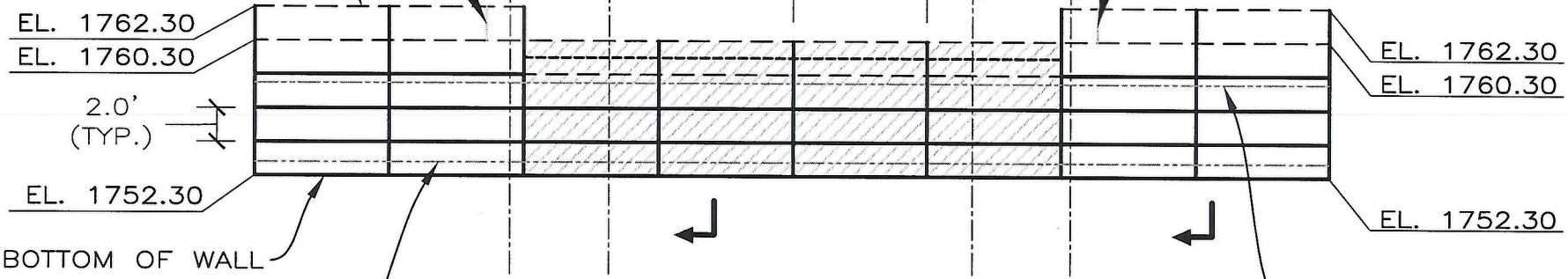
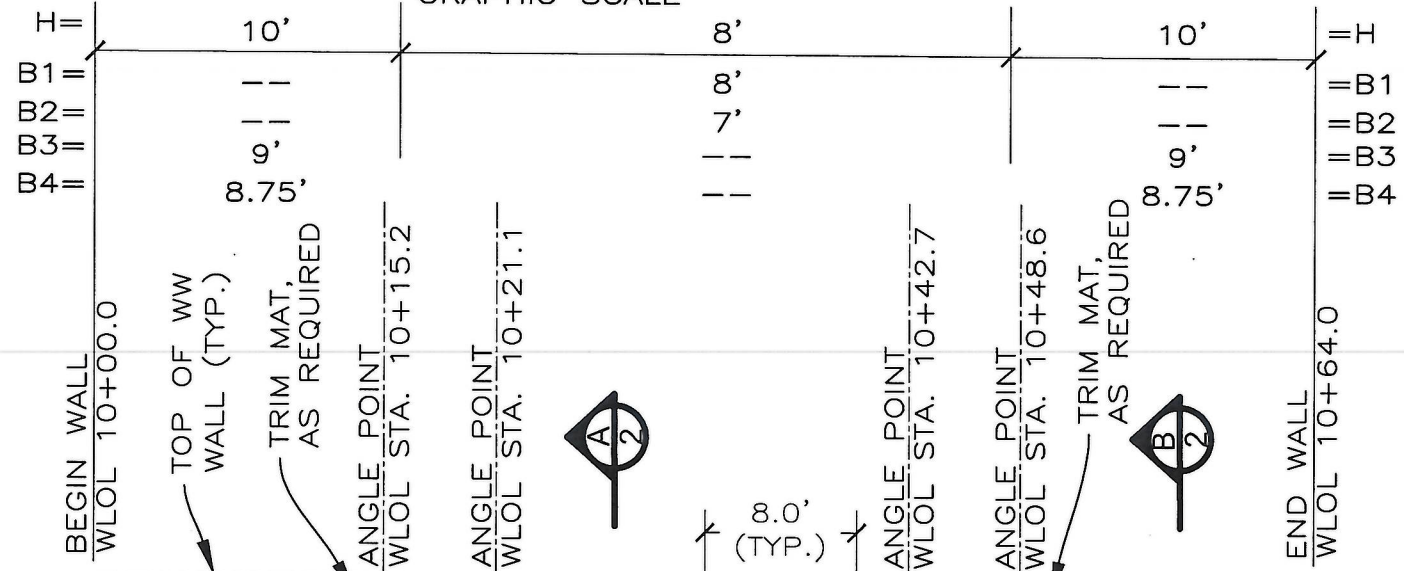


**PLAN VIEW  
(EAST & WEST ABUTMENTS)**  
GRAPHIC SCALE



**ELEVATION VIEW  
(EAST & WEST ABUTMENTS)**  
GRAPHIC SCALE

TOTAL SUPPLIED QUANTITY (EAST AND WEST ABUTMENTS)  
1,152 S.F.

