DESIGN NOTES

1. Design is based on the soil parameters in the Project Geotechnical Report with following Characteristics:

   Wall Backfill:
   - Unit Weight: 125 pcf
   - Internal Friction Angle: 34°
   - Cohesion = 0 psf

   Retained Backfill:
   - Unit Weight: 125 pcf
   - Segment 1 - Internal Friction Angle: 32°
   - Segment 2 - Internal Friction Angle: 36°
   - Cohesion = 0 psf

   Foundation Soils:
   - Unit Weight: 125 pcf
   - Internal Friction Angle: 36°
   - Cohesion = 0 psf

   Traffic Surcharge Loading (LL) = 250 psf

   SN - Retained Existing Soils
   - Unit Weight: 125 pcf
   - Internal Friction Angle: 36°
   - Cohesion = 300 psf
   - Bond Stress = 7 psi

Worst Case Factored Bearing Load by MSE Wall- @ 18' Height - 4325 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:
   AASHTO LRFD Bridge Design Manual.

   Spiralnail Wall Design Procedure:
   Geotechnical Engineering Circular No. 7 - Soil Nail Walls
   FHWA Report No. FHWA0-IF-03-017.

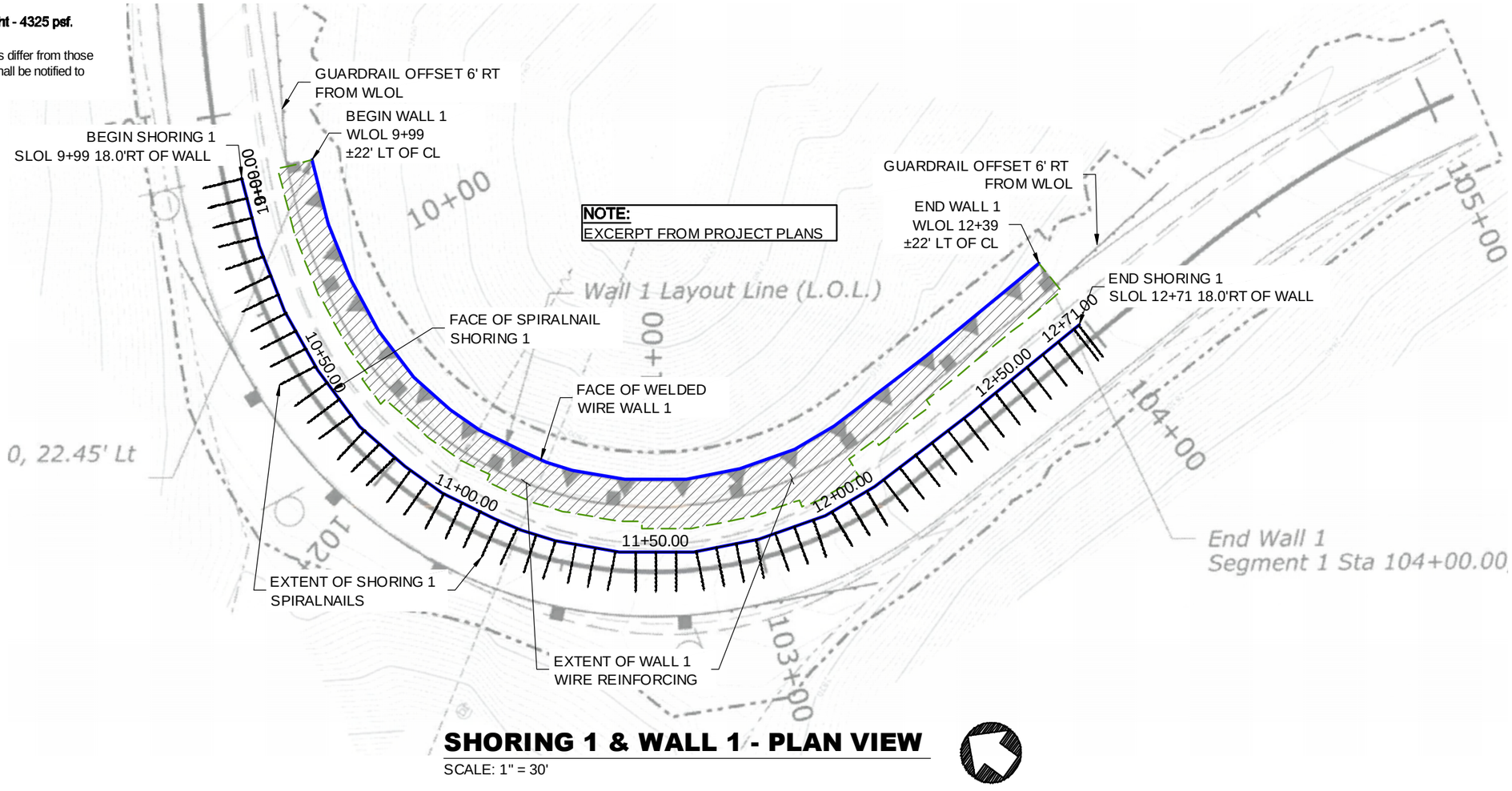
6. All information hereon is derived from the reference drawings, and is subject to geometric and geotechnical confirmation. The applicable Hilfiker construction guide and specifications are an integral part of this submittal.

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 Owner shall be responsible for global stability and foundation competence. The Owner is responsible for all job site drainage, safety and fall protection provisions for workers in compliance with OSHA and any other applicable requirements.

8. Conflicts between the actual ground conditions and shoring obstructions are resolved in the field by any combination of the following:
   a) Trimming the wall panel wires and or bending vertical & horizontal wires to accommodate the penetration through the facing.
   c) Slight Re-oriention of the spiralnail angle or direction. If re-orientation of the nails is more than one foot from the planned location, confirmation of the change shall be approved by CES.

ESTIMATED QUANTITIES	
10'L - SPIRALNAILS	198
19'L - SPIRALNAILS	116
FLAT MATS	60

ESTIMATED QUANTITIES	
WALL NO.	FACE AREA
WALL 1	2,984 SQ. FT.
WALL 2	640 SQ. FT.
WALL 3	1,304 SQ. FT.
TOTALS	4,928 SQ. FT.



SHORING 1 & WALL 1 - PLAN VIEW

SCALE: 1" = 30'

HW 2103020BW

REV.NO.	DATE	BY	DESCRIPTION
	5-10-21	KLC	Initial .pdf Release
	6-11-21	KLC	Revised per 5.19.21 Plan Check Comments

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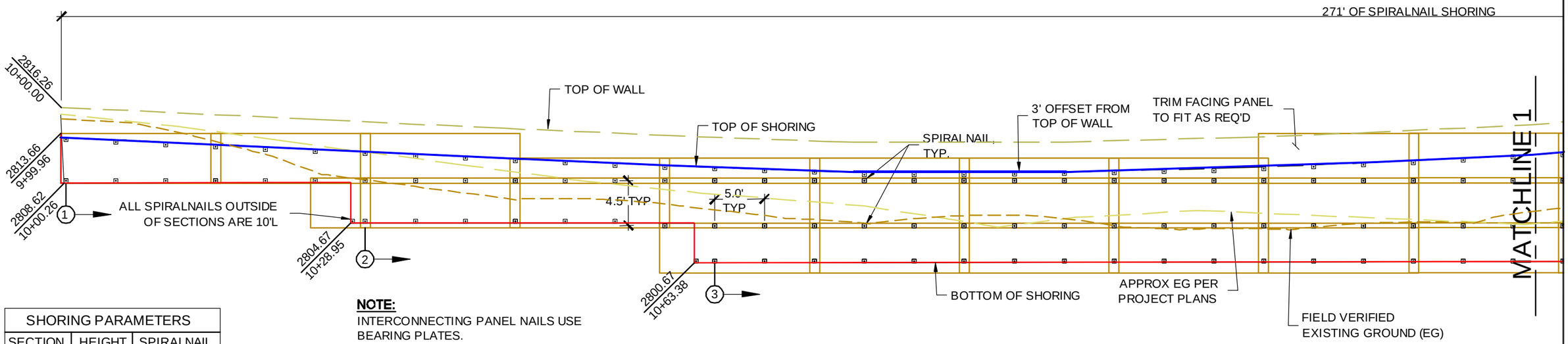
Ruth Zenia Road & Van Duzen Road, CA FLAP TRI
CR 502(1) & 511(1)
MSE WELDED WIRE WALL 1 & SPIRALNAIL SHORING 1
PLAN VIEW & GENERAL NOTES

