## **DESIGN NOTES**

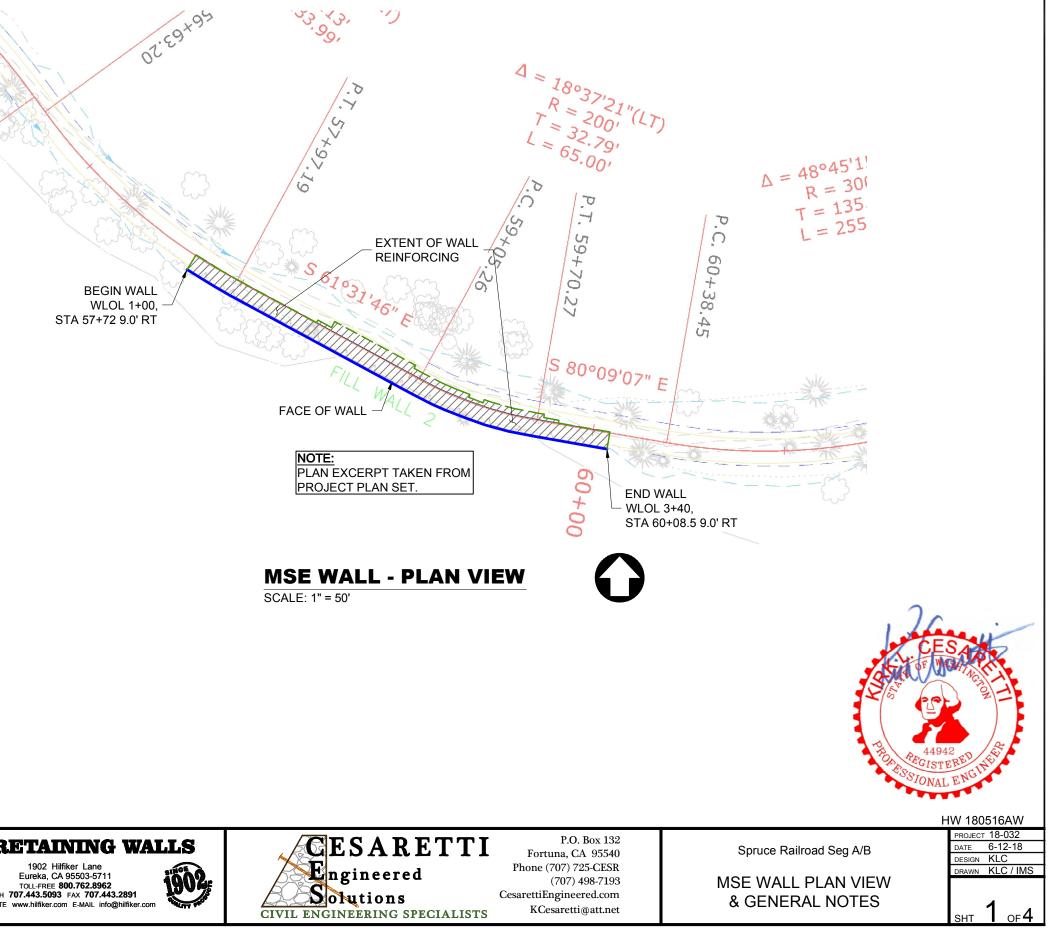
- 1. Design is based on the assumption that backfill within the reinforced soil mass, methods of construction and quality of materials conform to the requirements of FP'14 and the amending Special Contract Requirements.
- 2. Assumed Soil Characteristics:

Wall Backfill: Unit Weight: 120 pcf Internal Friction Angle: 34° Cohesion = 0 psf Retained Backfill: Unit Weight: 120 pcf Internal Friction Angle: 34° Cohesion = 0 psf Foundation Soils: Unit Weight: 120 pcf Friction Angle for Sliding: 34° Cohesion = 0 psf

## Worst Case Factored Bearing Pressure by MSE Wall- @ 18' Height - 4211 psf.

If actual characteristics, grades or dimensions of soil materials differ from those listed above or shown on the plans, Hilfiker Retaining walls shall be notified to evaluate the need to redesign.

- 3. If during construction, the wall location, structure location or loads are different than that proposed in this plan set and calculation package, HRW shall be notified to evaluate the need for a redesign.
- 4. The design requires a non-saturated backfill. Surface and sub-surface drainage control may be required to prevent saturation of the backfill or relieve hydrostatic pressures.
- 5. Design Procedure: Mechanically Stabilized Earth walls and Reinforced Soil Slopes, FHWA report No. FHWA-NHI-00-043.
- 6. Hilfiker Retaining Walls shall be responsible only for the internal stability of the retaining wall.

