



MINISTERO DELLE INFRASTRUTTURE E DEI TRASPORTI



E.N.A.C. ENTE NAZIONALE per L'AVIAZIONE CIVILE

Committente Principale



AEROPORTO INTERNAZIONALE DI FIRENZE - "AMERIGO VESPUCCI"

Opera

PROJECT REVIEW - PIANO DI SVILUPPO AEROPORTUALE AL 2035

itolo Documento Completo

VBT3 — VIABILITÀ PRINCIPALE TRATTO "AB" Booklet sezioni trasversali Nodo B

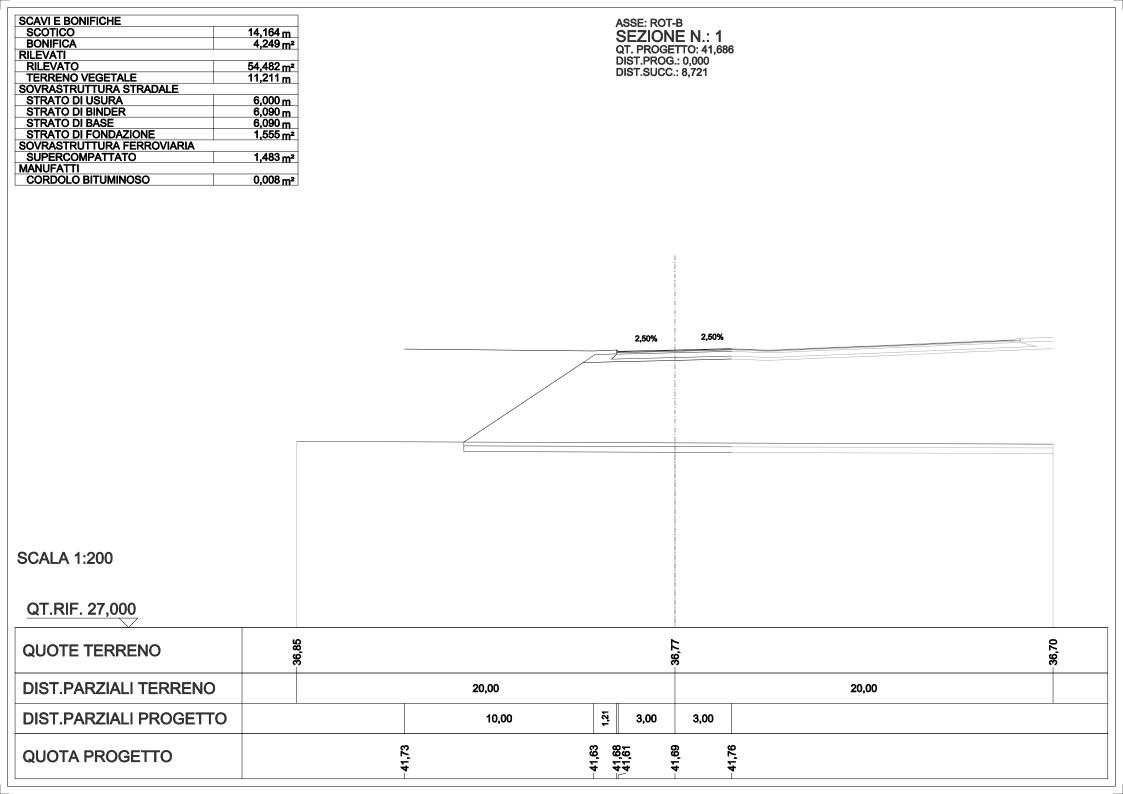
Livello di Progetto

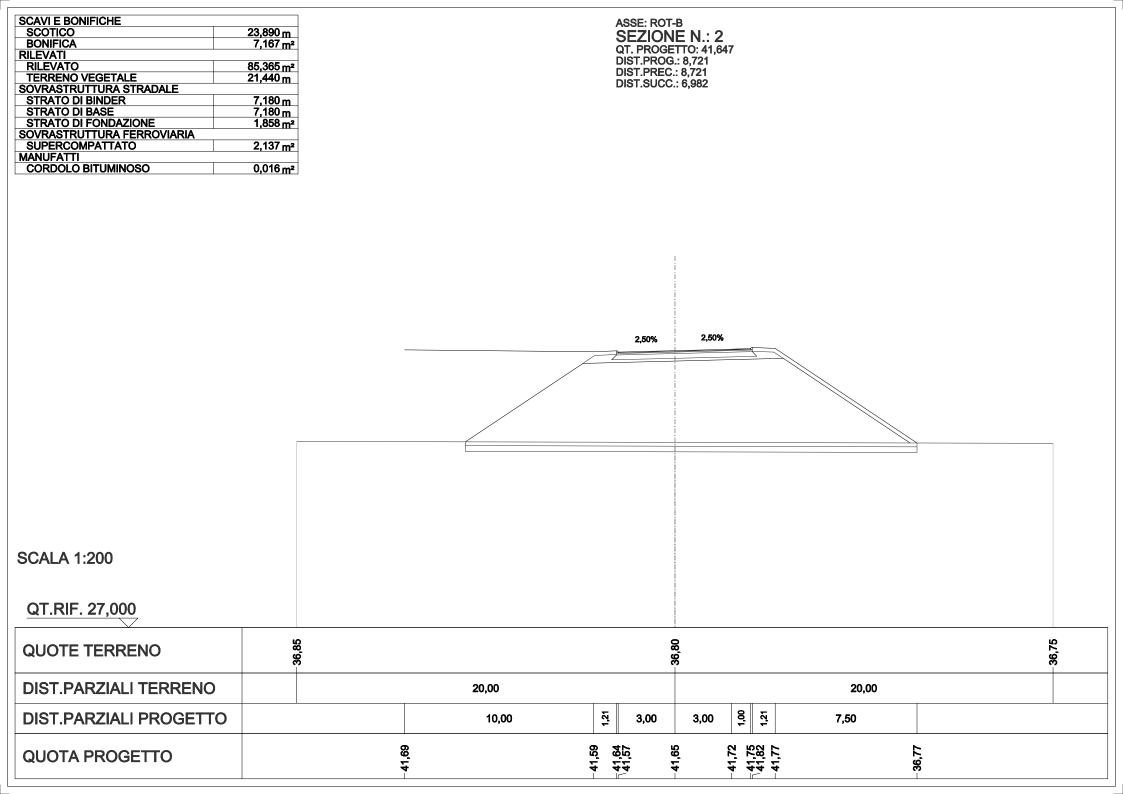
SCHEDE DI APPROFONDIMENTO PROGETTUALE A LIVELLO MINIMO DI PROGETTO DI FATTIBILITÀ TECNICA ED ECONOMICA

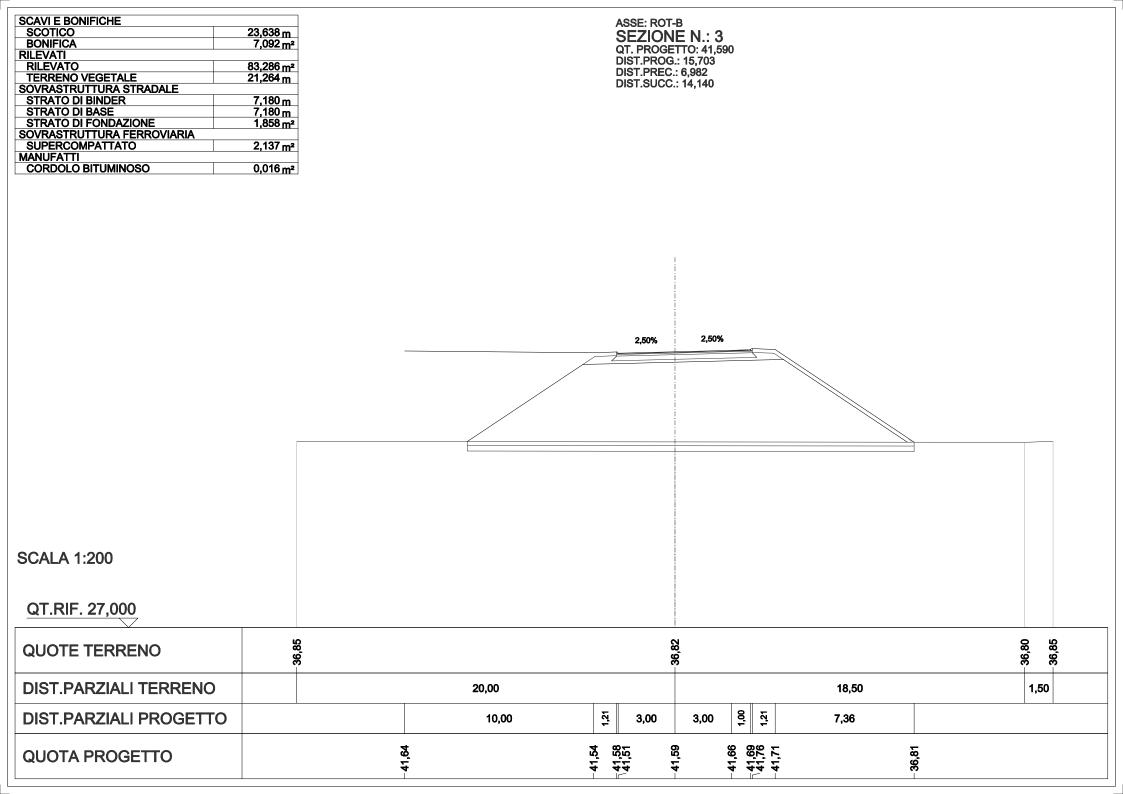
LIV	REV	DATA EMISSIONE	SCALA	CODICE FILE COMPLETO
PSA	01	MARZO 2024	_	FLR-MPL-PSA-VBT3-017-OC-SE TITOLO RIDOTTO
				Book sez trasv B

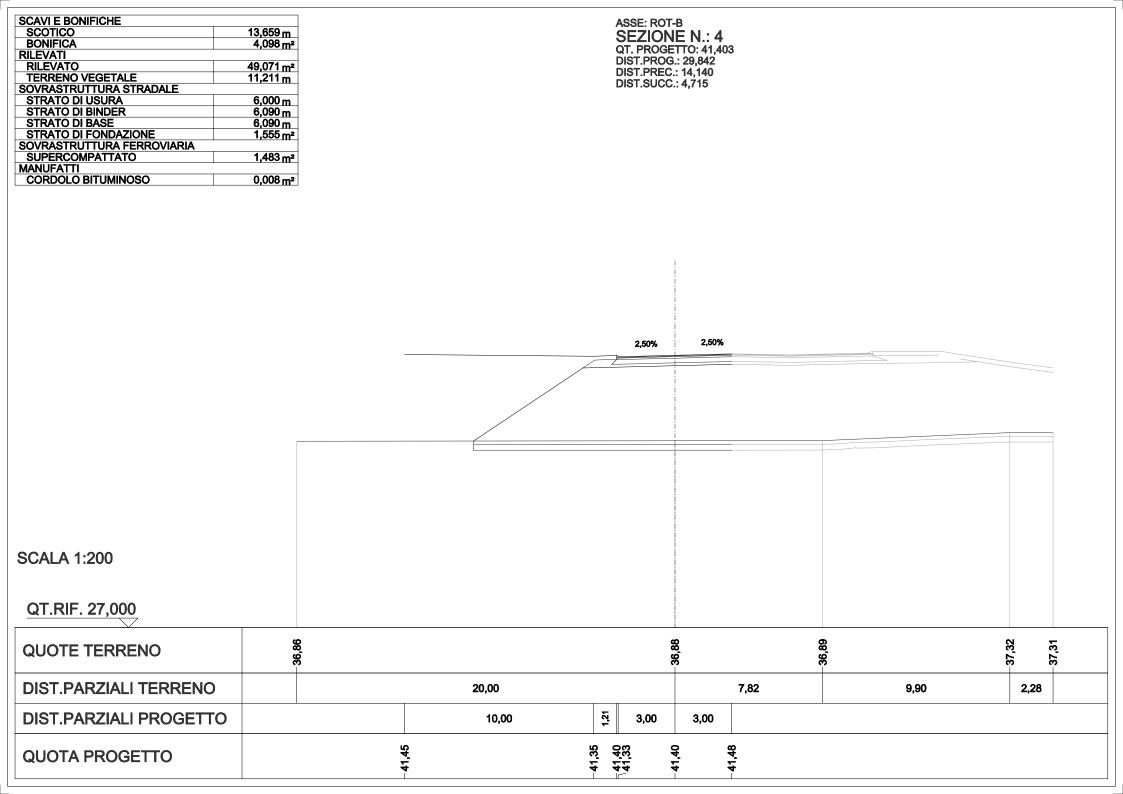
01	03/24	EMISSIONE PER PROCEDURA VIA-VAS	TAE , SITECO	A. BURCHI	L. TENERANI
00	10/22	EMISSIONE PER DIBATTITO PUBBLICO	TAE , SITECO	D. VESTRINI	L.TENERANI
REV	DATA	DESCRIZIONE	REDATTO	VERIFICATO	APPROVATO

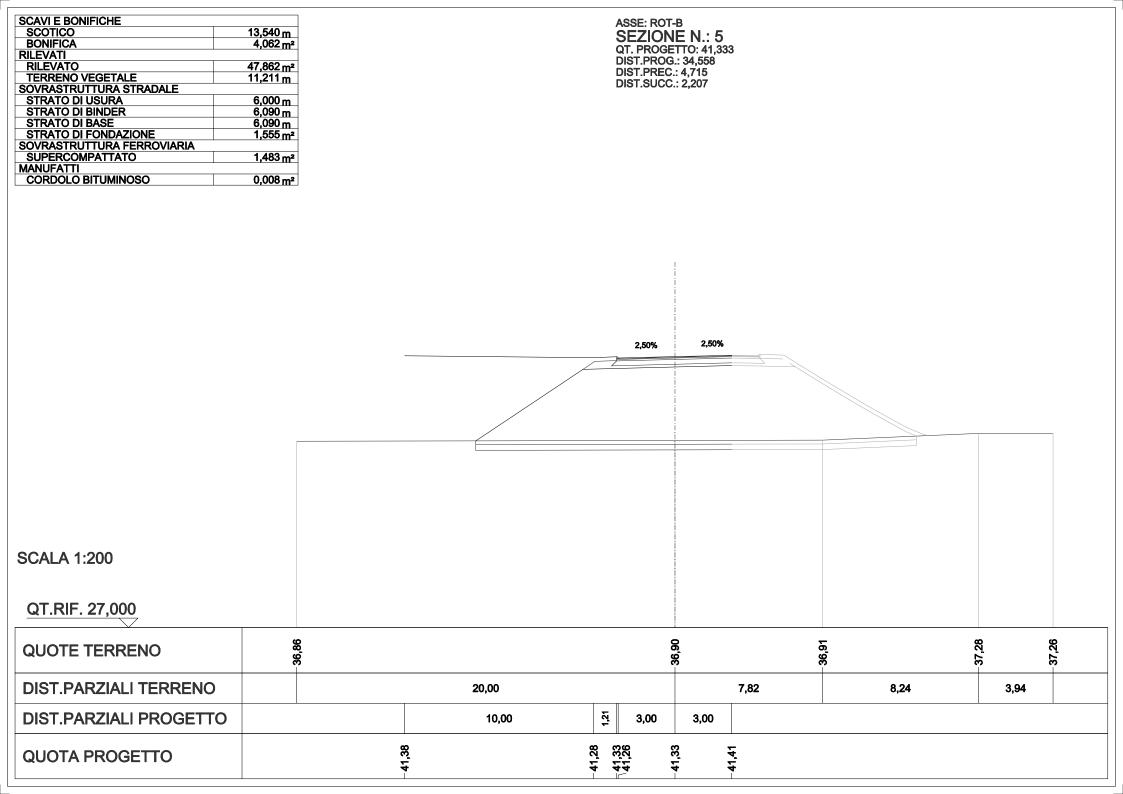
COMMITTENTE PRINCIPALE	GRUPPO DI PROGETTAZIONE	SUPPORTI SPECIALISTICI
Toscana Aeroporti ACCOUNTABLE MANAGER Dott. Vittorio Fanti	Toscana Aeroporti e n g i n e e r i n g DIRETTORE TECNICO Ing. Lorenzo Tenerani Ordine degli Ingegneri di Massa Carrara n'631	PROGETTAZIONE SPECIALISTICA TOSCANA Aeroporti engineering Ing. Lorenzo Tenerani Ordine degli Ingegneri di Massa Carrara n'631
POST HOLDER PROGETTAZIONE Ing.Lorenzo Tenerani		SUPPORTO SPECIALISTICO SITECO Ing. Andrea Burchi
POST HOLDER MANUTENZIONE Ing. Nicola O'ippolito	RESPONSABILE INTEGRAZIONE PRESTAZIONI SPECIALISTICHE Ing. Lorenzo Tenerani Ordine degli Ingegneri di Massa Carrara n°631	
POST HOLDER AREA DI MOVIMENTO Geom. Luca Ermini		

