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 (Compliant to the Special Provisions Requirement 0A596.11):

Unit Weight: 136 pcf Internal Friction Angle: 35°

Cohesion = 0 psf Retained Backfill:

> Unit Weight: 136 pcf Internal Friction Angle: 35°

Cohesion = 0 psf

Foundation Soils:

Unit Weight: 136 pcf

Friction Angle for Sliding: 35°

Cohesion = 0 psf

Assumes a worst case Building Surcharge Dead Load of 2000 psf.

Worst Case Factored Bearing Pressure by MSE Wall- @ 18' Height - 6750 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.

WELDED WIRE W	ALL FACE	AREAS
<u>Wall</u>	Quantity	Sheet
WALL 1	8,912 ft ²	1-4
WALL 2	656 ft ²	5
WALL STAIR 3R	128 ft ²	5
WALL 3	320 ft ²	6
WALL 4	2,864 ft ²	7
WALL STAIR 4 P3	480 ft ²	8
WALL STAIR 4 P4	128 ft ²	8
WALL 5	2,080 ft ²	9
WALL 6	1,760 ft ²	10-11
WALL 7	2,832 ft ²	12
WALL 8	1,856 ft ²	13
WALL 9	2,224 ft ²	14
WALL 11	288 ft ²	15
WALL 12	288 ft ²	15
WALL 13	1,088 ft ²	16-17
WALL 14	672 ft ²	18
Total	26,576 ft ²	

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.

8- 4-16

DESCRIPTION

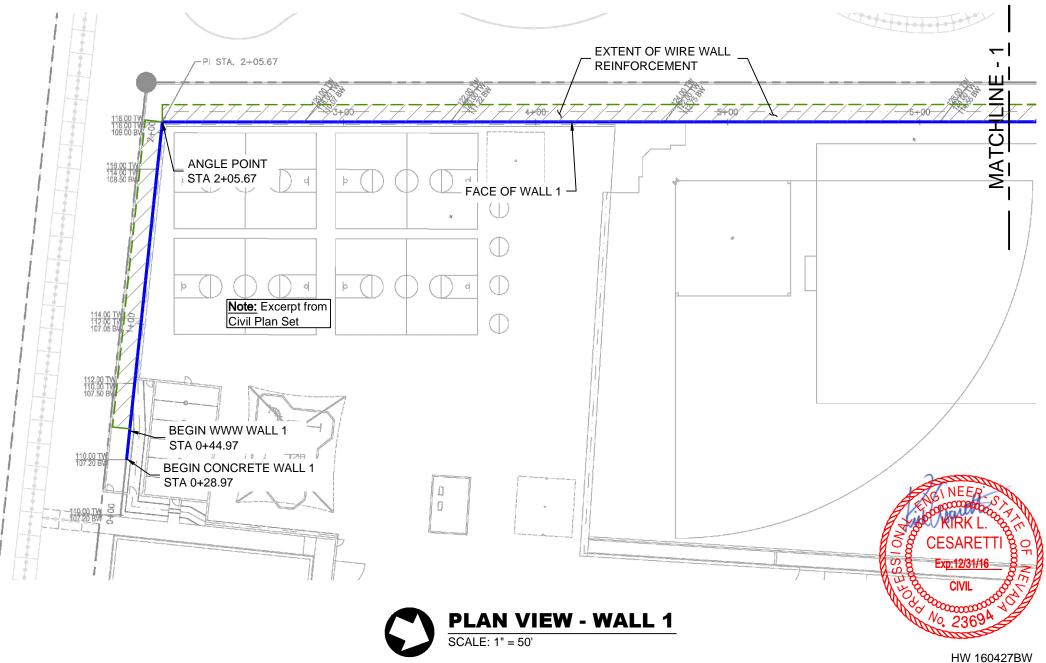
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- If during construction, the wall location, structure location or loads are different than that proposed in this plan set and calculation package, HRW shall be notified to evaluate the need for a redesign.
- The design requires a non-saturated backfill. 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.

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

- 6. All information hereon is derived from the reference drawings, and is subject to geometric and geotechnical confirmation. Field verification of existing ground elevations and bottom of wall elevations should be completed prior to construction of the walls. 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.
- 8. These plans are not intended to replace the Architectural Plans or Civil Plans for this project. If there are discrepancies the Project Plans take precendent as the information on these plans is derived from those.



HILFI

ILFIKER RETAINING WALLS

1902 Hilfiker Lane
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PH 707.443.5093 FAX 707.443.2891
WEB SITE www.bilfiker.com E-MAIL info@bilfiker.com



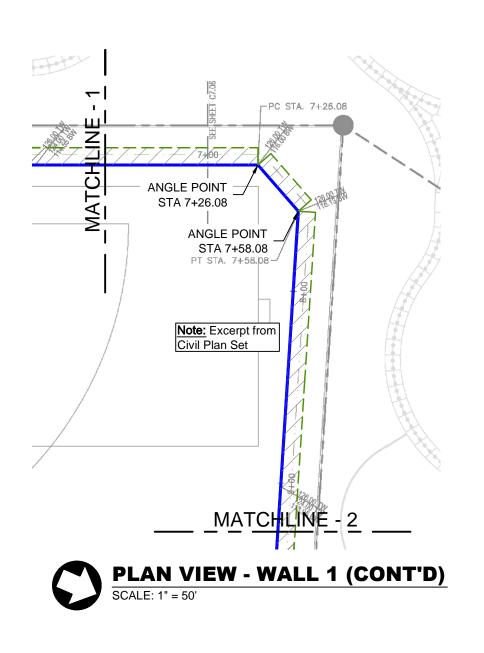


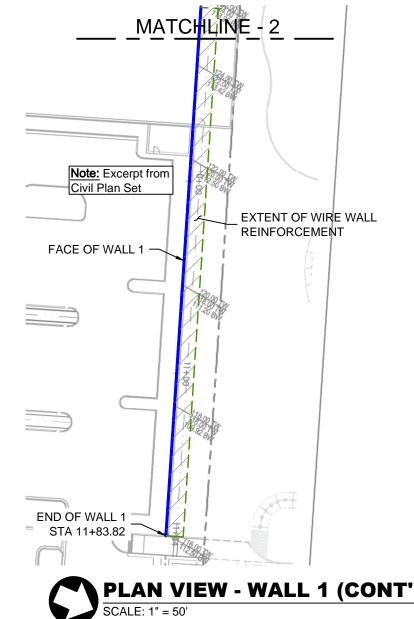
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Unnamed Elementary School at Antelope Ridge

