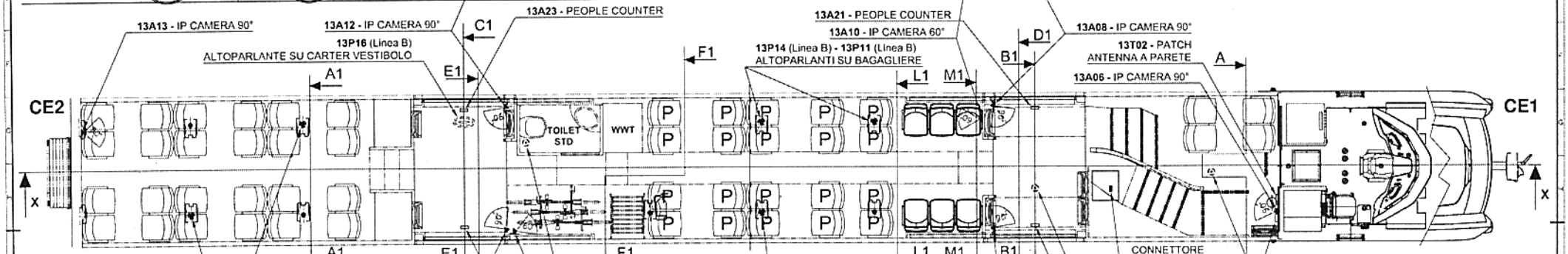
CASSA DM2
LAYOUT COMPONENTI PIS - SEZIONI

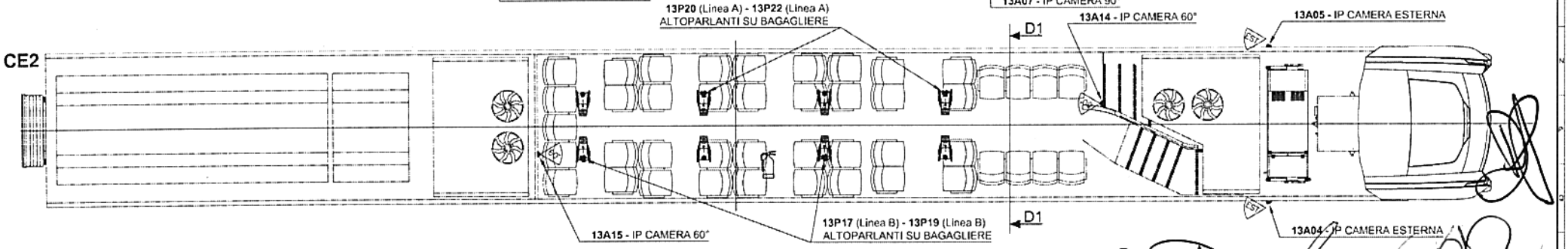


CASSA DM2
LAYOUT COMPONENTI PIS

SEZ. X-X







COLLEGAMENTI ALTOPARLANTI

LINEA "A" LOCAL - Da CAB-3 a CAB2-X05V a 13P09

LINEA "A" - Da CAB-3 a CAB-2 a 13P10-13P13-13P12
Da CAB-2 a 13P22-13P20
Da CAB-2 a TR3, poi sottocassa a TR4 e CAB-4, da questo a 13P18

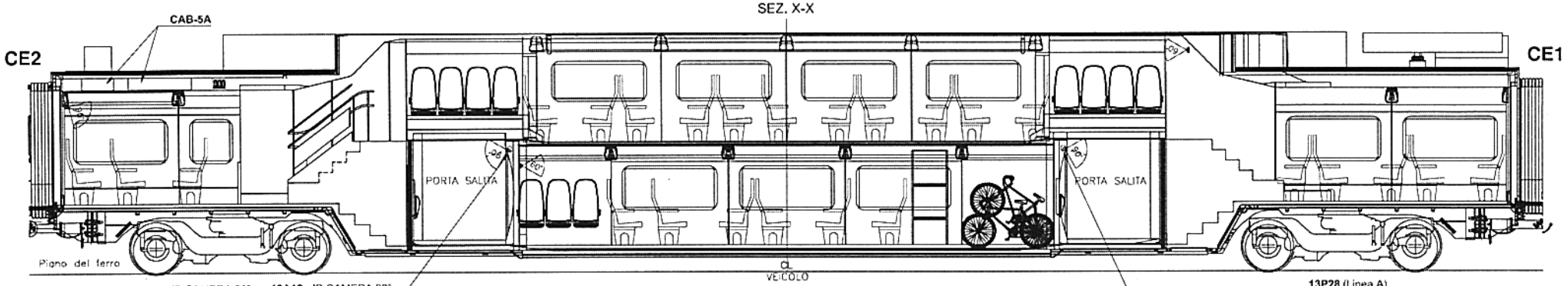
LINEA "B" - Da CE2-X02F sottocassa a TR4 poi CAB-4, quindi 13P15-13P16
Da CAB-4 e TR4 sottocassa a TR3, poi CAB2 a 13P11-13P14
Da CAB-2 a 13P19-13P17

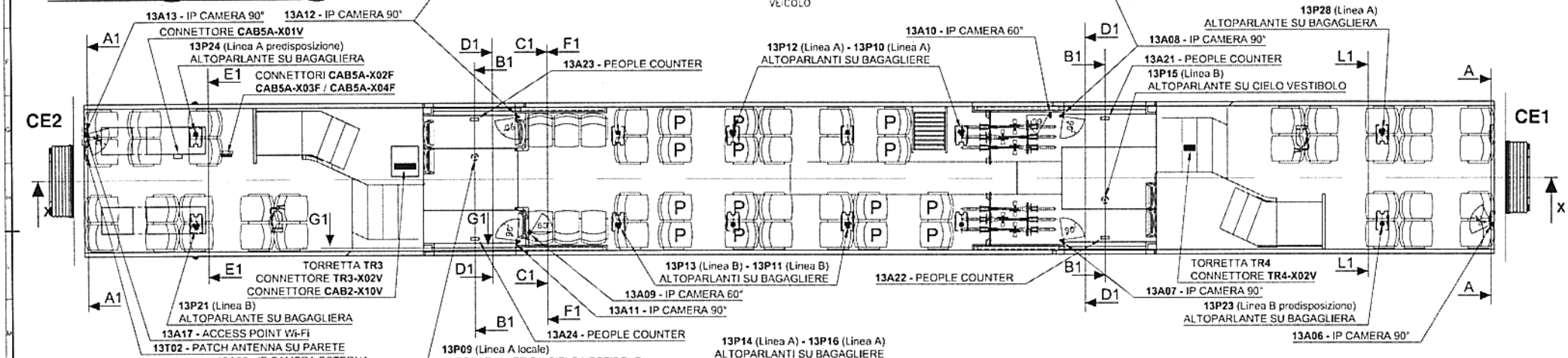
135	LAYOUT APPARECCHI CASSA DM2		
	CARAVAGGIO ETR 521/ETR 421		
	LAYOUT EQUIPMENTS COACH DM2		
HITACHI	CARAVAGGIO ETR 521/ETR 421		
	TL03P016914F	02	14/28

