DESIGN NOTES

- Design is based on the assumption that the methods of construction and quality of materials conform to the requirements of Hilfiker Retaining Walls.
- 2. Soil Characteristics:

SN - Retained Soils

Unit Weight: 115 pcf Internal Friction Angle: 40° Cohesion = 150 psf Bond Stress = 15 psi

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

- Design Procedure: Geotechnical Engineering Circular No. 7 - Soil Nail Walls FHWA Report No. FHWA0-IF-03-017.
- Conflicts between the trusswall panels, pillasters or spiralnails and obstructions are resolved in the field by any combination of the
 - a) Trimming the vertical truss wall panel wires and or bending vertical & horizontal wires to accommodate the penetration through
 - b) Trimming the bottom part of the pilaster
 - c) Slight Re-oriention of the spiralnail angle or direction. If re-orientation of the pilaster or nails is more than one foot from the planned location, confirmation of the change shall be approved by
- This design is intended to be responsible for the internal stability of the retaining wall only, and not for global stability or foundation bearing capacity. CES is not responsible for job site drainage, safety and fall protection provisions including compliance with OSHA regulations, nor the Competent Person designated for daily inspection.

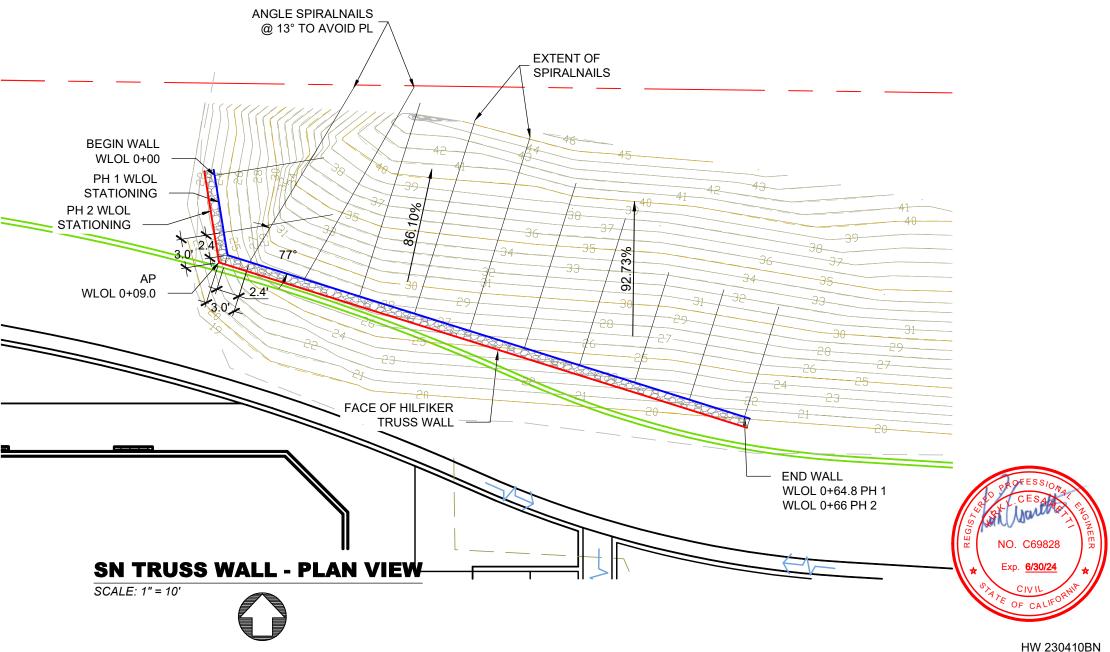
SUPPLIED QUANTITY			
FACING MATS	TRUSS FACING (SF)	PILLASTER	SPIRALNAILS
	384	(1) 2.5'	(6) 12'
9		(3) 4.5'	(6) 16'
		(3) 6.5'	(3) 18'
		(3) 8.5'	(9) 22'
		(2) 9.0'	(6) 24'

ON INFORMATION PROVIDED BY THE OWNER. ON THE BASIS OF THIS INFORMATION, CES HAS DESIGNED FOR THE INTERNAL STABILITY OF THE STRUCTURES ONLY. EXTERNAL STABILITY, INCLUDING FOUNDATION AND GLOBAL SLOPE STABILITY, IS THE RESPONSIBILITY OF THE

THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED.

EXISTING INFRASTRUCTURE

PIPING, UTILITIES, OR ANY OTHER UNDERGROUND ITEMS OR INFRASTRUCTURES MAY OR MAY NOT BE SHOWN. SPIRALNAILS WERE LOCATED ON THESE PLANS AS COULD BE BEST DETERMINED WITH THE INFORMATION PROVIDED. PRECISE LOCATIONS SHALL BE ASCERTAINED IN THE FIELD PRIOR TO DRAWING APPROVAL AND CONFIRMED BY OTHERS. DESIGN APPROVAL WARRANTS NEITHER HILFIKER NOR CES WILL BE LIABLE FOR ANY DAMAGE CAUSED BY SPIRALNAIL INSTALLATIONS PERFORMED IN ACCORDANCE WITH THESE PLANS. CALL USA PRIOR TO ANY EXCAVATION OR NAIL INSTALLATION.



