

electronic submittal



Technical Memorandum

DATE:	February 20, 2020	PROJECT: 10
TO:	Mr. Jason Smith, Teichert Aggregates (JSmith@teichert.com)	
FROM:	Till Angermann, Principal Hydrogeologist Mohamed Nasser, Project Engineer	
SUBJECT:	ALTERNATE MINING PIT CONFIGURATION SHIFLER PROPERTY, WOODLAND, YOLO COUNTY	

Luhdorff & Scalmanini Consulting Engineers (LSCE) previously evaluated potential effects of planned future mining and reclamation activities at Teichert's Shifler property on groundwater levels and flow (LSCE 2016, 2019, 2020). The evaluations assumed that Moore Canal, which traverses the Shifler property, would be mined out.

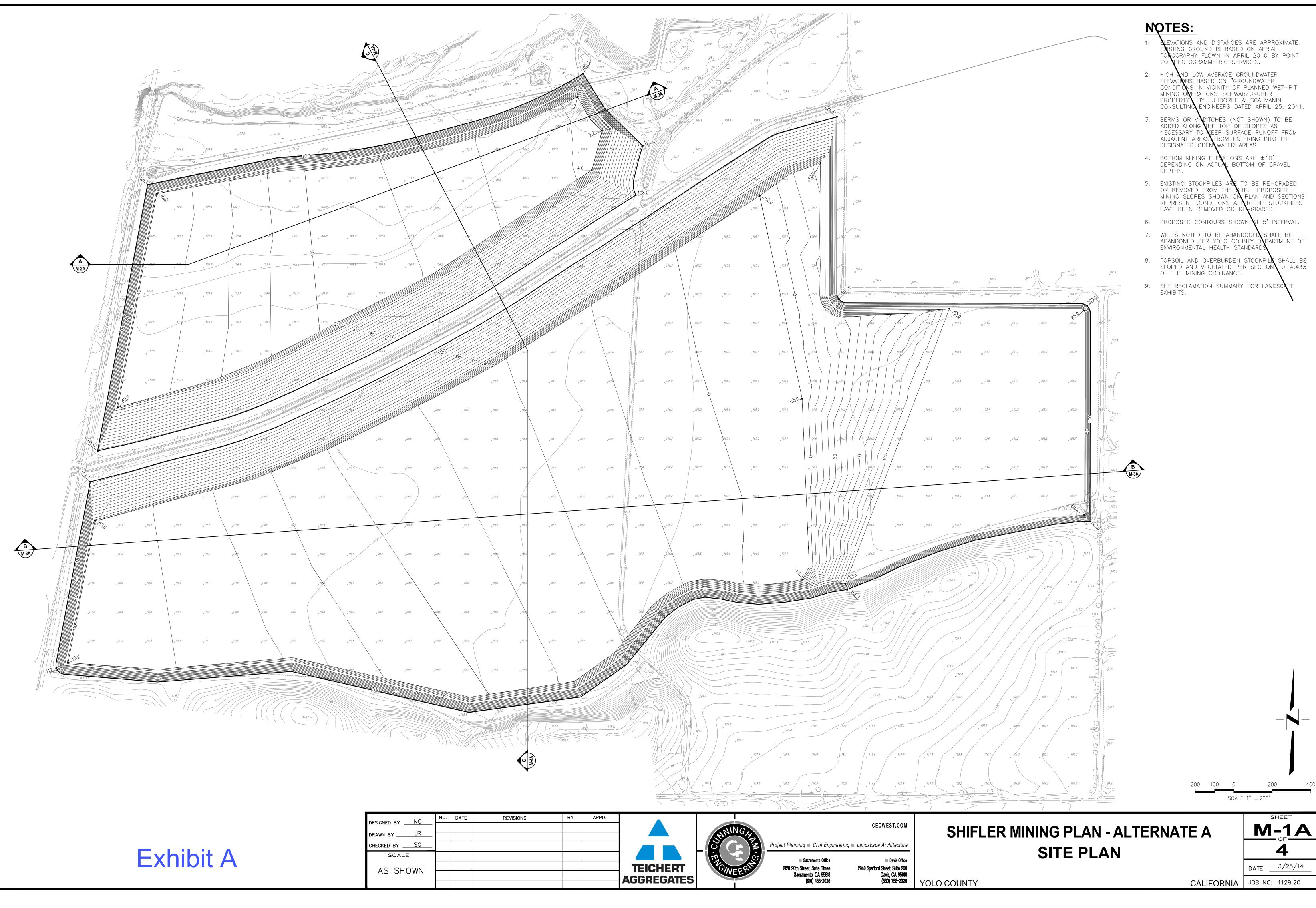
A proposed project alternative leaves the existing Moore canal in place while creating smaller mining pits around it (Exhibits A and B). This alternative mining pit configuration does not affect any of the conclusions set forth in the previous reports.