**LEGEND**

	B1	8"X12", W7xW3.5-HDG
	B2	8"X10.5", W7xW3.5-HDG
	B2	8"X10.5", W7xW3.5-HDG (FLAT MAT)
	B3	8"X12", W4.5xW3.5-HDG
	B4	8"X10.5", W4.5xW3.5-HDG

WLOL WALL LAYOUT LINE  
H HILFIKER WALL HEIGHT  
B MAT LENGTH  
WW WELDED WIRE

03279 Cripple Creek Drawings - I PREPARED 10-16-2019.dwg

10/16/2019 12:14 PM

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REV.	DATE	BY	DESCRIPTION
0	10/16/2019	SGC	ISSUED FOR REVIEW
1	10/18/2019	SGC	ISSUED FOR SUBMITTAL

CADD: RGV  
DESIGNED: RGV  
CHECKED: SGC

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WEB SITE www.hilfiker.com E-MAIL info@hilfiker.com

**AMERICAN GEOTECHNICS**

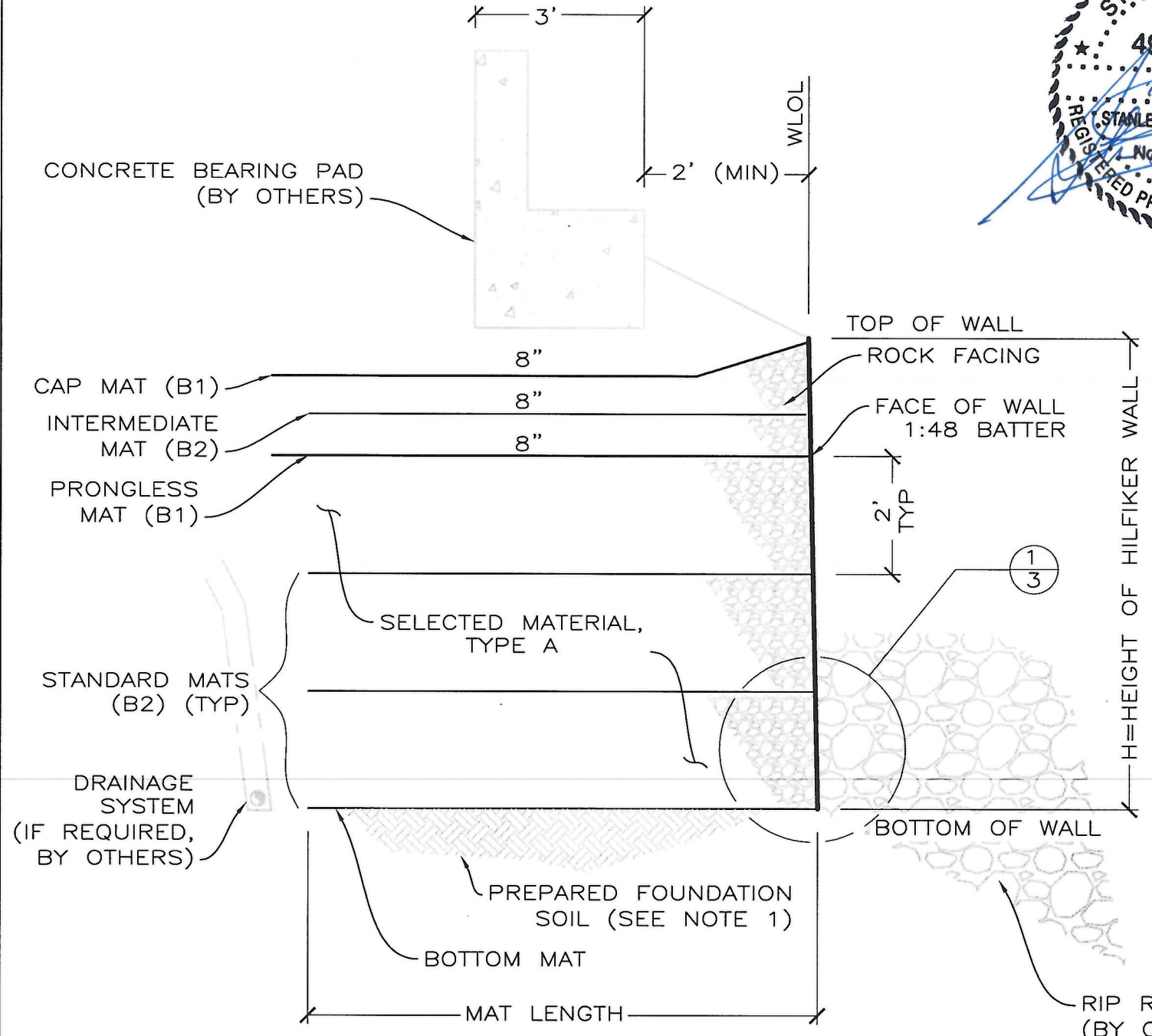
American Geotechnics  
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Boise, ID 83714  
(208) 658-8700  
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WW WALL PLAN & ELEVATION
WELDED WIRE WALL
CRIPPLE CREEK CROSSING
AK D.N.R.