PROJECT	21-013
DATE	5-10-21
DESIGN	KLC
DRAWN	KLC

SHT 1 OF 11



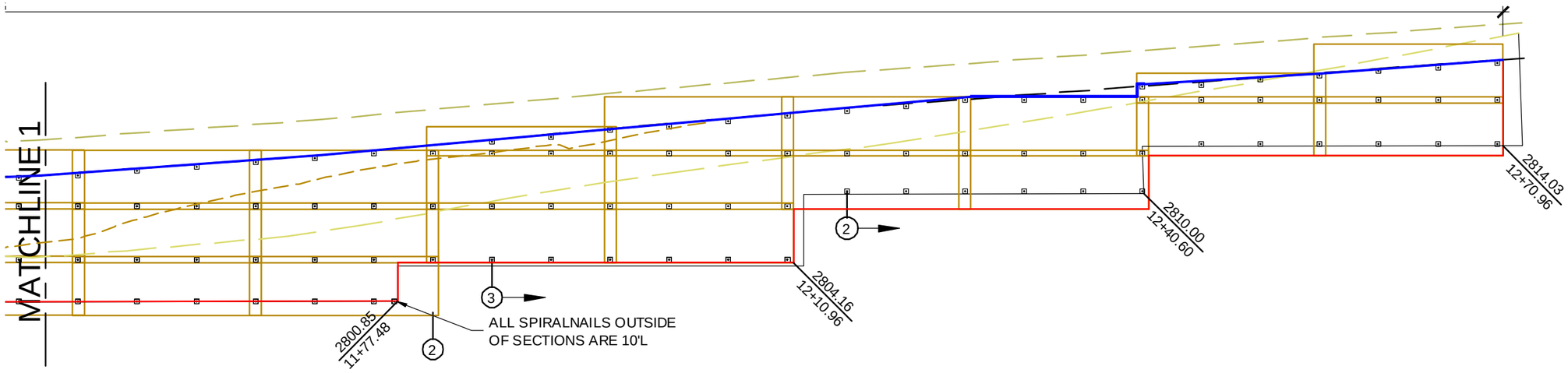
SHORING PARAMETERS		
SECTION	HEIGHT	SPIRALNAIL
1	5.0'	2 - 10'L
2	9.0'	3 - 10'L
3	14.0'	4 - 19'L

NOTE:
INTERCONNECTING PANEL NAILS USE BEARING PLATES.
TOP, BOTTOM AND NON-INTERCONNECTING PANEL NAILS USE WASHER PLATES.

SHORING 1 - ELEVATION (REAR) VIEW

SCALE: 1" = 10'

NOTE:
TOP & BOTTOM SPIRALNAILS ARE INCLINED 15°, EXCEPT WHERE OTHERWISE NOTED.



SHORING 1 - ELEVATION (REAR) VIEW (CONT'D)

SCALE: 1" = 10'

HW 2103020BW

REV.NO.	DATE	BY	DESCRIPTION
	5-10-21	KLC	Initial .pdf Release
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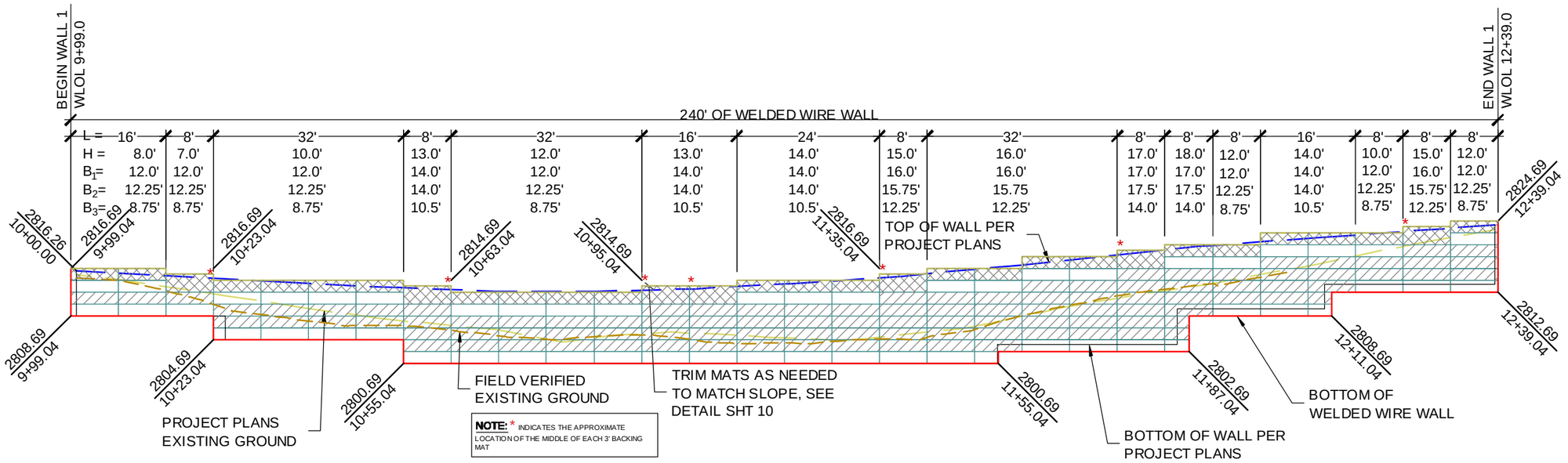
SPIRALNAIL SHORING 1
ELEVATION VIEW

PROJECT	21-013
DATE	5-10-21
DESIGN	KLC
DRAWN	KLC

SHT 2 OF 11



WALL 1 - ELEVATION (REAR) VIEW

SCALE: 1" = 10'

WALL WIRE TYPE LEGEND

FINISH: HOT DIP GALVANIZED
SERVICE LIFE: 75 YEARS

- TYPE 1 - 8X12 W4.5x3.5 MATS
- TYPE 2 - 8x21 W4.5x4.0 MATS
- TYPE 3 - 8x21 W7.0x4.0 MATS

WELDED WIRE WALL PARAMETERS			
Height of Wall (H) ft	Length of Cap & Prongless Mats (B_1) ft	Base Length of Top Std Mat (B_2) ft	Base Length of Std Mats below top Std (B_3) ft
≤12'	12.0'	12.25'	8.75'
14'	14.0'	14.0'	10.5'
16'	16.0'	15.75'	12.25'
18'	17'	17.5'	14.0'

