



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
delle Infrastrutture
e dei Trasporti



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Regione
Lombardia



PROVINCIA
DI BERGAMO



BERGAMO
CITTÀ DEI MILLE
COMUNE DI BERGAMO

Finanziato dall'Unione Europea - Next Generation EU - Transporto rapido di massa - Misura M2C2 - 4.2 del PNRR

SOGGETTO ATTUATORE DI PRIMO LIVELLO



COMUNE DI BERGAMO

Piazza Giacomo Matteotti, 27 - 24122 Bergamo (BG)

SOGGETTO ATTUATORE DI SECONDO LIVELLO



ATB Mobilità S.p.A.

Via Gleno, 13 - 24125 Bergamo (BG)

REALIZZAZIONE DI UN SISTEMA E-BRT TRA I COMUNI DI BERGAMO, DALMINE E VERDELLINO

PROGETTO DEFINITIVO

CUP: H11B21006730001 - CIG: 9562909A25

APPALTATORE



Vitali S.p.A.
via Lombardia 2/A
20068 - Peschiera Borromeo (MI)

Mandanti:



Artelia Sas

Rue Simone Veil 16
93400 Saint-Ouen-sur-Seine
(France)



ERREGI

Piazza del Viminale 14
00184 Roma (RM)



Studio Carrara

Via T. Tasso 89
24121 - Bergamo (BG)



pide

Via Fosse 13
36063 Marostica (VI)



Pini

Via Cavour 2
22074 - Lomazzo (CO)

PROGETTISTI

Capogruppo/mandataria:



Artelia Italia S.p.A.
Piazza G. Marconi 25
00144 - Roma (RM)

IL PROGETTISTA

Ing. Mauro Massi

IL PROGETTISTA E RESPONSABILE DELL'INTEGRAZIONE

Ing. Marco Gonella

IL RESPONSABILE UNICO DEL PROCEDIMENTO

Ing. C. Rita Donato

A	Ottobre 2023	EMISSIONE	Alessandro Marieni	Alessandro Bizioli	Marco Gonella
REV	DATA	TIPO DI EMISSIONE	REDATTO	CONTROLLATO	APPROVATO/AUTORIZZATO

13 SERVIZI INTERFERENTI

Sezioni tipologiche risoluzioni delle interferenze

IDENTIFICAZIONE ELABORATO												SCALA:								
Comessa	Lotto	Fase	Tratto	Tipo doc.	Disciplina / WBS 1-2				Progressivo doc	Revisione	...									
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DATA:
OTTOBRE 2023

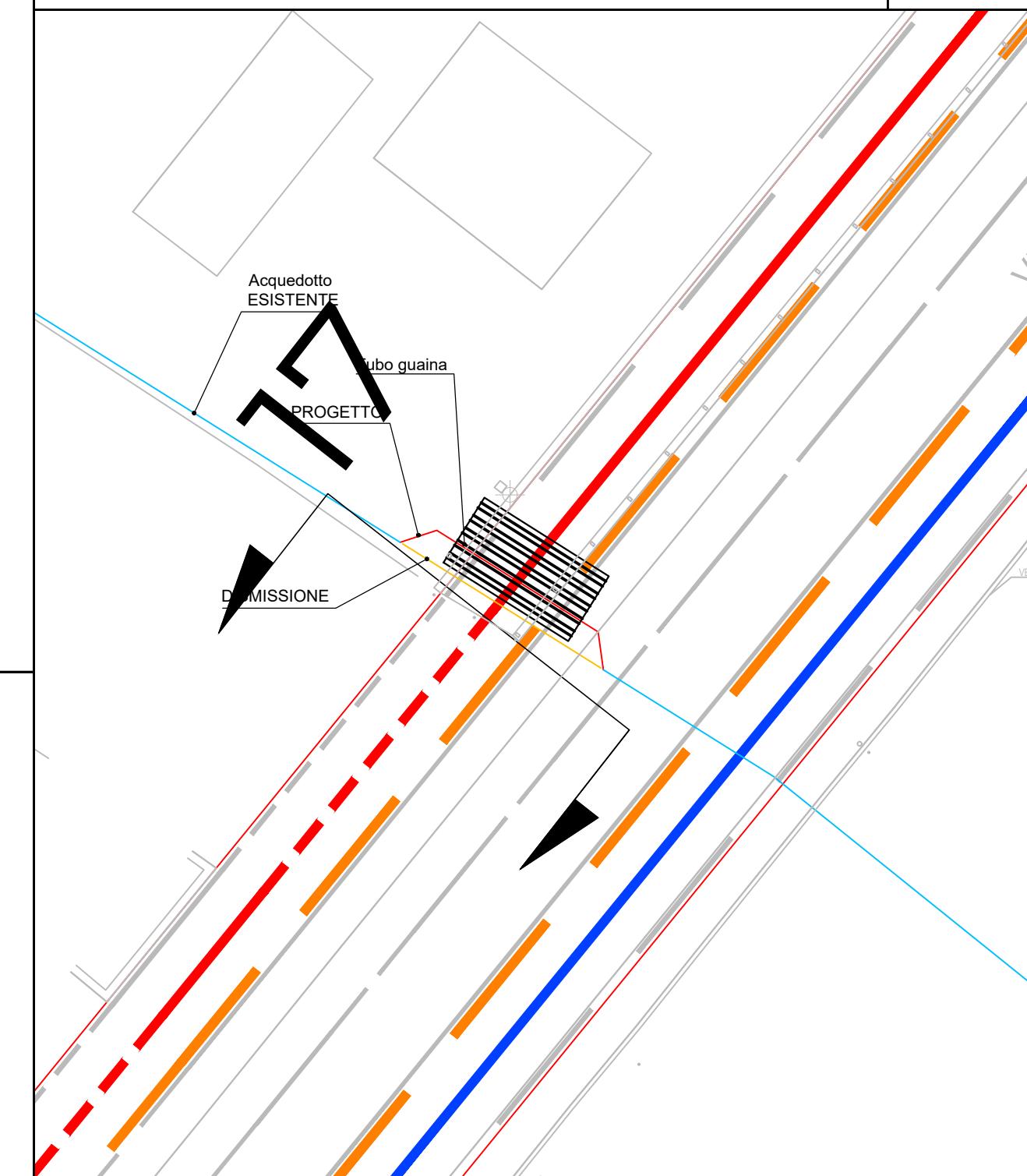
STATO DI FATTO

SCALA 1:100



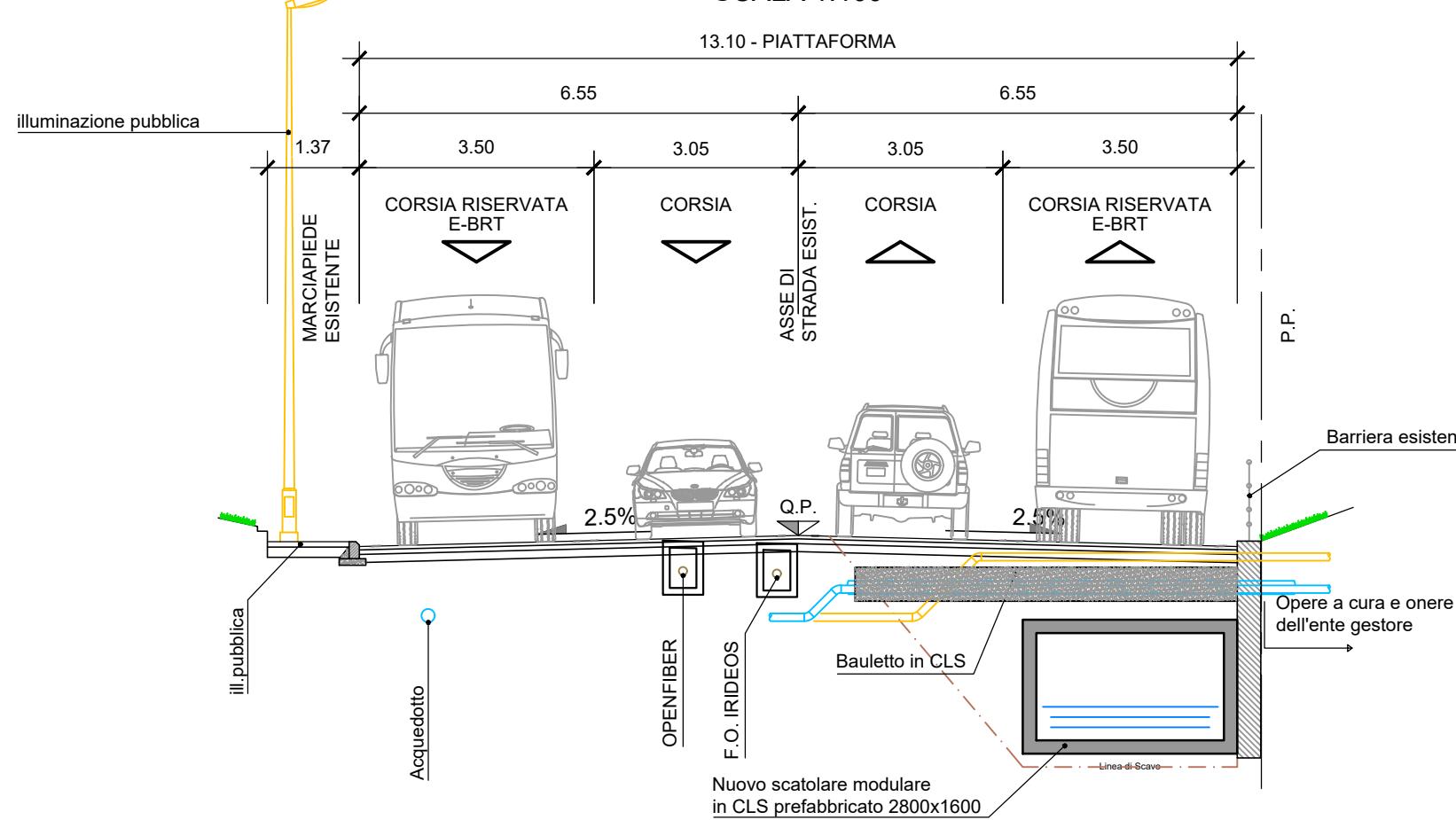
ACQUEDOTTO IN ATTRAVERSAMENTO PLANIMETRIA DI PROGETTO

TAV.
ACQ01



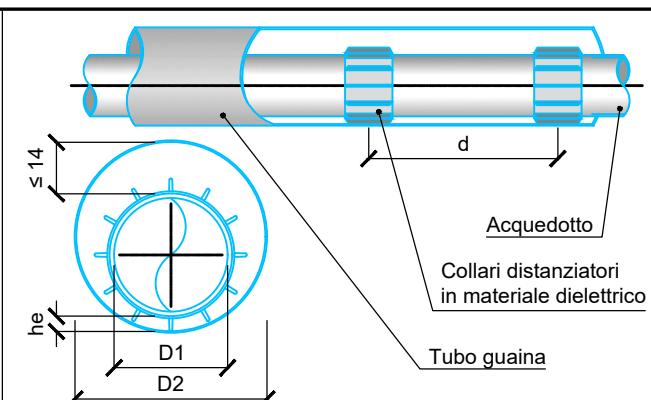
PROGETTO

SCALA 1:100



ACQUEDOTTO - DIMENSIONI CONDOTTE IN ACCIAIO

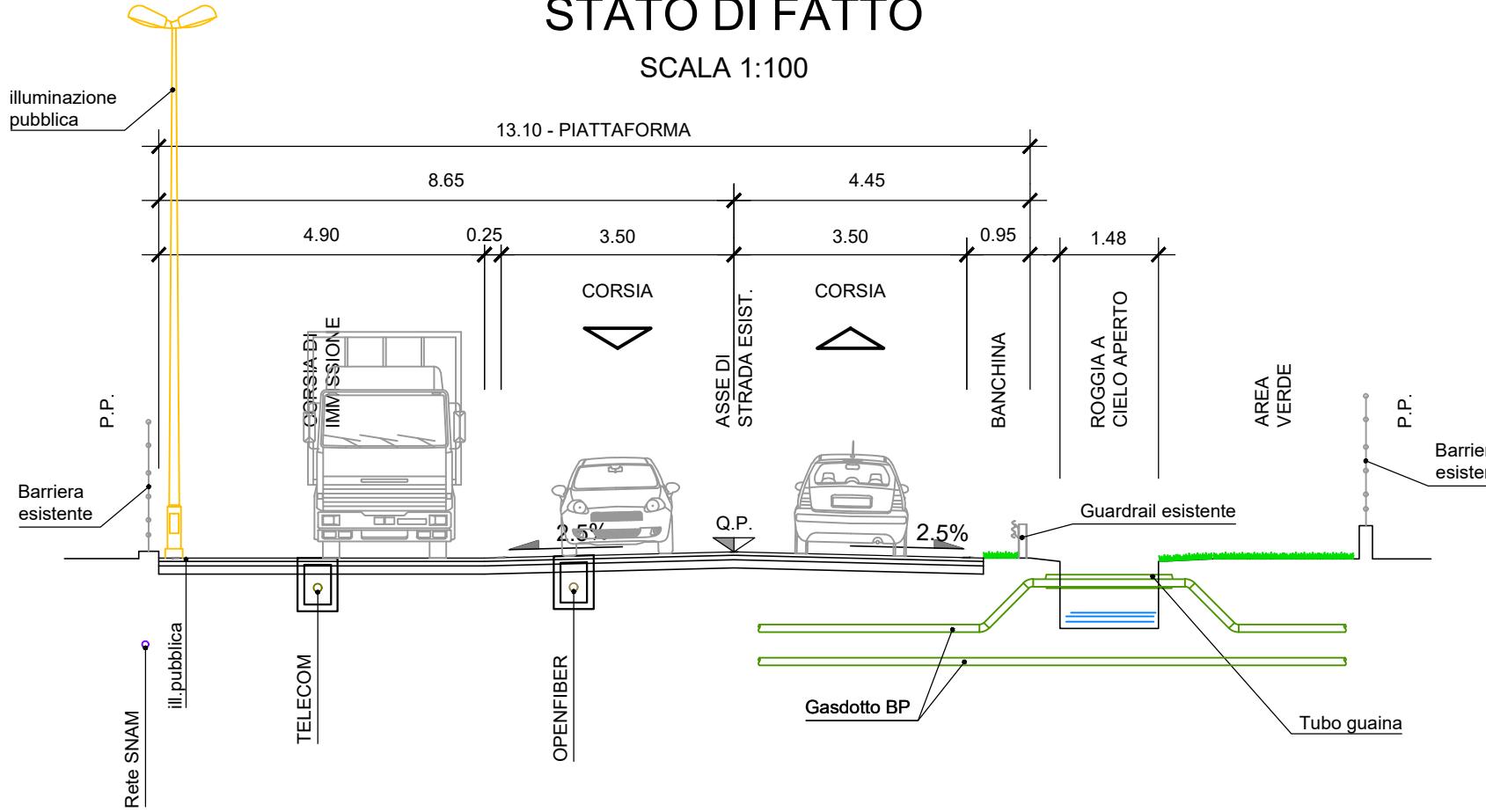
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50	125	2	20
65	125	2	20
80	150	2	20
100	200	2	20
125	200	2,5	25
150	250	2,5	25
200	300	2,5	25
250	400	2	25
300	400	2	25
400	500	2	25
500	600	2	25
600	700	2	25
700	800	1,5	25
800	1000	1,5	25



STATO DI FATTO

SCALA 1:100

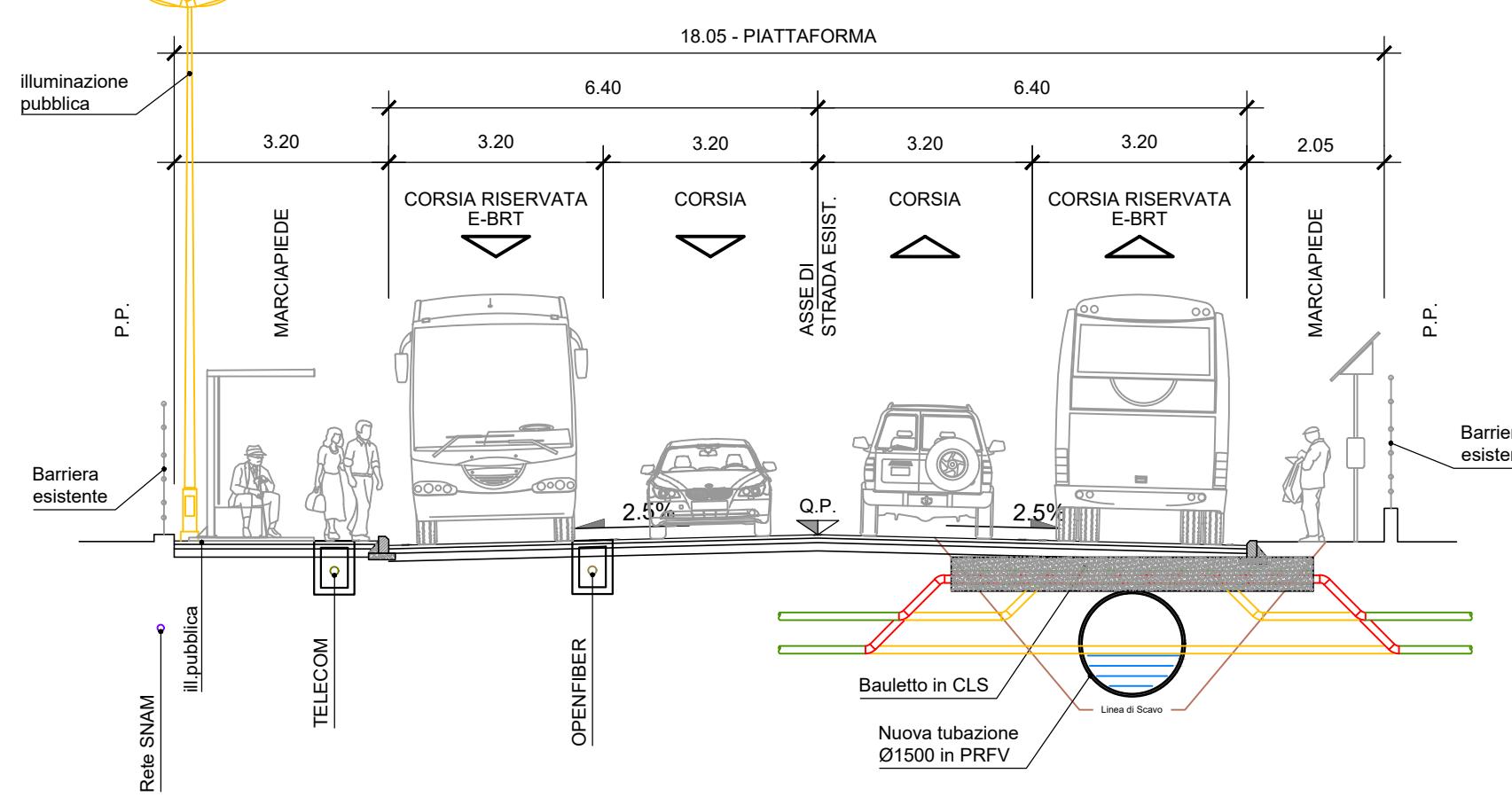
13.10 - PIATTAFORMA



PROGETTO

SCALA 1:100

18.05 - PIATTAFORMA

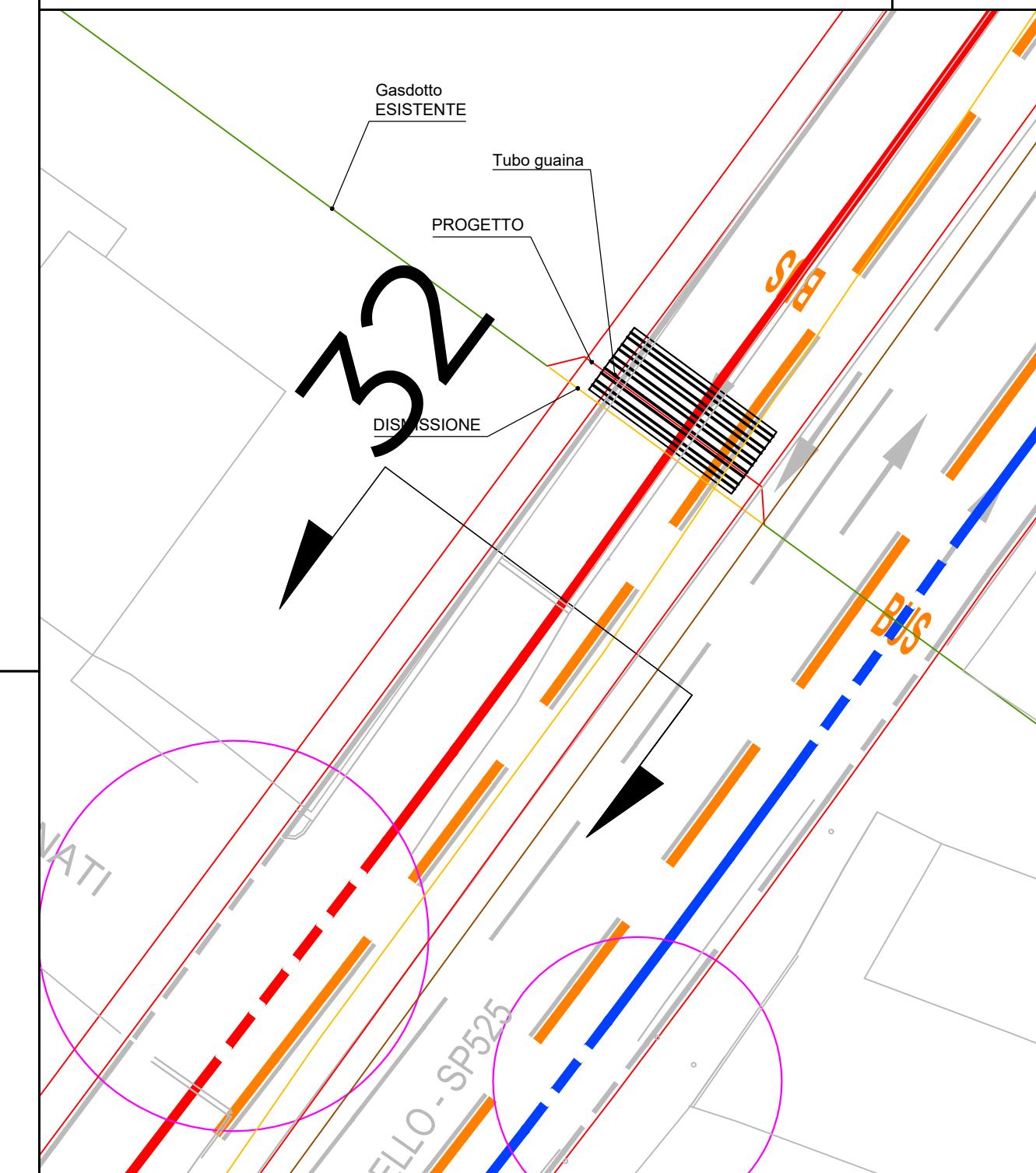


GASDOTTO IN ATTRaversamento

PLANIMETRIA DI PROGETTO

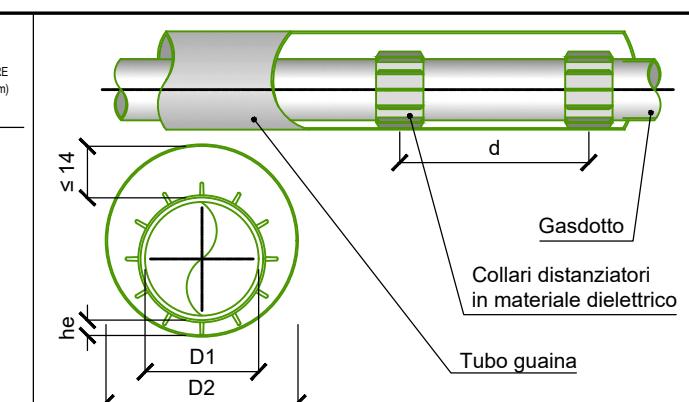
TAV.