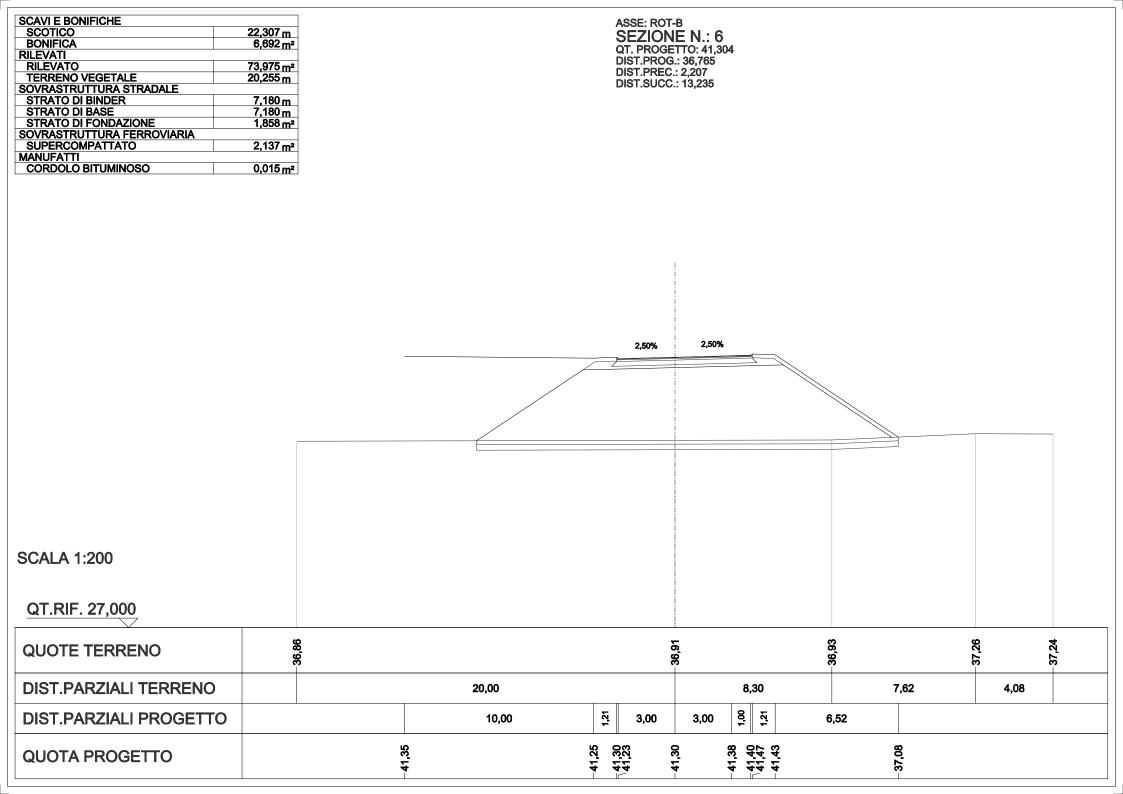


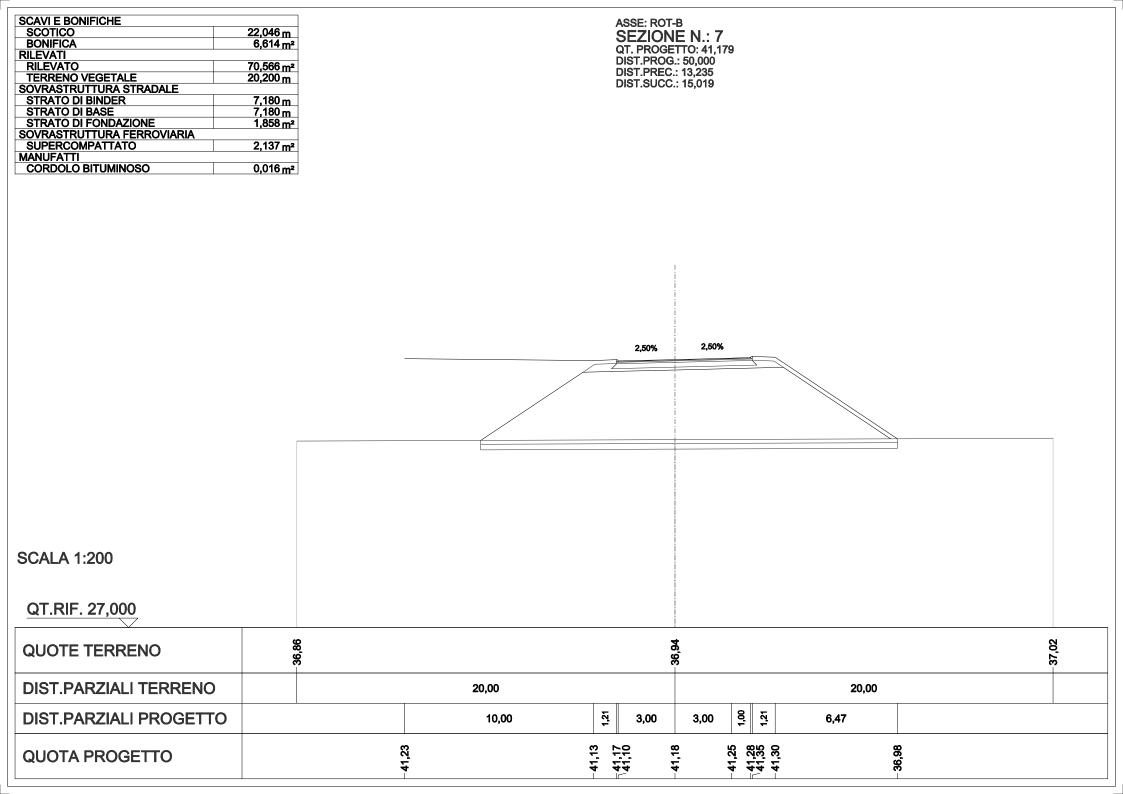


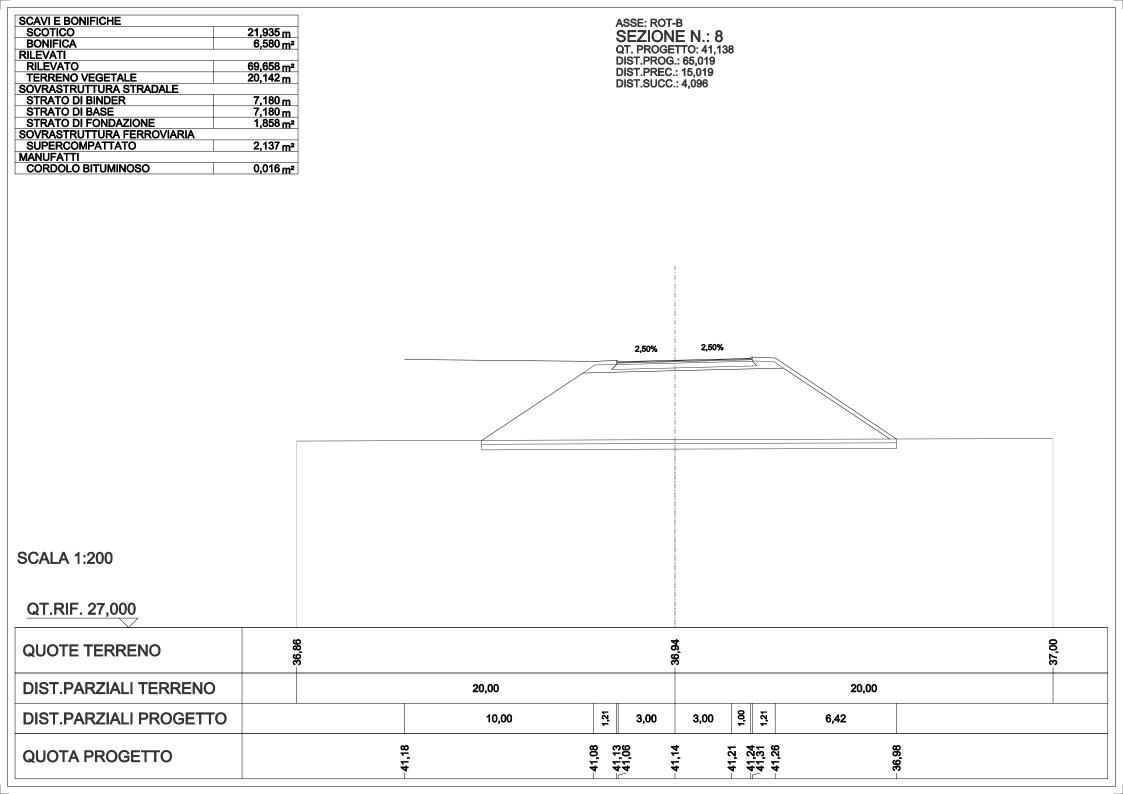


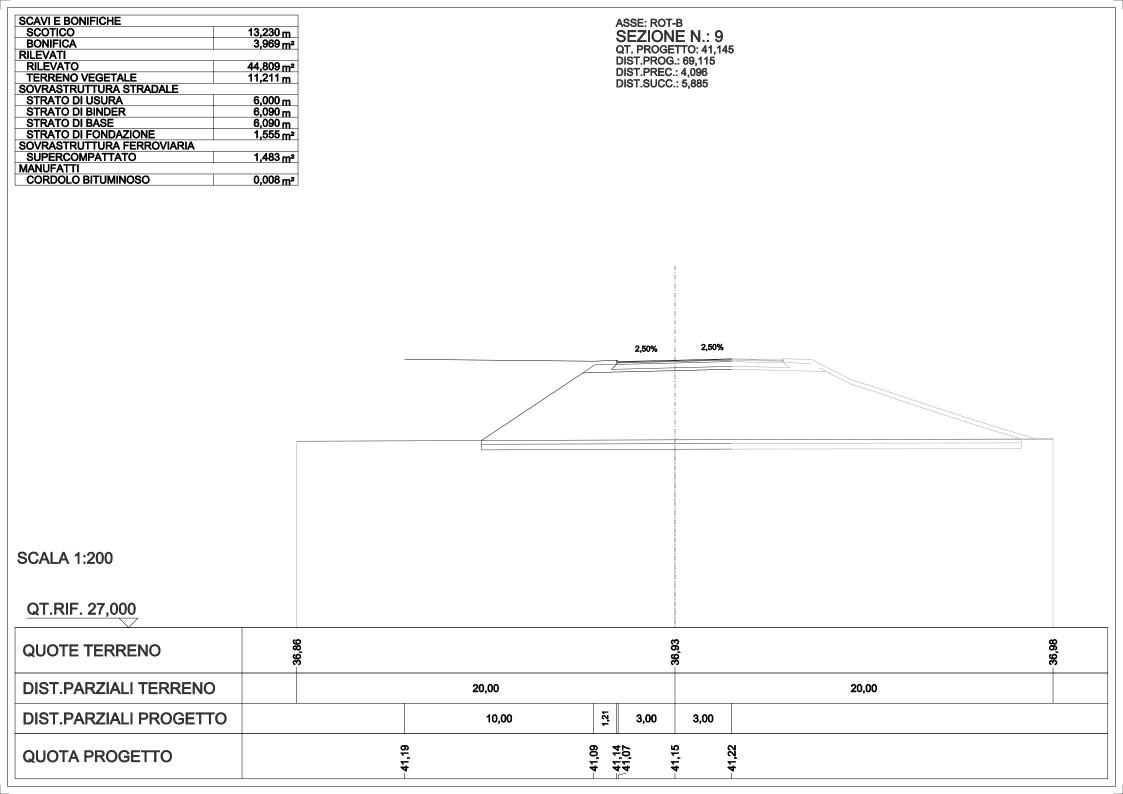


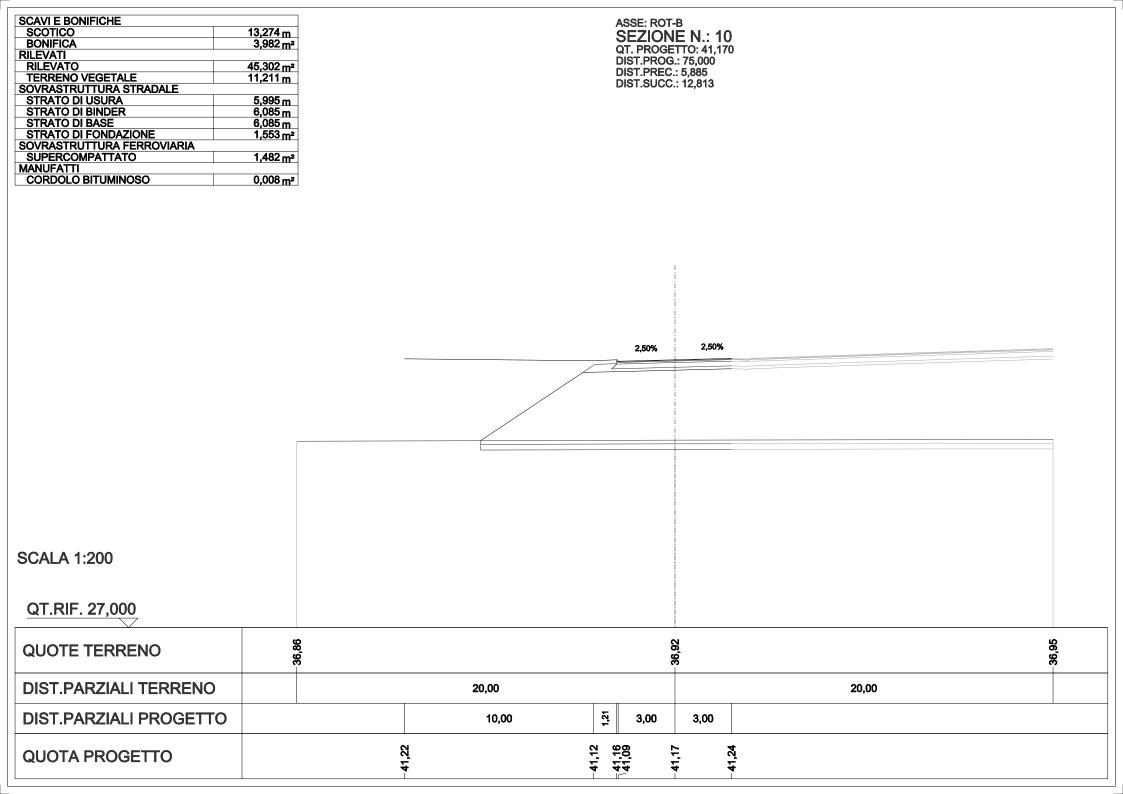


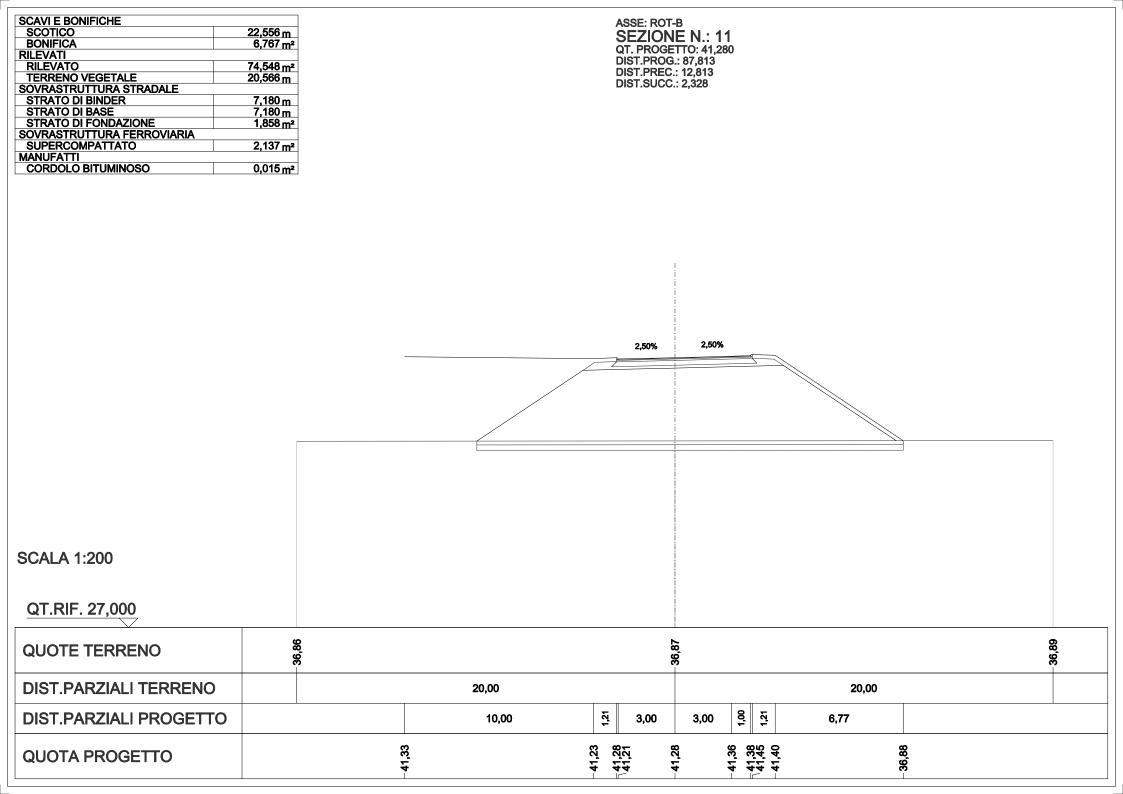


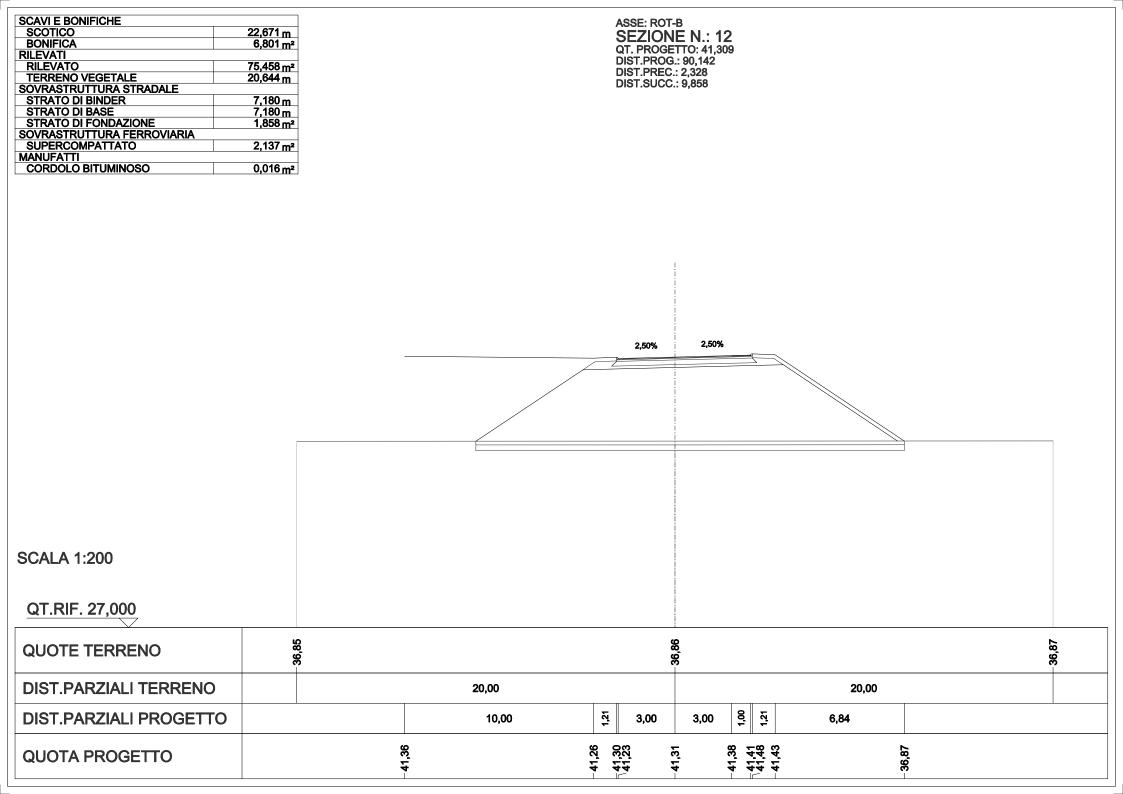


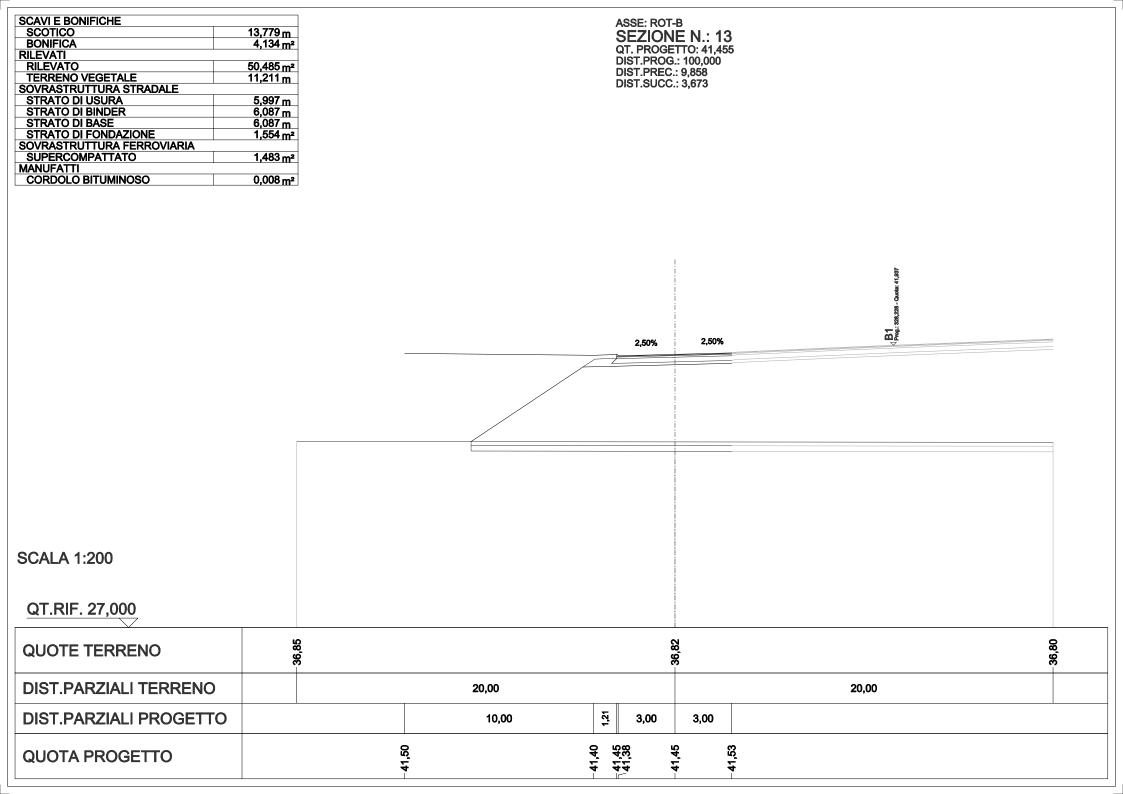


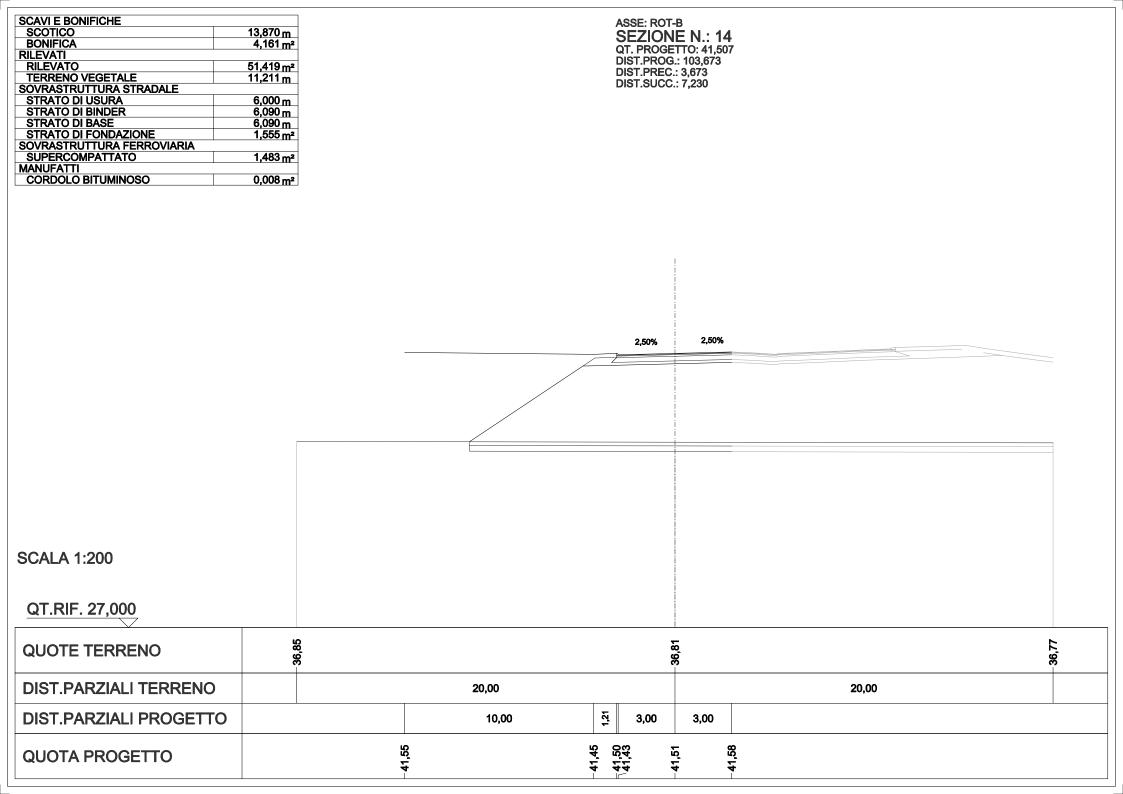


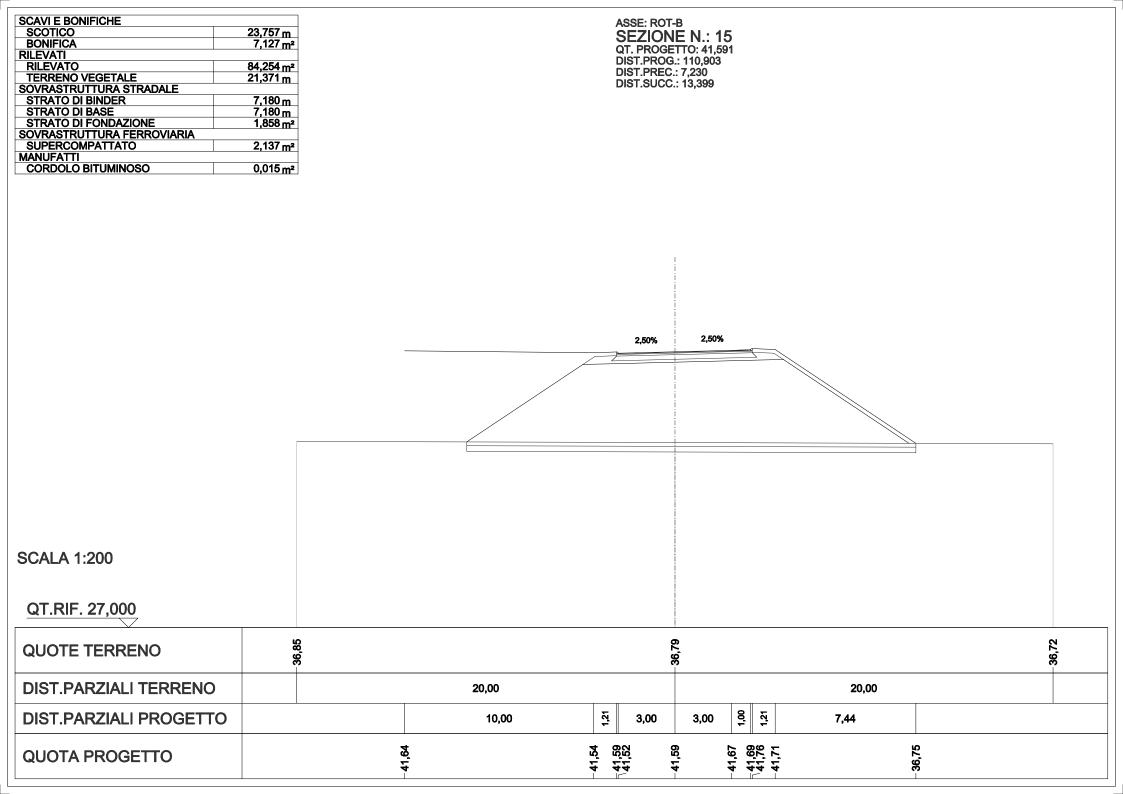


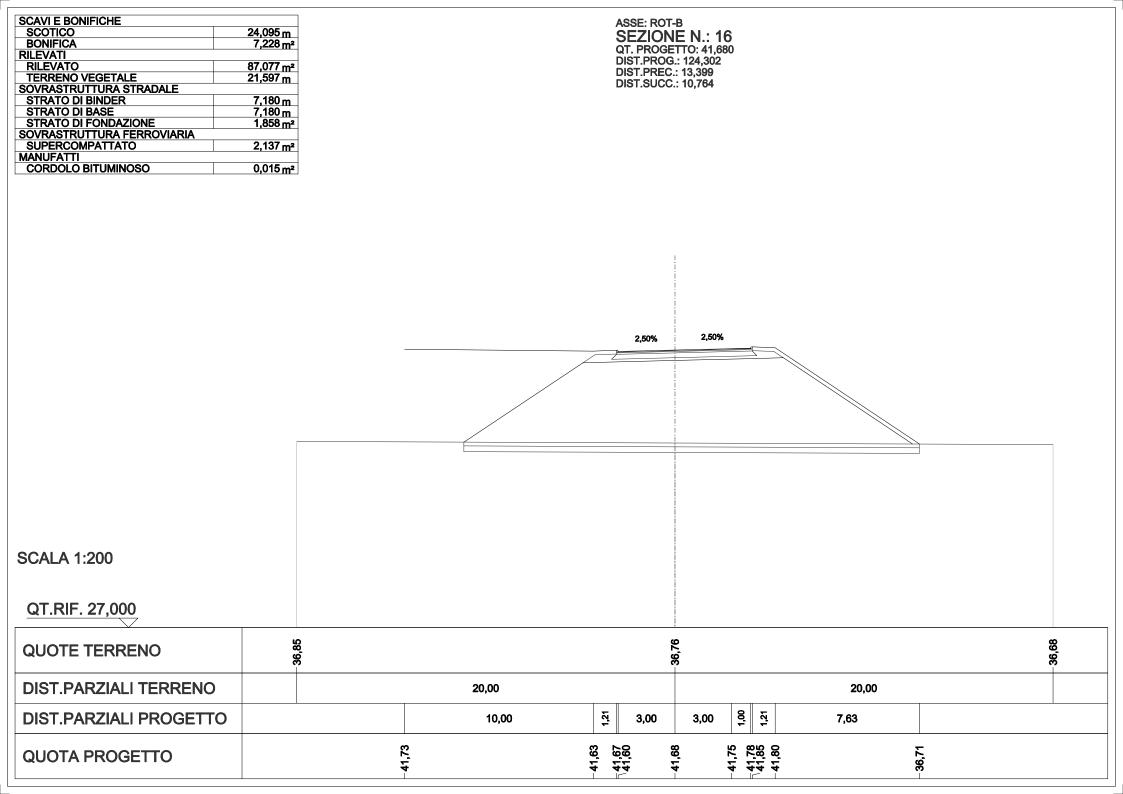


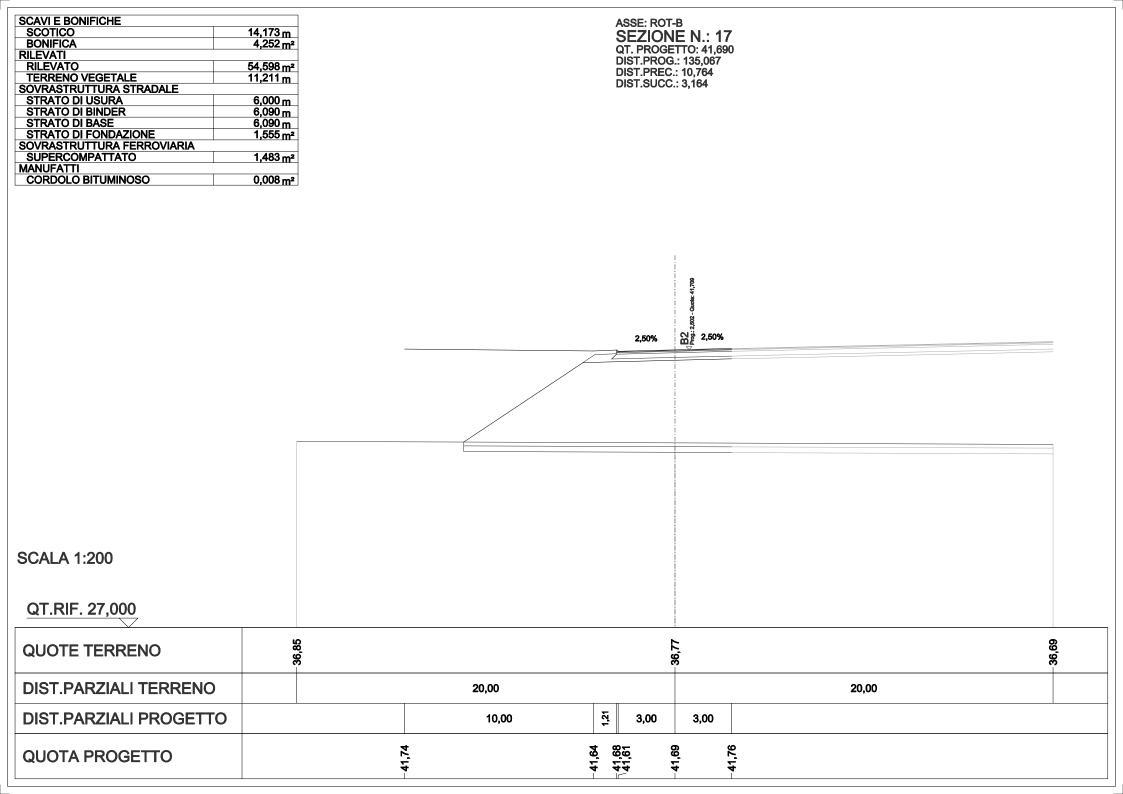


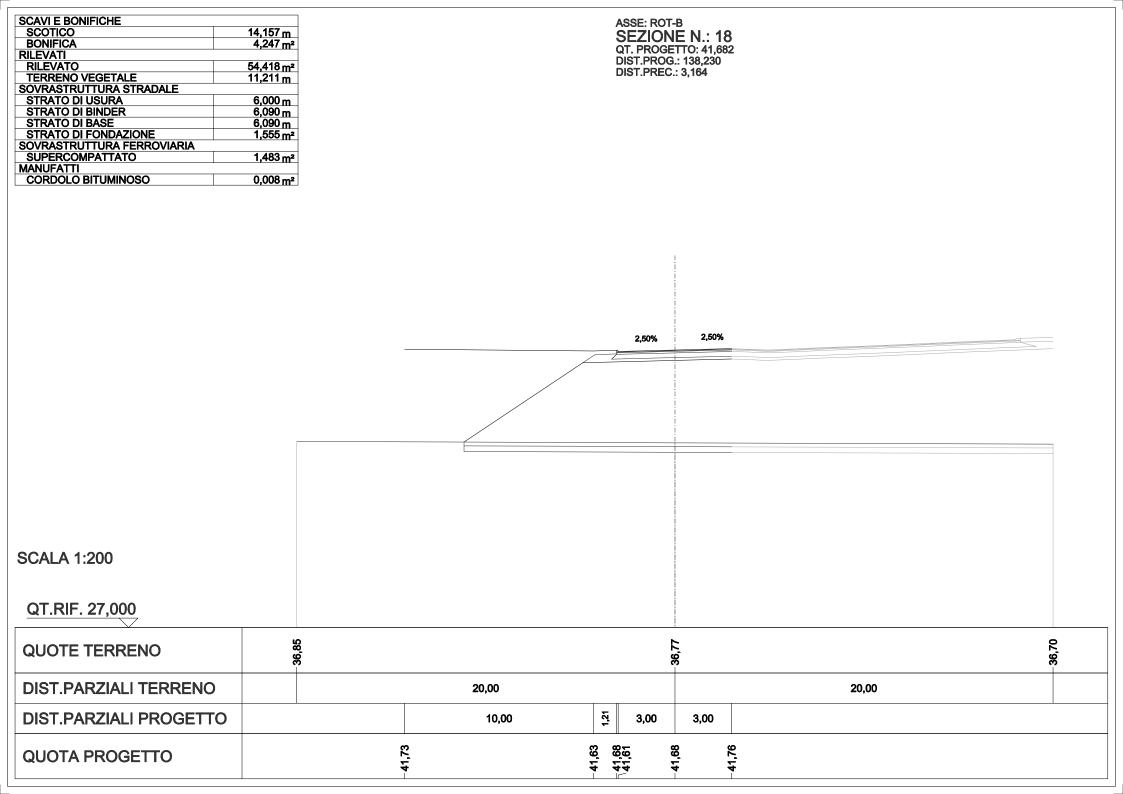












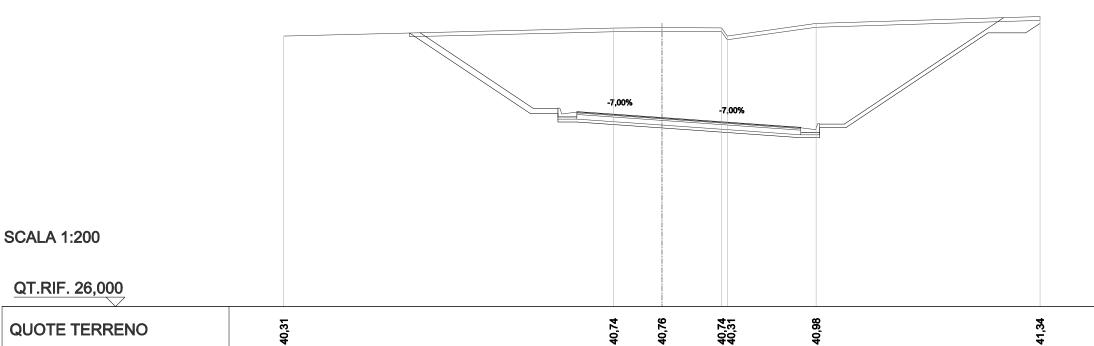
SCAVI E BONIFICHE 121,596 m² STERRO SCOTICO 33,344 m RILEVATI 0,029 m² **RILEVATO** 19,953 m TERRENO VEGETALE SOVRASTRUTTURA STRADALE 11,843 m 11,843 m STRATO DI USURA STRATO DI BINDER STRATO DI BASE 11,843 m 2,961 m² STRATO DI FONDAZIONE SOVRASTRUTTURA FERROVIARIA 2,076 m² SUPERCOMPATTATO MANUFATTI 0,476 m² 0,240 m² CANALETTA STRATO DI FONDAZIONE CANALETTA

DIST.PARZIALI TERRENO

DIST.PARZIALI PROGETTO

QUOTA PROGETTO

ASSE: B1 SEZIONE N.: 1 QT. PROGETTO: 36,000 DIST.PROG.: 0,000 DIST.SUCC.: 5,869



1,30 은 은

36,48 36,28 36,24 2,56

36,00

3,50

3,16

6,34

4,70

9,

35,56 35,49 35,66

<u>옥</u> 1,30

35,66

11,85

8,44

41,28

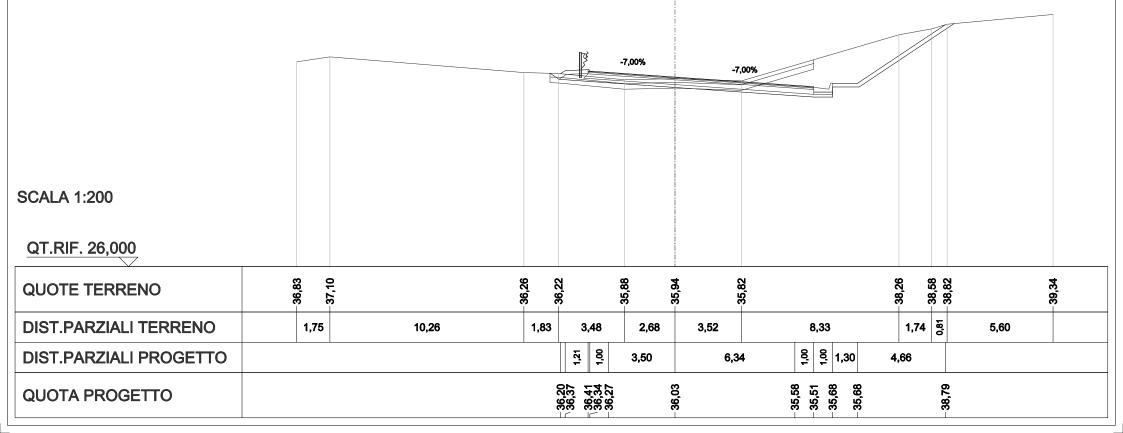
17,44

6,00

SCAVI E BONIFICHE	
STERRO	16,371 m ²
SCOTICO	13,948 m
BONIFICA	1,411 m²
RILEVATI	
RILEVATO	1,442 m ²
TERRENO VEGETALE	8,405 m
SOVRASTRUTTURA STRADALE	
STRATO DI USURA	11,843 m
STRATO DI BINDER	11,933 m
STRATO DI BASE	11,933 m
STRATO DI FONDAZIONE	3,013 m ²
SOVRASTRUTTURA FERROVIARIA	
SUPERCOMPATTATO	2,369 m ²
MANUFATTI	
CANALETTA	0,238 m ²
STRATO DI FONDAZIONE CANALETTA	0,120 m ²
CORDOLO BITUMINOSO	0,008 m ²

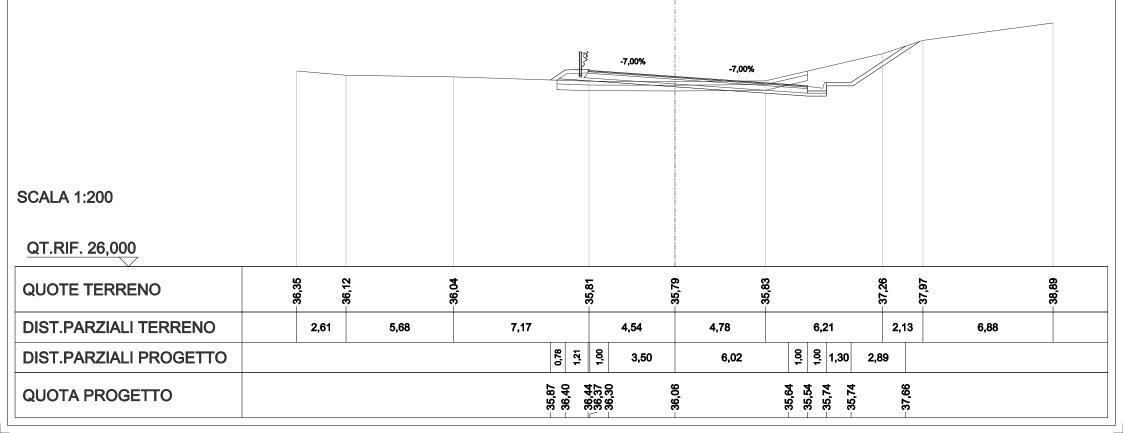
ASSE: B1

SEZIONE N.: 2 QT. PROGETTO: 36,029 DIST.PROG.: 5,869 DIST.PREC.: 5,869 DIST.SUCC.: 5,869



STERRO	8,410 m ²
SCOTICO	13,257 m
BONIFICA	2,124 m ²
RILEVATI	
RILEVATO	2,908 m ²
TERRENO VEGETALE	6,923 m
SOVRASTRUTTURA STRADALE	
STRATO DI USURA	11,517 m
STRATO DI BINDER	11,607 m
STRATO DI BASE	11,607 m
STRATO DI FONDAZIONE	2,931 m ²
SOVRASTRUTTURA FERROVIARIA	
SUPERCOMPATTATO	2,320 m ²
MANUFATTI	
CANALETTA	0,238 m ²
STRATO DI FONDAZIONE CANALETTA	0,120 m ²
CORDOLO BITUMINOSO	0,008 m ²

ASSE: B1 SEZIONE N.: 3 QT. PROGETTO: 36,059 DIST.PROG.: 11,739 DIST.PREC.: 5,869 DIST.SUCC.: 13,261



SCOTICO	SEZIONE N.: 4					
			-4,55%	4,55%		
SCALA 1:200 QT.RIF. 25,000 QUOTE TERRENO	37,13	37,02 36,87 36,20 36,20	35,96	35,76	37,80	
DIST.PARZIALI TERRENO	8,44		,49	6,80 💆 1,71	10,24	
DIST.PARZIALI PROGETTO		12,1	3,50	5,28		
QUOTA PROGETTO		- 36,45 - 36,45 - 7	66 6 66 6 67 4 6 68 6 68 6 68 6 68 6 68 6 68 6 68 6	- 35,99 - 35,91 - 35,96 - 35,59		

SCAVI E BONIFICHE	
STERRO	1,650 m ²
SCOTICO	15,119 m
BONIFICA	3,419 m²
RILEVATI	
RILEVATO	10,188 m ²
TERRENO VEGETALE	4,449 m
SOVRASTRUTTURA STRADALE	
STRATO DI USURA	9,672 m
STRATO DI BINDER	9,852 m
STRATO DI BASE	9,852 m
STRATO DI FONDAZIONE	2,526 m ²
SOVRASTRUTTURA FERROVIARIA	
SUPERCOMPATTATO	2,535 m ²
MANUFATTI	
CORDOLO BITUMINOSO	0,016 m ²

SCALA 1:200

QT.RIF. 25,000

QUOTE TERRENO

QUOTA PROGETTO

DIST.PARZIALI TERRENO

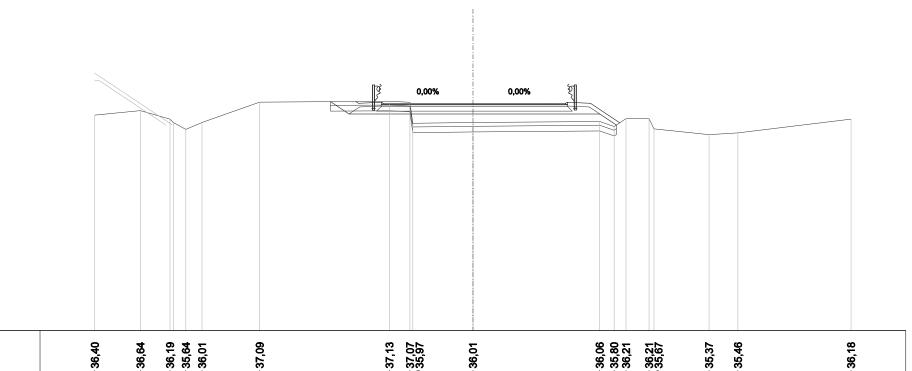
DIST.PARZIALI PROGETTO

1,57

3,05

6,86

ASSE: B1 SEZIONE N.: 5 QT. PROGETTO: 37,007 DIST.PROG.: 49,592 DIST.PREC.: 24,592 DIST.SUCC.: 11,356



3,18

3,76

37,01

8

1,2

37,12 37,03 37,01 37,01 37,01 6,71

3,92

9,1

1,21

37,01 36,98 37,08 37,03

1,55

35,99

1,53

2,91

5,98



SCALA 1:200

QT.RIF. 25,000

QUOTE TERRENO

QUOTA PROGETTO

DIST.PARZIALI TERRENO

DIST.PARZIALI PROGETTO

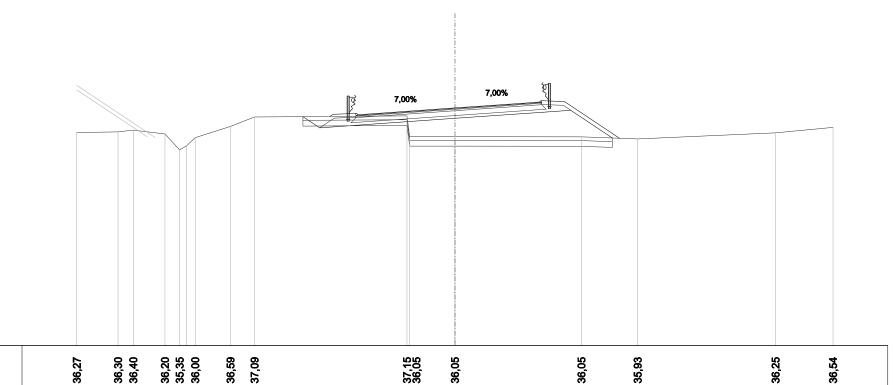
1,68

1,87

8,06

1,21

ASSE: B1 SEZIONE N.: 6 QT. PROGETTO: 37,571 DIST.PROG.: 60,948 DIST.PREC.: 11,356 DIST.SUCC.: 14,052



2,39

4,14

6,69

3,50

6, 9,

1,21

37,82 37,86 37,96 37,91 2,97

35,97

2,91

7,29

3,04

SCAVI E BONIFICHE SCOTICO BONIFICA RILEVATI RILEVATO TERRENO VEGETALE SOVRASTRUTTURA STRADALE STRATO DI USURA STRATO DI BINDER STRATO DI BASE STRATO DI FONDAZIONE SOVRASTRUTTURA FERROVIARIA SUPERCOMPATTATO MANUFATTI CORDOLO BITUMINOSO	16,948 m 5,084 m ² 28,648 m ² 9,076 m 9,900 m 10,080 m 10,080 m 2,583 m ² 2,593 m ² 0,016 m ²		ASSE: B1 SEZIONE N.: 7 QT. PROGETTO: 38,404 DIST.PROG.: 75,000 DIST.PREC.: 14,052 DIST.SUCC.: 13,602	
			7,00%	
SCALA 1:200 QT.RIF. 26,000				
QUOTE TERRENO	-36,04	-36,23 -36,03 -35,48 -35,83 -35,83 -36,76 -37,05	-37,15 -35,97 -36,04	-36,39 -36,01 -36,54
DIST.PARZIALI TERRENO	3,64	1,36 8 5 2,56 8	7,01 을 1,80 8,81	<u>동</u> 3,41 1,72 5,05
DIST.PARZIALI PROGETTO			1,46 전 원 4,40 3,50 원 전	4,08
QUOTA PROGETTO			- 37,07 - 38,05 - 38,10 - 38,10 - 38,65 - 38,65 - 38,65	-38,74 -36,02

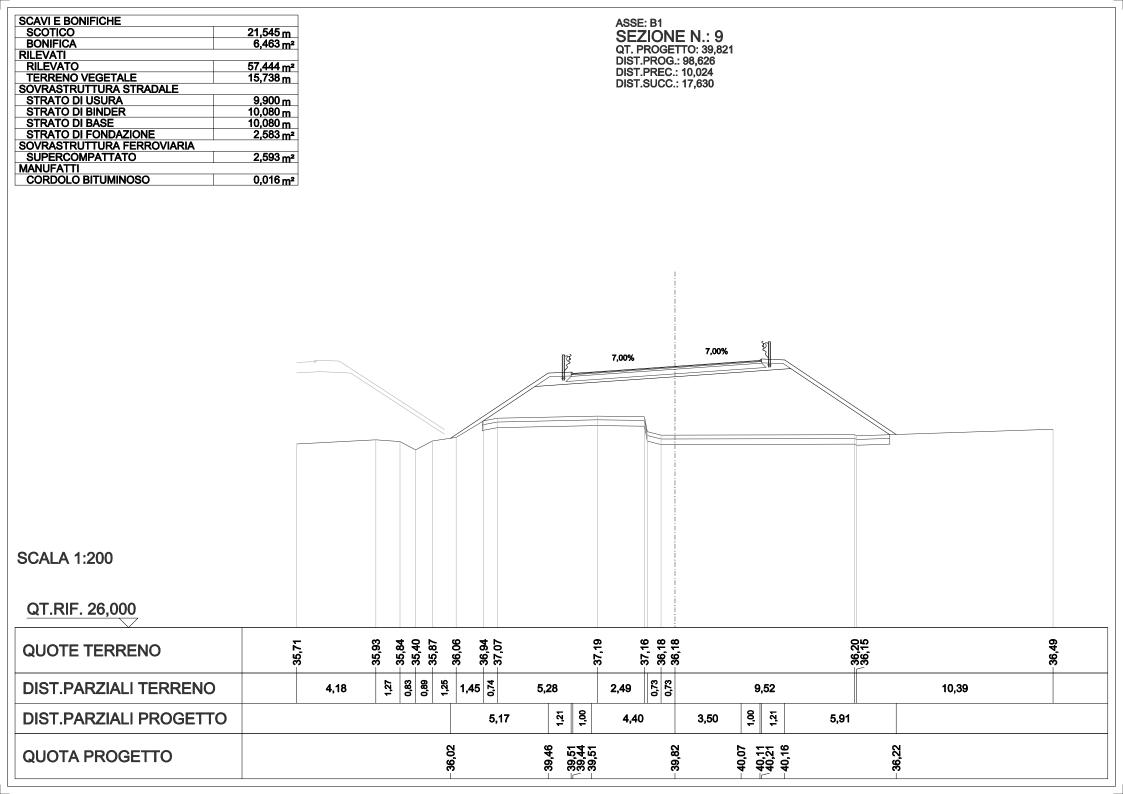
SCAVI E BONIFICHE SCOTICO BONIFICA RILEVATI RILEVATO TERRENO VEGETALE SOVRASTRUTTURA STRADALE STRATO DI USURA STRATO DI BINDER STRATO DI BASE STRATO DI FONDAZIONE SOVRASTRUTTURA FERROVIARIA SUPERCOMPATTATO MANUFATTI CORDOLO BITUMINOSO	19,877 m 5,963 m ² 44,227 m ² 12,164 m 9,900 m 10,080 m 10,080 m 2,583 m ² 2,593 m ² 0,015 m ²		QT. PRO DIST.PR DIST.PR	1 DNE N.: 8 IGETTO: 39,220 OG.: 88,602 EC.: 13,602 CC.: 10,024			
			7,00%	7,00%			7
SCALA 1:200 QT.RIF. 26,000							
QUOTE TERRENO	35,75	35,96 35,24 36,05 36,05	37,20 36,32	36,31	36,30		36,15
DIST.PARZIALI TERRENO	3,85			6,77	2,55	10,68	
DIST.PARZIALI PROGETTO			2,81 2 8 4,40	3,50 8 7 7	5,30		