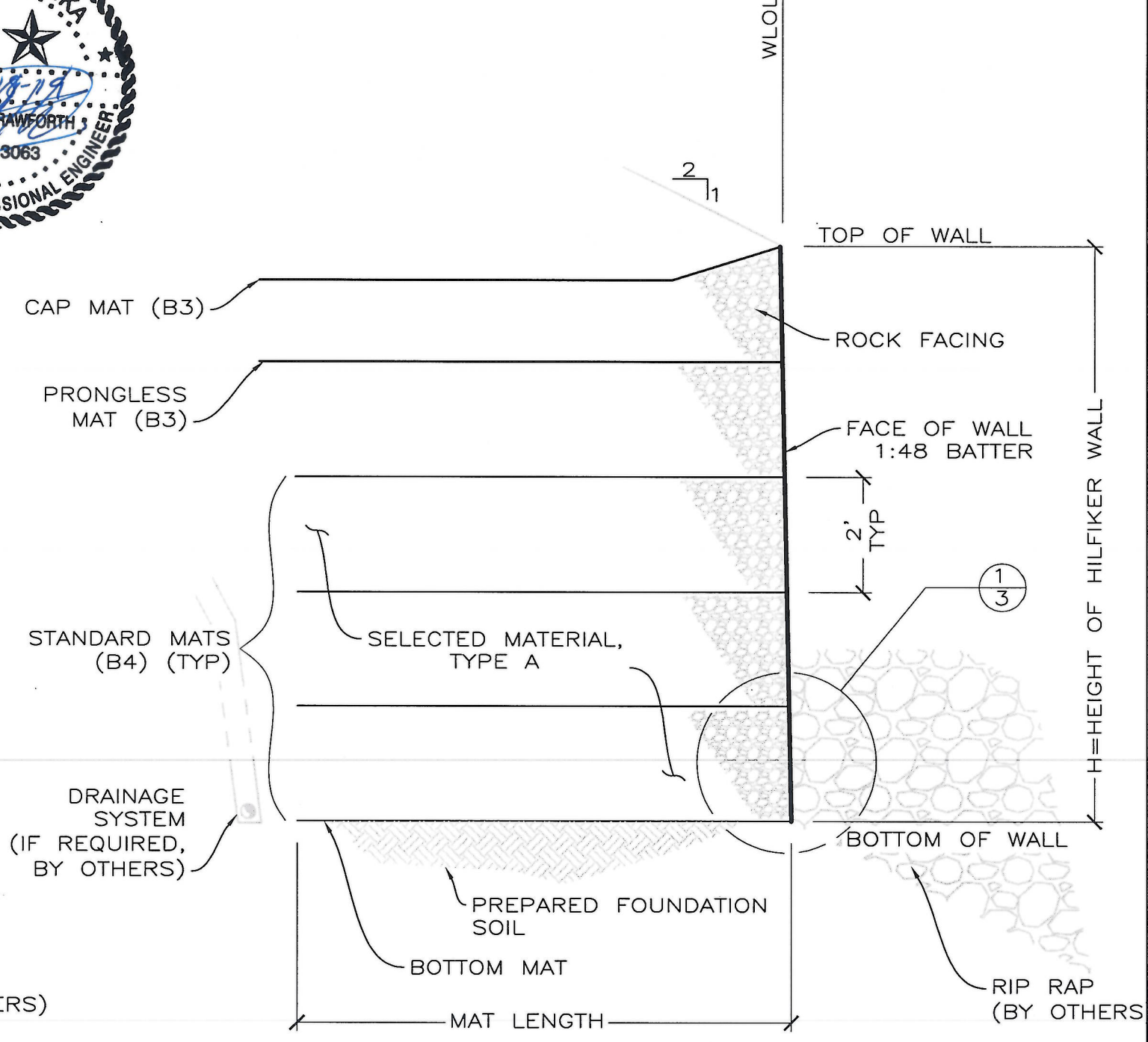
DWG DATE: 18 OCT 2019
HRW NO.: 190822AW
SHEET 1 OF 4