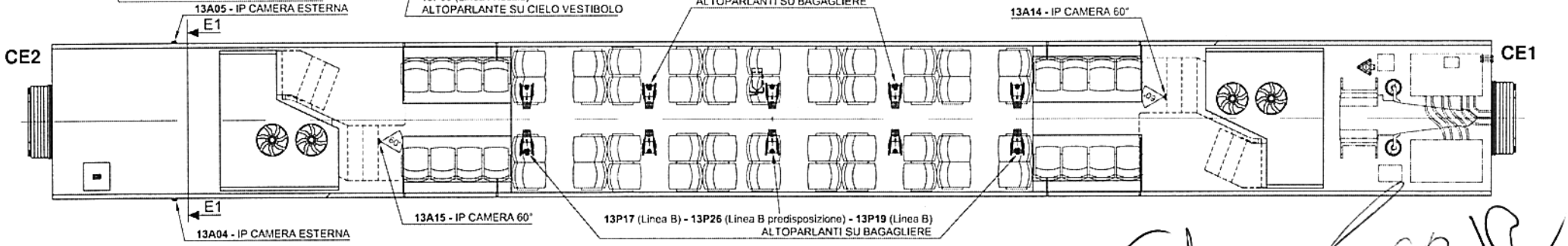
CASSA TB

LAYOUT COMPONENTI PIS

SEZ. X-X







COLLEGAMENTI ALTOPARLANTI

LINEA "A" LOCAL - Da CAB-5A al 13P09 nel vestibolo CE2

LINEA "A" - Da CAB-5A al 13P24 nel mezzanino CE2, da questo a quelli nel comparto 13P12 e 13P10, poi al 13P28 nel mezzanino CE1
Da CAB-5A al piano superiore 13P14 e 13P16

LINEA "B" - Da CE1 sottocassa a TR3, quindi da CAB-2 a CAB-5A dalla quale si smista per i seguenti:
Da CAB-5A al 13P21 nel mezzanino CE2, da questo a quelli nel comparto 13P13 e 13P11, poi al 13P15 nel vestibolo CE1, infine al 13P23 nel mezzanino CE1
Da CAB-5A al piano superiore al 13P17, 13P26 e 13P19

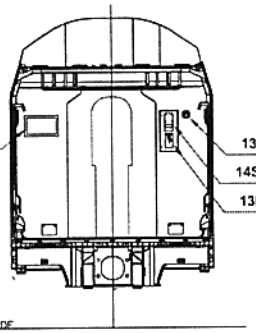
NOTA PREDISPOSIZIONE
Gli altoparlanti 13P23 - 13P24 - 13P26 sono in predisposizione come cablaggio, ma non sono presenti come dispositivi.

1:25		LAYOUT APPARECCHI CASSA TB	
		CARAVAGGIO ETR 521/ETR 421	
		LAYOUT EQUIPMENTS COACH TB	
HITACHI		CARAVAGGIO ETR 521/ETR 421	
		TL01P016916F	02 14/23

CASSA TB

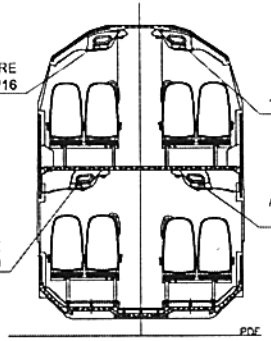
LAYOUT COMPONENTI PIS - SEZIONI

SEZ. A-A
RUOTATA 90°



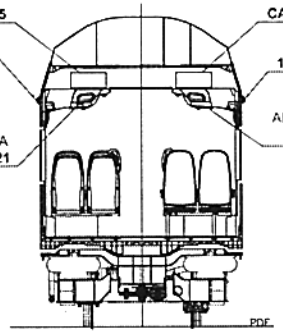
13A31 - DISPLAY 18,5" (lato CE1)
13A06 - IP CAMERA 90° (lato CE1)
14S04 - MANIGLIA EMERGENZA (lato CE1)
13P02 - CITOFONO PAI (lato CE1)

SEZ. C1-C1
RUOTATA 90°



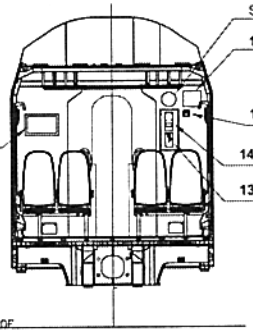
ALTOPARLANTI SU BAGAGLIERE
13P14 - 13P16
ALTOPARLANTI SU BAGAGLIERE
13P17 - 13P26 (predisposizione) - 13P19
ALTOPARLANTI SU BAGAGLIERE
13P13 - 13P11
ALTOPARLANTI SU BAGAGLIERE
13P12 - 13P10

SEZ. E1-E1
RUOTATA 90°



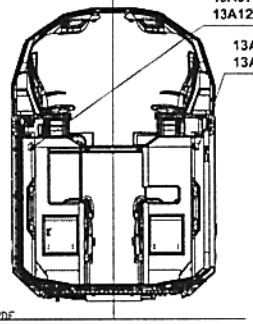
CAB-5
CAB-5A
13A04 - IP CAMERA ESTERNA
13A05 - IP CAMERA ESTERNA
ALTOPARLANTE SU BAGAGLIERA
13P24 (predisposizione)
ALTOPARLANTE SU BAGAGLIERA
13P21

SEZ. A1-A1
RUOTATA 90°



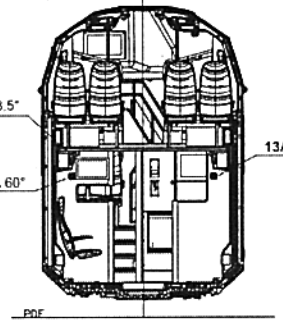
13T02 - PATCH ANTENNA
SU PARETE
13A17 - ACCESS POINT WiFi
13A13 - IP CAMERA 90° (lato CE2)
13A33 - DISPLAY 18,5" (lato CE2)
14S07 - MANIGLIA EMERGENZA (lato CE2)
13P05 - CITOFONO PAI (lato CE2)

SEZ. D1-D1
RUOTATA 90°



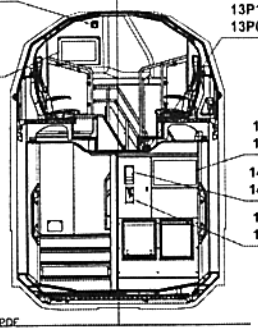
13A07 - IP CAMERA 90°(lato CE1)
13A12 - IP CAMERA 90°(lato CE2)
13A08 - IP CAMERA 90° (lato CE1)
13A11 - IP CAMERA 90° (lato CE2)

SEZ. F1-F1
RUOTATA 90°



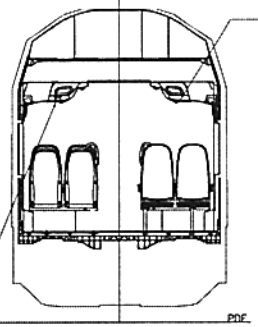
13A32 - DISPLAY 18.5"
13A10 - IP CAMERA 60°
13A09 - IP CAMERA 60°