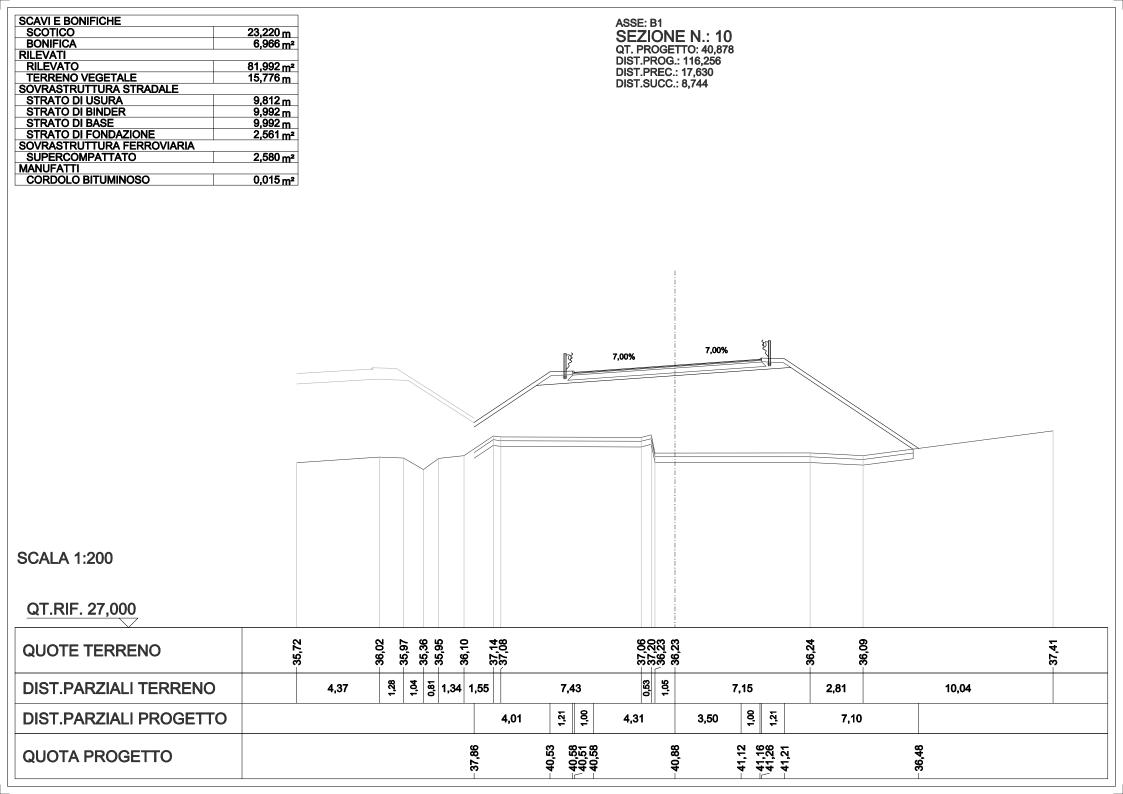
38,94 38,94 38,94 19,94

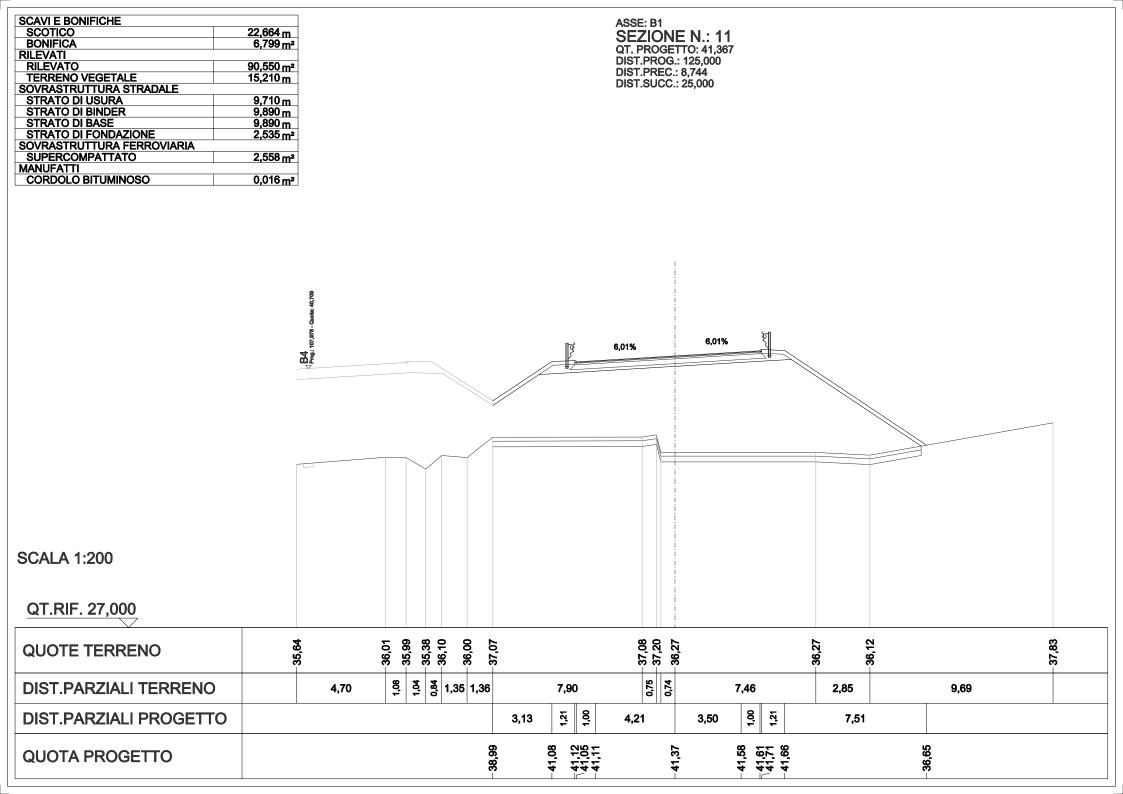
-36,99

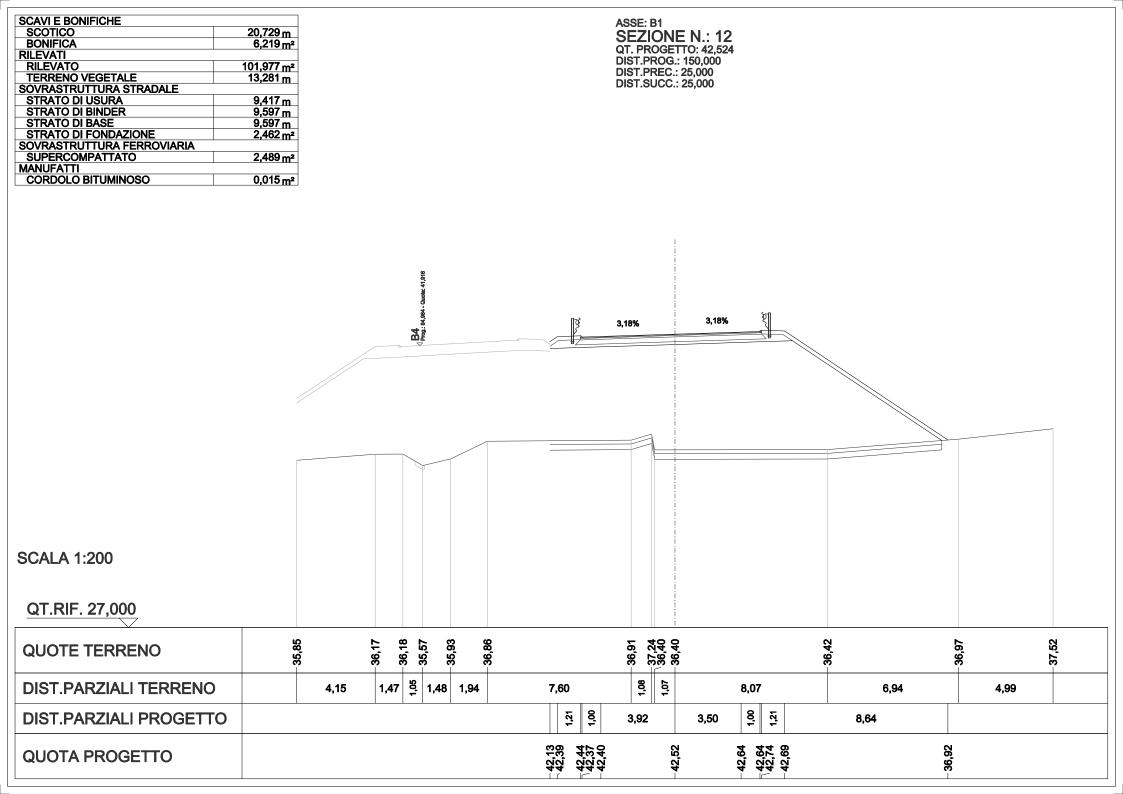
QUOTA PROGETTO

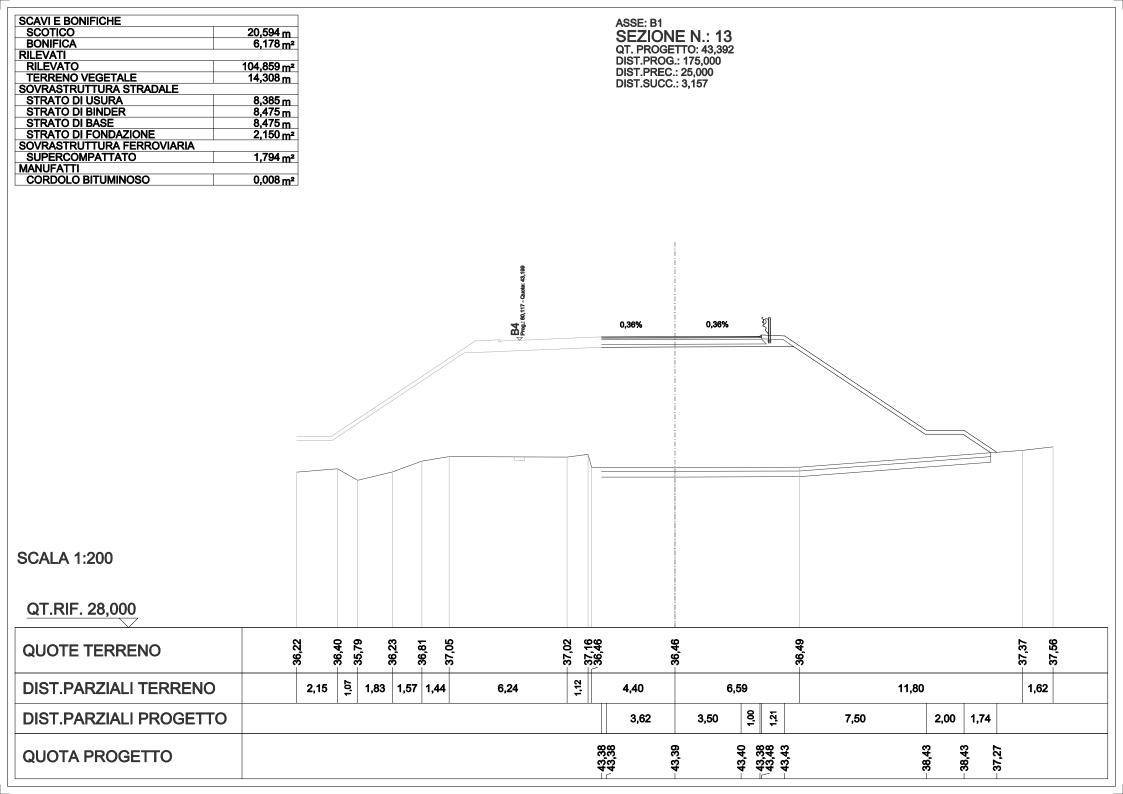
-39,46 | 39,50 | 39,60 | 39,56 -36,02

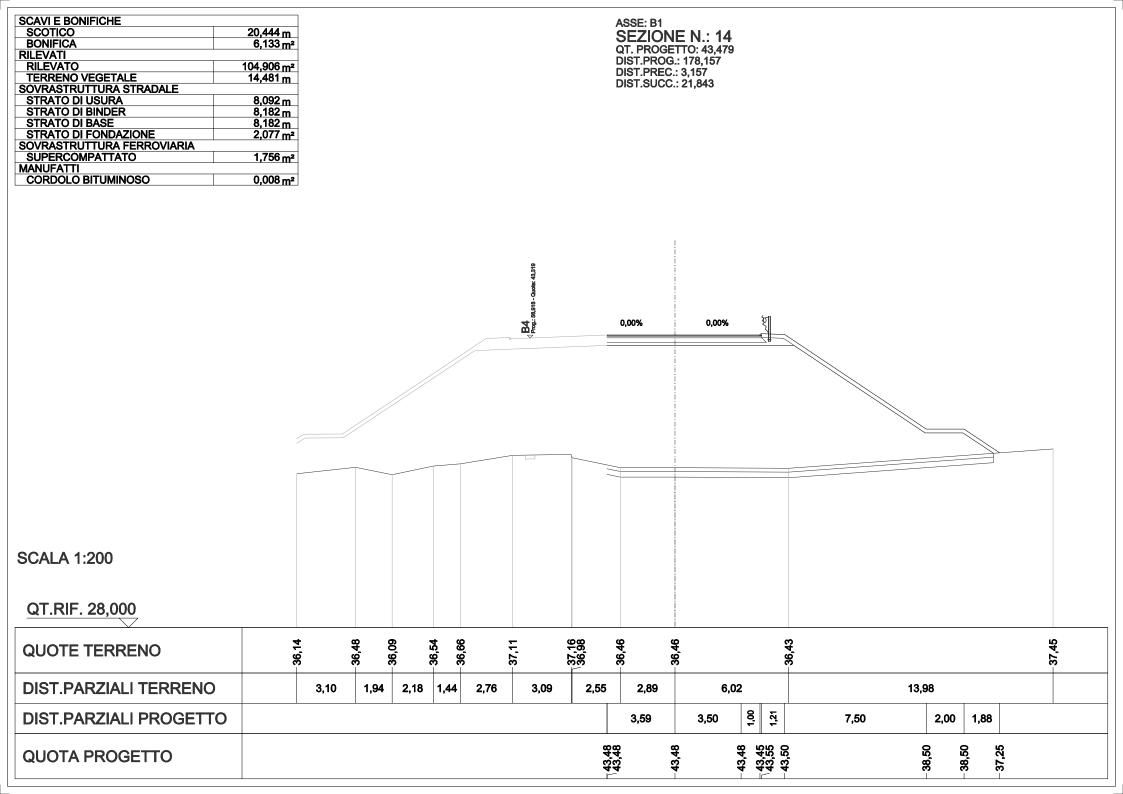


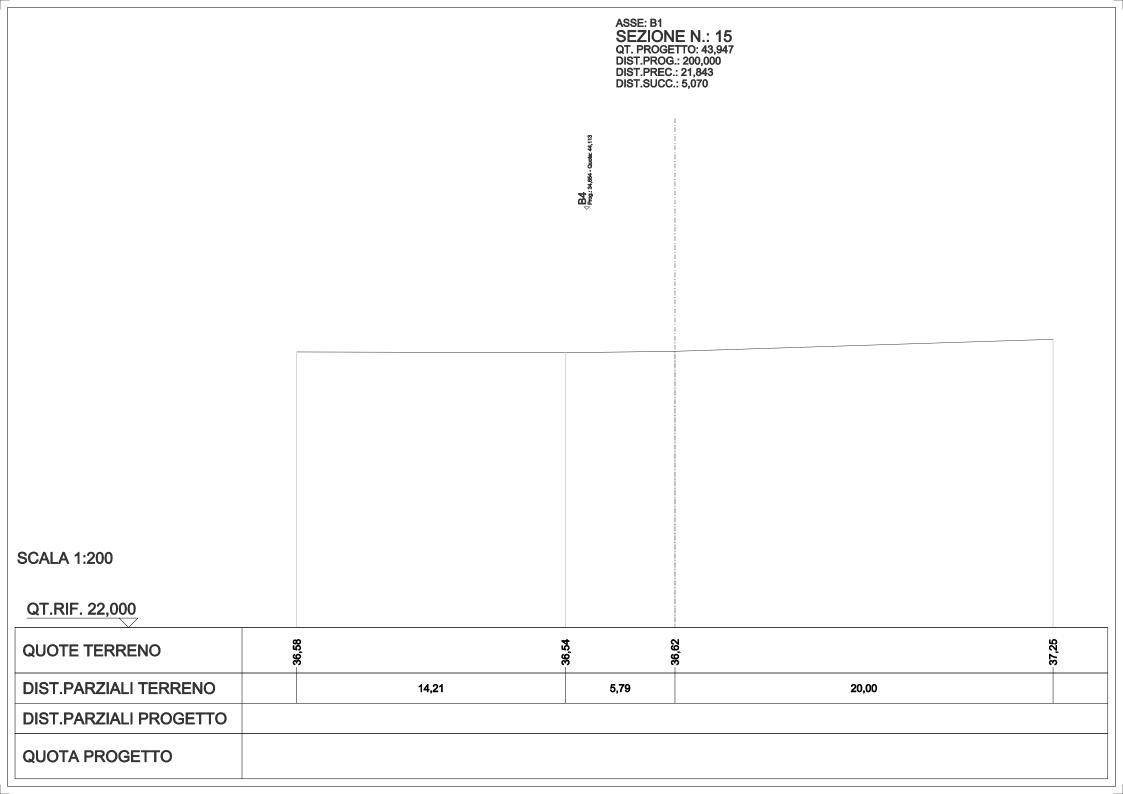


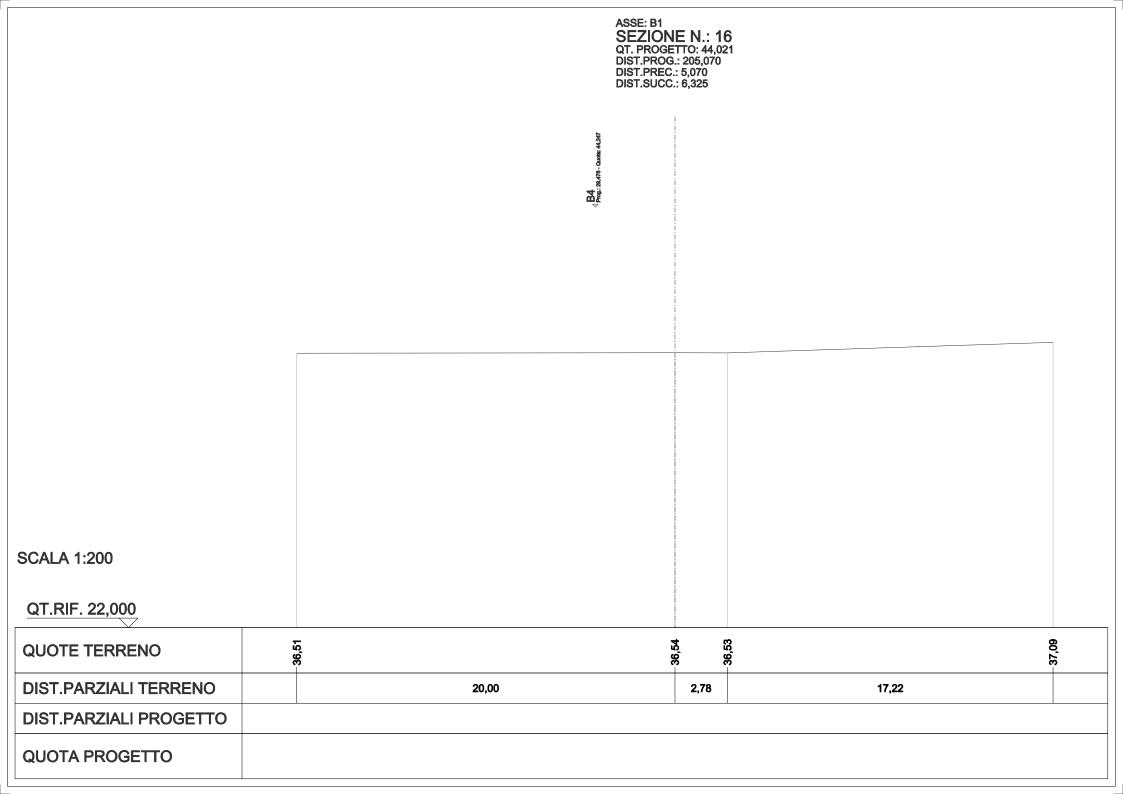


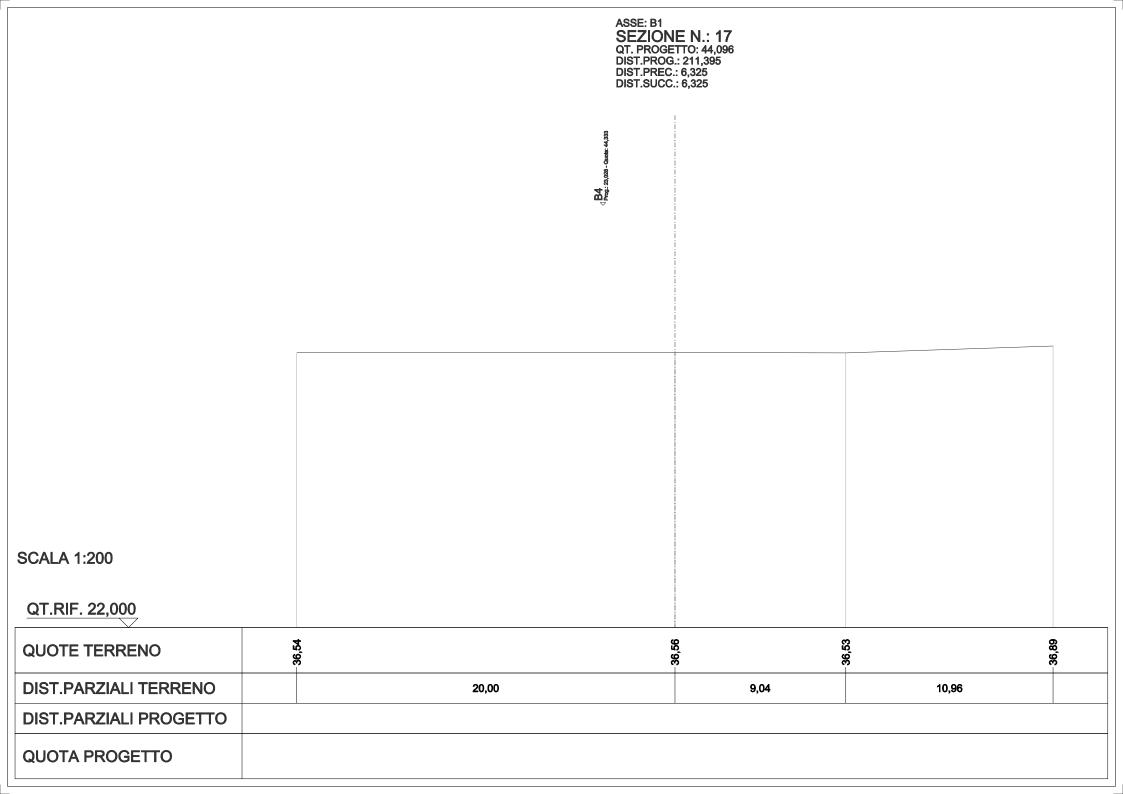


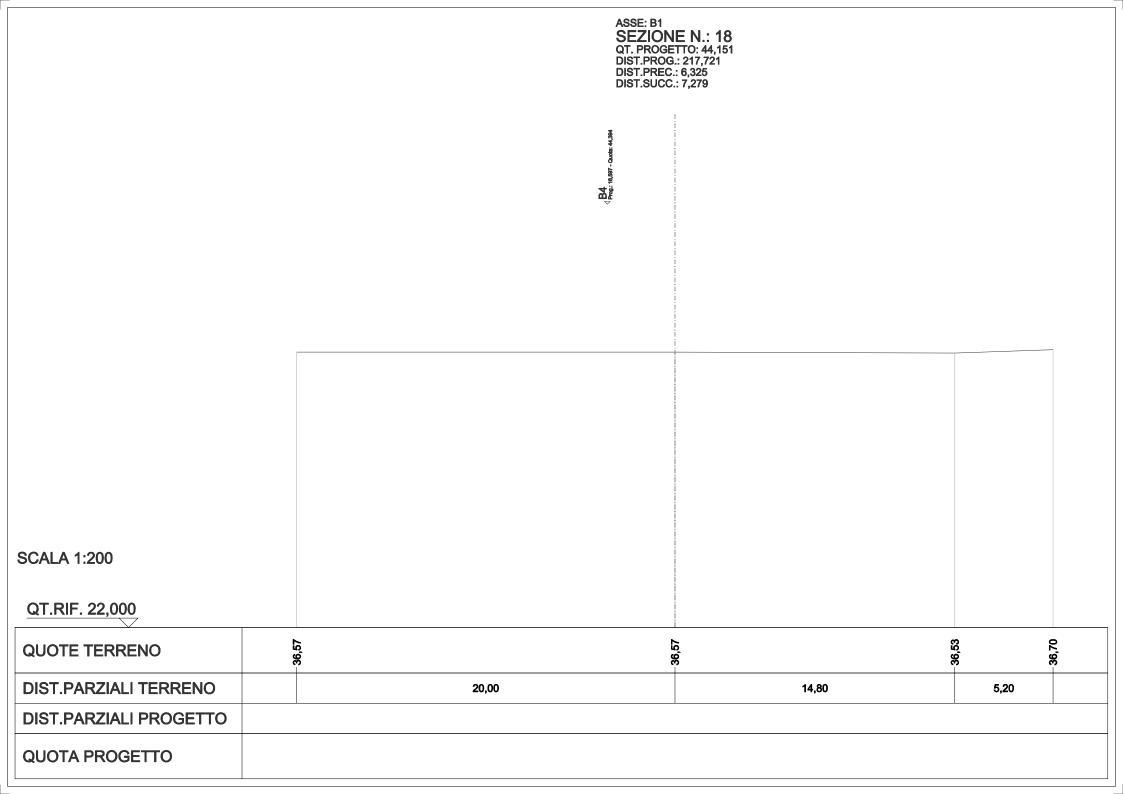


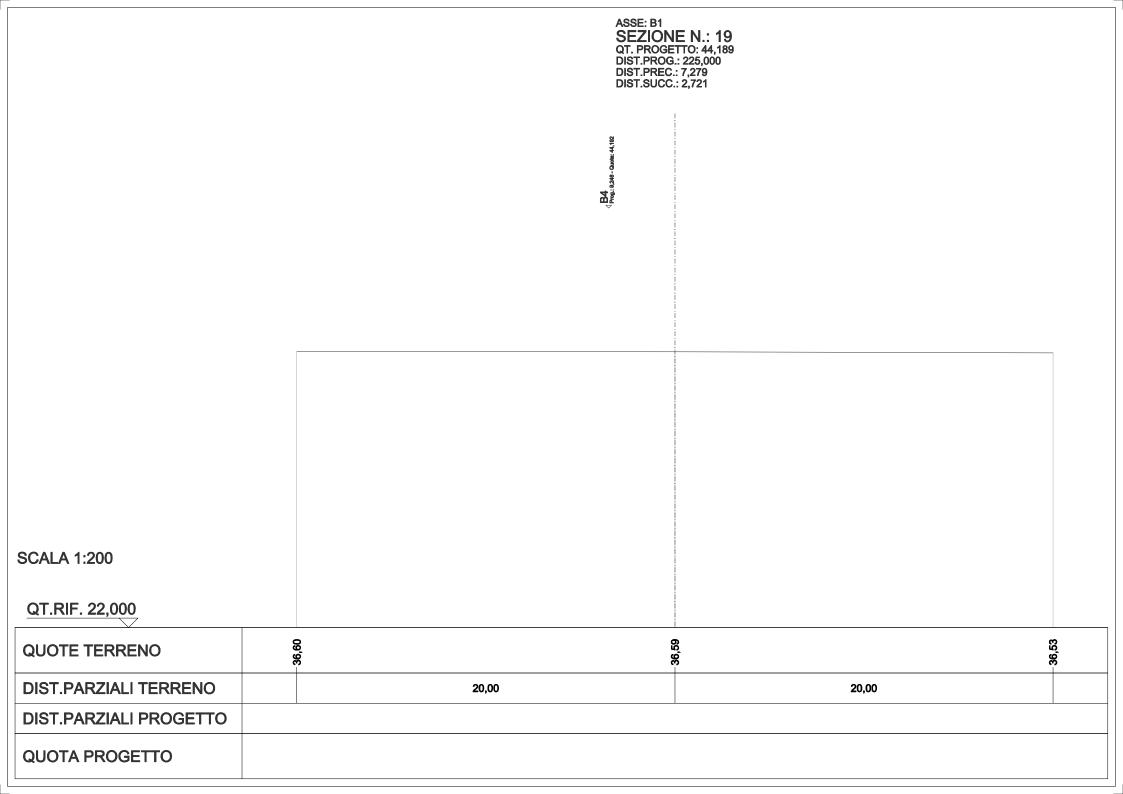


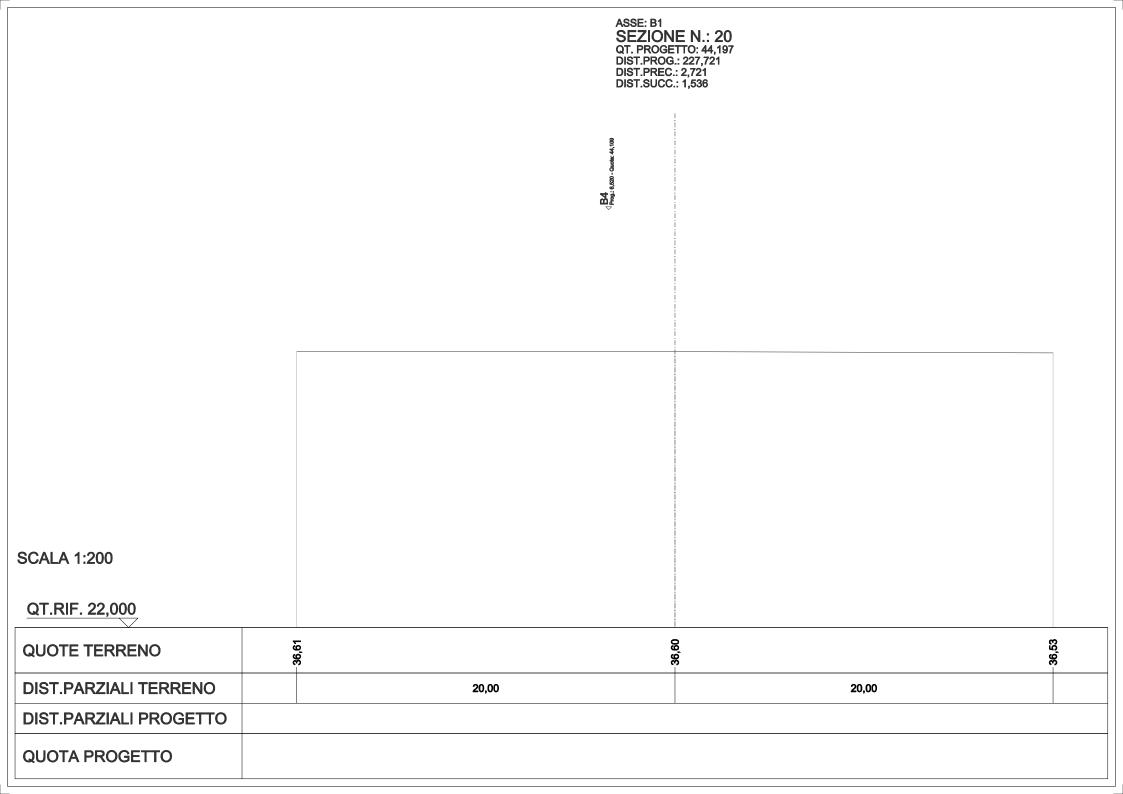


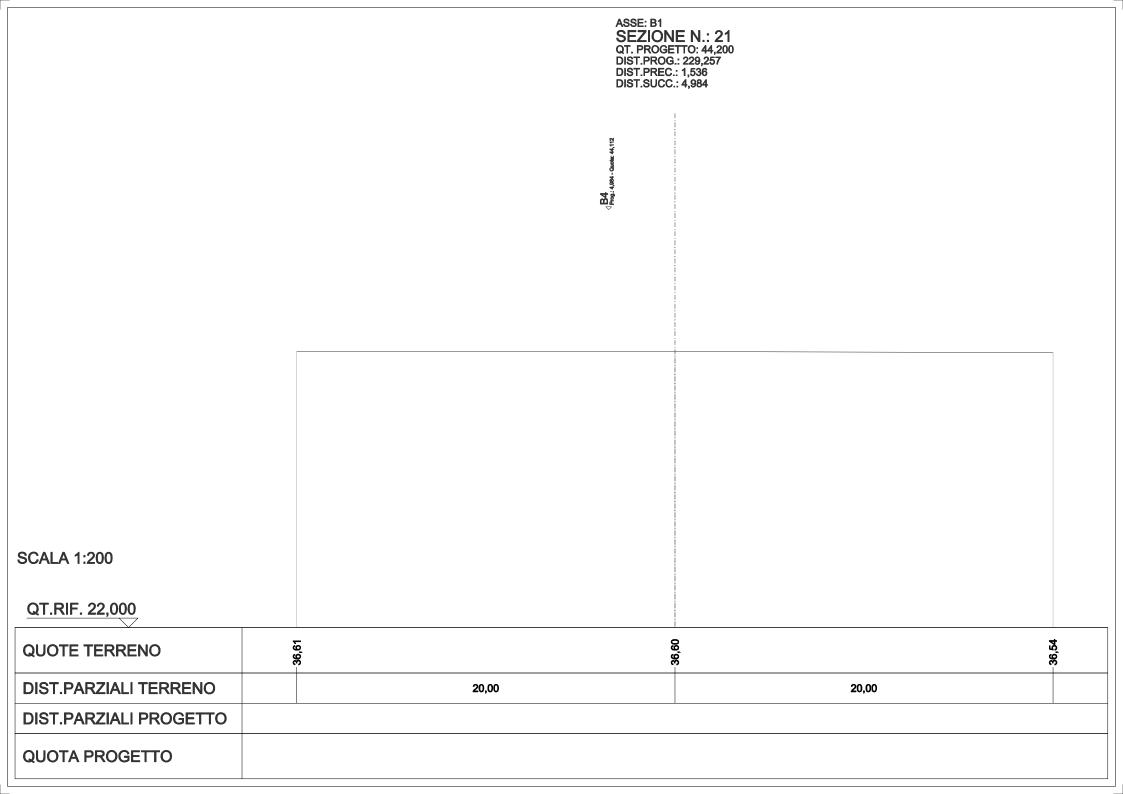


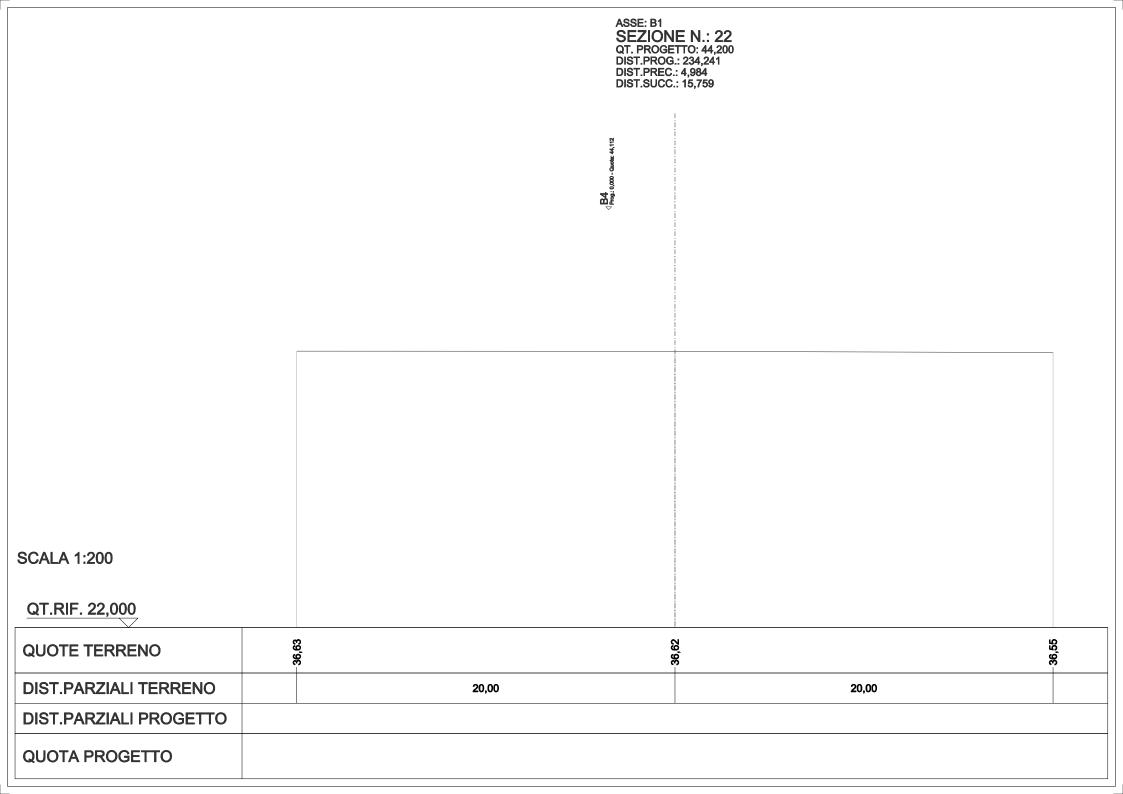


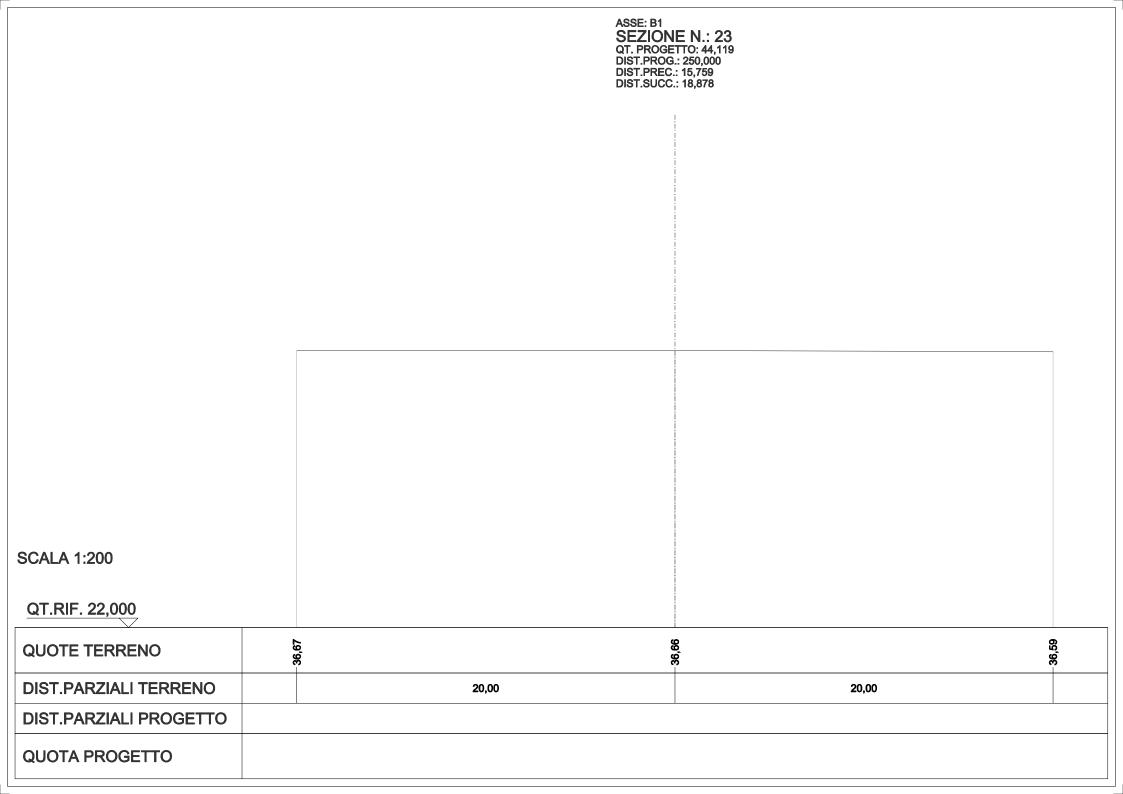


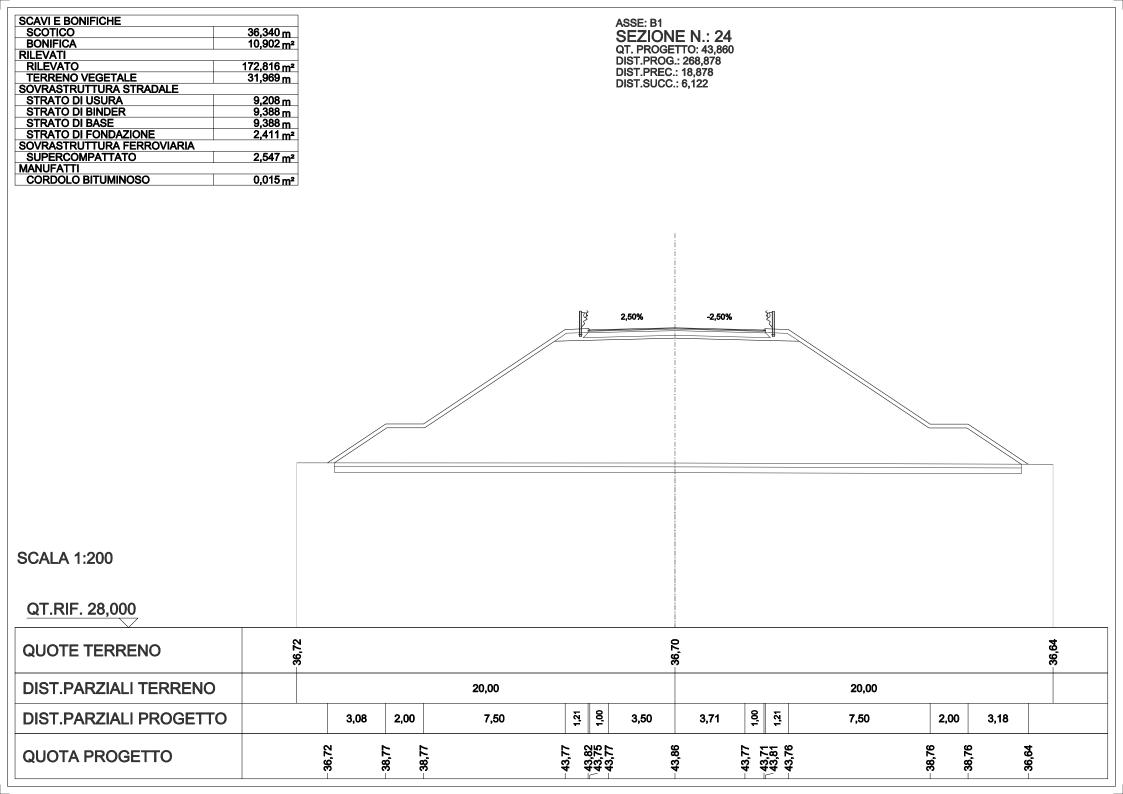


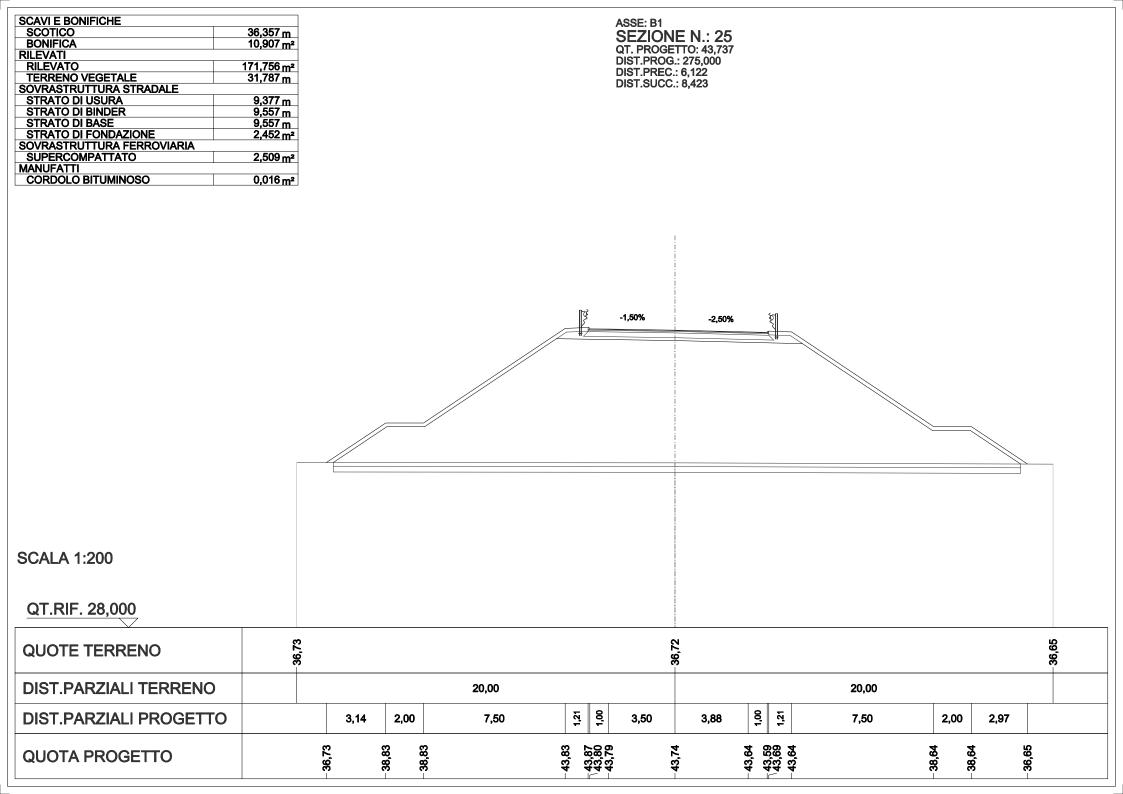


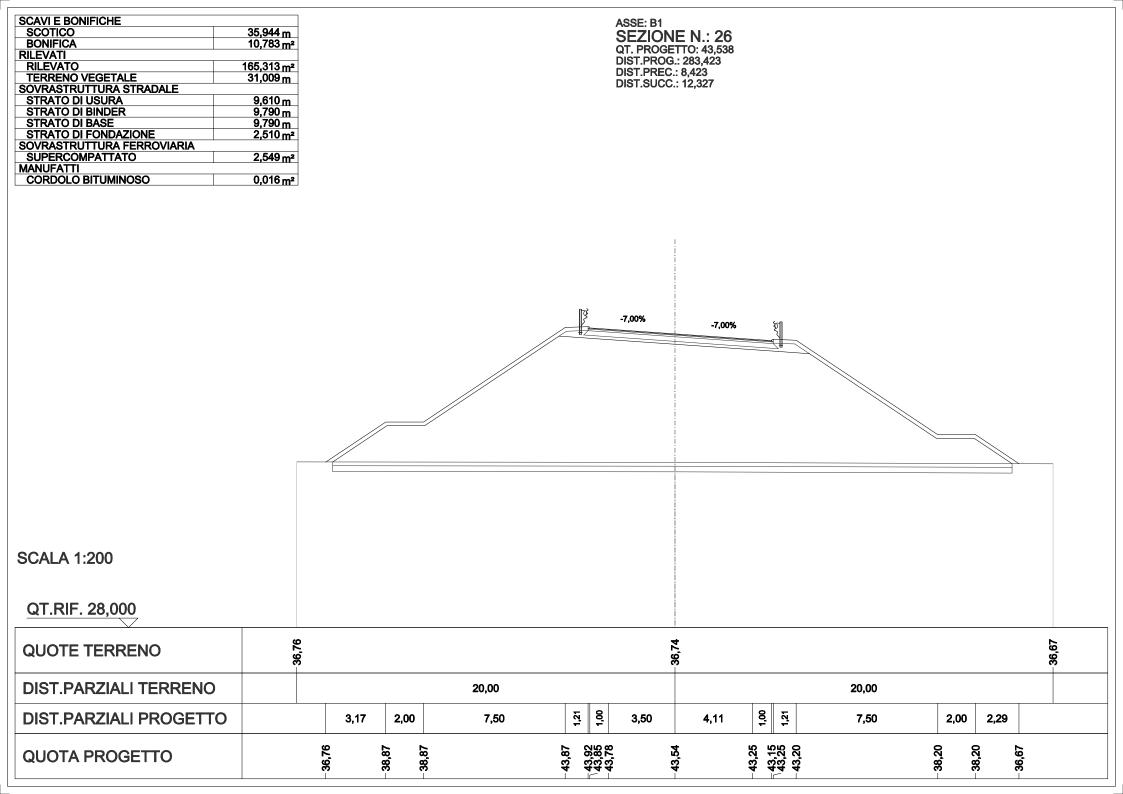


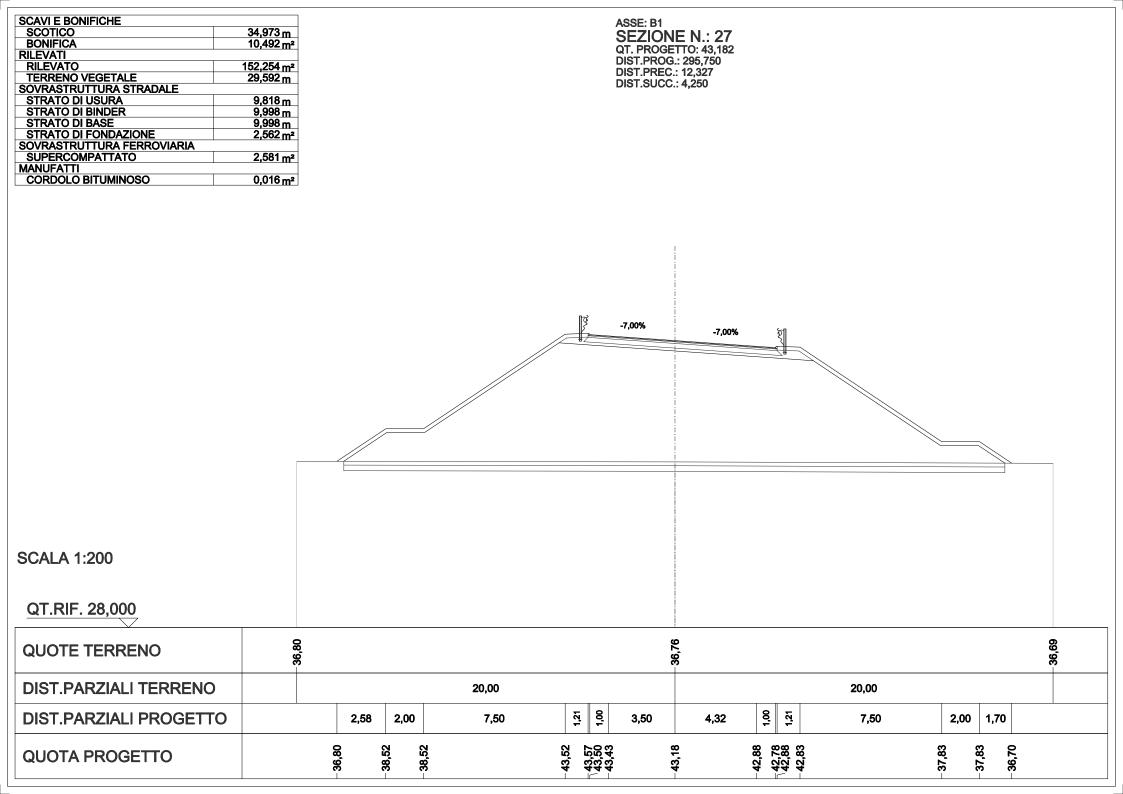


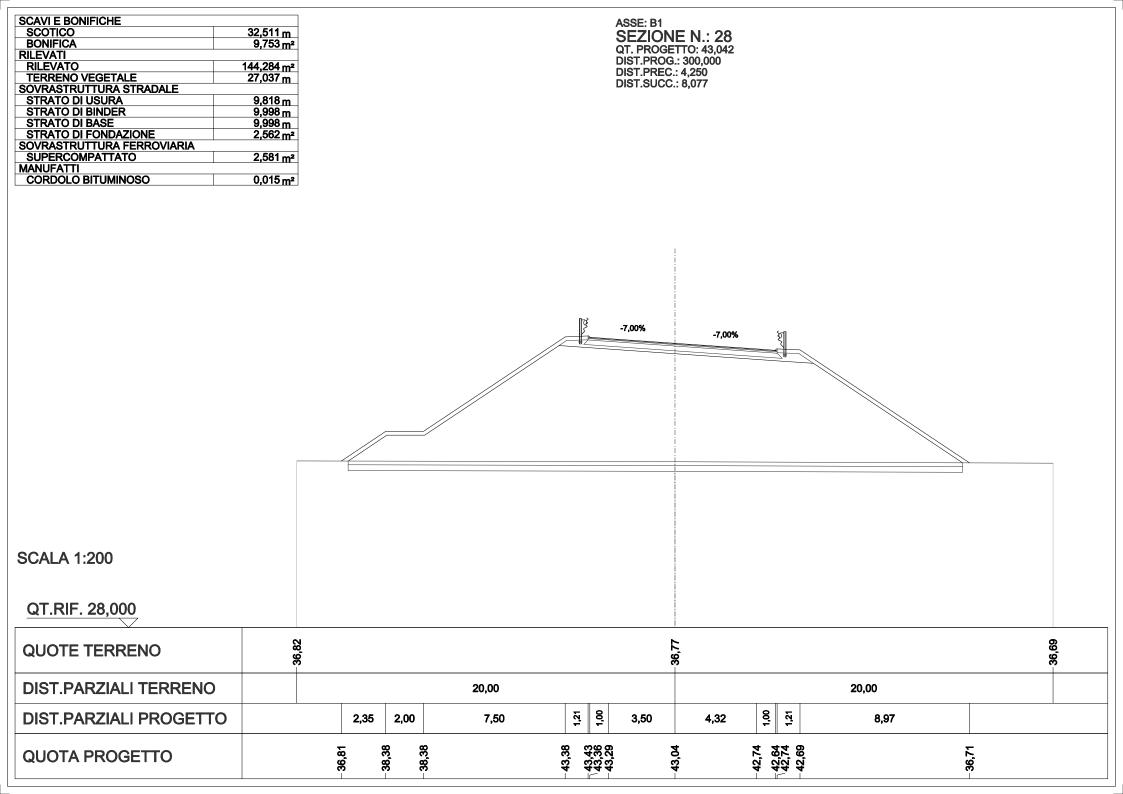


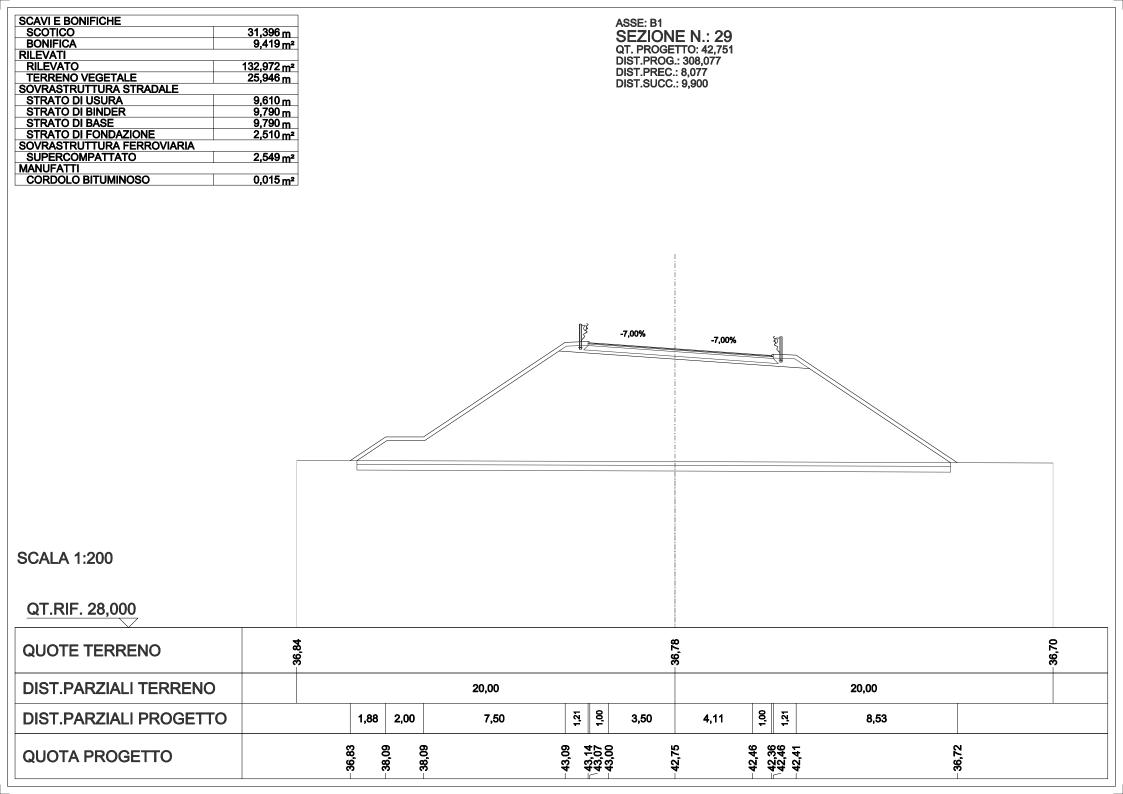


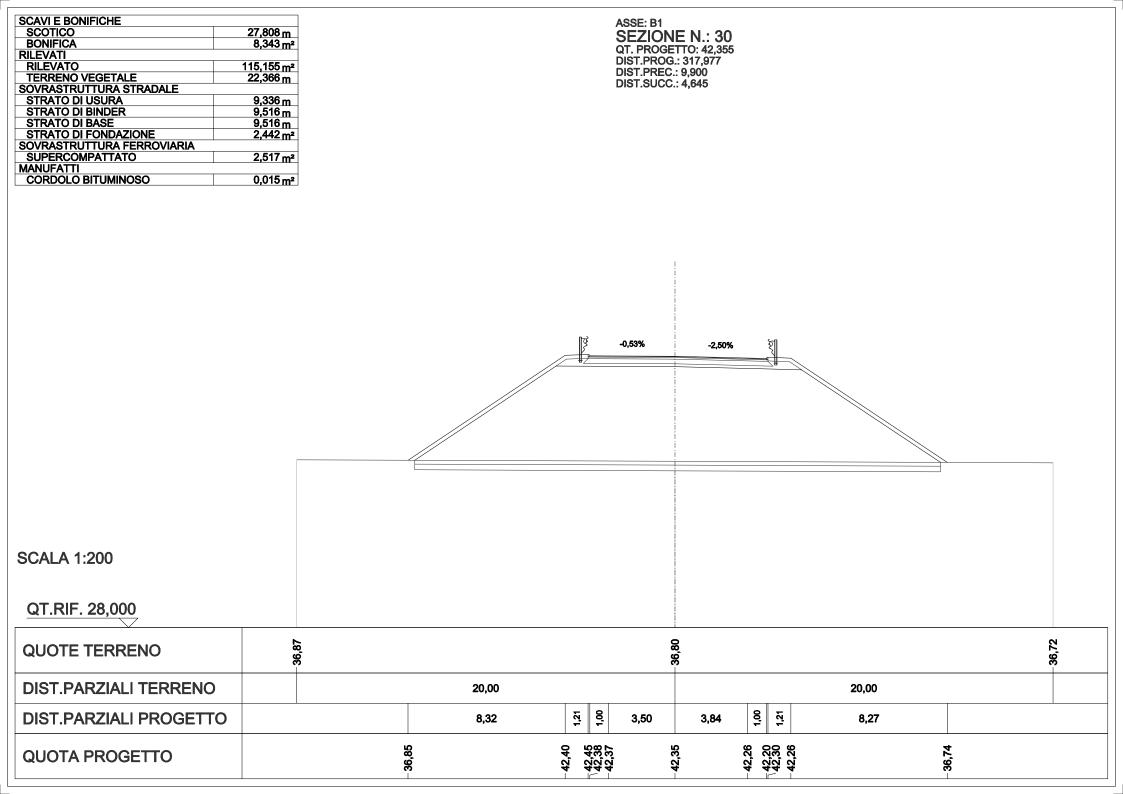


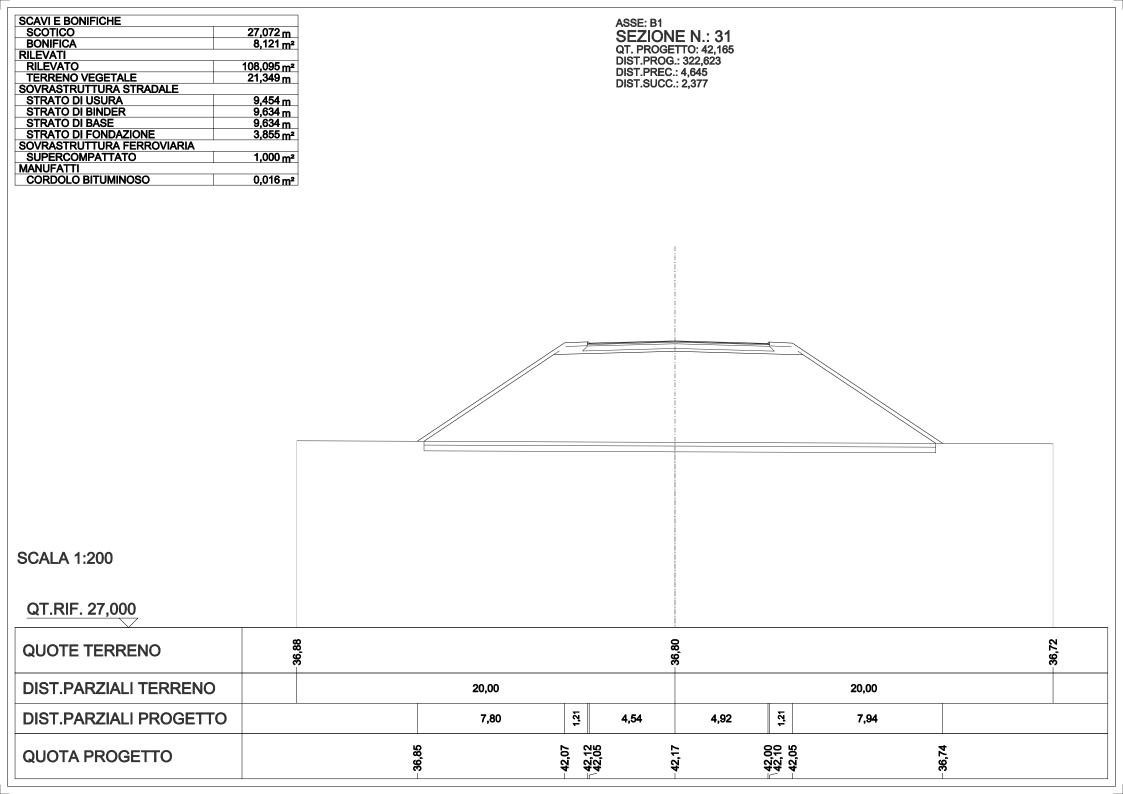


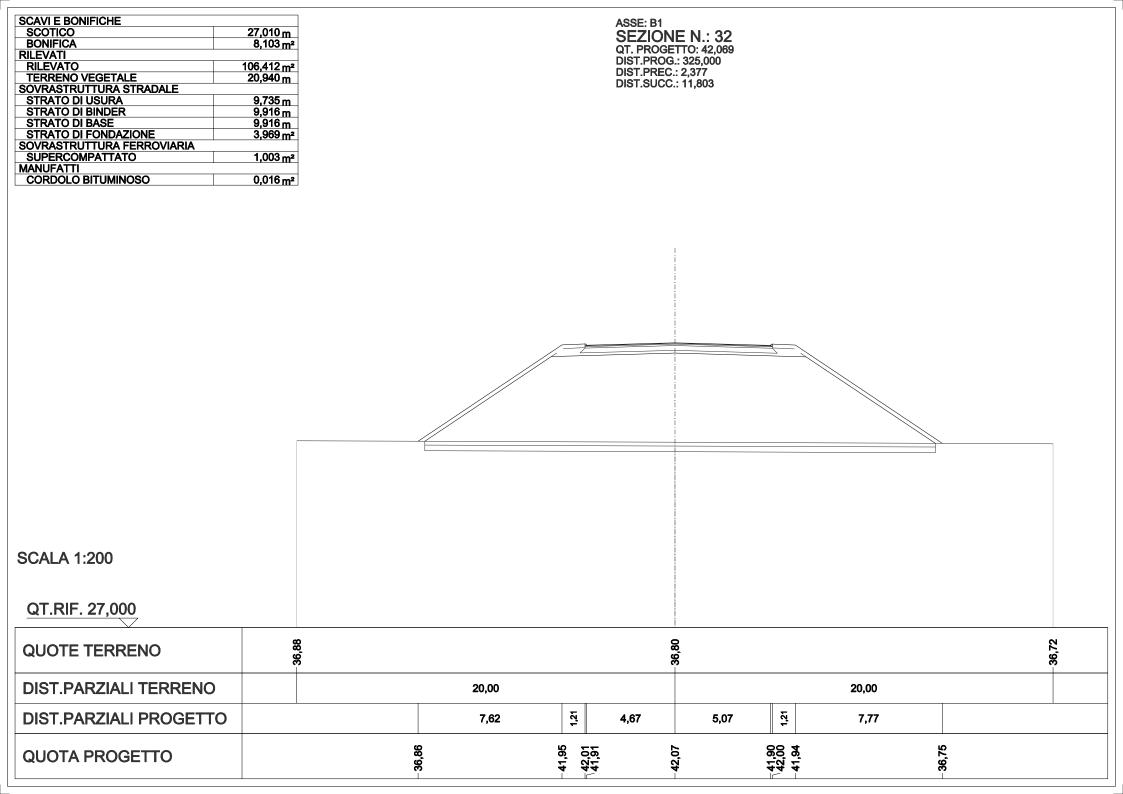


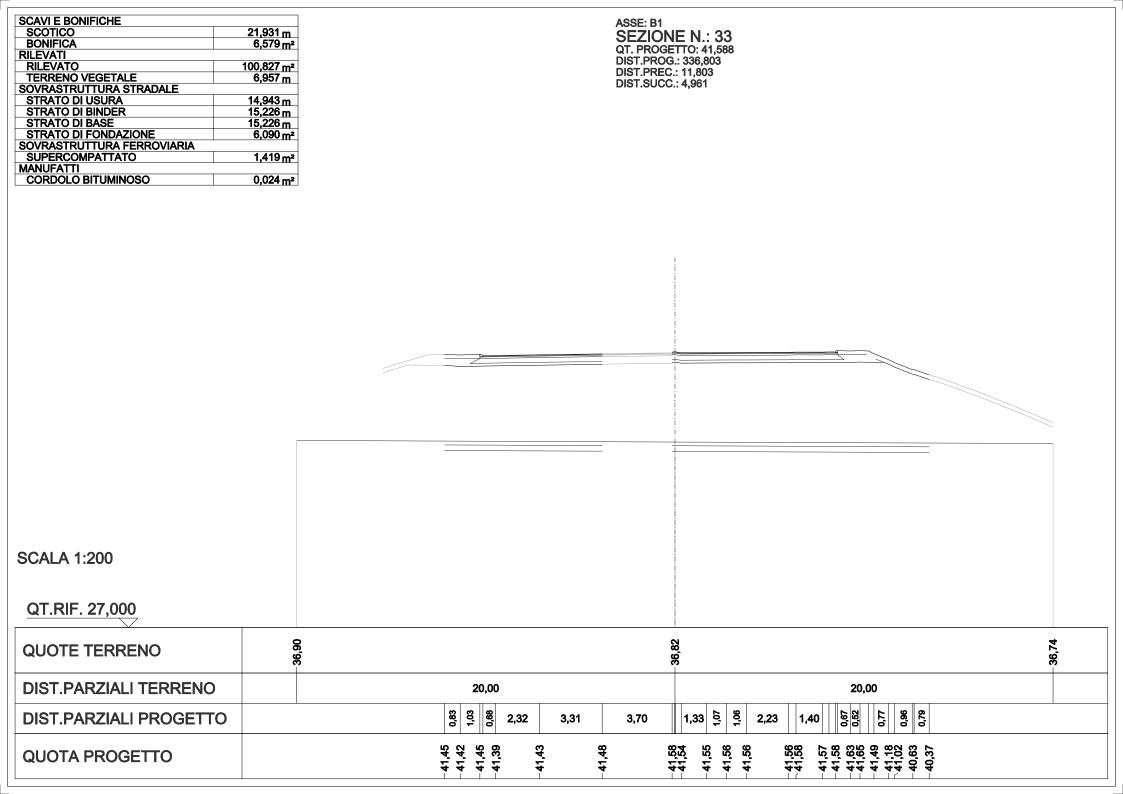


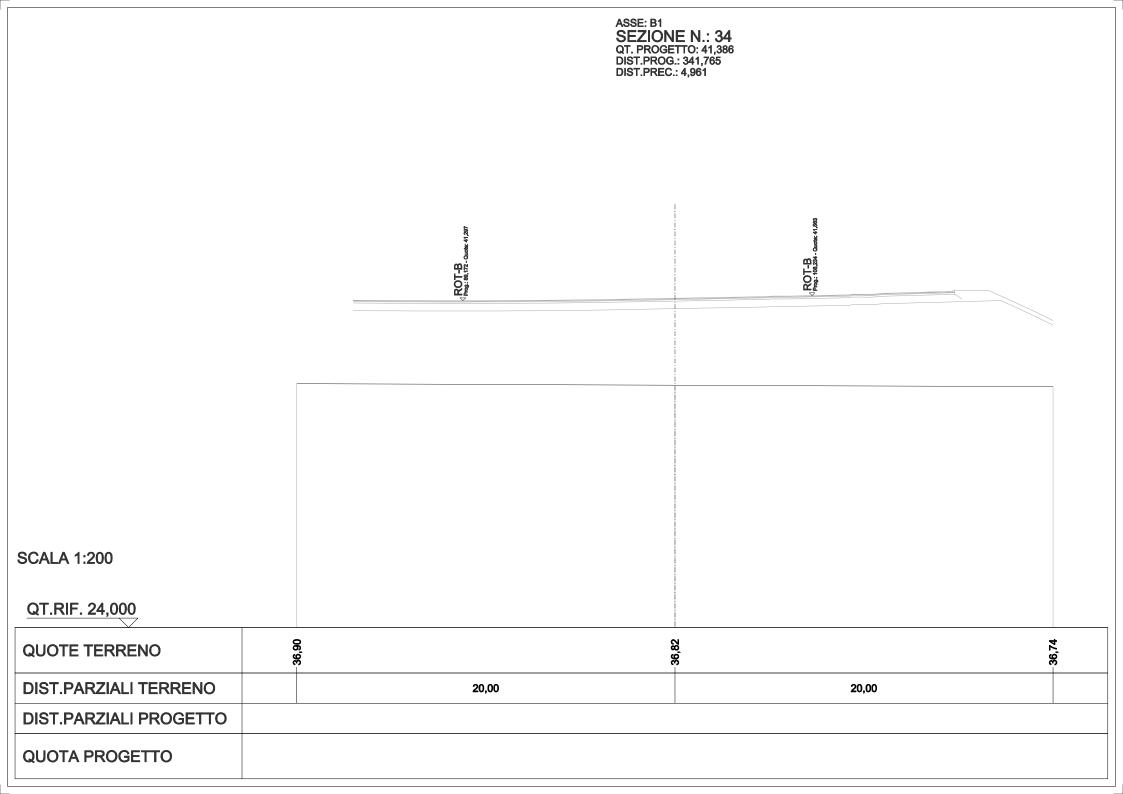


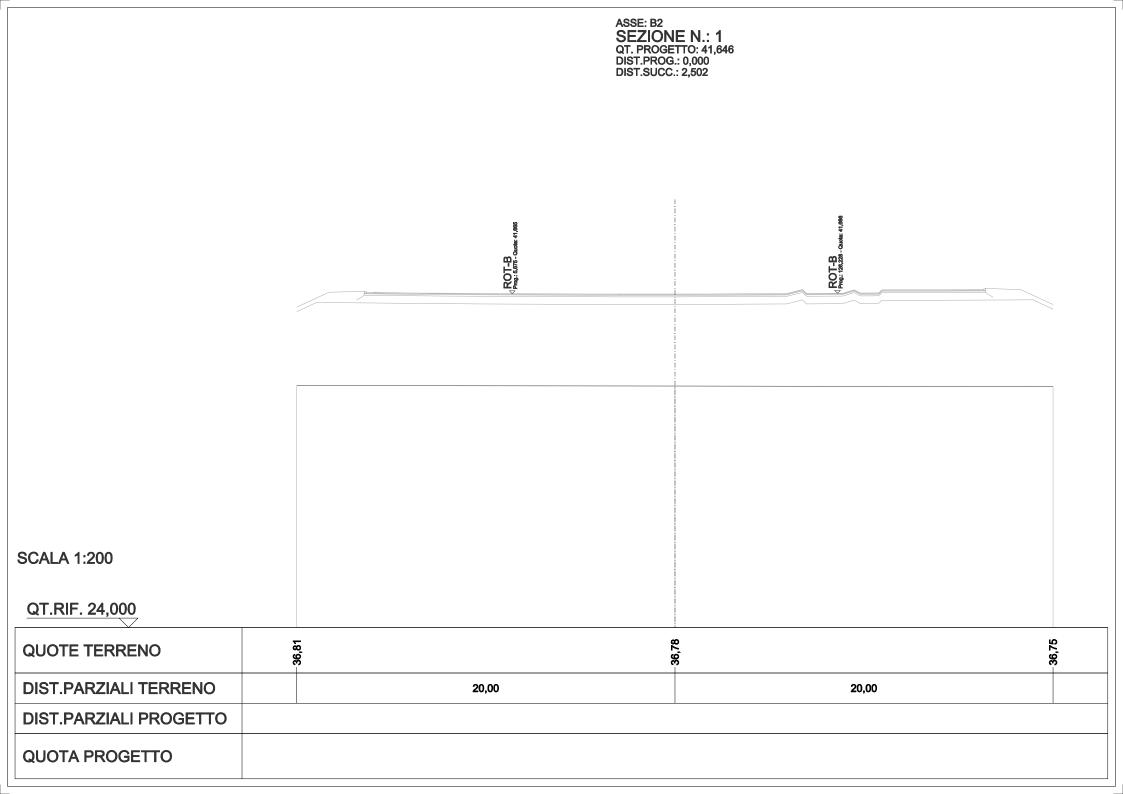


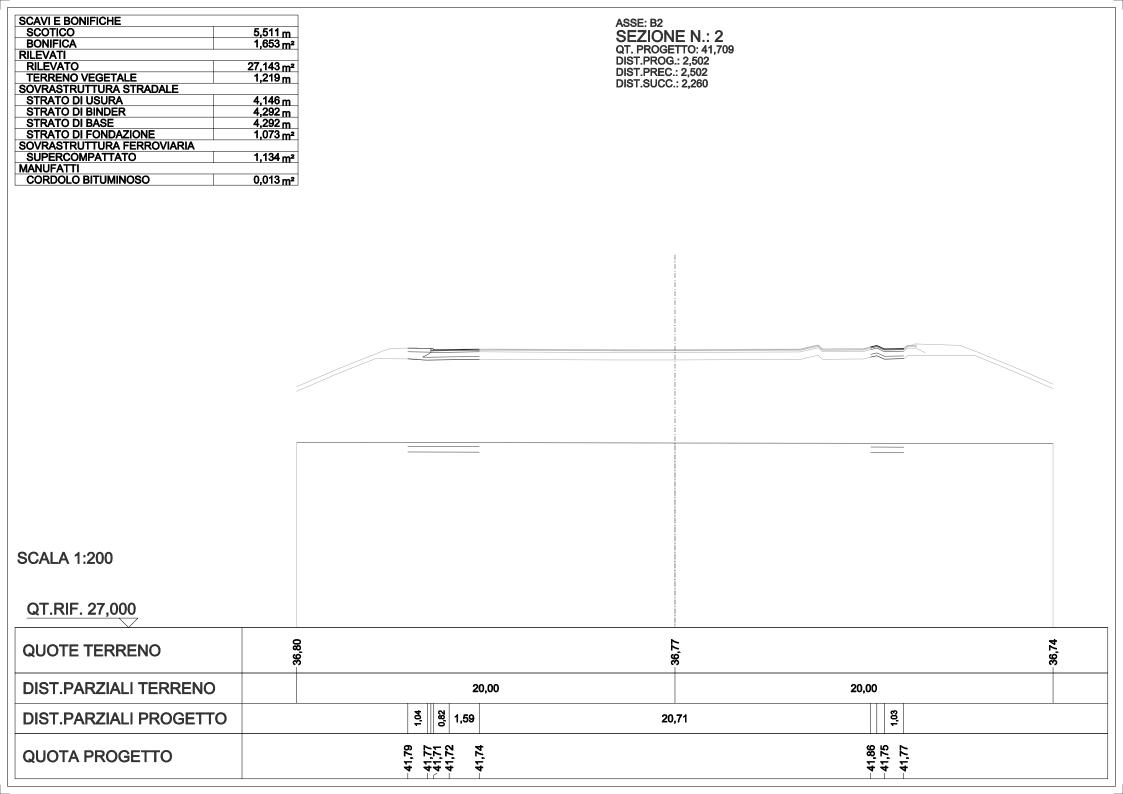


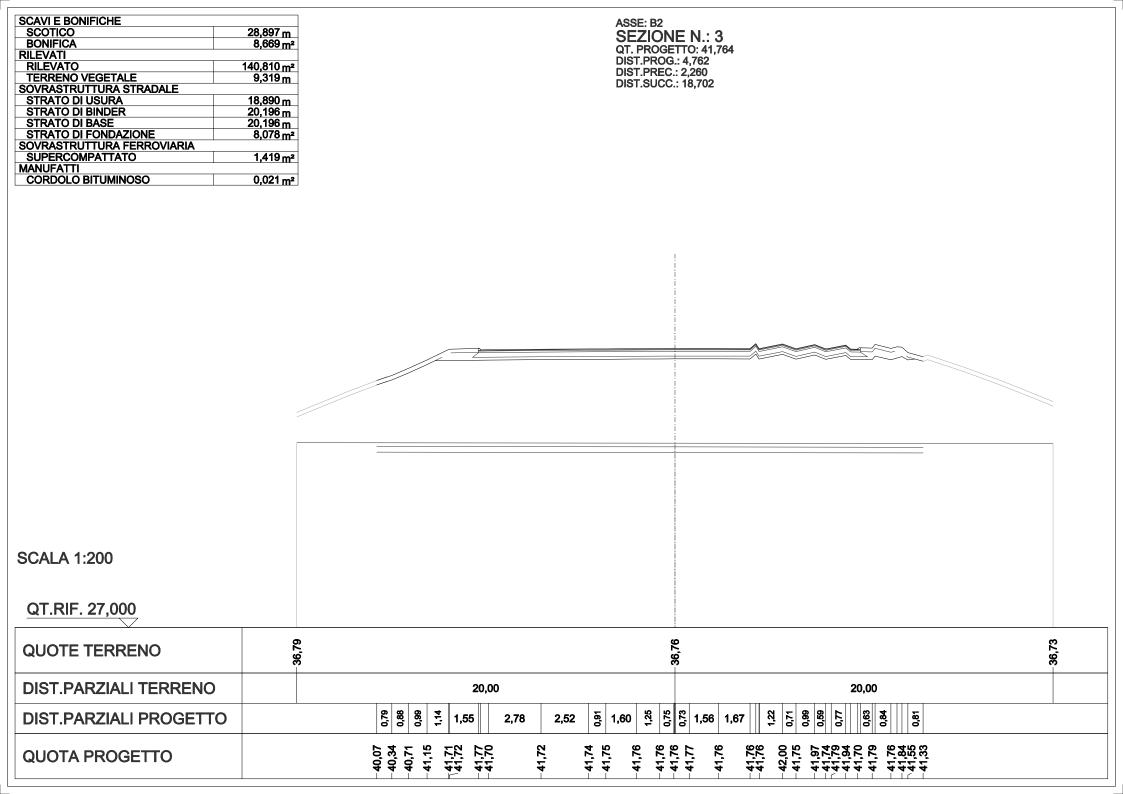


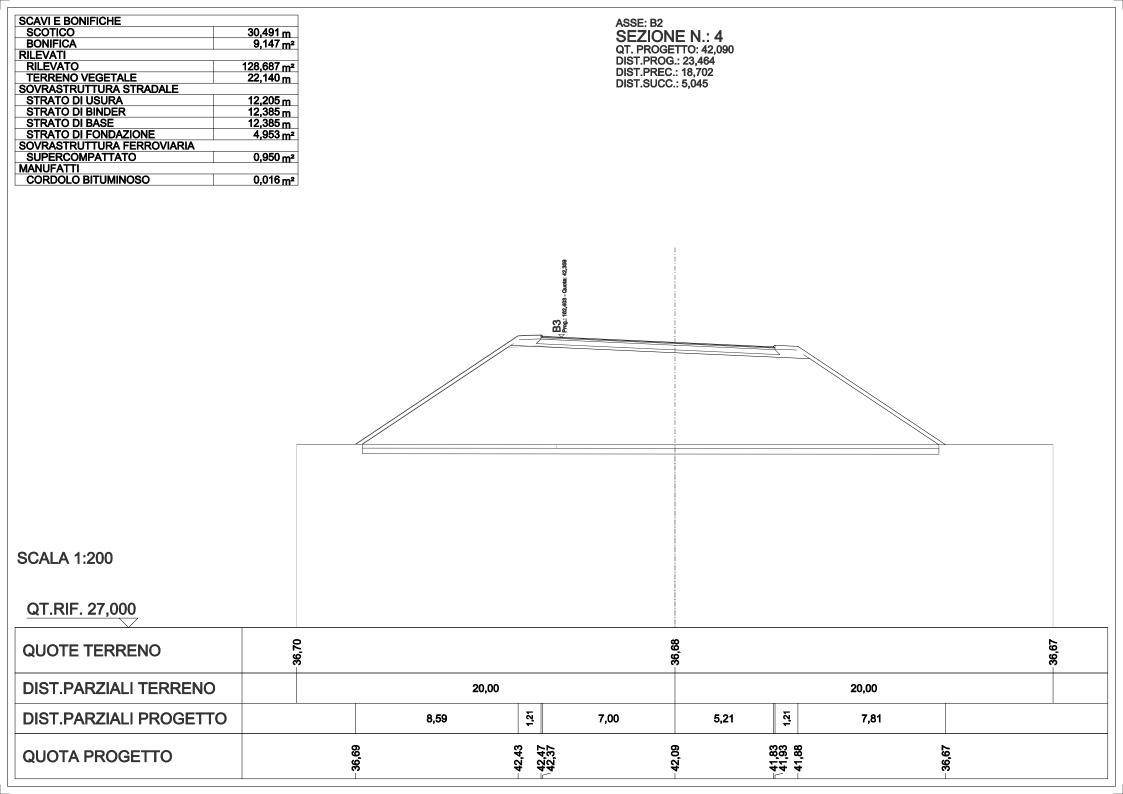


