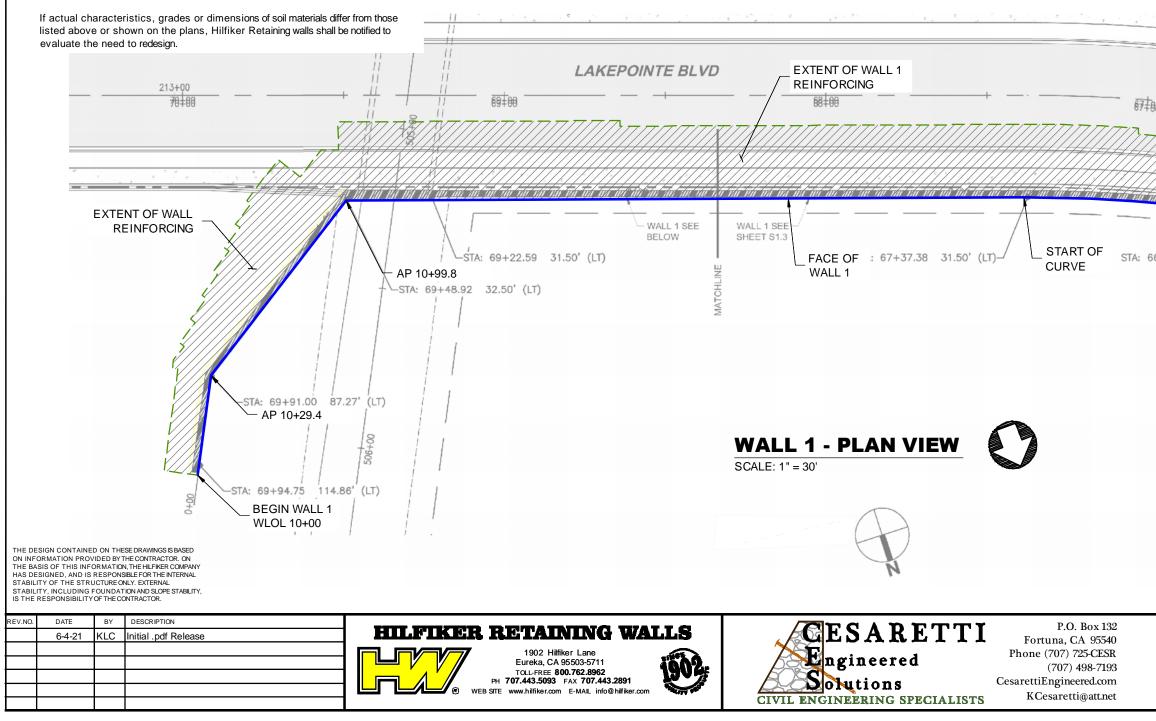
DESIGN NOTES

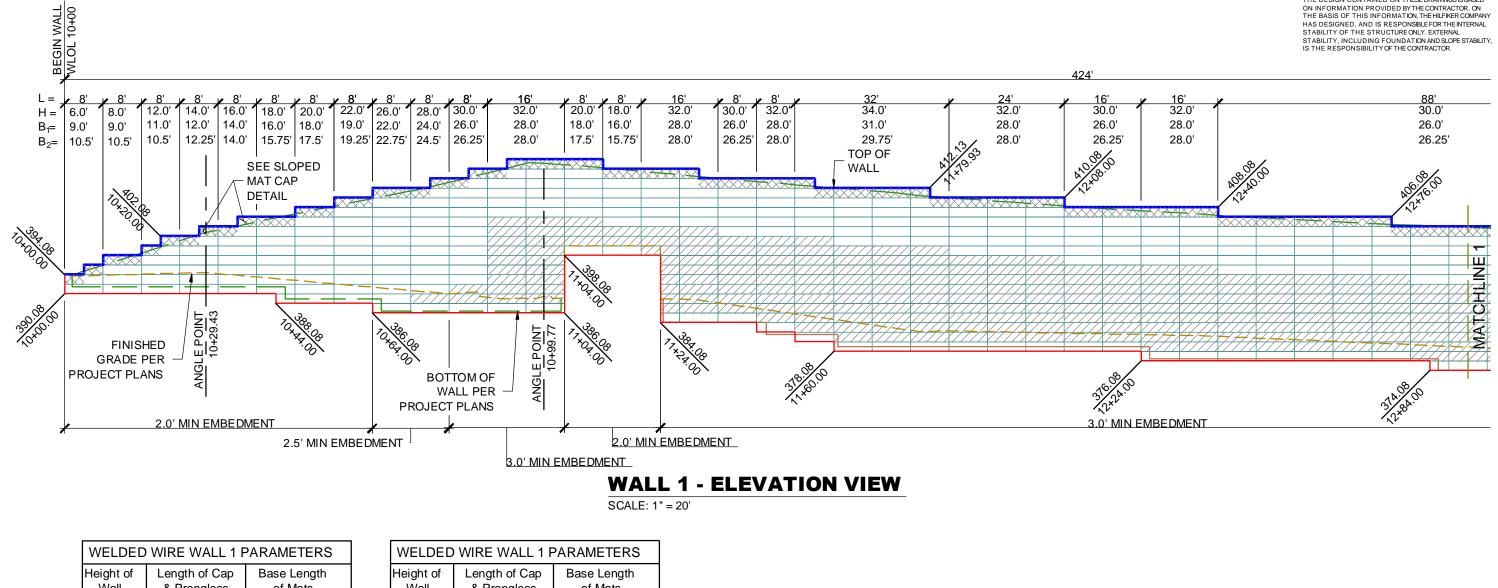
- Design is based on the assumption that backfill within the reinforced soil mass, methods of construction and quality of materials conform to the requirements of Hilfiker Retaining Walls.
- 2. Assumed Soil Characteristics:
 - Wall Backfill: Unit Weight: 130 pcf Internal Friction Angle: 36° Cohesion = 0 psf Retained Backfill: Unit Weight: 130 pcf Internal Friction Angle: 32° Cohesion = 0 psf Foundation Soils: Unit Weight: 125 pcf Internal Friction Angle: 34° Cohesion = 0 psf