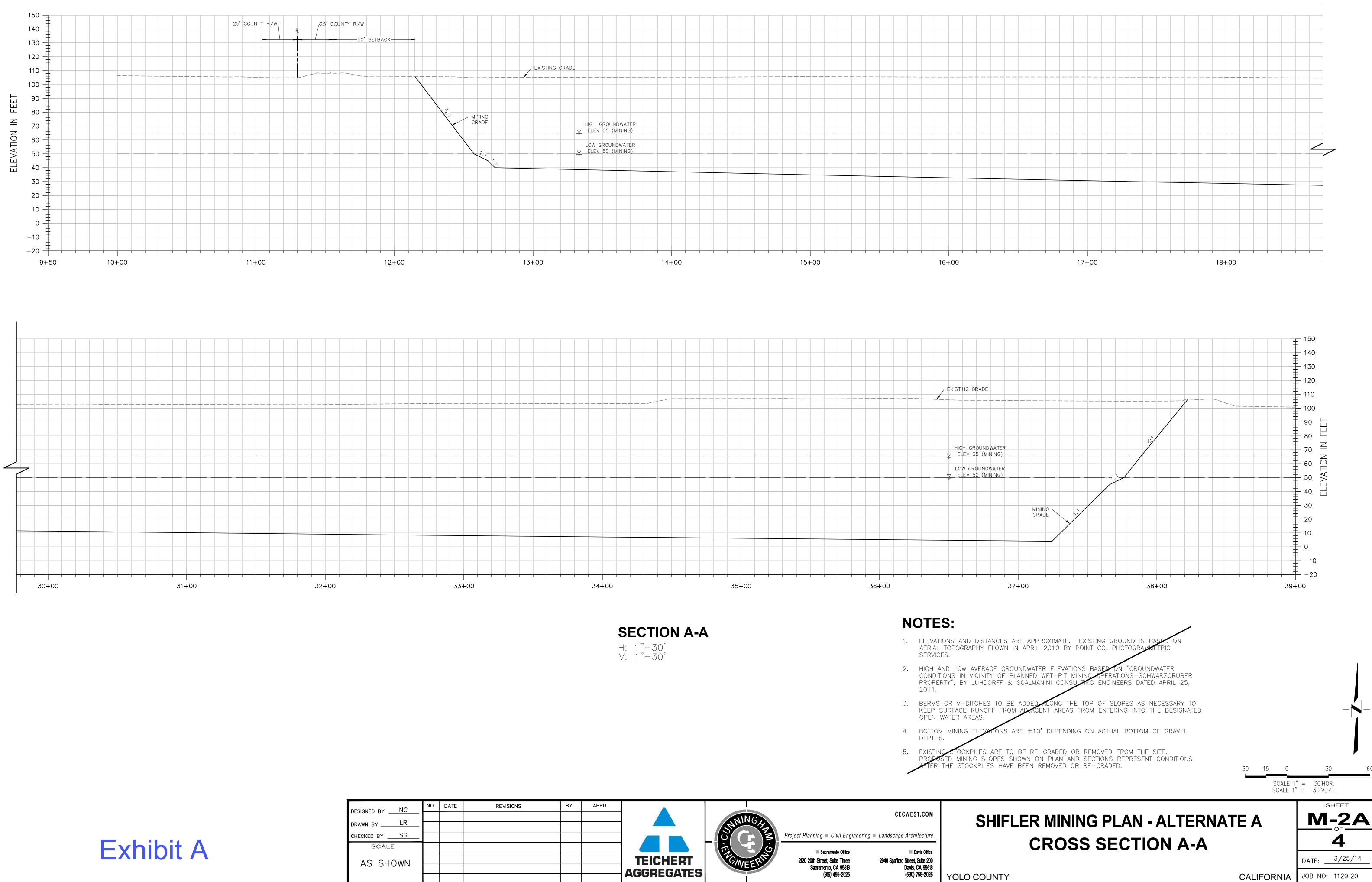
References

- Luhdorff and Scalmanini Consulting Engineers. 2016. Groundwater conditions in the vicinity of planned wet pit mining operations, Shifler property. Report. February 8, 2016. LSCE file 10-1-074.
- Luhdorff and Scalmanini Consulting Engineers. 2019. Groundwater conditions in the vicinity of planned wet pit mining operations, Shifler property, Woodland. Technical Memorandum. December 9, 2019. LSCE file 10-1-074.
- Luhdorff and Scalmanini Consulting Engineers. 2020. Supplemental Analysis of Groundwater Conditions, Planned Mining and Reclamation Activities, Shifler Property, Woodland, Yolo County. Technical Memorandum. February 5, 2020. LSCE file 10-1-074.