GAS01



GASDOTTO - DIMENSIONI CONDOTTE IN ACCIAIO

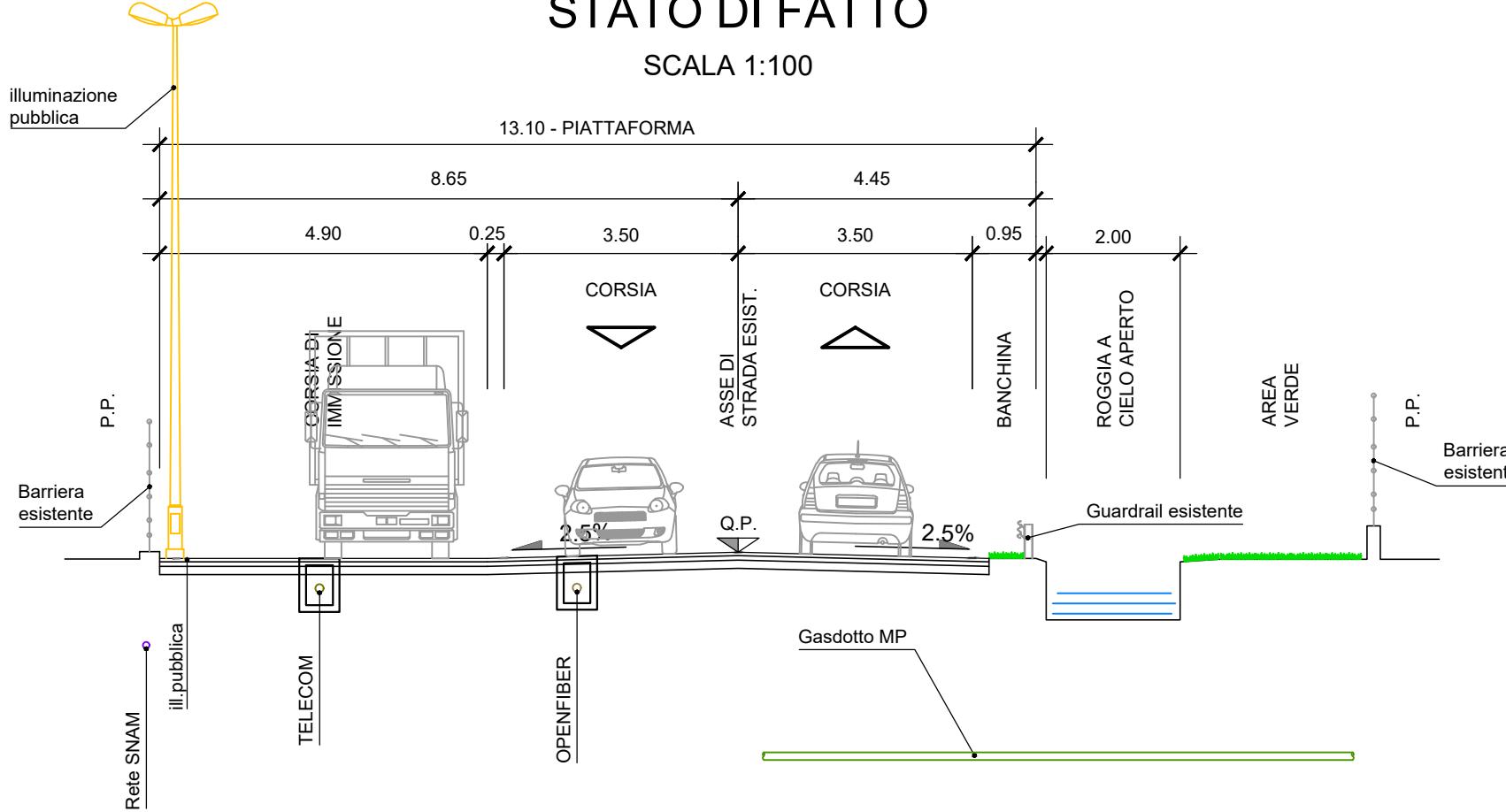
DN CONDOTTA IN ACCIAIO (D1)	DN TUBO GUINA IN ACCIAIO (D2)	DISTANZA MASSIMA TRA COLLARI DISTANZIATORI (m) (d)	SPESORE COLLARE DISTANZIATORE (mm) (he)
50	125	2	20
65	125	2	20
80	150	2	20
100	200	2	20
125	200	2,5	25
150	250	2,5	25
200	300	2,5	25
250	400	2	25
300	400	2	25
400	500	2	25
500	600	2	25
600	700	2	25
700	800	1,5	25
800	1000	1,5	25



STATO DI FATTO

SCALA 1:100

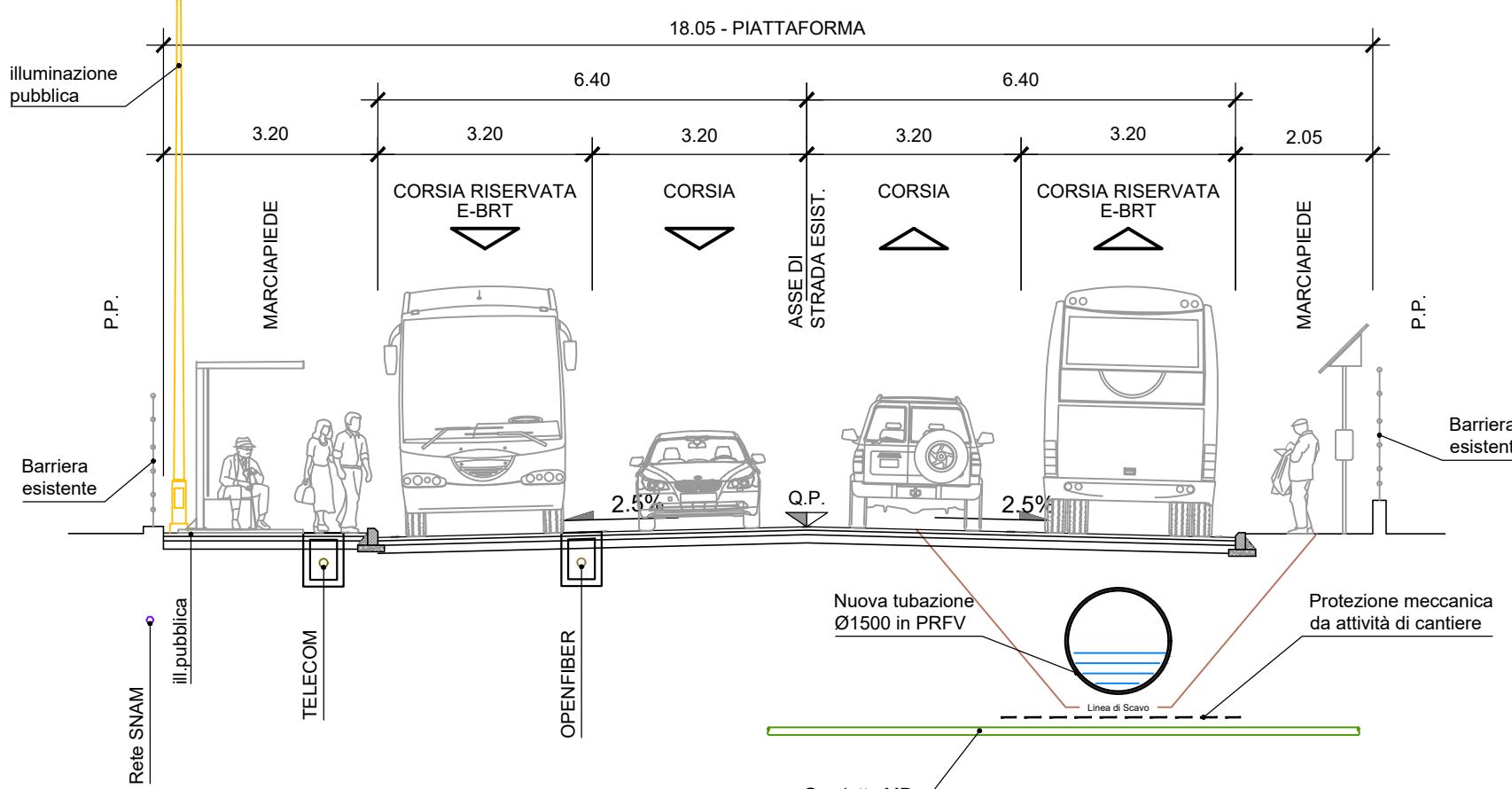
13.10 - PIATTAFORMA



PROGETTO

SCALA 1:100

18.05 - PIATTAFORMA

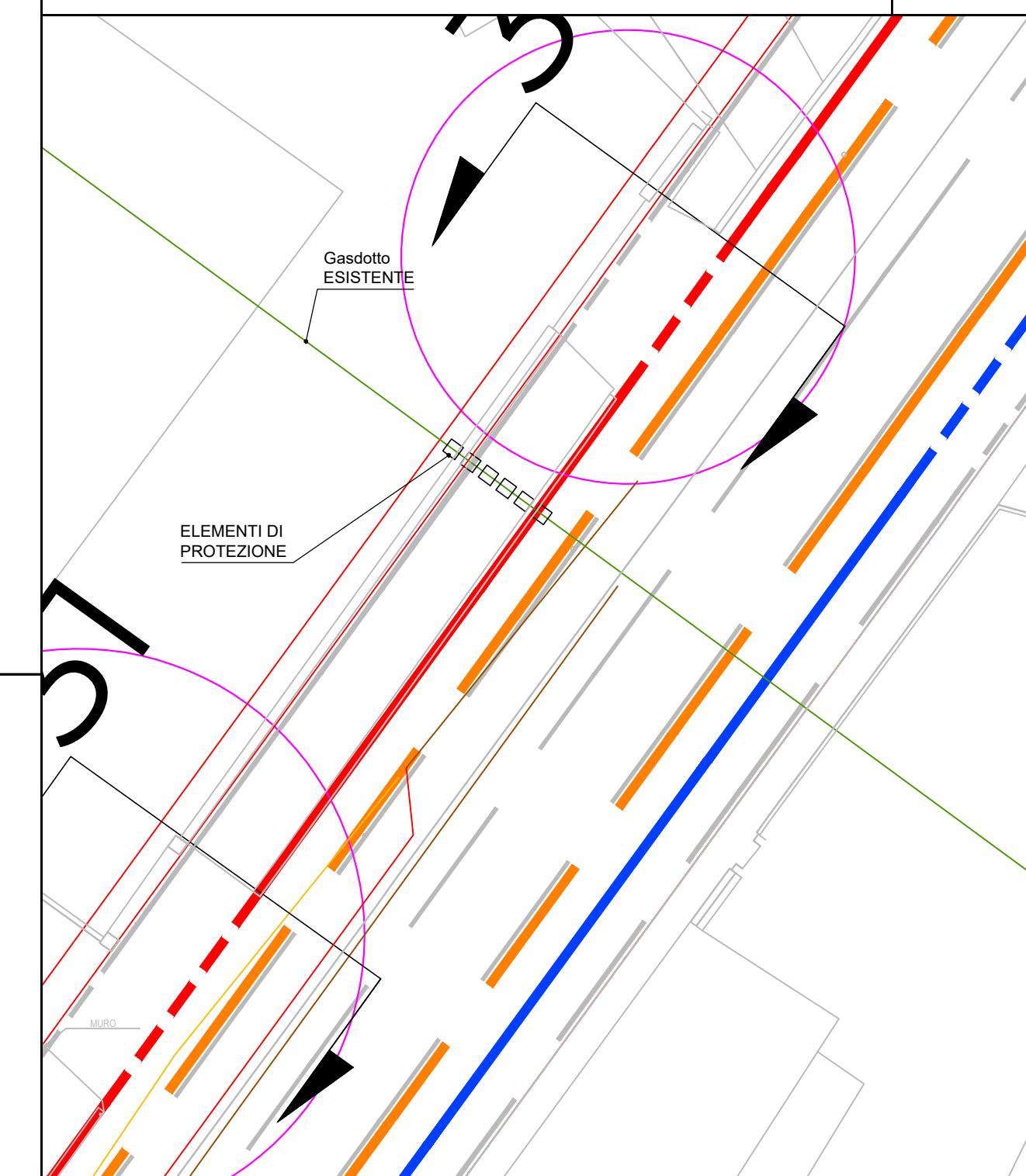


GASDOTTO IN ATTRaversamento

PLANIMETRIA DI PROGETTO

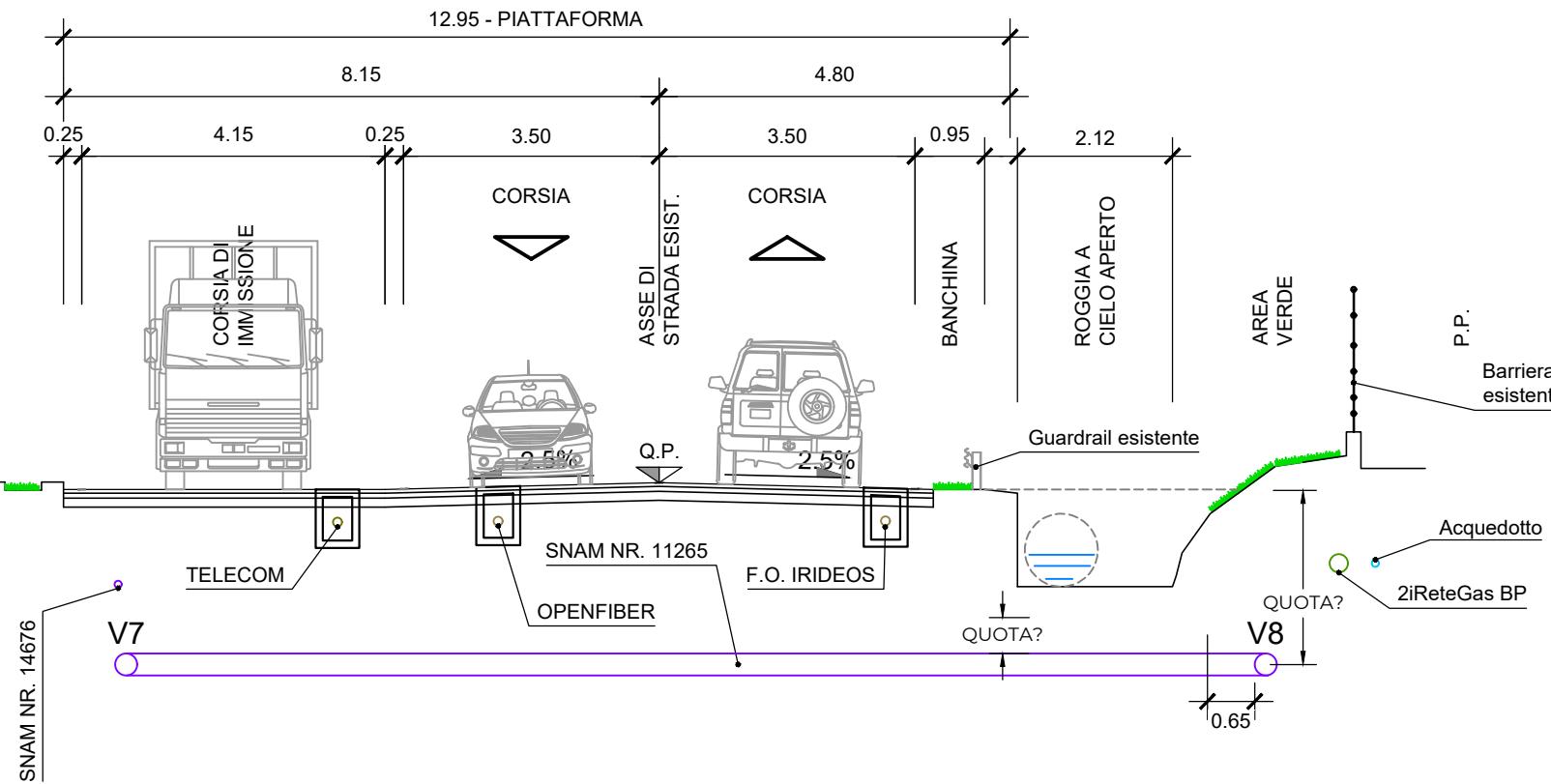
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GAS02



STATO DI FATTO

SCALA 1:100

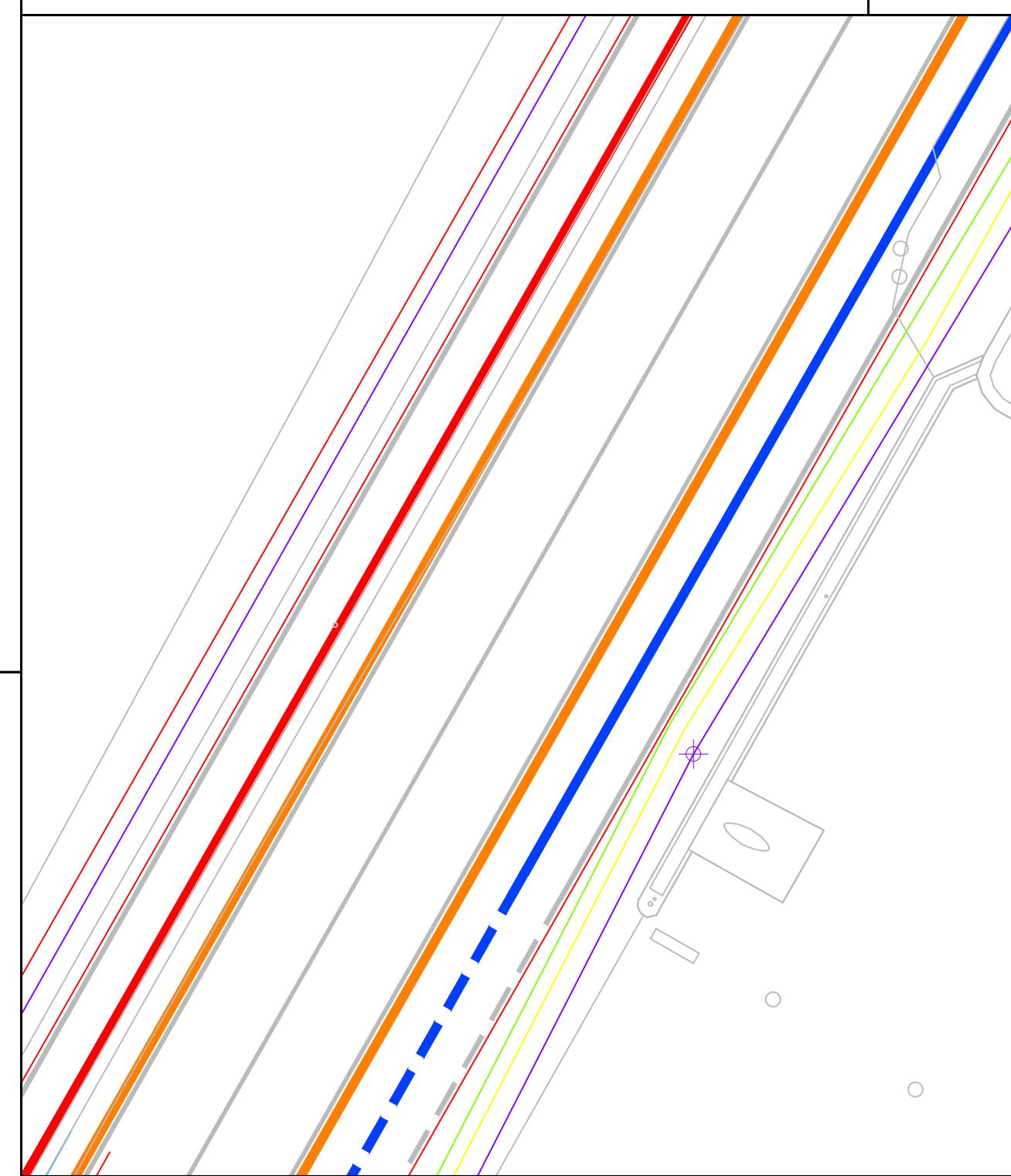


INTERFERENZA CON RETE SNAM

PLANIMETRIA DI PROGETTO

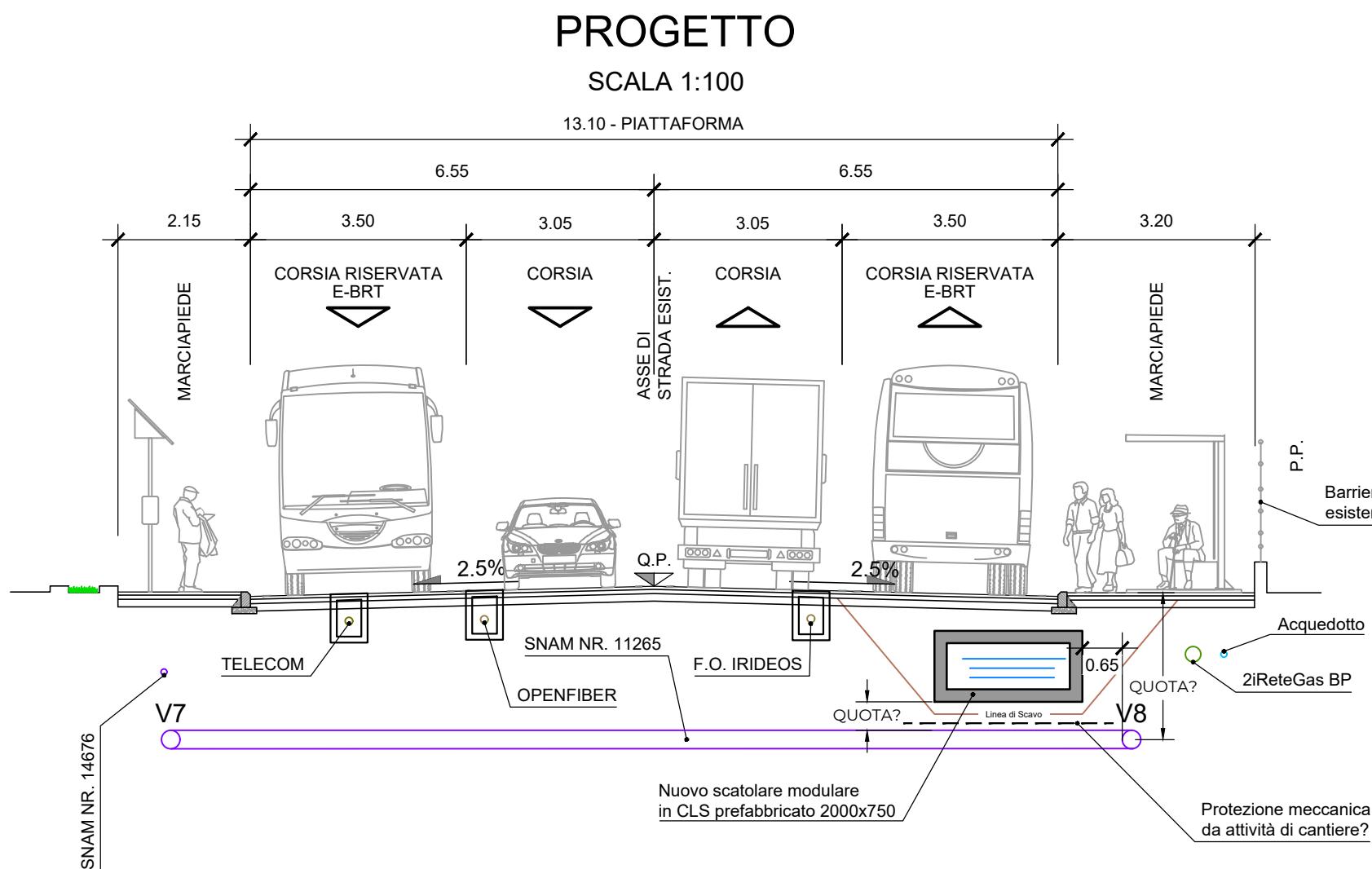
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Snam



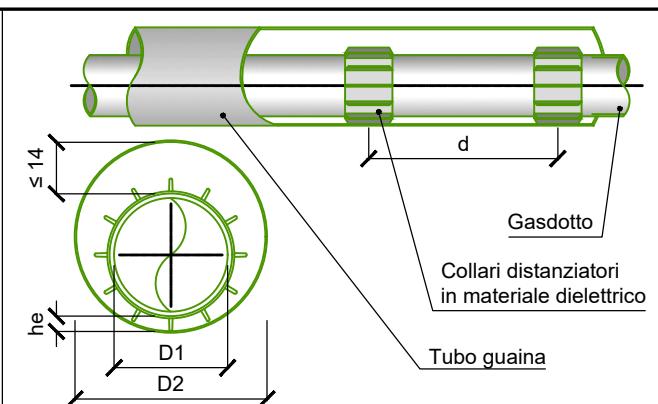
PROGETTO

SCALA 1:100



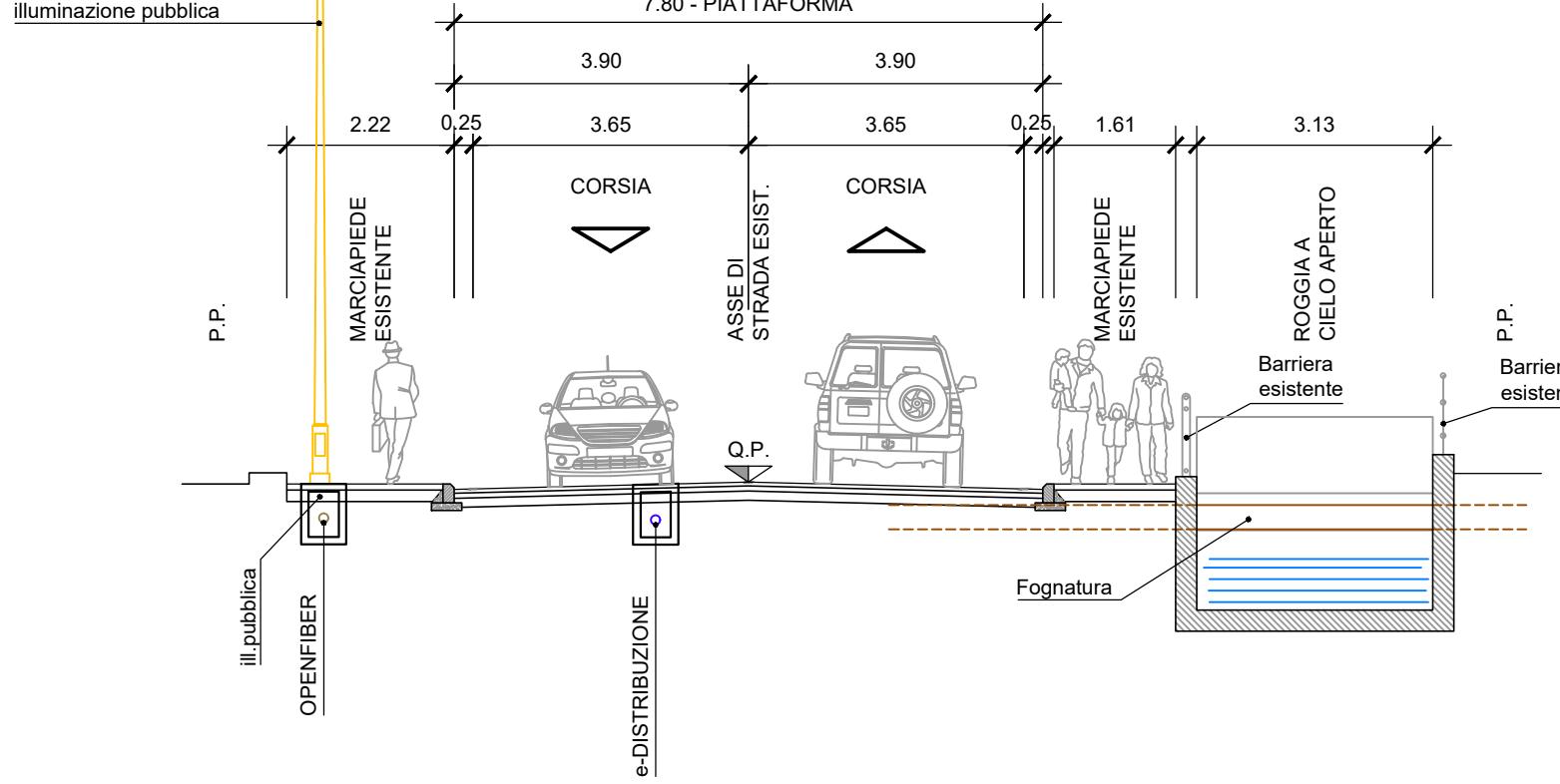
GASDOTTO - DIMENSIONI CONDOTTE IN ACCIAIO

DN CONDOTTA IN ACCIAIO (D1)	DN TUBO GUANA IN ACCIAIO (D2)	DISTANZA MASSIMA TRA COLLARI DISTANZIATORI (m)	SPESORE COLLARE DISTANZIATORE (mm)
50	125	2	20
65	125	2	20
80	150	2	20
100	200	2	20
125	200	2,5	25
150	250	2,5	25
200	300	2,5	25
250	400	2	25
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600	700	2	25
700	800	1,5	25
800	1000	1,5	25