Cap & Top Mats (B1) are: 8x12 W4.5x3.5 WWR (Type 1)
Standard Mats (B2) 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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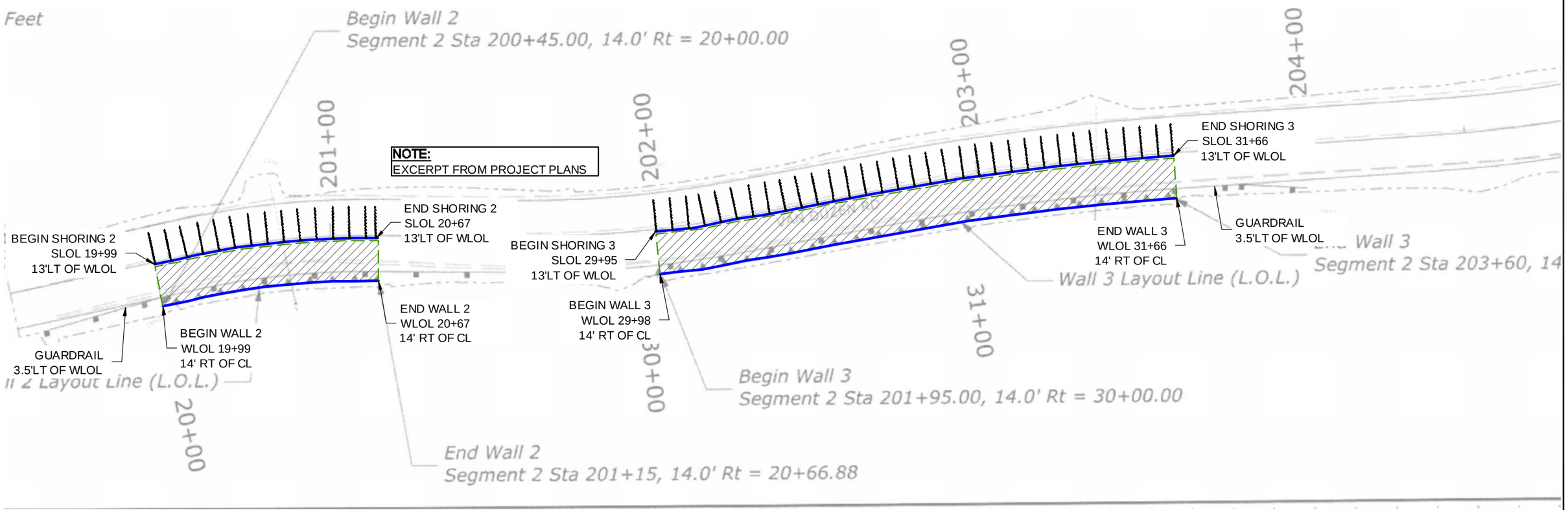
MSE WELDED WIRE WALL 1
ELEVATION VIEW

PROJECT 21-013
DATE 5-10-21
DESIGN KLC
DRAWN KLC

SHT 3 OF 11



SHORING 2 & 3 / WALL 2 & 3 - PLAN VIEW

SCALE: 1" = 30'

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.

HW 2103020BW

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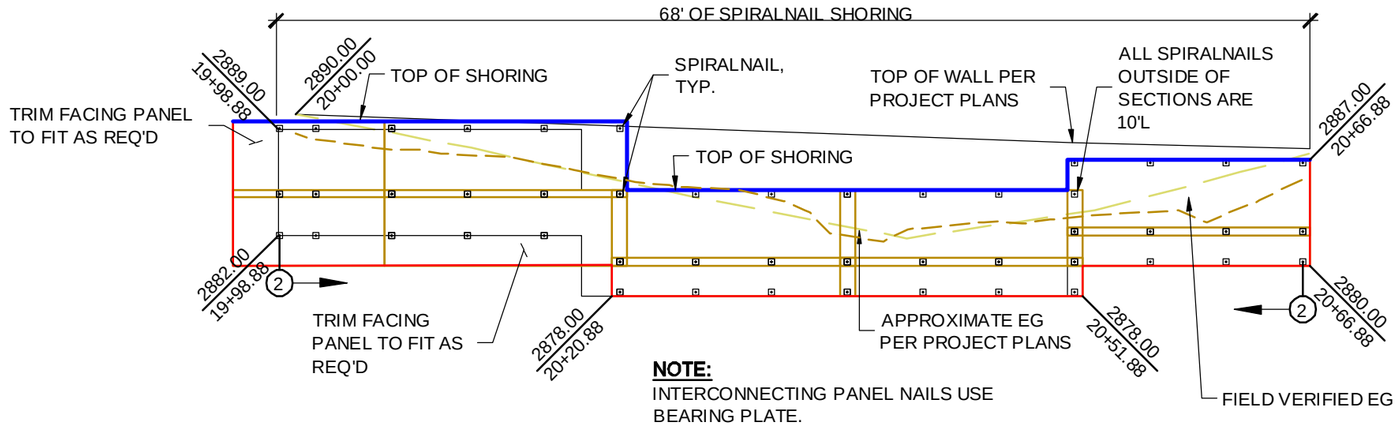
Ruth Zenia Road & Van Duzen Road, CA FLAP TRI
CR 502(1) & 511(1)
MSE WELDED WIRE WALLS 2&3 / SPIRALNAIL SHORING 2&3
PLAN VIEW

PROJECT 21-013
DATE 5-10-21
DESIGN KLC
DRAWN KLC
SHT 4 OF 11



NOTE:
INTERCONNECTING PANEL NAILS USE BEARING PLATE.
TOP, BOTTOM AND NON-INTERCONNECTING PANEL NAILS USE WASHER PLATE

SHORING PARAMETERS		
SECTION	HEIGHT	SPIRALNAIL
1	5.0'	2 - 10'L
2	9.0'	3 - 10'L
3	14.0'	4 - 19'L

NOTE:
TOP & BOTTOM SPIRALNAILS ARE INCLINED 15°, EXCEPT WHERE OTHERWISE NOTED.

SHORING 2 - ELEVATION (FRONT) VIEW

SCALE: 1" = 10'

HW 2103020BW

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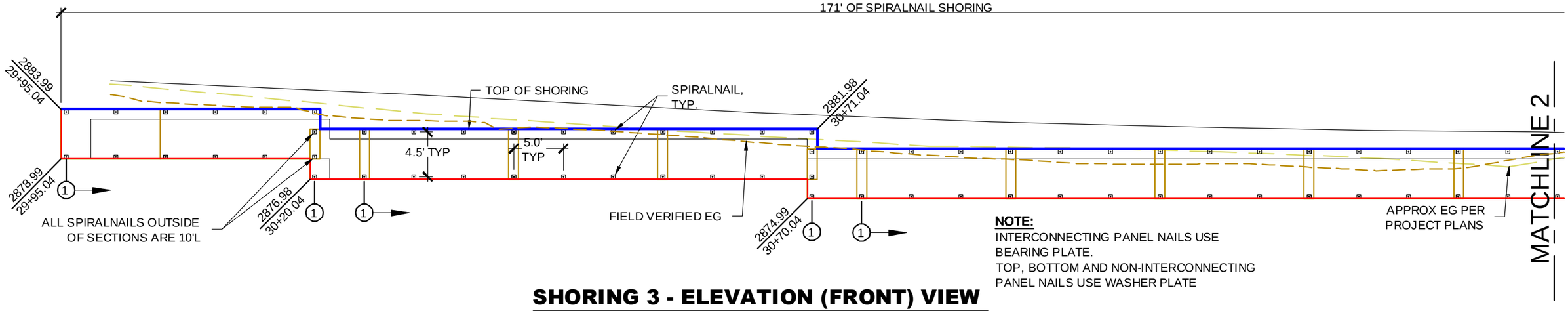
SPIRALNAIL SHORING 2
ELEVATION VIEW

