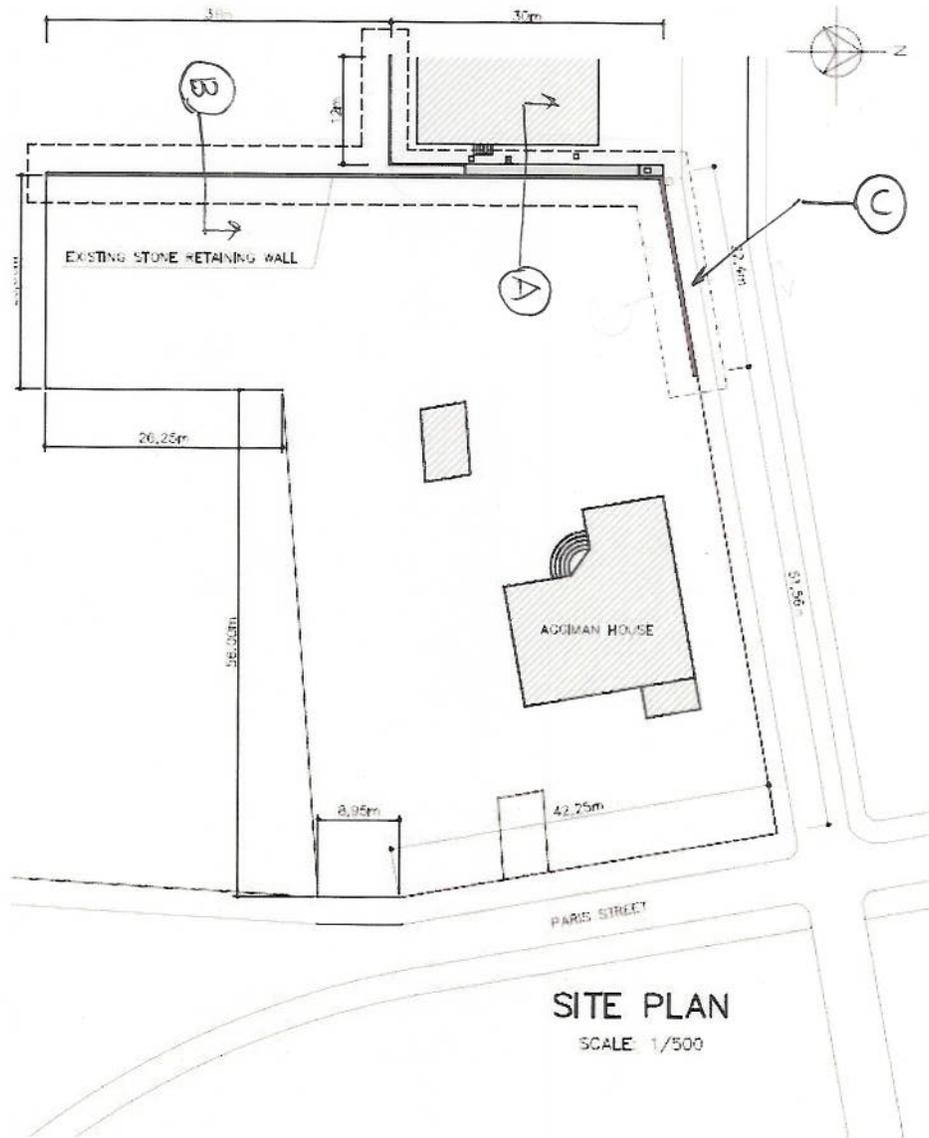


1.0 GENERAL

The purpose of this report is to evaluate the existing retaining walls of the DCR Facility and to recommend rehabilitation measures. Rehabilitation will include the reinforcing and replacement of the existing retaining walls

Existing retaining walls are masonry stone gravity type walls located at the West and North-West boundaries of the DCR Facility.