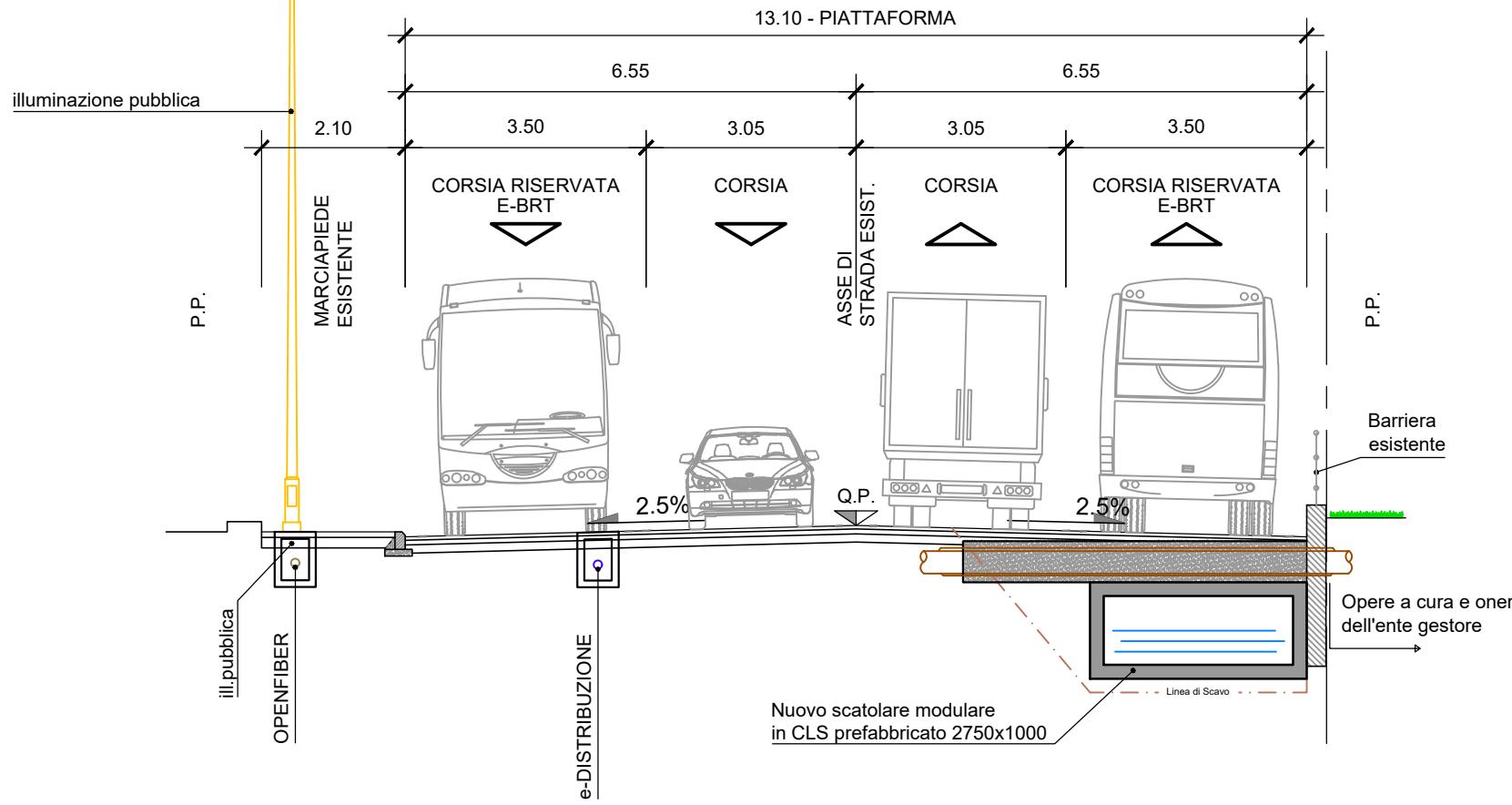
STATO DI FATTO

SCALA 1:100



PROGETTO

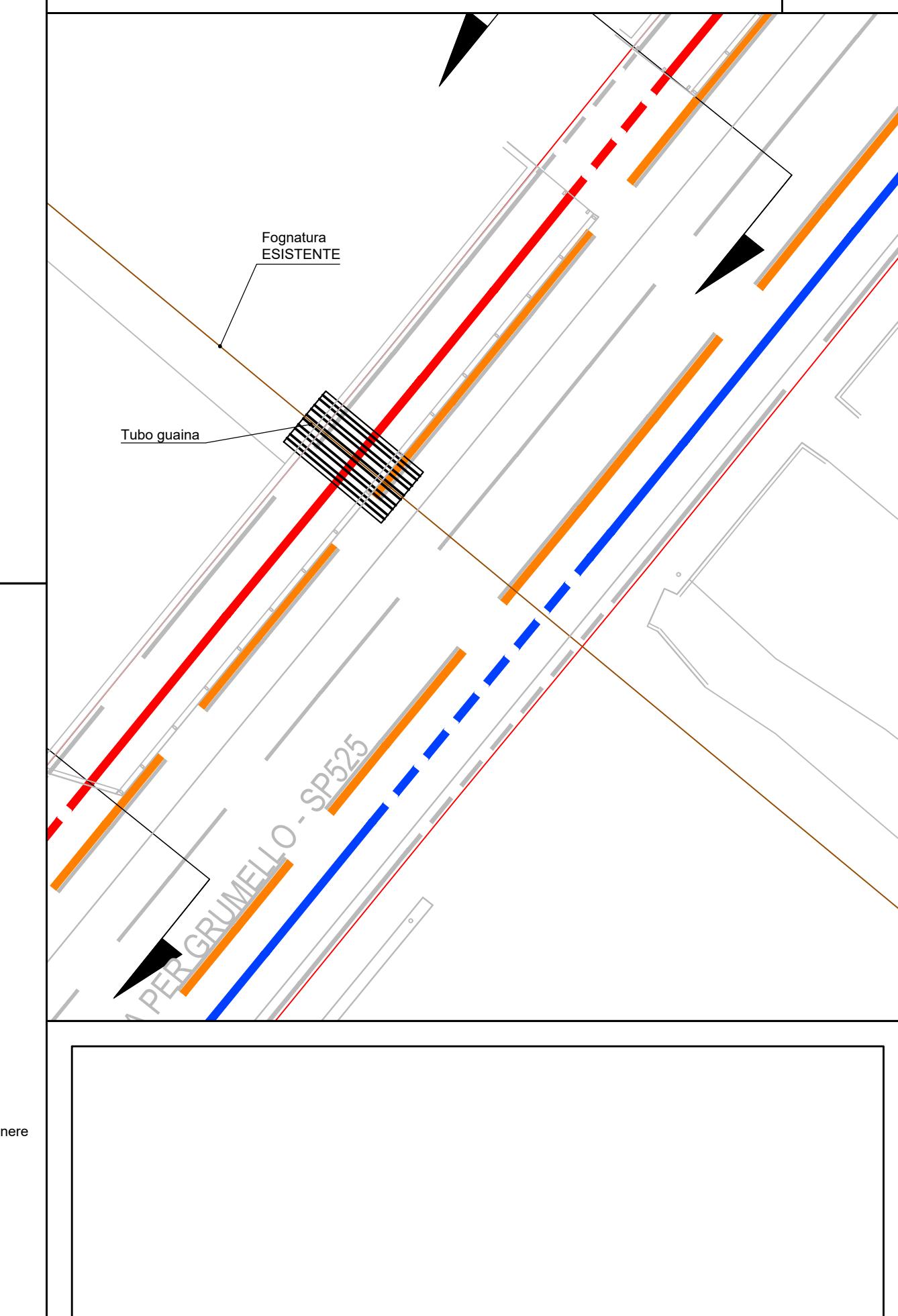
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FOGNATURA IN ATTRAVERSAMENTO PLANIMETRIA DI PROGETTO

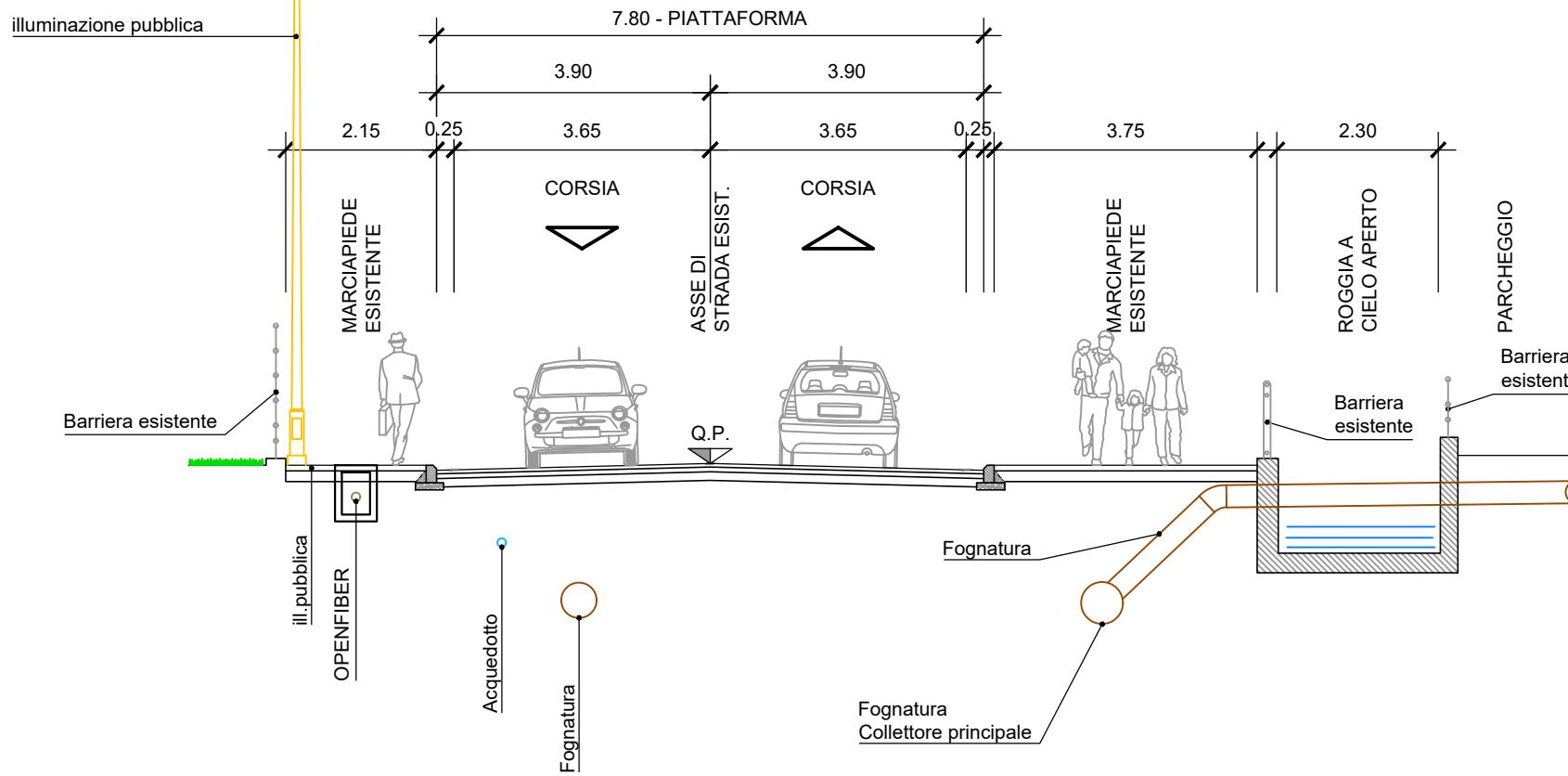
TAV.

FOG01



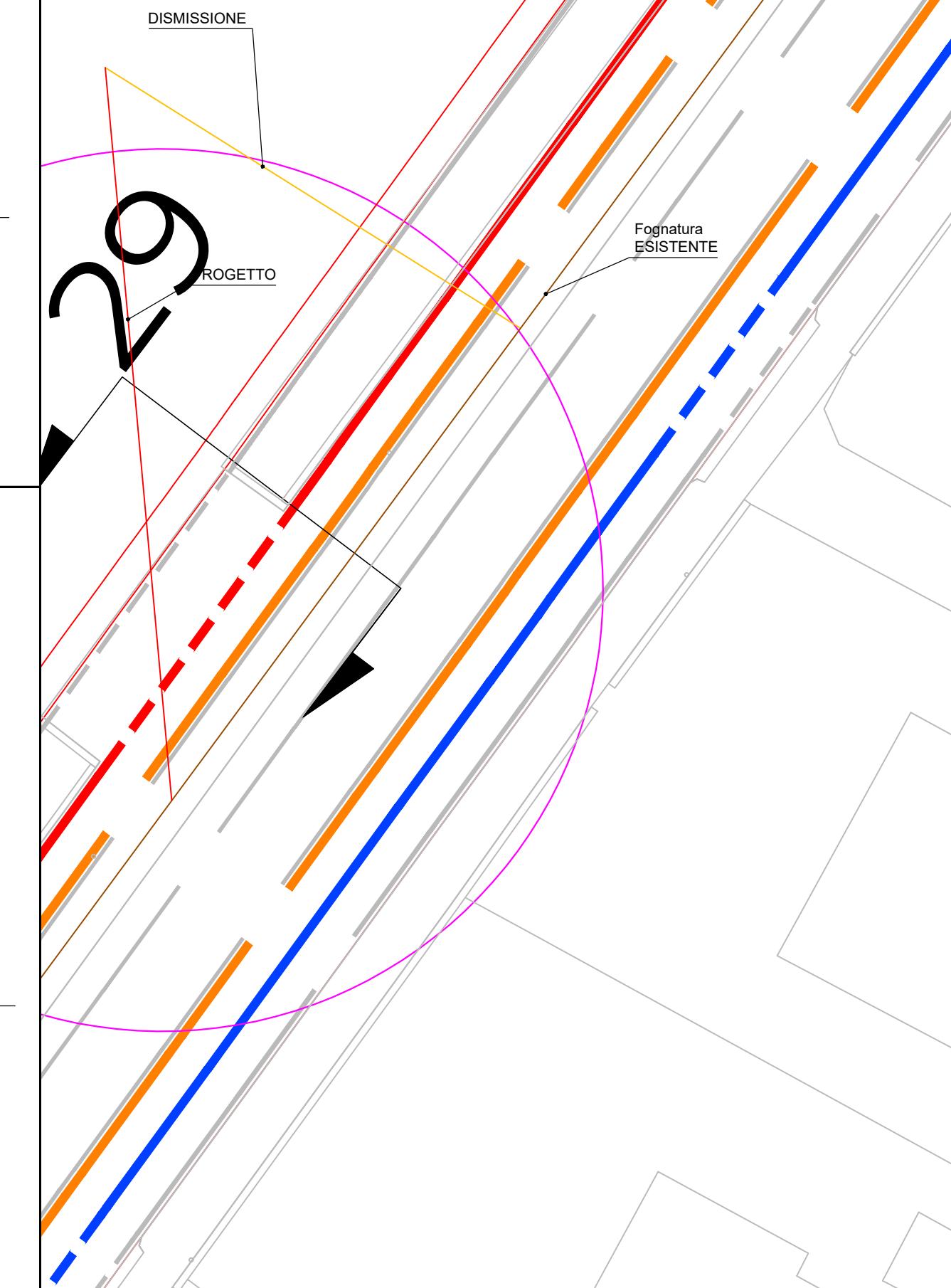
STATO DI FATTO

SCALA 1:100



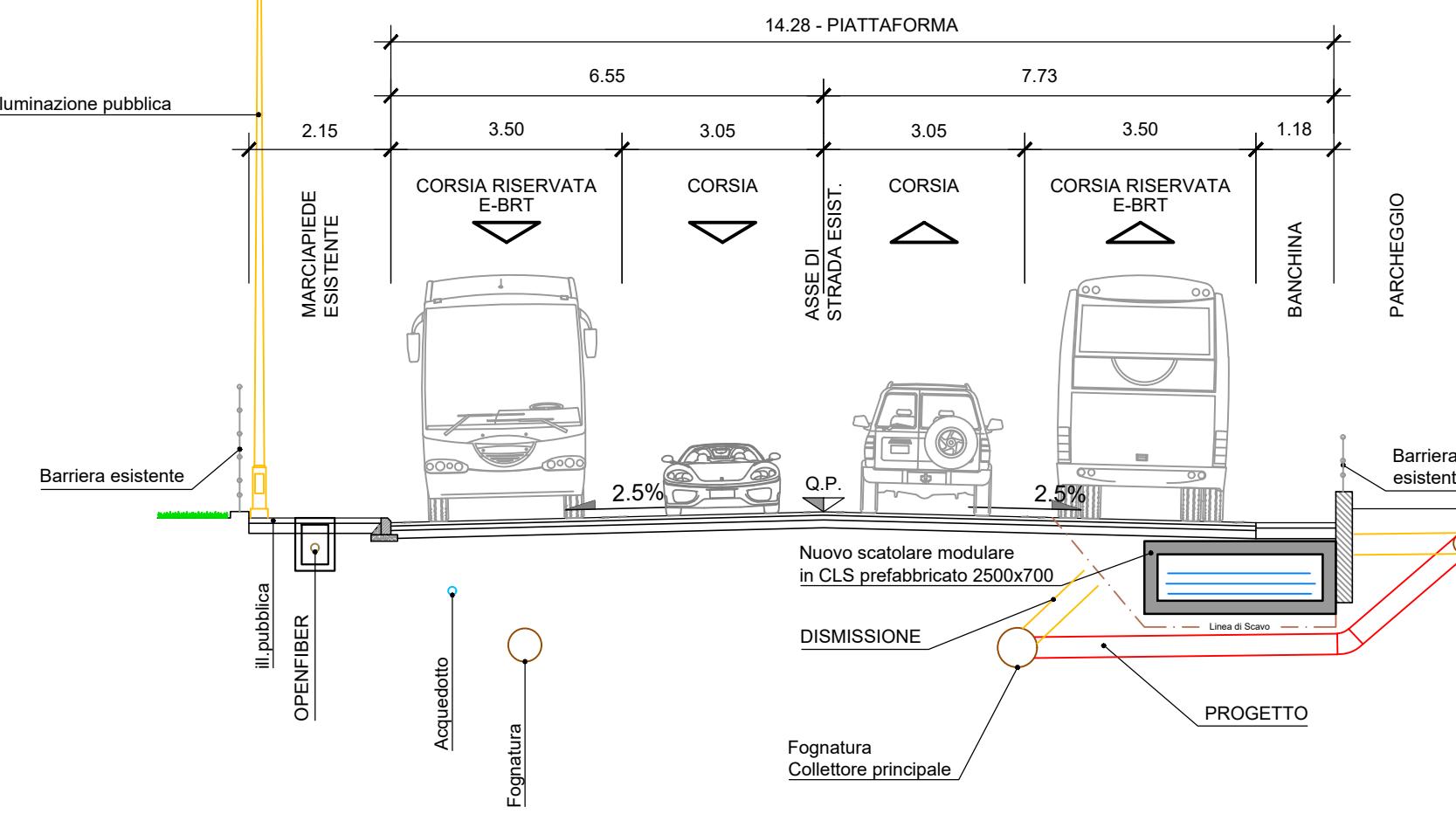
FOGNATURA IN ATTRAVERSAMENTO PLANIMETRIA DI PROGETTO

TAV.
FOG02



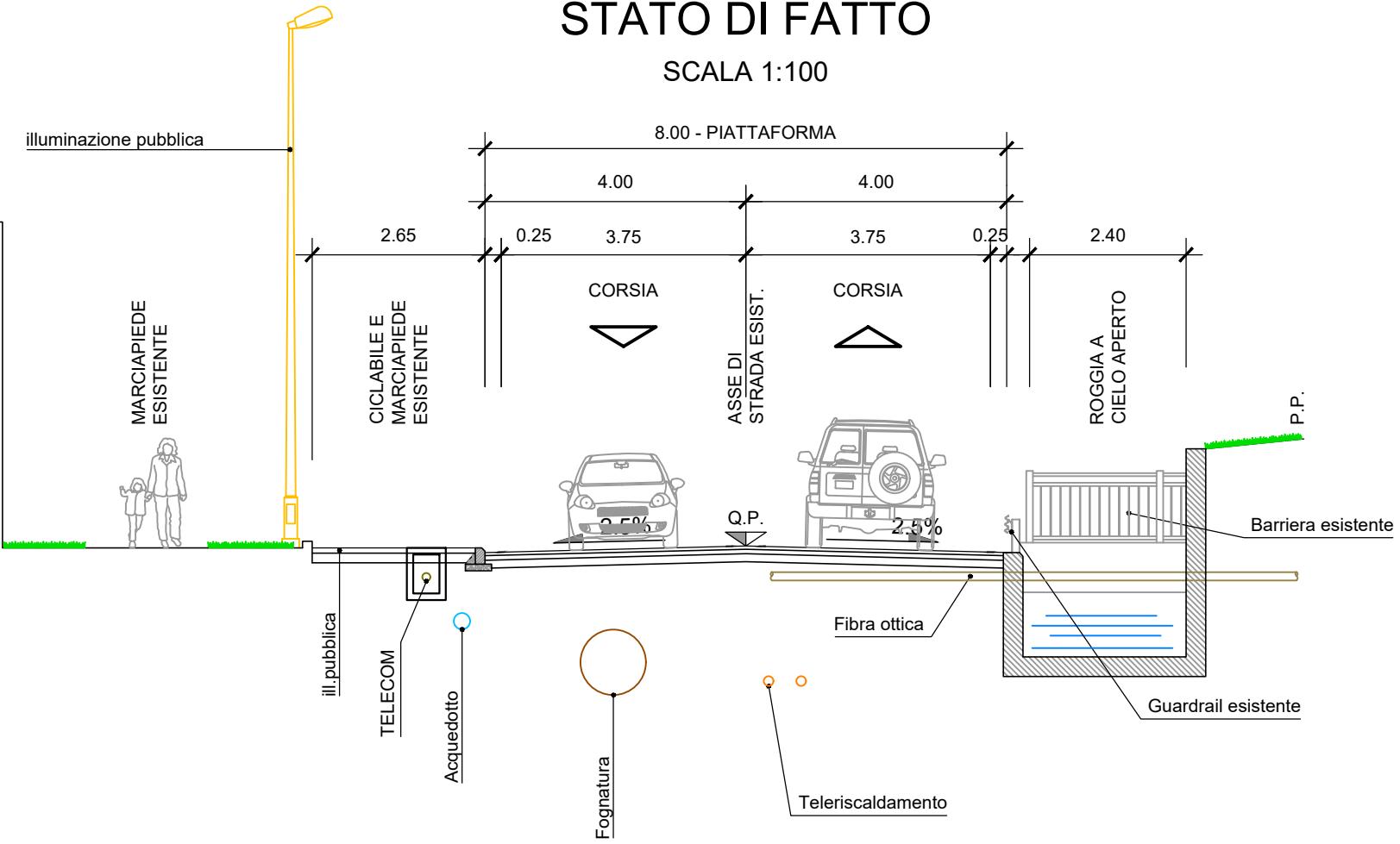
PROGETTO

SCALA 1:100



STATO DI FATTO

SCALA 1:100

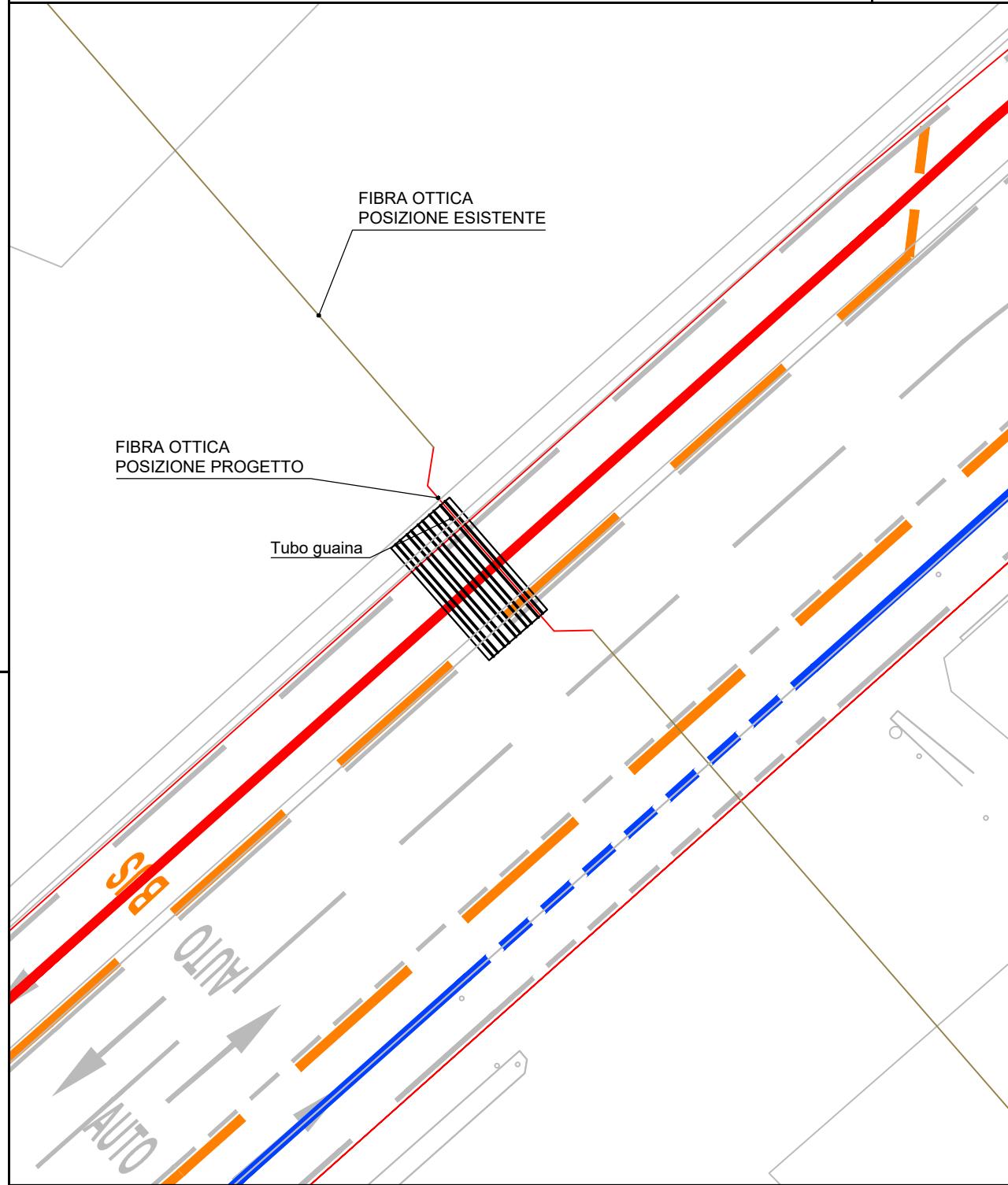


TELECOMUNICAZIONI IN ATTRAVERSAM.