Exhibits

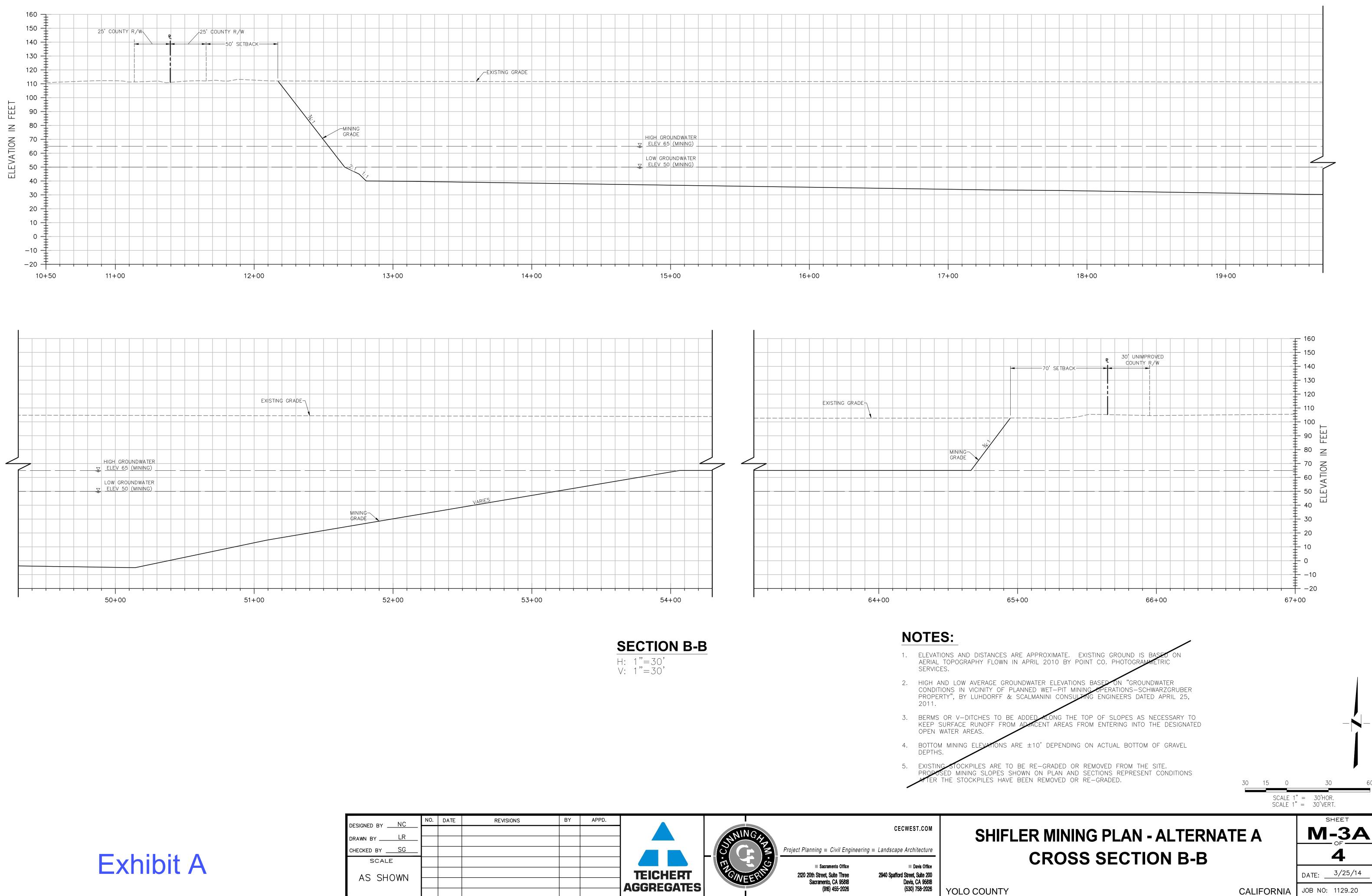
Exhibit A	Shifler Mining Plan – Alternate A (Site Plan and Cross Sections)
Exhibit B	Shifler Reclamation Plan – Alternate A (Site Plan and Cross Sections)