SEZ. B1-B1
RUOTATA 90°



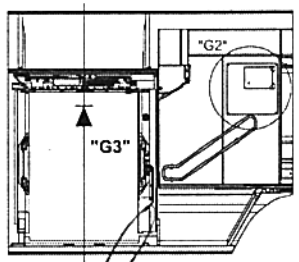
13A14 - IP CAMERA 60° (lato CE1)
13A15 - IP CAMERA 60° (lato CE2)
13P15 - ALTOPARLANTE SU CIELO VESTIBOLO (lato CE1)
13P09 - ALTOPARLANTE SU CIELO VESTIBOLO (lato CE2)
13A29 - DISPLAY 21,5" (lato CE1)
13A30 - DISPLAY 21,5" (lato CE2)
13A27 - DISPLAY 24" (lato CE1)
13A28 - DISPLAY 24" (lato CE2)
14S05 - MANIGLIA EMERGENZA (lato CE1)
14S06 - MANIGLIA EMERGENZA (lato CE2)
13P03 - CITOFONO PAI (lato CE1)
13P04 - CITOFONO PAI (lato CE2)
ALTOPARLANTE SU BAGAGLIERA
13P28

SEZ. L1-L1
RUOTATA 90°

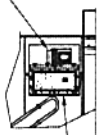


ALTOPARLANTE SU BAGAGLIERA
13P23 (predisposizione)

SEZ. G1-G1
RUOTATA 180°

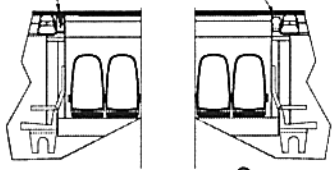


13P08 - HANDSET
INTERCOM TRAIN STAFF
PARTICOLARE "G2"
(senza portelle)



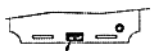
13A20 - DISPLAY ESTERNO

13P06 - CITOFONO PAI
14S08 - MANIGLIA
DI EMERGENZA



SEZ. M1-M1
RUOTATA 180°
SEZ. N1-N1

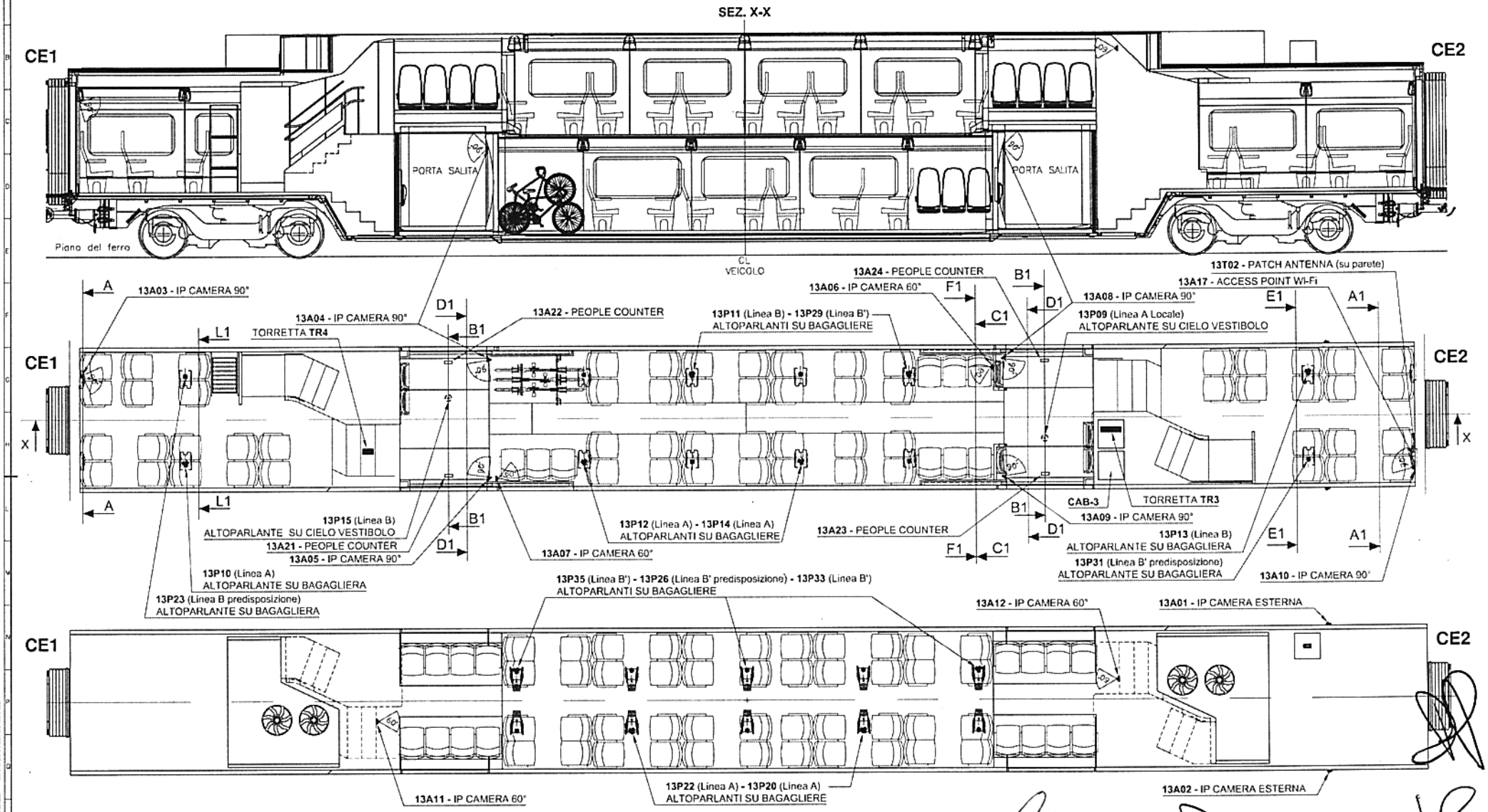
VISTA "G3"
(da sotto)



13A24-ETH
CONNETTORE M1 PEOPLE COUNTER

HITACHI	LAYOUT APPARECCHI CASSA TB CARAVAGGIO ETR 521/ETR 421 LAYOUT EQUIPMENTS COACH TB CARAVAGGIO ETR 521/ETR 421		
	TL01P016916F	02	15/23

CASSA TX
LAYOUT COMPONENTI PIS



COLLEGAMENTI ALTOPARLANTI

LINEA "A" LOCAL - Da CAB-3 a CAB-2 quindi 13P09

LINEA "A" - Da CAB-3 a CAB-2, da questo a 13P14-13P12 e poi al 13P10 nel mezzanino
Da CAB-2 al piano superiore 13P20-13P22

LINEA "B" - Da CE1 sottocassa a TR3, poi CAB-3 a CAB2, da questo al 13P13
- Da CAB-2 al 13P11, poi nel vestibolo al 13P15 e nel mezzanino al 13P23

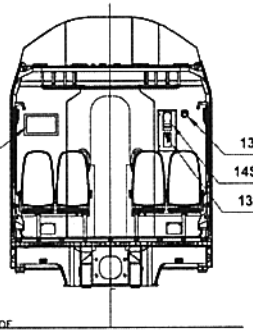
LINEA "B-Bis" - Da CE2 sottocassa a TR3, poi CAB-3 a CAB2 e da questo al 13P31
Da CAB-2 al 13P29 e da questo al piano superiore 13P33-13P26-13P35

NOTA PREDISPOSIZIONE
Gli altoparlanti 13P23 - 13P26 - 13P31 sono in predisposizione come cablaggio, ma non sono presenti come dispositivi.