PLANIMETRIA DI PROGETTO

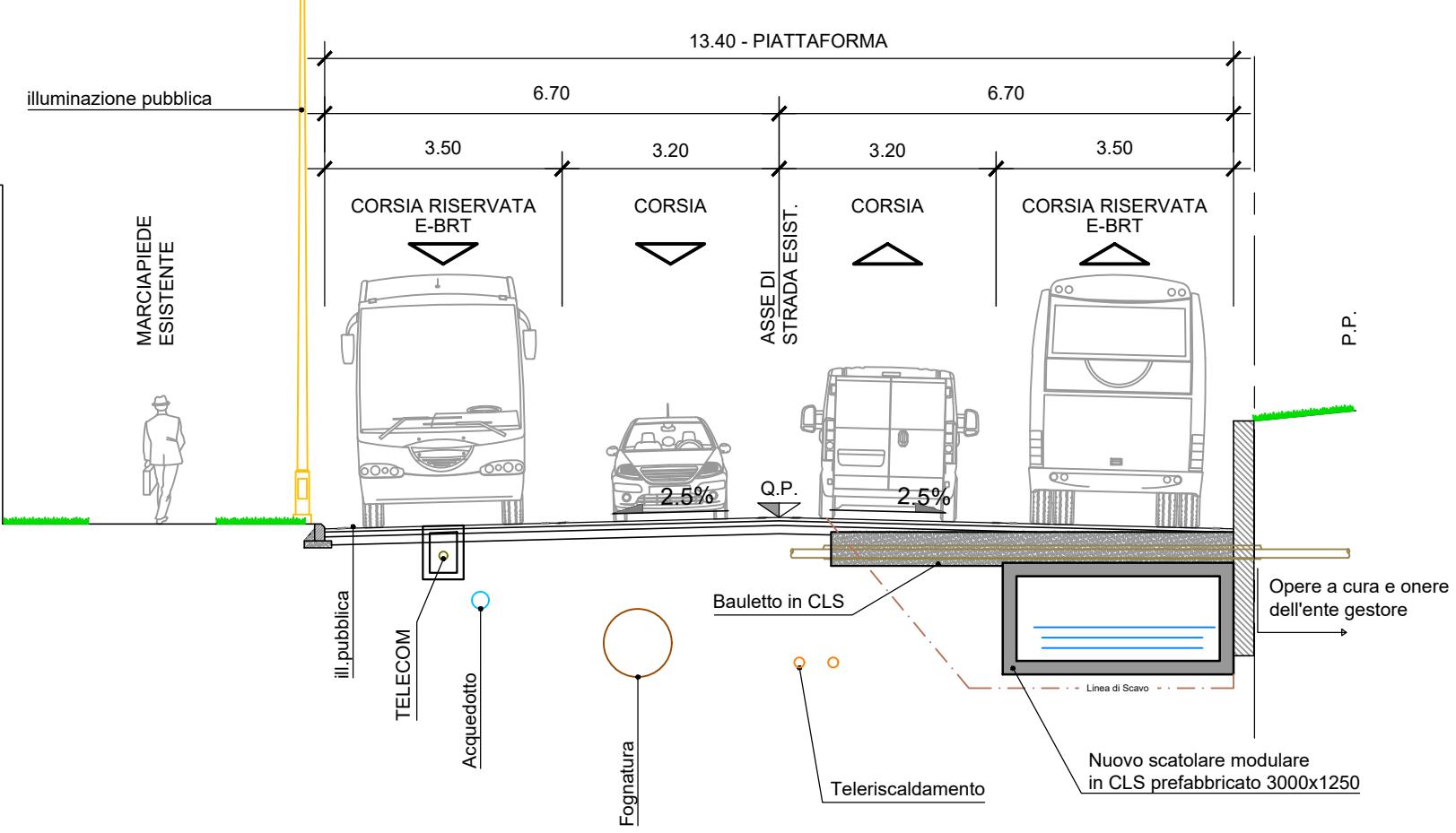
TAV.

TEL01



PROGETTO

SCALA 1:100

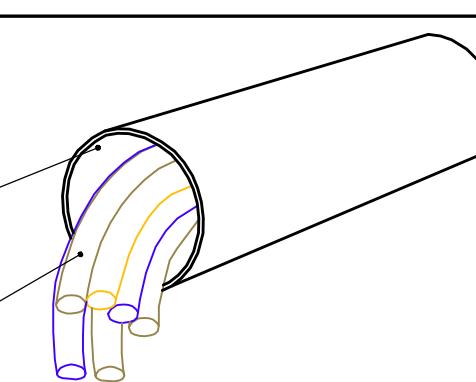


TELECOMUNICAZIONI - DIMENSIONE TUBO GUINA

Tubo guaina per cavidotti in attraversamento: DN200

TUBO GUINA DN200

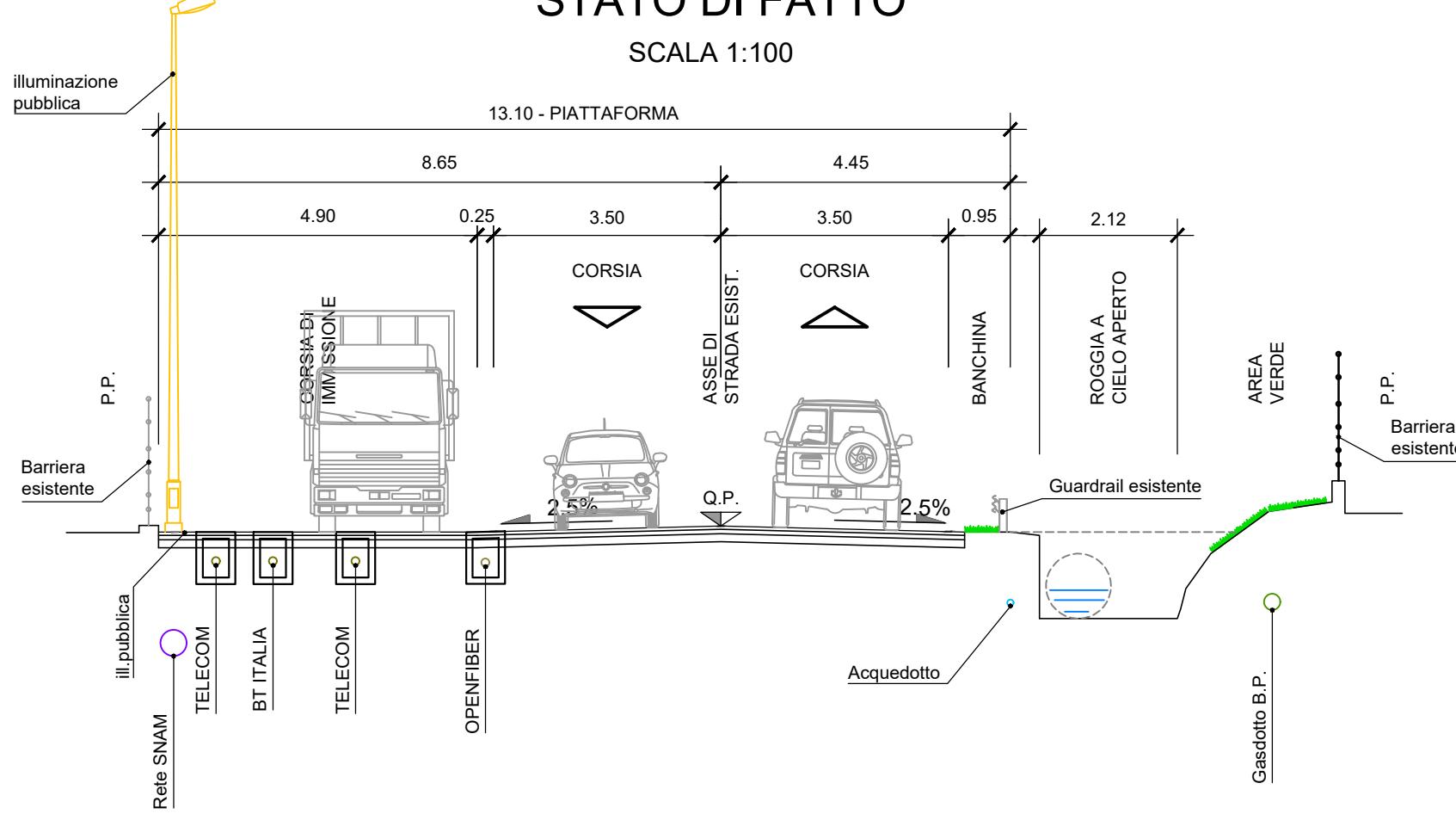
FIBRA OTTICA



STATO DI FATTO

SCALA 1:100

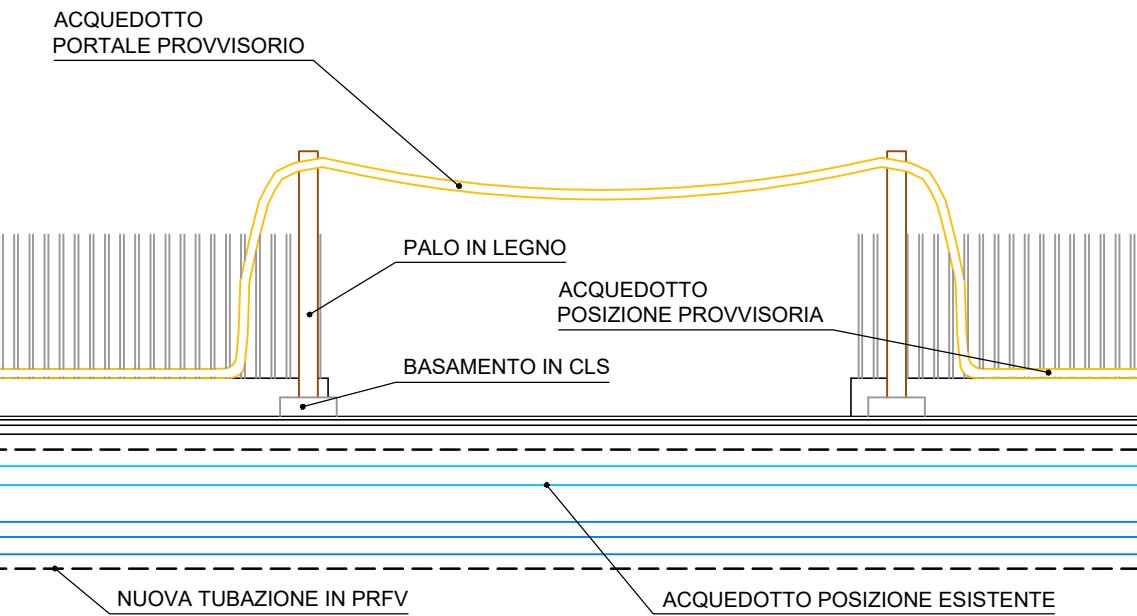
13.10 - PIATTAFORMA



ACQUEDOTTO IN PARALLELISMO SOLUZIONE PROVVISORIA ACCESSI

TAV.

ACQ02

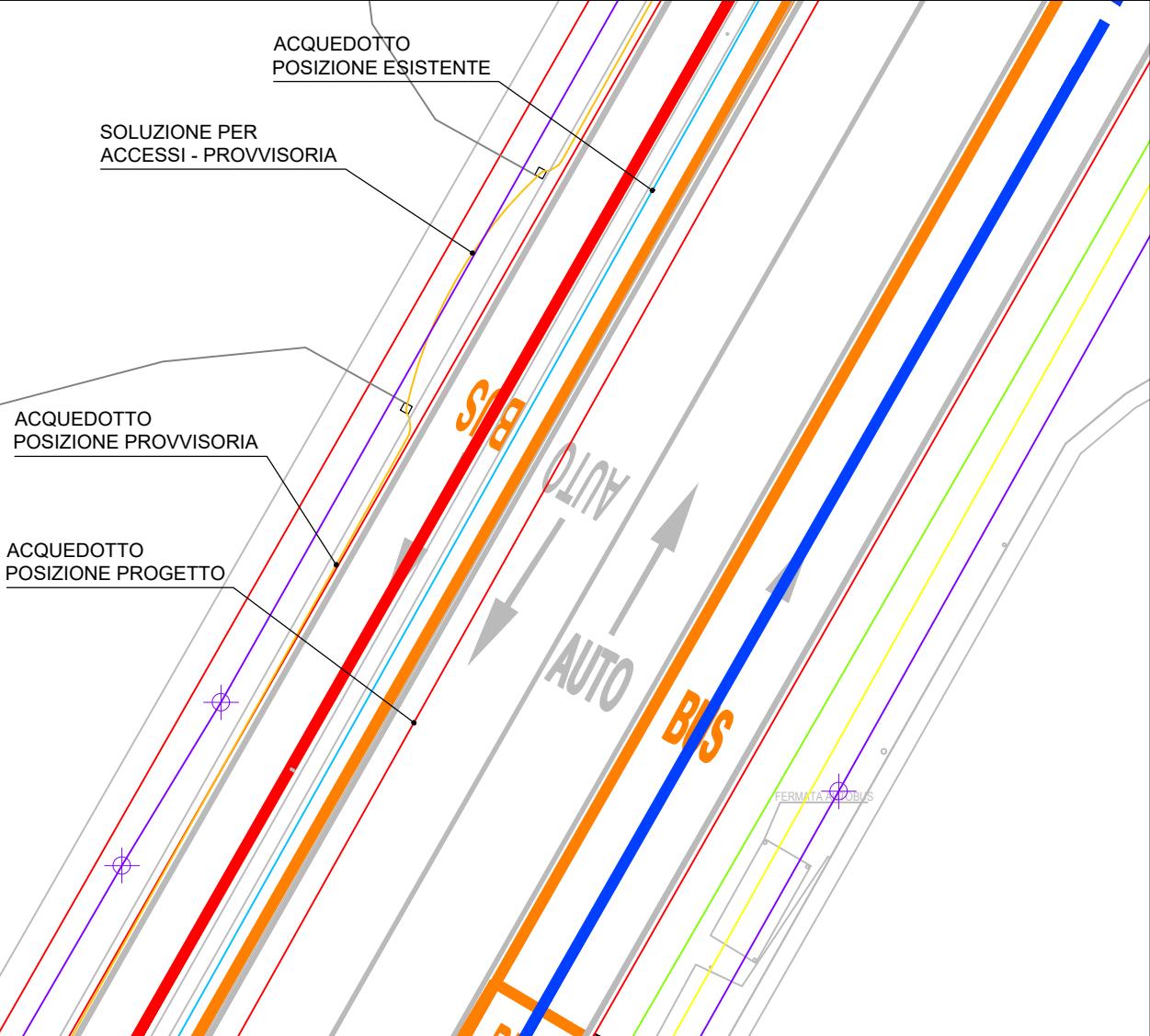
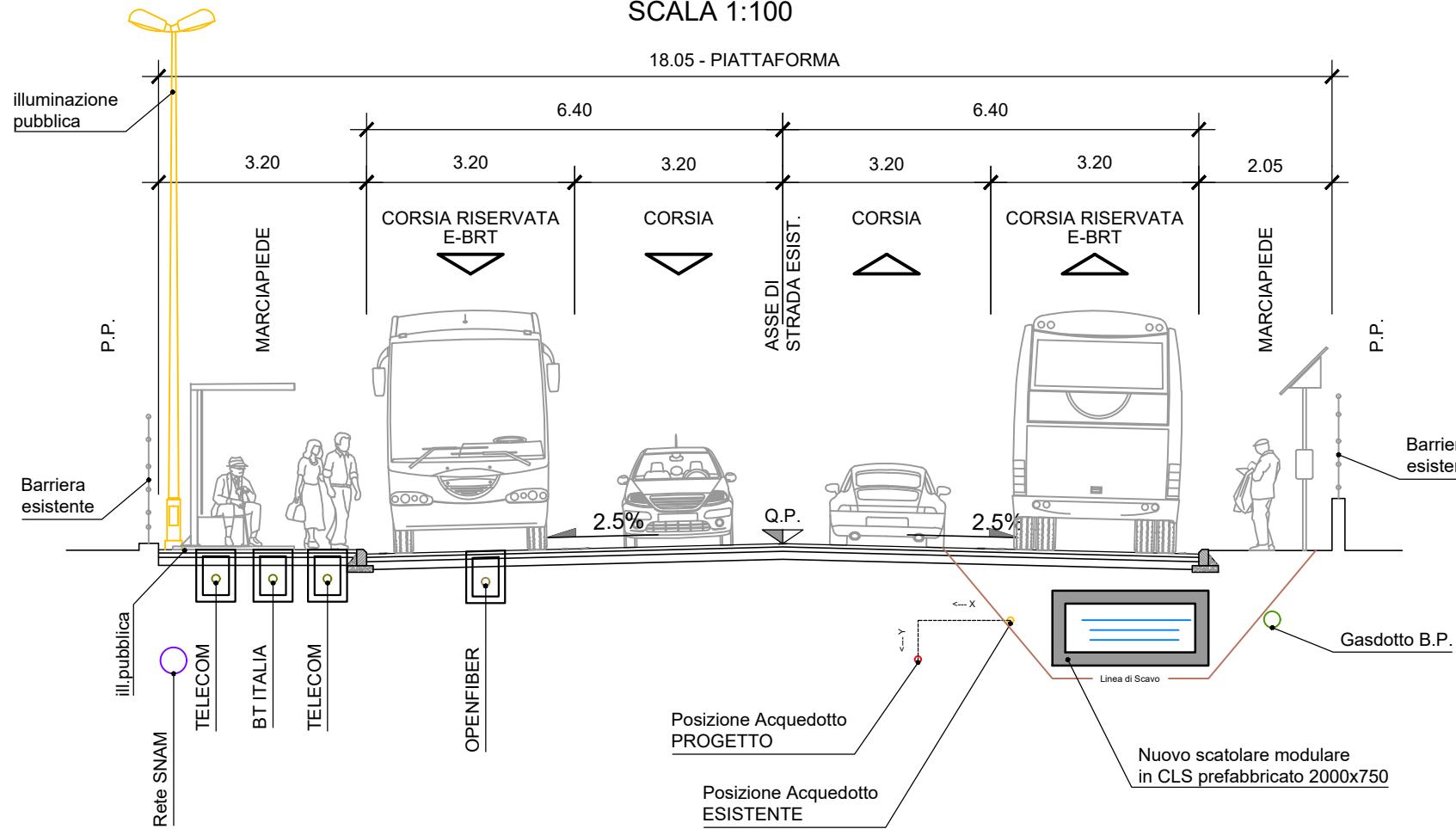


PLANIMETRIA DI PROGETTO

PROGETTO

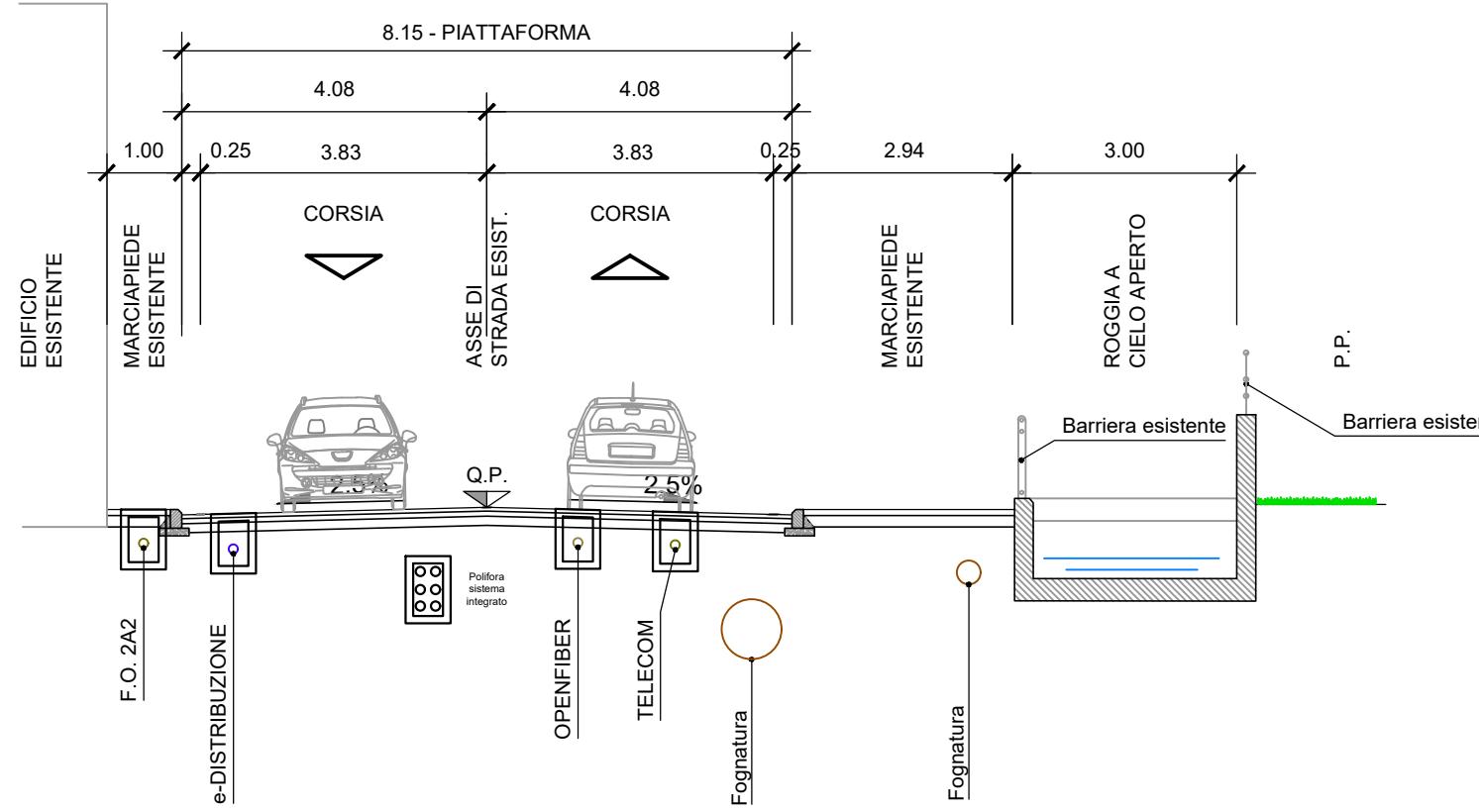
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18.05 - PIATTAFORMA



STATO DI FATTO

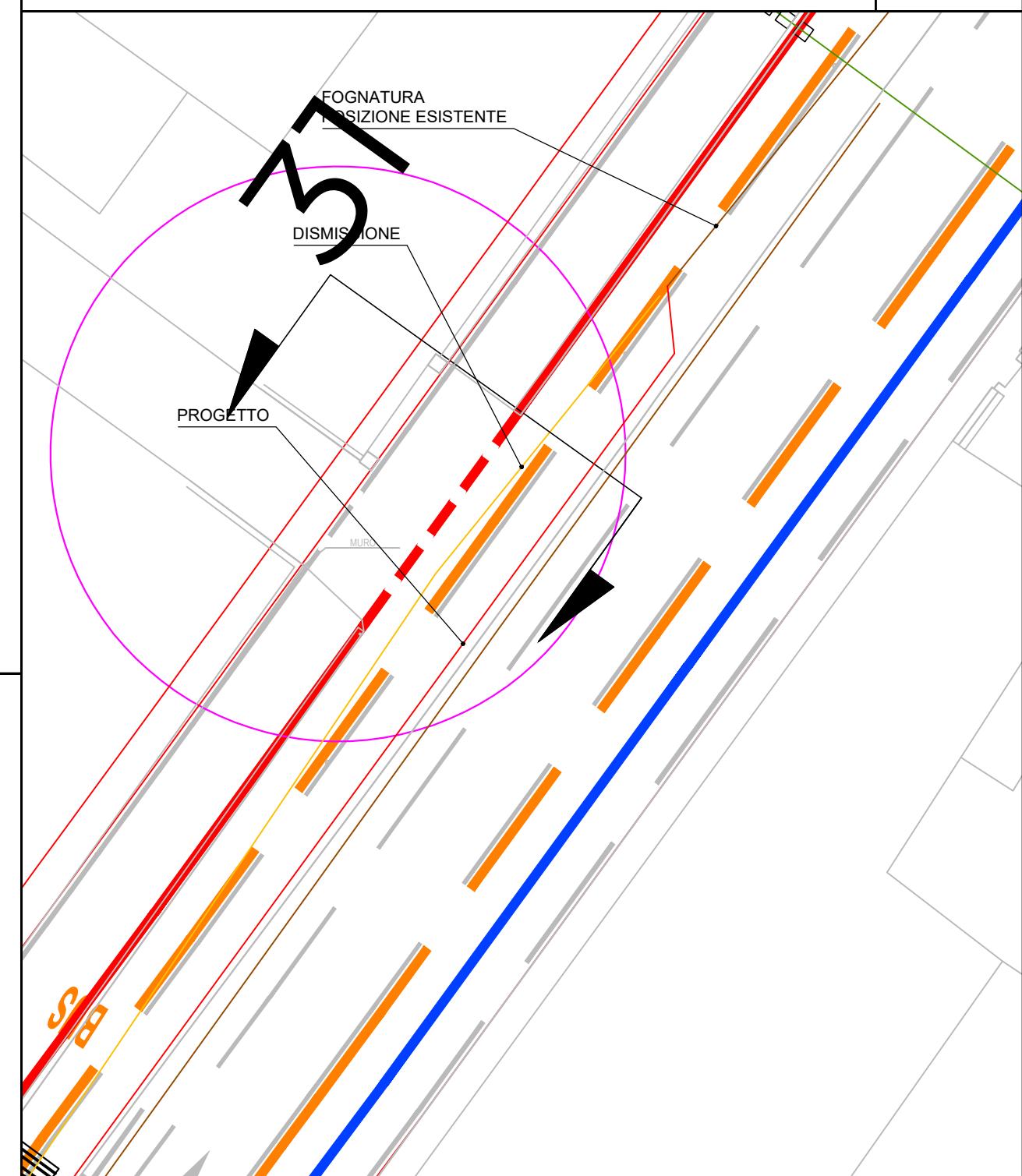
SCALA 1:100



FOGNATURA IN PARALLELISMO PLANIMETRIA DI PROGETTO

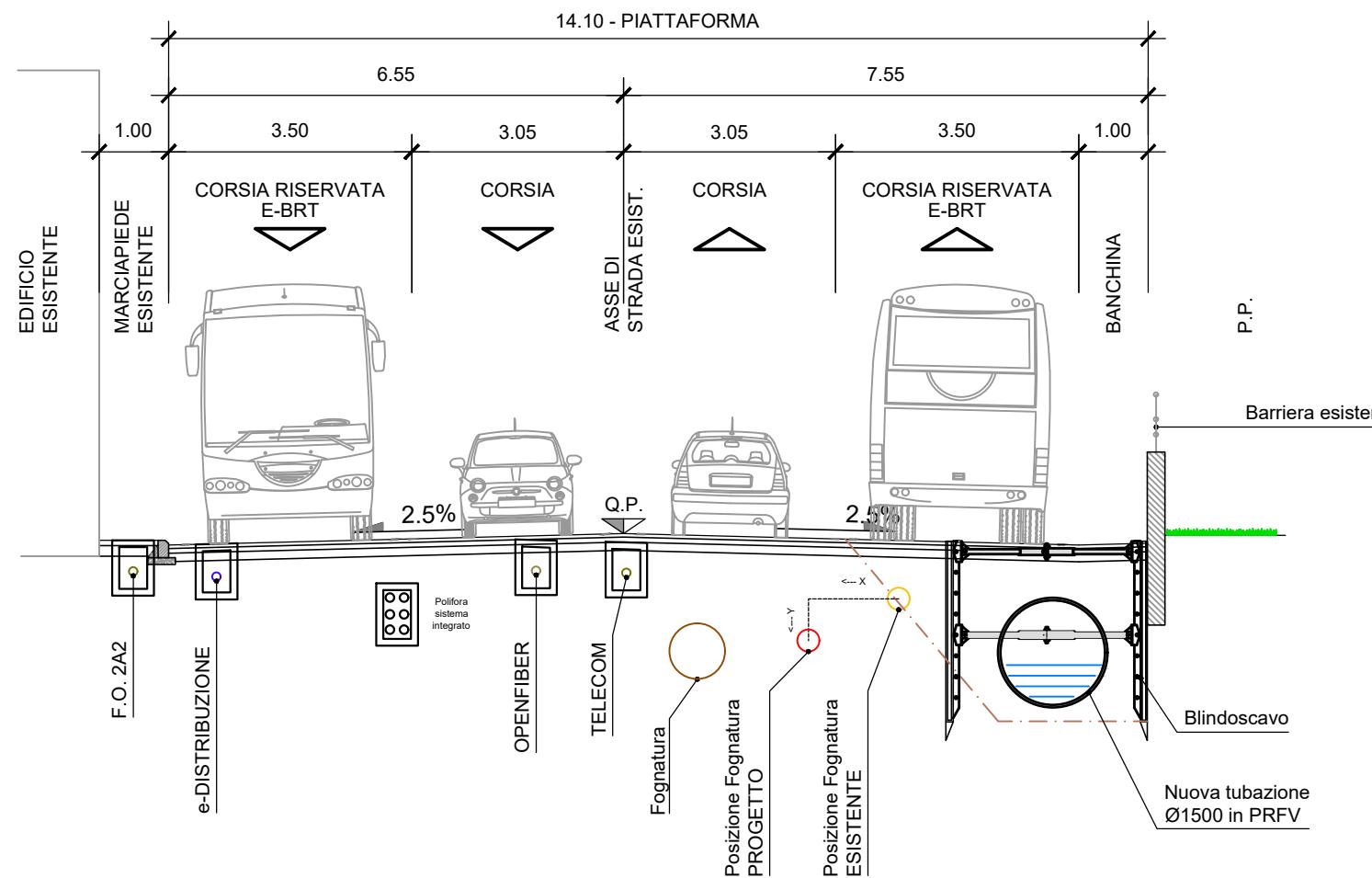
TAV.