Worst Case Factored Bearing Load by MSE Wall- @ 34' Height - 8390 psf.

- 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.
- 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.
- 7. 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 responsible for 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.



	SUPPLIED Q		
	SUPPLIED G	UANIIIES	
	WALL NO.	FACE AREA	
	WALL 1	10,704 SQ. FT.	
	WALL 2 TOTALS	1,120 SQ. FT. 11,824 SQ. FT.	
	TOTALS	11,024 00.11.	
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		2	e.
			1
	NT OF WALL 1		
HATT		66+00	-
HHADA			
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The var var var var var	4441177777		
110 111 110		11	-
			1 h
6+50 11 31 50' (LT)		14 <u>1</u> 55	11 1 11
	END OF	END WALL 1	11 1 11
	END OF CURVE	- 1	11 1 11
L	CURVE	END WALL 1	10 1 11
L		END WALL 1	11 1 11
L	CURVE	END WALL 1	11 -1 -11
L	CURVE	END WALL 1	11 1 11
L	CURVE	END WALL 1	11 1 01
L	CURVE	END WALL 1	11 1
L	CURVE	END WALL 1	11 1 11
L	CURVE	END WALL 1	11 1 11
L	CURVE	END WALL 1	11 1 11
L	CURVE	END WALL 1 WLOL 14+24	11 1 0
L	CURVE	END WALL 1	
L	CURVE	END WALL 1 WLOL 14+24	
L	CURVE .50' (LT)	END WALL 1 WLOL 14+24	
L	CURVE .50' (LT)	END WALL 1 WLOL 14+24	
L	CURVE .50' (LT)	END WALL 1 WLOL 14+24	
L	CURVE .50' (LT)	END WALL 1 WLOL 14+24	
L	CURVE .50' (LT)	END WALL 1 WLOL 14+24	
L	CURVE .50' (LT)	END WALL 1 WLOL 14+24	
STA: 66+20.00 31	CURVE .50' (LT)-	END WALL 1 WLOL 14+24	
STA: 66+20.00 31	CURVE .50' (LT)	END WALL 1 WLOL 14+24	
STA: 66+20.00 31 Lakepointe WELDED V	CURVE .50' (LT)-	END WALL 1 WLOL 14+24	
STA: 66+20.00 31	CURVE .50' (LT)-	END WALL 1 WLOL 14+24	



WELDED WIRE WALL 1 PARAMETERS			
Height of Wall (H) ft	Length of Cap & Prongless Mats (B₁) ft	Base Length of Mats (B₂) ft	
<u><</u> 10'	9.0'	10.5'	
12'	11.0'	10.5'	
14'	12.0'	12.25'	
16'	14.0'	14.0'	
18'	16.0'	15.75'	
20'	18.0'	17.5'	
22'	19.0'	19.25'	

