DESIGN NOTES

- 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 Hilfiker Retaining Walls.
- 2. Assumed Soil Characteristics:

Wall Backfill:

Unit Weight: 120 pcf Internal Friction Angle: 34°

Cohesion = 0 psf

Retained Backfill:

Unit Weight: 100 pcf

Internal Friction Angle: 32°

Cohesion = 0 psf

Foundation Soils:

Unit Weight: 100 pcf

Friction Angle for Sliding: 32° Cohesion = 0 psf

Applied Bearing Pressure - applied (per Myerhof) at 16' Height - 2200 psf.

Factor Bearing Load - 3,100 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.

- 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.
- 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.

Drainage control shall be as specified in the project plans and specifications or as directed by the engineer.

5. Design Procedure:

Mechanically Stabilized Earth walls and Reinforced Soil Slopes, FHWA report No. FHWA-NHI-00-043.

- All information hereon is derived from the reference drawings, and is subject to geometric and geotechnical confirmation. The applicable Hilfiker construction guide and specifications are an integral part of this submittal.
- Hilfiker Retaining Walls shall be responsible only for the internal stability of the retaining wall, and not for global stability or foundation bearing capacity. The Contractor shall be global stability and foundation competence. The Contractor is responsible for all job site drainage, safety and fall protection provisions for workers in compliance with OSHA and any other applicable requirements.

Note: If Foundation Soils are soft and/or yielding, removal of this material and replacing with acceptable engineered fill is required.



INSTALLED QUANTITIES:

MSE WALL AREA:

12,464 SF

THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED 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 End/Wall WLOL/18+93.69 A1/LINE \$TA 13+69 24' LT See Concave Curve Detail NOTE: PLAN EXCERPT TAKEN FROM PROJECT PLAN SET (DGN FILE), TOPOGERAPHY Face of Hilfiker Welded Wire Wall Extent of @ 576' Radius Reinforcement WLOL 10+95.95 A1 LINE STA 22+00 LT 24.0' Begin Wall WLOL×9+99.49 A1 LINE STA 23+00 LT 24.04 **MSE WALL PLAN VIEW** SCALE: 1" = 100' HW 150601DF

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TOLL-FREE **800.762.8962**PH **707.443.5093** FAX **707.443.2891**WEB SITE www.hilfiker.com E-MAII. info@hilfiker.com