ERS MSE WALLS
PLAN VIEW - WALL 1 & GENERAL
NOTES

PROJECT 16-046
DATE 8-4-16
DESIGN KLC
DRAWN KLC







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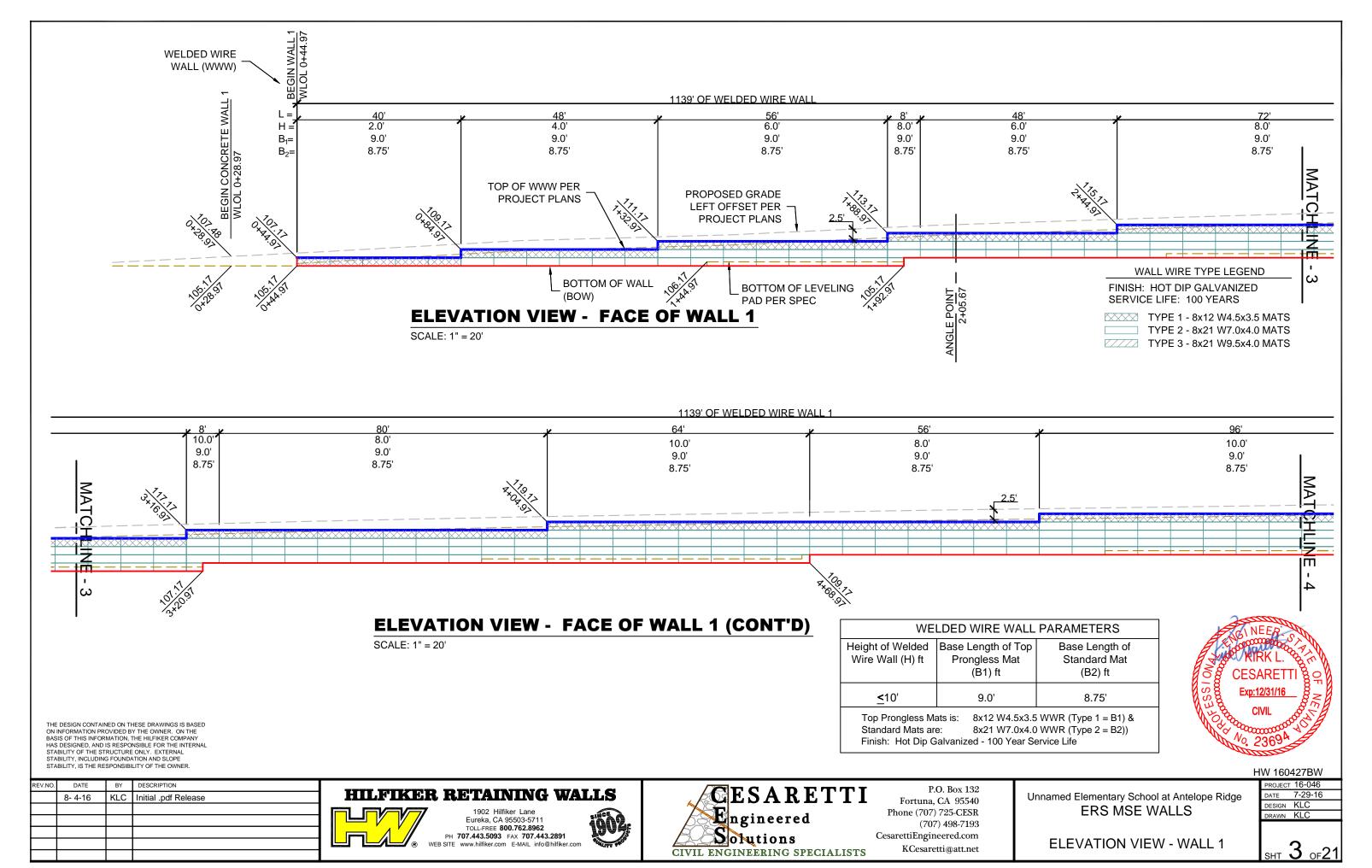
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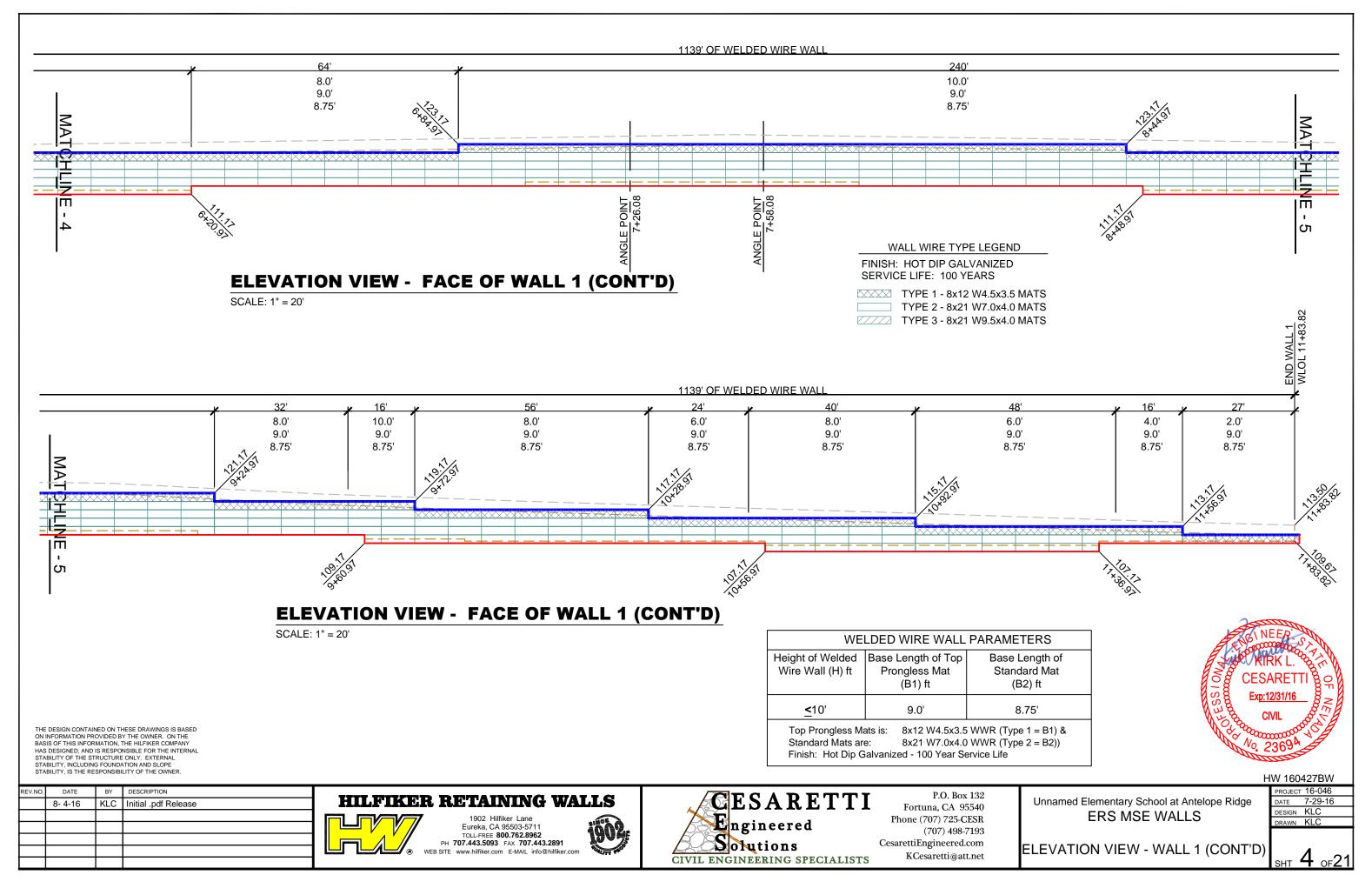
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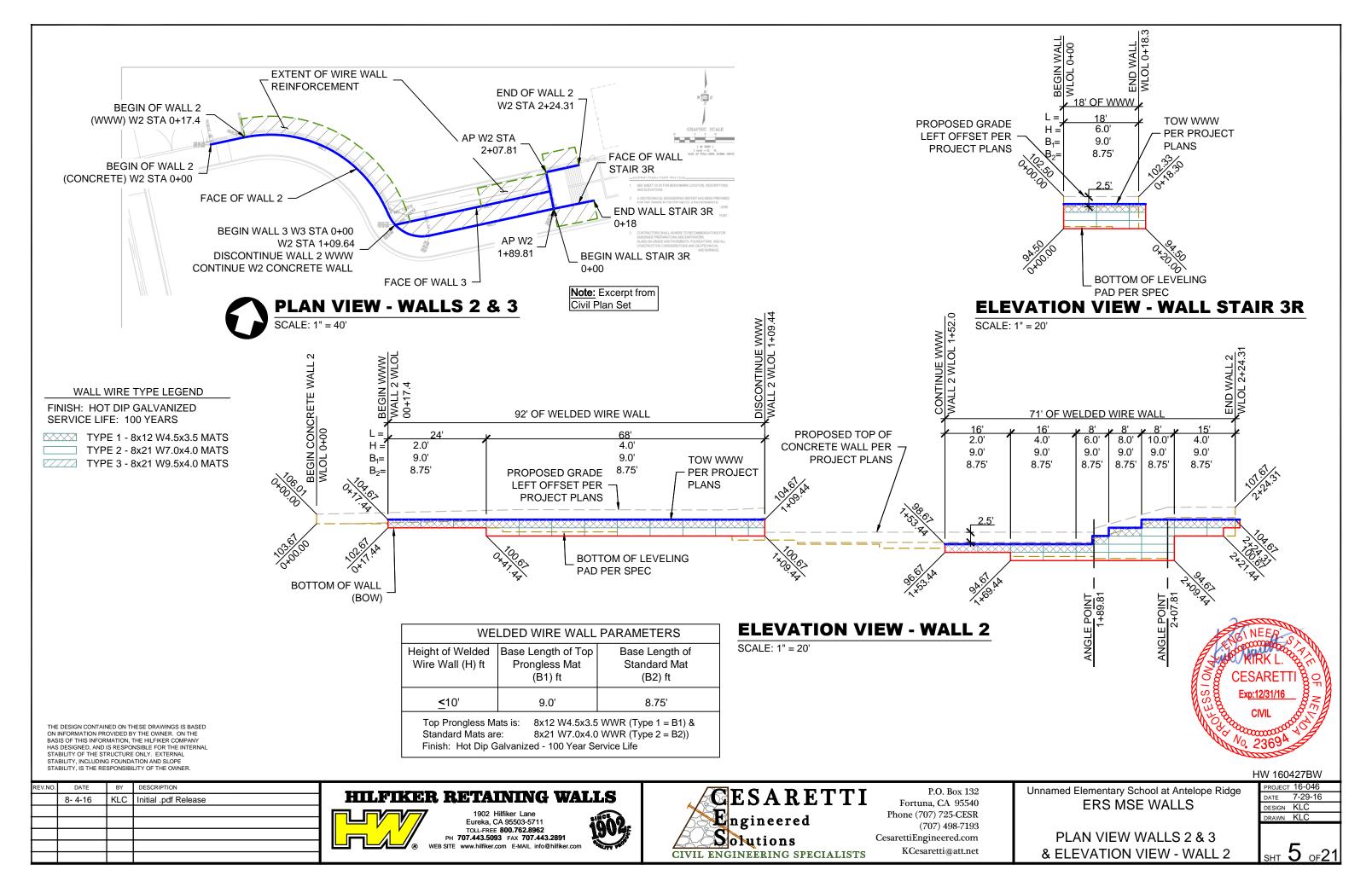
ERS MSE WALLS

PLAN VIEW - WALL 1 (CONT'D)

HW 160427BW РКОЈЕСТ 16-046 DATE 7-29-16 DESIGN KLC DRAWN KLC





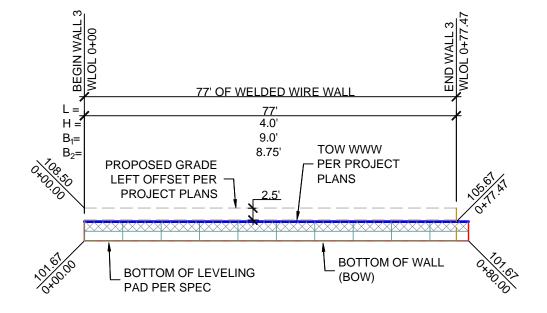


WALL WIRE TYPE LEGEND

FINISH: HOT DIP GALVANIZED SERVICE LIFE: 100 YEARS

TYPE 1 - 8x12 W4.5x3.5 MATS TYPE 2 - 8x21 W7.0x4.0 MATS

TYPE 3 - 8x21 W9.5x4.0 MATS



WELDED WIRE WALL PARAMETERS			
Height of Welded Wire Wall (H) ft	Base Length of Top Prongless Mat (B1) ft	Base Length of Standard Mat (B2) ft	
4'	9.0'	8.75'	