HEALY, AK





TYPICAL SECTION A  
NOT TO SCALE



TYPICAL SECTION B  
NOT TO SCALE

03279 Cripple Creek Drawings - 11 PREPARED 10-16-2019.dwg

10/16/2019 12:41 PM

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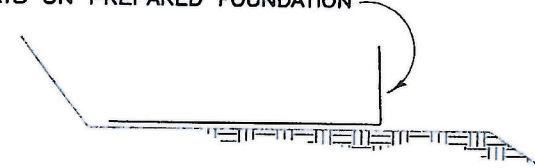
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TYPICAL SECTIONS	DWG DATE: 18 OCT 2019
WELDED WIRE WALL	HRW NO.:
CRIPPLE CREEK CROSSING	190822AW
AK D.N.R.	SHEET
HEALY, AK	2
	OF 4



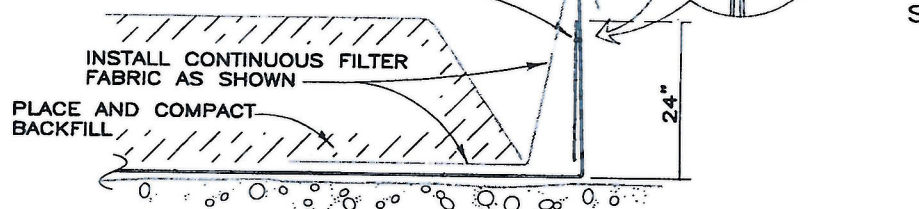
**STEP 1**

PLACE THE FIRST COURSE OF SOIL REINFORCEMENT MATS ON PREPARED FOUNDATION



**STEP 2**

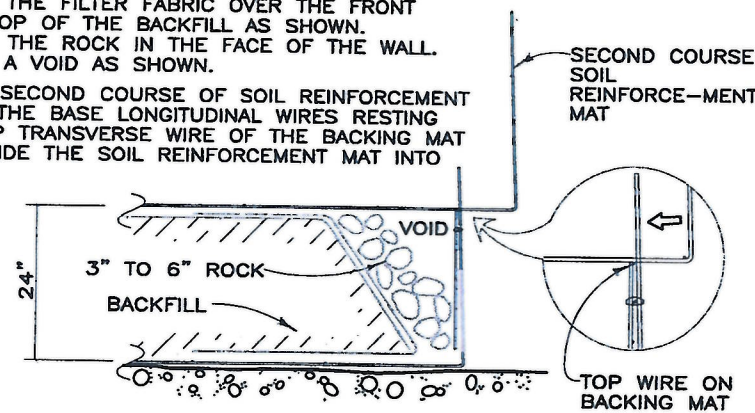
PLACE THE BACKING MAT AGAINST THE INSIDE FACE OF THE SOIL REINFORCEMENT MAT. CLIP THE SECOND-TO-TOP TRANSVERSE WIRE ON THE BACKING MAT TO THE TOP TRANSVERSE WIRE ON THE SOIL REINFORCEMENT MAT.