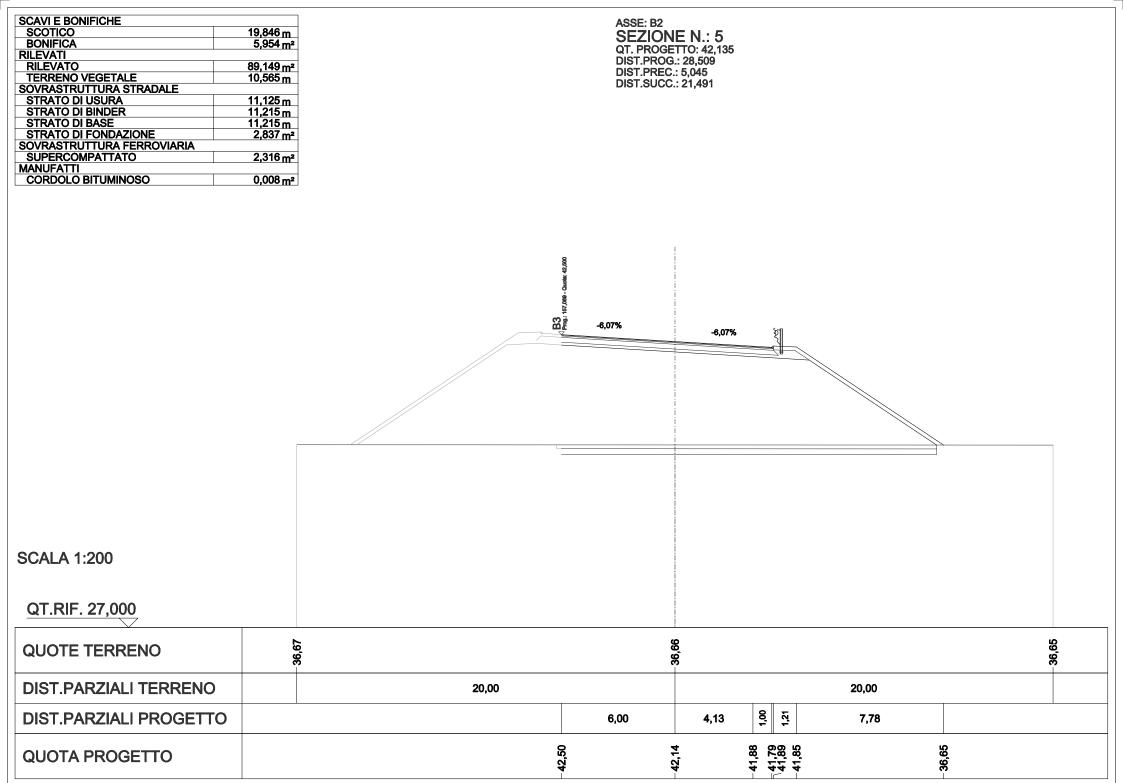


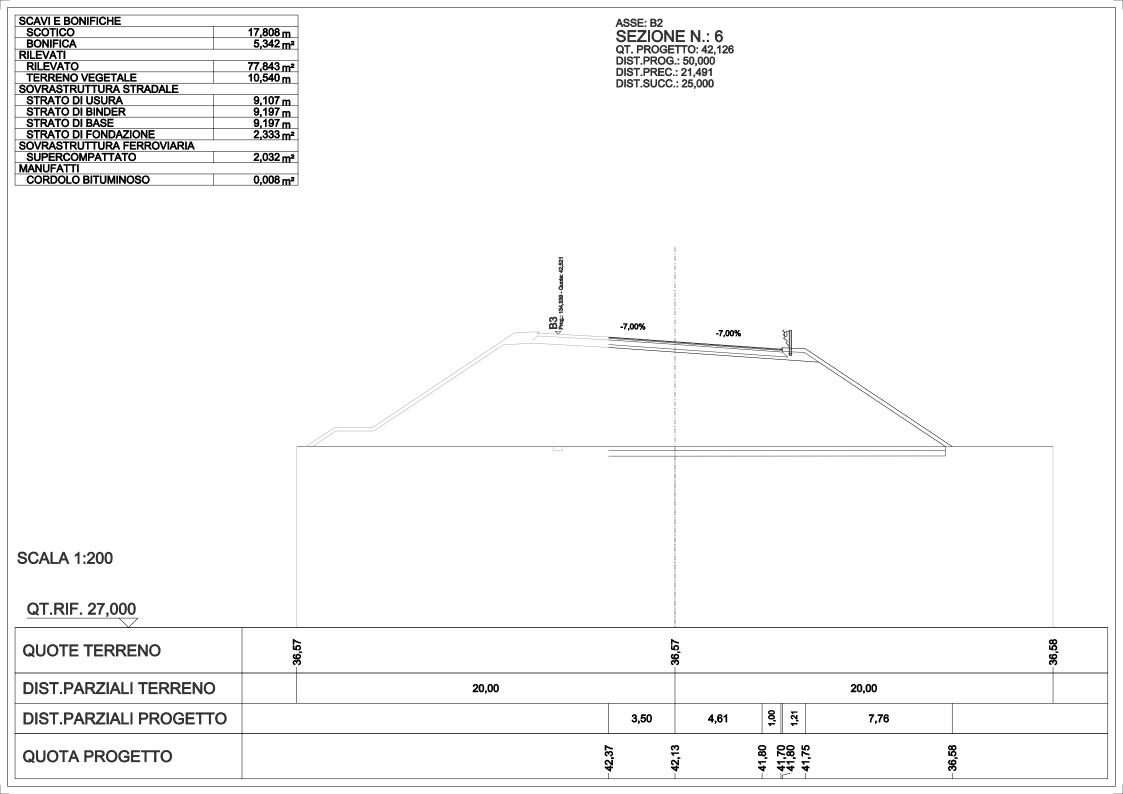


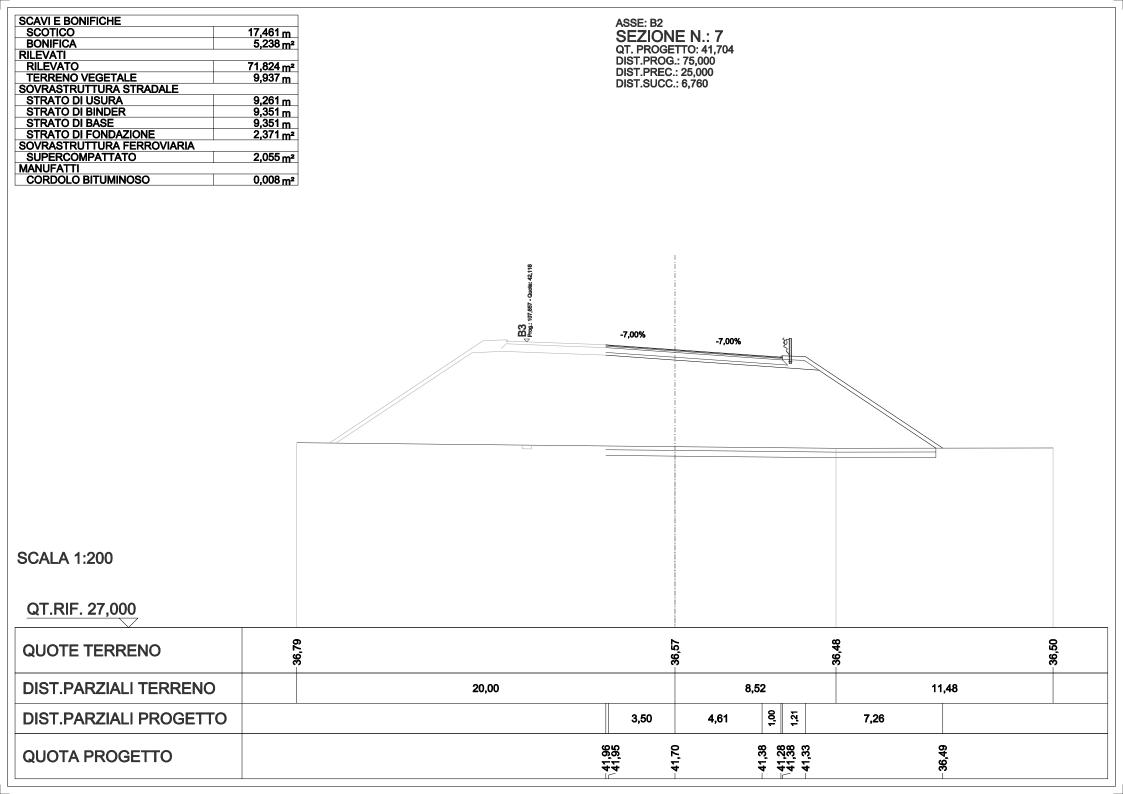


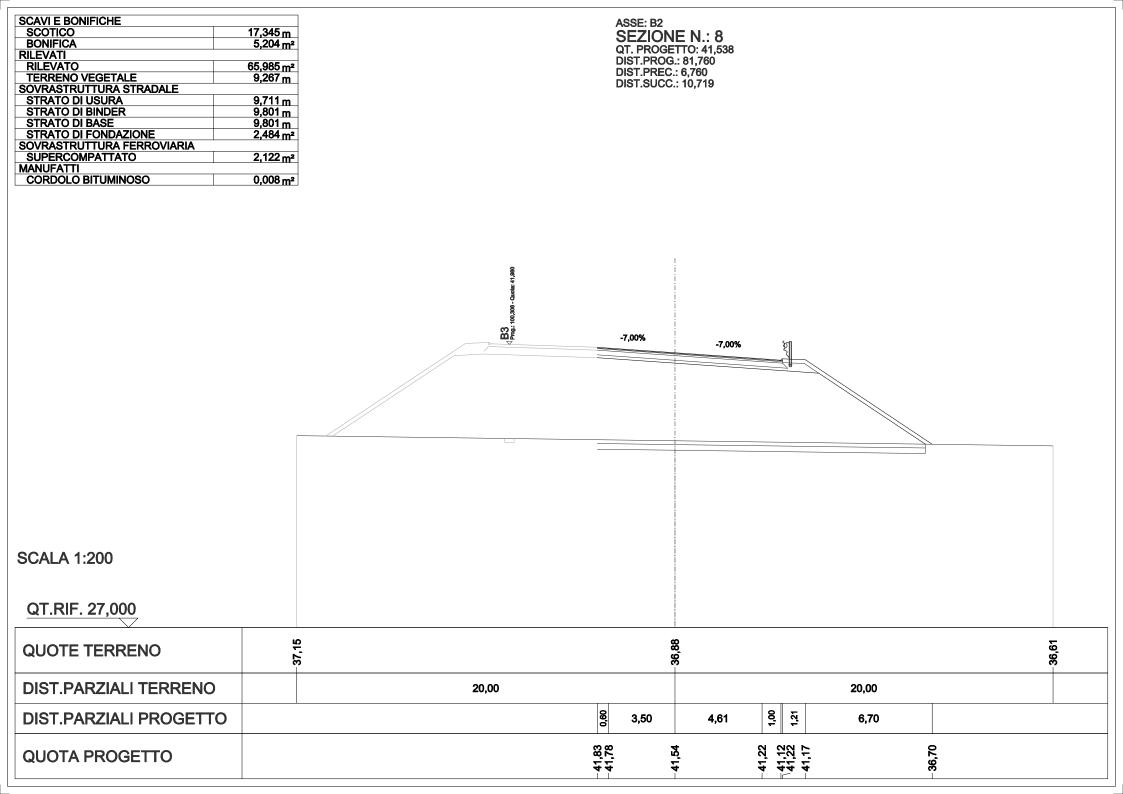


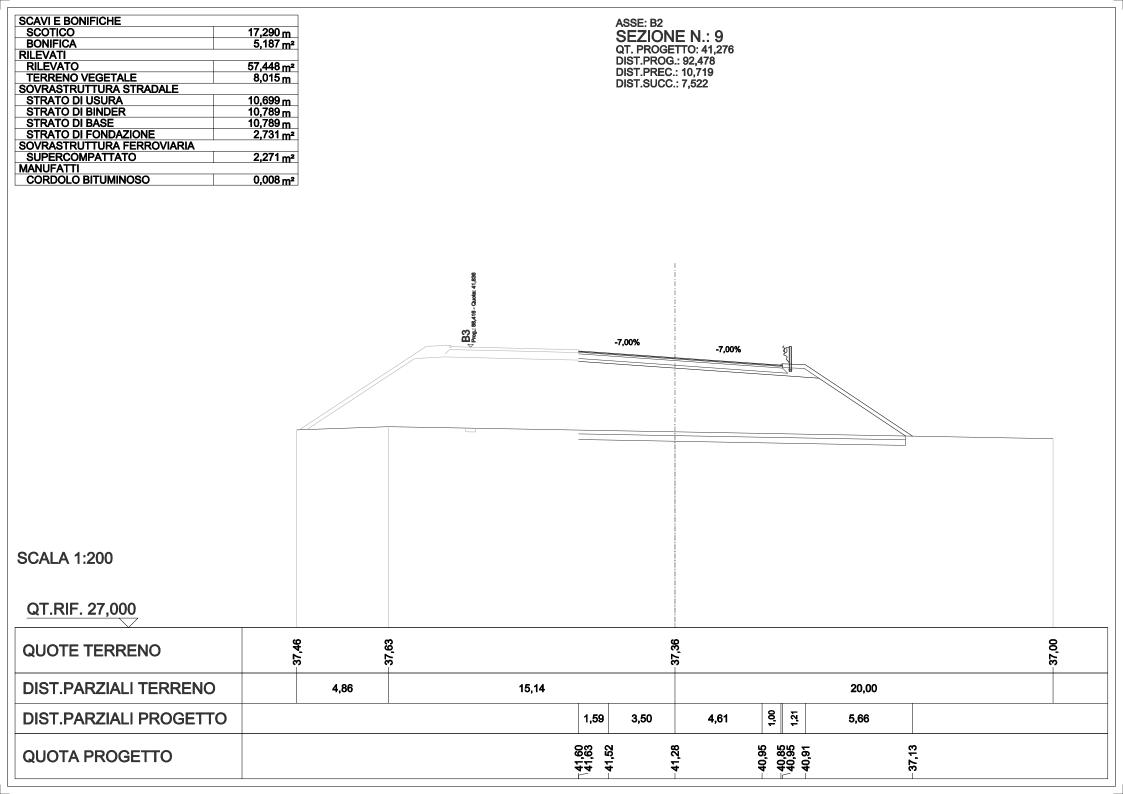


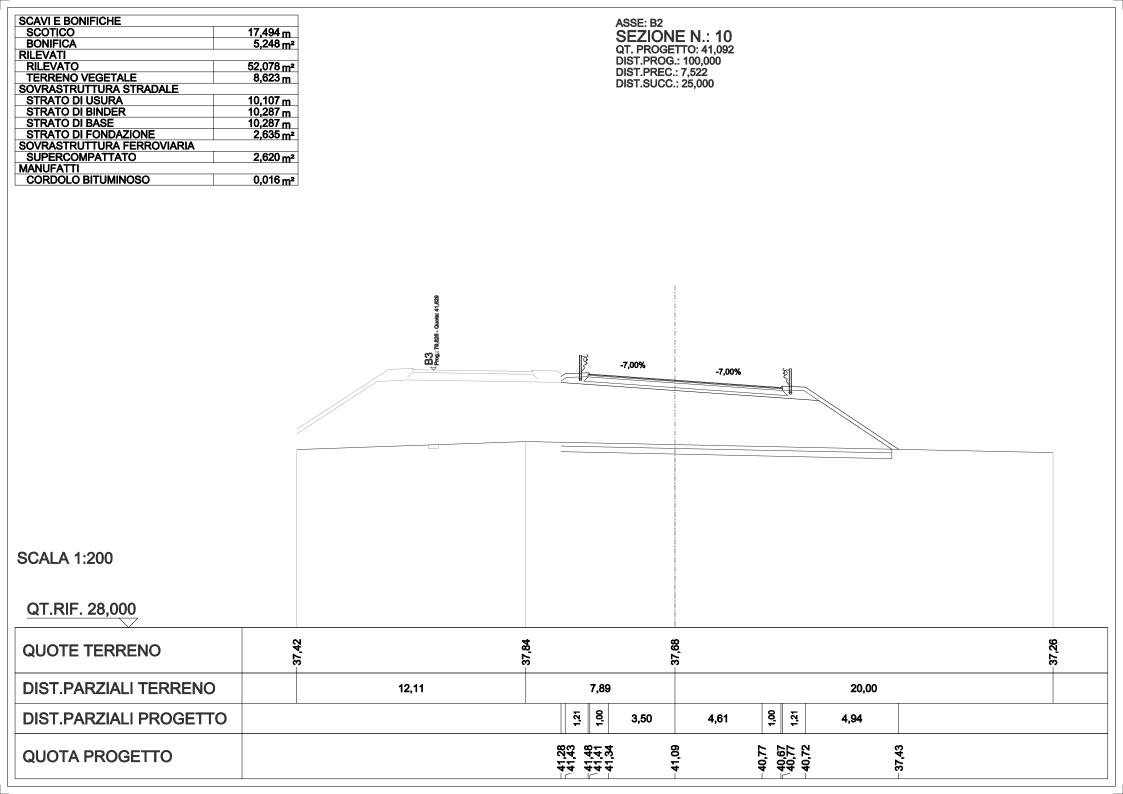














SCALA 1:200

QT.RIF. 27,000

QUOTE TERRENO

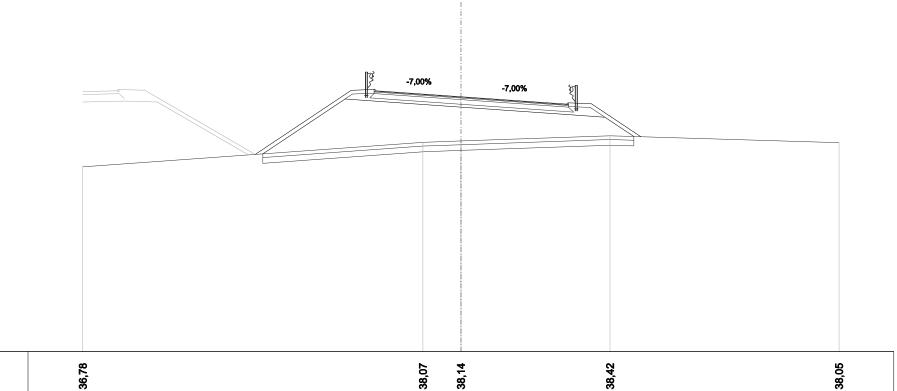
QUOTA PROGETTO

DIST.PARZIALI TERRENO

DIST.PARZIALI PROGETTO

ASSE: B2

SEZIONE N.: 11 QT. PROGETTO: 40,483 DIST.PROG.: 125,000 DIST.PREC.: 25,000 DIST.SUCC.: 8,464



2,01

40,48

3,50

1,00 1,2

7,89

4,61

6 1,21

40,16 40,06 40,16 40,11

2,62

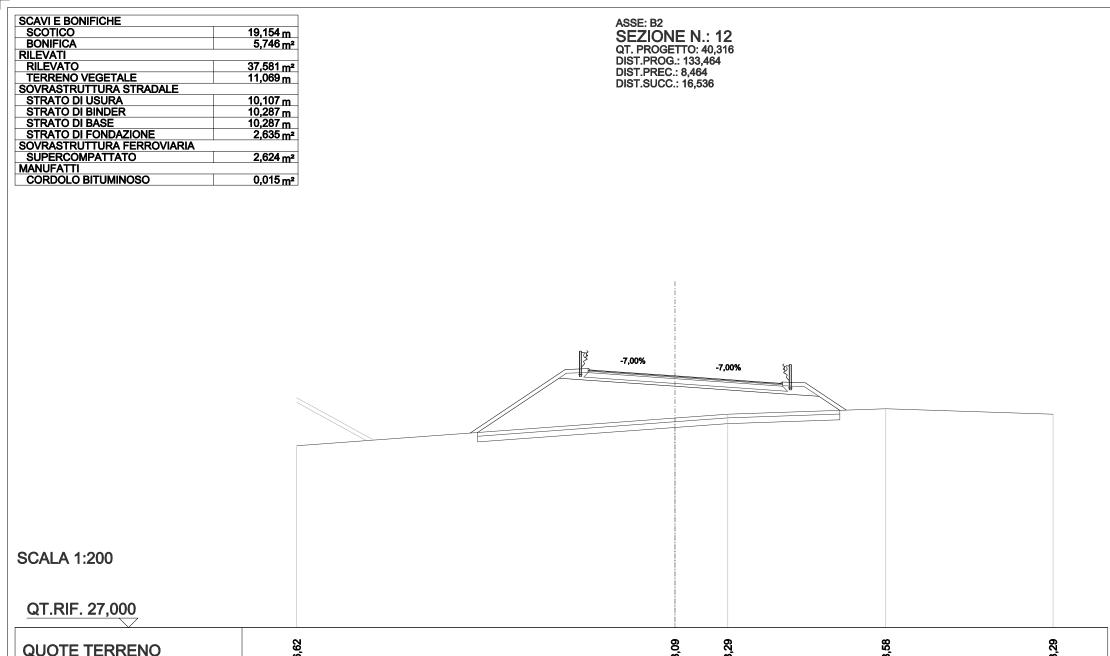
38,37

12,11

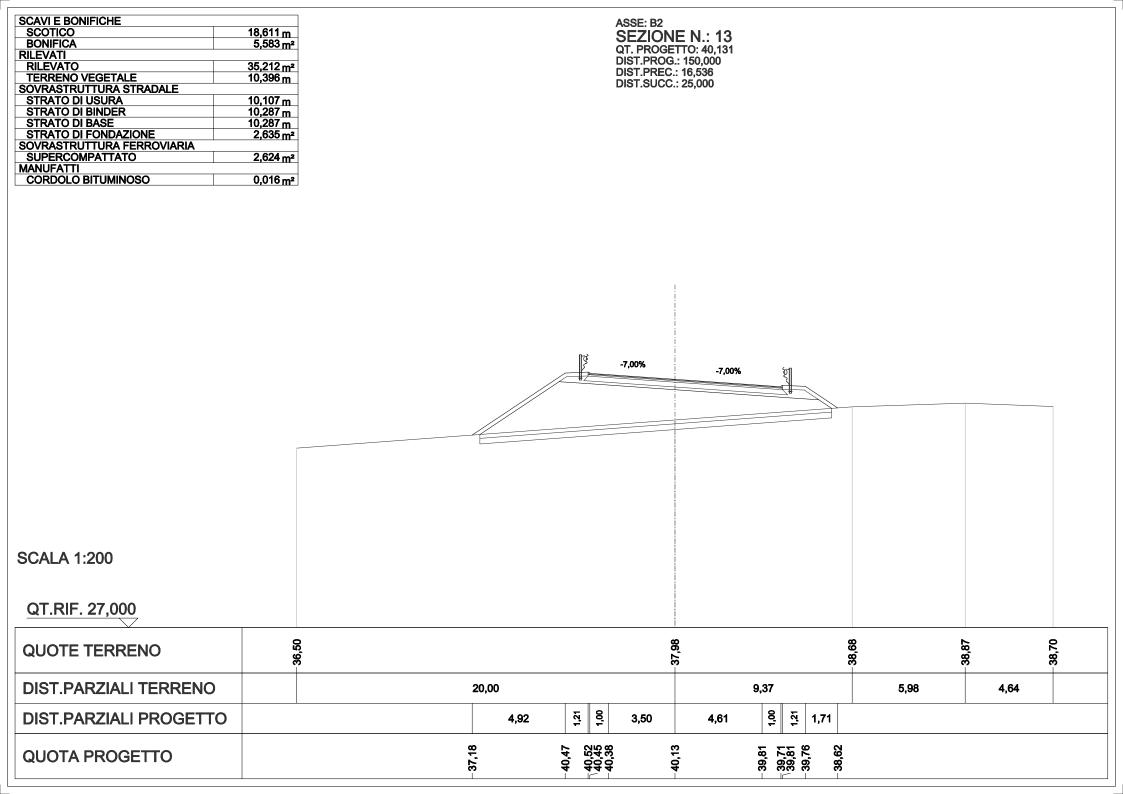
17,99

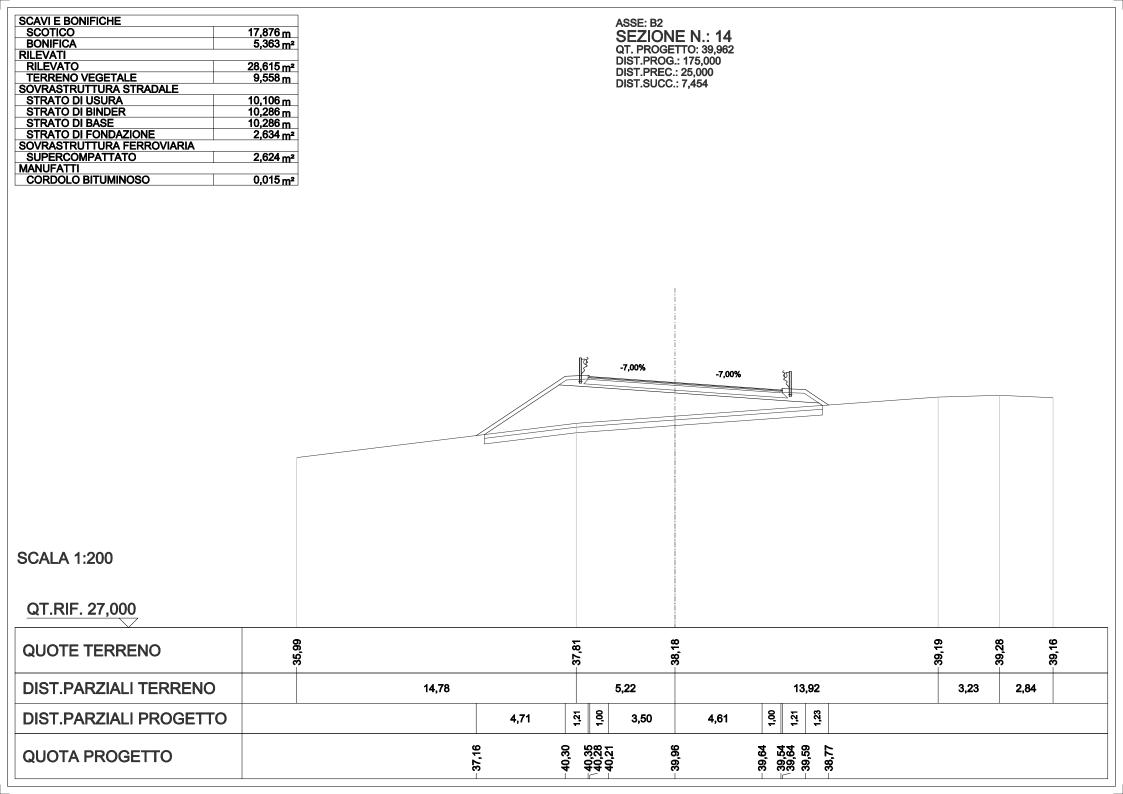
37,43

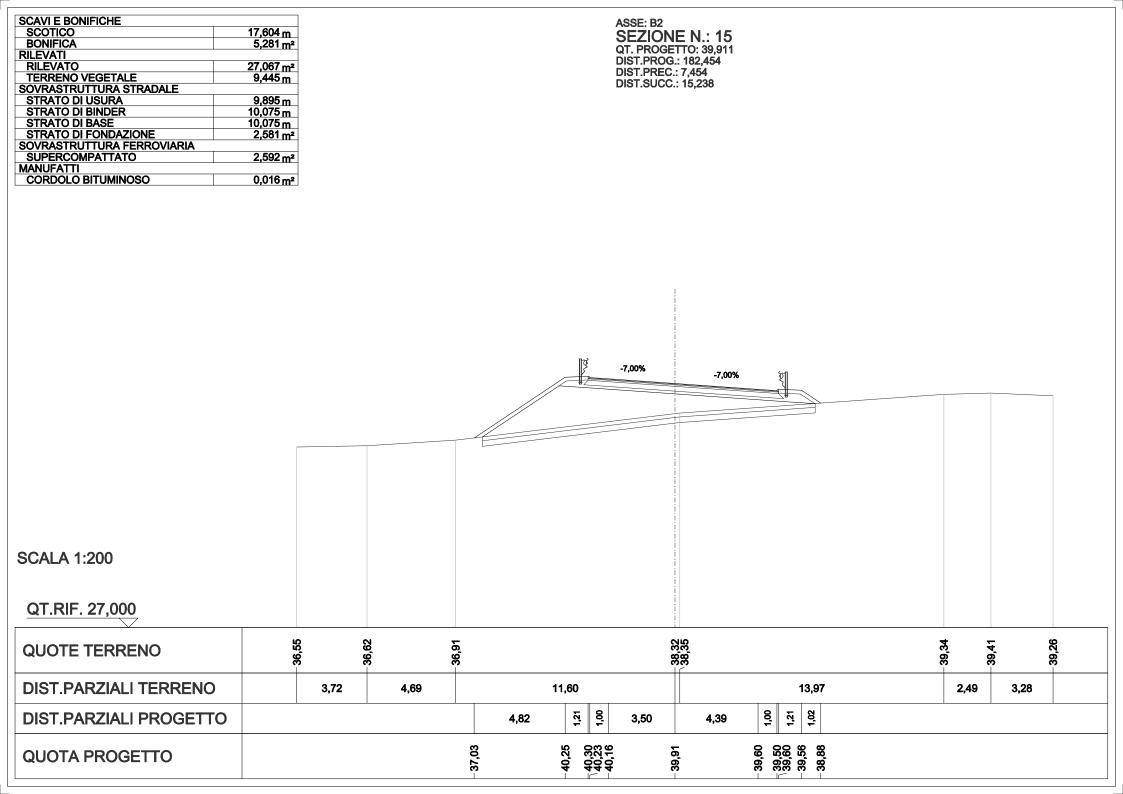
5,08



QUOTE TERRENO	-36,62			-38,09 -38,29		86 88 -	- 38,29
DIST.PARZIALI TERRENO		20,00		2,80	8,36	8,84	
DIST.PARZIALI PROGETTO		5,04	2, 0, 3,50	4,61	8 2,16		
QUOTA PROGETTO		-37,29	- 40,65 - 40,63 - 40,56	40,32 	- 39,99 - 39,89 - 39,95 - 38,51		







SCOTICO	13,887 m
BONIFICA	4,166 m ²
RILEVATI	
RILEVATO	11,580 m ²
TERRENO VEGETALE	5,282 m
SOVRASTRUTTURA STRADALE	
STRATO DI USURA	9,578 m
STRATO DI BINDER	9,758 m
STRATO DI BASE	9,758 m
STRATO DI FONDAZIONE	2,504 m ²
SOVRASTRUTTURA FERROVIARIA	
SUPERCOMPATTATO	2,603 m ²
MANUFATTI	
CORDOLO BITUMINOSO	0,016 m ²

