

DESIGN: KK DRAWN: NV REVIEWED: CH

CHECKED: CH APPROVED: EMR DATE: Nov. 18, 2016

HOPE BAY PROJECT

PROFESSIONAL ENGINEERS STAMP

FILE NAME: 1CT022_004_Madrid-Boston GA-1.dwg

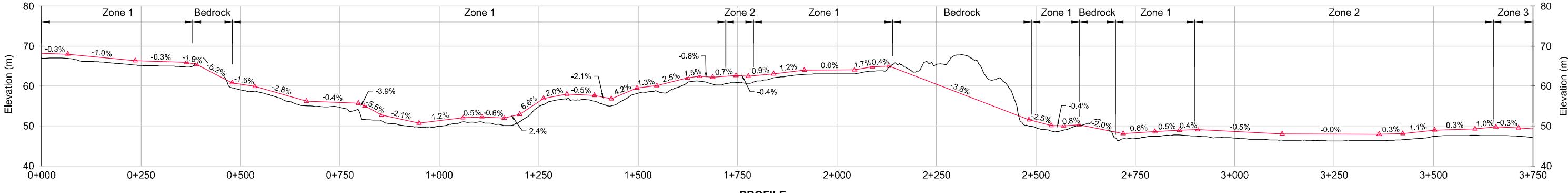
SRK CONSULTING

TMAC RESOURCES

Madrid-Boston All-Weather Road

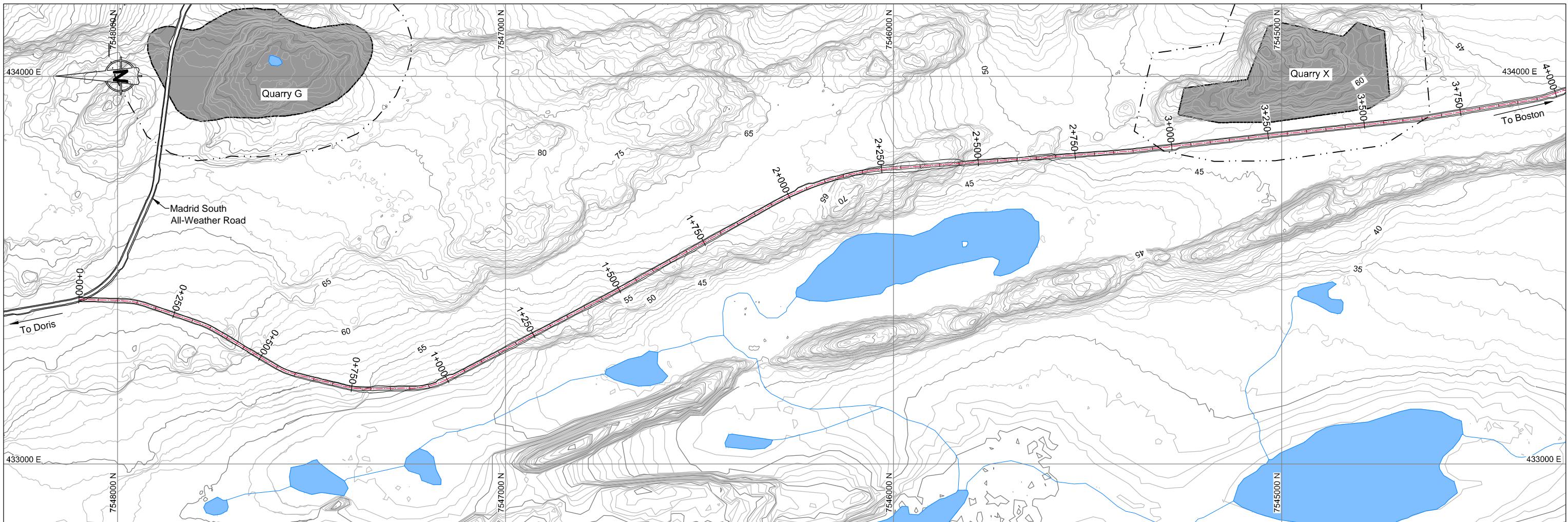
DRAWING TITLE: Madrid-Boston All-Weather Access Road General Arrangement