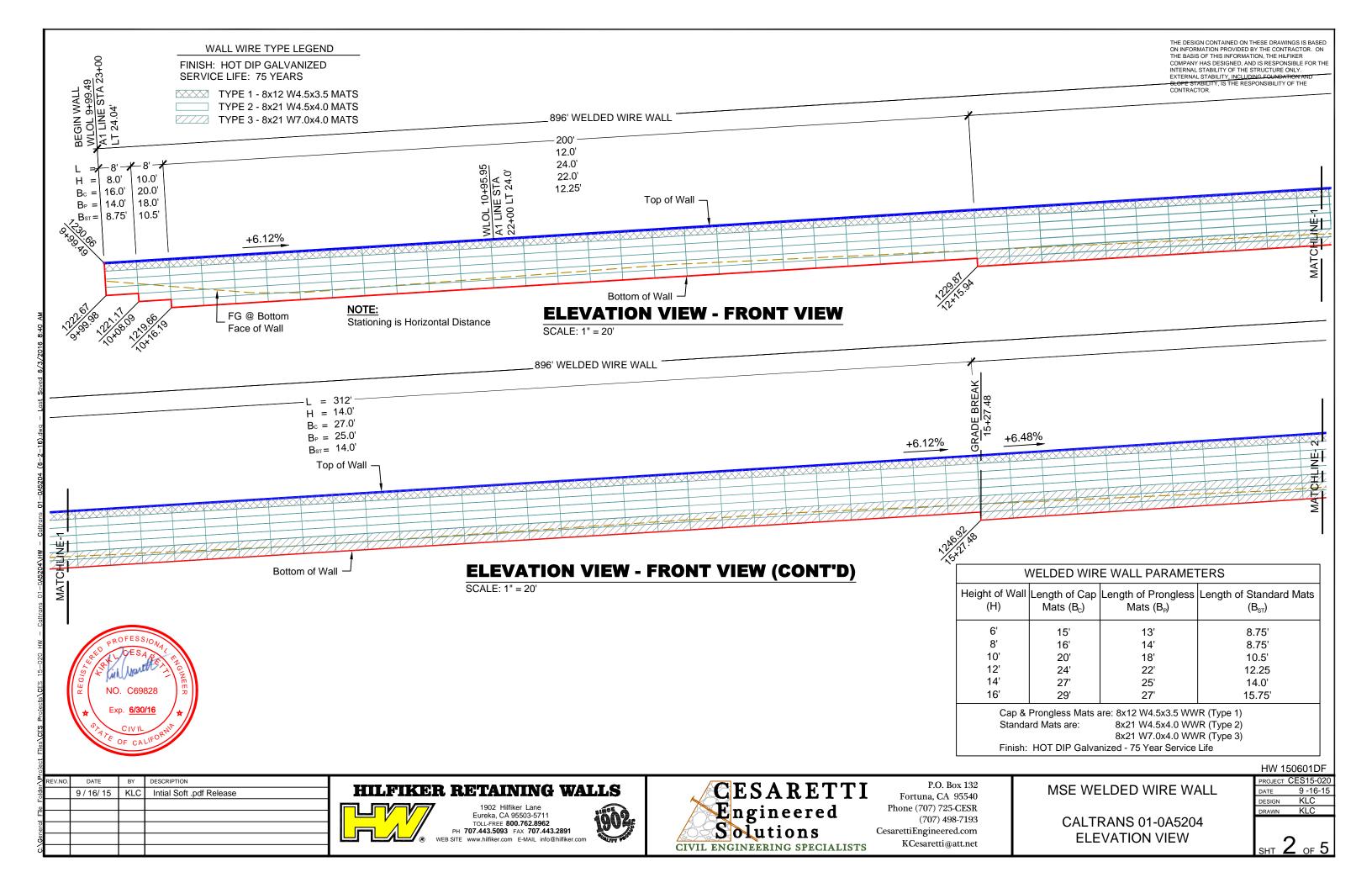
P.O. Box 132
Fortuna, CA 95540
Phone (707) 725-CESR
(707) 498-7193
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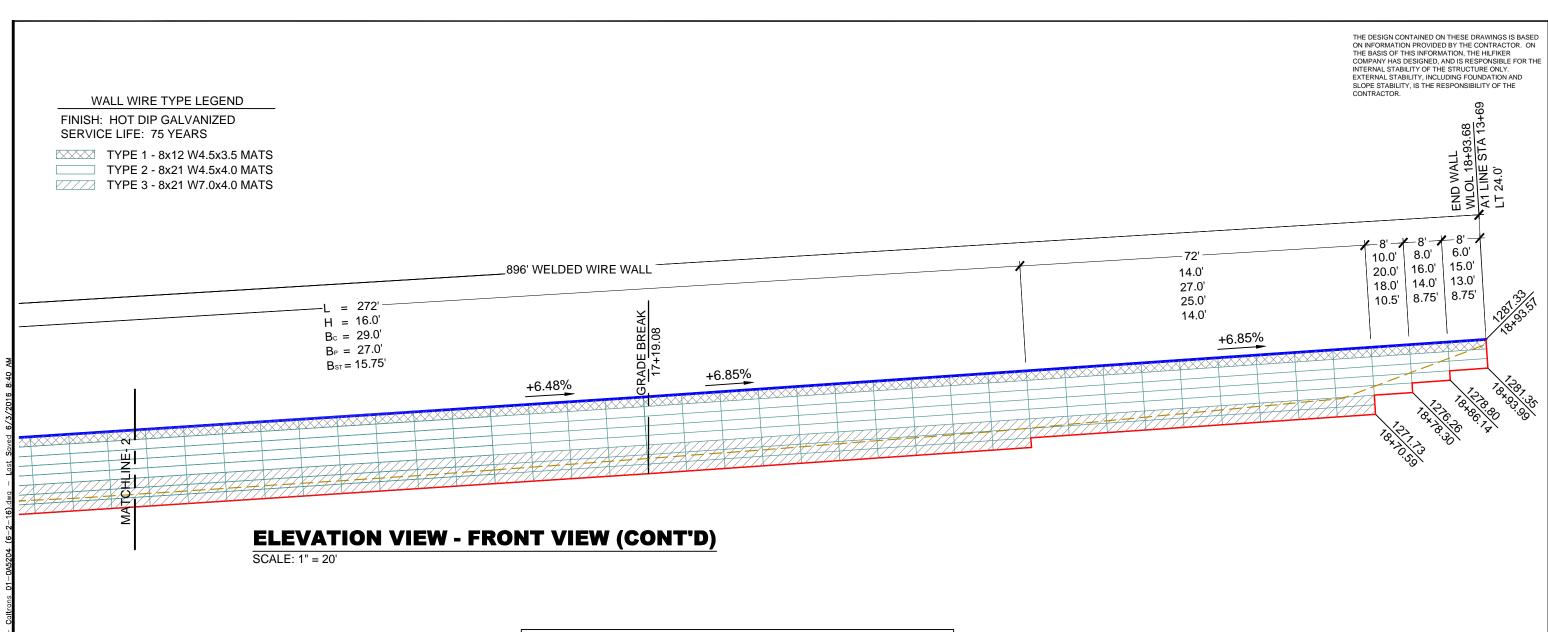
MSE WELDED WIRE WALL