02	10/12/2018		LAYOUT APPAREECH. CASSA TX CARAVAGGIO ETR 521	
01	10/12/2018		LAYOUT EQUIPMENTS COACH TX CARAVAGGIO ETR 521	
00	10/12/2018			
Rev.	Date	Sheet		
			TL01P01691BF	02	14/23

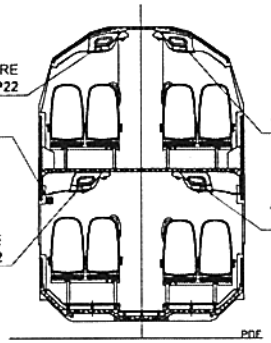
CASSA TX
LAYOUT COMPONENTI PIS - SEZIONI

SEZ. A-A
RUOTATA 90°



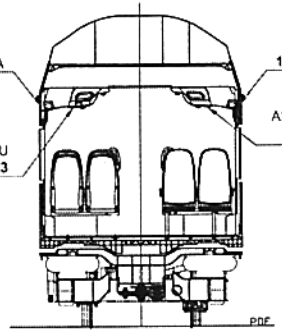
13A31 - DISPLAY 18,5" (lato CE1)
13A03 - IP CAMERA 90° (lato CE1)
14S04 - MANIGLIA EMERGENZA (lato CE1)
13P02 - CITOFONO PAI (lato CE1)

SEZ. C1-C1
RUOTATA 90°



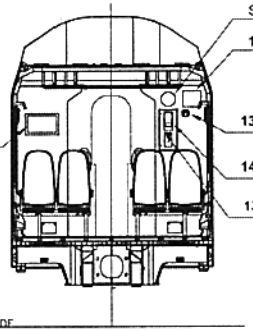
ALTOPARLANTI SU BAGAGLIERE 13P20 - 13P22
13A07 - IP CAMERA 60°
ALTOPARLANTI SU BAGAGLIERE 13P14 - 13P12
ALTOPARLANTI SU BAGAGLIERE 13P33 - 13P26 (predisposizione) - 13P35
ALTOPARLANTI SU BAGAGLIERE 13P29 - 13P11

SEZ. E1-E1
RUOTATA 90°



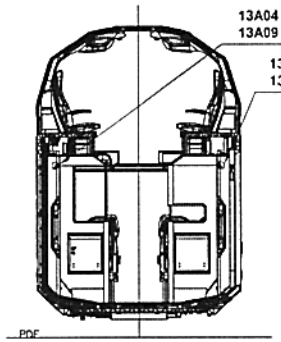
13A01 - IP CAMERA ESTERNA
ALTOPARLANTE SU BAGAGLIERA 13P13
13A02 - IP CAMERA ESTERNA
ALTOPARLANTE SU BAGAGLIERA 13P31 (predisposizione)

SEZ. A1-A1
RUOTATA 90°



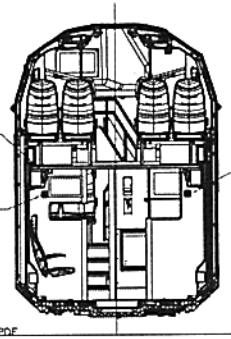
13T02 - PATCH ANTENNA SU PARETE
13A17 - ACCESS POINT WiFi
13A33 - DISPLAY 18,5" (lato CE2)
13A10 - IP CAMERA 90° (lato CE2)
14S07 - MANIGLIA EMERGENZA (lato CE2)
13P05 - CITOFONO PAI (lato CE2)

SEZ. D1-D1
RUOTATA 90°



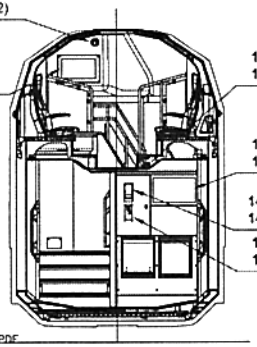
13A04 - IP CAMERA 90°(lato CE1)
13A09 - IP CAMERA 90°(lato CE2)
13A05 - IP CAMERA 90° (lato CE1)
13A08 - IP CAMERA 90° (lato CE2)

SEZ. F1-F1
RUOTATA 90°



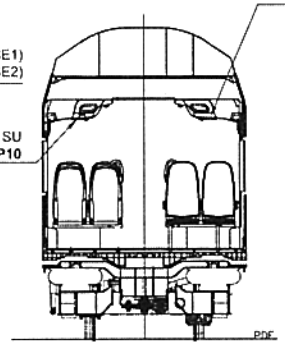
13A32 - DISPLAY 18,5"
13A06 - IP CAMERA 60°
13A07 - IP CAMERA 60°

SEZ. B1-B1
RUOTATA 90°



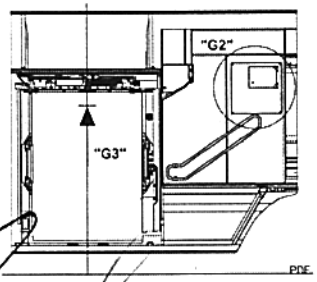
13A11 - IP CAMERA 60° (lato CE1)
13A12 - IP CAMERA 60° (lato CE2)
13A29 - DISPLAY 21,5" (lato CE1)
13A30 - DISPLAY 21,5" (lato CE2)
13P15 - ALTOPARLANTE SU CIELO VESTIBOLO (lato CE1)
13P09 - ALTOPARLANTE SU CIELO VESTIBOLO (lato CE2)
13A27 - DISPLAY 24" (lato CE1)
13A28 - DISPLAY 24" (lato CE2)
14S05 - MANIGLIA EMERGENZA (lato CE1)
14S06 - MANIGLIA EMERGENZA (lato CE2)
13P03 - CITOFONO PAI (lato CE1)
13P04 - CITOFONO PAI (lato CE2)

SEZ. L1-L1
RUOTATA 90°



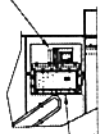
ALTOPARLANTE SU BAGAGLIERA 13P23 (predisposizione)
ALTOPARLANTE SU BAGAGLIERA 13P10

SEZ. G1-G1



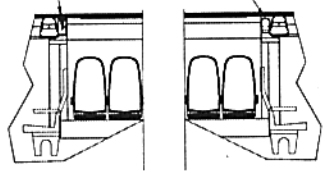
13P08 - HANDSET INTERCOM TRAIN STAFF

PARTICOLARE "G2"
(senza portelle)



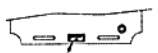
13A20 - DISPLAY ESTERNO

13P06 - CITOFONO PAI
14S08 - MANIGLIA DI EMERGENZA



SEZ. M1-M1
SEZ. N1-N1
RUOTATA 180°

VISTA "G3"
(da sotto)