DRAWING NO.: MBR-02 SHEET 3 OF 37 REVISION NO. B



PROFILE LEGEND

▲ Point of Intersection
6.1% Grade

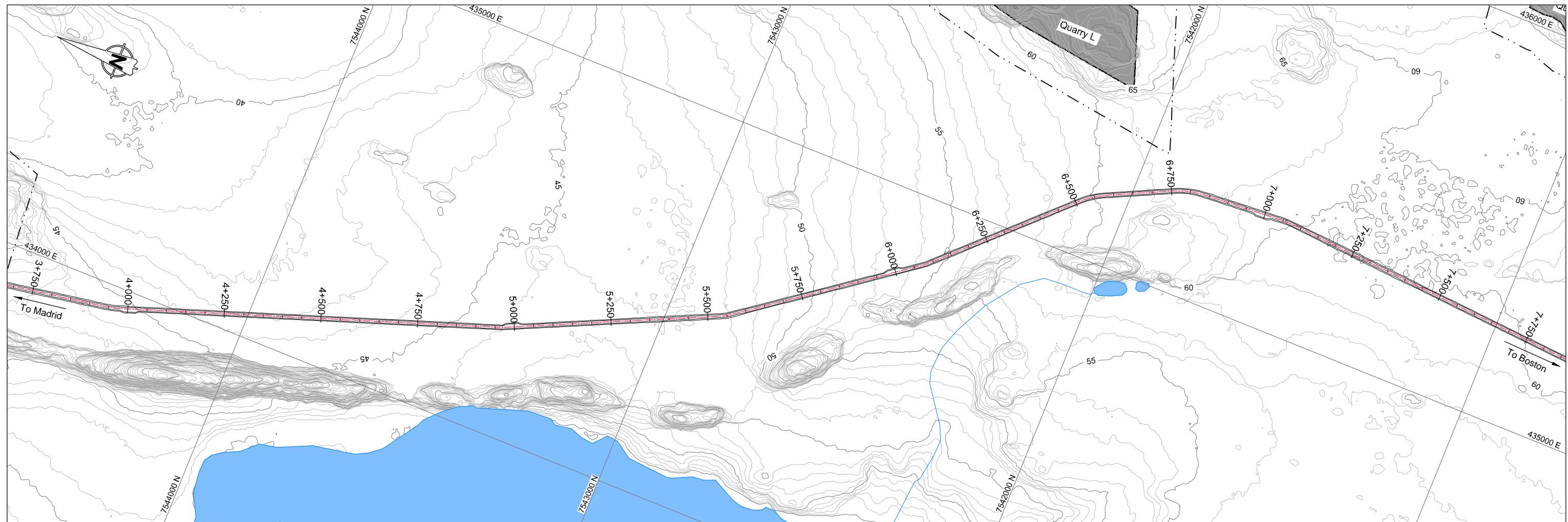
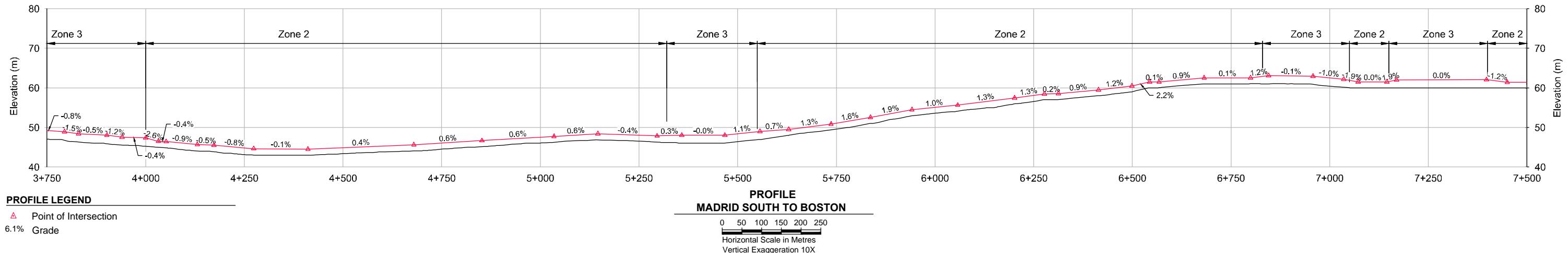


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Madrid-Boston All-Weather Road
DRAWING TITLE:
Road Alignment Plan and Profile
(1 of 15)

DRAWING NO.: MBR-03
SHEET 4 of 37
REVISION NO.: B



DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE	REFERENCE DRAWINGS	REVISIONS