CALTRANS 01-0A5204 PLAN VIEW & GENERAL NOTES

PROJECT	CES15-020
DATE	9 -16-15
DESIGN	KLC
DRAWN	KLC

SHT 1 OF





WELDED WIRE WALL PARAMETERS			
Height of Wall	Length of Cap	Length of Prongless	Length of Standard Mats (B _{ST})
(H)	Mats (B _c)	Mats (B _P)	
6'	15'	13'	8.75'
8'	16'	14'	8.75'
10'	20'	18'	10.5'
12'	24'	22'	12.25
14'	27'	25'	14.0'
16'	29'	27'	15.75'

Cap & Prongless Mats are: 8x12 W4.5x3.5 WWR (Type 1)
Standard Mats are: 8x21 W4.5x4.0 WWR (Type 2)
8x21 W7.0x4.0 WWR (Type 3)
Finish: HOT DIP Galvanized - 75 Year Service Life

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HILFIKER RETAINING WALLS



7 1902 Hilfliker Lane Eureka, CA 95503-5711 TOLLFREE **800.762.8962** PH **707.443.5093** FAX **707.443.2891** WEB SITE www.hilfliker.com E-MAIL info@hilfiker.com



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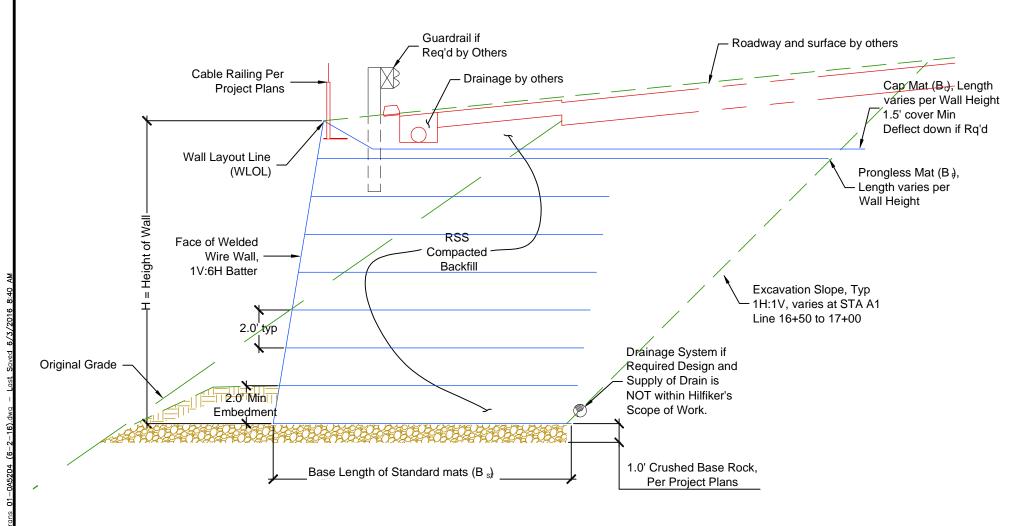
P.O. Box 132 Fortuna, CA 95540 Phone (707) 725-CESR (707) 498-7193 CesarettiEngineered.com KCesaretti@att.net

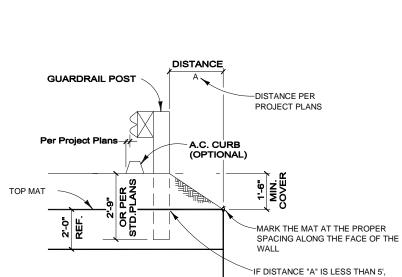
MSE WELDED WIRE WALL

CALTRANS 01-0A5204 ELEVATION VIEW (CONT'D)

HW 1	50601DF
PROJECT	CES15-020
DATE	9 -16-15
DESIGN	KLC
DRAWN	KLC

SHT 3 OF 5





PLAN VIEW

CONCAVE CURVE

SPREAD THE BACK OF THE

CUT A HOLE IN THE CAP MAT FOR POST PENETRATION

FACE OF WELDED WIRE

WALL

FOR A SMOOTHER CURVE. SPLIT

THE MAT BASES AND BEND THE FACES. DO NOT SPLIT MAT FACES

OR CUT LONGITUDINAL WIRES

WELDED WIRE WALL FACE

TOP OF BERM

SECTION **GUARDRAIL DETAIL** NOT TO SCALE (FENCE DETAIL SIMILAR)

TYPICAL CROSS SECTION

SCALE: 1" = 5'



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HILFIKER RETAINING WALLS



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MSE WELDED WIRE WALL

CALTRANS 01-0A5204 CROSS SECTION VIEW & DETAILS

HW 150601DF			
	PROJECT	CES15-020	
	DATE	9 -16-15	
	DESIGN	KLC	
	DRAWN	KLC	
	DESIGN	KLC	