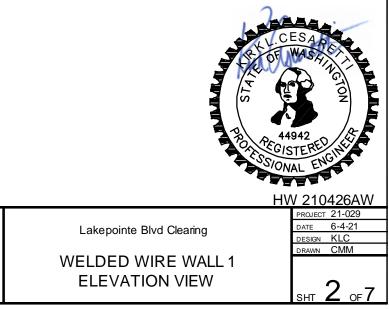
WELDED WIRE WALL 1 PARAMETERS			
Height of Wall (H) ft	Length of Cap & Prongless Mats (B₁) ft	Base Length of Mats (B₂) ft	
24'	20.0'	21.0'	
26'	22.0'	22.75'	
28'	24.0'	24.5'	
30'	26.0'	26.25'	
32'	28.0'	28.0'	
34'	31.0'	29.75'	

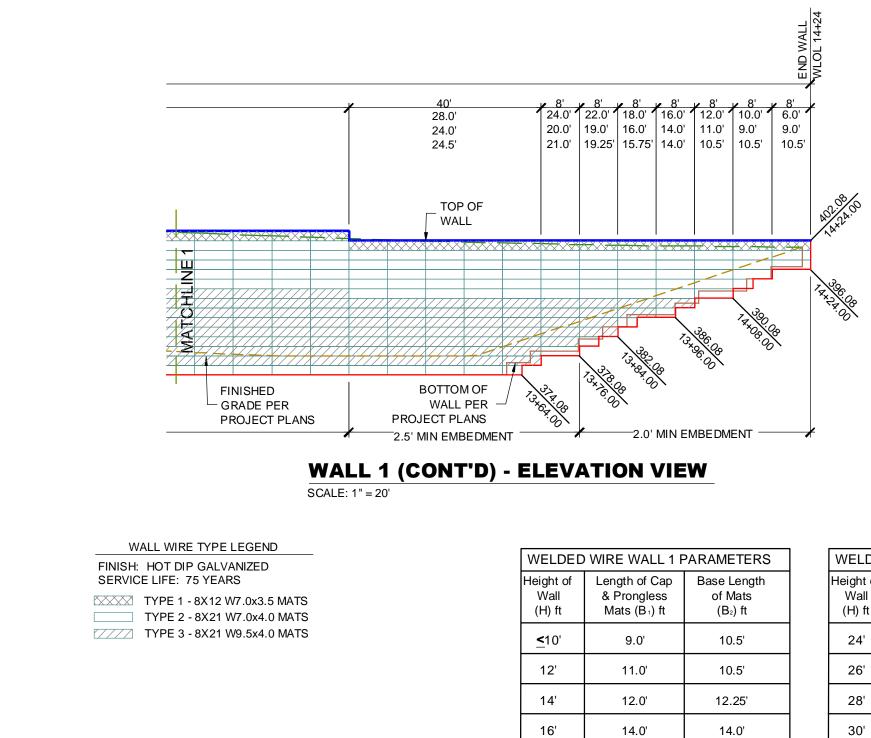
WALL WIRE TYPE LEGEND				
FINISH: HOT DIP GALVANIZED SERVICE LIFE: 75 YEARS				
	TYPE 1 - 8X12 W7.0x3.5 MATS			
	TYPE 2 - 8X21 W7.0x4.0 MATS			
	TYPE 3 - 8X21 W9.5x4.0 MATS			

	SCRIPTION	BY	DATE	REV.NO.
HILFIKER RETAINING WALLS	al .pdf Release	KLC	6-4-21	
		┞──┦		
TOLL-FREE 800.762.8962 PH 707.443.5093 FAX 707.443.2891				
WEB SITE www.hilfiker.com E-MAIL info@hilfiker.com				



THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED ON INFORMATION PROVIDED BY THE CONTRACTOR. ON THE BASIS OF THIS INFORMATION, THE HILFIKER COMPANY





WELDED WIRE WALL 1 PARAMETERS			
Height of Wall (H) ft	Length of Cap & Prongless Mats (B1) ft	Base Length of Mats (B ₂) ft	
24'	20.0'	21.0'	
26'	22.0'	22.75'	
28'	24.0'	24.5'	
30'	26.0'	26.25'	
32'	28.0'	28.0'	
34'	31.0'	29.75'	