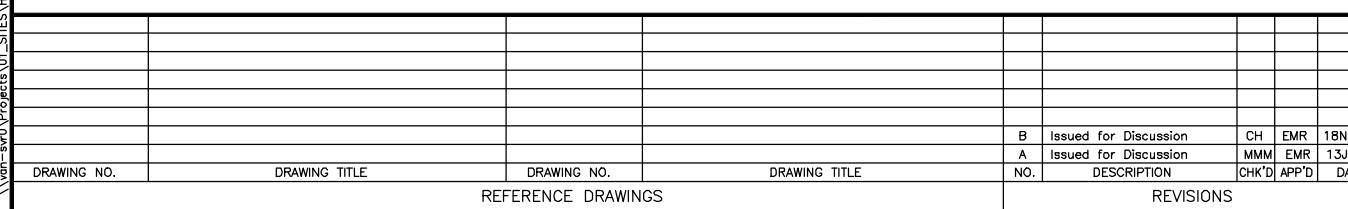
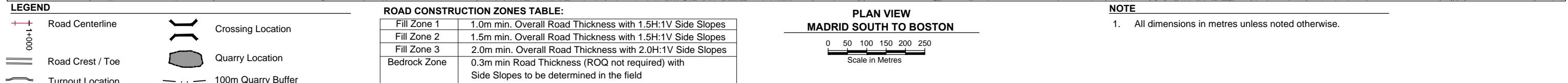
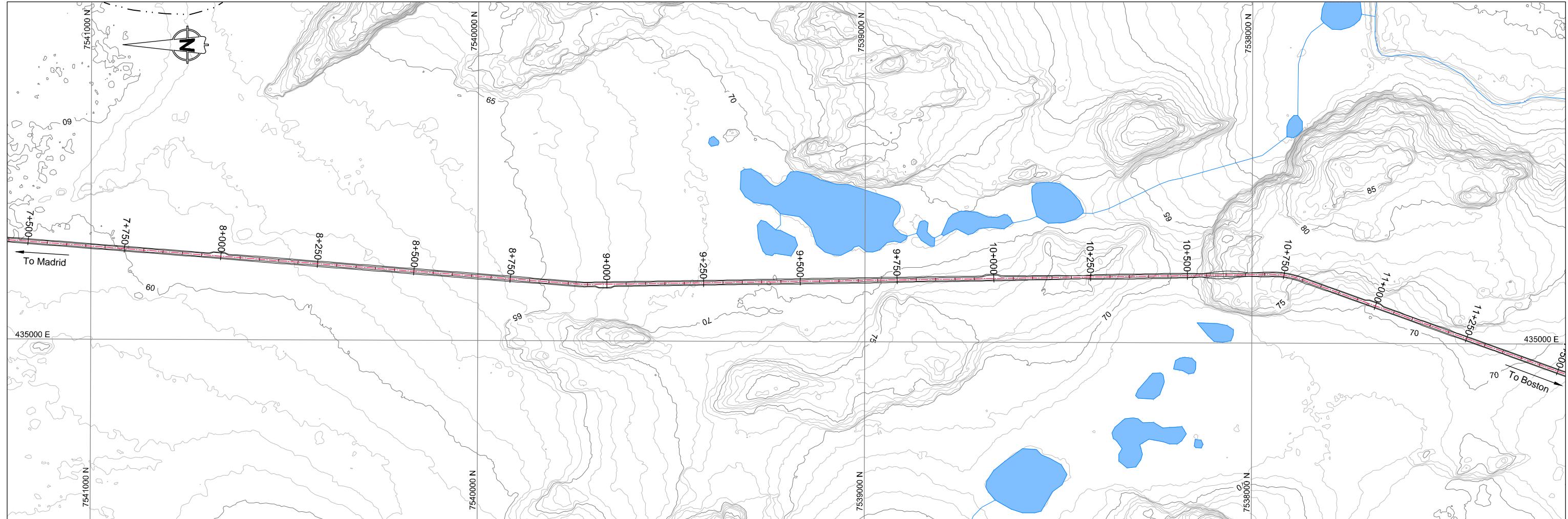
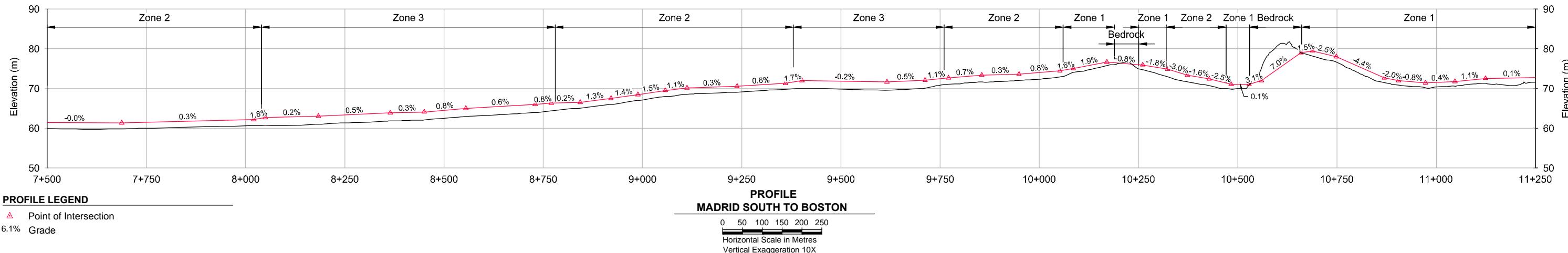
B	Issued for Discussion	CH	EMR	18Nov16
A	Issued for Discussion	MMM	EMR	13Jul16
PROFESSIONAL ENGINEER'S STAMP				
FILE NAME: 1CT022_004_Madrid-Boston AWR-2.dwg				