Top Prongless Mats is: 8x12 W4.5x3.5 WWR (Type 1 = B1) & Standard Mats are: 8x21 W7.0x4.0 WWR (Type 2 = B2)) Finish: Hot Dip Galvanized - 100 Year Service Life

ELEVATION VIEW - WALL 3

SCALE: 1" = 20'

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HILFIKER RETAINING WALLS





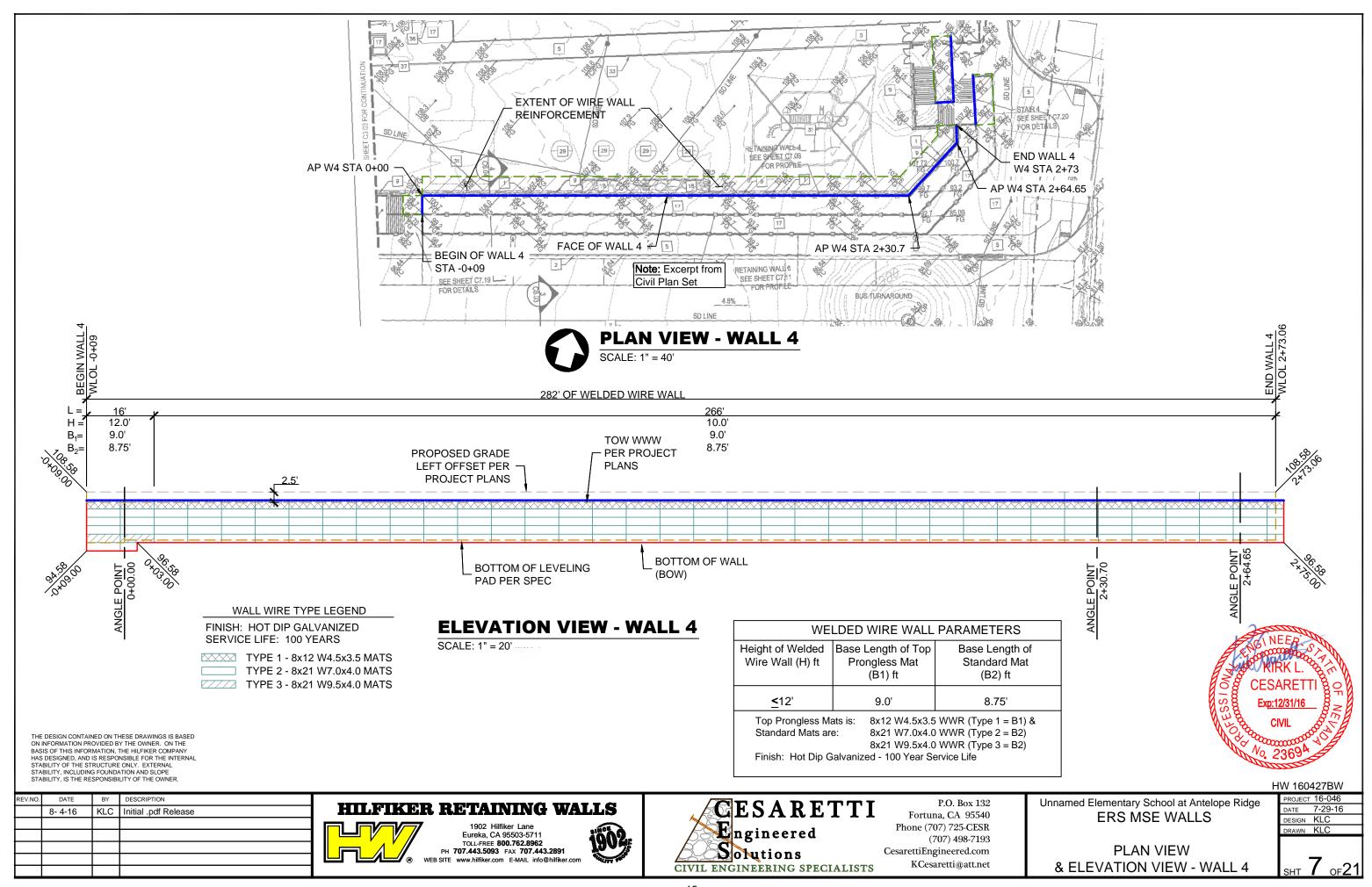
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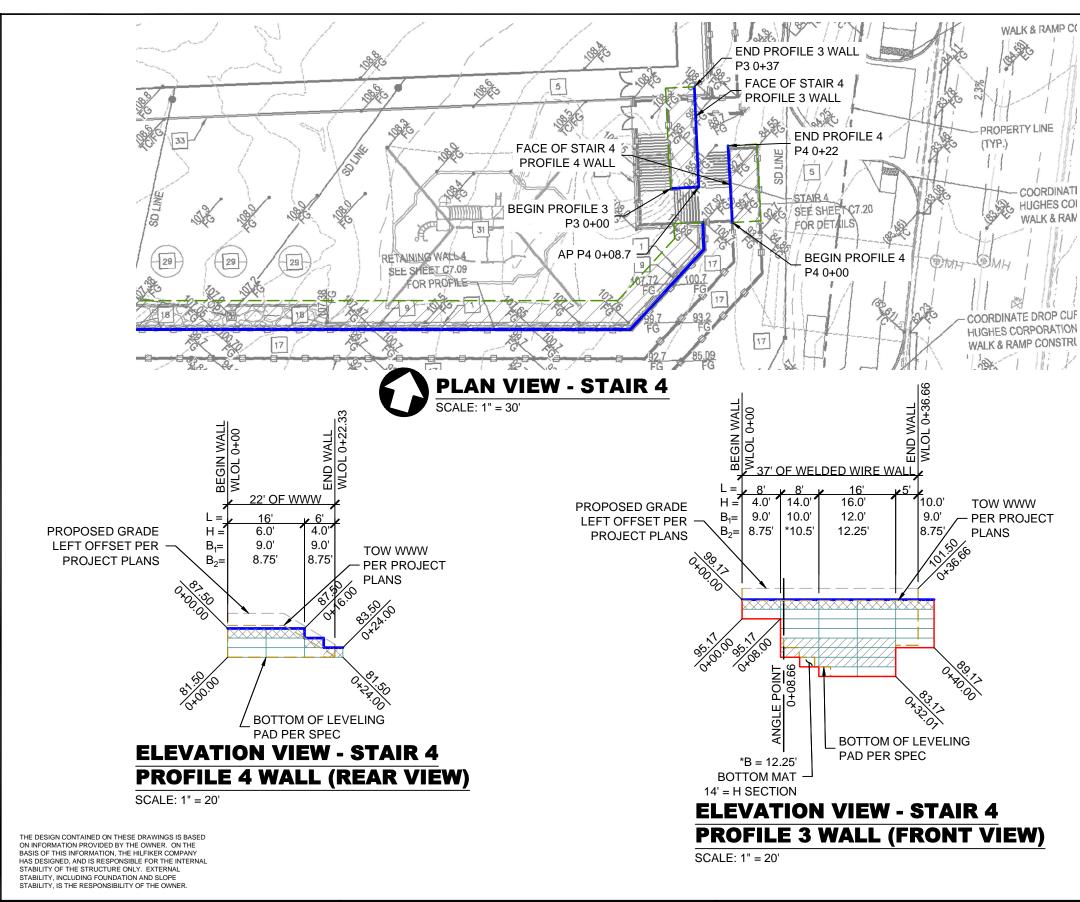
Unnamed Elementary School at Antelope Ridge **ERS MSE WALLS**

ELEVATION VIEW - WALL 3

HW 160427BW				
	PROJECT	16-046		
	DATE	7-29-16		
	DESIGN	KLC		
	DRAWN	KLC		

SHT 6 OF 21





WALL WIRE TYPE LEGEND

FINISH: HOT DIP GALVANIZED SERVICE LIFE: 100 YEARS

TYPE 1 - 8x12 W4.5x3.5 MATS TYPE 2 - 8x21 W7.0x4.0 MATS TYPE 3 - 8x21 W9.5x4.0 MATS

WELDED WIRE WALL PARAMETERS			
Height of Welded Wire Wall (H) ft	Base Length of Top Prongless Mat (B1) ft	Base Length of Standard Mat (B2) ft	
<u><</u> 10'	9.0'	8.75'	
12'	9.0'	10.5'	
14'	10.0'	10.5'	
16'	12.0'	12.25'	

Top Prongless Mats is: 8x12 W4.5x3.5 WWR (Type 1 = B1) & Standard Mats are: 8x21 W7.0x4.0 WWR (Type 2 = B2)8x21 W9.5x4.0 WWR (Type 3 = B2)