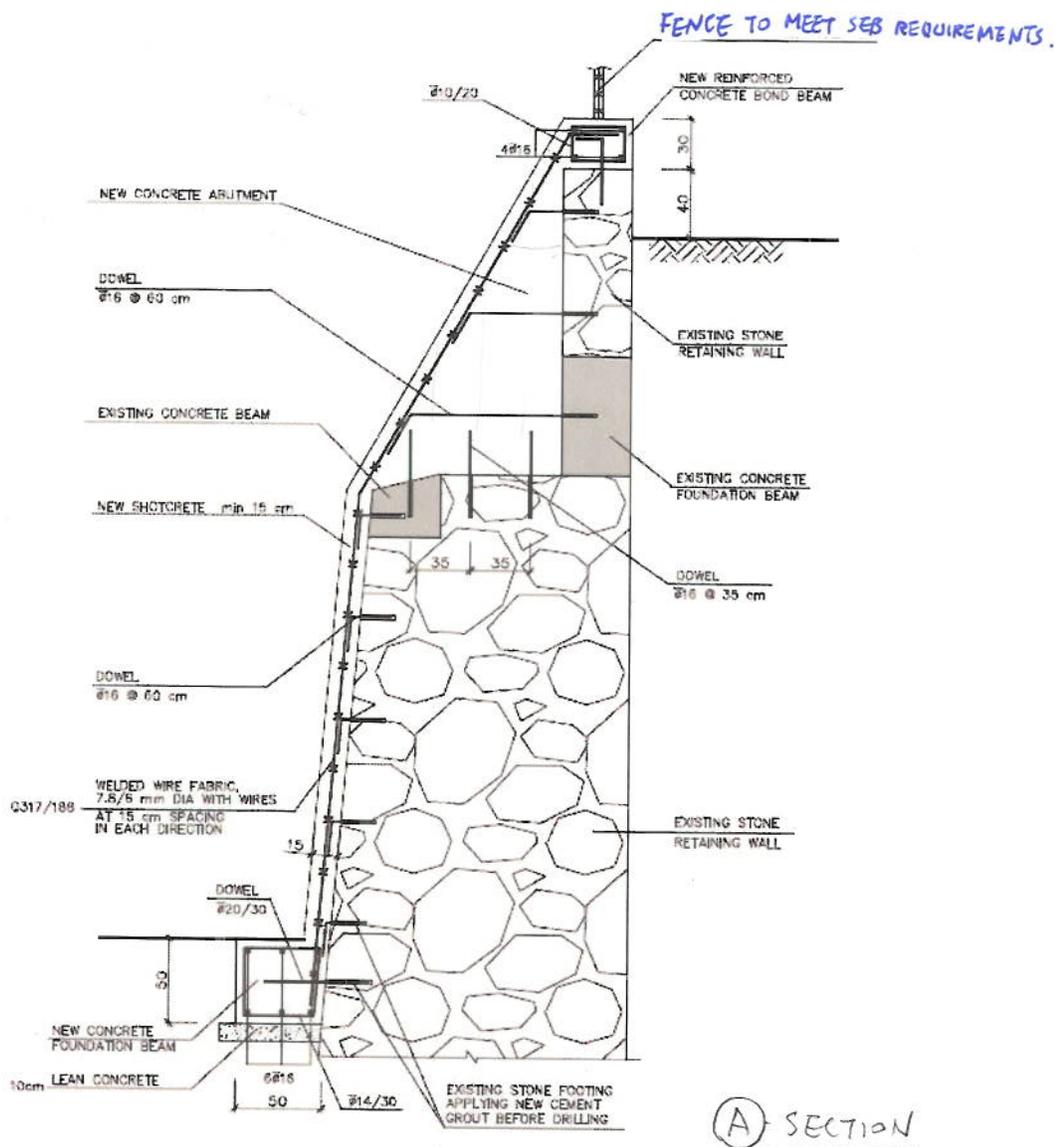


2.2 North Section of West Retaining Wall

Surface rehabilitation is recommended for the lower part,

- The surface damages, loose mortar and deteriorated stone particles will be removed.
- A 50x50 cm foundation beam will be constructed and minimum 15 cm thick shotcrete with wire mesh reinforcement and dowels will be applied to the exterior face.