**STEP 3**

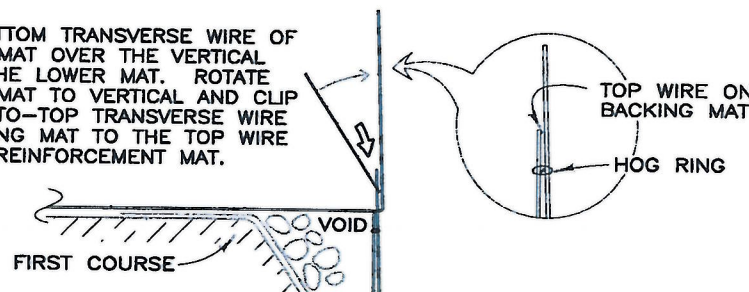
BRING THE FILTER FABRIC OVER THE FRONT AND TOP OF THE BACKFILL AS SHOWN. PLACE THE ROCK IN THE FACE OF THE WALL. LEAVE A VOID AS SHOWN.

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



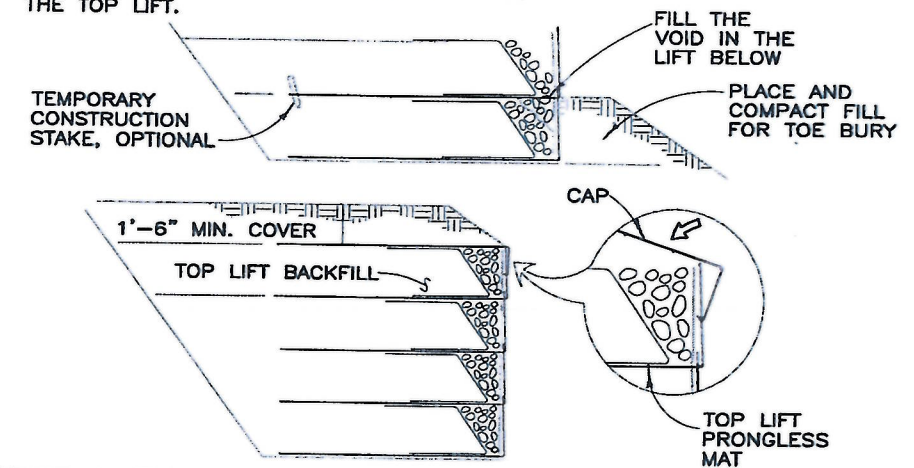
**STEP 4**

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**

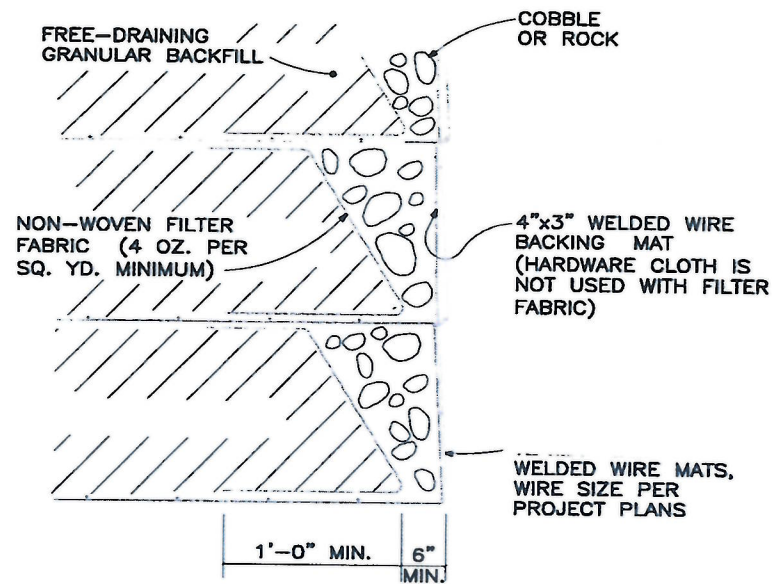
INSTALL THE FILTER FABRIC AS IN STEPS 2 AND 3. PLACE AND COMPACT THE BACKFILL AND ROCK TO THE BASE ELEVATION OF THE NEXT MAT. REPEAT STEPS 2 THROUGH 5 TO THE TOP LIFT.