PROJECT 21-013
DATE 5-10-21
DESIGN KLC
DRAWN KLC

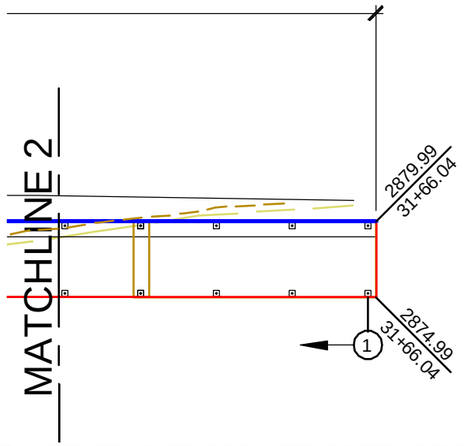
SHT 5 OF 11



NOTE:
INTERCONNECTING PANEL NAILS USE BEARING PLATE.
TOP, BOTTOM AND NON-INTERCONNECTING PANEL NAILS USE WASHER PLATE

SHORING 3 - ELEVATION (FRONT) VIEW

SCALE: 1" = 10'



SHORING PARAMETERS		
SECTION	HEIGHT	SPIRALNAIL
1	5.0'	2 - 10'L
2	9.0'	3 - 10'L
3	14.0'	4 - 19'L

NOTE:
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SHORING 3 - ELEVATION (FRONT) VIEW (CONT'D)

SCALE: 1" = 10'

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SPIRALNAIL SHORING 3
ELEVATION VIEW

PROJECT 21-013
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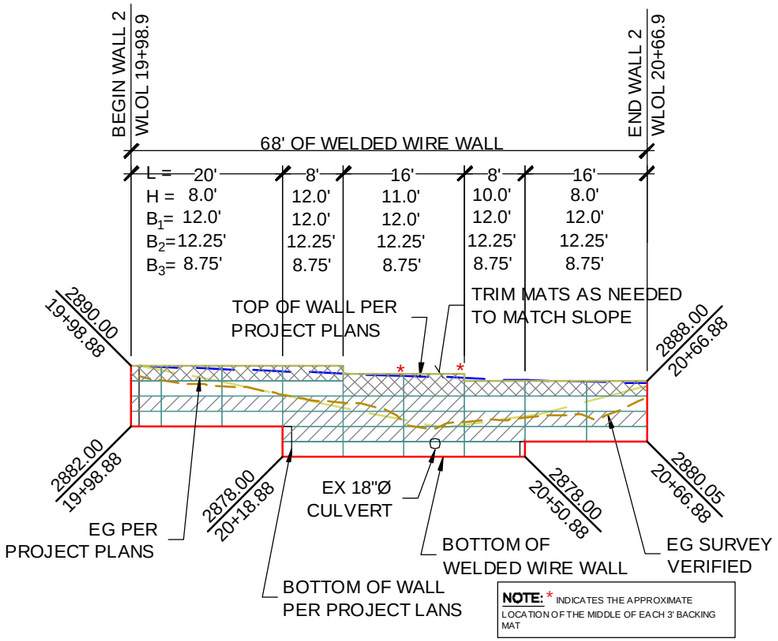
DESIGN KLC
DRAWN KLC

SHT 6 OF 11

WALL WIRE TYPE LEGEND

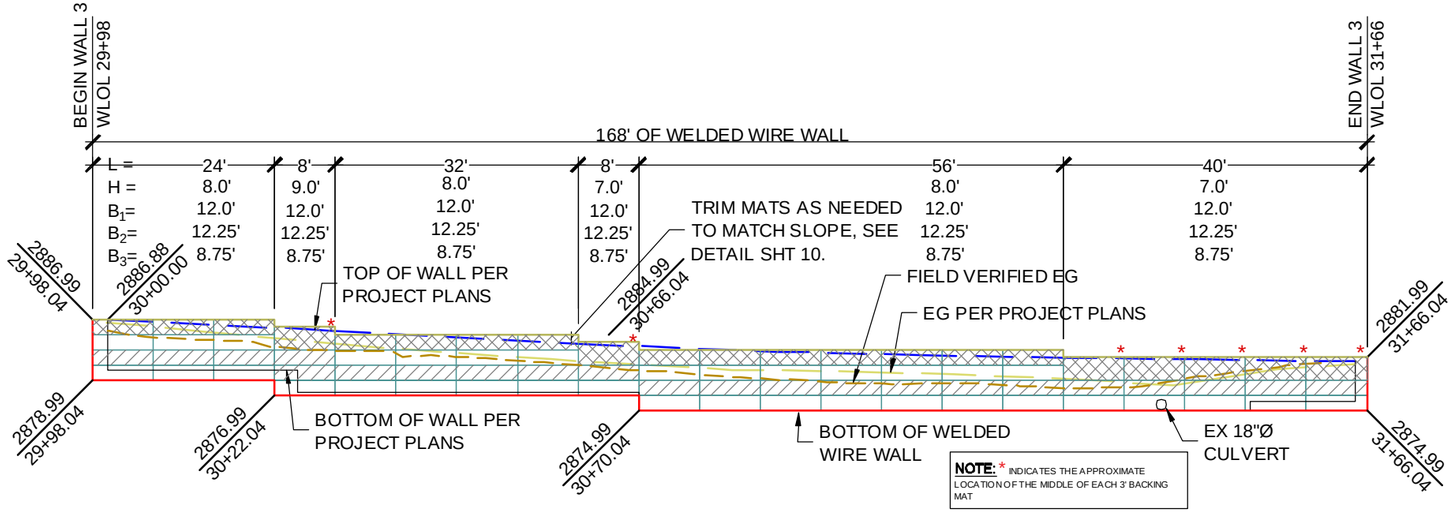
FINISH: HOT DIP GALVANIZED
SERVICE LIFE: 75 YEARS

- TYPE 1 - 8X12 W4.5x3.5 MATS
- TYPE 2 - 8x21 W4.5x4.0 MATS
- TYPE 3 - 8x21 W7.0x4.0 MATS



WALL 2 - ELEVATION (FRONT) VIEW

SCALE: 1" = 20'



WALL 3 - ELEVATION (FRONT) VIEW

SCALE: 1" = 20'

WELDED WIRE WALL PARAMETERS			
Height of Wall (H) ft	Length of Cap & Prongless Mats (B_1) ft	Base Length of Top Std Mat (B_2) ft	Base Length o Std Mats below top Std (B_3) ft
≤12'	12.0'	12.25'	8.75'
14'	14.0'	14.0'	10.5'
16'	16.0'	15.75'	12.25'
18'	17'	17.5'	14.0'

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8x21 W7.0x4.0 WWR (Type 3)

Finish: Hot Dip Galvanized - 75 Year Service Life

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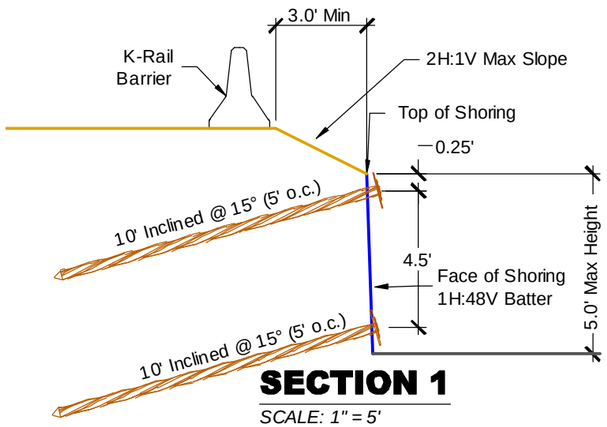
MSE WELDED WIRE WALL 2 & 3
ELEVATION VIEW