Finish: Hot Dip Galvanized - 100 Year Service Life



HW 160427BW

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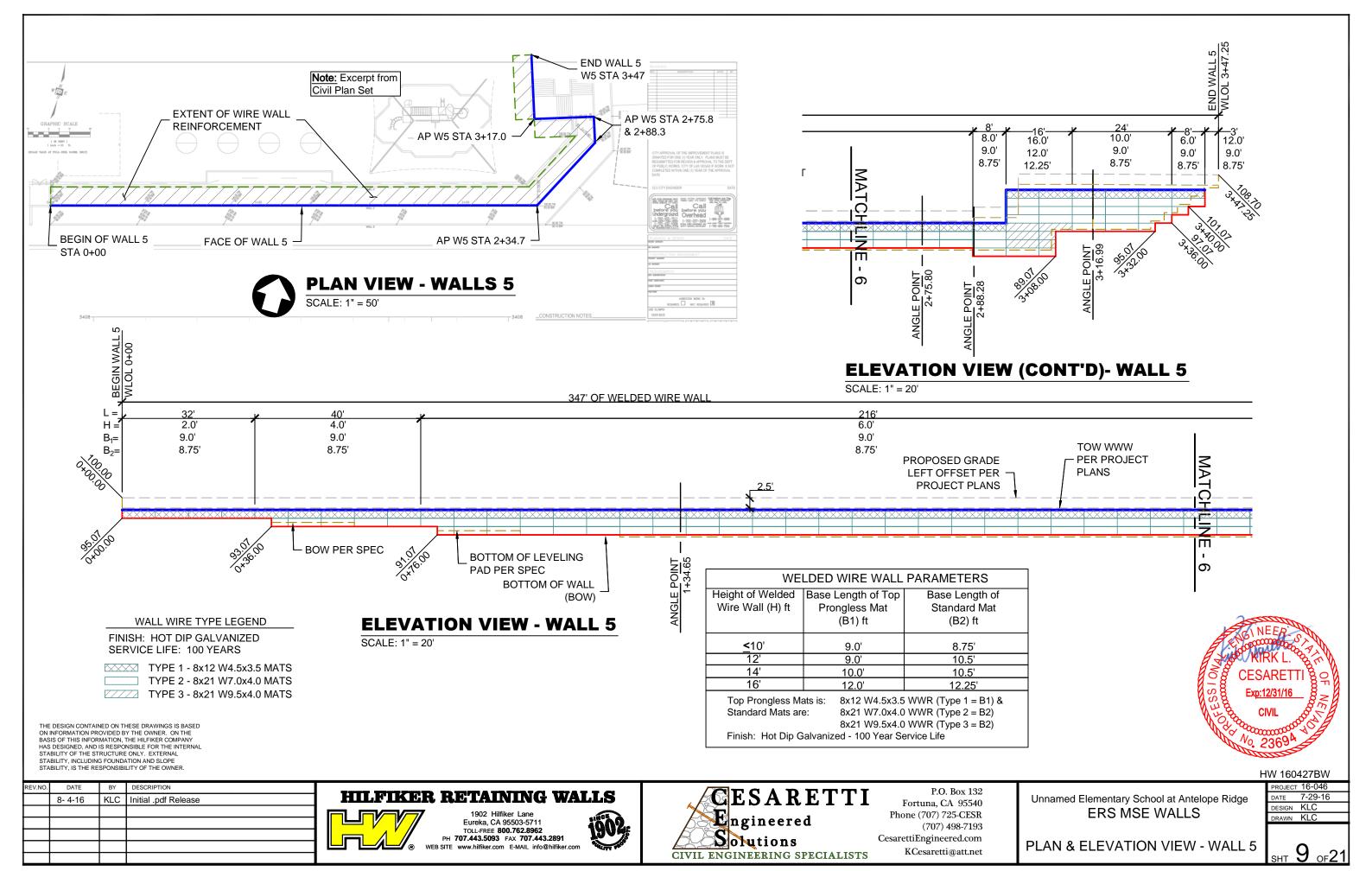


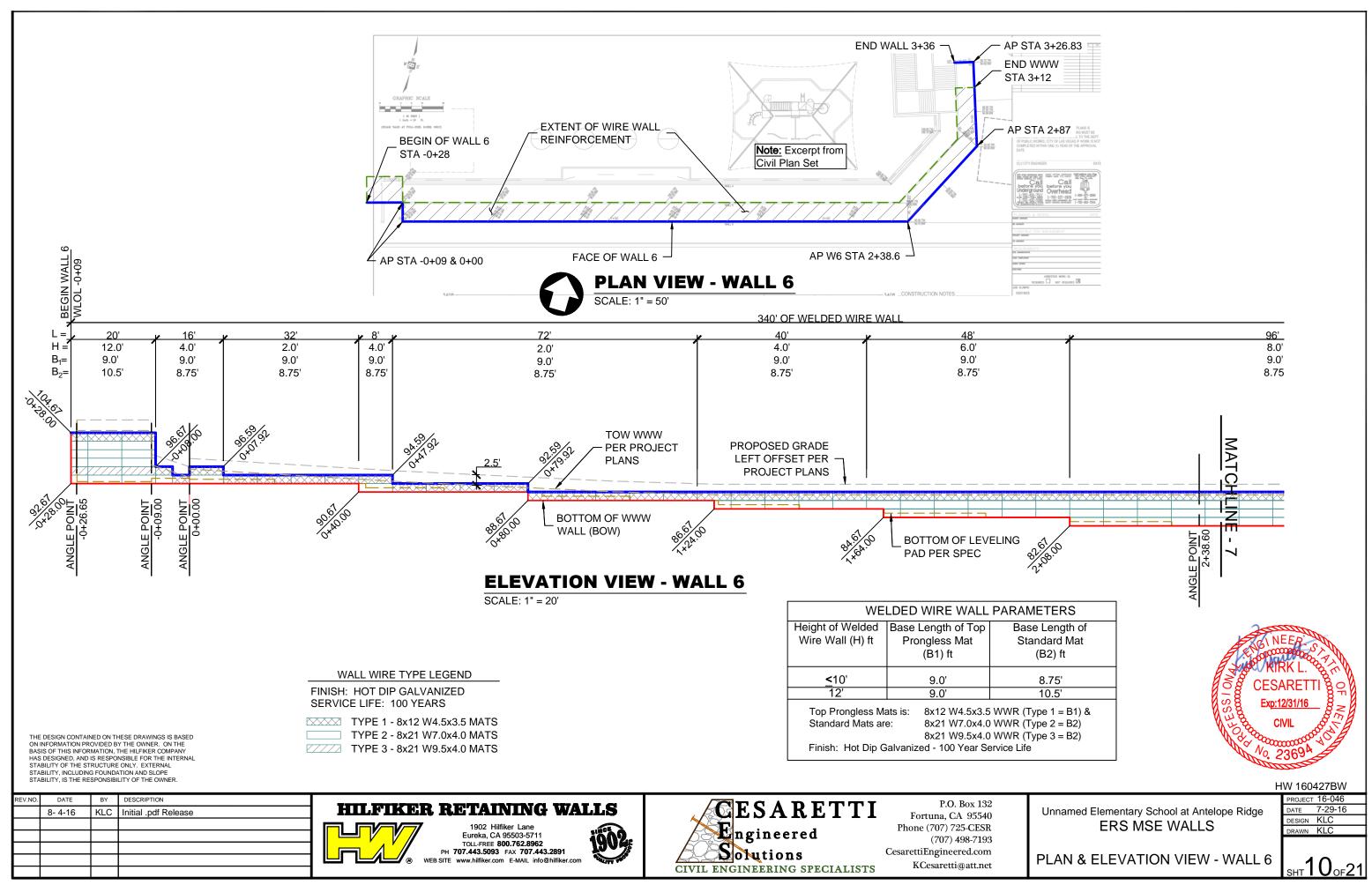
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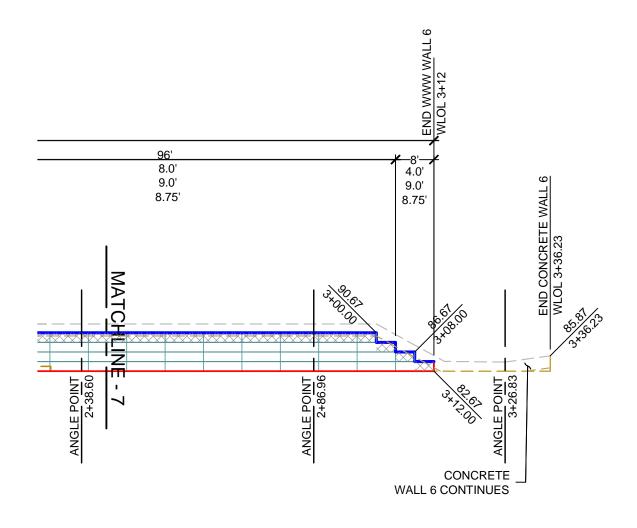
ATE **7-29-16** DESIGN KLC DRAWN KLC

SHT 8 OF 21

PLAN VIEW & ELEVATION VIEW - STAIR 4 WALLS







Top Prongless Mats is: 8x12 W4.5x3.5 WWR (Type 1 = B1) & Standard Mats are: 8x21 W7.0x4.0 WWR (Type 2 = B2) 8x21 W9.5x4.0 WWR (Type 3 = B2) Finish: Hot Dip Galvanized - 100 Year Service Life

ELEVATION VIEW (CONT'D) - WALL 6

SCALE: 1" = 20'