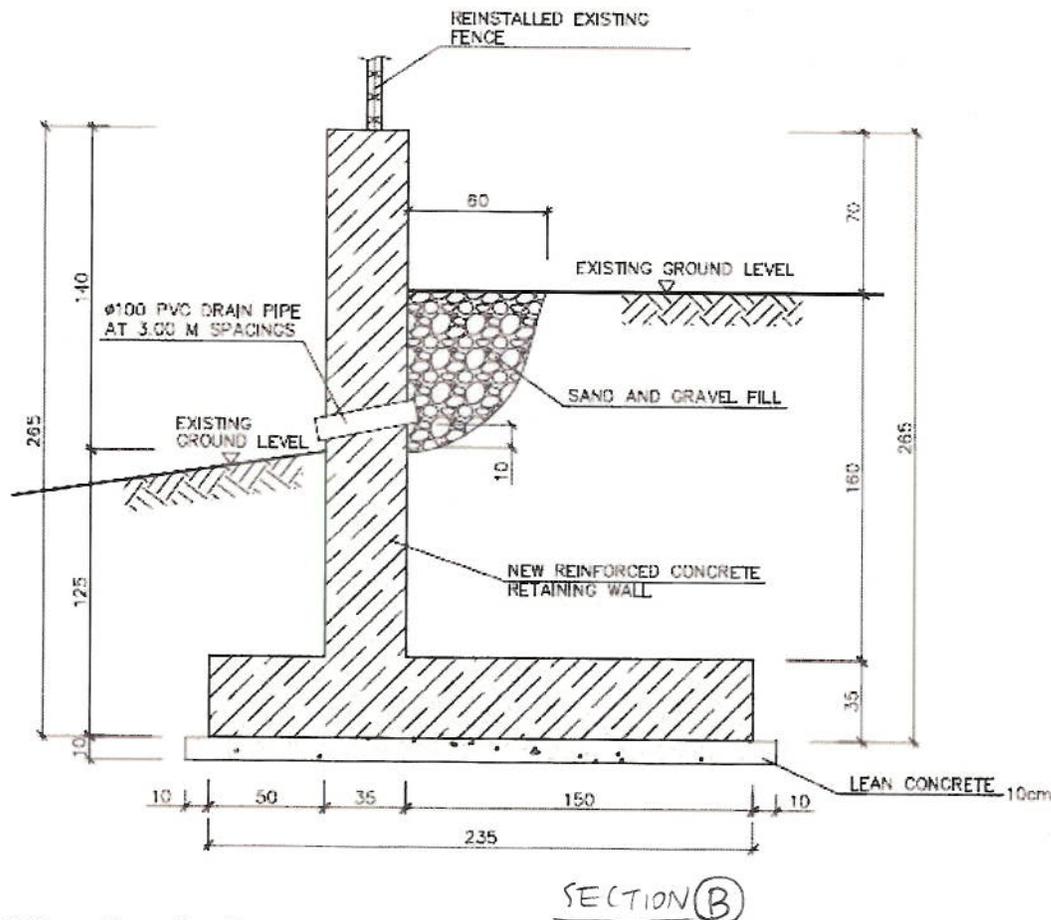
The upper part will be strengthened by adding a concrete abutment wall on the top of the lower part as detailed below.