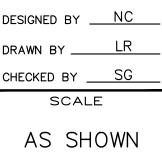






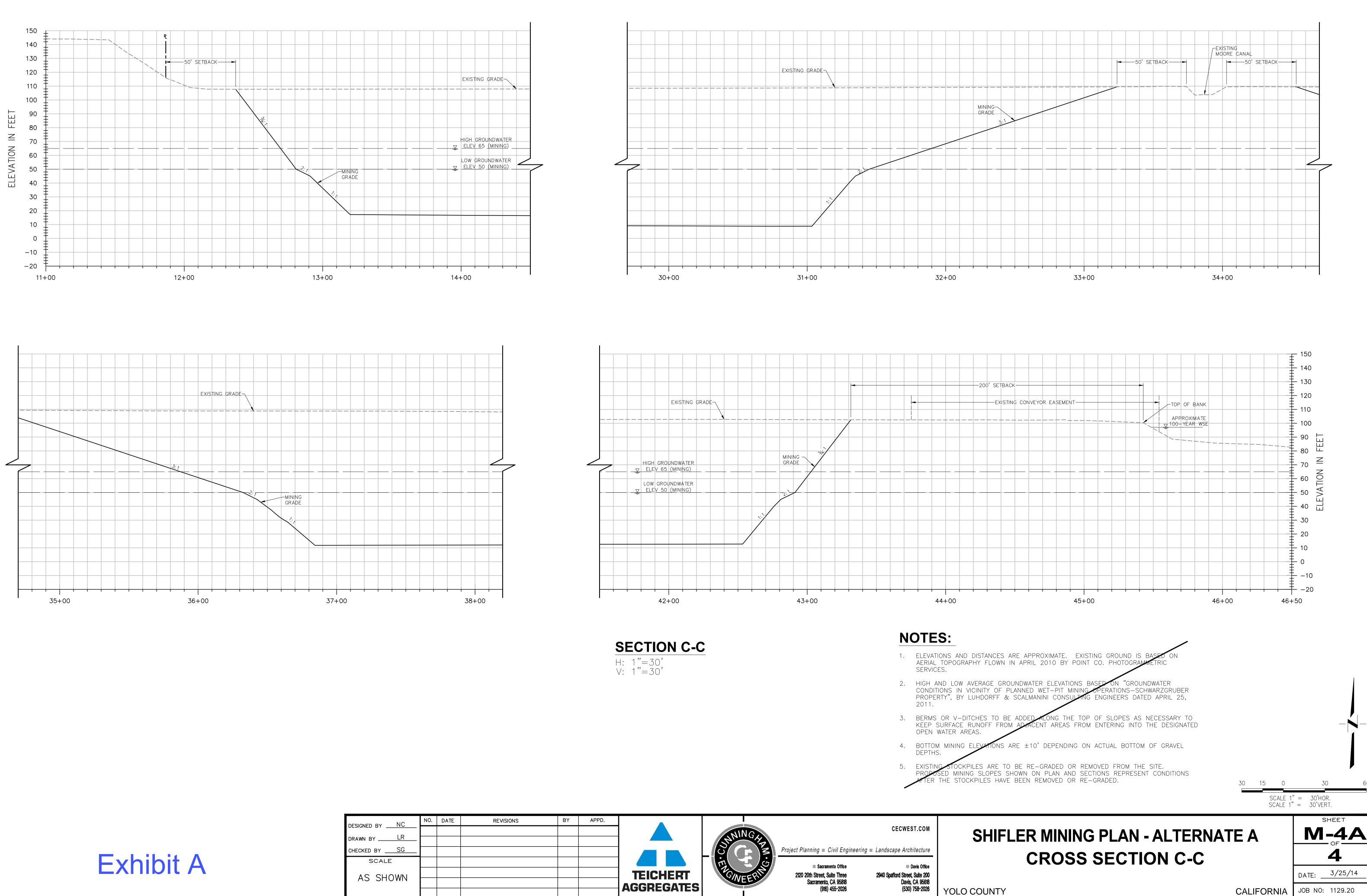
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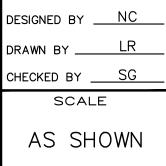