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HOPE BAY PROJECT

Madrid-Boston All-Weather Road
DRAWING TITLE:
Road Alignment
Plan and Profile
(2 of 15)
DRAWING NO.: MBR-04
SHEET 5 of 37
REVISION NO.: B

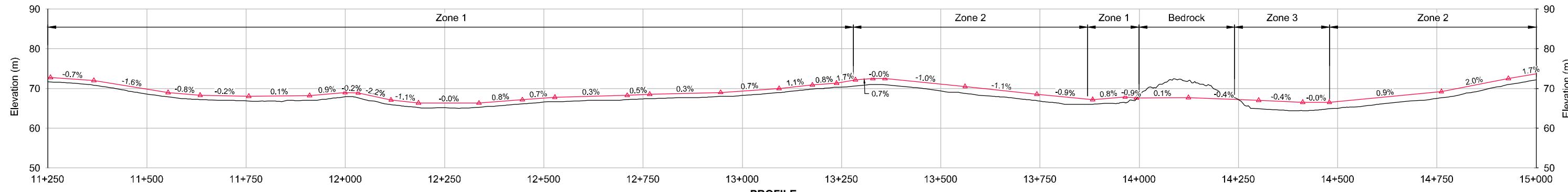


The image shows the SRK Consulting logo in the top right corner. The logo consists of a stylized orange 'V' shape followed by the text 'srk consulting' in a lowercase, sans-serif font. To the left of the logo is a large, empty rectangular box. Below the logo, there is a table with four rows of text: 'DESIGN: KK', 'DRAWN: NV', 'REVIEWED: CH', 'CHECKED: CH', 'APPROVED: EMR', and 'DATE: Nov. 18, 201'. At the bottom left, it says 'PROFESSIONAL ENGINEER'S STAMP' and at the bottom right, 'FILE NAME: 1CT022_004_Madrid-Boston AWR-2.dwg'.

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Madrid-Boston All-Weather Road
ING TITLE:
Road Alignment
Plan and Profile
(3 of 15)