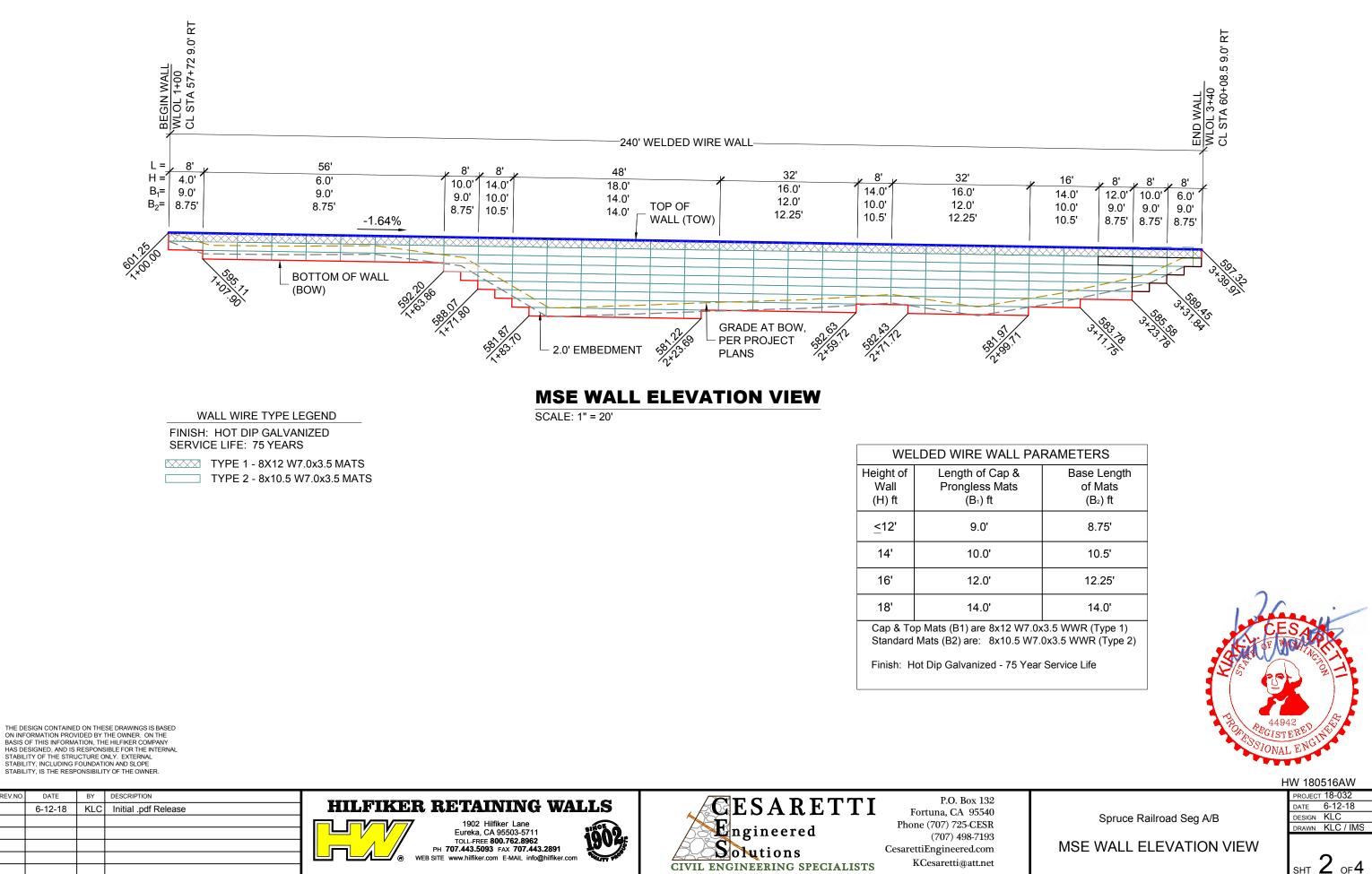


## **SUPPLIED QUANTITIES:**

2,944 FT<sup>2</sup> MSE WALL AREA:

THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED ON INFORMATION PROVIDED BY THE OWNER. ON THE BASIS OF THIS INFORMATION, THE HILFIKER COMPANY HAS DESIGNED, AND IS RESPONSIBLE FOR THE INTERNAL STABILITY OF THE STRUCTURE ONLY. EXTERNAL STABILITY, INCLUDING FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER.

REV.NO.	DATE	BY	DESCRIPTION			P.O. Box 132
	6-12-18	KLC	Initial .pdf Release	HILFIKER RETAINING WALLS		Fortuna, CA 95540
				1902 Hilfiker Lane		Phone (707) 725-CESR
				1902 Hilfiker Lane Eureka, CA 95503-5711 TOLL-FREE 800.762.8962	ngineered	(707) 498-7193
					Solutions	CesarettiEngineered.com
				WEB SITE www.hilfiker.com E-MAIL info@hilfiker.com		KCesaretti@att.net
					CIVIL ENGINEERING SPECIALISTS	Reestretti@utt.net



PARAMETERS					
	Base Length of Mats				
	(B <sub>2</sub> ) ft				
	8.75'				
	10.5'				
	12.25'				
	14.0'				
.0x3.5 WWR (Type 1) /7.0x3.5 WWR (Type 2)					