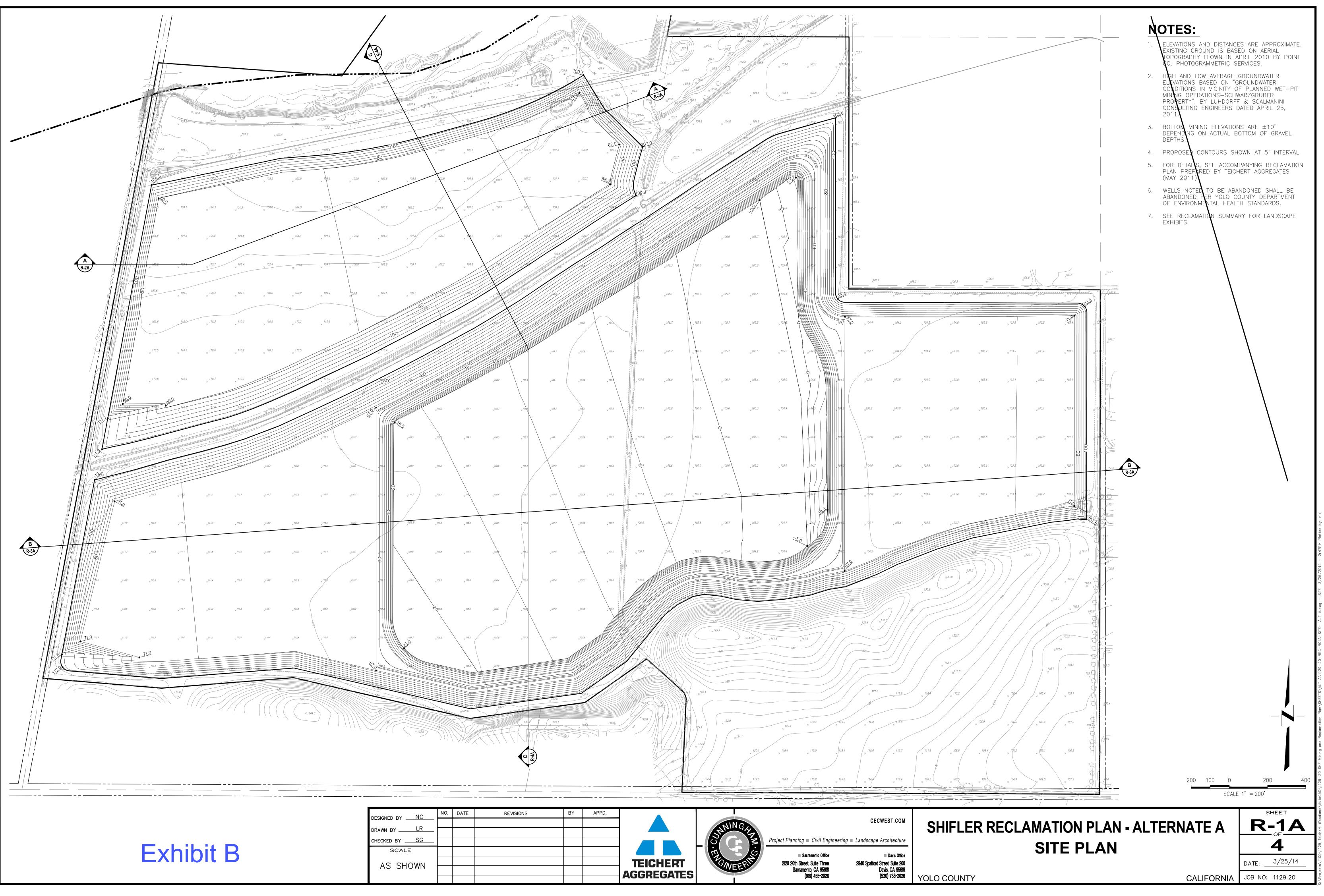


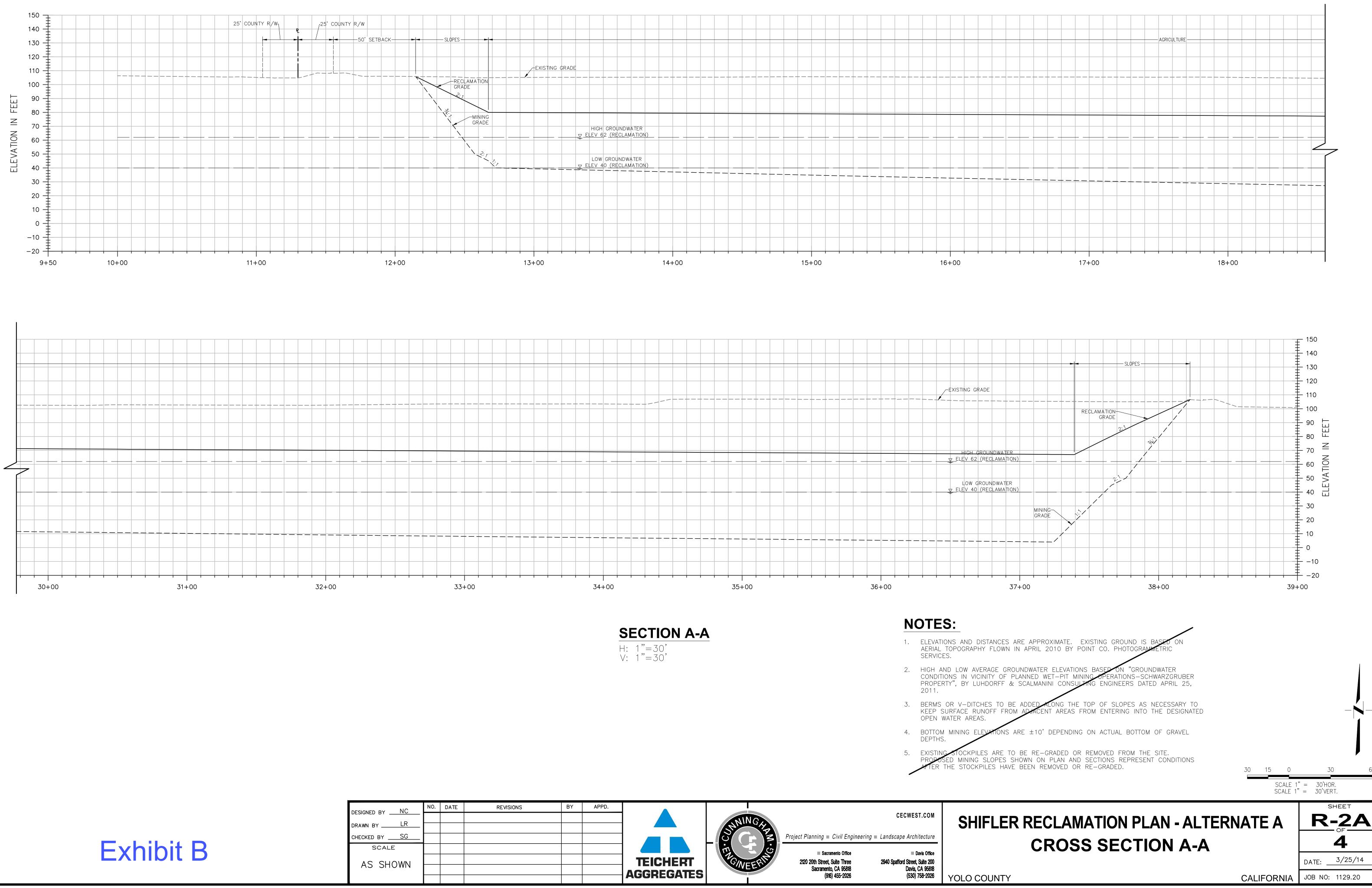