FOG03



PROGETTO

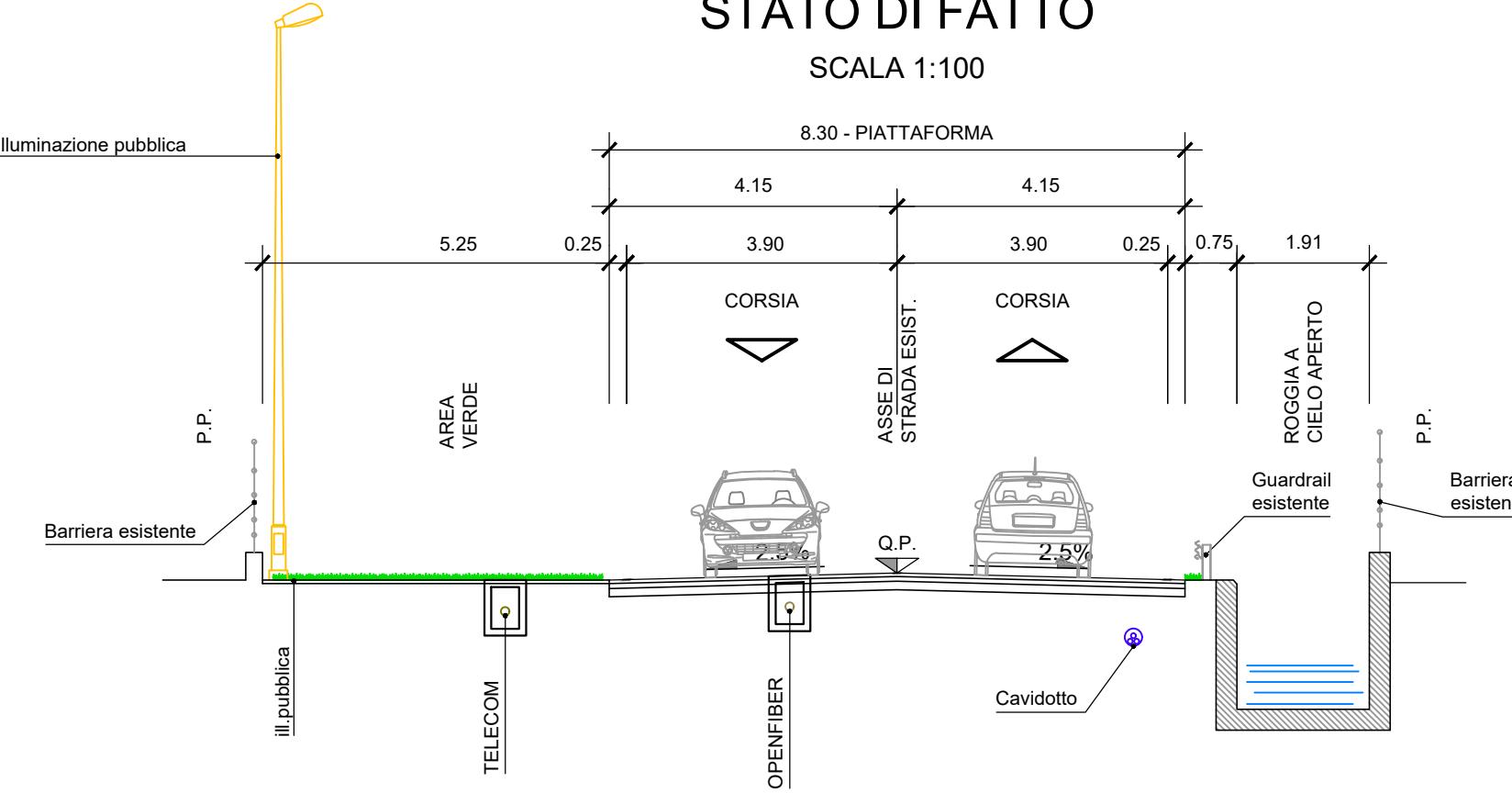
SCALA 1:100



STATO DI FATTO

SCALA 1:100

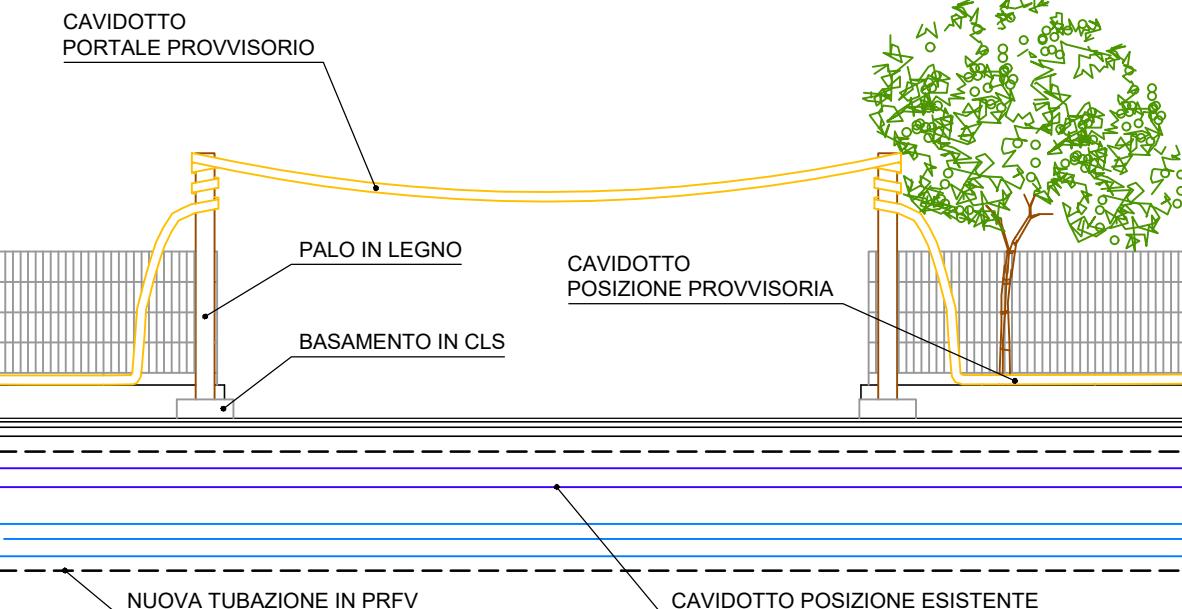
8.30 - PIATTAFORMA



CAVIDOTTO IN PARALLELISMO SOLUZIONE PROVVISORIA ACCESSI

TAV.

CAV02

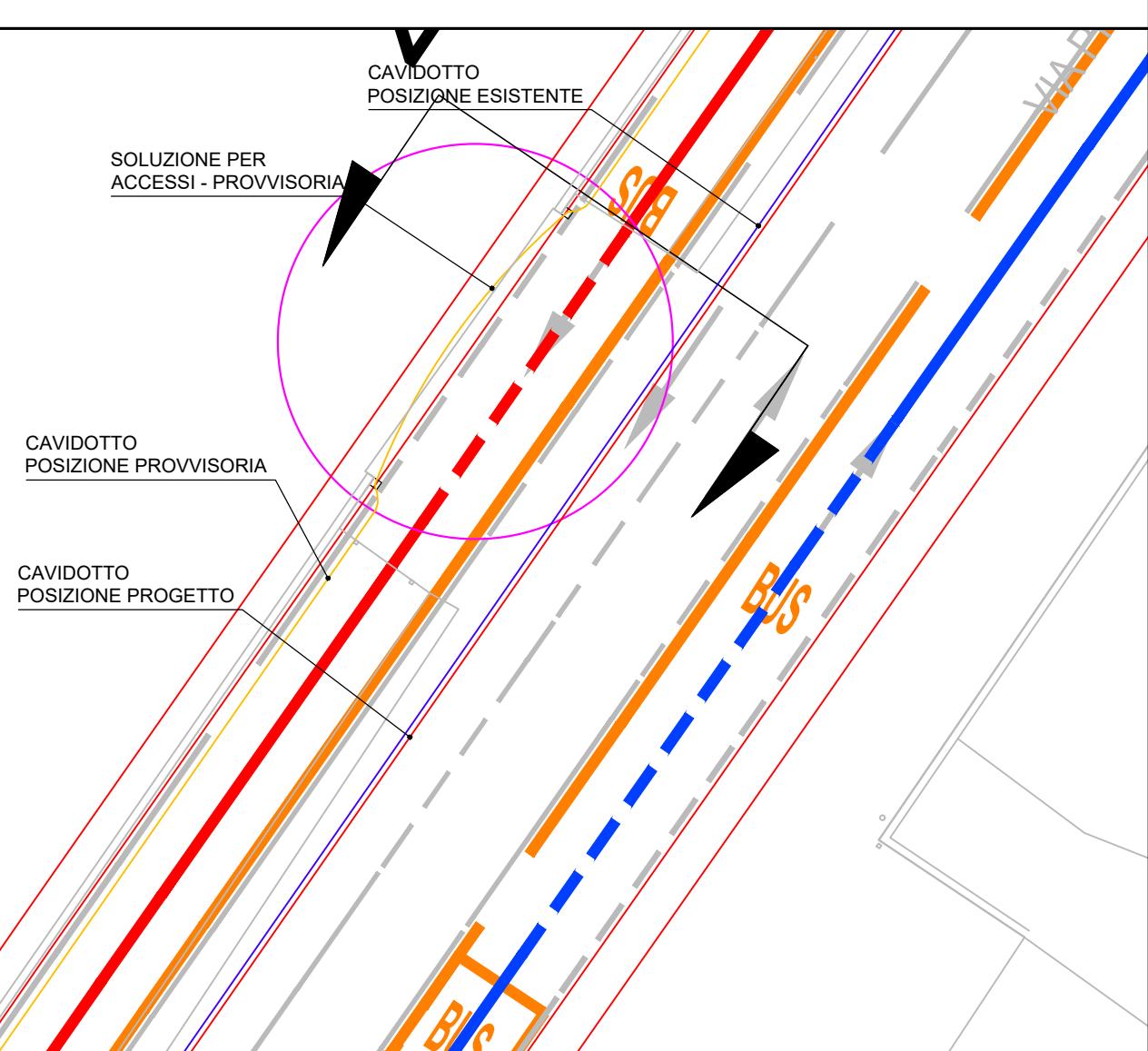
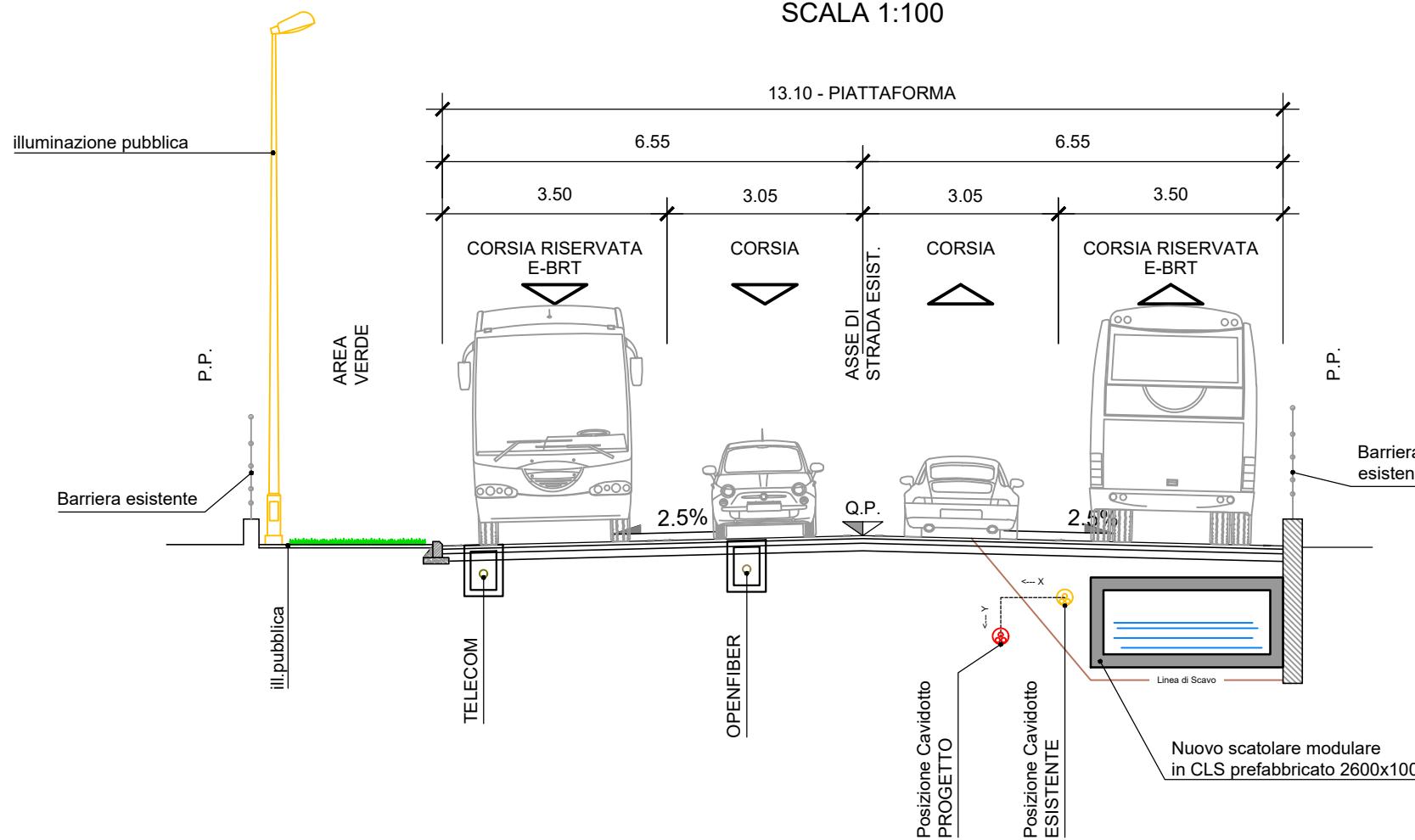


PLANIMETRIA DI PROGETTO

PROGETTO

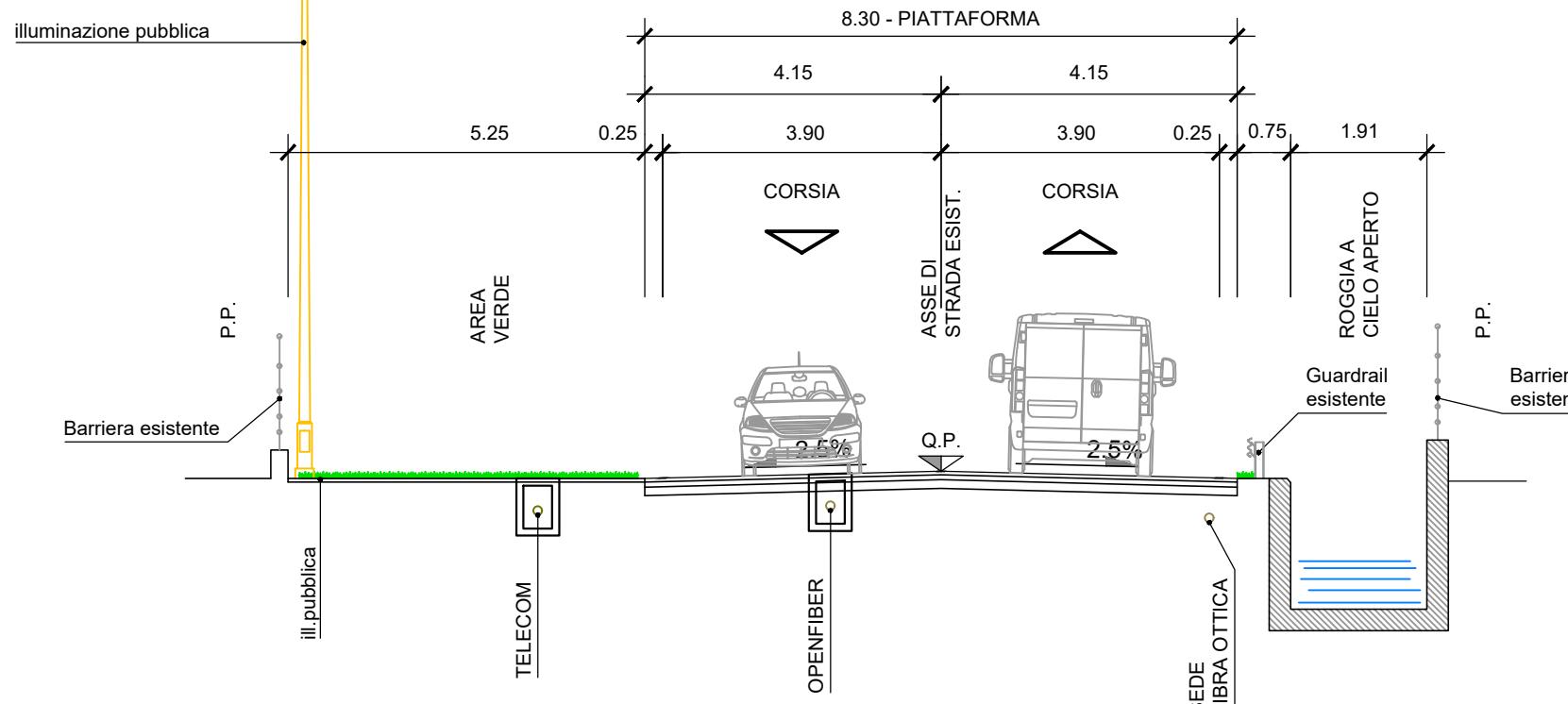
SCALA 1:100

13.10 - PIATTAFORMA



STATO DI FATTO

SCALA 1:100

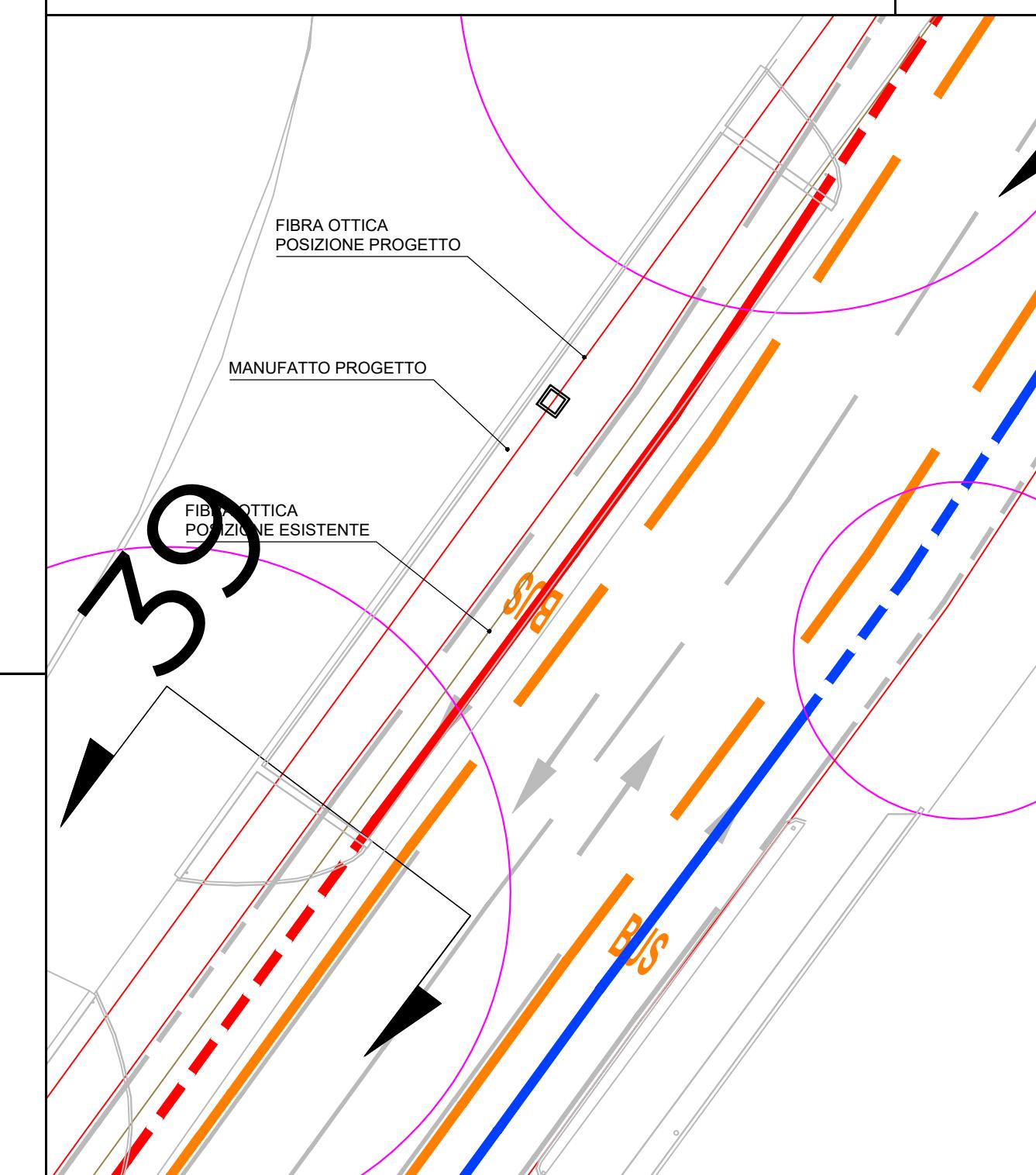


TELECOMUNICAZIONI IN PARALLELISMO

PLANIMETRIA DI PROGETTO

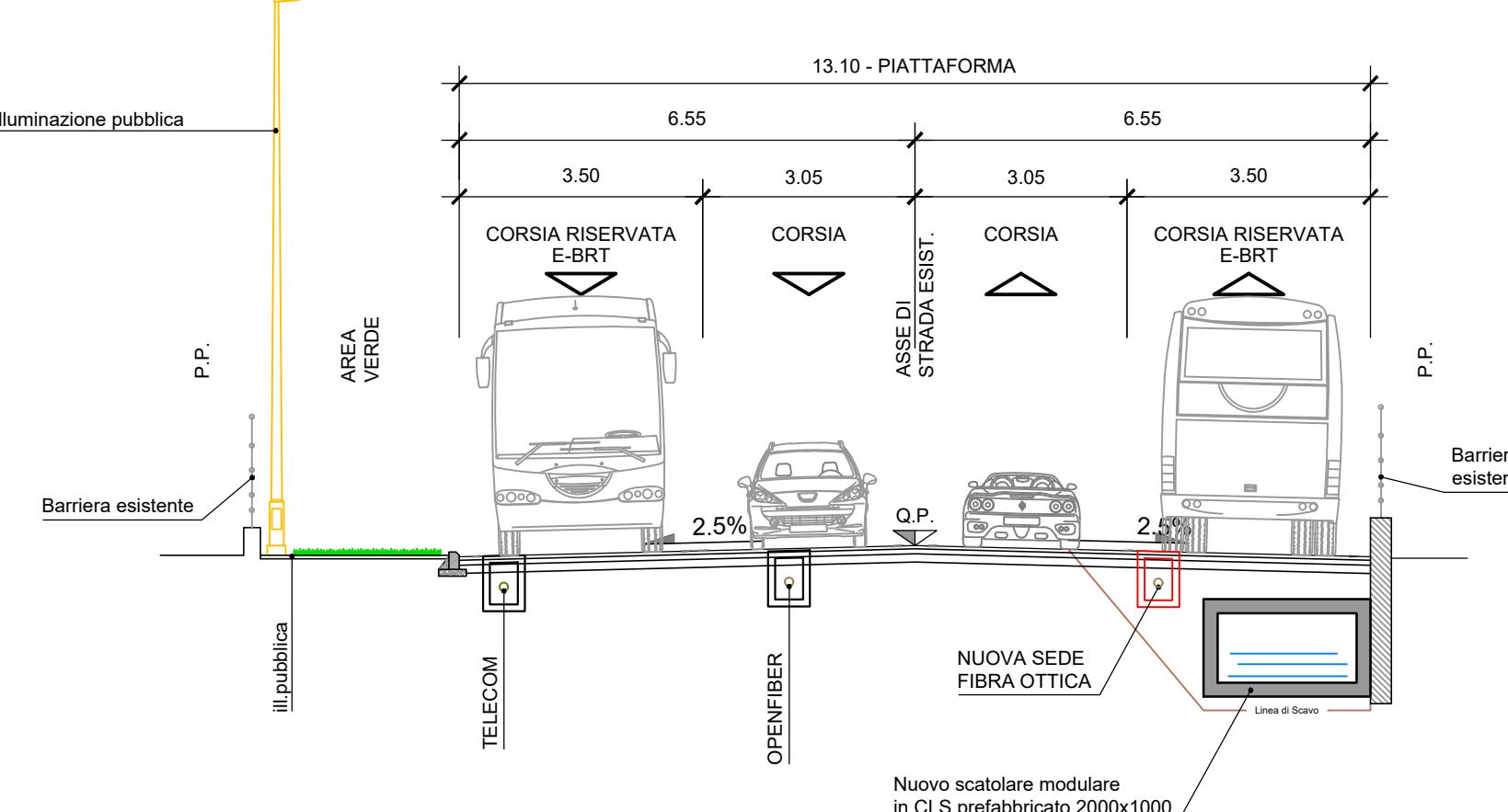
TAV.