PROFILE LEGEND

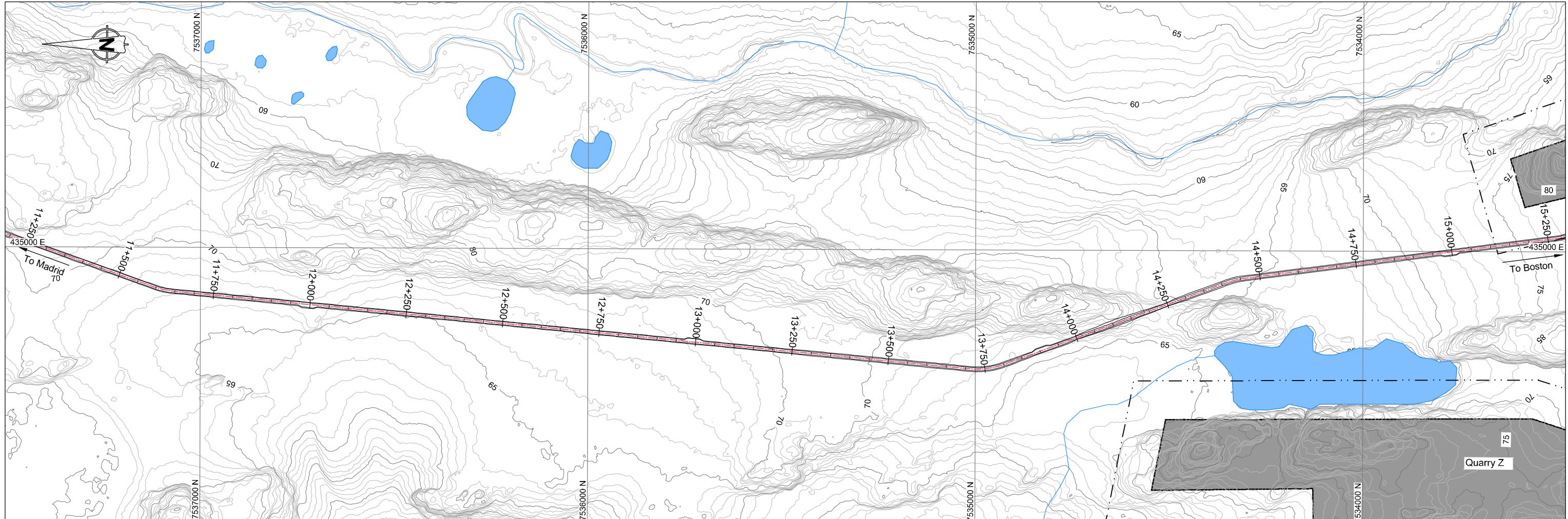
- ▲ Point of Intersection
- 6.1% Grade

**PROFILE
MADRID SOUTH TO BOSTON**

0 50 100 150 200 250

Horizontal Scale in Metres

Vertical Exaggeration 10X


LEGEND

- Road Centerline
- Crossing Location
- Road Crest / Toe
- Turnout Location
- Quarry Location
- 100m Quarry Buffer

ROAD CONSTRUCTION ZONES TABLE:

Fill Zone 1	1.0m min. Overall Road Thickness with 1.5H:1V Side Slopes
Fill Zone 2	1.5m min. Overall Road Thickness with 1.5H:1V Side Slopes
Fill Zone 3	2.0m min. Overall Road Thickness with 2.0H:1V Side Slopes
Bedrock Zone	0.3m min Road Thickness (ROQ not required) with Side Slopes to be determined in the field

**PLAN VIEW
MADRID SOUTH TO BOSTON**

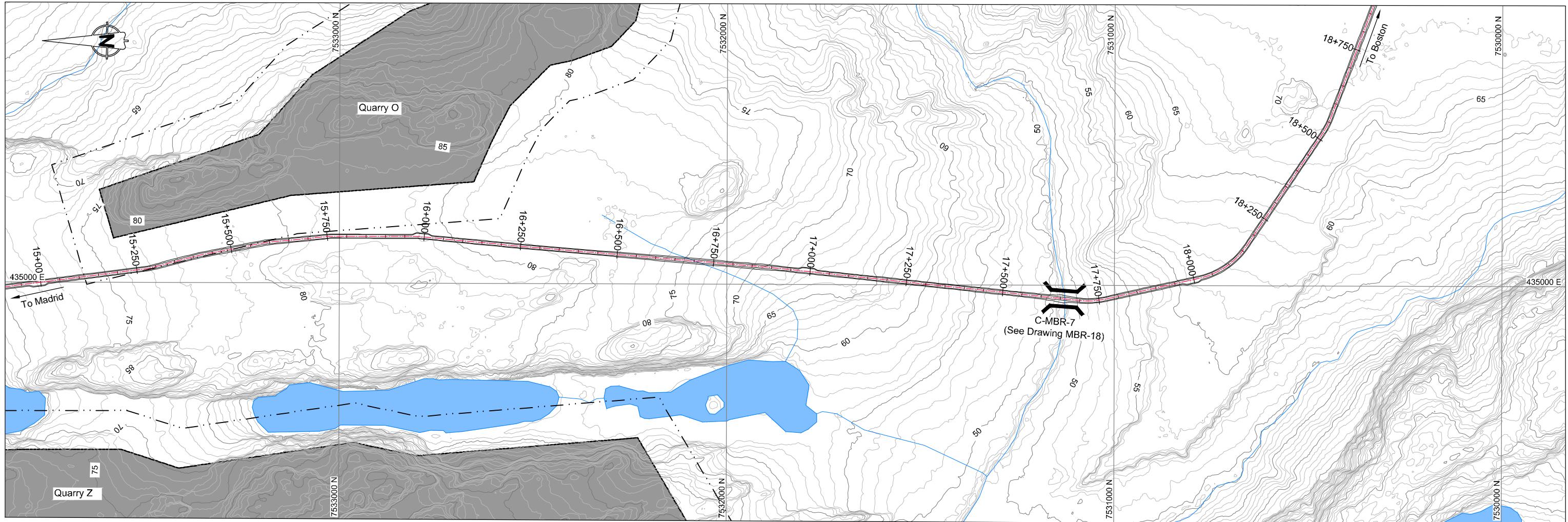
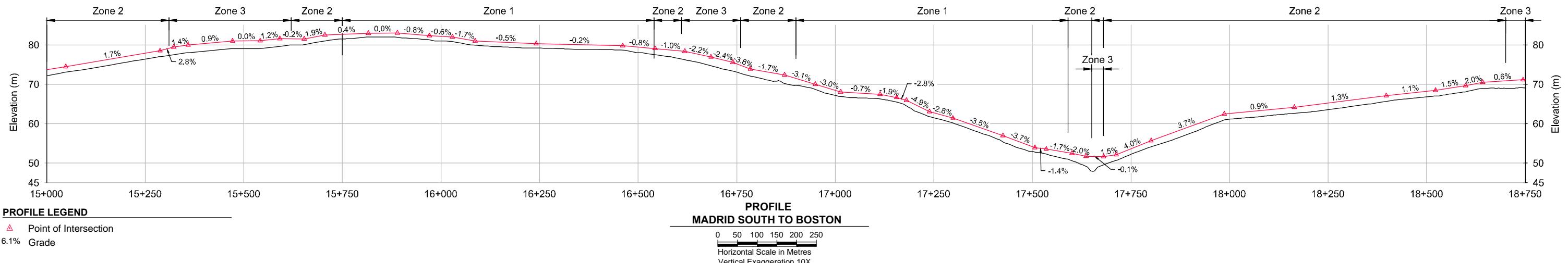
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Scale in Metres