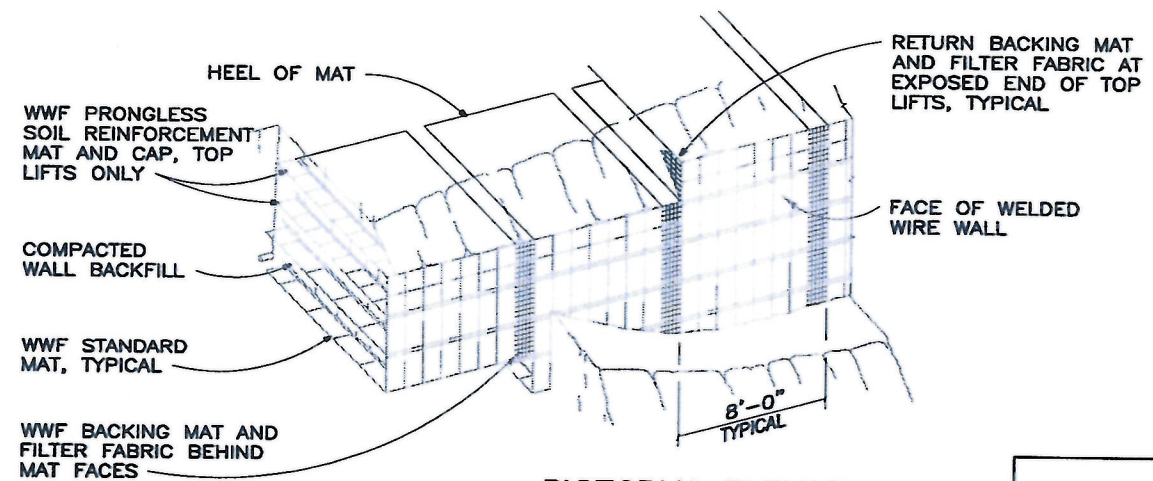
**STEP 6: TOP LIFT**

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



**SECTION**  
**ROCK FACING DETAIL**  
NOT TO SCALE



**PICTORIAL ELEVATION**  
NOT TO SCALE

10/16/2019 12:14 PM 03279 Cripple Creek Drawings - I PREPARED 10-16-2019.dwg

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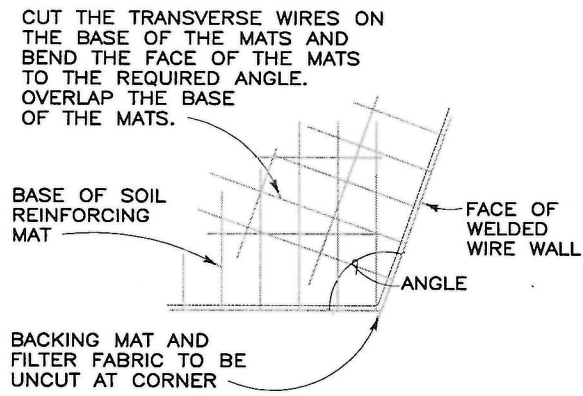
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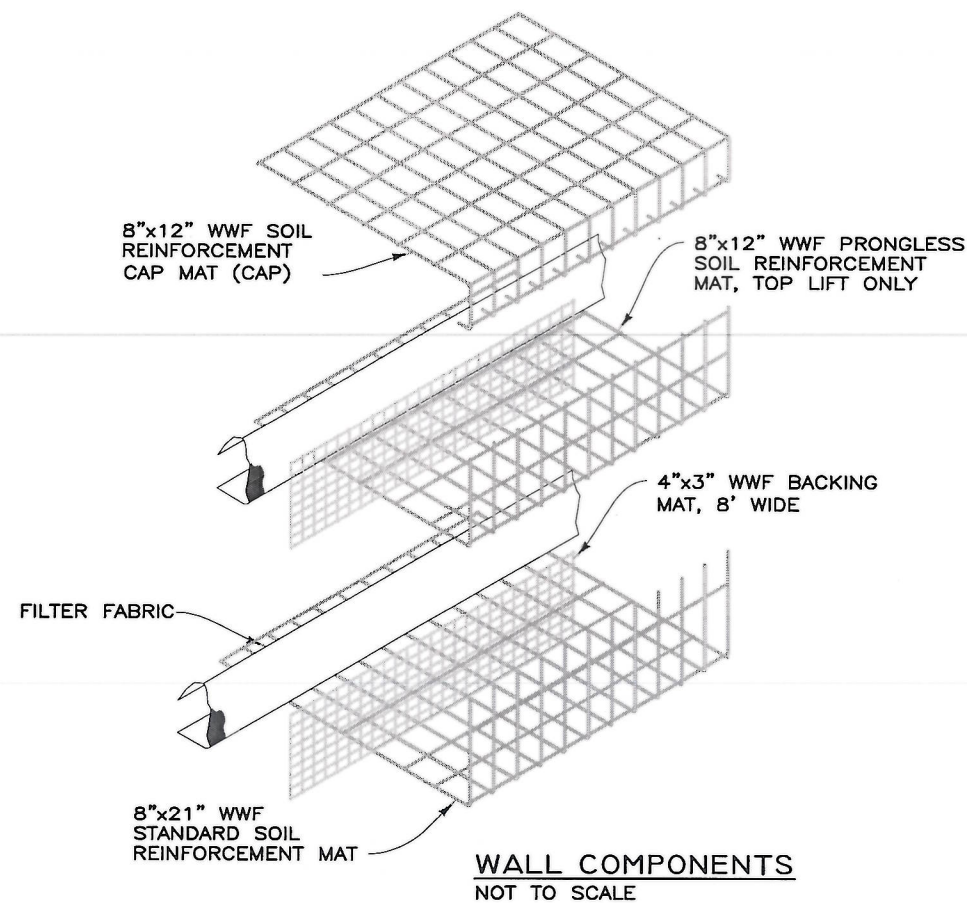
CONSTRUCTION SEQUENCE	DWG DATE:
WELDED WIRE WALL	18 OCT 2019
CRIPPLE CREEK CROSSING	HRW NO.:
	190822AW
	SHEET
	3
	OF 4