TEL02



PROGETTO

SCALA 1:100

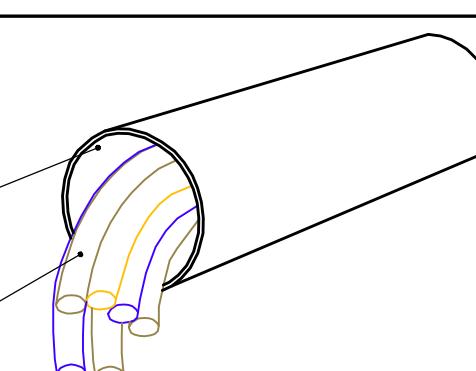


TELECOMUNICAZIONI - DIMENSIONE TUBO GUAINA

Tubo guaina per cavidotti in attraversamento: DN200

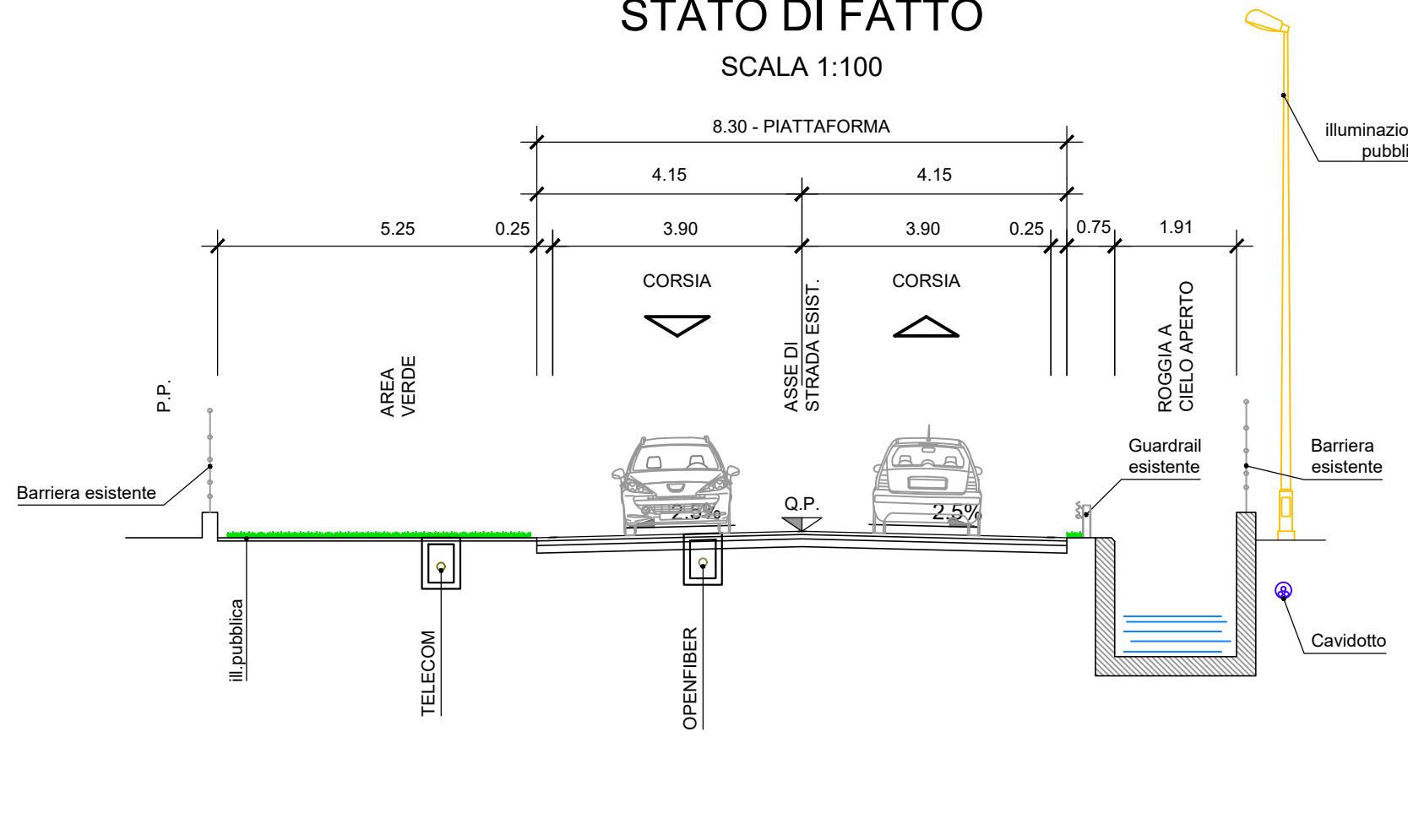
TUBO GUAINA DN200

FIBRA OTTICA



STATO DI FATTO

SCALA 1:100



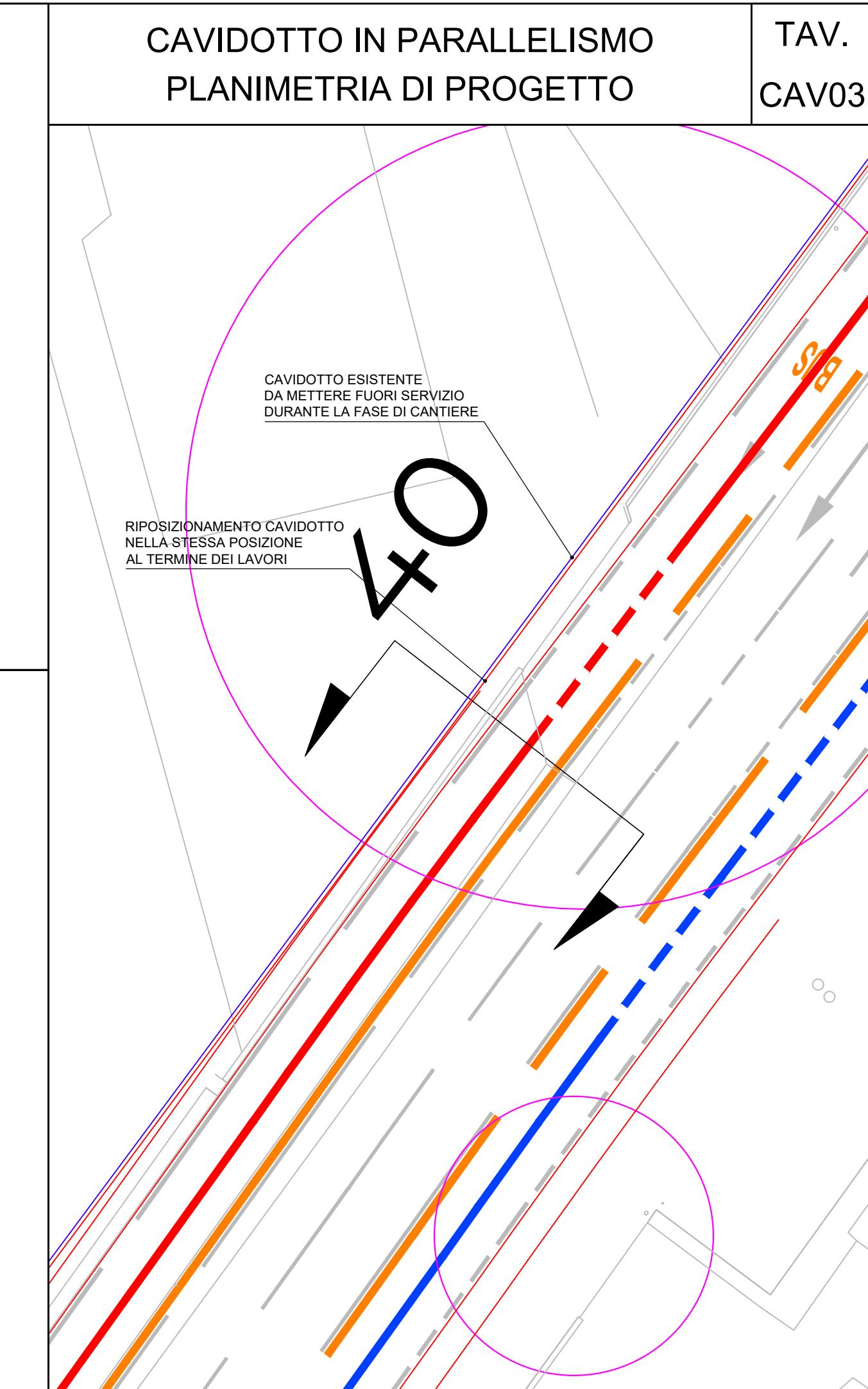
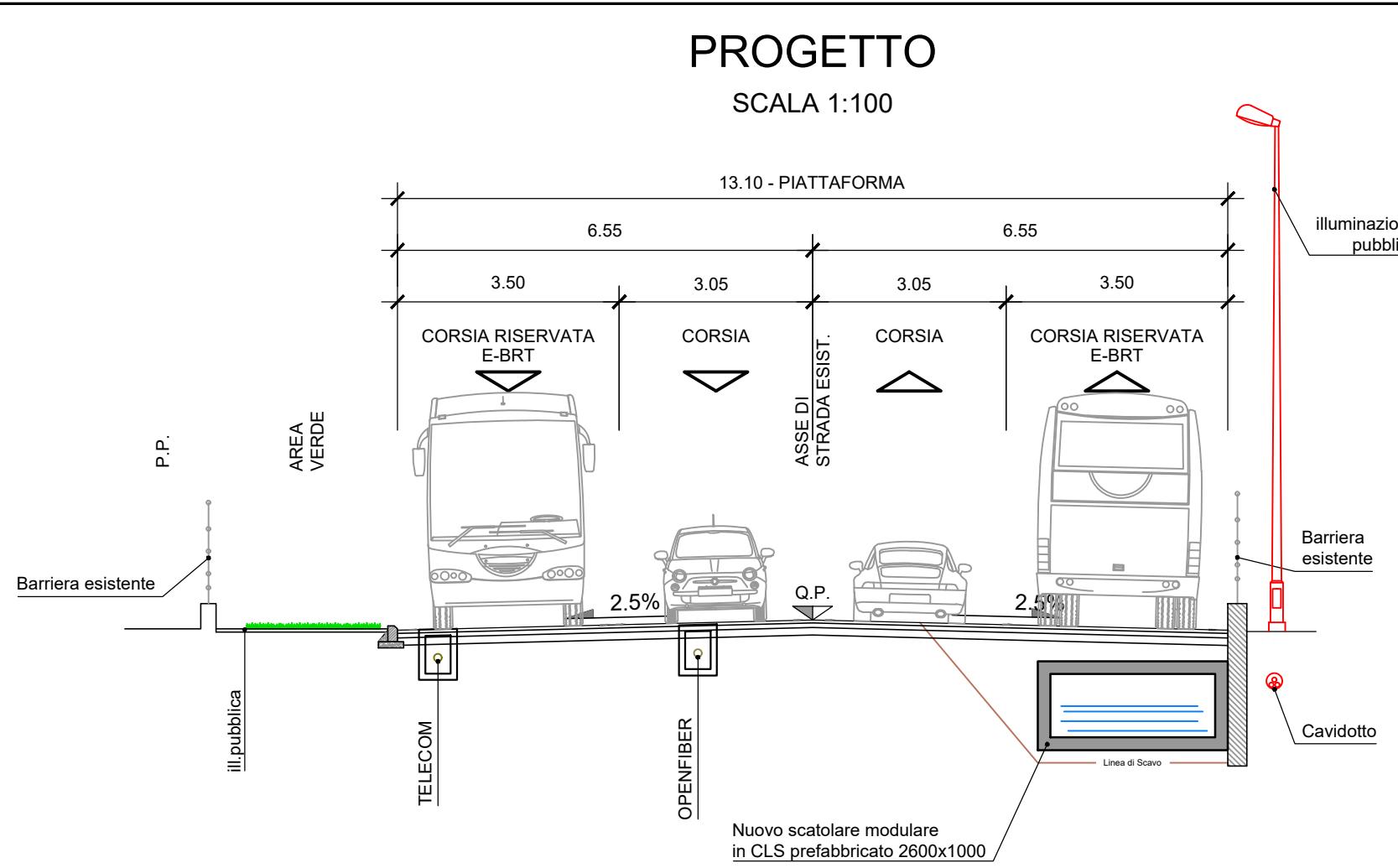
CAVIDOTTO IN PARALLELISMO