NOTE

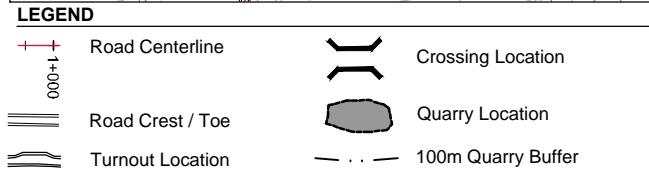
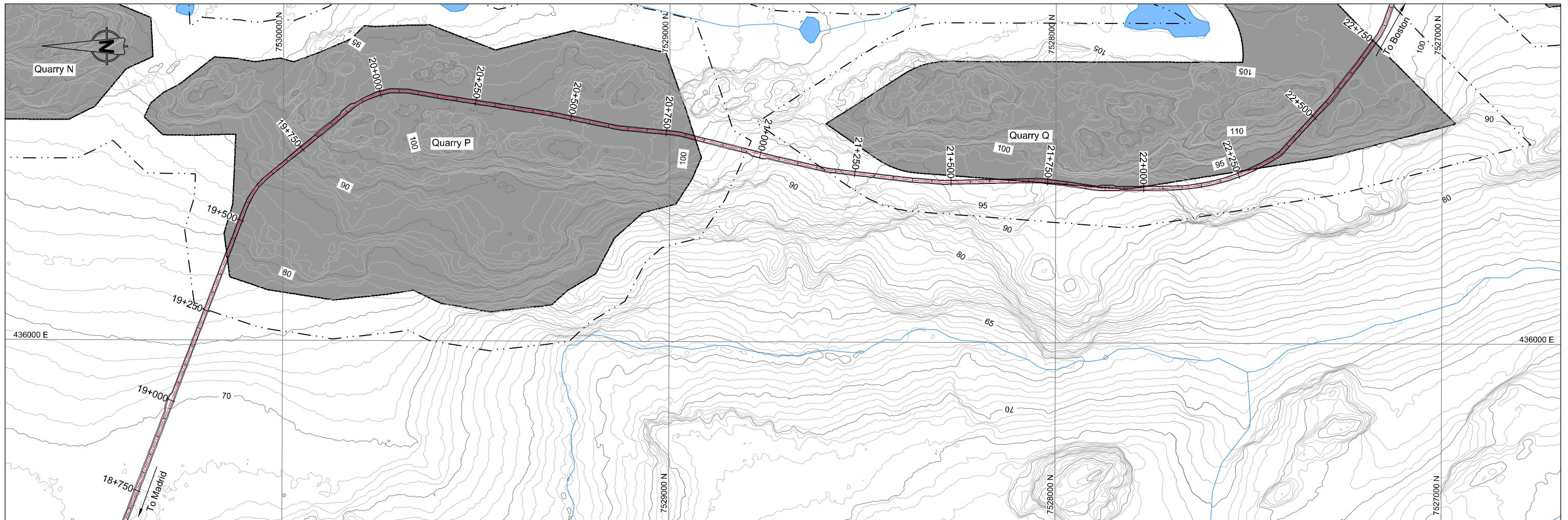
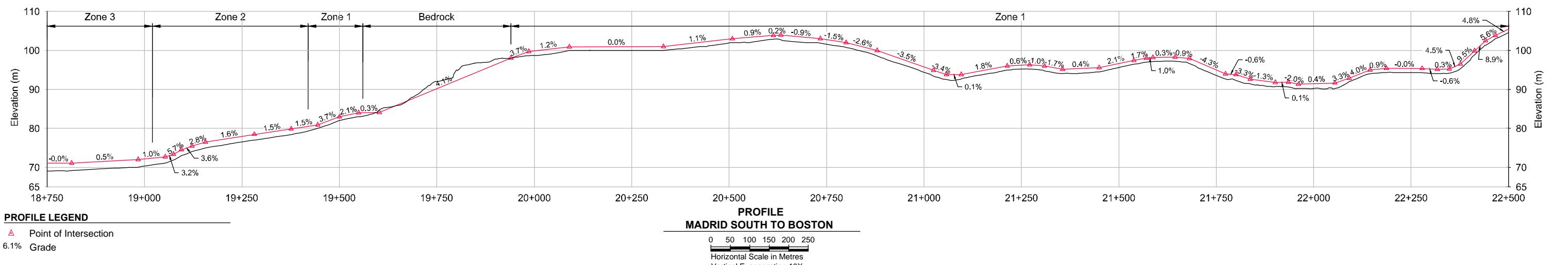
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Madrid-Boston All-Weather Road
DRAWING TITLE:
Road Alignment Plan and Profile (4 of 15)
DRAWING NO. MBR-06 **SHEET** 7 of 37 **REVISION NO.** B