SCALA 1:200

QT.RIF. 27,000

QUOTE TERRENO

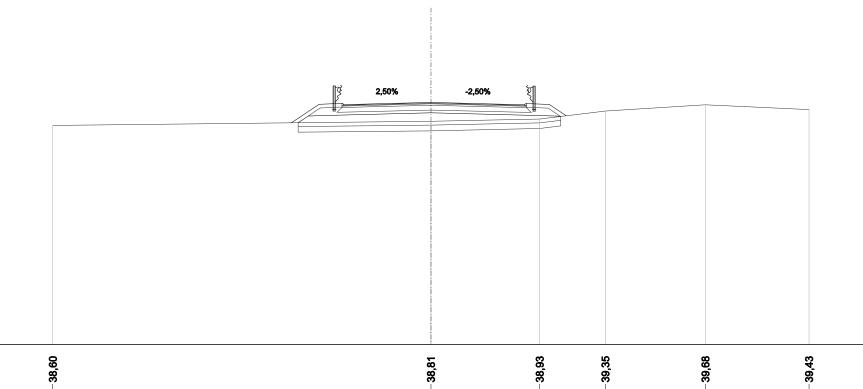
QUOTA PROGETTO

DIST.PARZIALI TERRENO

DIST.PARZIALI PROGETTO

ASSE: B2

SEZIONE N.: 16 QT. PROGETTO: 39,808 DIST.PROG.: 197,692 DIST.PREC.: 15,238 DIST.SUCC.: 3,139



5,76

3,96

1,00

1,21

39,71 39,65 39,75 39,71 39,10

3,47

5,29

5,48

20,00

1,48 💆

3,62

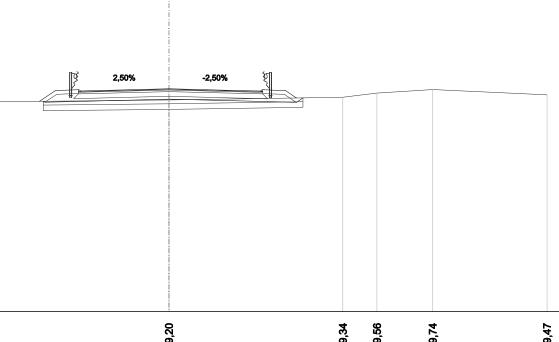
39,81



ASSE: B2

SEZIONE N.: 17

QT. PROGETTO: 39,787 DIST.PROG.: 200,831 DIST.PREC.: 3,139 DIST.SUCC.: 13,333



SCALA 1:200

QT.RIF. 28,000

QUOTE TERRENO	86'88' -	- 39,20 - 39,34	-39,56 -39,74
DIST.PARZIALI TERRENO	20,00	9,20	1,80 2,95 6,05
DIST.PARZIALI PROGETTO	86 27 00. 3,70	3,87 0 1 7 8 0	
QUOTA PROGETTO	- 39,12 - 39,69 - 39,69 - 39,69	- 39,79 - 39,68 - 39,30 - 39,30	



SCALA 1:200

QT.RIF. 28,000

QUOTE TERRENO

QUOTA PROGETTO

DIST.PARZIALI TERRENO

DIST.PARZIALI PROGETTO

1,39

18,61

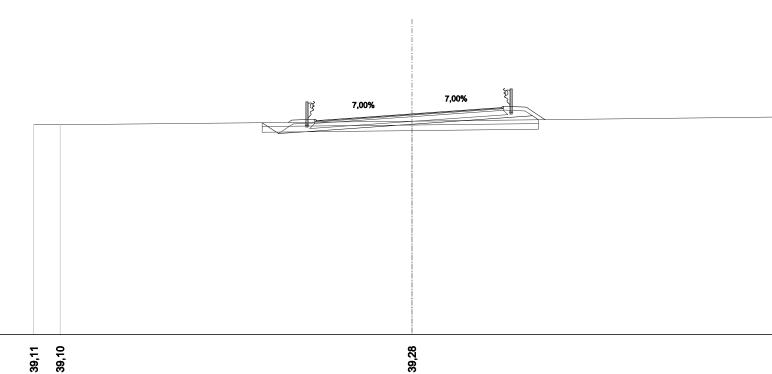
1,21

39,22 39,35 39,36 39,38 39,38

ASSE: B2

SEZIONE N.: 18

QT. PROGETTO: 39,677 DIST.PROG.: 214,165 DIST.PREC.: 13,333 DIST.SUCC.: 10,835



4,05

39,51

20,00

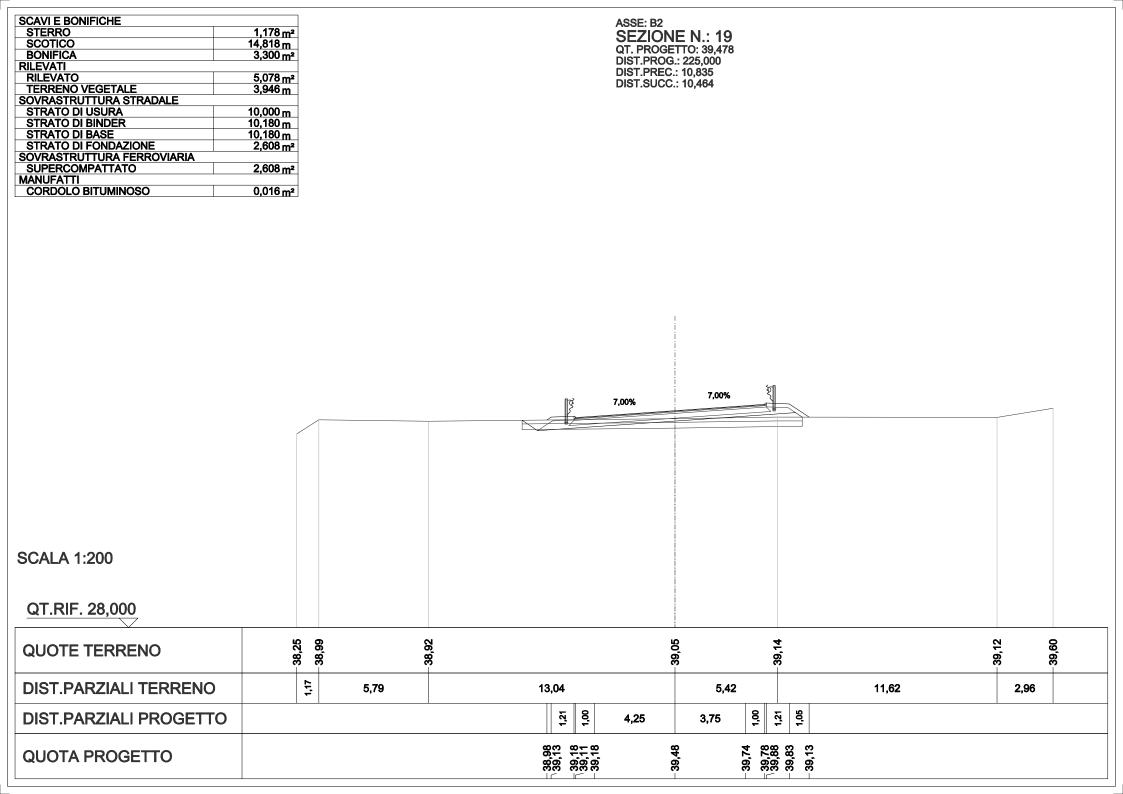
1,00

39,94 40,08 40,03 39,37

3,75

39,68

9,





QT.RIF. 27,000

QUOTE TERRENO

QUOTA PROGETTO

DIST.PARZIALI TERRENO

DIST.PARZIALI PROGETTO

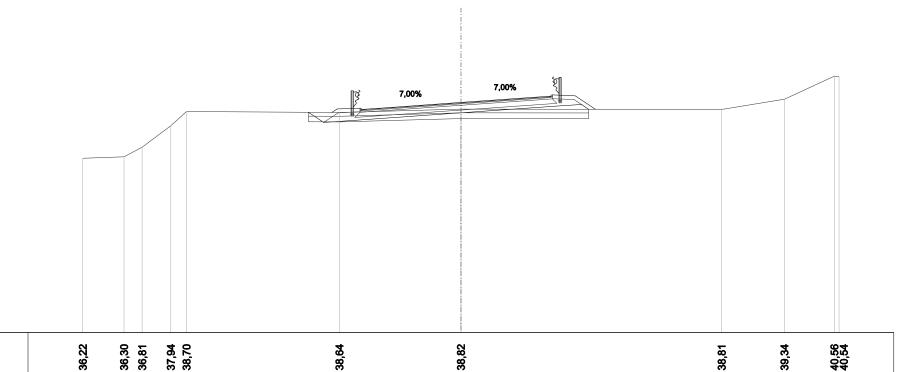
ි. 1,52 සි.