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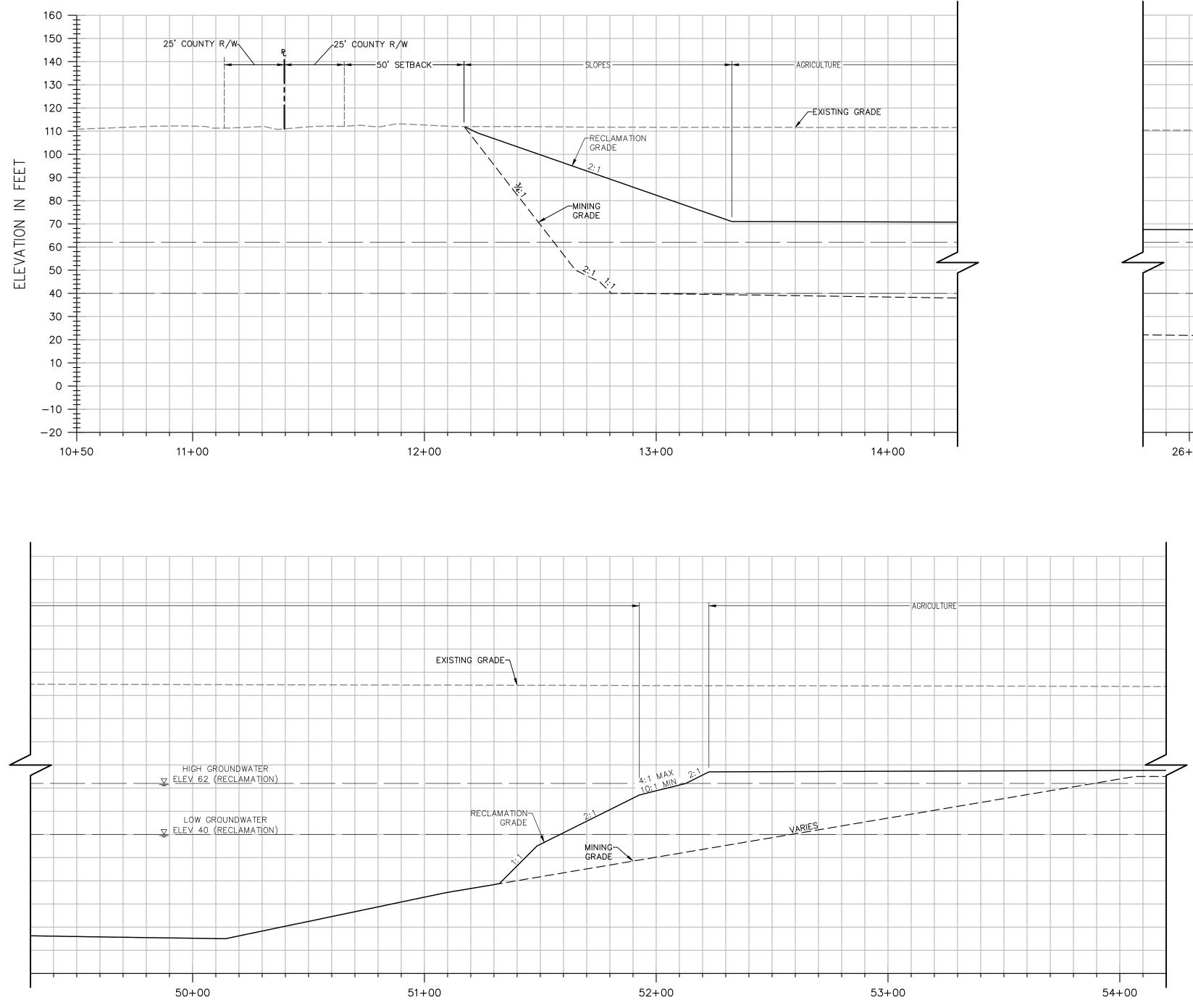