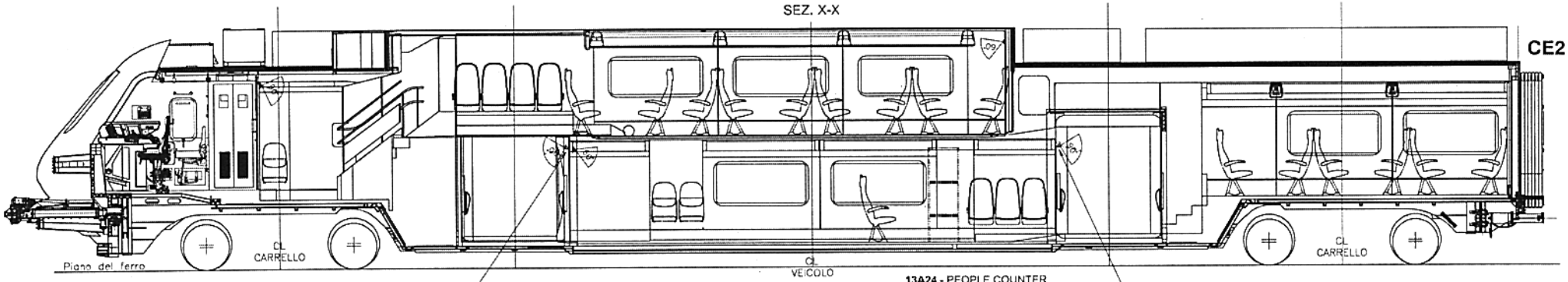


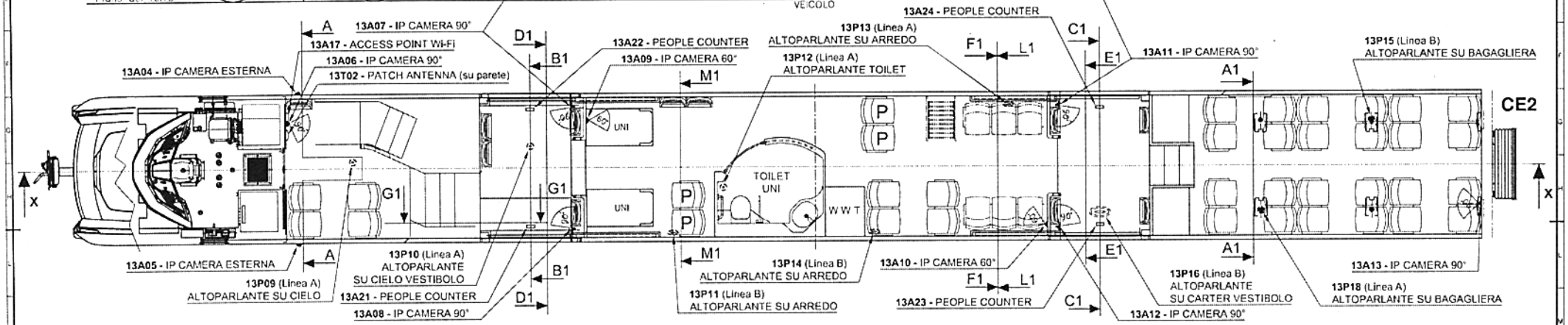
13A24-ETH
CONNETTORE M1 PEOPLE COUNTER

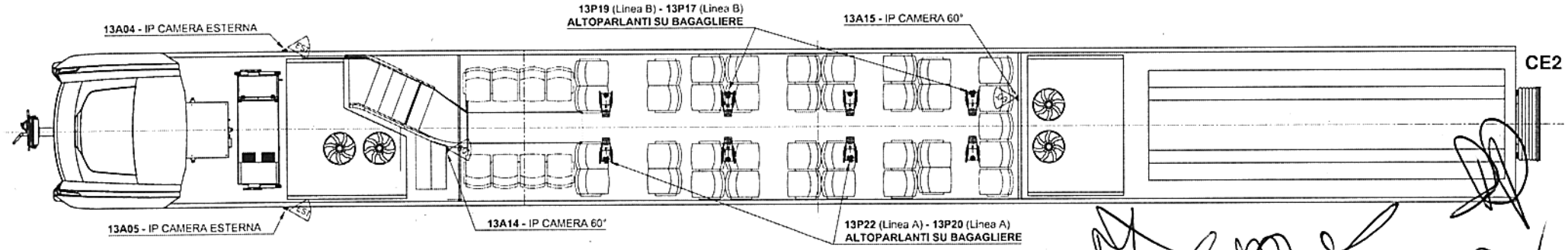
						LAYOUT APPARECCHI CASSA TX CARAVAGGIO ETR 521	
						LAYOUT EQUIPMENTS COACH TX CARAVAGGIO ETR 521	
HITACHI						TL01P01691BF	02	15/23

CASSA DM1
LAYOUT COMPONENTI PIS

SEZ. X-X







COLLEGAMENTI ALTOPARLANTI

LINEA "A" LOCAL - Da CAB-3 a CAB2-X05V a 13P09

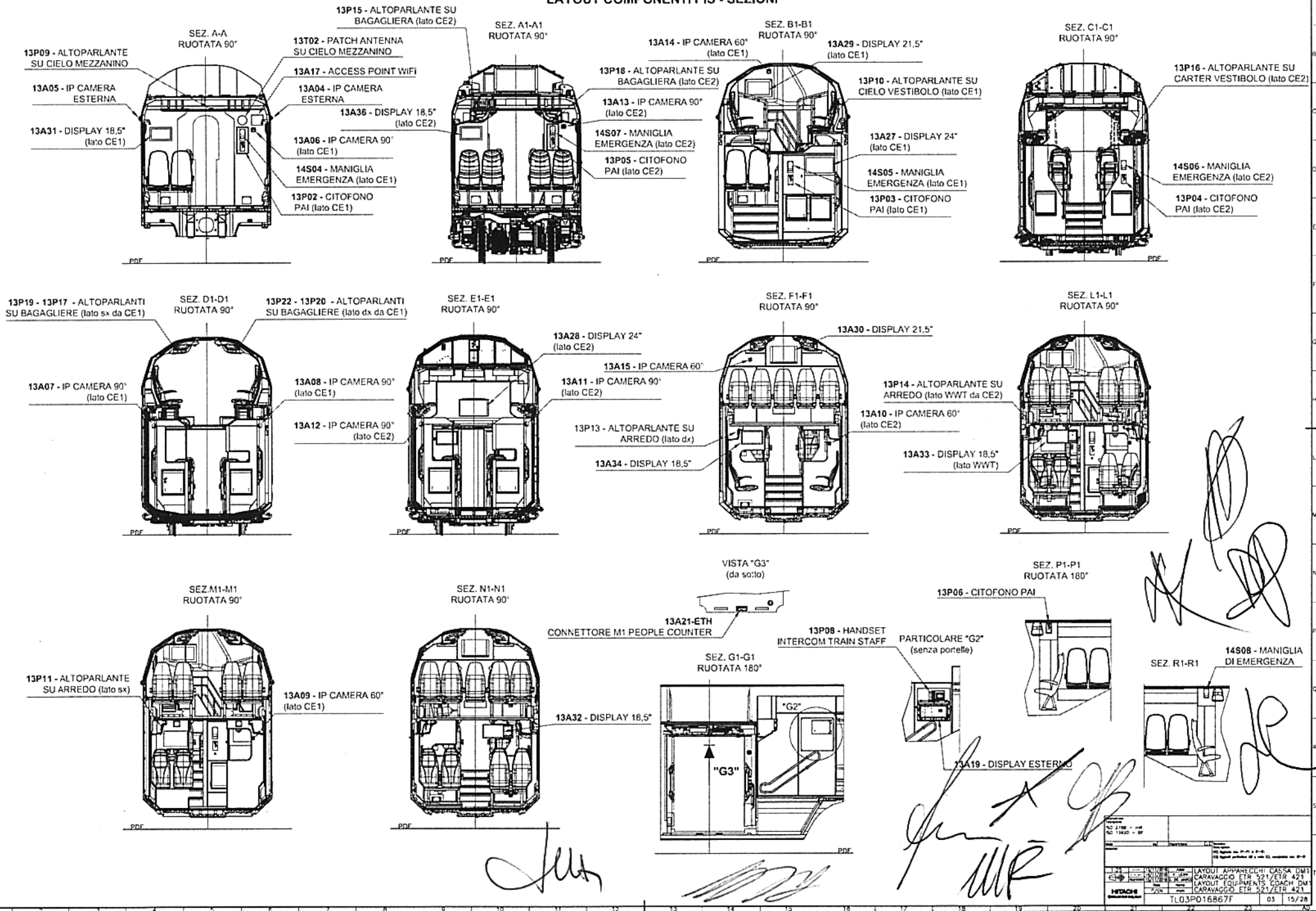
LINEA "A" - Da CAB-3 a CAB-2 a 13P10-13P13
Da CAB-2 a 13P22-13P20
Da CAB-2 a 13P12
Da CAB-2 a TR3, poi sottocassa a TR4 e CAB-4, da questo a 13P18