DESCRIPTION Intial Electronic (.pdf) Release 10/10/23 KLC



1902 Hilfiker Lane Eureka, CA 95503-5711 TOLL-FREE 800.762.8962 PH 707.443.5093 FAX 707.443.2891 WEB SITE www.hilfiker.com E-MAIL info@hilfiker.com





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

2411 Broadway Starbucks SPIRALNAIL TRUSS WALL

PLAN VIEW & GENERAL NOTES

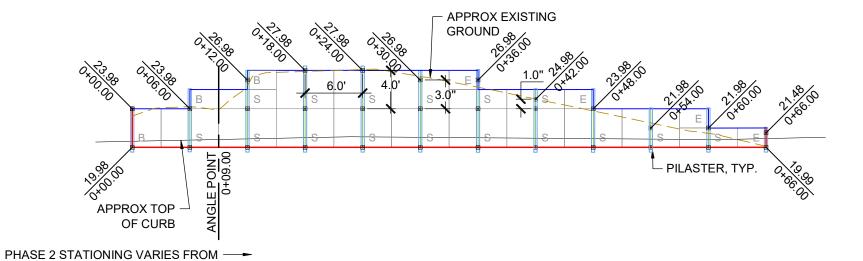
PROJECT 23-066 DATE 10-6-23 DESIGN KLC DRAWN KLC

PHASE 1 - SPIRALNAIL WELDED WIRE SHORING - ELEVATION VIEW

SCALE: 1" = 10'

SHORING PARAMETERS		
SECTION	HEIGHT	SPIRALNAIL
1	3.0'	2 - 12'L
2	4.7'	2 - 16'L
3	5.7'	3 - 18'L
4	8.0'	3 - 22'L
5	8.7'	3 - 24'L

ALL SPIRALNAILS ARE INCLINED 15°.



PHASE 2 - SPIRALNAIL TRUSS WALL - ELEVATION VIEW

SCALE: 1" = 10'

BASIS OF THIS INFORMATION. CES HAS DESIGNED FOR THE					
BASIS OF THIS INFORMATION, CES HAS DESIGNED FOR THE INTERNAL STABILITY OF THE STRUCTURES ONLY. EXTERNAL STABILITY, INCLUDING FOUNDATION AND GLOBAL SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER.					
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PROPOSED CONSTRUCTION SEQUENCE:

MAXIMUM UNSHORED 5'H EXCAVATION, AS

FACING SYSTEM TO THE SHORING.

SHOWN ON SHT 4.

PHASE 1: IS TOP DOWN CONSTRUCTION WITH A

PHASE 2: CONNECTS SPIRALNAIL TRUSS WALL



PH 1@ AP & RT, BASED ON OUTSIDE OF TRUSS FACING SYSTEM WLOL

> 1902 Hilfiker Lane Eureka, CA 95503-5711 TOLL-FREE **800.762.8962**PH **707.443.5093** FAX **707.443.2891**



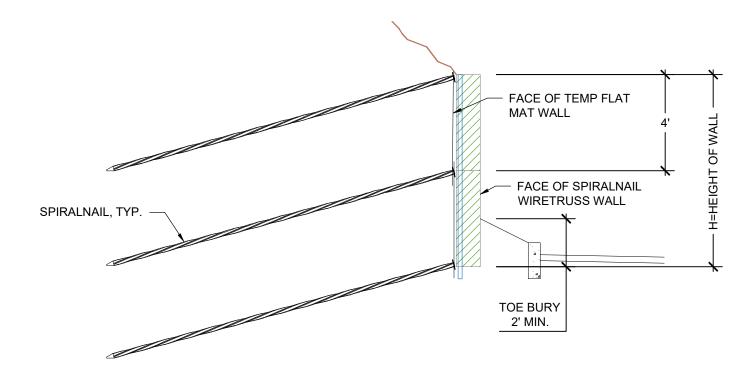


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2411 Broadway Starbucks SPIRALNAIL TRUSS WALL

ELEVATION VIEWS

	44051
 IW 230	<u>410BN</u>
PROJECT	23-066
DATE 1	0-6-23
DESIGN	KLC
DRAWN	KLC



TYP CROSS SECTION

1"=5'

NO. C69828

Exp. 6/30/24

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HW 230410BN

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HILFIKER RETAINING WALLS



1902 Hilfiker Lane
Eureka, CA 95503-5711
TOLL-FREE 800.762.8962
PH 707.443.50903 FAX 707.443.2891
WEB SITE www.hilfiker.com E-MAIL info@hilfiker.com





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CROSS SECTION & DETAILS

HW 2304 IUBIN				
	PROJECT	23-066		
	DATE '	10-6-23		
	DESIGN	KLC		
	DRAWN	KLC		

SHT 3 OF 4