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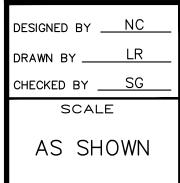
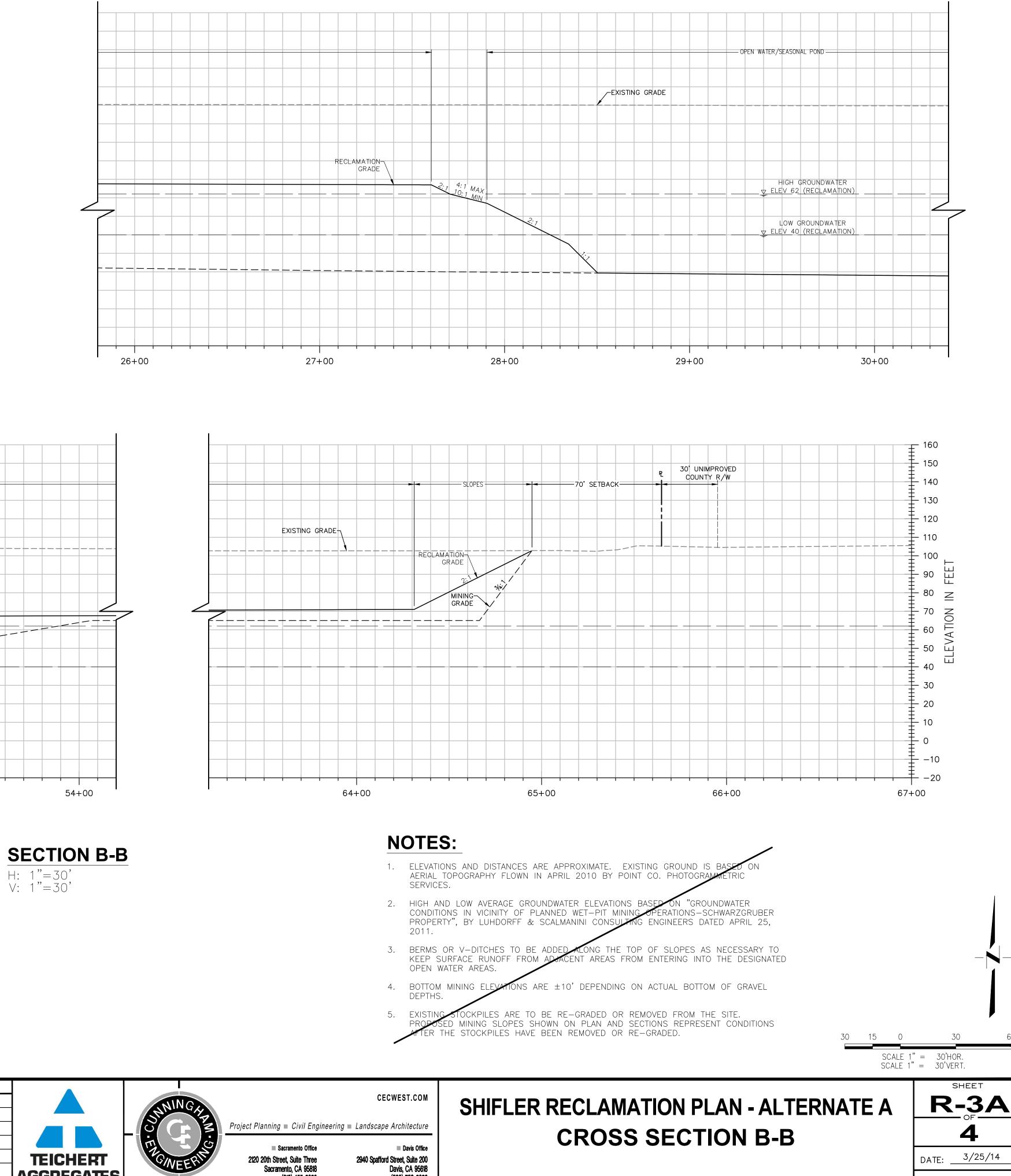
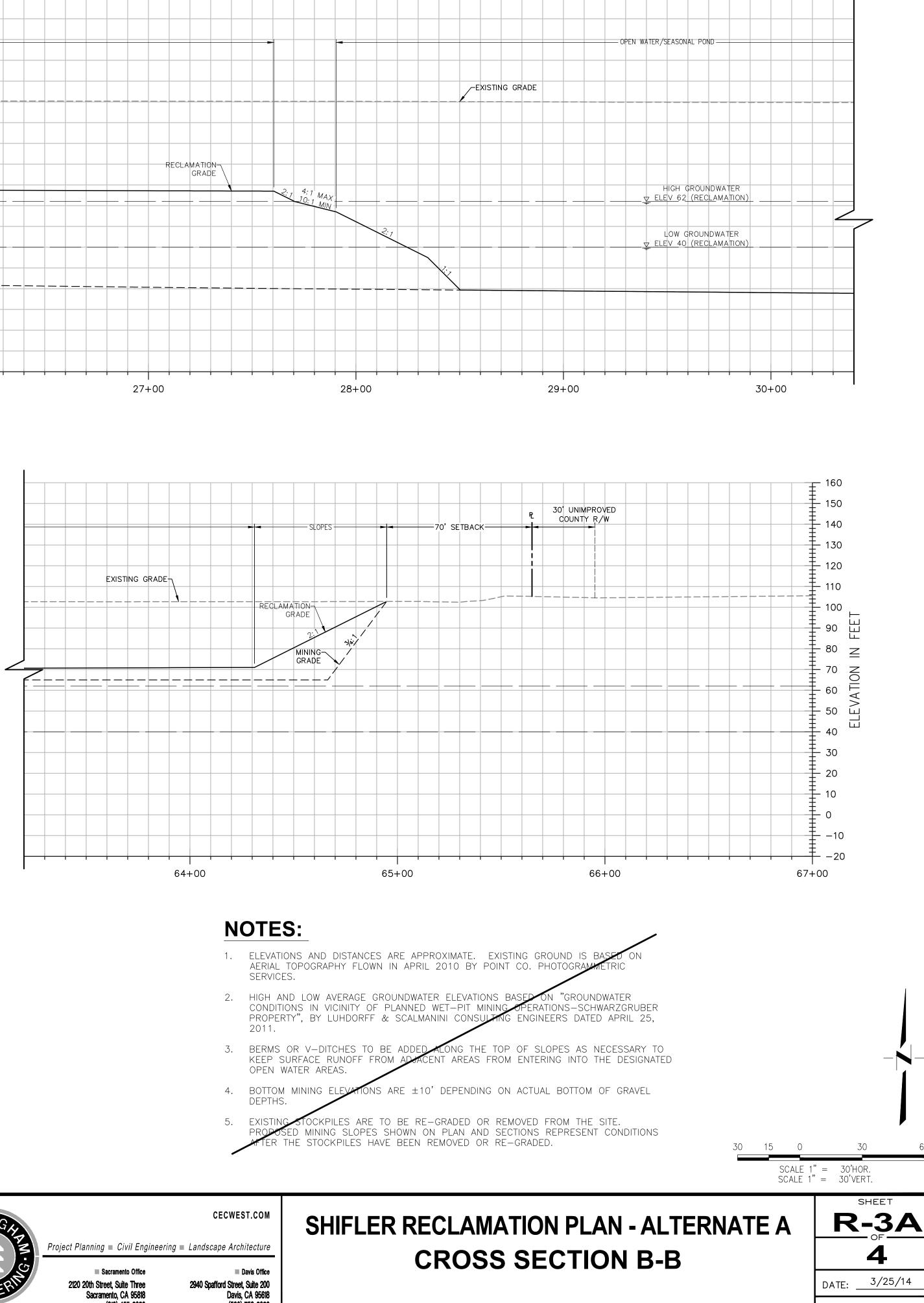