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WALL WIRE TYPE LEGEND

TYPE 1 - 8x12 W4.5x3.5 MATS

TYPE 3 - 8x21 W9.5x4.0 MATS

TYPE 2 - 8x21 W7.0x4.0 MATS

FINISH: HOT DIP GALVANIZED SERVICE LIFE: 100 YEARS

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Unnamed Elementary School at Antelope Ridge ERS MSE WALLS

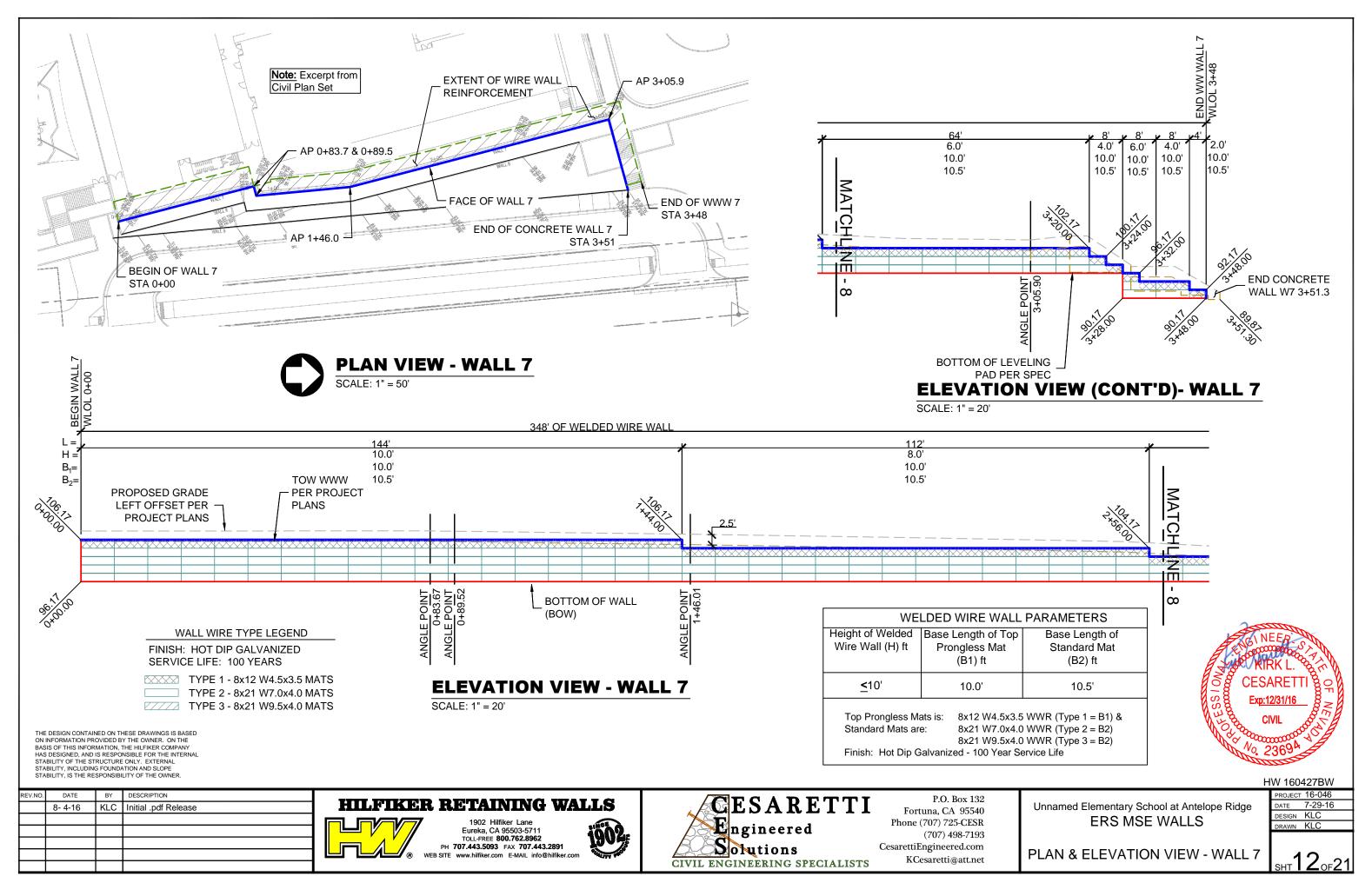
PROJECT 16-046

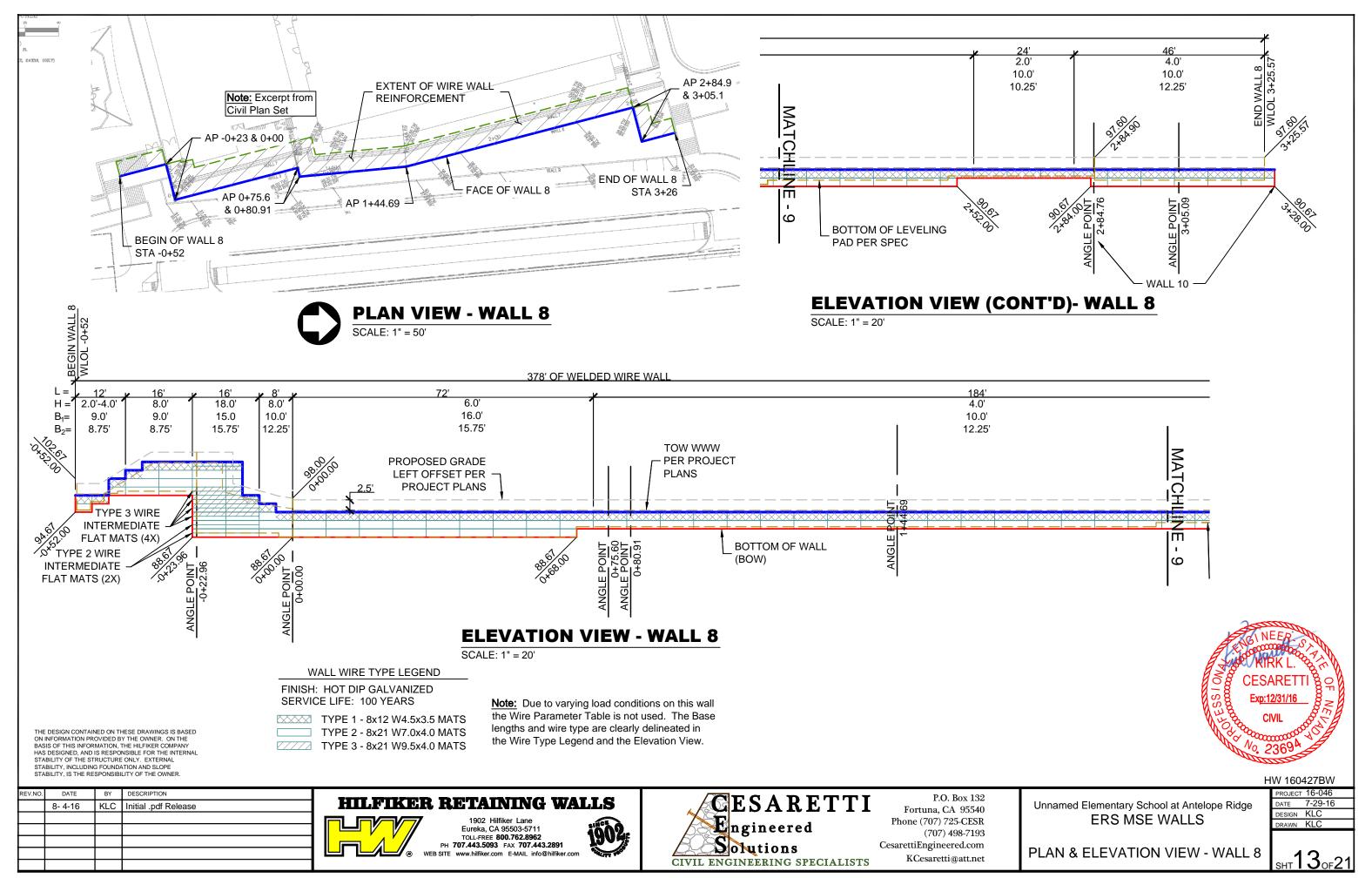
DATE 7-29-16

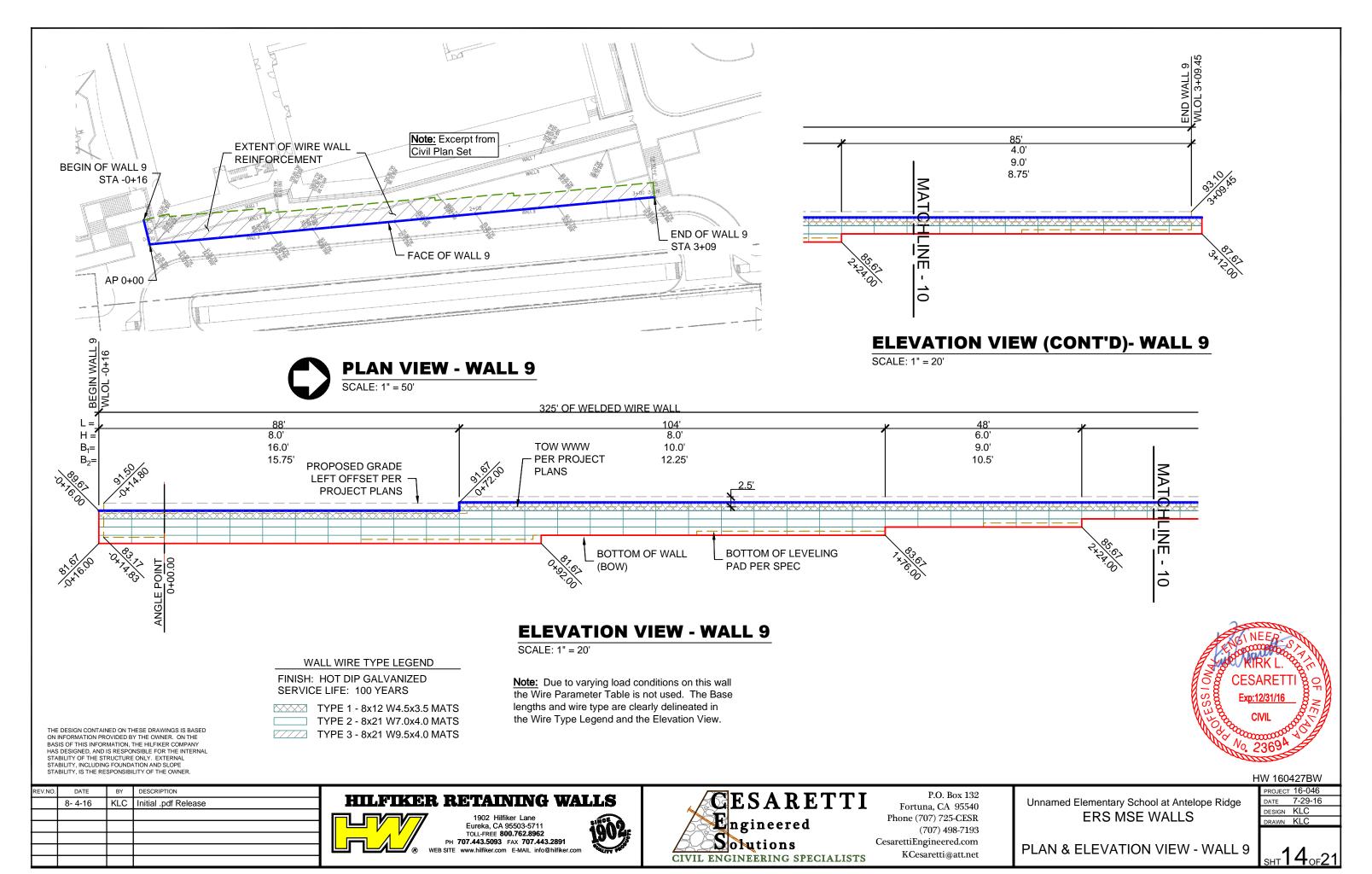
DESIGN KLC

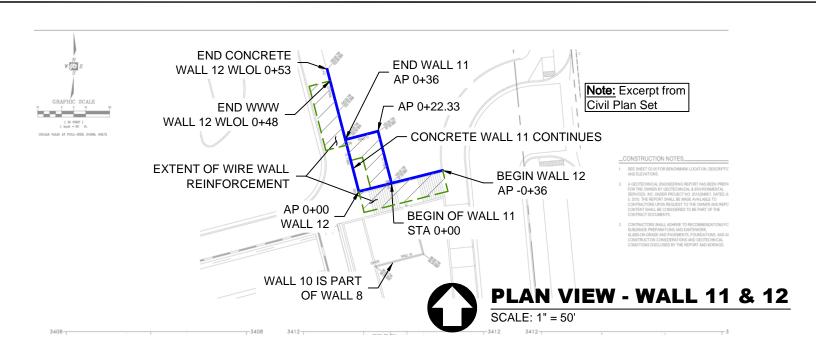
DRAWN KLC

ELEVATION VIEW (CONT'D) - WALL 6









WELDED WIRE WALL PARAMETERS				
Height of Welded Wire Wall (H) ft	Base Length of Top Prongless Mat (B1) ft	Base Length of Standard Mat (B2) ft		
<u>≤</u> 10'	9.0'	8.75'		

Top Prongless Mats is: 8x12 W4.5x3.5 WWR (Type 1 = B1) & Standard Mats are: 8x21 W7.0x4.0 WWR (Type 2 = B2))
Finish: Hot Dip Galvanized - 100 Year Service Life

WALL WIRE TYPE LEGEND

FINISH: HOT DIP GALVANIZED SERVICE LIFE: 100 YEARS

TYPE 1 - 8x12 W4.5x3.5 MATS