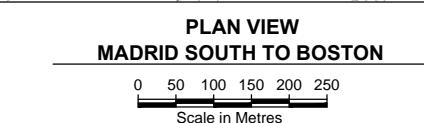
DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE	REVISIONS

B	Issued for Discussion	CH	EMR	18Nov16
A	Issued for Discussion	MMM	EMR	13Jul16
NO.	DESCRIPTION	CHK'D	APP'D	DATE
PROFESSIONAL ENGINEER'S STAMP				
FILE NAME: 1CT022_004_Madrid-Boston AWR-2.dwg				



ROAD CONSTRUCTION ZONES TABLE:

Fill Zone 1	1.0m min. Overall Road Thickness with 1.5H:1V Side Slopes
Fill Zone 2	1.5m min. Overall Road Thickness with 1.5H:1V Side Slopes
Fill Zone 3	2.0m min. Overall Road Thickness with 2.0H:1V Side Slopes
Bedrock Zone	0.3m min Road Thickness (ROQ not required) with Side Slopes to be determined in the field



NOTE

- All dimensions in metres unless noted otherwise.

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Madrid-Boston All-Weather Road

DRAWING TITLE:
Road Alignment
Plan and Profile
(6 of 15)

DRAWING NO.: MBR-08
SHEET 9 of 37
REVISION NO.: B

REFERENCE DRAWINGS

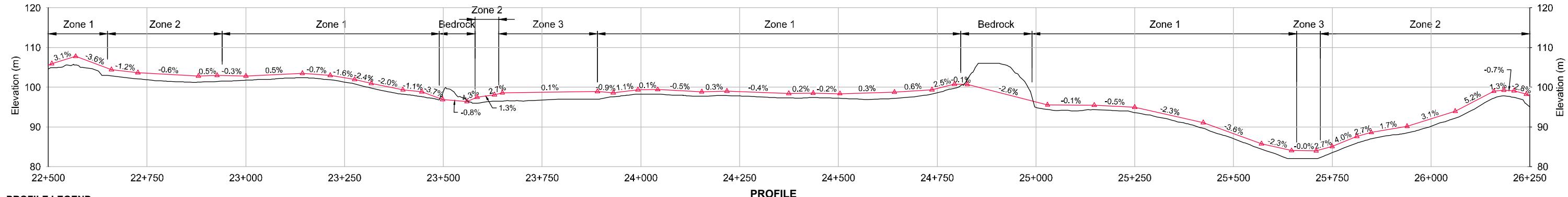
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REVISIONS

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NO.	DESCRIPTION	CHK'D	APP'D	DATE