Exhibit B

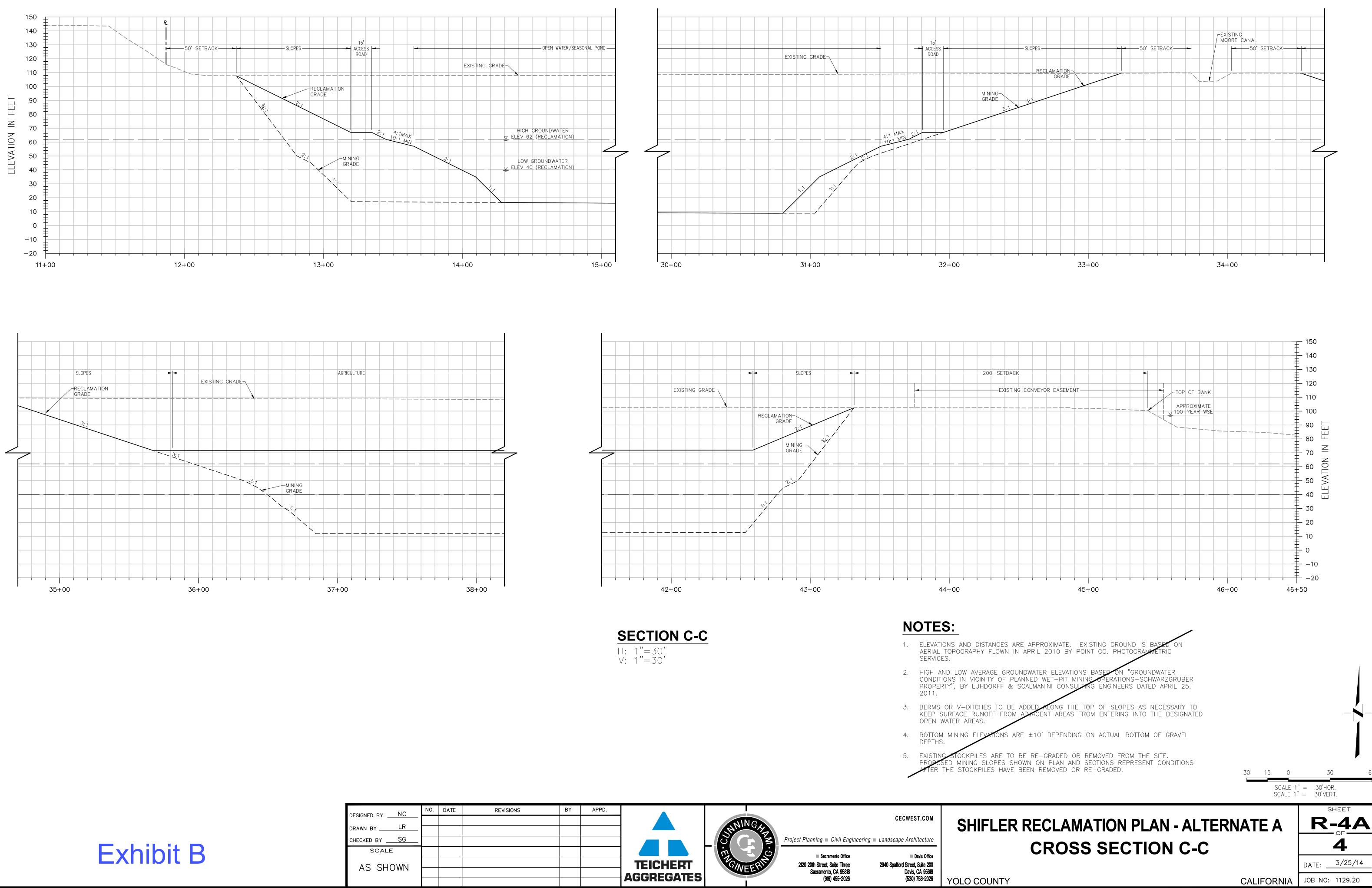




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