PLANIMETRIA DI PROGETTO

TAV.
CAV03

PROGETTO

SCALA 1:100



STATO DI FATTO

SCALA 1:100

AREA
VERDE

ACETILENE

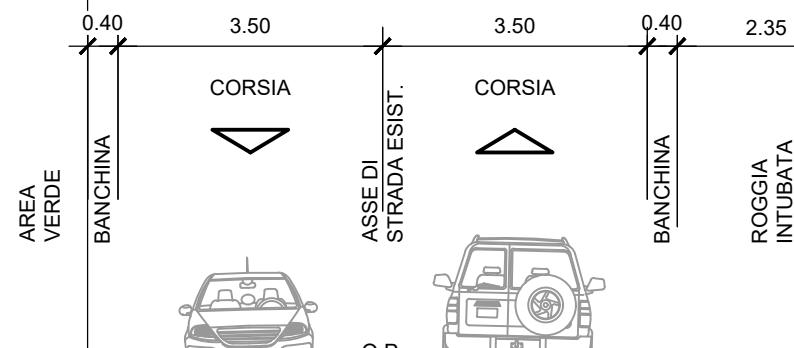
AREA
VERDE

ACETILENE

OSSIGENO

AZOTO

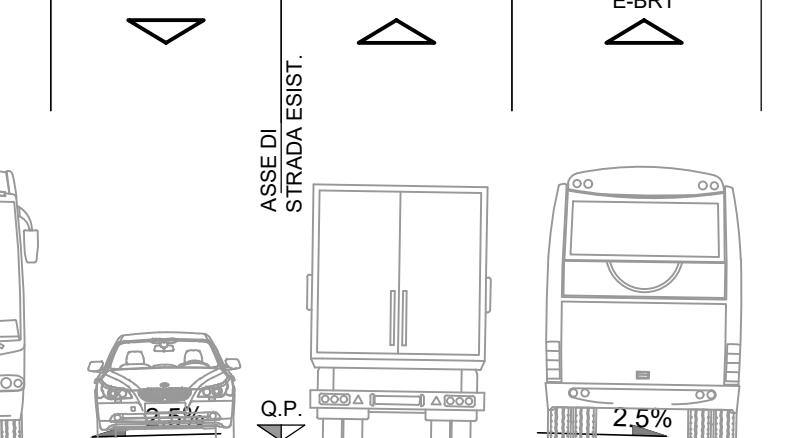
10.15 - PIATTAFORMA



PROGETTO

SCALA 1:100

12.70 - PIATTAFORMA

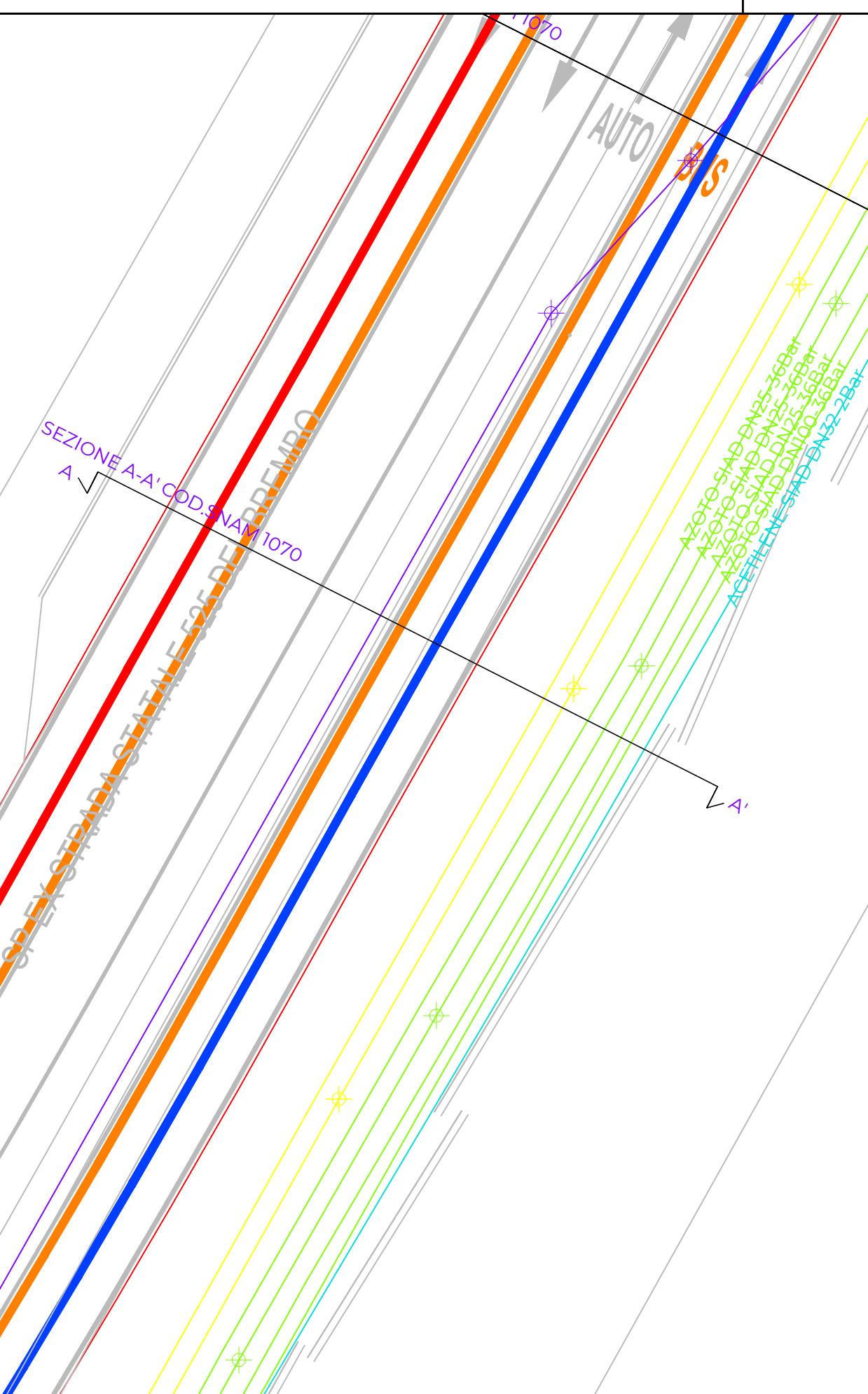


Nuovo scatolare modulare
in CLS prefabbricato 1500x1000

INTERFERENZA CON RETE SNAM

SEZ. A-A' PLANIMETRIA DI PROGETTO

TAV.
SNAM
1070



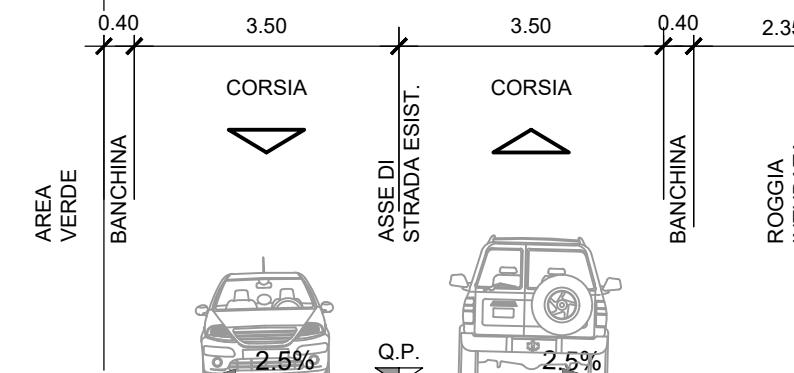
STATO DI FATTO

SCALA 1:100

AREA
VERDE

AZOTO
OSSIGENO
ACETILENE

10.15 - PIATTAFORMA



SNAM DN75 NR. 1070

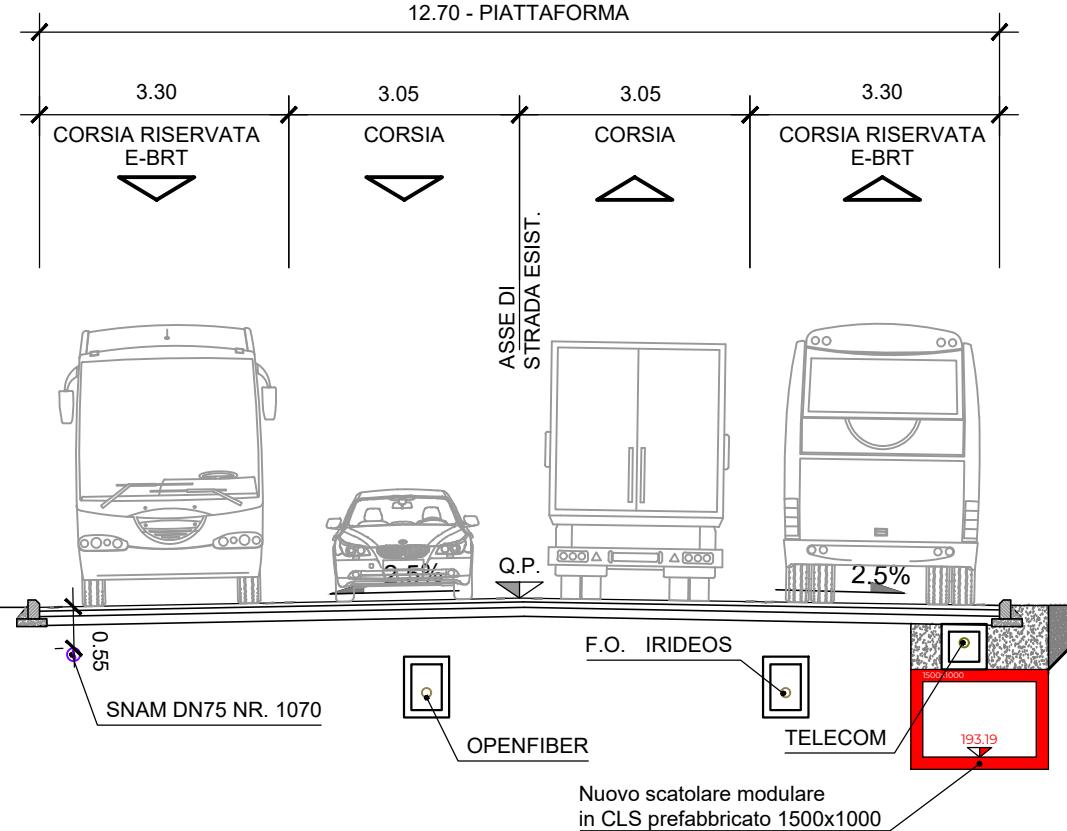
PROGETTO

SCALA 1:100

AREA
VERDE

AZOTO
OSSIGENO
ACETILENE

12.70 - PIATTAFORMA

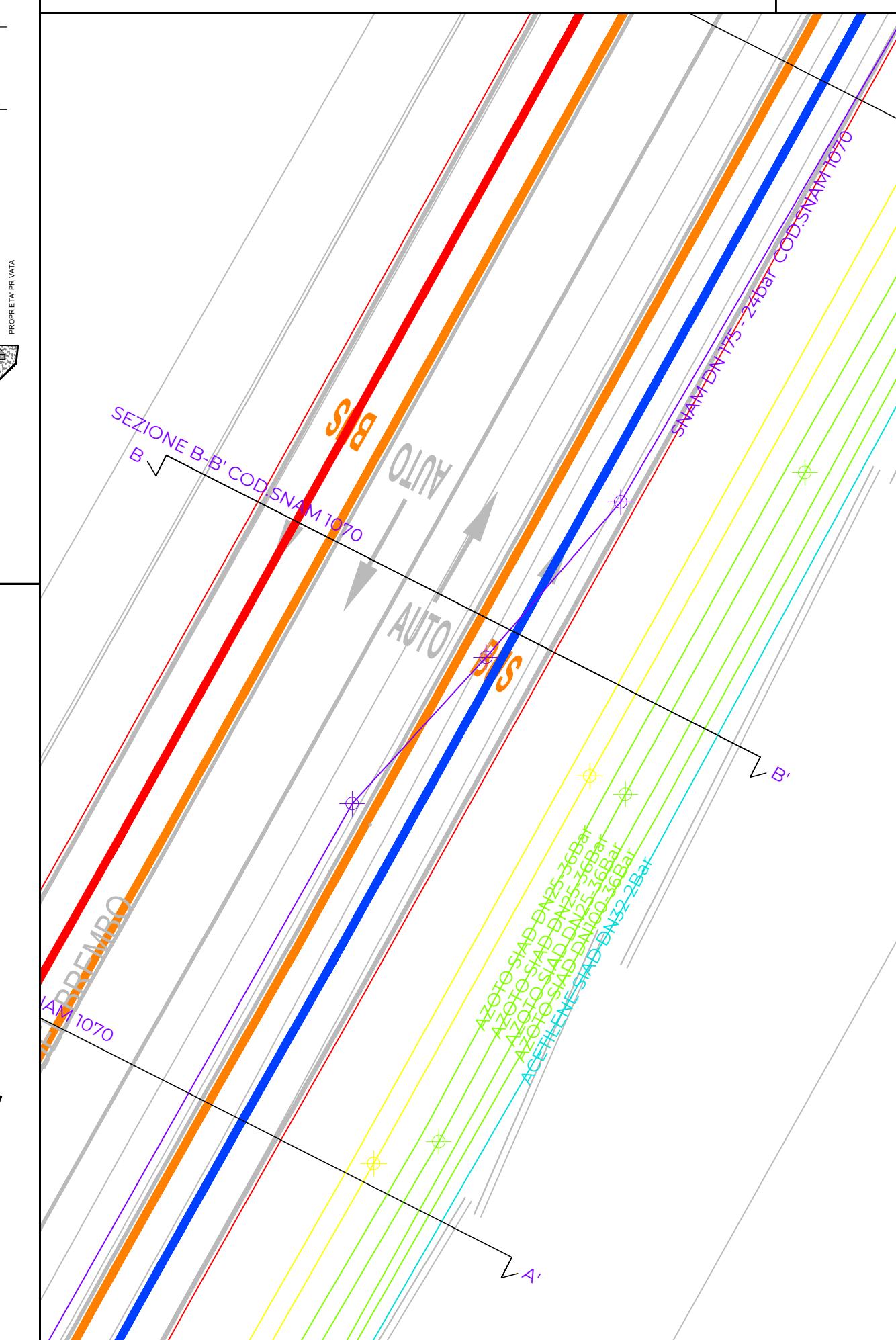


Nuovo scatolare modulare
in CLS prefabbricato 1500x1000

INTERFERENZA CON RETE SNAM

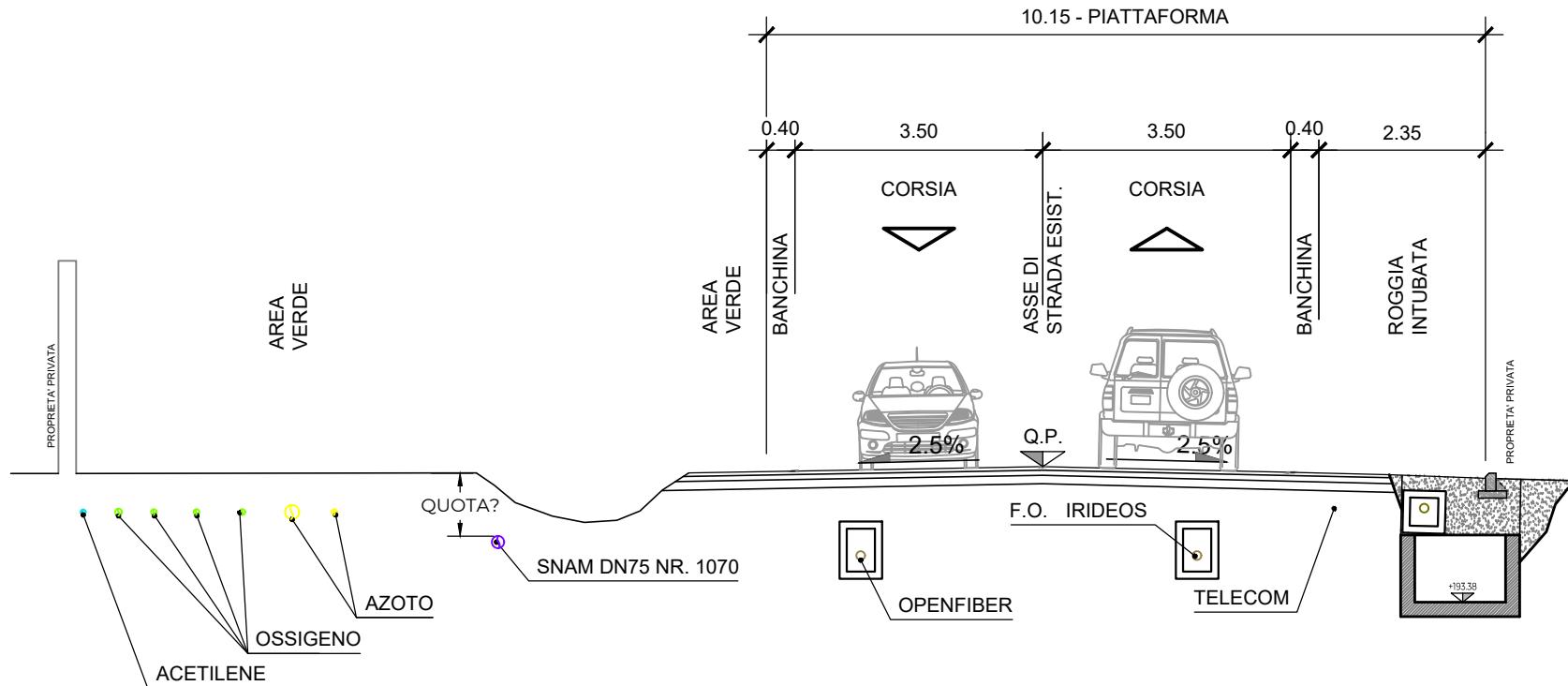
SEZ. B-B' PLANIMETRIA DI PROGETTO

TAV.
SNAM
1070



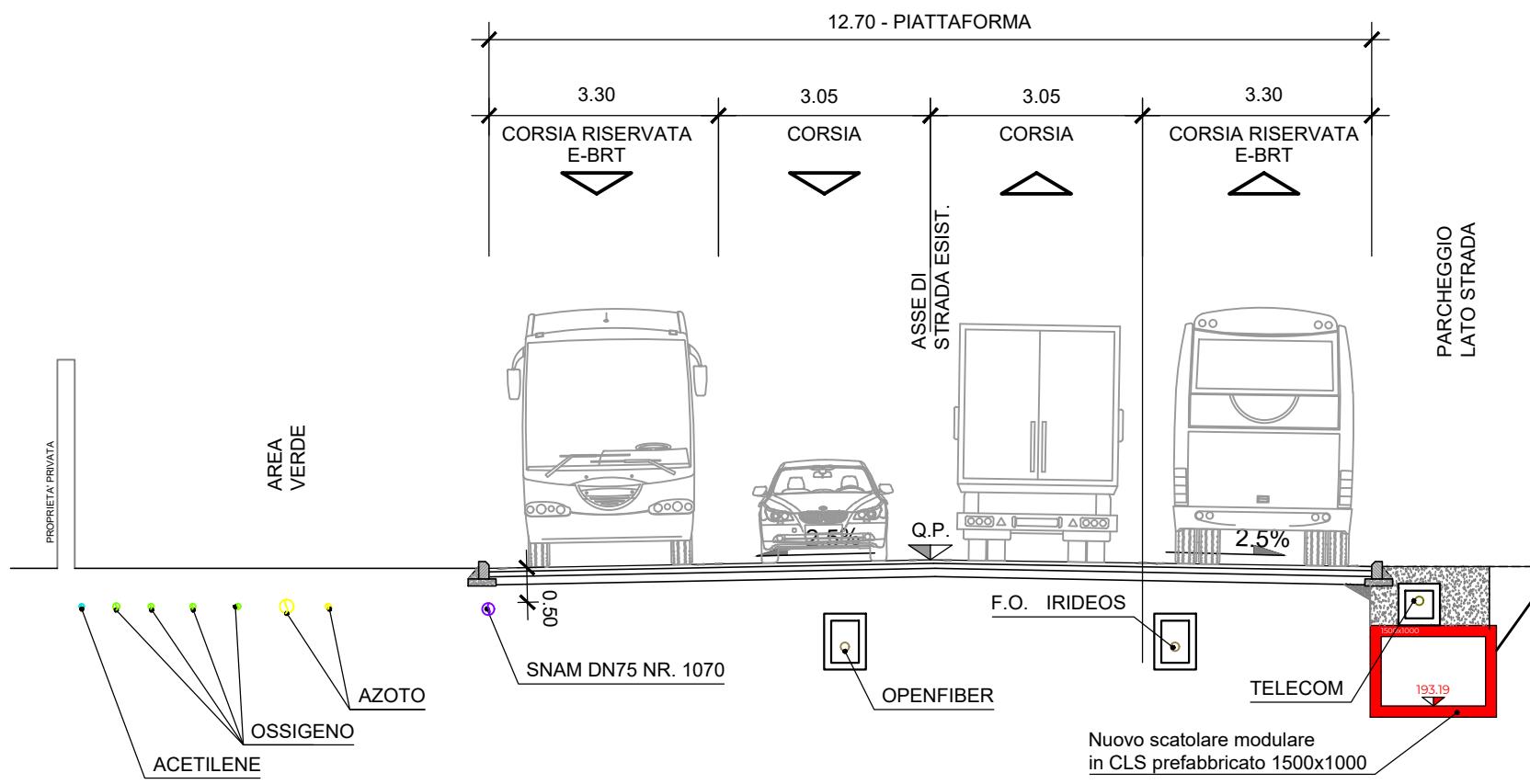
STATO DI FATTO

SCALA 1:100



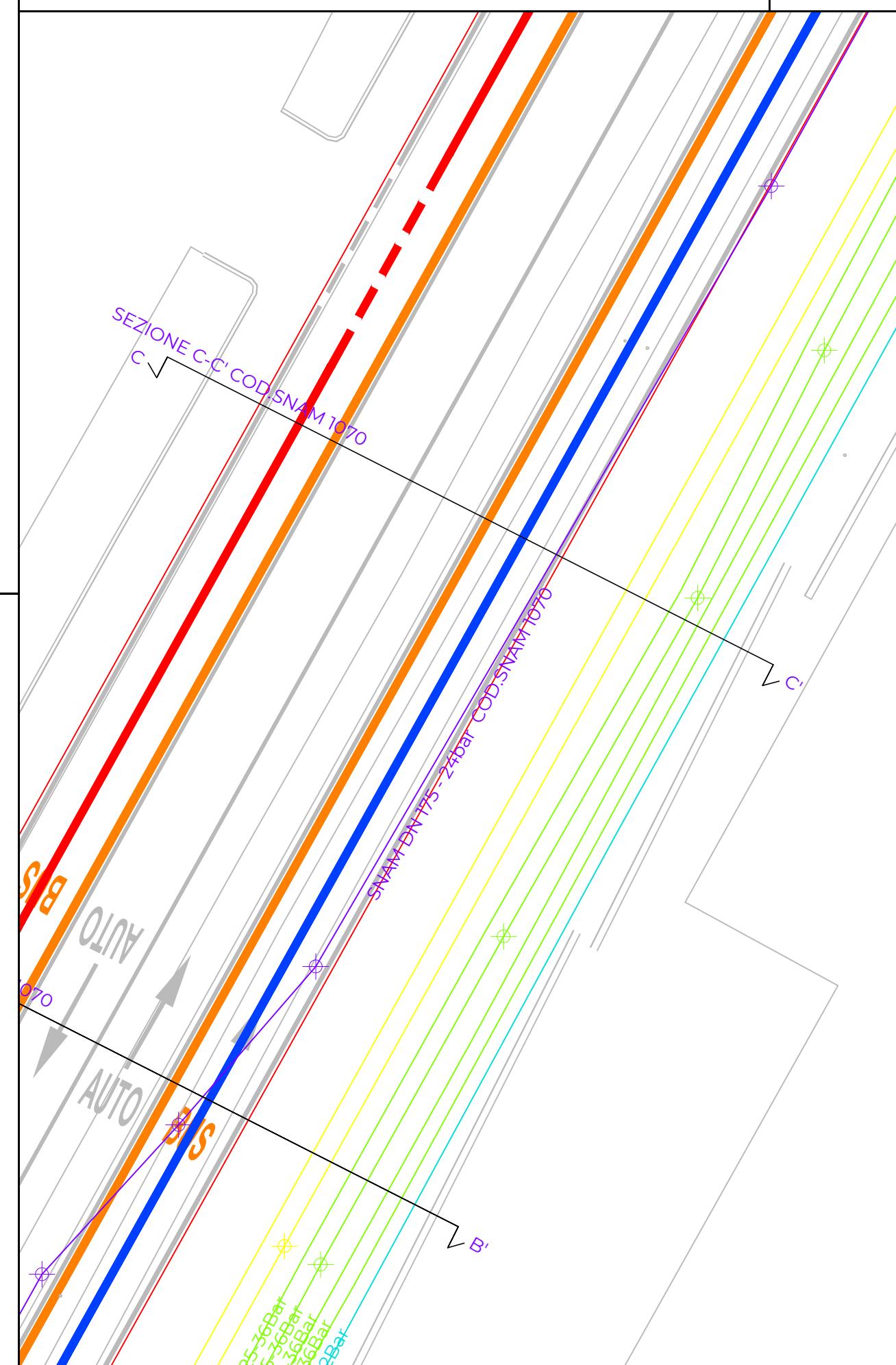
PROGETTO

SCALA 1:100



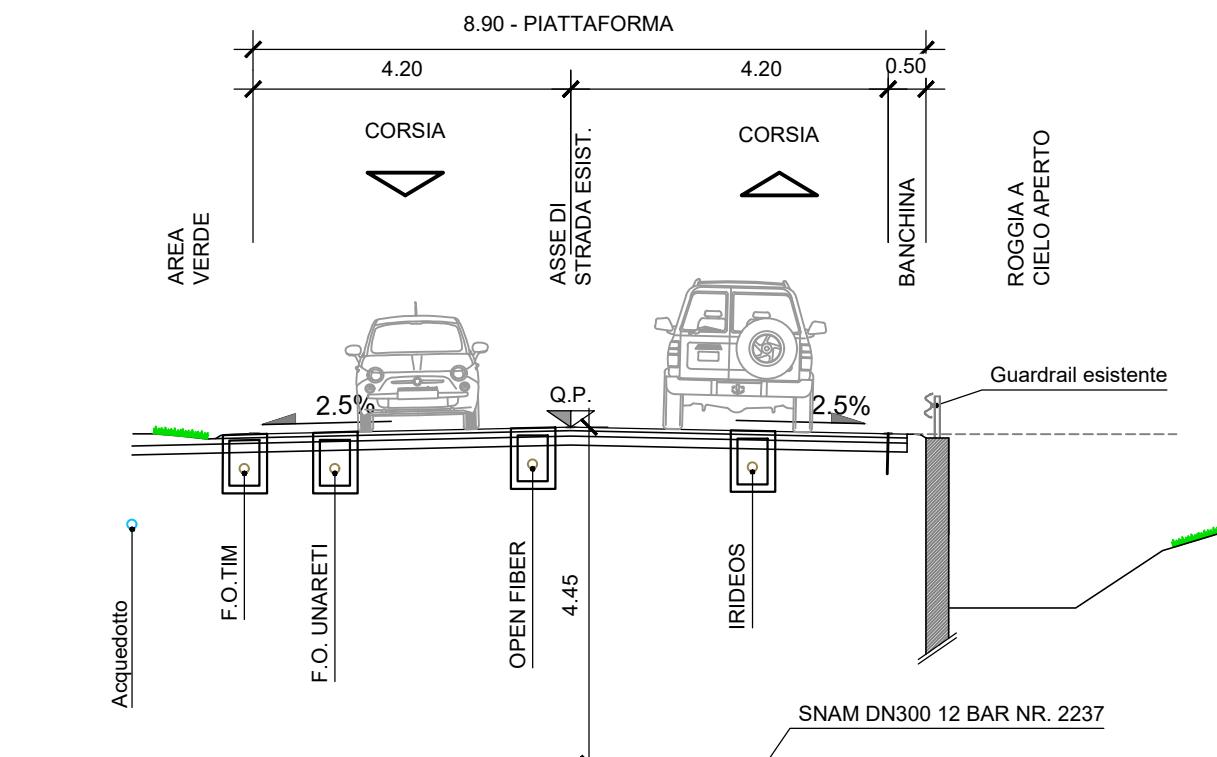
INTERFERENZA CON RETE SNAM SEZ. C-C' PLANIMETRIA DI PROGETTO

TAV.
SNAM
1070



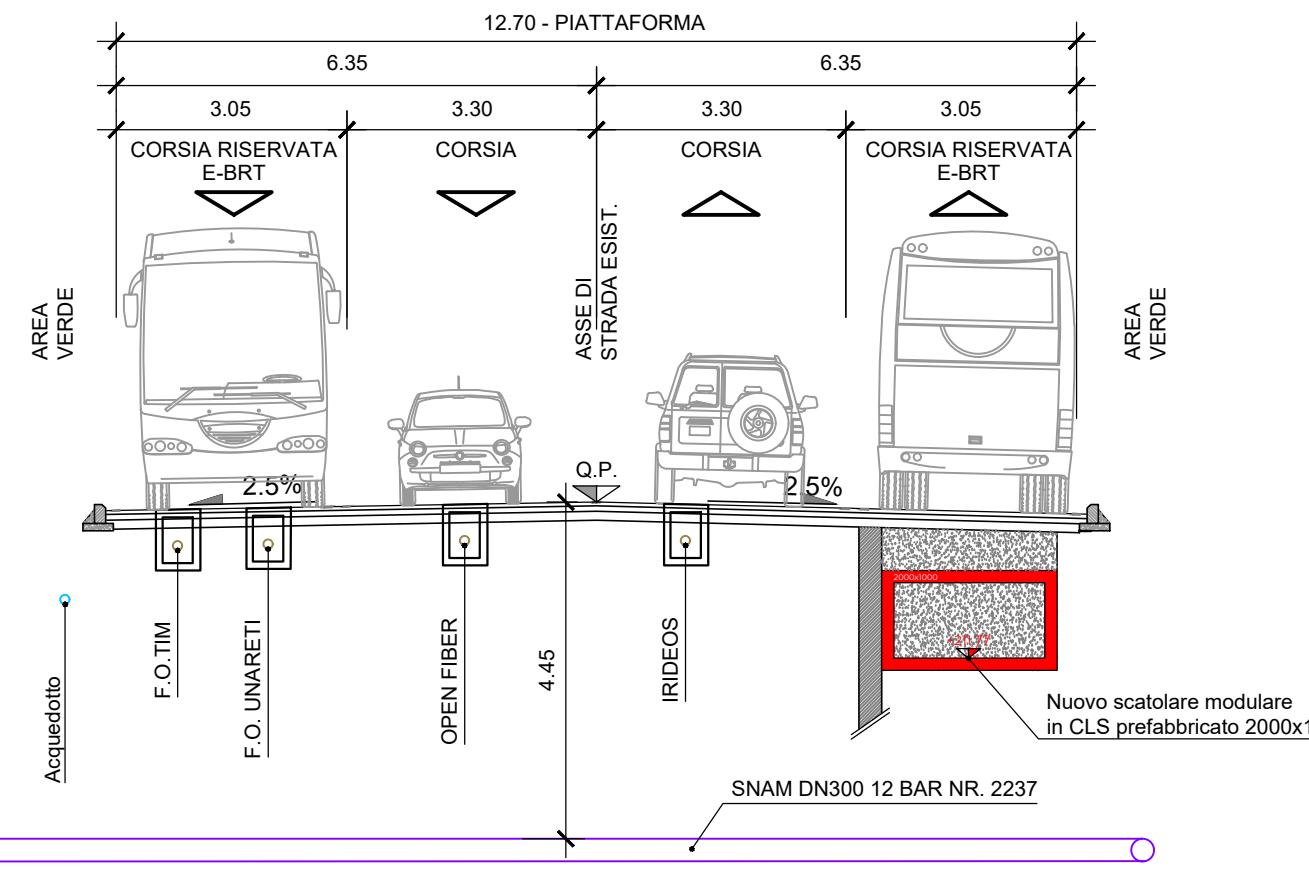
STATO DI FATTO

SCALA 1:100



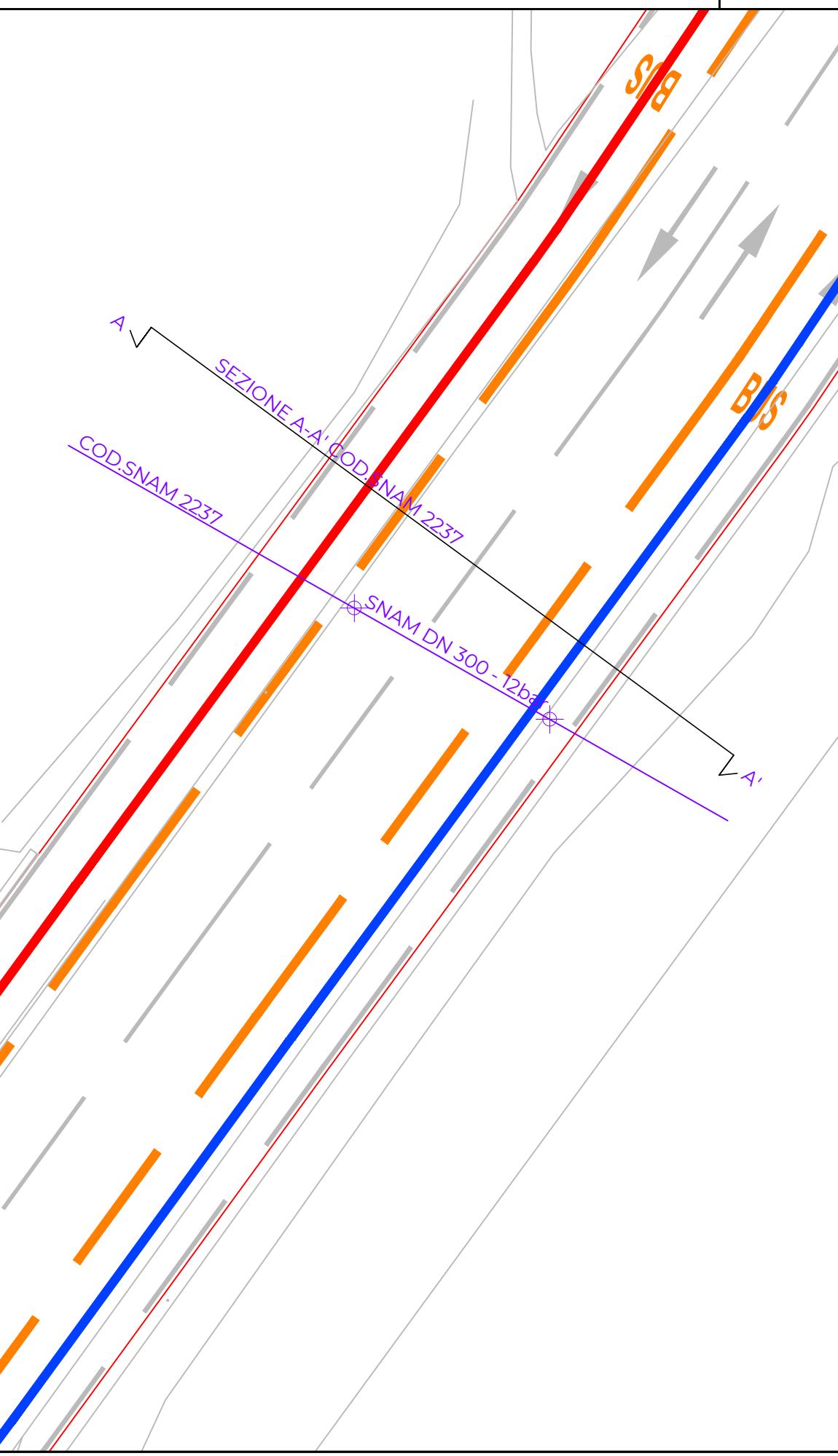
STATO DI PROGETTO

SCALA 1:100



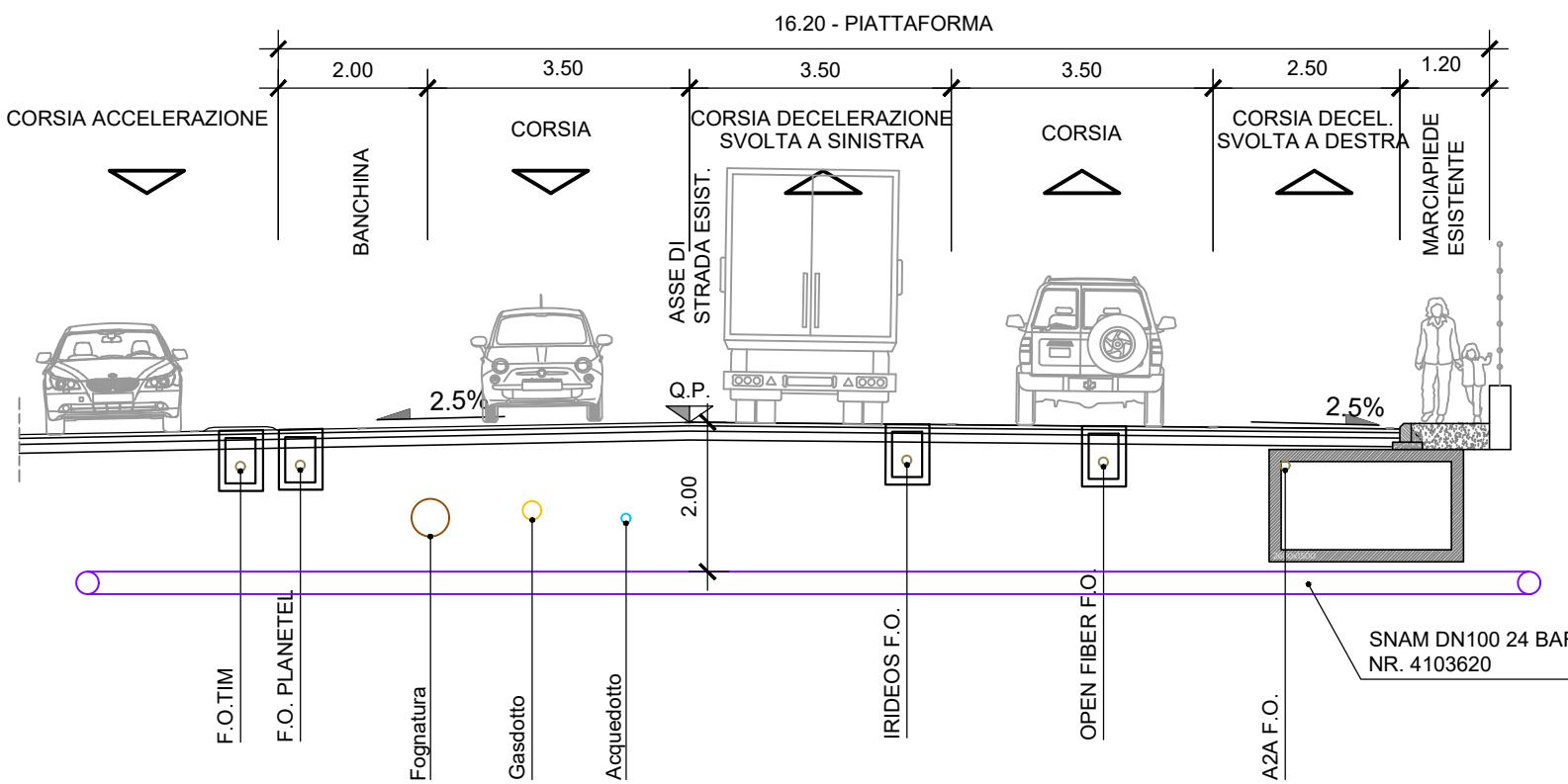
INTERFERENZA CON RETE SNAM SEZ. A-A' PLANIMETRIA DI PROGETTO

TAV.
SNAM
2237



STATO DI FATTO

SCALA 1:100



STATO DI PROGETTO NON PRESENTE

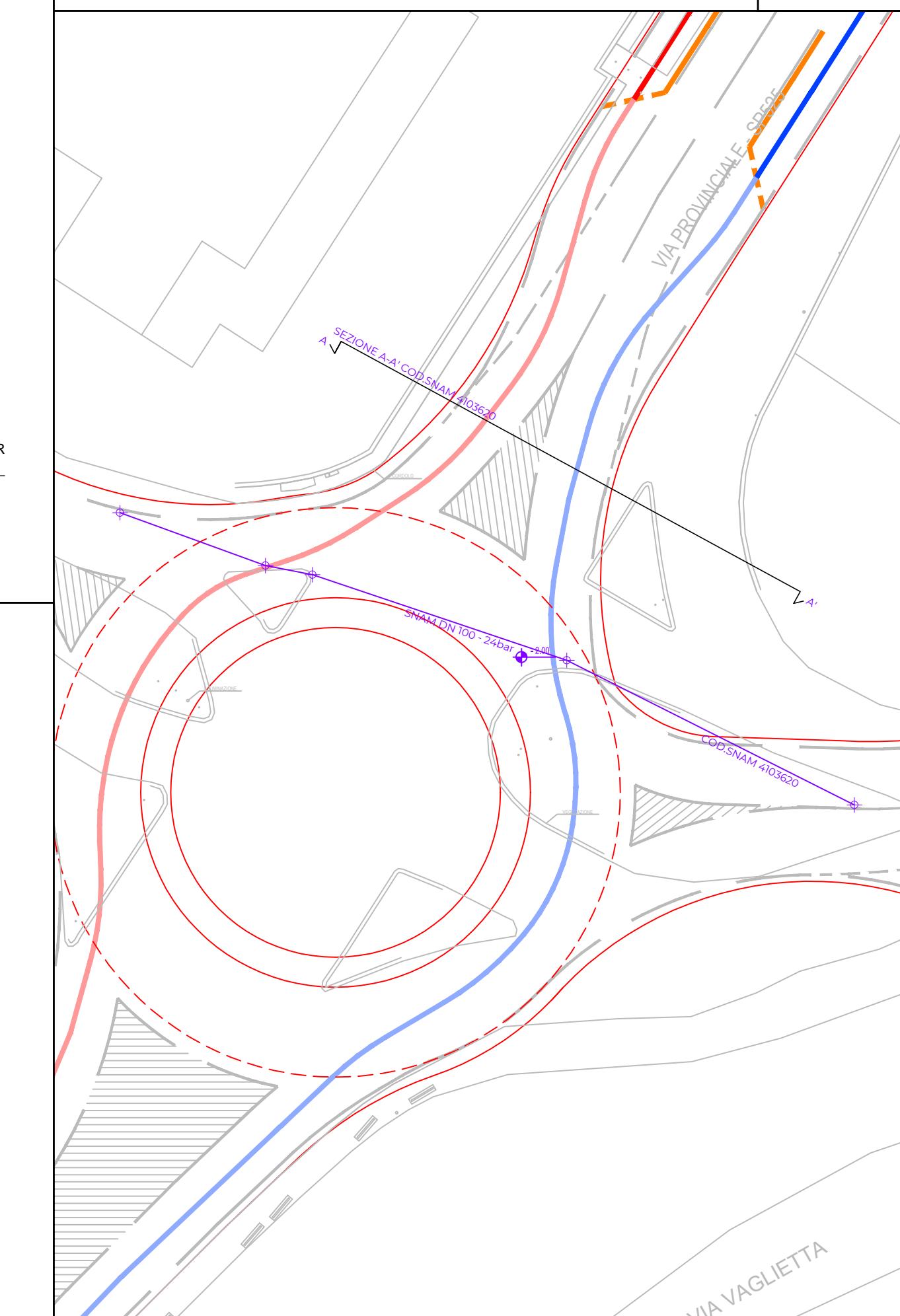
PERCHE TRATTA INTERESSATA