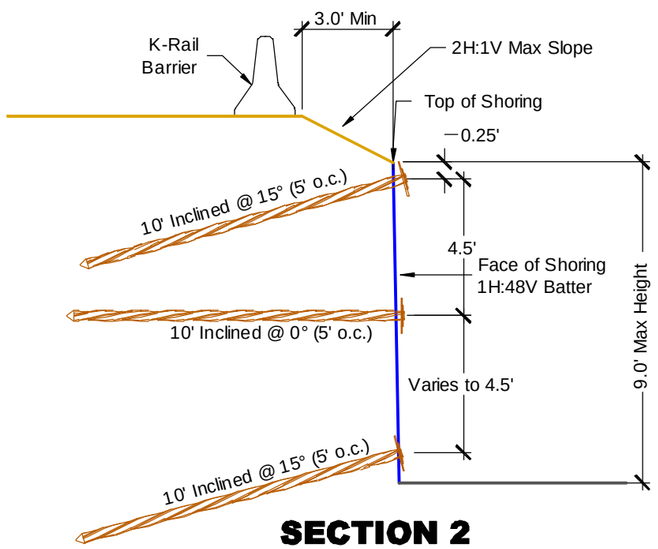
PROJECT 21-013
DATE 5-10-21
DESIGN KLC
DRAWN KLC

SHT 7 OF 11



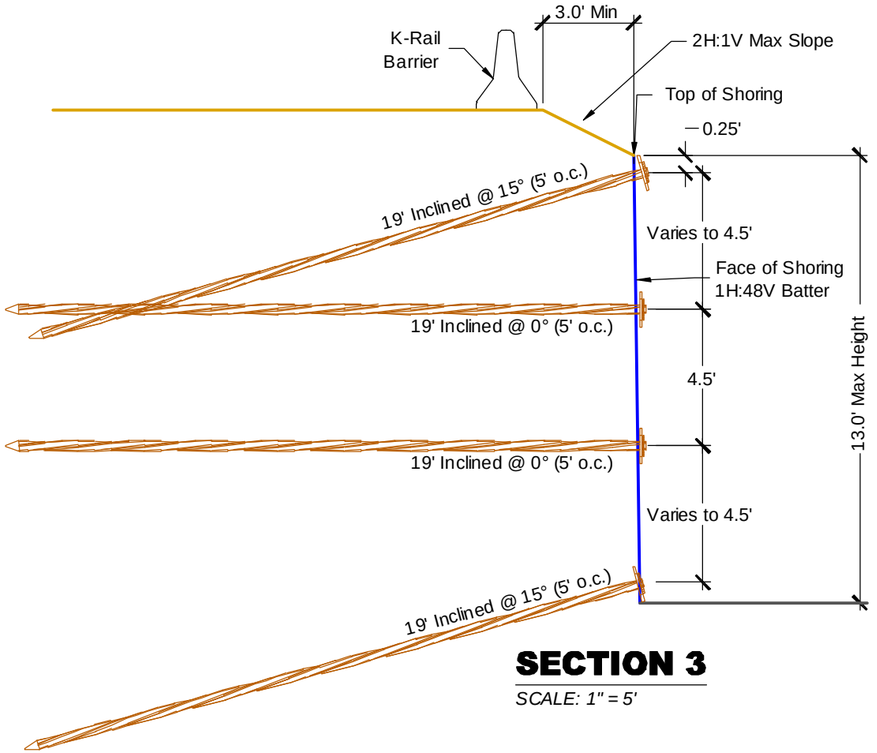
SECTION 1

SCALE: 1" = 5'



SECTION 2

SCALE: 1" = 5'



SECTION 3

SCALE: 1" = 5'

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PROJECT
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STEP 1

EXCAVATE DOWN 5' CONFIRM SOIL CAN STAND 5' ON IT OWN AND PREPARE FOR STEP 2. SEE OPEN CUT POLICY SHT 1.

STEP 2

PLACE LAYER OF FACING PANELS AND FILTER FABRIC (OR EQUIV.) TO BE USED TO PREVENT BACKFILL MATERIAL FROM SPILLAGE. IF REQ'D PLACE SAG PREVENTION CHANNEL IRON AND HAMMER TOP LEVEL SPIRALNAIL THROUGH CHANNEL IRON AND FACING PANEL.

STEP 3

DRIVE NEXT LAYER OF SPIRALNAILS THROUGH PREVIOUS LAYER OF FACING PANELS TO SECURE BOTTOM OF PANELS.

STEP 4

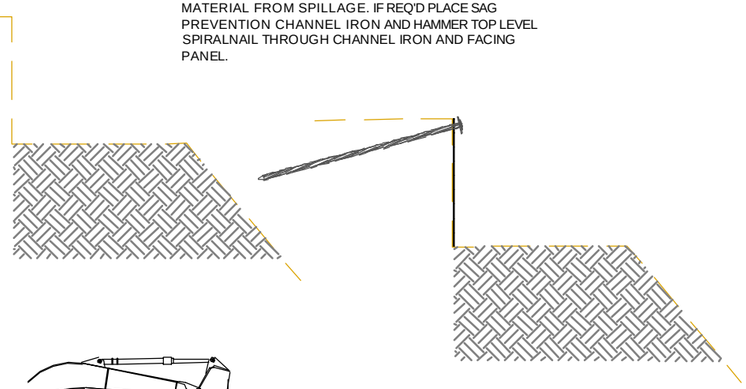
EXCAVATE DOWN AN ADDITIONAL 5' AND PLACE ANOTHER LAYER OF FACING PANELS. REPEAT STEPS 3 THROUGH 4 TO BOTTOM OF WALL SECURING FINAL LAYER OF FACING PANELS WITH THE BOTTOM LAYER OF SPIRALNAILS.

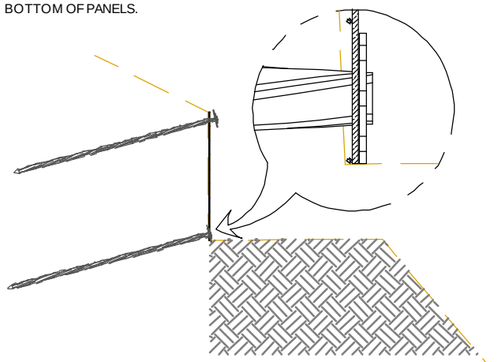
NOTE:

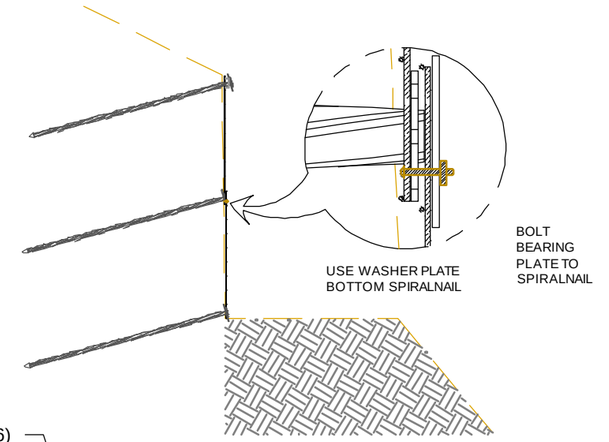
A HILFIKER REPRESENTATIVE WILL BE ON SITE DURING THE INITIAL STAGES OF CONSTRUCTION OF THE SPIRALNAIL SHORING AS WELL AS PRESENT DURING THE INITIAL PULLOUT TESTING PROCEDURE.