2.3 South Section of West Retaining Wall

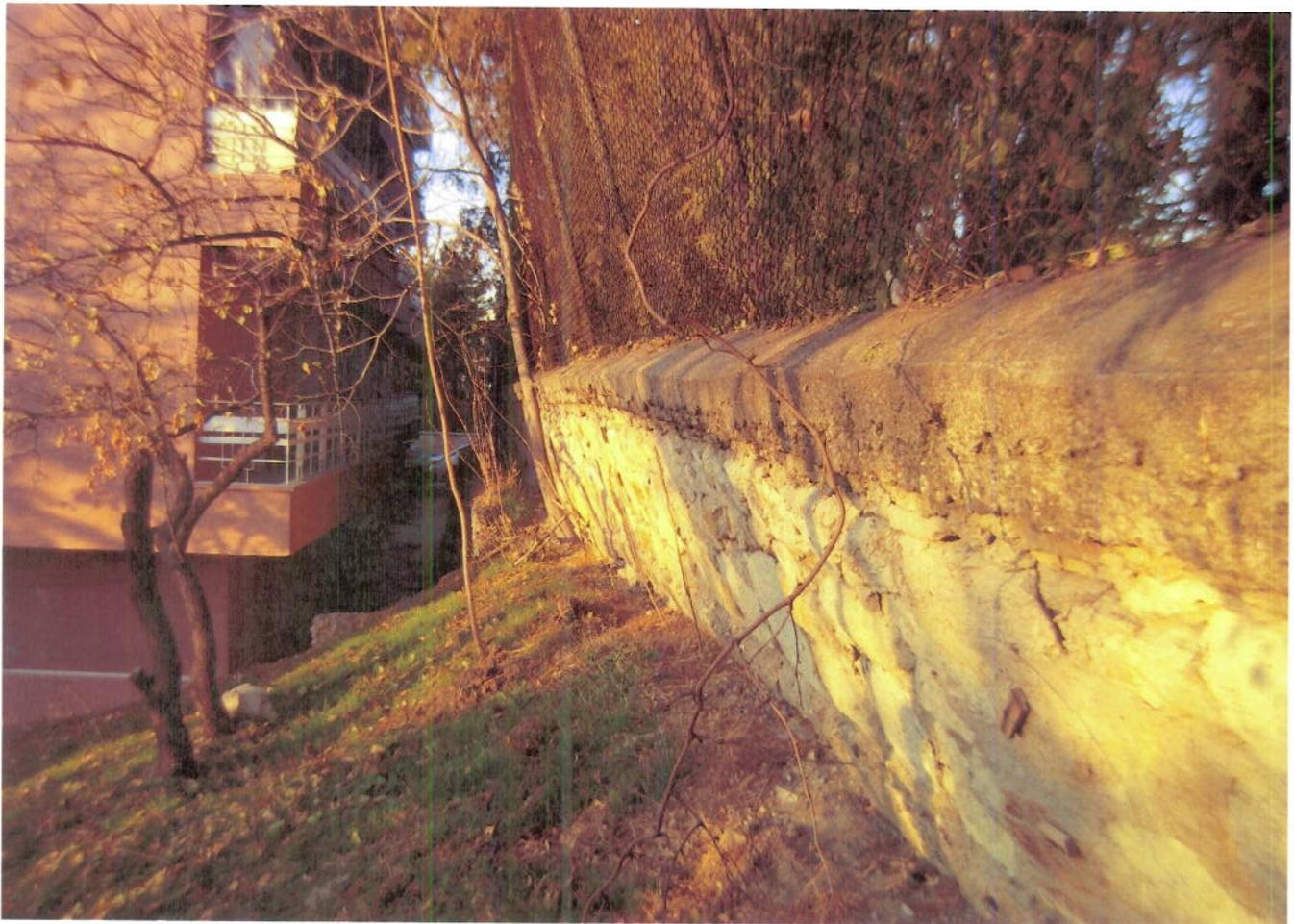
This section has considerable damages and deformations and the replacement of existing retaining wall is recommended.

Existing stone wall at this section will be removed and a new reinforced concrete retaining wall will be constructed. The detail design for the new reinforced concrete retaining wall is given in Appendix A. The section of new retaining wall is shown below.