TYPE 2 - 8x21 W7.0x4.0 MATS

TYPE 3 - 8x21 W9.5x4.0 MATS

36' OF WWW PROPOSED GRADE 8.0' TOW WWW H = - LEFT OFFSET PER PER PROJECT 9.0' B₁= PROJECT PLANS 8.75' **PLANS** <u>E POINT</u> 0+22.33 **BOTTOM OF LEVELING BOTTOM OF WALL** PAD PER SPEC (BOW)

ELEVATION VIEW - WALL 11

SCALE: 1" = 20'

PROPOSED GRADE LEFT OFFSET PER PROJECT PLANS 28' OF WWW 36' OF WWW **CONCRETE WALL 12** CONTINUES H = 4.0'6.0' 10.0' 6.0' 2.0' 4.0 $B_1 = 9.0'$ 9.0' 9.0' 9.0' 9.0' 9.0' 8.75' 8.75' $B_2 = 8.75$ 8.75' 8.75' 8.75' **BOTTOM OF WALL** (BOW) **CONCRETE WALL 12 CONTINUES BOTTOM OF LEVELING** PAD PER SPEC

ELEVATION VIEW - WALL 12

SCALE: 1" = 20'

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Eureka, CA 95503-5711
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PH 707.443.5093 FAX 707.443.2891
WEB SITE www.hilfiker.com E-MAIL info@hilfiker.com



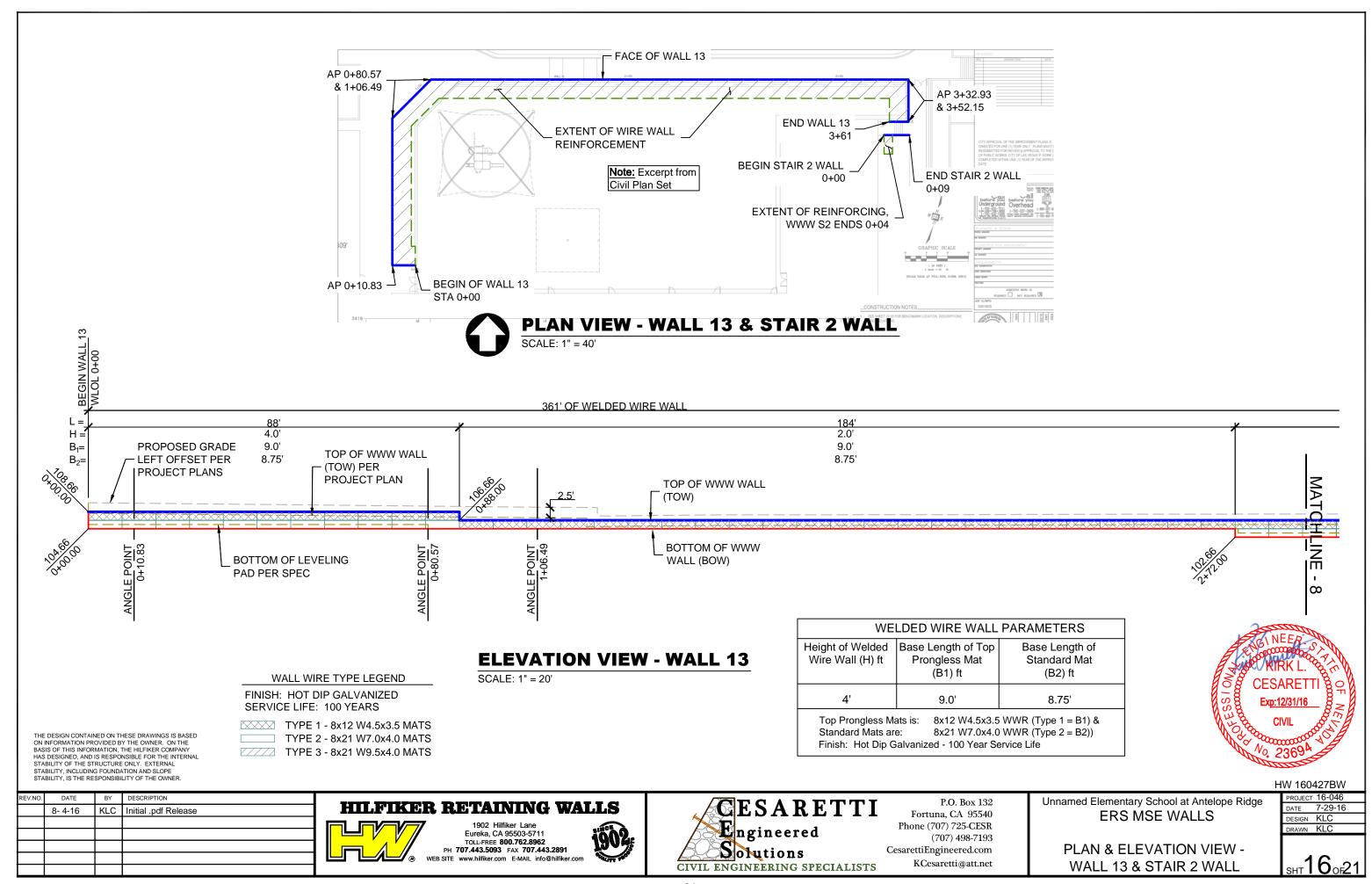
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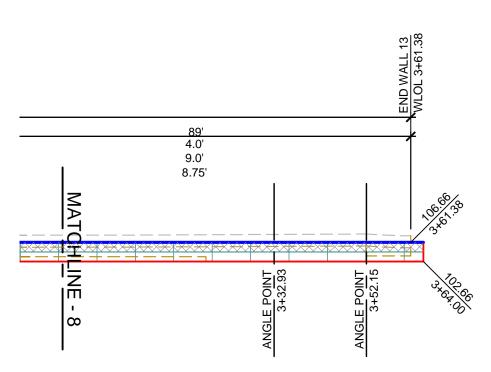
Unnamed Elementary School at Antelope Ridge ERS MSE WALLS