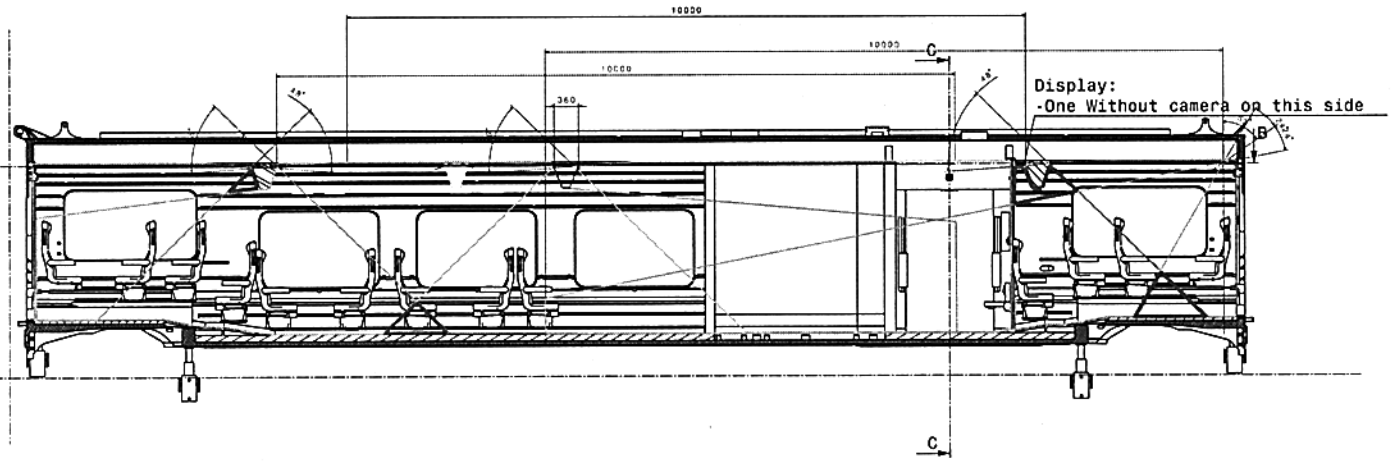
LINEA "B" - Da CE2-X02F sottocassa a TR4 poi CAB-4, quindi 13P15-13P16-13P14
Da CAB-4 e TR4 sottocassa a TR3, poi CAB2 a 13P11
Da CAB-2 a 13P19-13P17

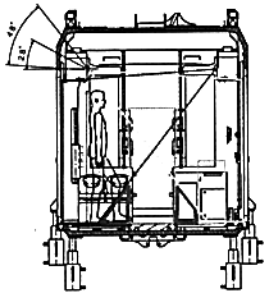
HITACHI	LAYOUT APPARECCHI CASSA DM1 CARAVAGGIO ETR 521/ETR 421 LAYOUT EQUIPMENTS COACH DM1 CARAVAGGIO ETR 521/ETR 421		
	TL03P016867F	03	14/28

CASSA DM1

LAYOUT COMPONENTI PIS - SEZIONI

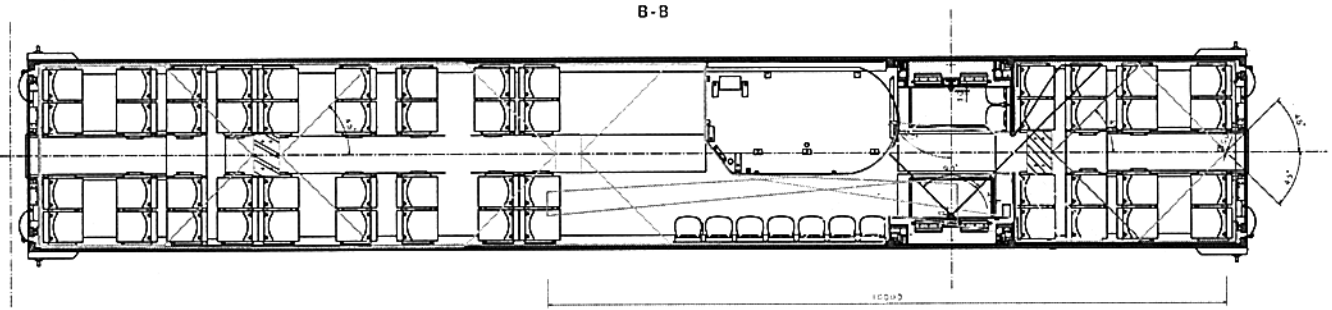






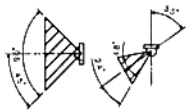
Section view C-C
Scale: 1:25

B-B



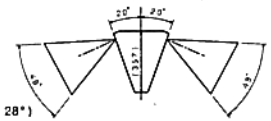
Display camera lens 4.00

articulation camera lens 4.00 (tilt 55°)

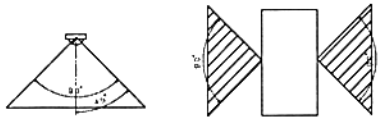


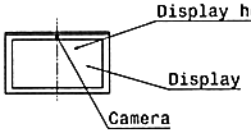
door pillar camera lens 4.00 (tilt 28°)

Side view 48° (vertical angle)



Top view 90° (horizontal angle)





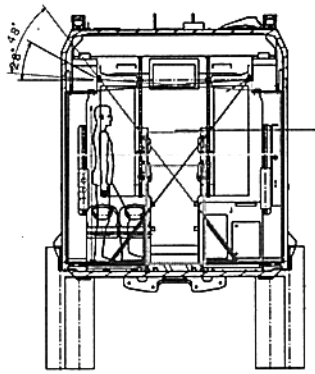
Summary:
Number of display per car: 6
Number of cameras: 8 (4mm lens)
- 2x2 +1 in display holder
- x2 in entrance (vestibule) area
- x1 in articulation (near cab) area