2,18

8,09

ASSE: B2

SEZIONE N.: 20 QT. PROGETTO: 39,173 DIST.PROG.: 235,464 DIST.PREC.: 10,464 DIST.SUCC.: 14,536



13,79

1,07

1,00

39,48 39,58 39,58 39,53 38,82

3,75

39,17

2,64

3,32

6,43

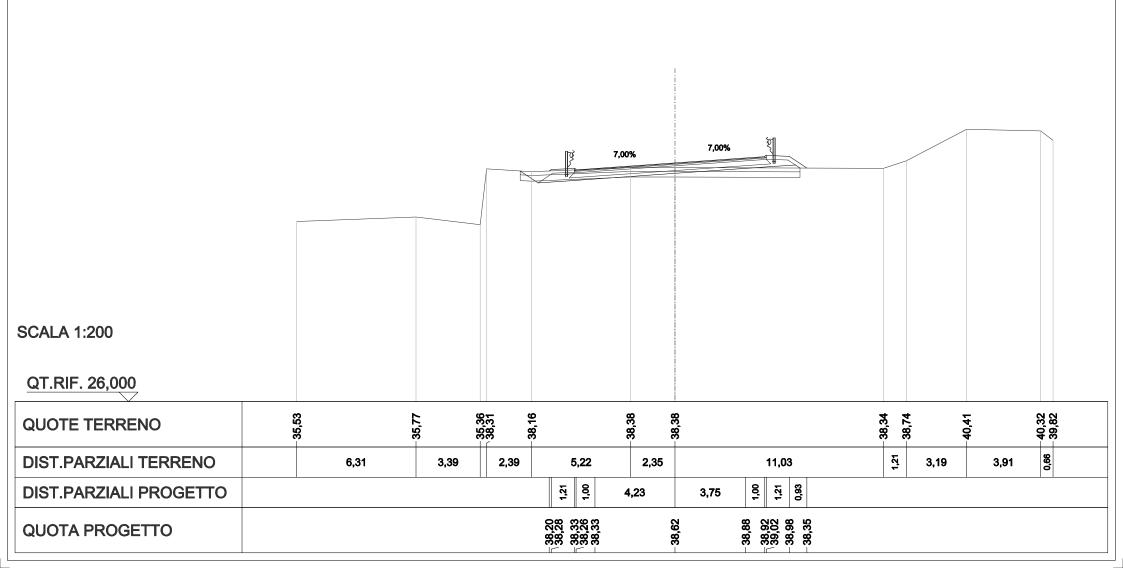
4,25

2, 6,

888 888 88 488 888 88

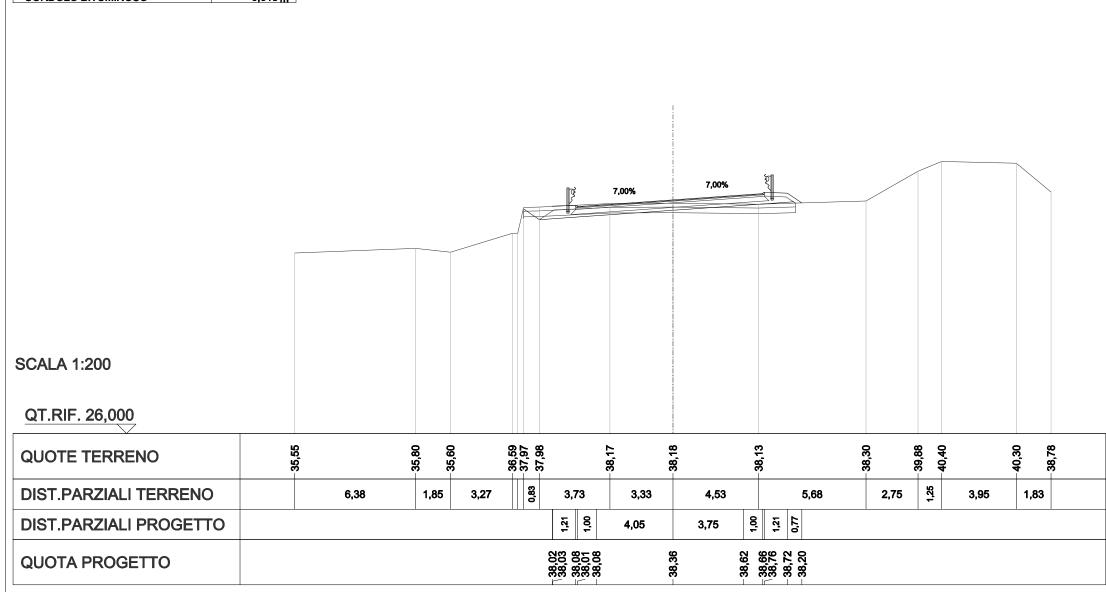
STERRO	2,286 m
SCOTICO	14,805 m
BONIFICA	2,363 m
RILEVATI	
RILEVATO	3,358 m
TERRENO VEGETALE	3,691 m
SOVRASTRUTTURA STRADALE	
STRATO DI USURA	9,981 m
STRATO DI BINDER	10,161 m
STRATO DI BASE	10,161 m
STRATO DI FONDAZIONE	2,603 m
SOVRASTRUTTURA FERROVIARIA	
SUPERCOMPATTATO	2,605 m
MANUFATTI	
CORDOLO BITUMINOSO	0,016 m

SEZIONE N.: 21 QT. PROGETTO: 38,622 DIST.PROG.: 250,000 DIST.PREC.: 14,536 DIST.SUCC.: 6,764



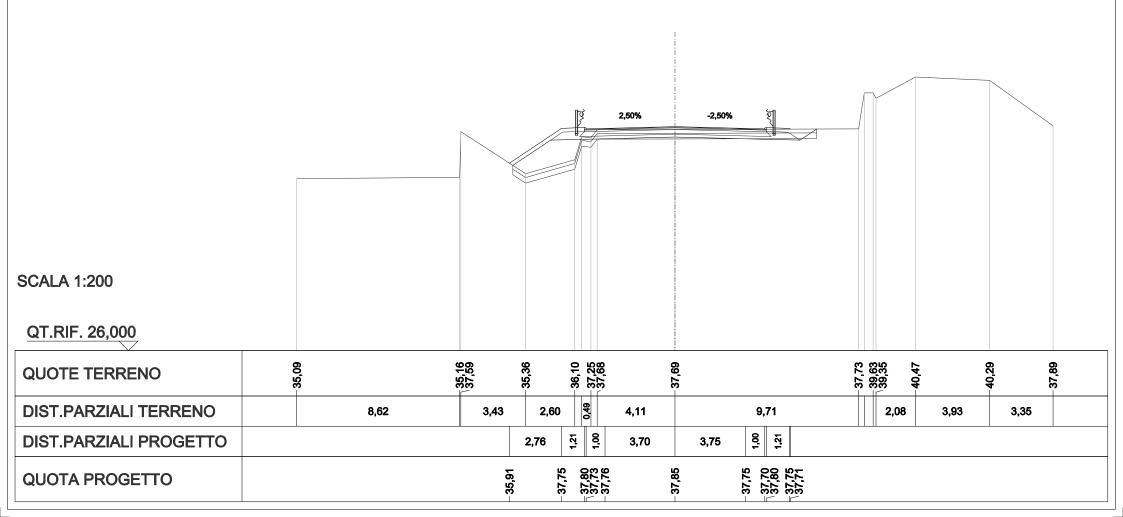
STERRO	2,866 m²
SCOTICO	14,390 m
BONIFICA	2,007 m ²
RILEVATI	
RILEVATO	2,713 m ²
TERRENO VEGETALE	3,376 m
SOVRASTRUTTURA STRADALE	
STRATO DI USURA	9,801 m
STRATO DI BINDER	9,981 m
STRATO DI BASE	9,981 m
STRATO DI FONDAZIONE	2,558 m ²
SOVRASTRUTTURA FERROVIARIA	
SUPERCOMPATTATO	2,578 m ²
MANUFATTI	
CORDOLO BITUMINOSO	0,015 m ²

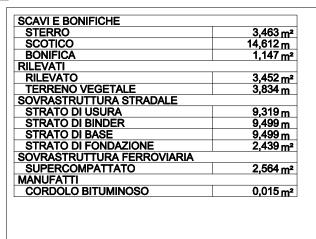
SEZIONE N.: 22 QT. PROGETTO: 38,362 DIST.PROG.: 256,764 DIST.PREC.: 6,764 DIST.SUCC.: 13,333





SEZIONE N.: 23 QT. PROGETTO: 37,849 DIST.PROG.: 270,097 DIST.PREC.: 13,333 DIST.SUCC.: 4,903





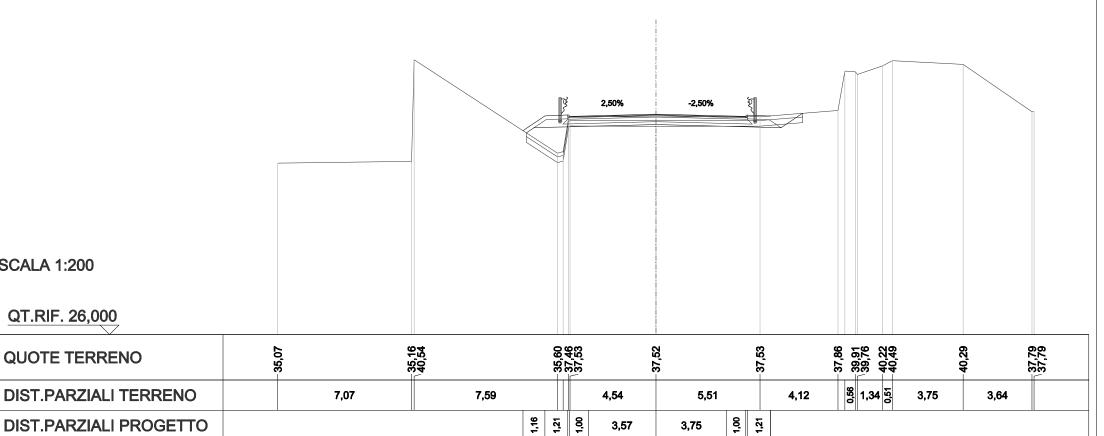
QT.RIF. 26,000

QUOTE TERRENO

QUOTA PROGETTO

ASSE: B2 **SEZIONE N.: 24** QT. PROGETTO: 37,660 DIST.PROG.: 275,000 DIST.PREC.: 4,903

DIST.SUCC.: 24,038



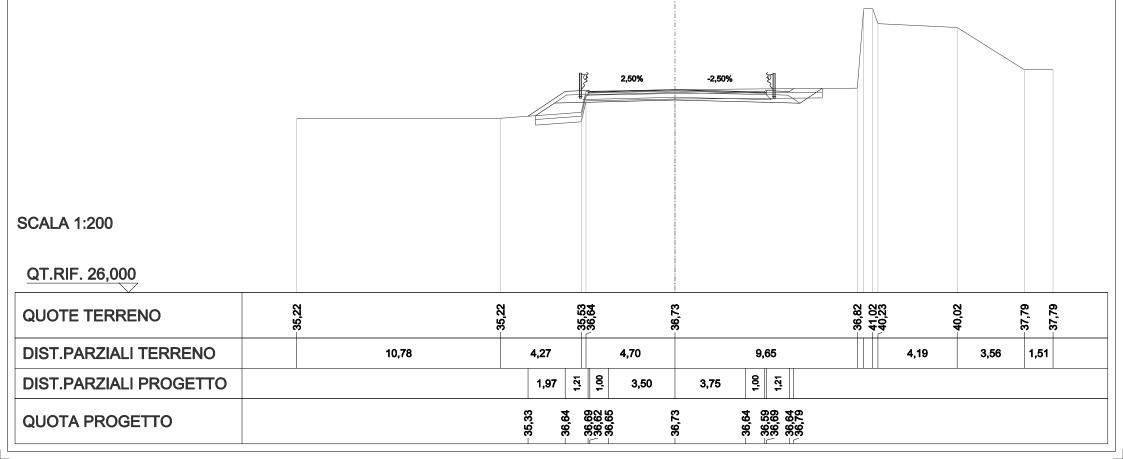
37,66

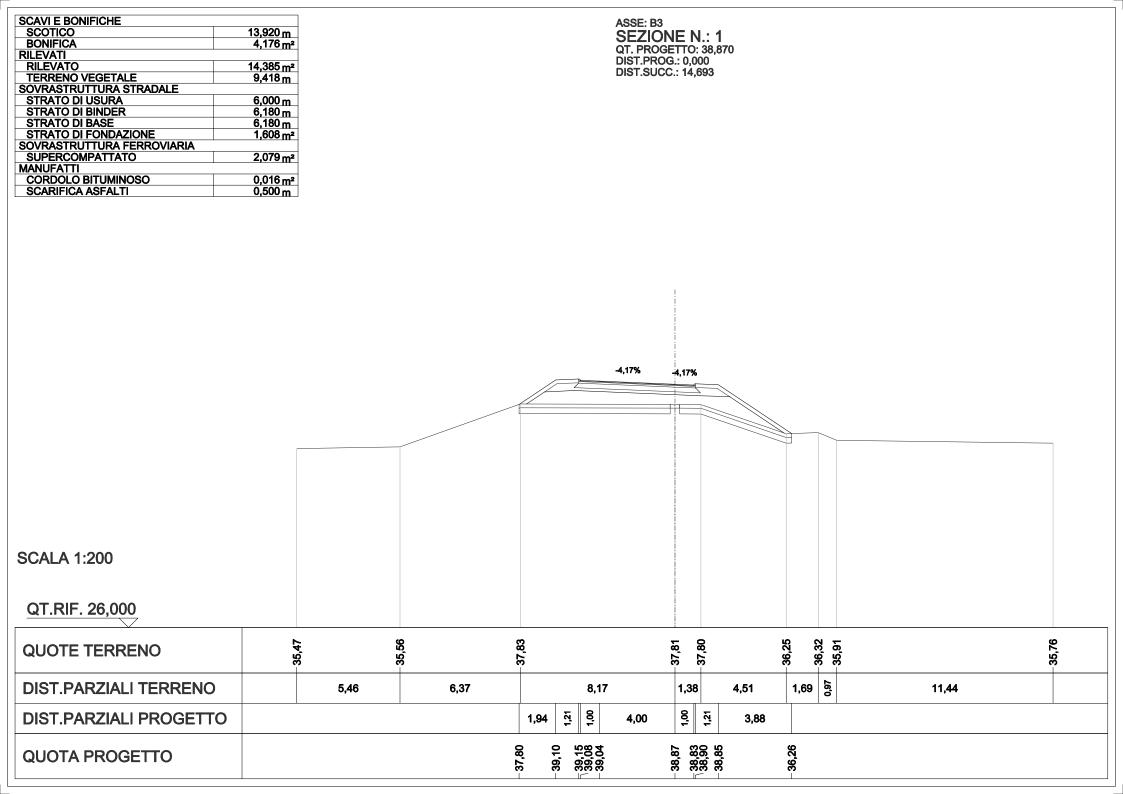
37,57 37,61 37,61 37,56

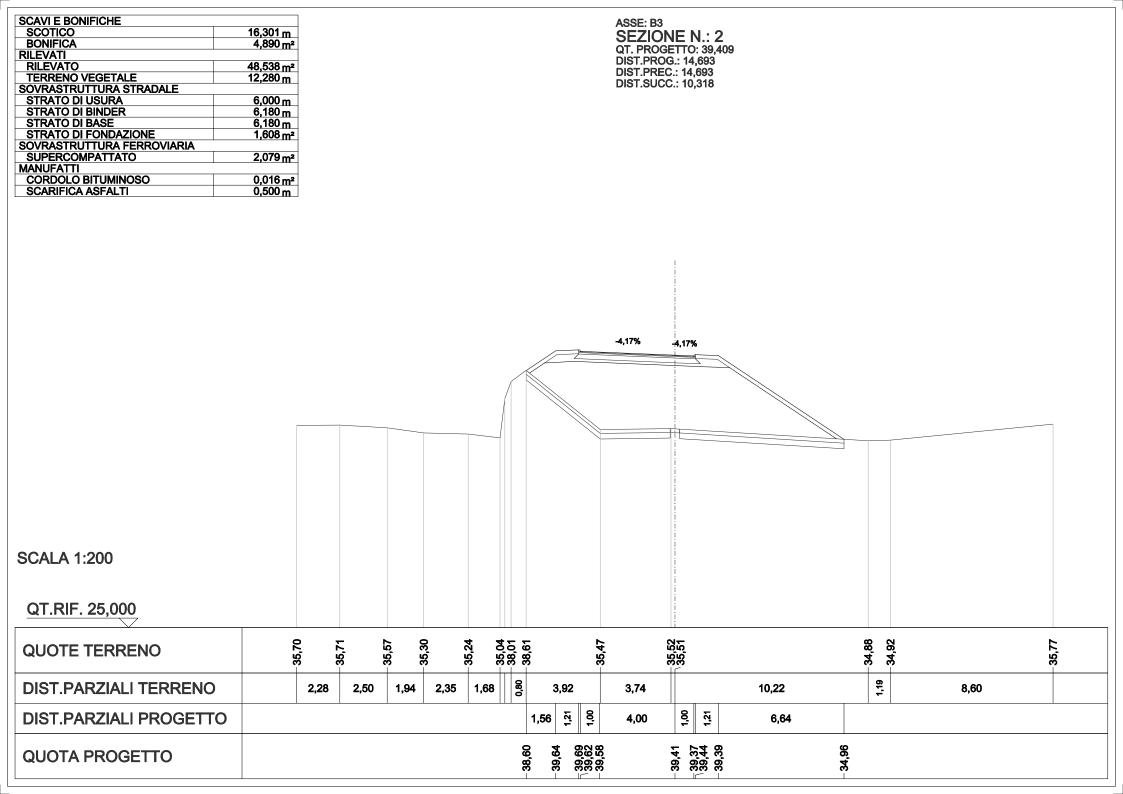
37,62 37,55 37,57

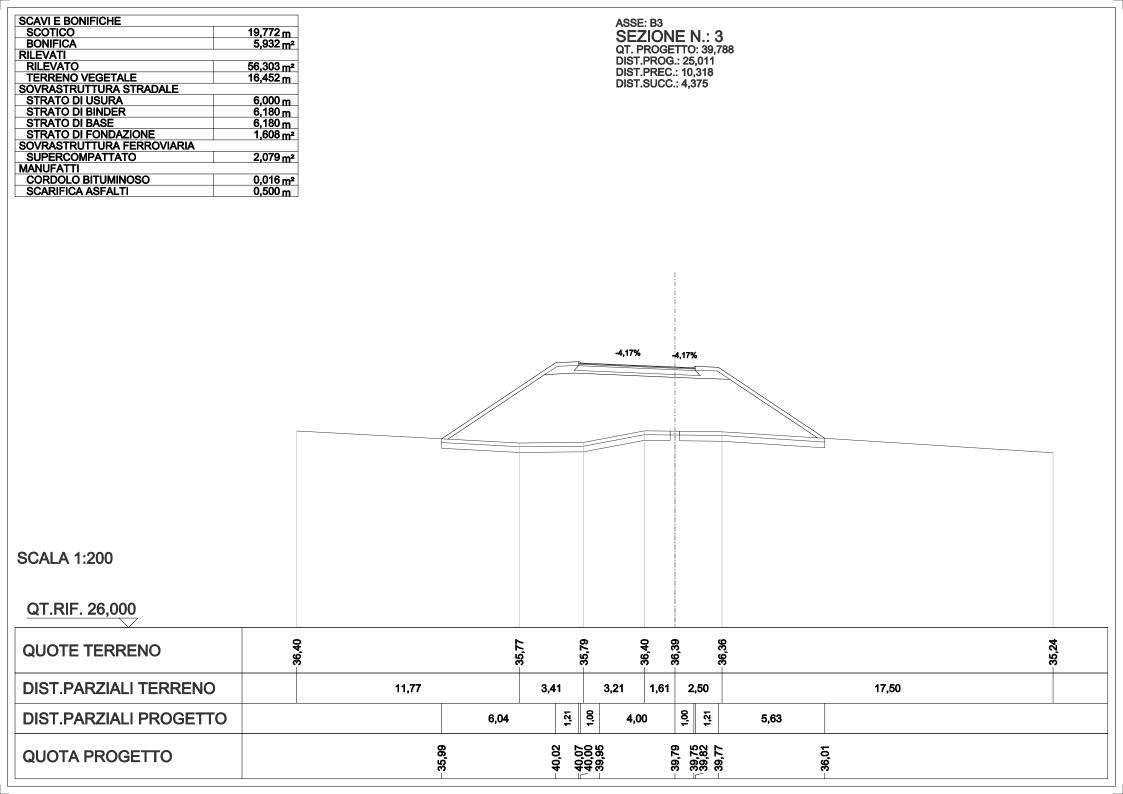


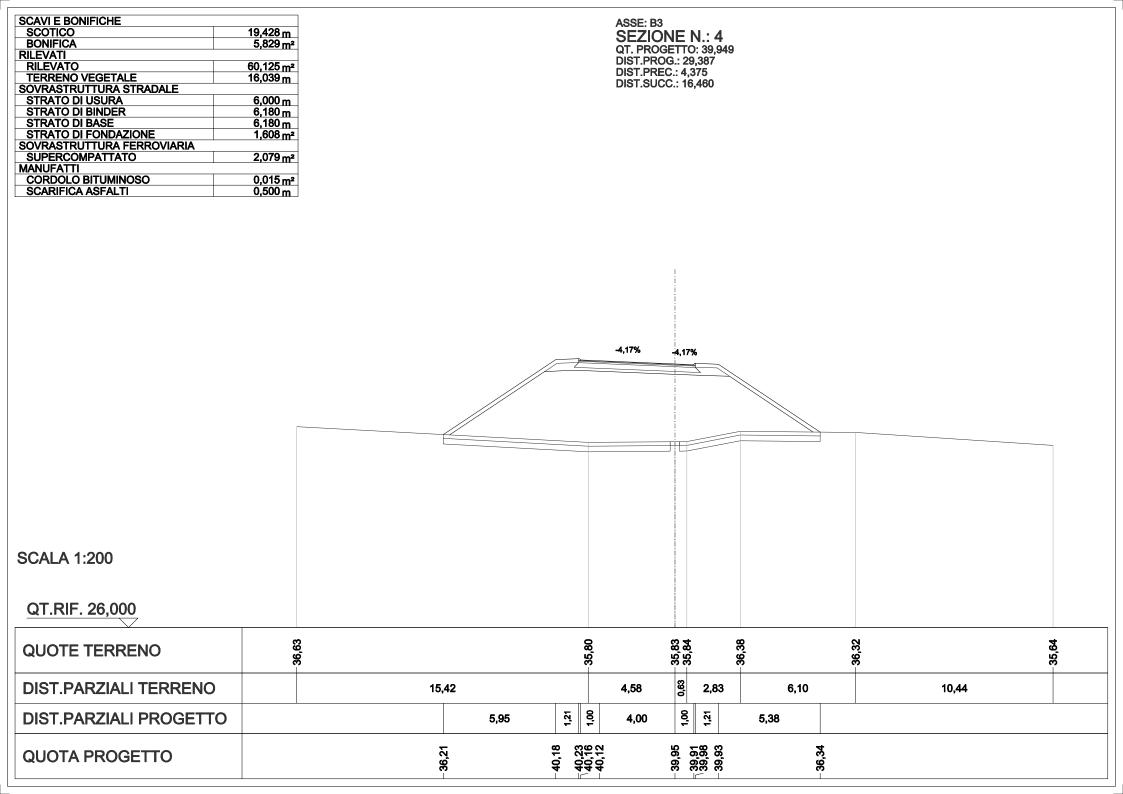
SEZIONE N.: 25 QT. PROGETTO: 36,734 DIST.PROG.: 299,038 DIST.PREC.: 24,038