DA MODIFICHE STRADALI SUPERFICIALI

INTERFERENZA CON RETE SNAM

SEZ. A-A' PLANIMETRIA DI PROGETTO

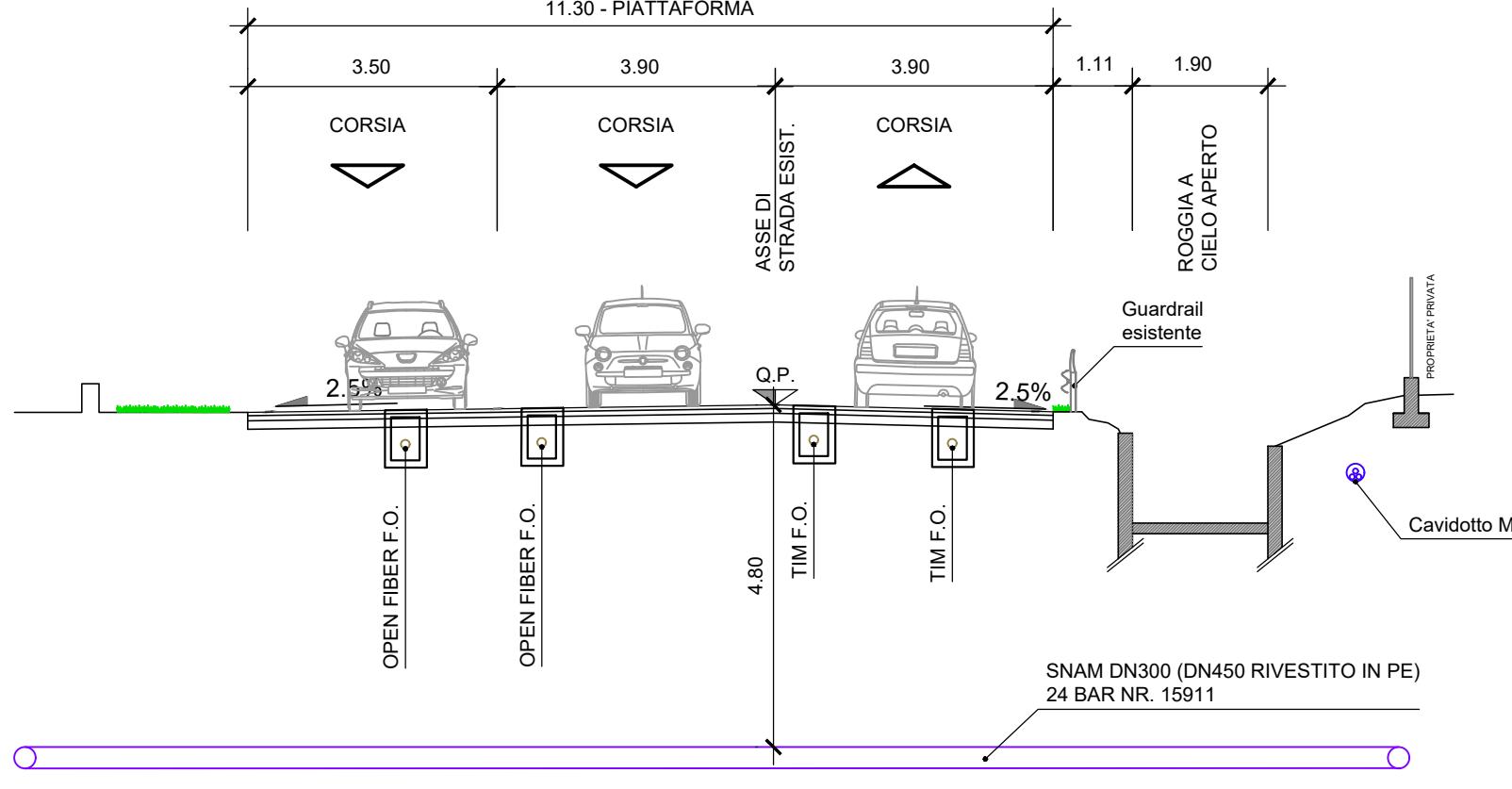
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SNAM
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STATO DI FATTO

SCALA 1:100

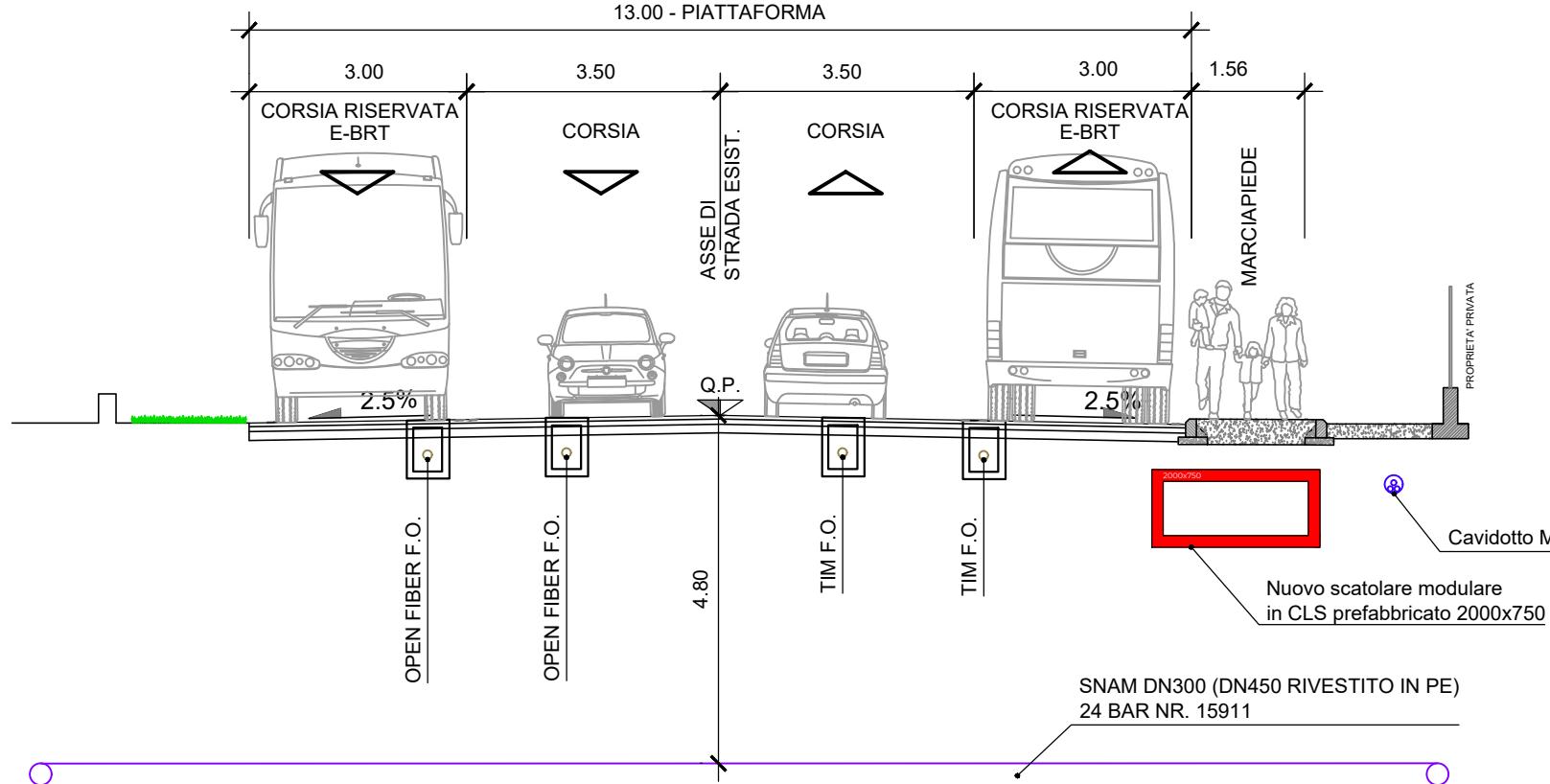
11.30 - PIATTAFORMA



STATO DI FATTO

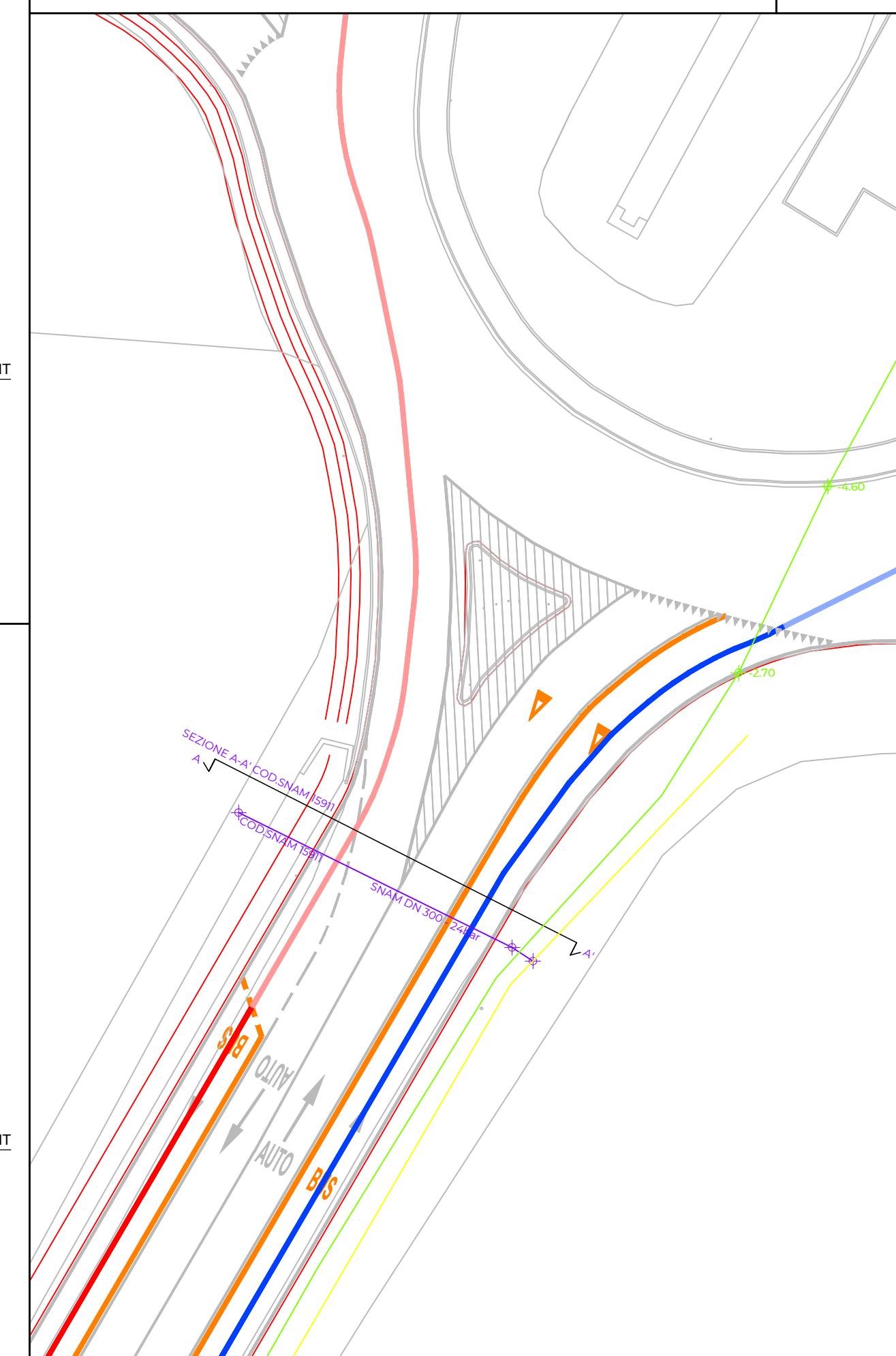
SCALA 1:100

13.00 - PIATTAFORMA



INTERFERENZA CON RETE SNAM SEZ. A-A' PLANIMETRIA DI PROGETTO

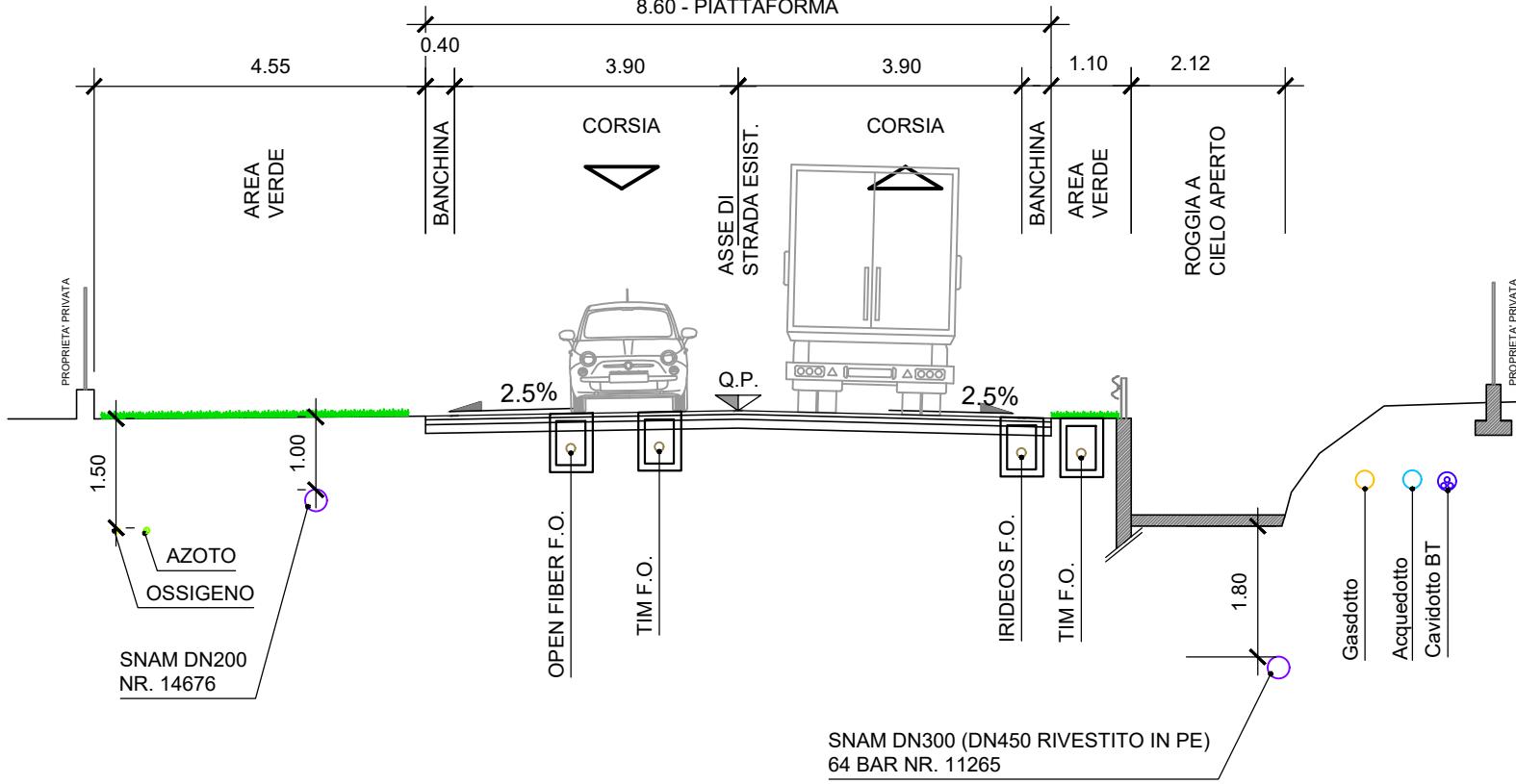
TAV.
SNAM
15911



STATO DI FATTO

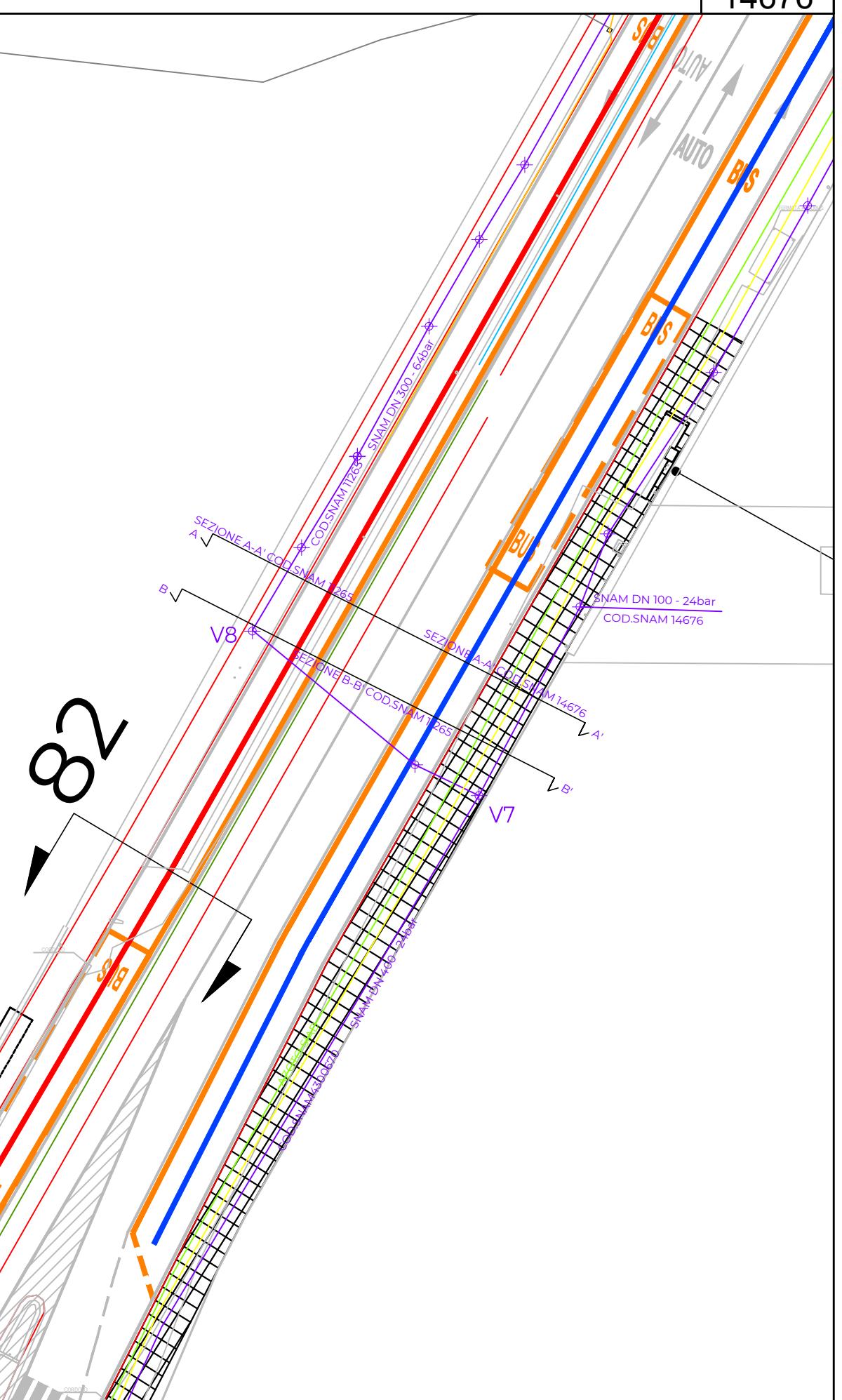
SCALA 1:100

8.60 - PIATTAFORMA



INTERFERENZA CON RETE SNAM SEZ. A-A' PLANIMETRIA DI PROGETTO

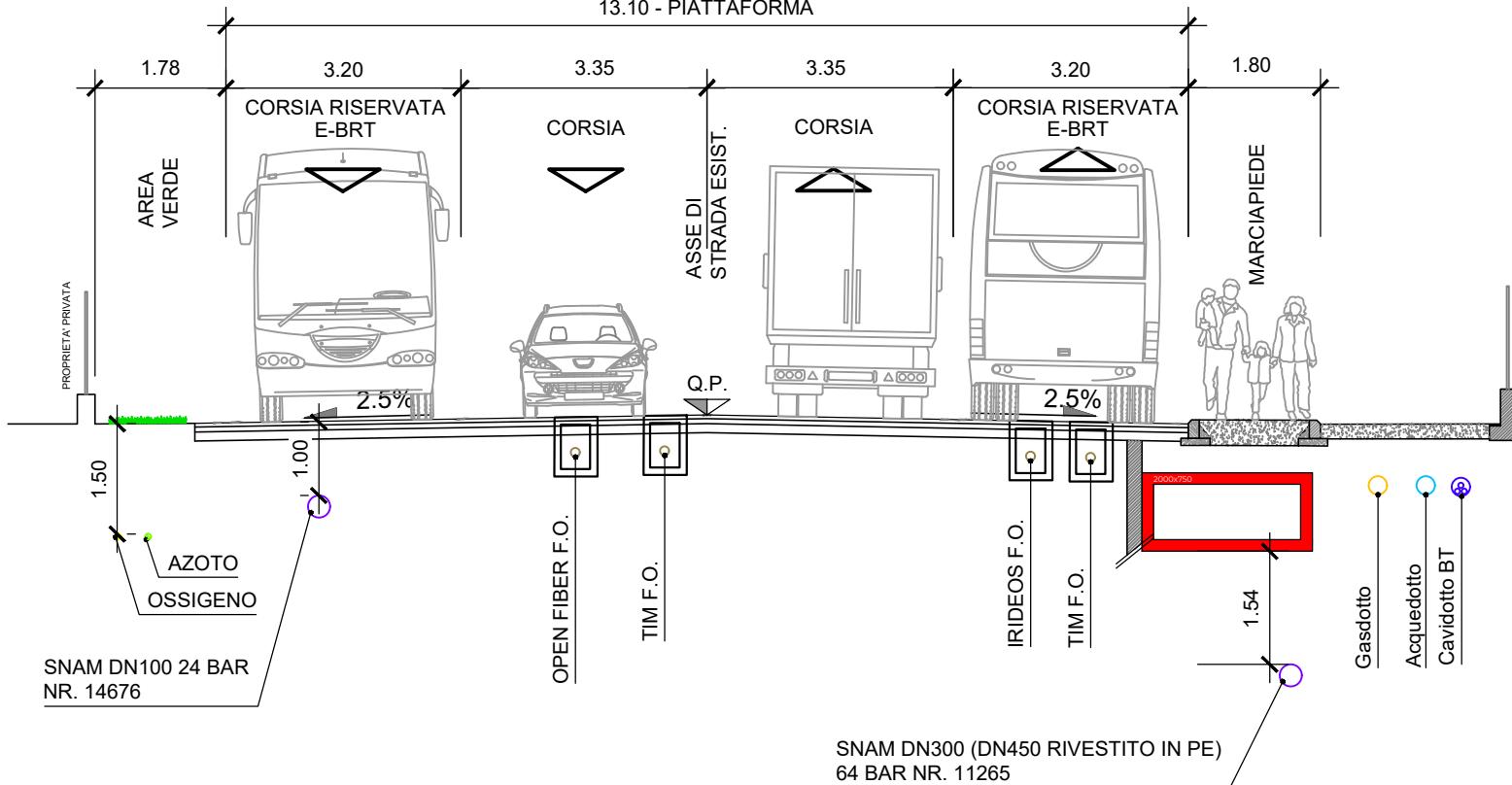
TAV.
SNAM
11265
14676



STATO DI PROGETTO

SCALA 1:100

13.10 - PIATTAFORMA



STATO DI FATTO

SCALA 1:10

12.95 - PIATTAFORMA

0.25 8.15 4.15 0.25 3.50 3.50 0.95 2.12

CORSIA

CORSIA

ASSE DI STRADA ESIST.

BANCHINA

ROGGIA A CIELO APERTO

Guardrail esistente

2.5% Q.P.

2.5%

TELECOM

OPENFIBER

F.O. IRIDEOS

F.O. TIM

SNAM NR. 11265

SNAM NR. 14676

V7

PROGETTO

SCALA 1:10

13.10 - PIATTAFORMA

2.15

6.55

3.50

3.05

3.05

6.55

3.50

3.20

MARCIAPIEDE

CORSIA RISERVATA E-BRT

CORSIA

CORSIA

CORSIA RISERVATA E-BRT

MARCIAPIEDE

ASSE DI STRADA ESIST.

Q.P.

2.5%

2.5%

TELECOM

OPENFIBER

SNAM NR. 11265

F.O. IRIDEOS

Protezione meccanica da attività di cantiere?

Nuovo scatolone modulare in CLS prefabbricato 2000x1150

2000x1150

0.65

1.54

3.31

Gasdotto

Acquedotto

P.P.

Barriera esiste

V7

V8

1 NR. 14676

INTERFERENZA CON RETE SNAM

SEZ. B-B' PLANIMETRIA DI PROGETTO

TAV.
SNAM
11265