Not cover zone

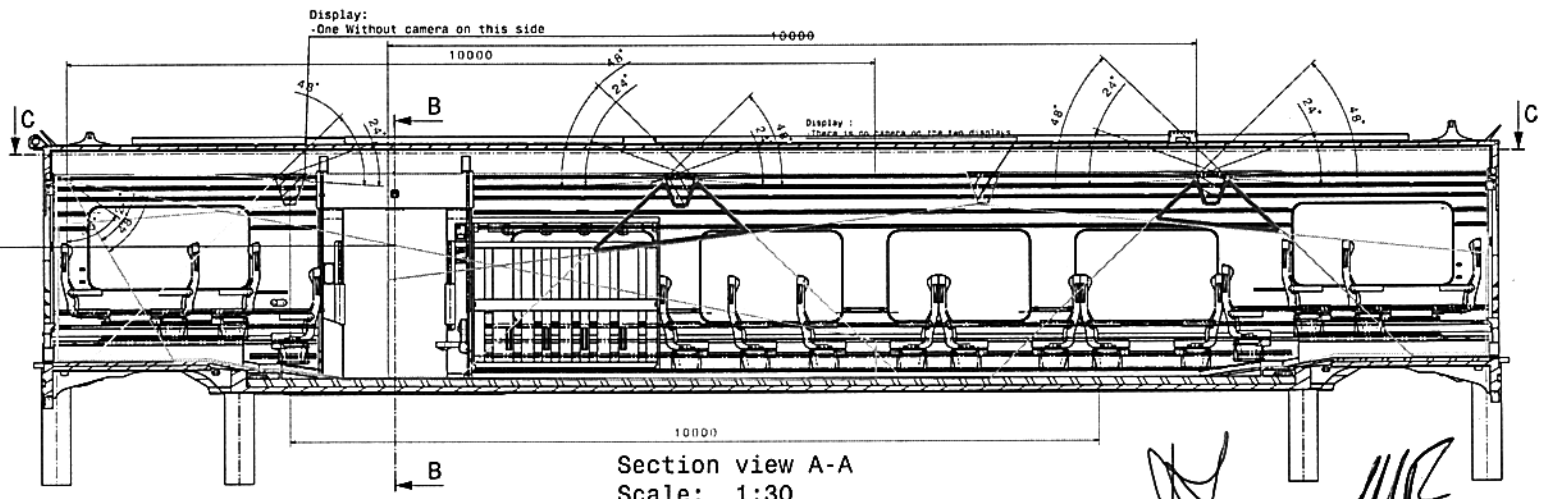
TI - ICL (A2) - CAMERA
Cone of vision study

LAST DR

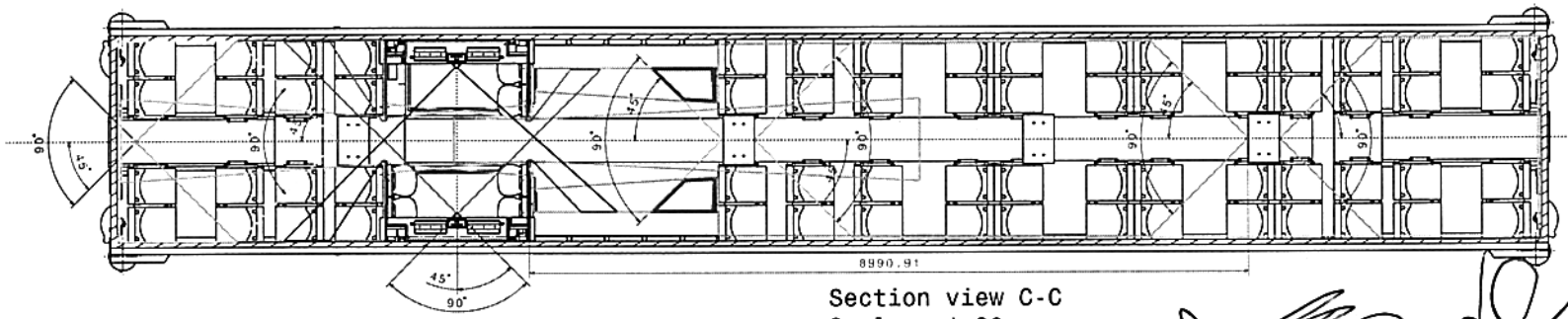
GLD000059661 | A | 1/1



Section view B-B
Scale: 1:30

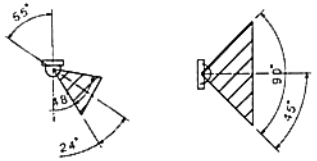


Section view A-A
Scale: 1:30

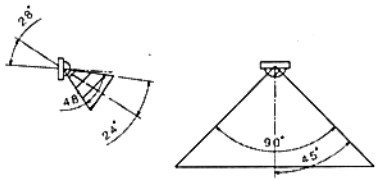


Section view C-C
Scale: 1:30

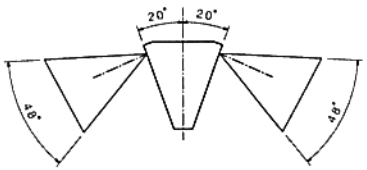
articulation camera lens 4.00 (tilt 55°)



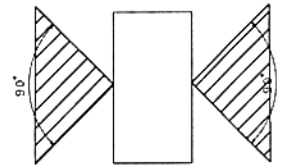
door pillar camera lens 4.00 (tilt 28°)



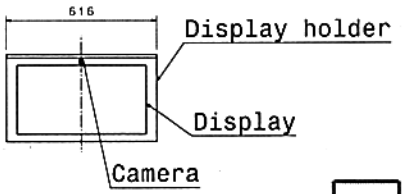
Side view 48° (vertical angle)



Top view 90° (horizontal angle)



Display camera lens 4.00



Not covered zone

TI - IC (A3) - CAMERA
Cone of vision study

Summary:

Number of display per car: 8
Number of cameras: 8 (4mm lens)
- 2x2+1 in display holder
- x2 in entrance (vestibule) area
- x1 in articulation (near cab) area

OBSERVATION INFORMATION
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WORKING

Technical Application

N° original drawing	N° replacement drawing	N° Replaced Drawing

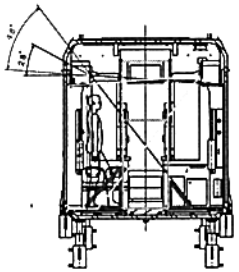
1:1	Drawn	2017.07.18 E.TLAUBA
	Checked	
	Approved	
	Date	Name