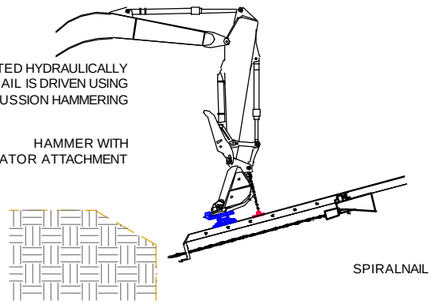
NOTE

WHERE REQ'D 1.5" Ø PILOT HOLES MAY BE DRILLED TO AVOID REFUSAL AND ASSURE INCLINATION ANGLE ACCURACY TO MINIMIZE RISK OF UNDERGROUND UTILITY DAMAGE.







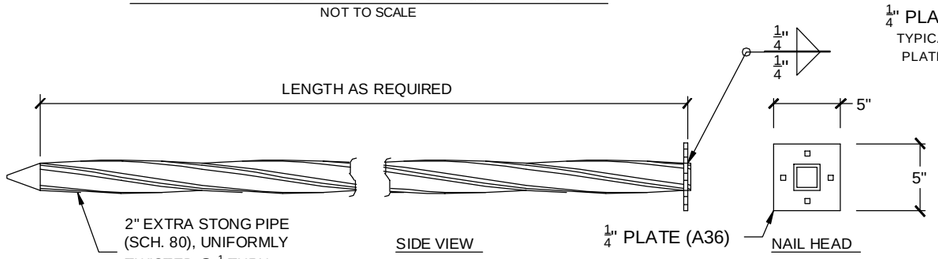


TYPICAL NAIL DRIVER SETUP

NTS

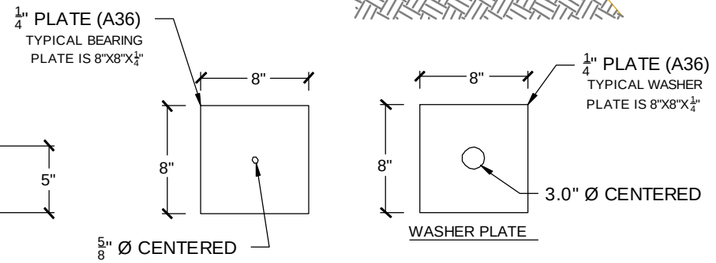
CONSTRUCTION SEQUENCE

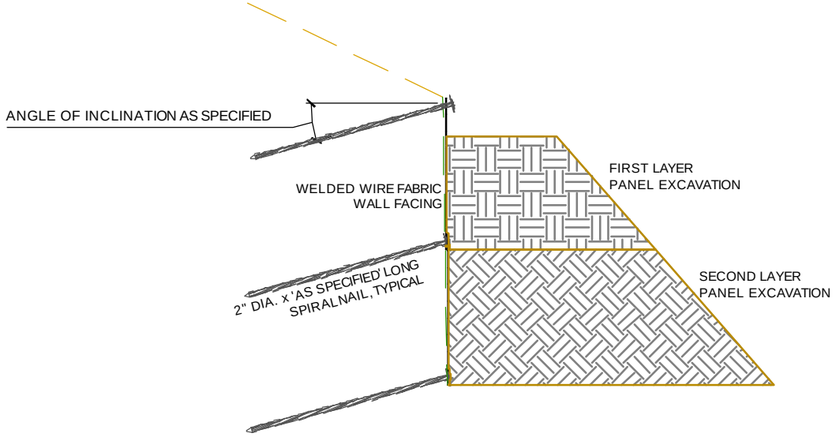
NOT TO SCALE



SPIRAL NAIL

NOT TO SCALE



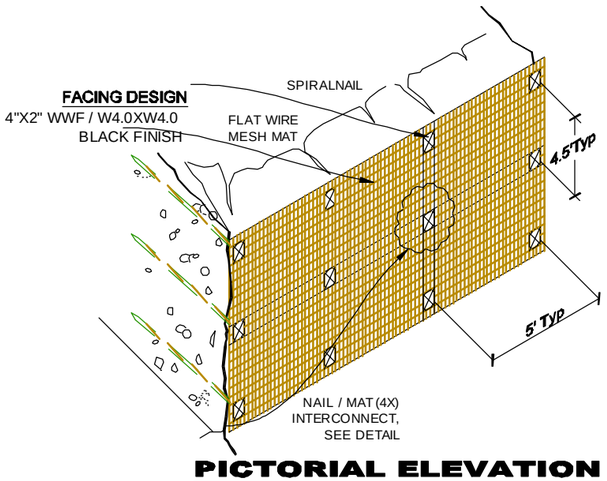


TYPICAL SECTION

SCALE: 1"=5'

FACING DESIGN

4"X2" WWF / W4.0XW4.0
BLACK FINISH



PICTORIAL ELEVATION

HW 2103020BW

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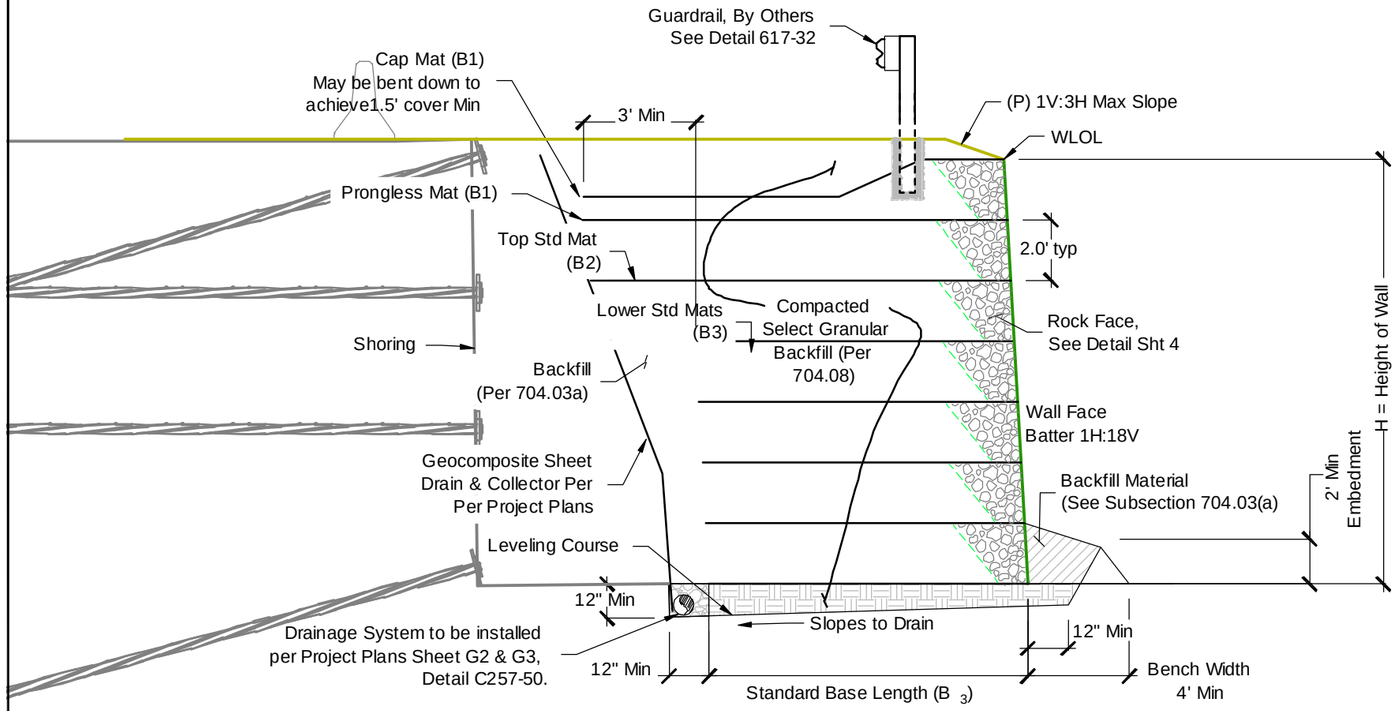
SPIRALNAIL SHORING
CONSTRUCTION SEQUENCE & DETAILS