REV.NO.	DATE	BY	DESCRIPTION			P.O. Box 132
	6-4-21	KLC	Initial .pdf Release	HILFIKER RETAINING WALLS	CESARETTI	Fortuna, CA 95540
				1902 Hilfiker Lane		Phone (707) 725-CESR
				1902 Hilfiker Lane Eureka, CA 95503-5711 TOLI-FREE 800.762.8962 PH 707.443.5093 FAX 707.443.2891 WEB SITE www.hilfiker.com E-MAIL info@hilfiker.com	Ingineered	(707) 498-7193
				PH 707.443.5093 FAX 707.443.2891	Solutions	CesarettiEngineered.com
				WEB SITE www.hilfiker.com E-MAIL info@hilfiker.com	CIVIL ENGINEERING SPECIALISTS	KCesaretti@att.net

18'

20'

22'

16.0'

18.0'

19.0'

15.75'

17.5'

19.25'

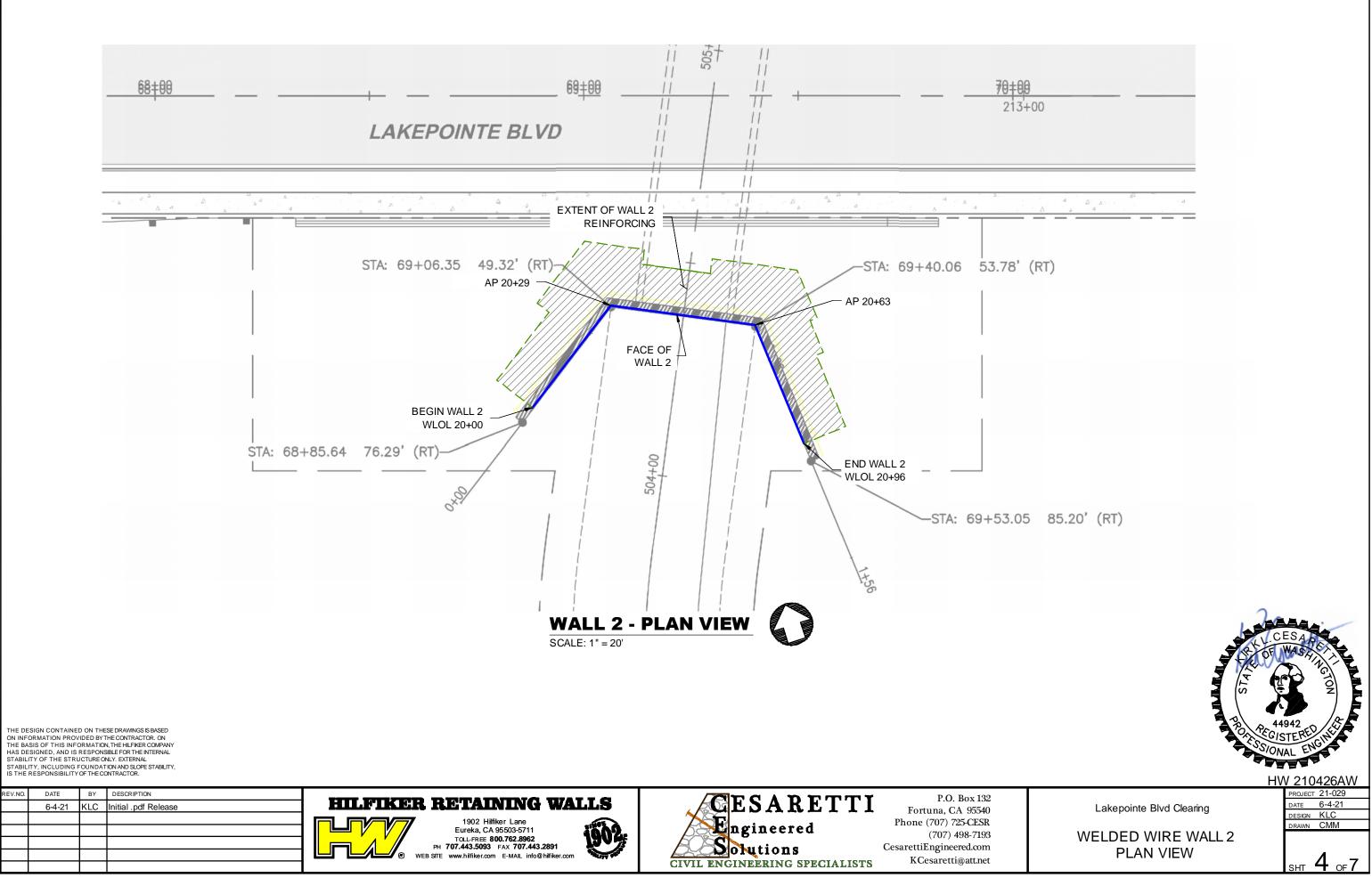




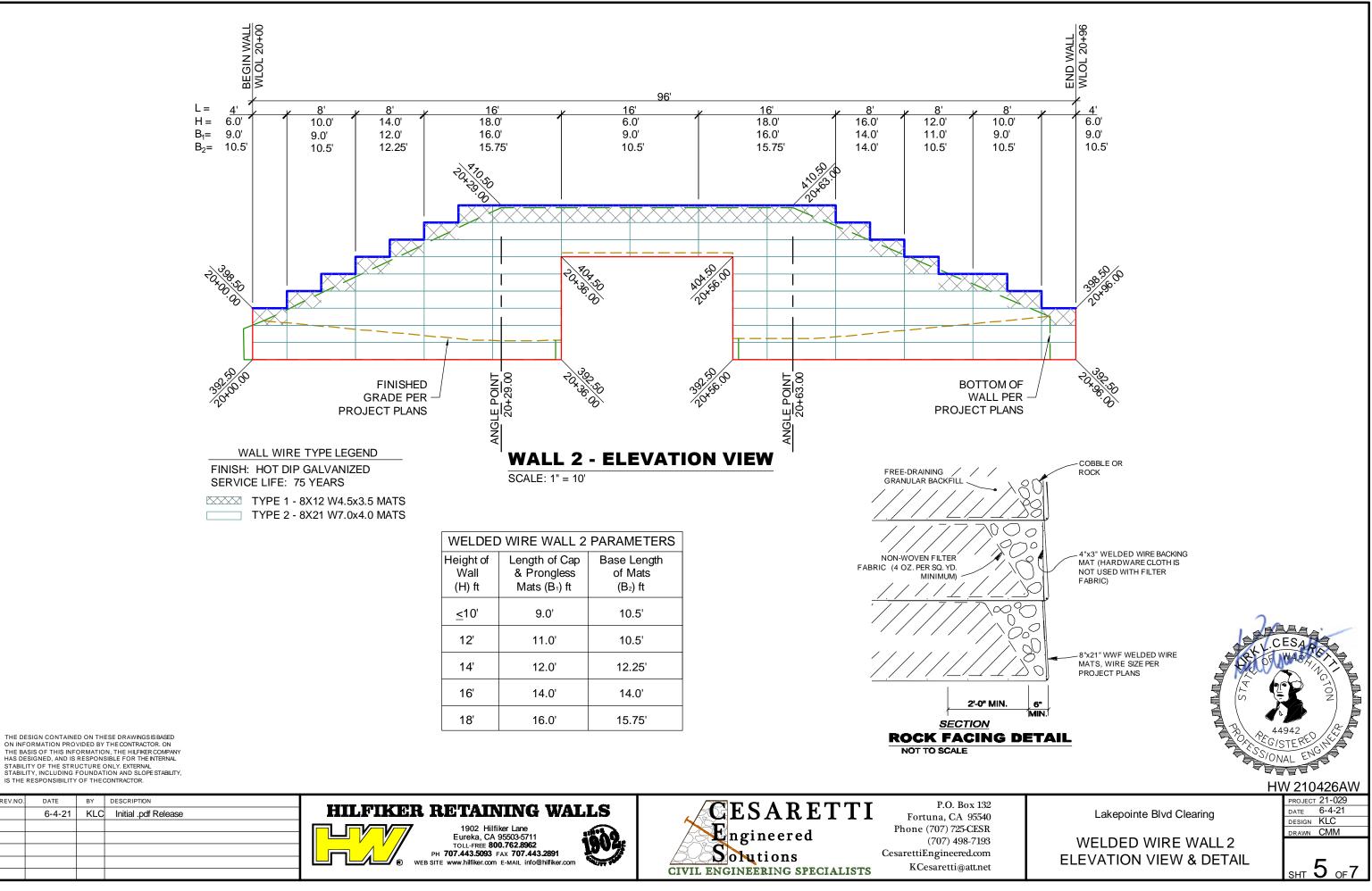
Lakanai		
Lakepoi	nie bivu	Cleaning



THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED ON INFORMATION PROVIDED BY THE CONTRACTOR. ON THE BASIS OF THIS INFORMATION, THEHILFRER 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 CONTRACTOR.



REV.NO.	DATE	BY	DESCRIPTION	
	6-4-21	KLC	Initial .pdf Release	HILFIKER RETAINING WALLS \mathbf{GESARE}
				1902 Hiffker Lane Eureka, CA 95503-5711 TOLLFREE 800.762.8962
				CIVIL ENGINEERING SPECI



DATE

6-4-21

BY

REV.NO