ALSTOM Transport

LAST DR

/ GLD0000596799 --A 1/1

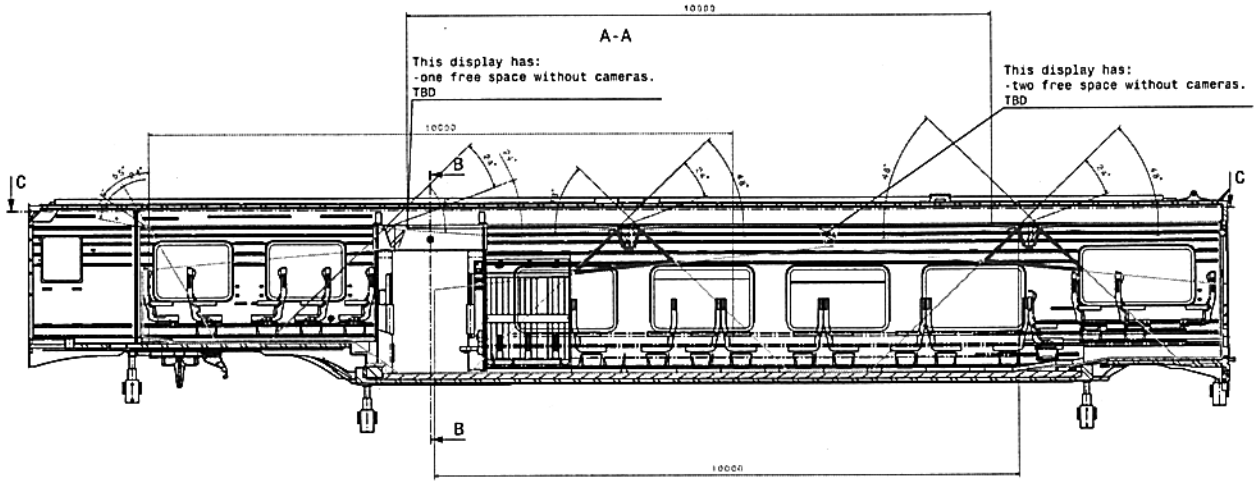
B-B



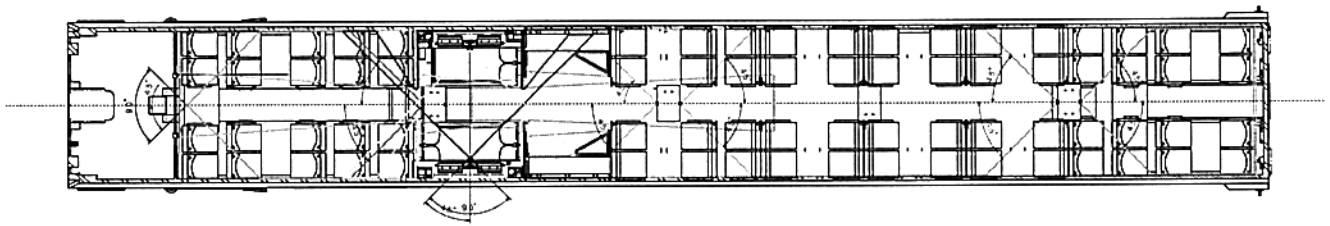
A-A

This display has:
-one free space without cameras.
TBD

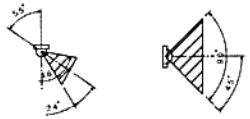
This display has:
-two free space without cameras.
TBD



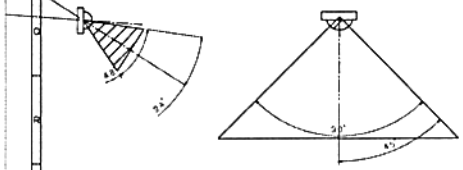
C-C



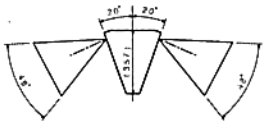
articulation camera lens 4.00 (tilt 55°)



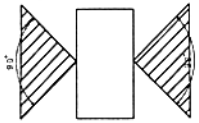
door pillar camera lens 4.00 (tilt 28°)



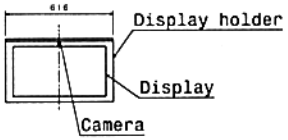
Side view 48° (vertical angle)



Top view 90° (horizontal angle)



Display camera lens 4.00



Not cover zone

TI - DCL (A1 + A4) CAMERA
Cone of vision study

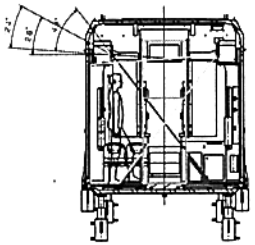
Summary:
Number of display per car: 8
Number of cameras: 8 (4 mm lens)
- 2x2+1 in display holder
- x2 in entrance (vestibule) area
- x1 in articulation (near cab) area

LAST DR

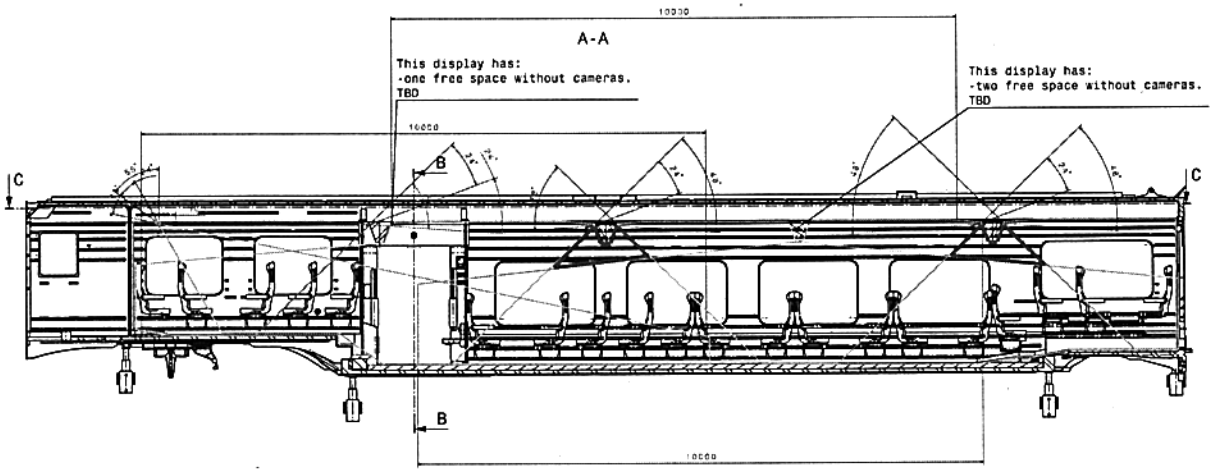
ALSTOM

GL00000623343 | A | 1:1

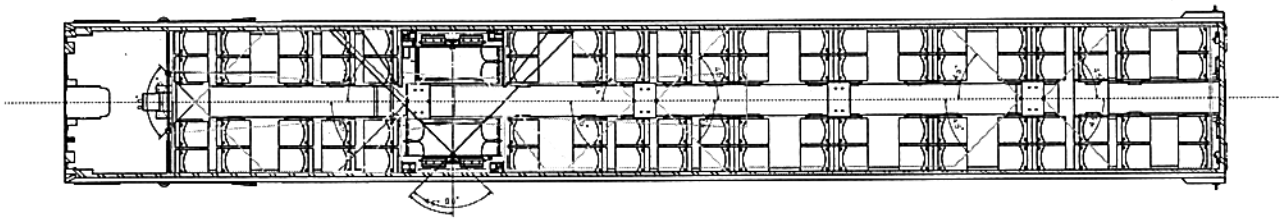
B-B



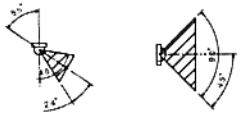
A-A



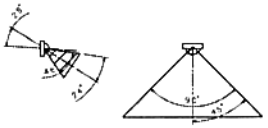
C-C



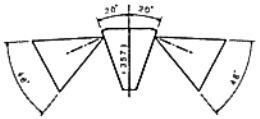
articulation camera lens 4.00 (tilt 55°)



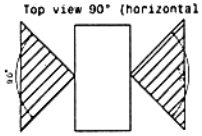
door pillar camera lens 4.00 (tilt 28°)



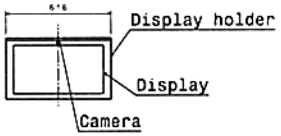
Side view 48° (vertical angle)



Top view 90° (horizontal angle)



Display camera lens 4.00



Not cover zone

TI - DCL (A1 + A4) CAMERA
Cone of vision study

Summary:
Number of display per car: 8
Number of cameras: 8 (4 mm lens)
- 2x2+1 in display holder
- x2 in entrance (vestibule) area
- x1 in articulation (near cab) area

LAST DR

GLD0000596213 | A | 1/1