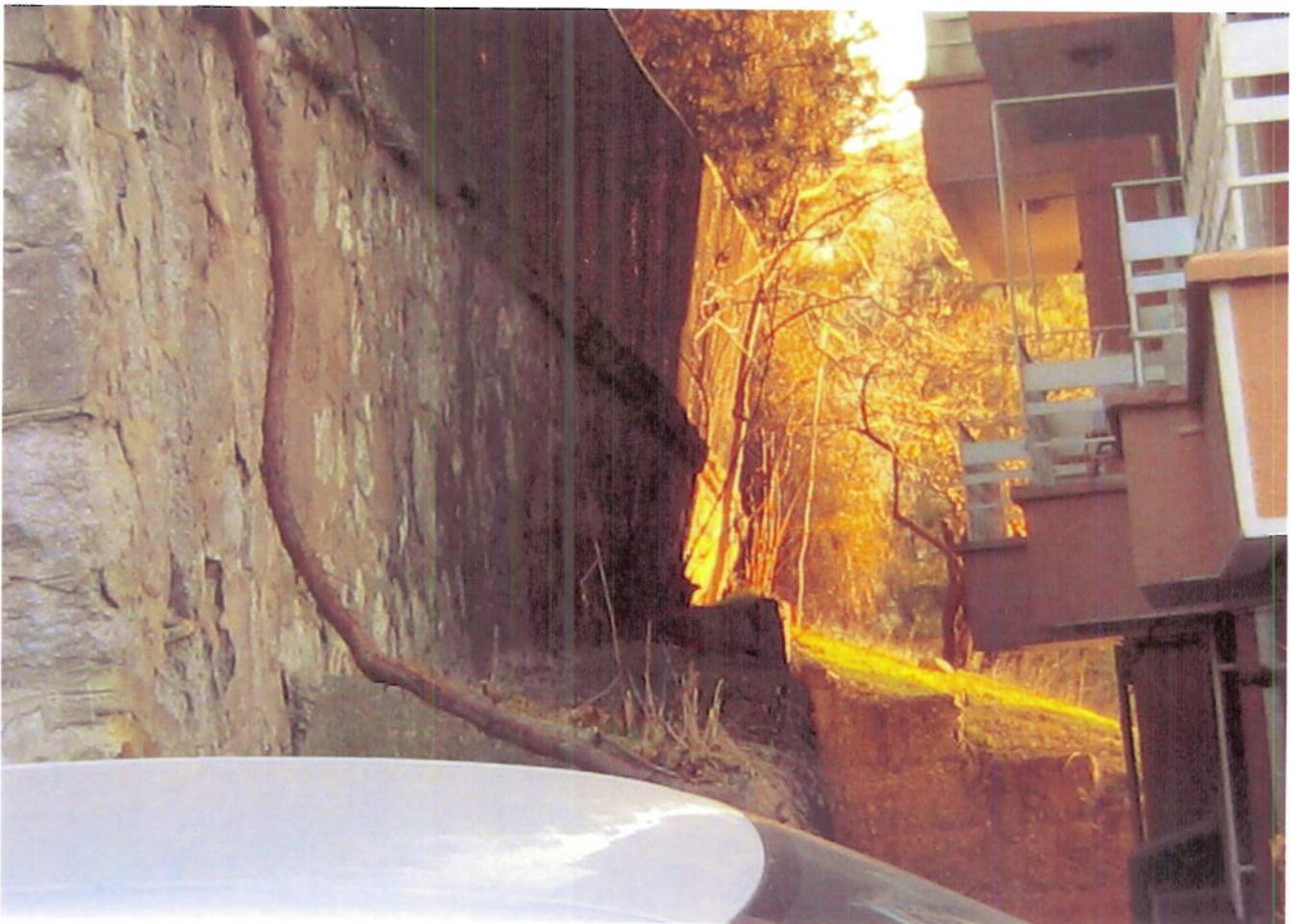


2.4 Coordination

Since the recommended rehabilitation measures involve construction on either private (neighbors) or public (municipal) property, as well as relocation of one utility panel (EGO), it is of almost importance that the work be coordinated with the landlords of the private properties and the municipality, and their written consent be obtained to avoid any future legal problems.



(B)

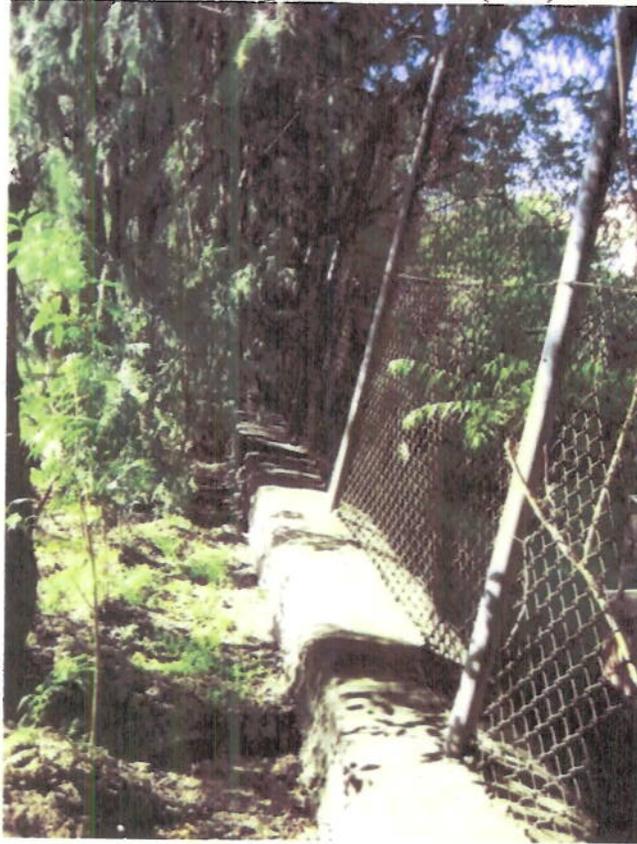


(A)

UNCLASSIFIED

(B)

Photo 6 – Tilted Existing Perimeter Wall (west) at DCMR



(B)

Photo 7 – Tilted Existing Perimeter Wall (west) at DCMR



(B)

UNCLASSIFIED

2.00 to 4.00 m height North Retaining Wall is in a good condition; only small surface damages were observed.



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General View of North Retaining Wall



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Surface Damages at North Retaining Wall