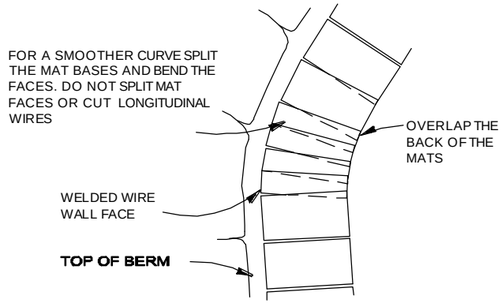
PROJECT 21-013
DATE 5-10-21
DESIGN KLC
DRAWN KLC

SHT 9 OF 12



CROSS SECTION, TYP

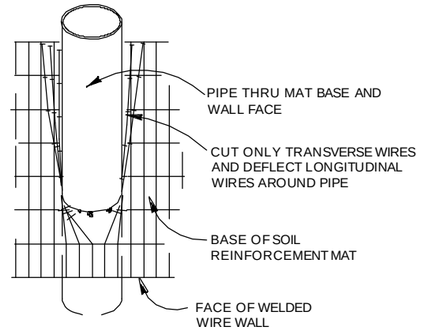
SCALE: 1" = 5'



PLAN VIEW

CONVEX CURVE

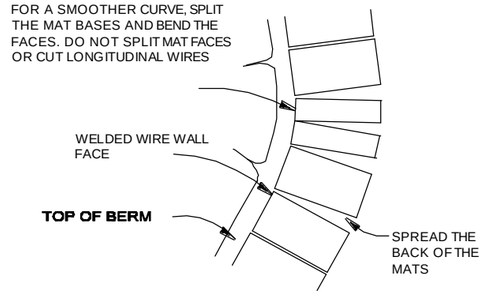
NOT TO SCALE



PLAN VIEW

PIPE OR SLEVE PENETRATION

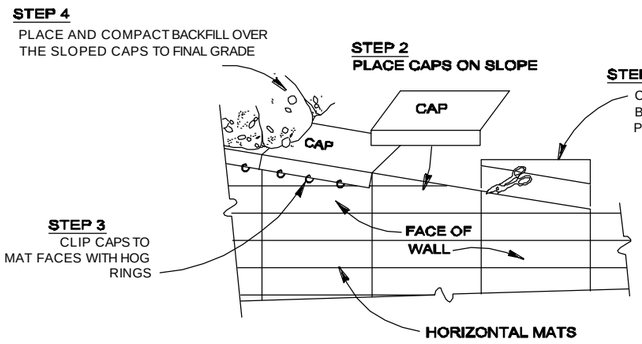
NOT TO SCALE



PLAN VIEW

CONCAVE CURVE

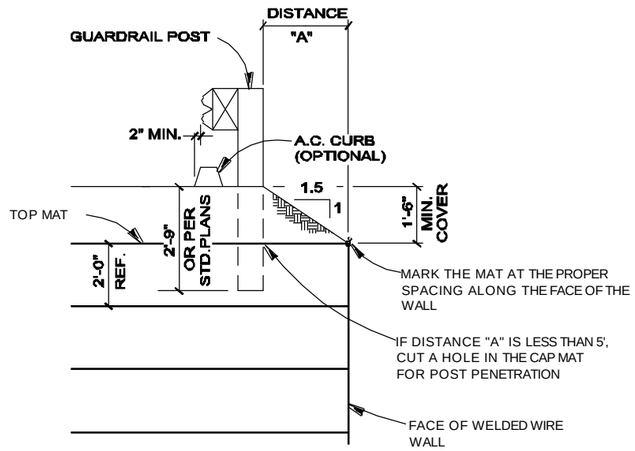
NOT TO SCALE



PICTORIAL ELEVATION

SLOPED CAP MAT DETAIL

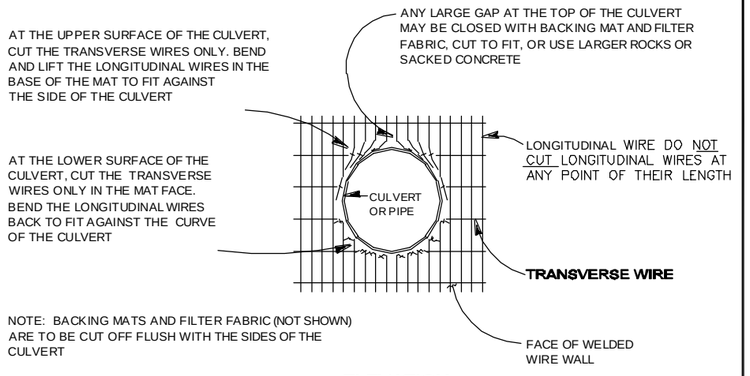
NOT TO SCALE



SECTION

GUARDRAIL DETAIL

NOT TO SCALE



ELEVATION

CULVERT THRU WALL FACE

NOT TO SCALE

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HW 2103020BW

REV.NO.	DATE	BY	DESCRIPTION
	5-10-21	KLC	Initial .pdf Release
	6-11-21	KLC	Revised per 5.19.21 Plan Check Comments

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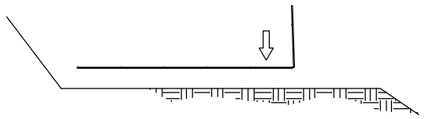
MSE WELDED WIRE WALL
CROSS SECTION & DETAILS

PROJECT	21-013
DATE	5-10-21
DESIGN	KLC
DRAWN	KLC

SHT 10 OF 11

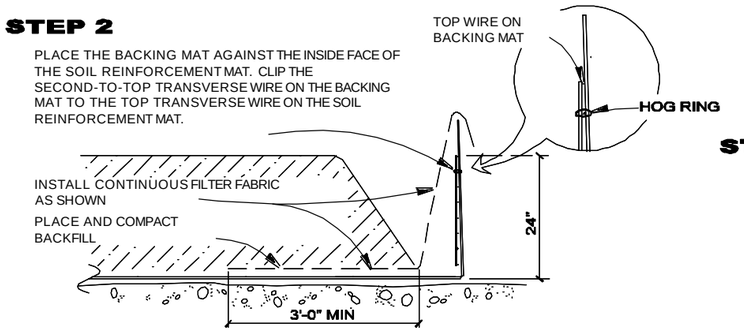
STEP 1

PLACE THE FIRST COURSE OF SOIL REINFORCEMENT MATS ON PREPARED FOUNDATION.