PROFESSIONAL ENGINEER'S STAMP

FILE NAME: 1CT022_004_Madrid-Boston AWR-2.dwg
SRK JOB NO.: 1CT022.004



DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE	REFERENCE DRAWINGS

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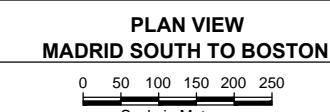
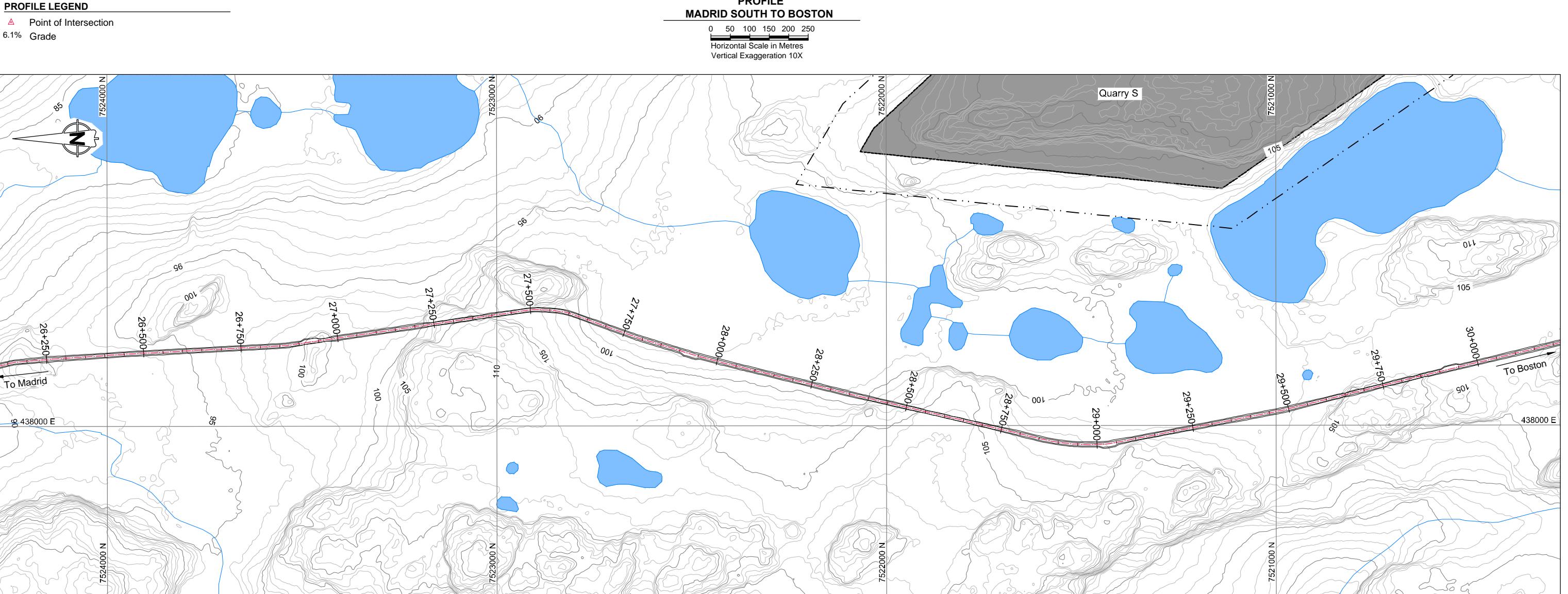
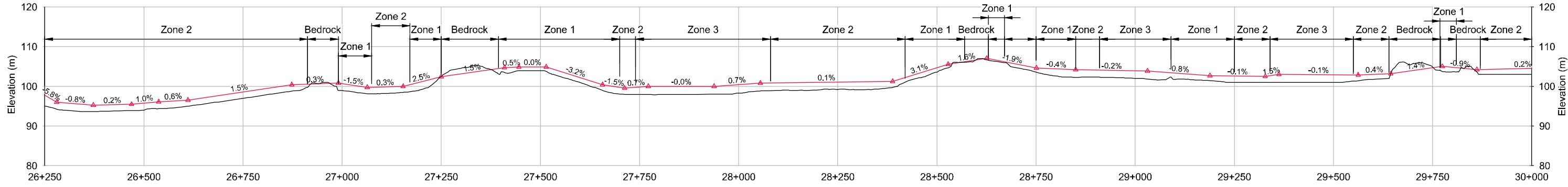
 

HOPE BAY PROJECT

Madrid-Boston All-Weather Road

DRAWING TITLE: Road Alignment Plan and Profile (7 of 15)

DRAWING NO. MBR-09 SHEET 10 of 37 REVISION NO. B



NOTE

1. All dimensions in metres unless noted otherwise.

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS					

B Issued for Discussion CH EMR 18Nov16
A Issued for Discussion MMM EMR 13Jul16
NO. DESCRIPTION CHK'D APP'D DATE

PROFESSIONAL ENGINEER'S STAMP

FILE NAME: 1CT022_004_Madrid-Boston AWR-2.dwg

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HOPE BAY PROJECT

Madrid-Boston All-Weather Road
DRAFTING TITLE:
Road Alignment
Plan and Profile
(8 of 15)
DRAWING NO.: MBR-10
SHEET 11 of 37
REVISION NO.: B