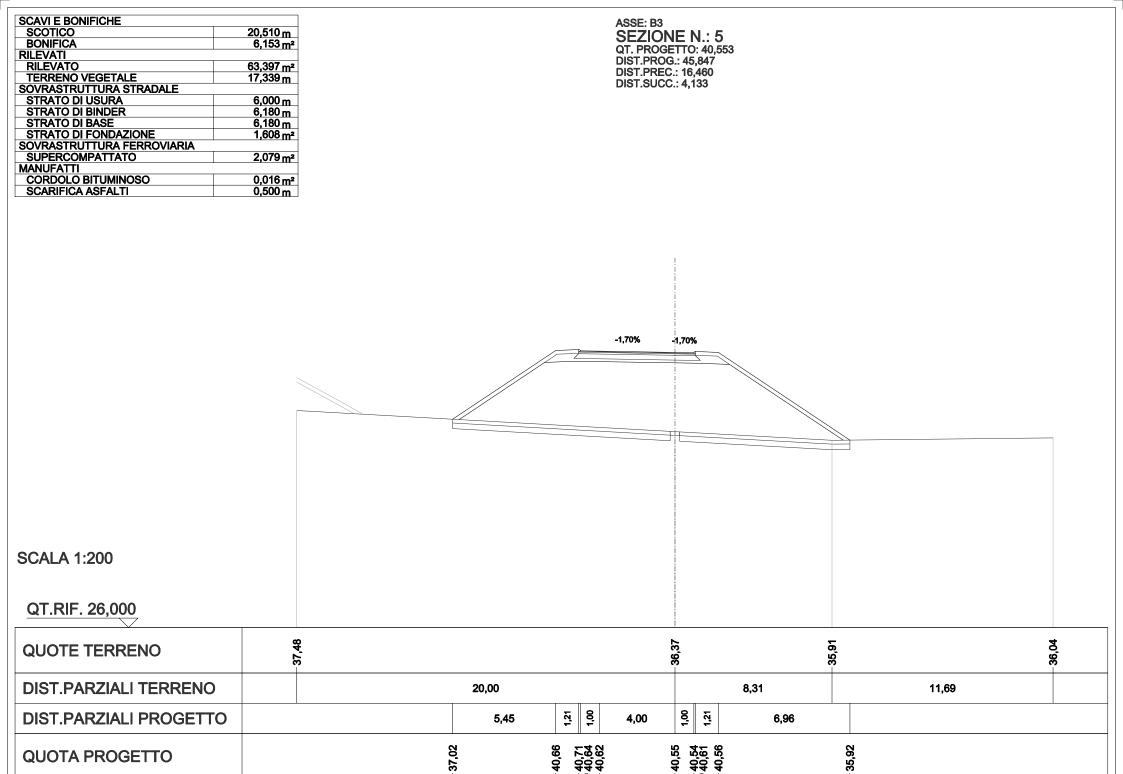


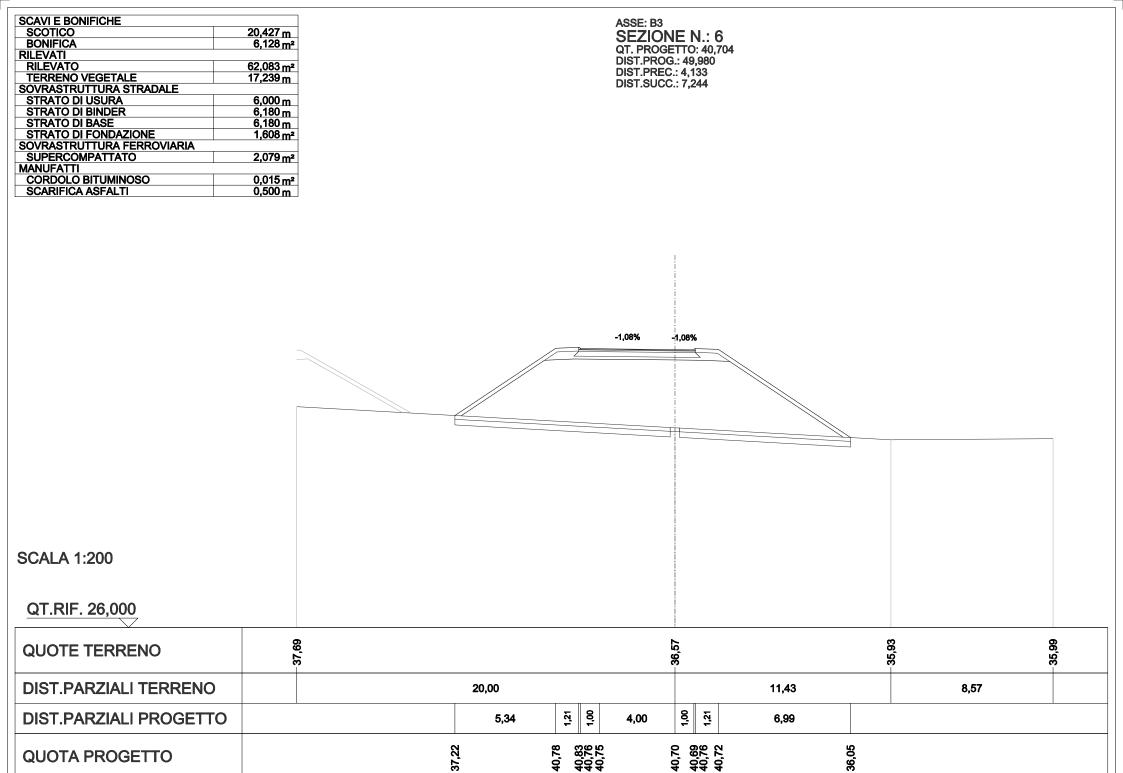














QT.RIF. 27,000

QUOTE TERRENO

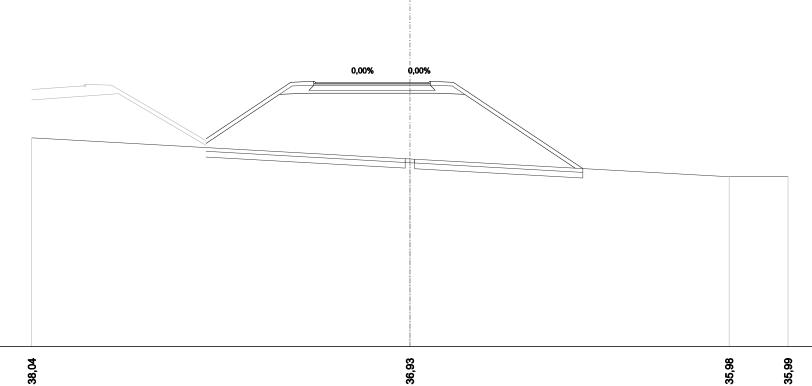
QUOTA PROGETTO

DIST.PARZIALI TERRENO

DIST.PARZIALI PROGETTO

ASSE: B3

SEZIONE N.: 7 QT. PROGETTO: 40,958 DIST.PROG.: 57,225 DIST.PREC.: 7,244 **DIST.SUCC.: 11,685**



9, 1,21

40,96 41,03 40,98

4,00

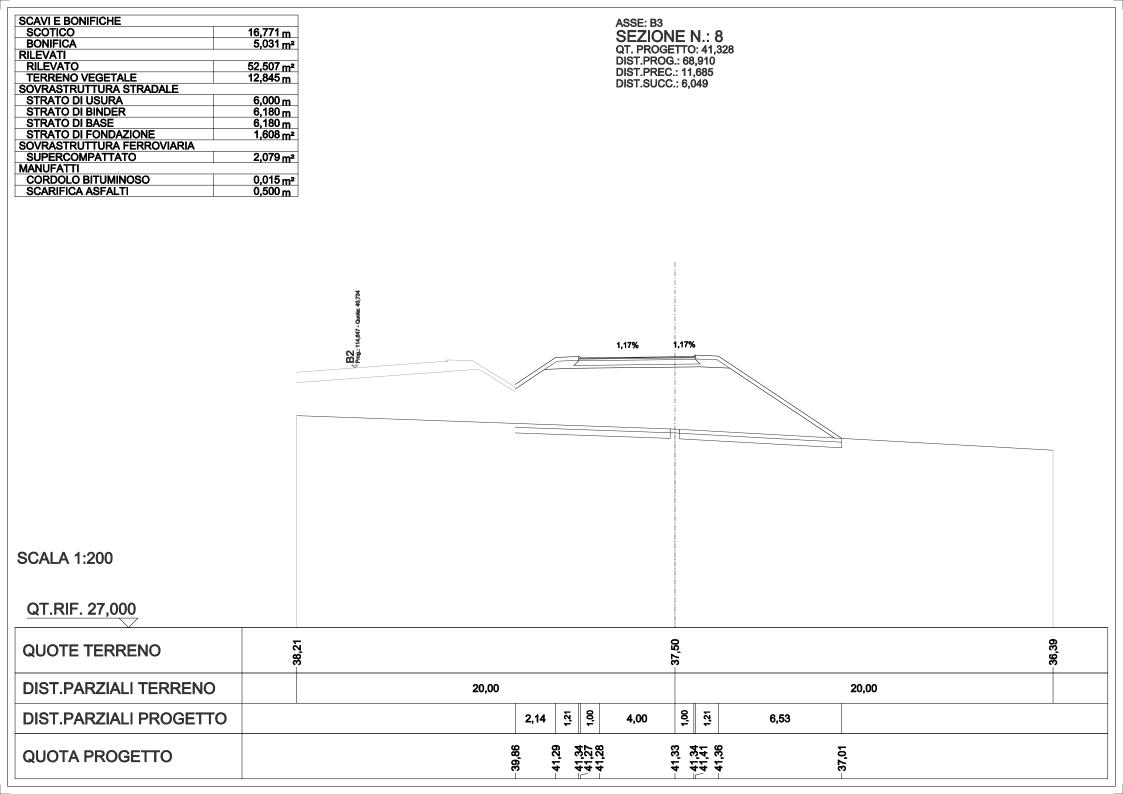
20,00

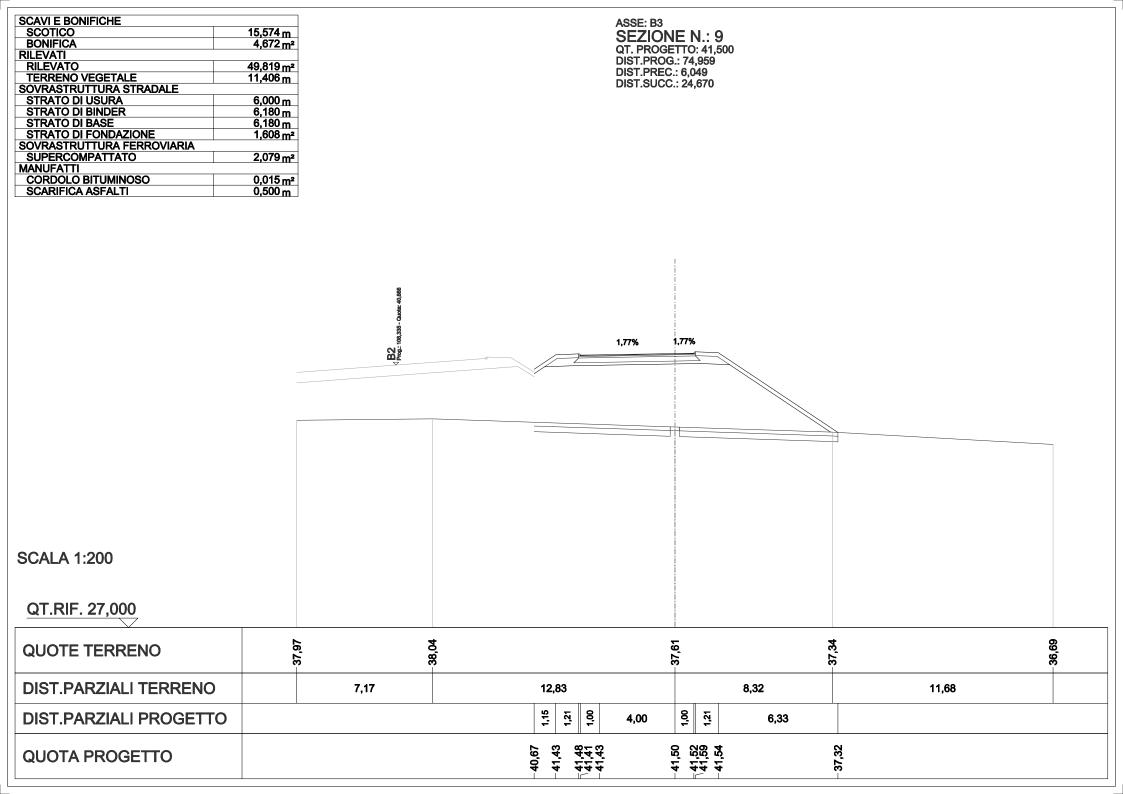
4,49

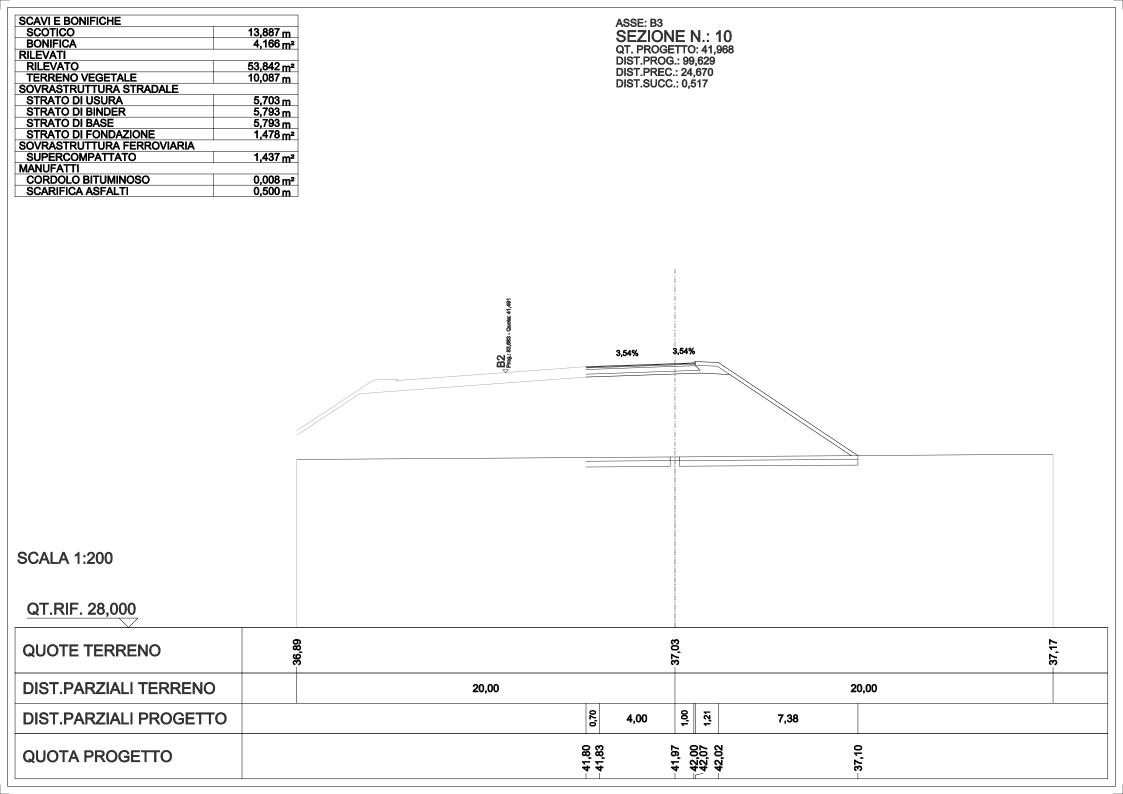
1,21 6, 16,89

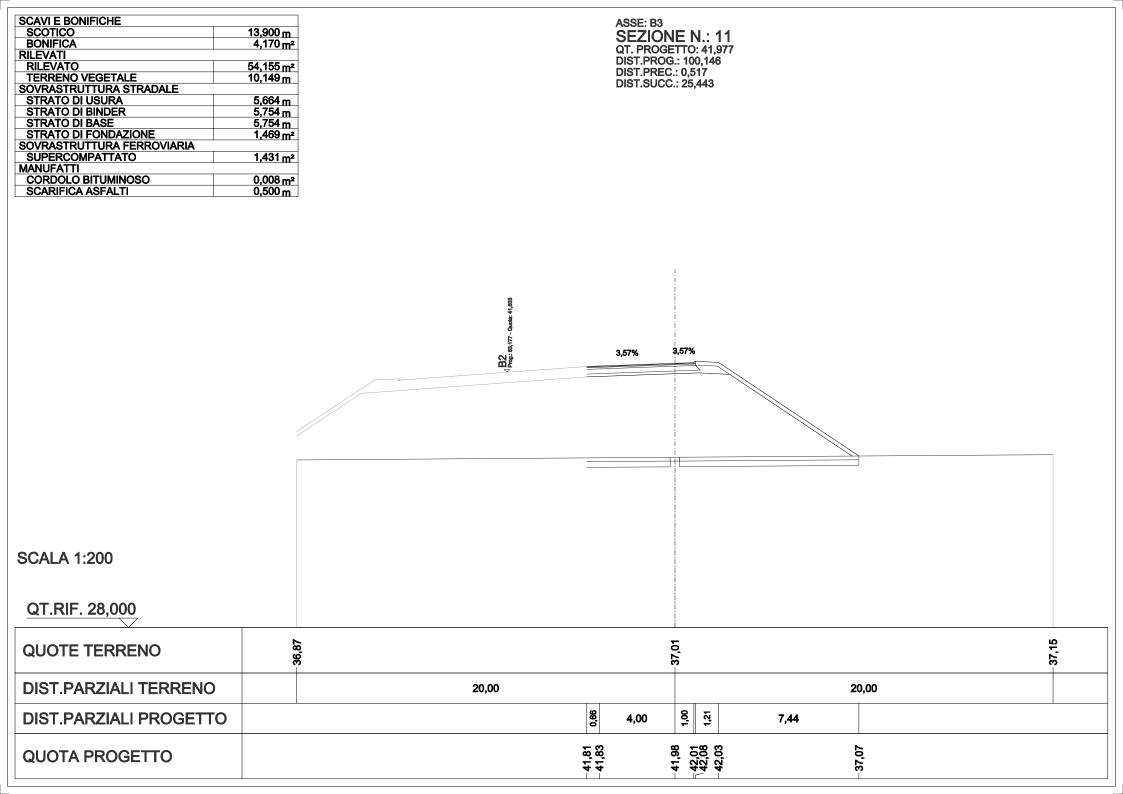
36,41

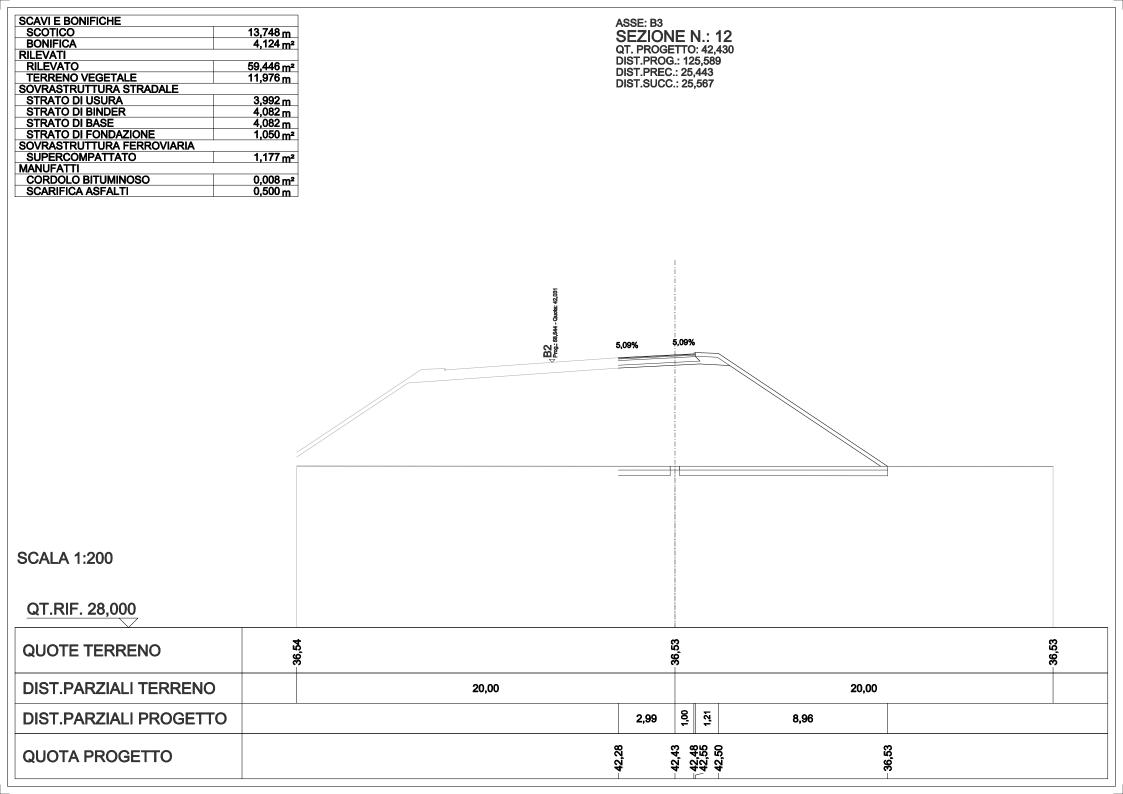
6,84

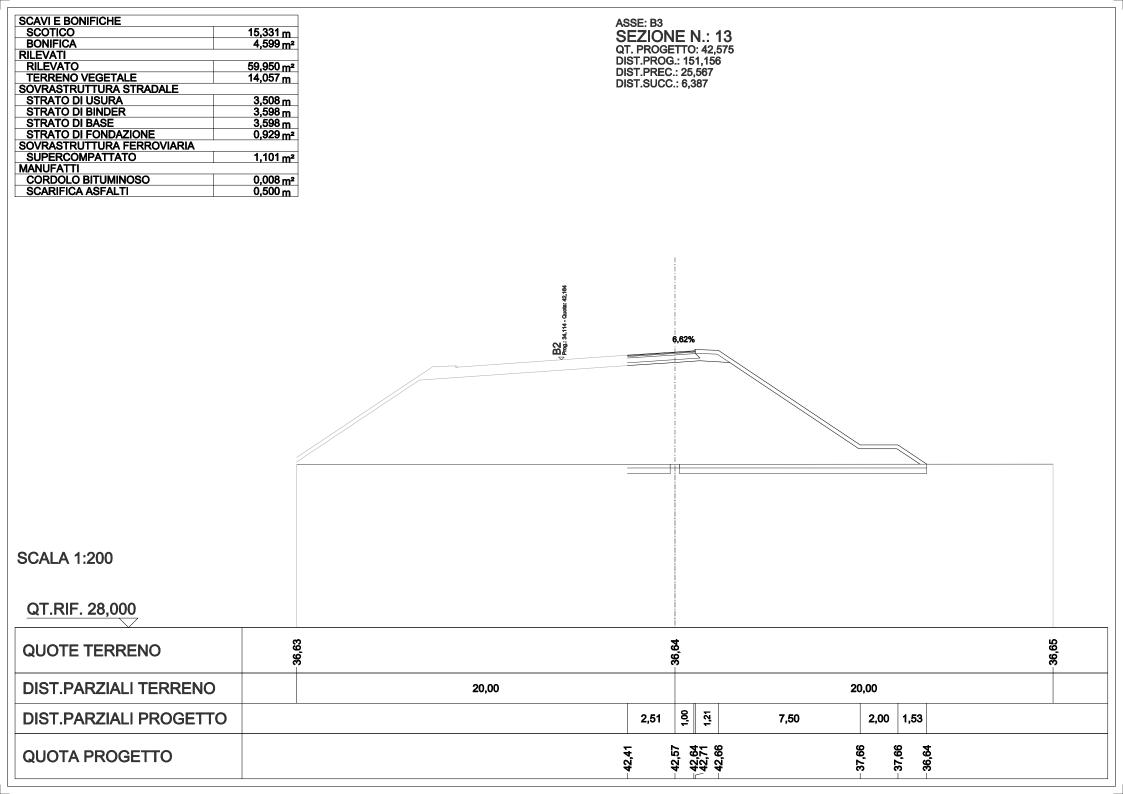


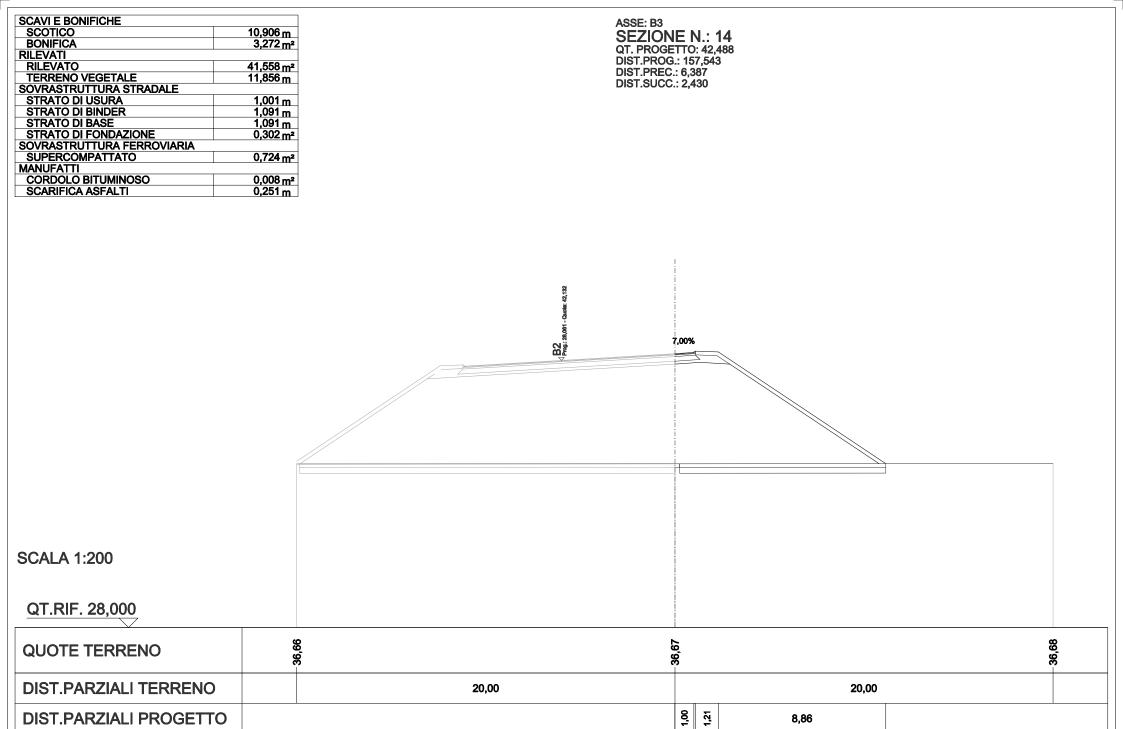




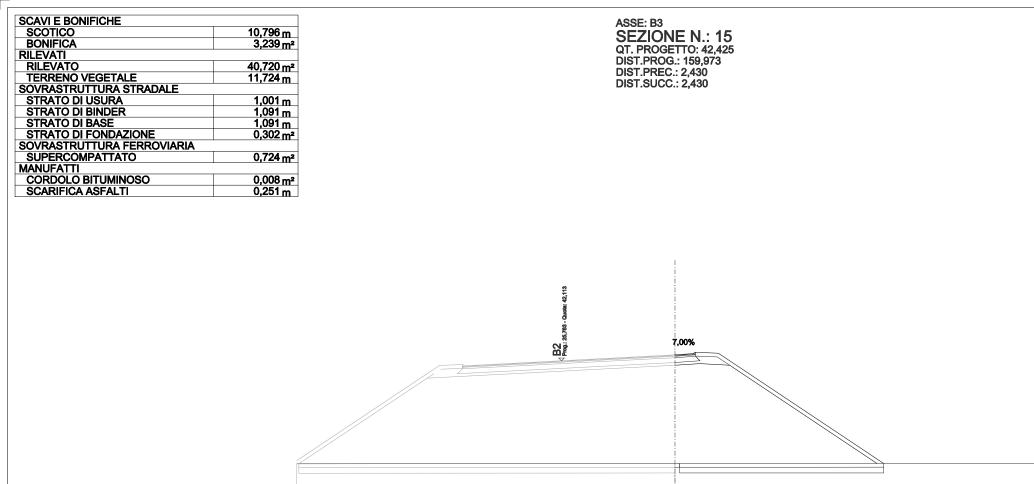






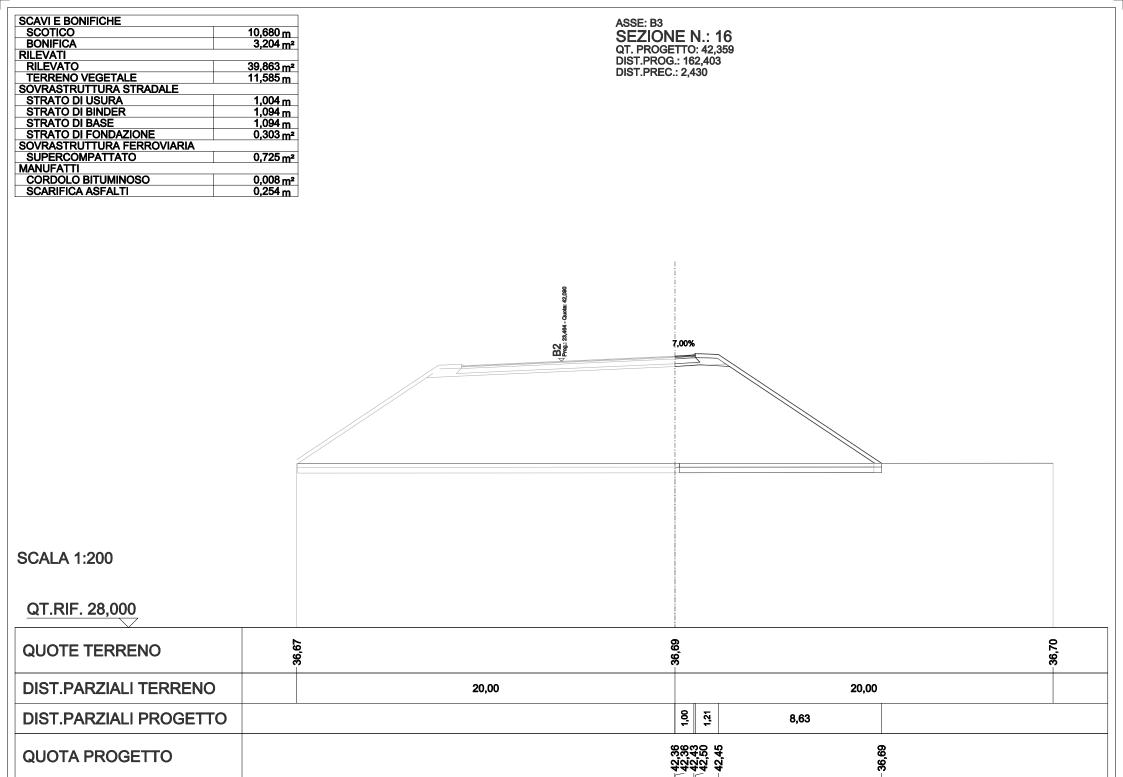


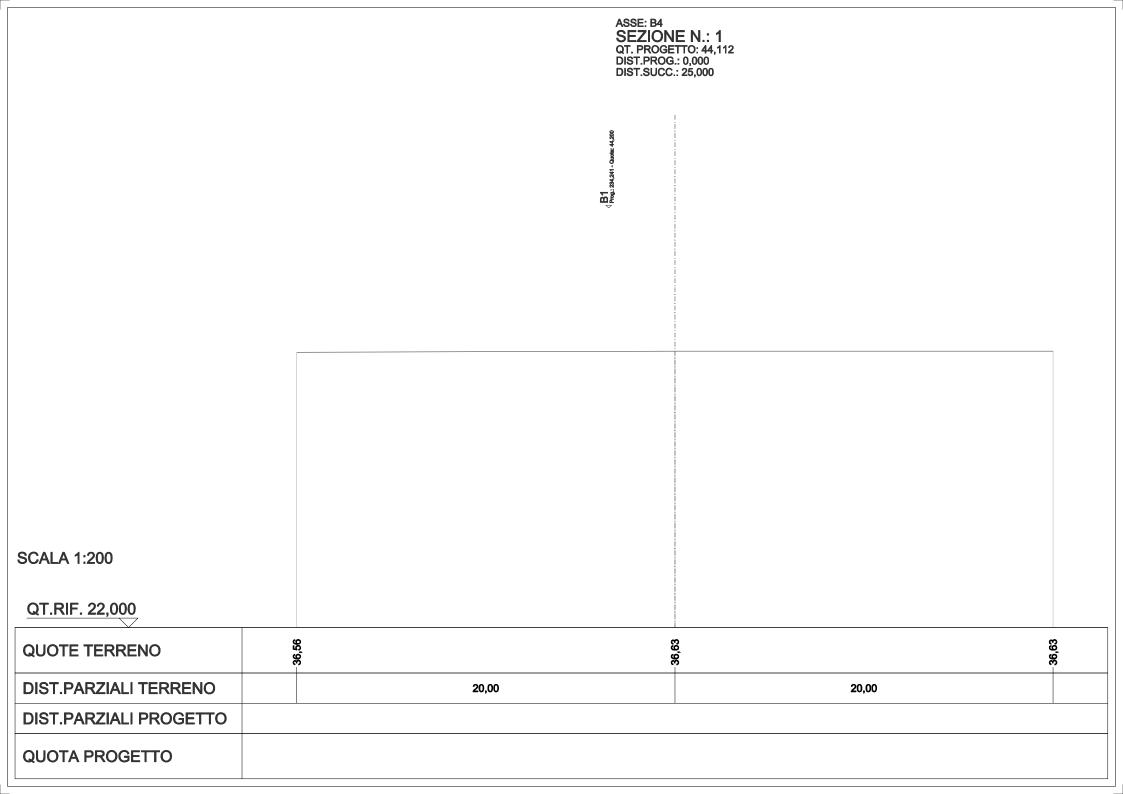
QUOTA PROGETTO

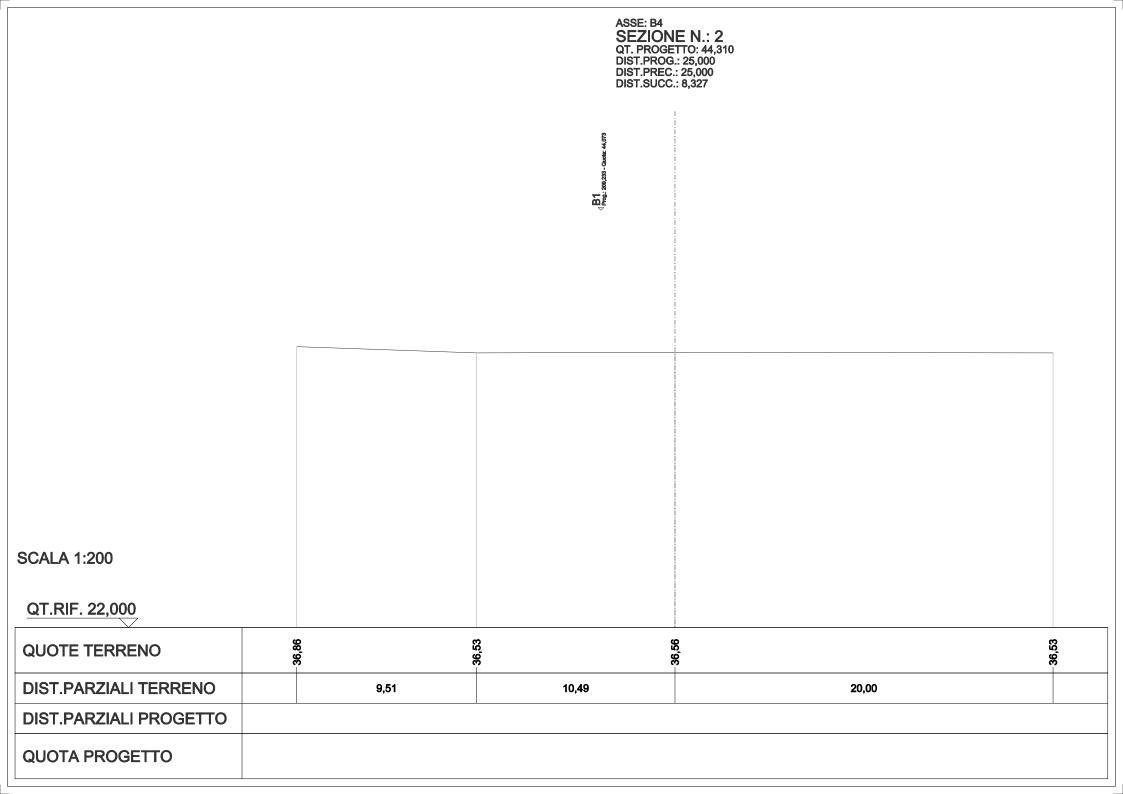


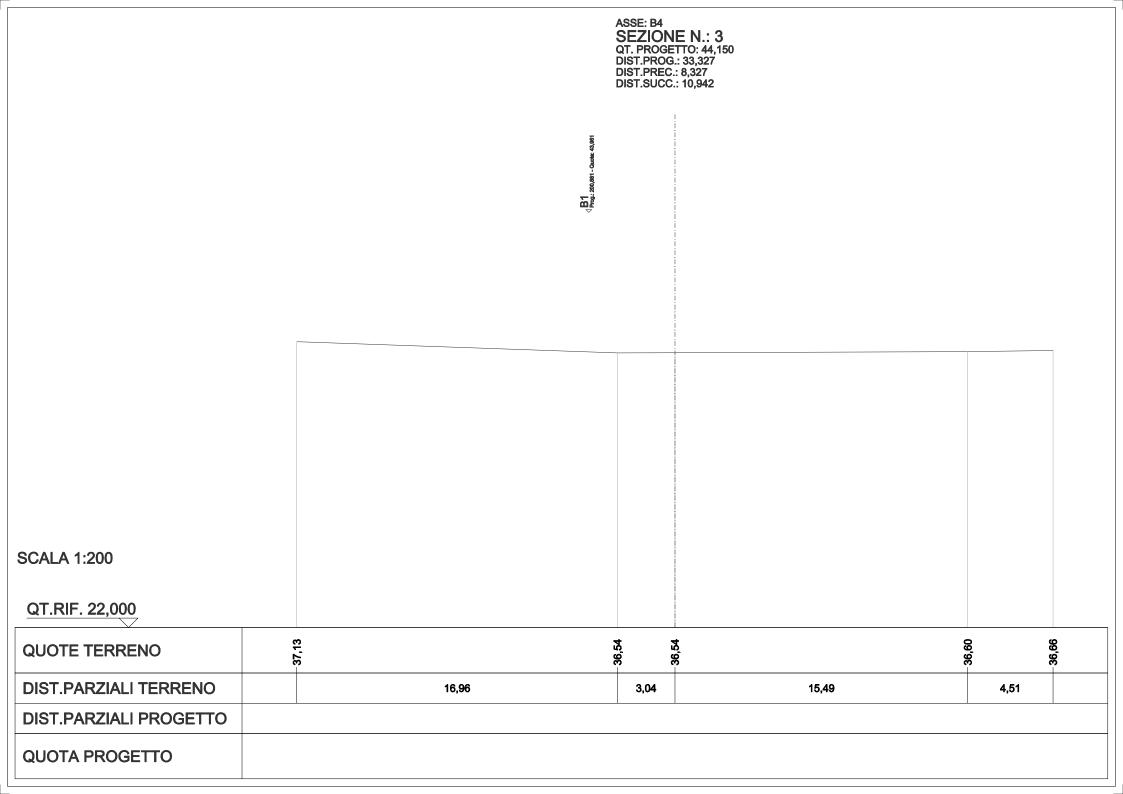
QT.RIF. 28,000

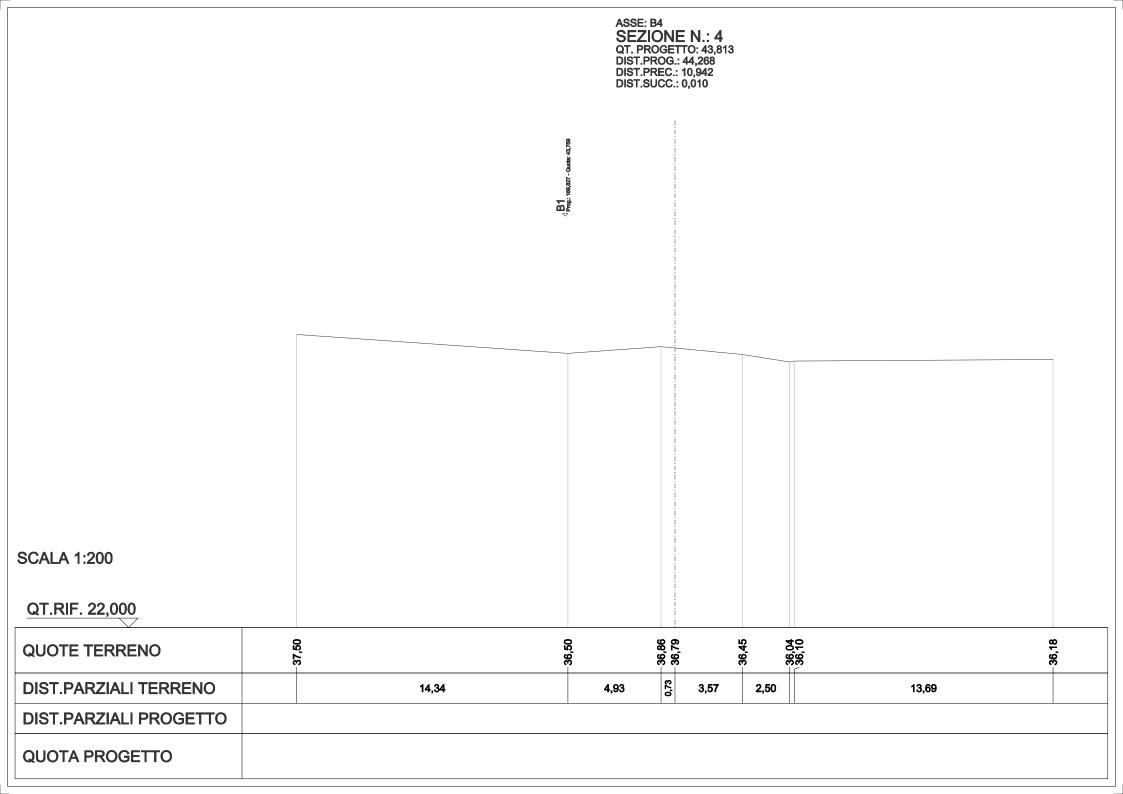
QUOTE TERRENO		-36,68 -	-36,69
DIST.PARZIALI TERRENO	20,00	20,00	
DIST.PARZIALI PROGETTO		8,75	
QUOTA PROGETTO		422.43 42.543 42.557 42.557 -36.68	