STEP 2

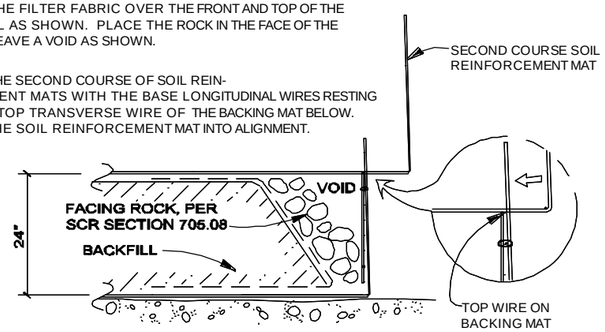
PLACE THE BACKING MAT AGAINST THE INSIDE FACE OF THE SOIL REINFORCEMENT MAT. CLIP THE SECOND-TO-TOP TRANSVERSE WIRE ON THE BACKING MAT TO THE TOP TRANSVERSE WIRE ON THE SOIL REINFORCEMENT MAT.



STEP 3

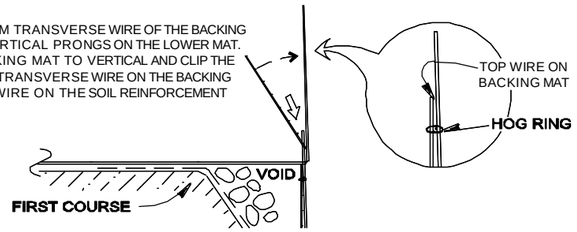
BRING THE FILTER FABRIC OVER THE FRONT AND TOP OF THE BACKFILL AS SHOWN. PLACE THE ROCK IN THE FACE OF THE WALL. LEAVE A VOID AS SHOWN.

PLACE THE SECOND COURSE OF SOIL REIN-FORCEMENT MATS WITH THE BASE LONGITUDINAL WIRES RESTING ON THE TOP TRANSVERSE WIRE OF THE BACKING MAT BELOW. SLIDE THE SOIL REINFORCEMENT MAT INTO ALIGNMENT.



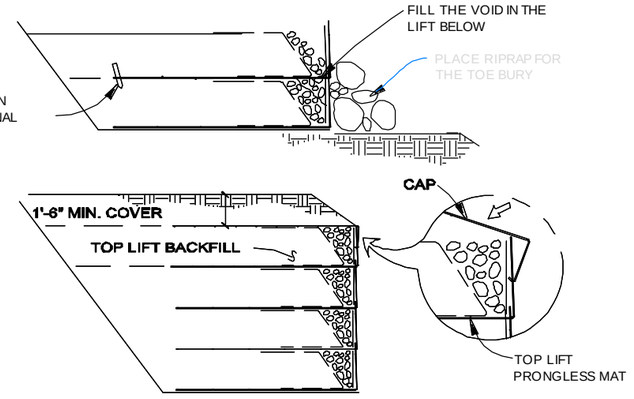
STEP 4

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 MAT TO THE TOP WIRE ON THE SOIL REINFORCEMENT MAT.



STEP 5

INSTALL THE FILTER FABRIC AS IN STEPS 2 AND 3. PLACE AND COMPACT THE BACKFILL AND ROCK TO THE BASE ELEVATION OF THE NEXT MAT. REPEAT STEPS 2 THROUGH 5 TO THE TOP LIFT.

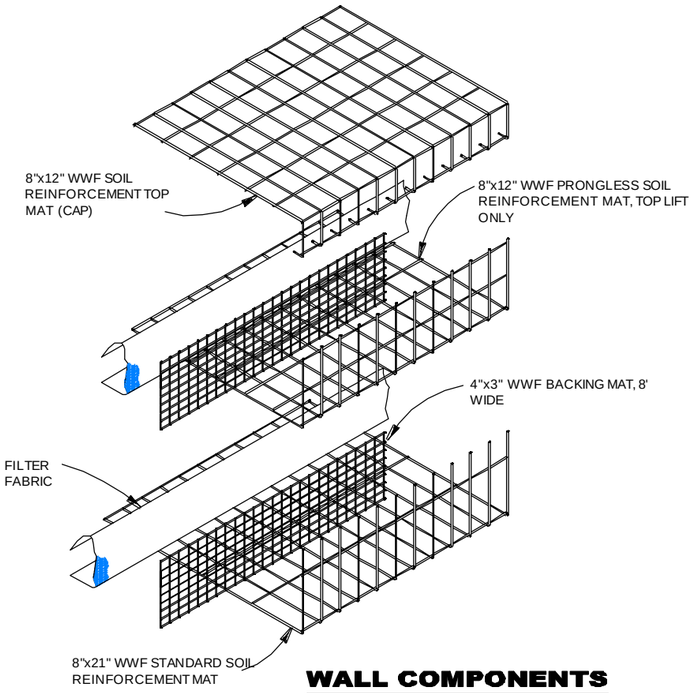


STEP 6: TOP LIFT

PLACE THE TOP LIFT PRONGLESS MAT, BACKING MAT AND FILTER FABRIC. PLACE AND COMPACT BACKFILL AND ROCK IN THE TOP LIFT. HOOK THE CAP OVER THE MIDDLE TRANSVERSE WIRE ON THE PRONGLESS MAT, AND ROTATE INTO PLACE. PLACE AND COMPACT COVER OVER TOP MAT TO 1'-6" MINIMUM DEPTH.

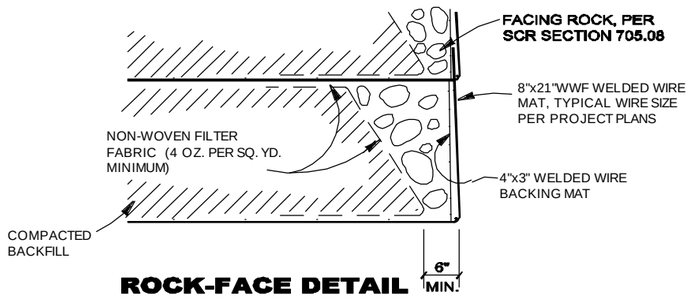
CONSTRUCTION SEQUENCE

NOT TO SCALE



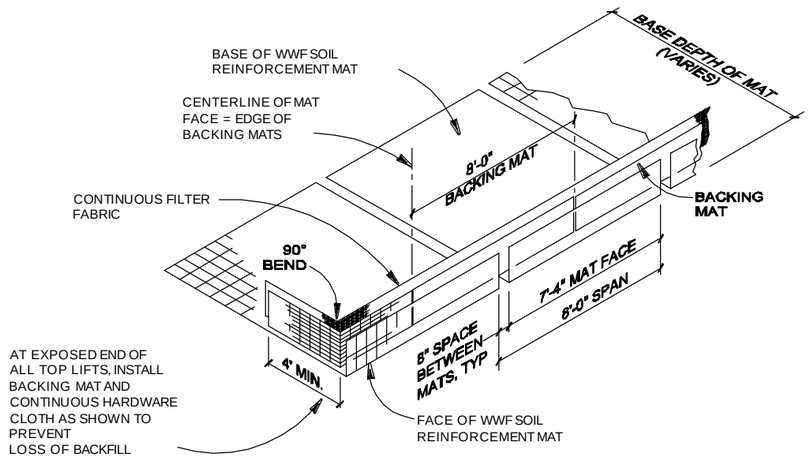
WALL COMPONENTS

NOT TO SCALE



ROCK-FACE DETAIL

NOT TO SCALE



ISOMETRIC VIEW

WELDED WIRE WALL COMPONENTS WITH RETURN MAT

NOT TO SCALE

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MSE WELDED WIRE WALL CONSTRUCTION SEQUENCE & DETAILS

PROJECT	21-013
DATE	5-10-21
DESIGN	KLC
DRAWN	KLC

SHT 11 OF 11