PLAN & ELEVATION VIEW -WALLS 11 & 12

HW 160427BW				
	PROJECT	16-046		
	DATE	7-29-16		
	DESIGN	KLC		
	DRAWN	KLC		

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ELEVATION VIEW (CONT'D)- WALL 13

SCALE: 1" = 20'

WALL WIRE TYPE LEGEND

FINISH: HOT DIP GALVANIZED SERVICE LIFE: 100 YEARS

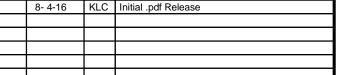
TYPE 1 - 8x12 W4.5x3.5 MATS

TYPE 2 - 8x21 W7.0x4.0 MATS

TYPE 3 - 8x21 W9.5x4.0 MATS

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BY DESCRIPTION





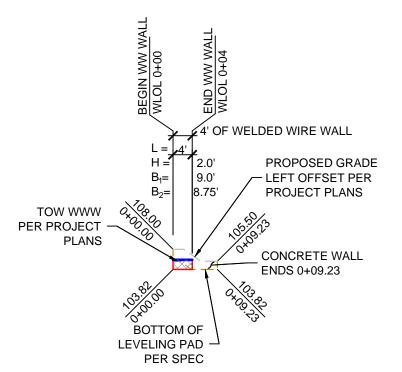
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ELEVATION VIEW -WALLS 13 & STAIR 2 WALL



ELEVATION VIEW - STAIR 2 WALL

SCALE: 1" = 20'

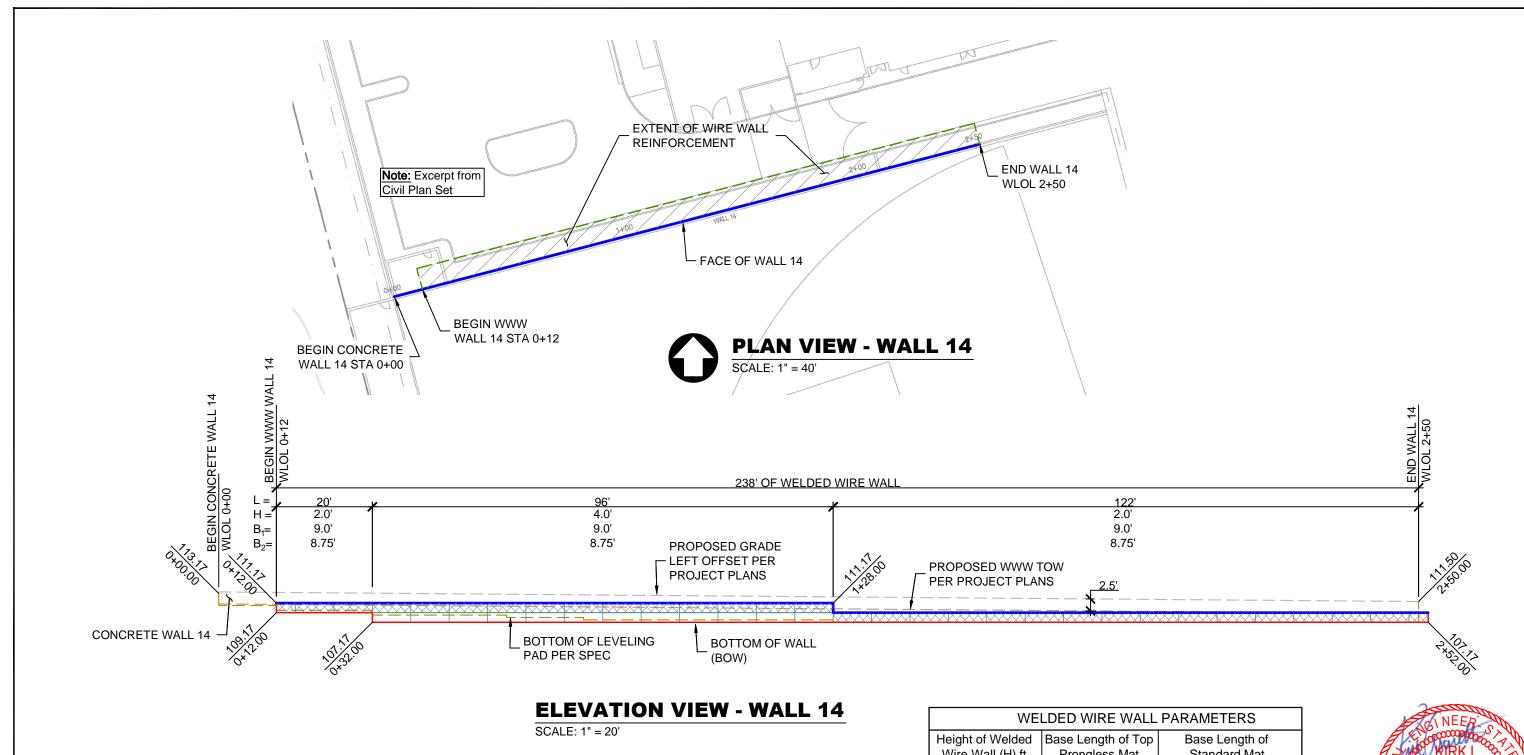
WELDED WIRE WALL PARAMETERS			
Height of Welded Wire Wall (H) ft	Base Length of Top Prongless Mat (B1) ft	Base Length of Standard Mat (B2) ft	
4'	9.0'	8.75'	

Top Prongless Mats is: 8x12 W4.5x3.5 WWR (Type 1 = B1) & 8x21 W7.0x4.0 WWR (Type 2 = B2)) Standard Mats are: Finish: Hot Dip Galvanized - 100 Year Service Life



РКОЈЕСТ 16-046 DATE 7-29-16 DESIGN KLC DRAWN KLC

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WALL WIRE TYPE LEGEND FINISH: HOT DIP GALVANIZED SERVICE LIFE: 100 YEARS

TYPE 1 - 8x12 W4.5x3.5 MATS

TYPE 2 - 8x21 W7.0x4.0 MATS TYPE 3 - 8x21 W9.5x4.0 MATS

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TOLL-FREE **800.762.8962**

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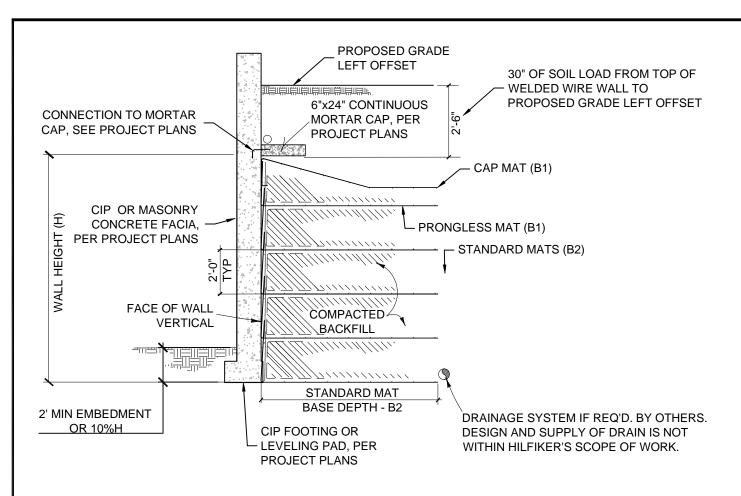




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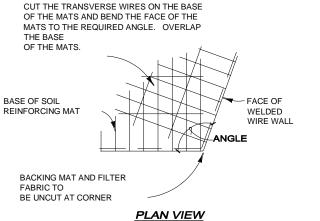
PLAN & ELEVATION VIEW -WALLS 14

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	PROJECT	16-046						
	DATE	7-29-16						
	DESIGN	KLC						
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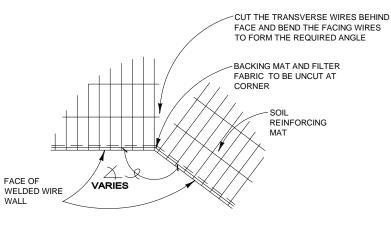
CROSS SECTION (TYP)

SCALE: 1" = 20'

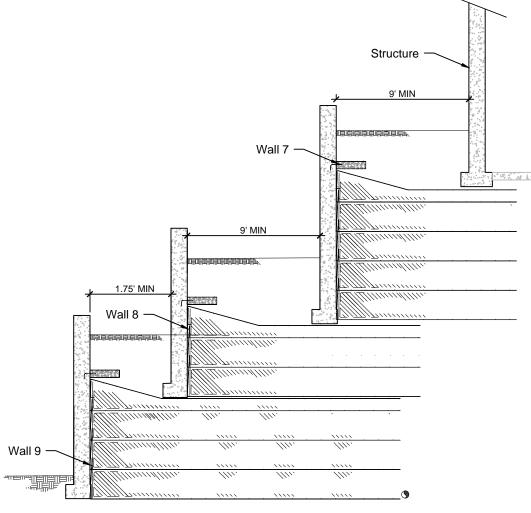


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PLAN VIEW **CONCAVE ANGLE DETAIL** NOT TO SCALE



CROSS SECTION - WALLS 7, 8 & 9

SCALE: 1" = 20'