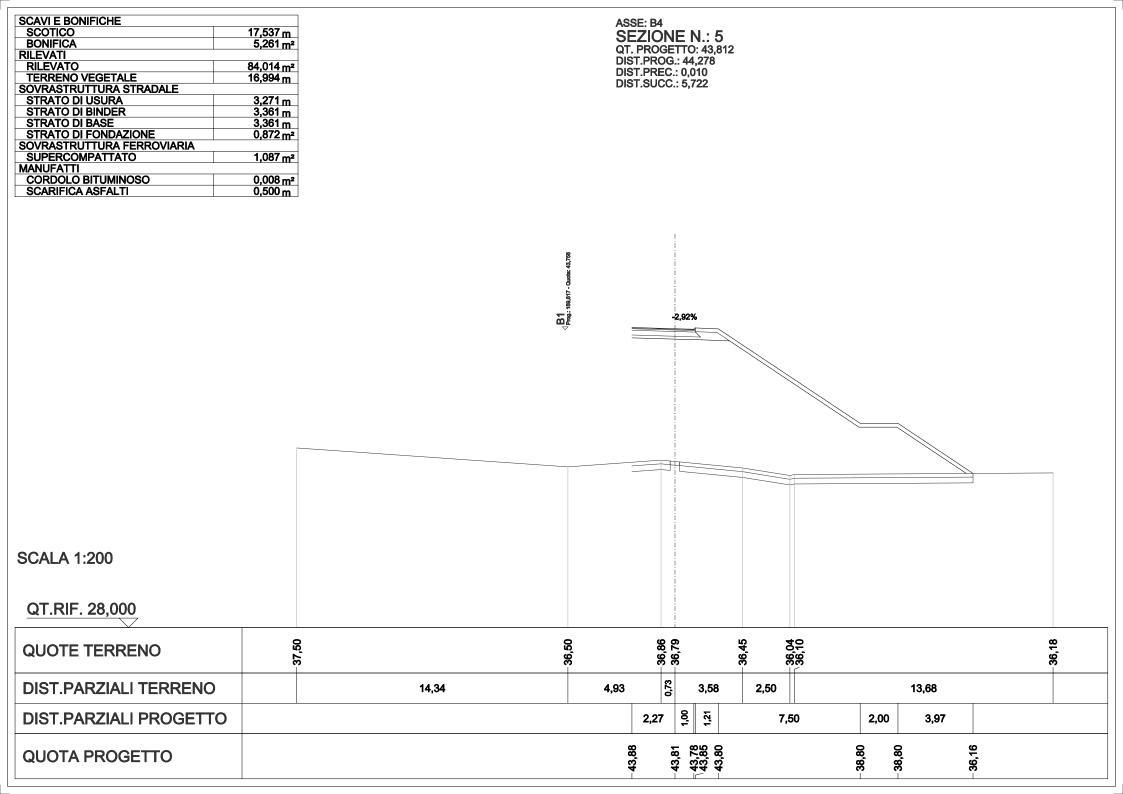


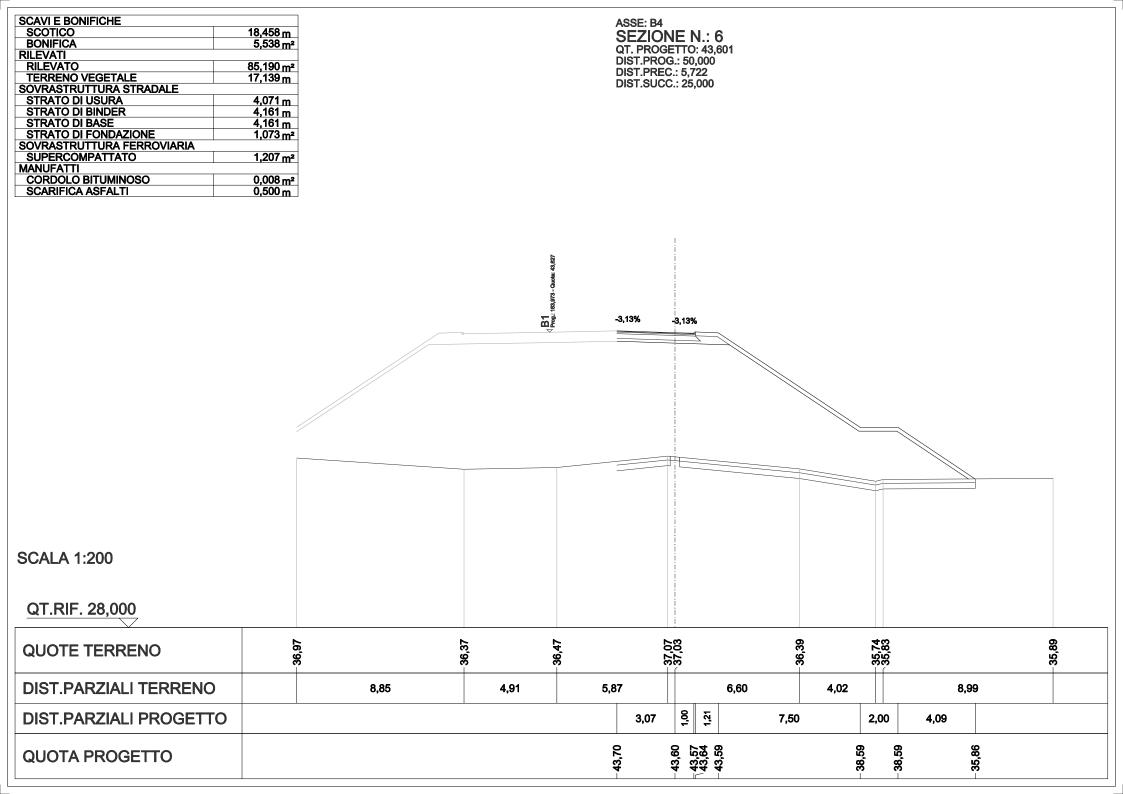


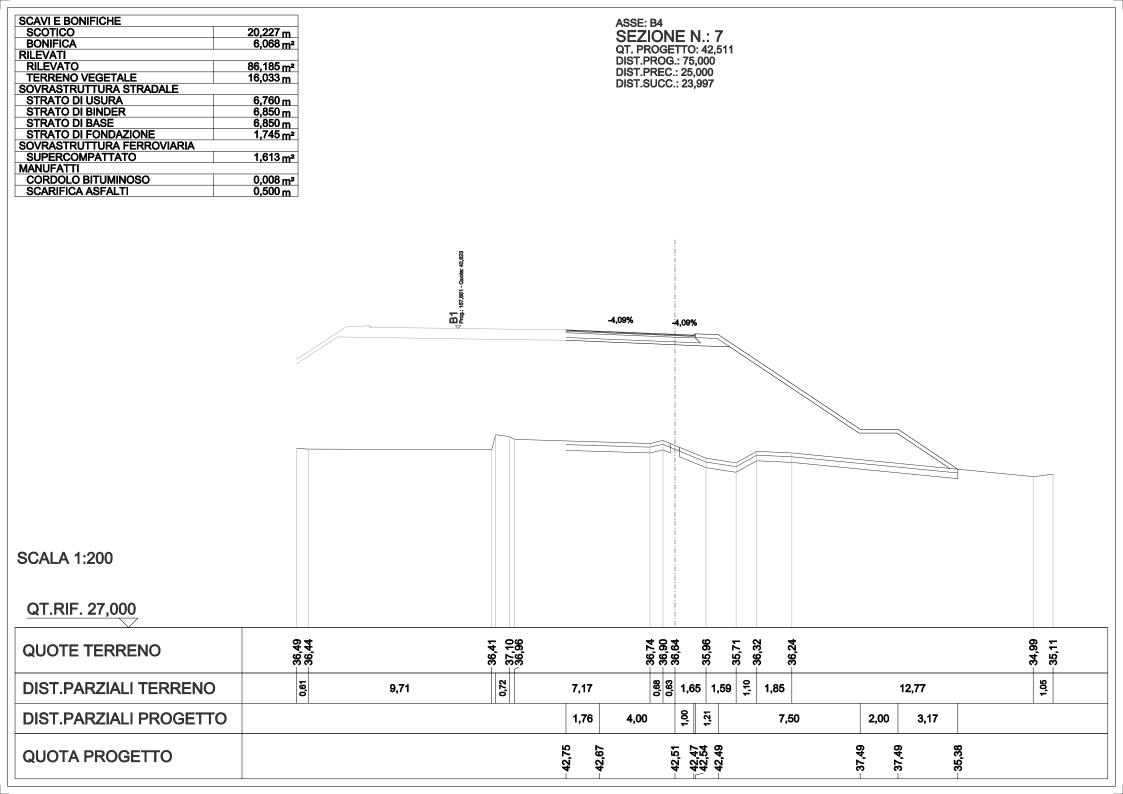


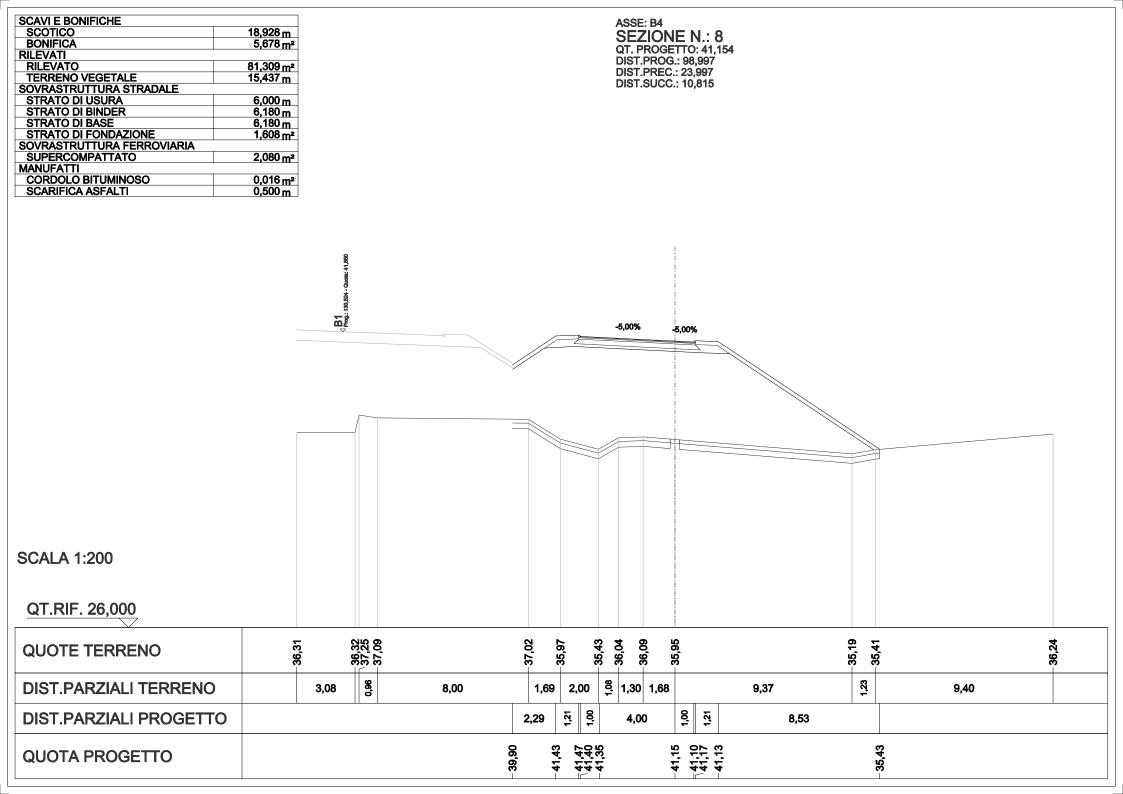


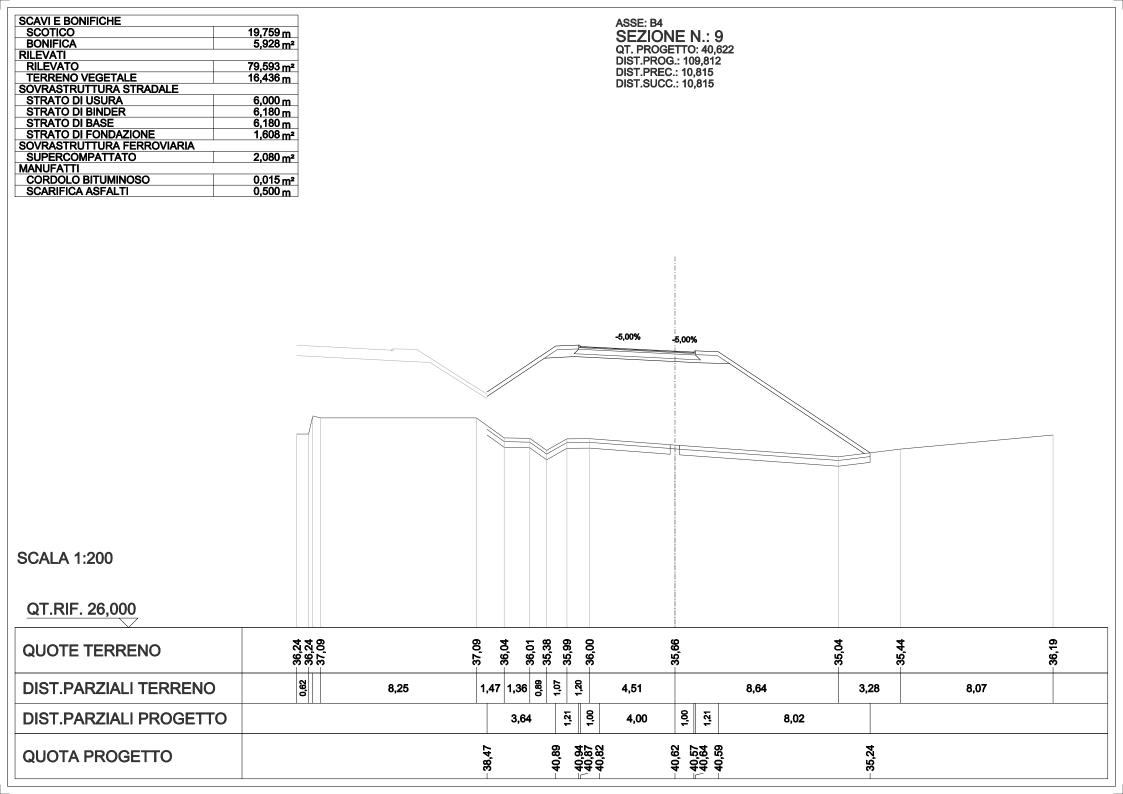


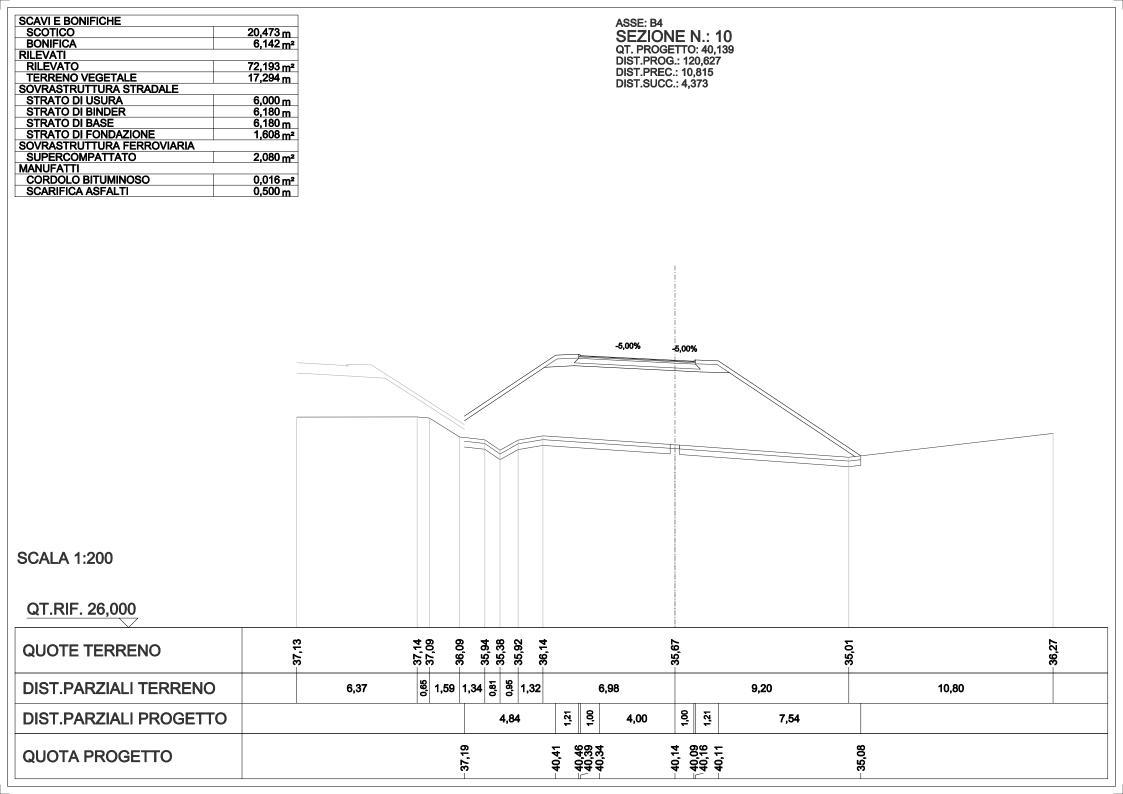


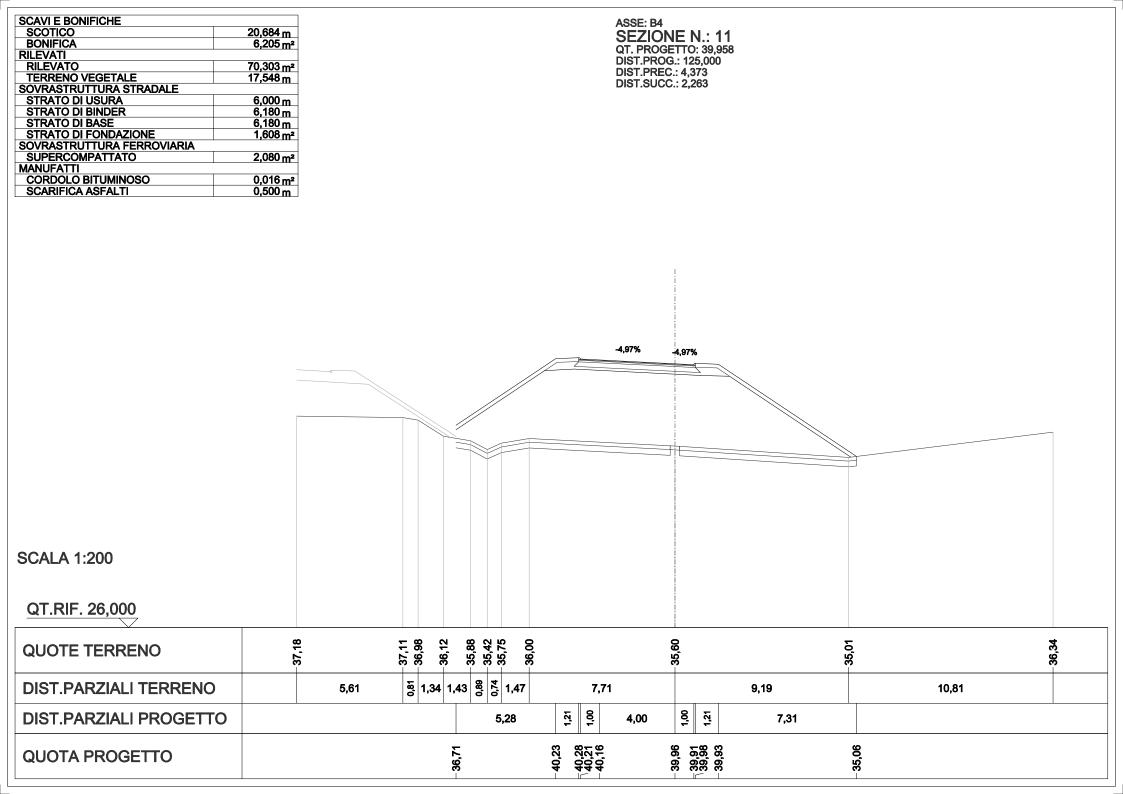


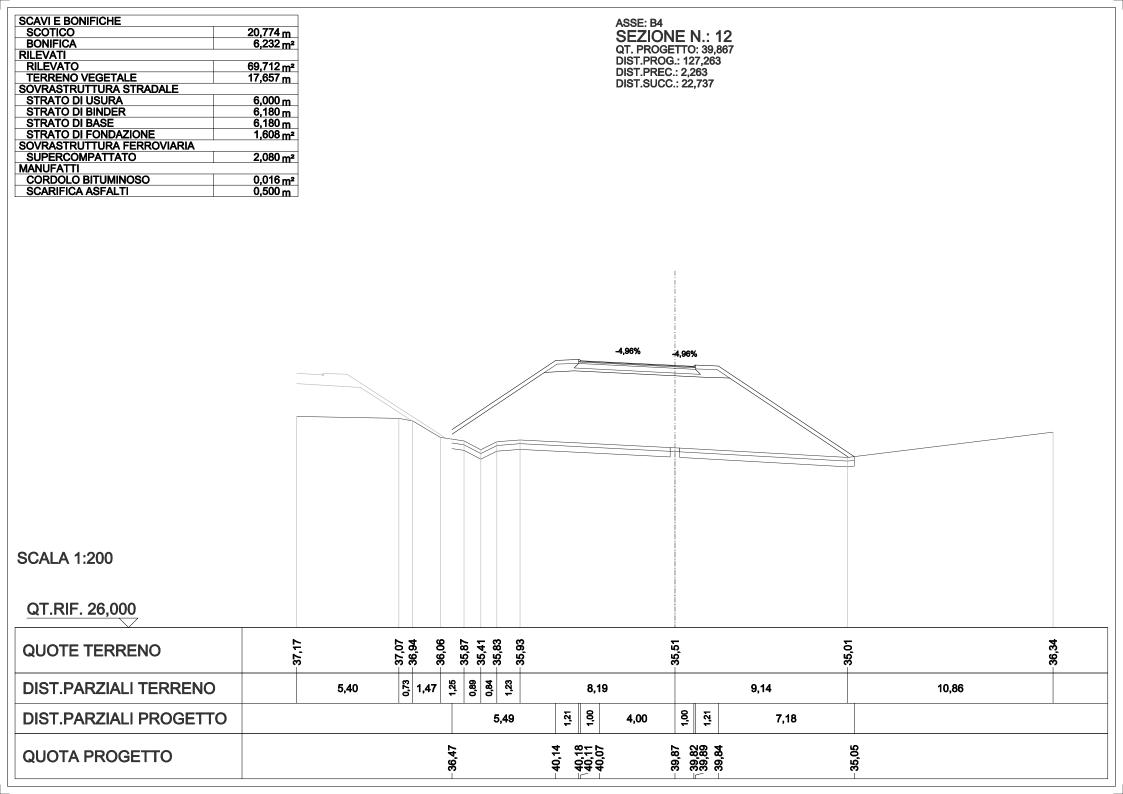


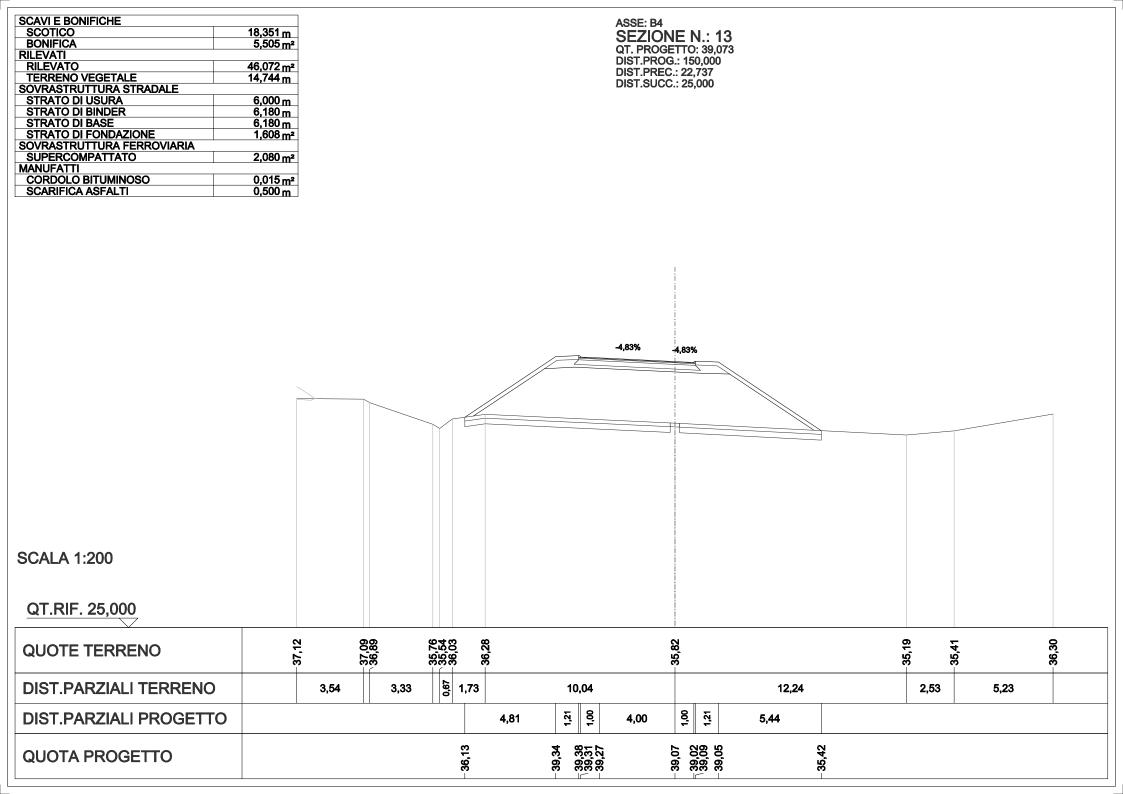


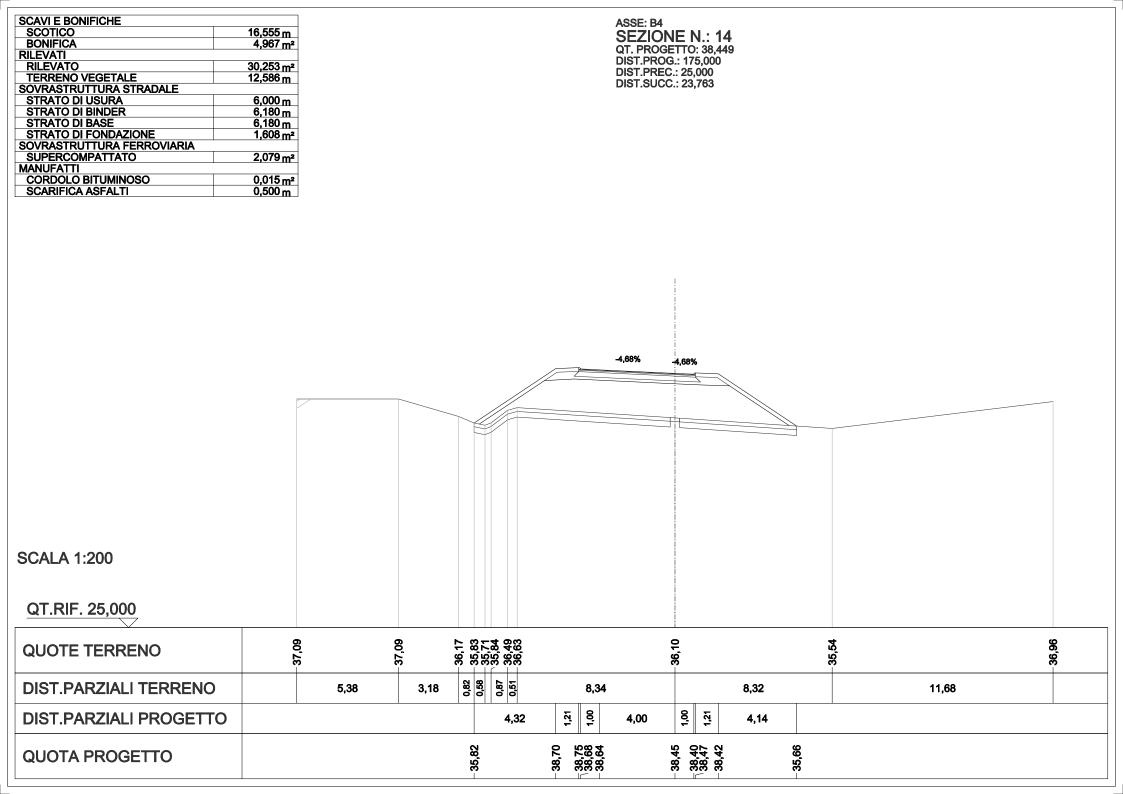














QT.RIF. 25,000

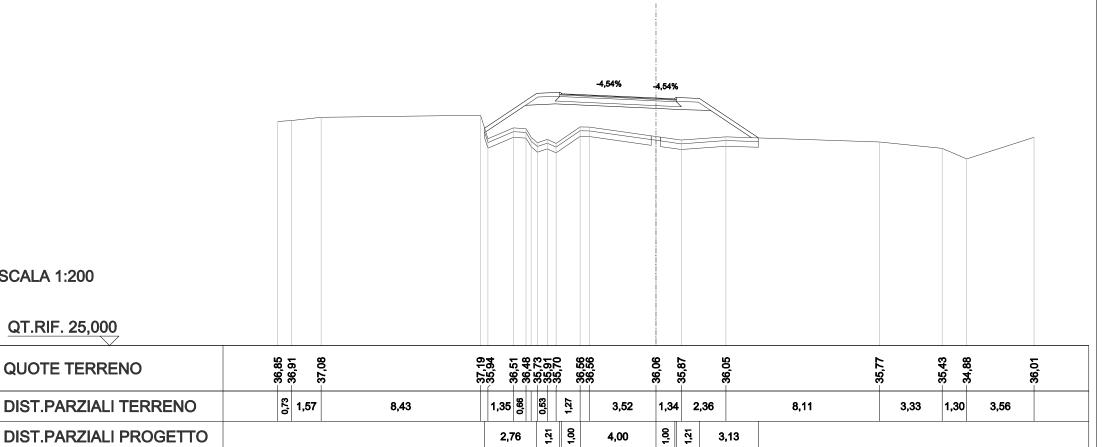
QUOTE TERRENO

QUOTA PROGETTO

DIST.PARZIALI TERRENO

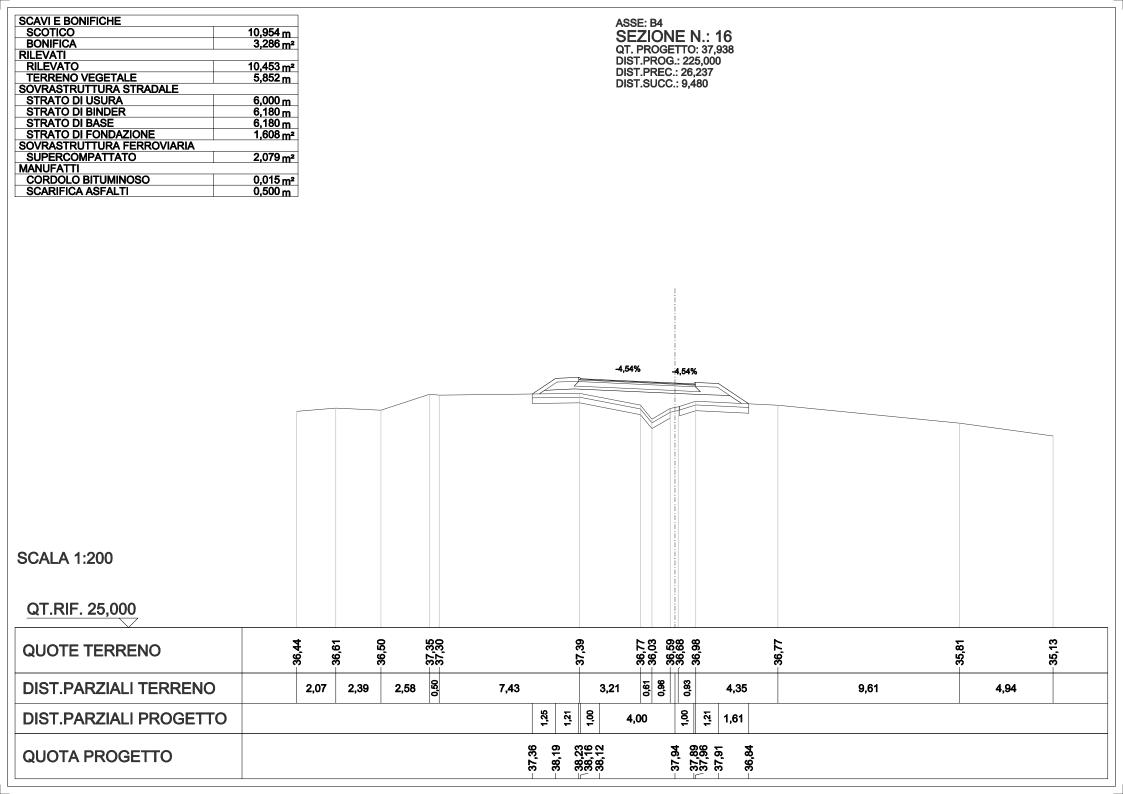
ASSE: B4

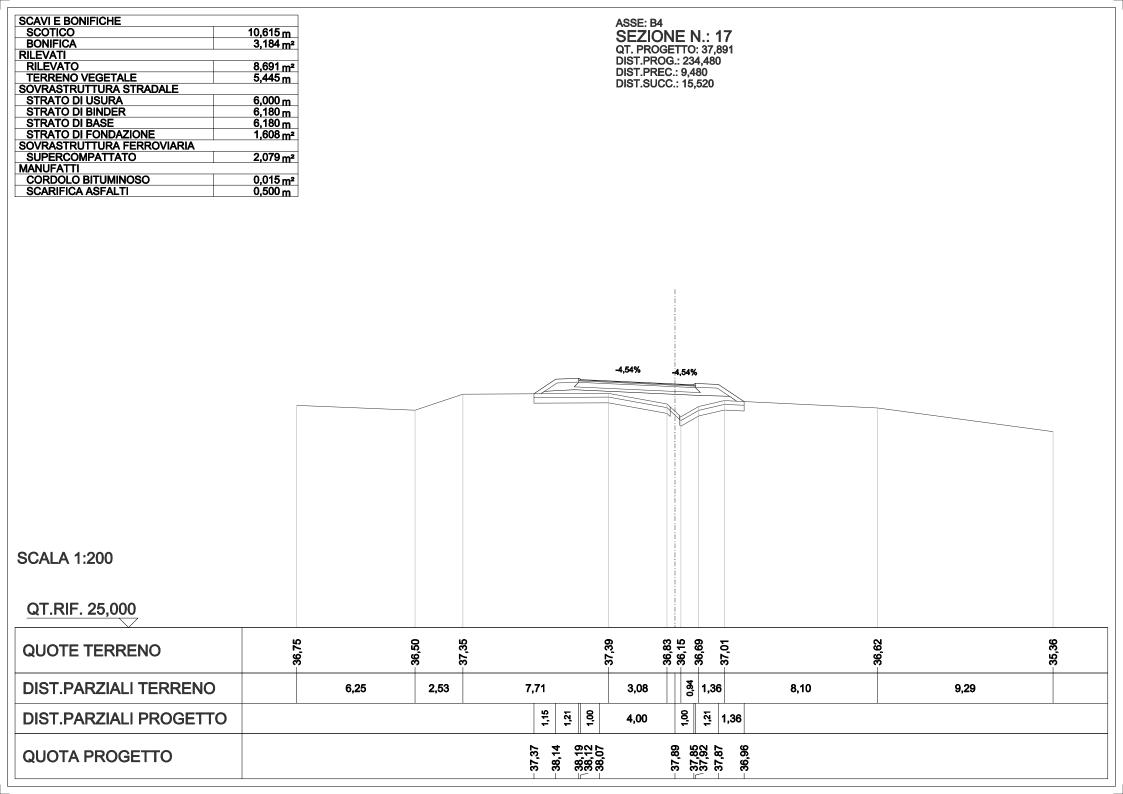
SEZIONE N.: 15 QT. PROGETTO: 38,097 DIST.PROG.: 198,763 DIST.PREC.: 23,763 DIST.SUCC.: 26,237

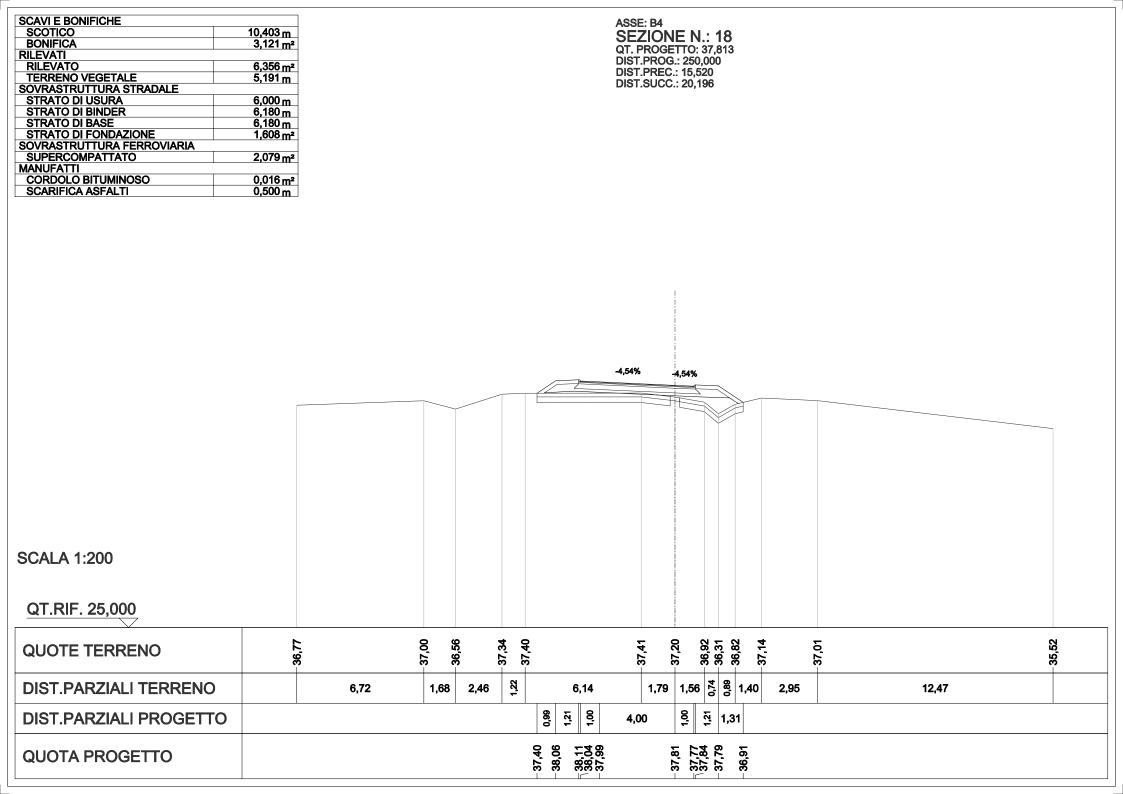


38,10 38,05 38,12 38,07

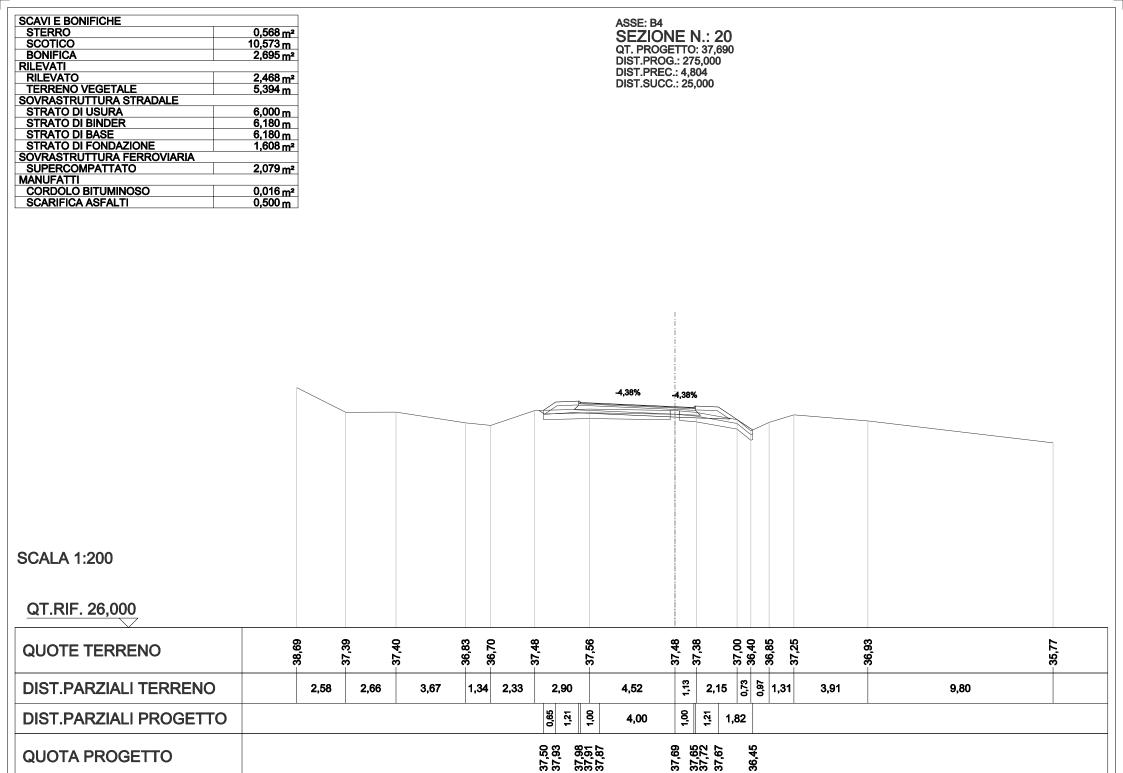
38,33 38,32 38,28







SCAVI E BONIFICHE STERRO SCOTICO BONIFICA RILEVATI RILEVATO TERRENO VEGETALE SOVRASTRUTTURA STRADALE STRATO DI USURA STRATO DI BINDER STRATO DI BINDER STRATO DI BASE STRATO DI FONDAZIONE SOVRASTRUTTURA FERROVIARIA SUPERCOMPATTATO MANUFATTI CORDOLO BITUMINOSO SCARIFICA ASFALTI	0,288 m² 10,621 m 2,947 m² 2,947 m² DIST.PROG.: 270,196 DIST.PREC.: 20,196 DIST.SUCC.: 4,804 6,000 m 6,180 m 1,608 m² 2,079 m² 0,015 m² 0,500 m
	4,54%
SCALA 1:200	
QT.RIF. 25,000	
QUOTE TERRENO	-38,16 -37,36 -36,90 -36,97 -36,97 -36,97 -36,97 -36,97 -36,71 -36,71
DIST.PARZIALI TERRENO	1,46 3,80 2,42 2,37 2,34 3,57 4,05 8 2,15 8 1,36 8 6,59 7,31
DIST.PARZIALI PROGETTO	원 전 원 4,00 원 전 1,79
QUOTA PROGETTO	37,47 -37,96 -37,71 -37,69 -36,50



SCAVI E BONIFICHE		ASSE: B4	
STERRO	2,524 m²	SEZIONE N.: 21	
SCOTICO	8,962 m	QT. PROGETTO: 37,612	
BONIFICA	0,586 m ²	DIST.PROG.: 37,012	
RILEVATI	0.500	DIST.PREC.: 25.000	
RILEVATO TERRENO VEGETALE	0,586 m² 3,459 m	DIST.SUCC.: 25,000	
SOVRASTRUTTURA STRADALE	3,459 M		
STRATO DI USURA	6,000 m		
STRATO DI BINDER	6,180 m		
STRATO DI BASE	6,180 m		
STRATO DI FONDAZIONE	1,608 m²		
SOVRASTRUTTURA FERROVIARIA	2.070 2		
SUPERCOMPATTATO MANUFATTI	2,079 m²		
CORDOLO BITUMINOSO	0,016 m²		
SCARIFICA ASFALTI	0,500 m		
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		i de la companya de	
		-3,53%	
			٦
SCALA 1:200			
QT.RIF. 26,000			

37,56 37,52 37,52 37,40 37,11 37,11 36,42

1,00

1,7

37,61 37,65 37,65 37,60 37,42 -37,36

5,96

1,92

36,55

2,28

4,92

36,23

-38,76 -38,77

38,98

3,79

QUOTE TERRENO

QUOTA PROGETTO

DIST.PARZIALI TERRENO

DIST.PARZIALI PROGETTO

37,42

3,39

2,36

36,91 36,80 -37,41

2,44 1,43

0,59

 5,51