HW 160427BW

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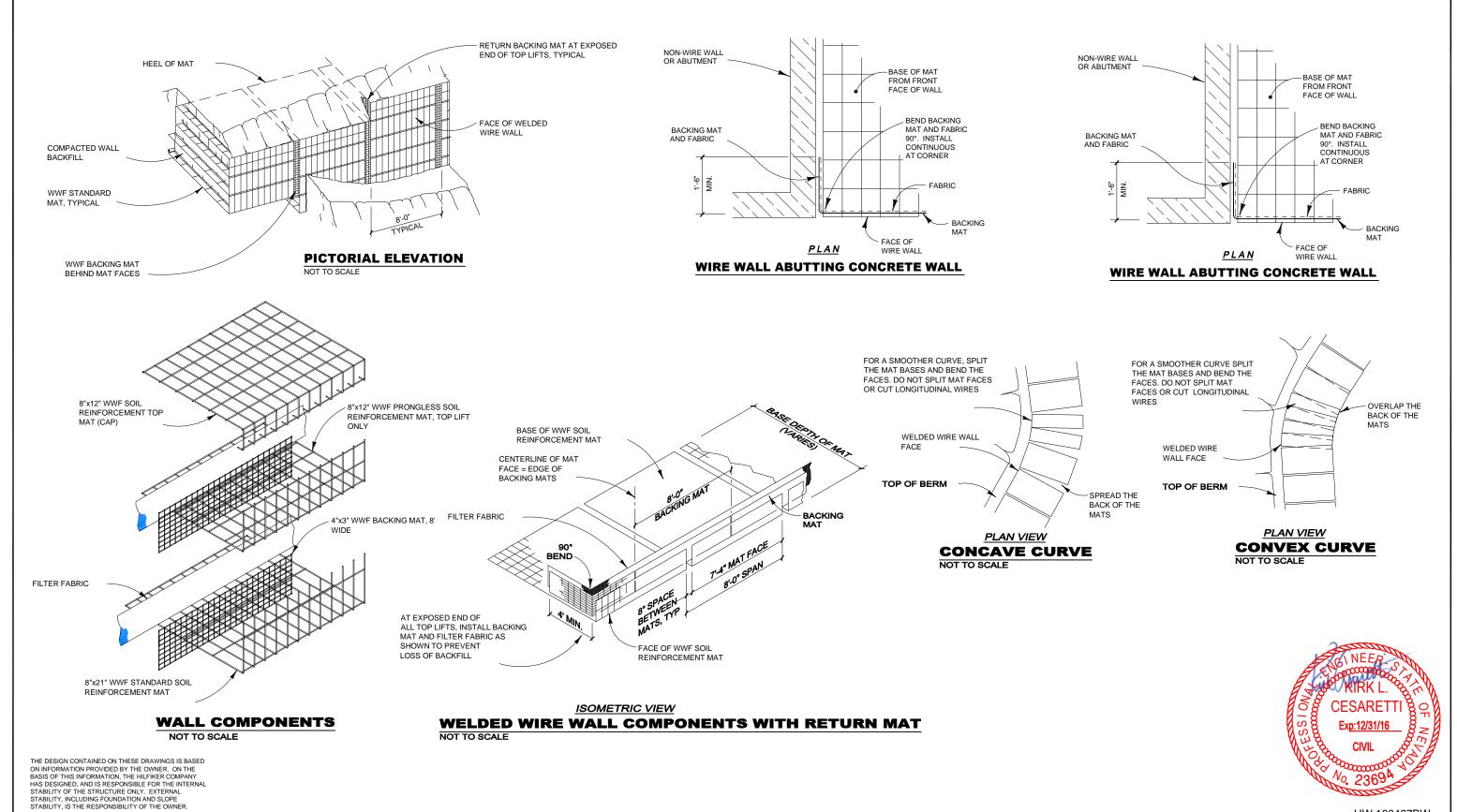
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Unnamed Elementary School at Antelope Ridge **ERS MSE WALLS**

CROSS SECTIONS

PROJECT 16-046 DATE **7-29-16** DESIGN KLC DRAWN KLC

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Unnamed Elementary School at Antelope Ridge

ERS MSE WALLS

CONSTRUCTION SEQUENCE

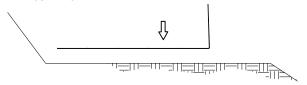
HW 160427BW

| PROJECT 16-046 |
| DATE 7-29-16 |
| DESIGN KLC |
| DRAWN KLC |

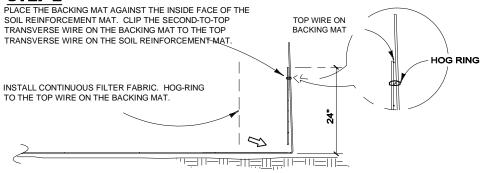
JOHON SEQUENCE

STEP 1

PLACE THE FIRST COURSE OF SOIL REINFORCEMENT MATS ON PREPARED FOUNDATION



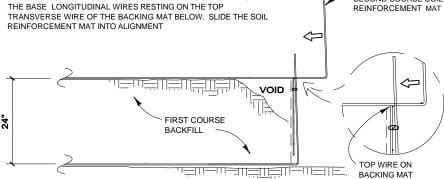
STEP 2



STEP 3

PLACE AND COMPACT THE BACKFILL IN LAYERS AND DENSITIES AS SPECIFIED IN THE PROJECT PLANS. LEAVE A VOID AT THE FACE AS

PLACE THE SECOND COURSE OF SOIL REINFORCEMENT MATS WITH THE BASE LONGITUDINAL WIRES RESTING ON THE TOP



STEP 4

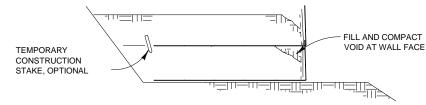
HOOK THE BOTTOM TRANSVERSE WIRE OF THE BACKING MAT OVER THE VERTICAL PRONGS ON THE LOWER MAT. ROTATE THE BACKING MAT TO VERTICAL AND CLIP THE SECOND-TO-TOP TRANSVERSE WIRE ON THE BACKING TOP WIRE ON MAT TO THE TOP WIRE ON THE SOIL REINFORCEMENT **BACKING MAT** HOG RING FIRST COURSE

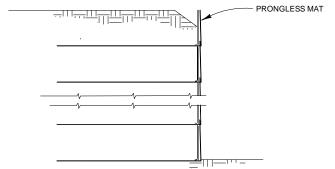
STEP 5

INSTALL FILTER FABRIC BEHIND THE BACKING MATS.

PLACE AND COMPACT THE BACKFILL TO THE BASE ELEVATION OF THE NEXT MAT.

REPEAT STEPS 3 THRU 5 TO THE TOP LIFT.





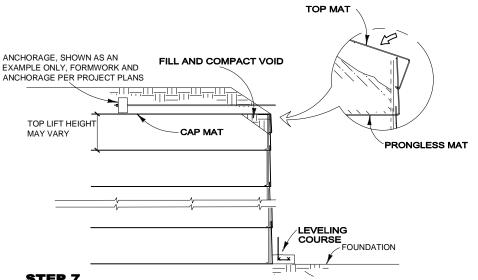
STEP 6

PLACE THE TOP LIFT PRONGLESS MAT, BACKING MAT AND FILTER FABRIC.

CUT OFF HEIGHT OF PRONGLESS MAT FACE AND FILTER FABRIC, IF REQUIRED, TO PARALLEL FINISHED

PLACE AND COMPACT THE BACKFILL IN THE PRONGLESS MAT LIFT.

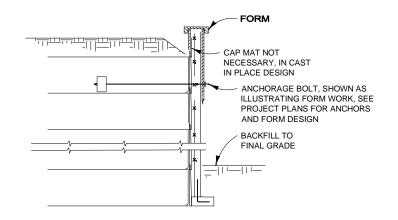
ERS RETAINING WALL CONSTRUCTION SEQUENCE NOT TO SCALE



STEP 7

INSTALL THE CAP MAT OVER THE COMPACTED BACKFILL. INSTALL THE PANEL ANCHORAGES PER PROJECT PLANS. BACKFILL TO 2'-6" COVER OVER THE TOP MAT, PER PROJECT PLANS.

FORM THE LEVELING COURSE AS SHOWN IN THE PROJECT PLANS.



STEP 8 CASTING THE FACE

- ATTACH THE FORMS TO THE FACE ANCHOR BOLTS PER PROJECT PLANS.
- CAST CONCRETE AS SHOWN IN PROJECT PLANS.
- STRIP FORMS AND BACKFILL AT TOE TO FINAL GRADE.
- FINISH TOP OF WALL PER PROJECT PLANS.

STEP 8

FINISH THE TOP OF THE WALL PER PROJECT PLANS.



REV.	NO.	DATE	BY	DESCRIPTION
		8- 4-16	KLC	Initial .pdf Release

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

HILFIKER RETAINING WALLS

SECOND COURSE SOIL





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Unnamed Elementary School at Antelope Ridge

ERS MSE WALLS

CONSTRUCTION SEQUENCE

HW 160427BW ROJECT 16-046 DATE **7-29-16** DESIGN KLC DRAWN KLC