AK D.N.R. HEALY, AK





**PLAN VIEW**  
**OBTUSE CONVEX ANGLE**  
NOT TO SCALE



**DESIGN NOTES:**

- ALL MATERIALS SHALL BE FURNISHED AND PLACED IN ACCORDANCE WITH ADOT STANDARD SPECIFICATION AND THE PROJECT SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED IN THE SPECIFICATIONS PROVIDED BY HILFIKER RETAINING WALLS.
- FOR THE CONCRETE BEARING PAD SUPPORTING THE SUPERSTRUCTURE, THE MAXIMUM ALLOWABLE VERTICAL STRESS ON THE AGGREGATE IS 7,000 PSF.
- DESIGN PARAMETERS ASSUMED FOR DESIGN:
 

MATERIAL	FRICTION	COHESION	UNIT WEIGHT
REINFORCED BACKFILL	34 DEG.	0 PSF	130 PCF
RETAINED SOIL	30 DEG.	0 PSF	125 PCF
FOUNDATION SOIL	30 DEG.	0 PSF	120 PCF
SEISMIC ACCELERATION	0.436 PGA		
- NON-SATURATED BACKFILL IS REQUIRED. CONTRACTING AGENCY SHALL PROVIDE ESSENTIAL SURFACE AND SUBSURFACE DRAINAGE CONTROLS, AS REQUIRED, TO PREVENT ADVERSE HYDROSTATIC PRESSURE.
- CORROSION DESIGN IS 75 YEARS FOR HOT DIPPED GALVANIZED STEEL REINFORCEMENTS. REINFORCED BACKFILL MATERIALS SHALL MEET NON-AGGRESSIVE ELECTRO-CHEMICAL REQUIREMENTS FOR BACKFILL, AS DEFINED IN THE AASHTO BRIDGE DESIGN SPECIFICATIONS (LATEST EDITION).
- THE SPECIFICATIONS, DRAWING NOTES AND CALCULATIONS PRESENTED IN THIS WALL SUBMITTAL PACKAGE ARE AN INTEGRAL PART OF THE HILFIKER WALL CONSTRUCTION PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING THE WALL LAYOUT LINE (WL0L) FROM THE REFERENCE LINE AND LOCATION INFORMATION PROVIDED IN THE CONTRACTING AGENCY'S PLANS.
- SEE THE HILFIKER RETAINING WALLS INSTALLATION GUIDE FOR MATERIALS HANDLING AND CONSTRUCTION.



03229 Cripple Creek Drawings - 11 PREPARED Jb (6-2019).dwg 10/16/2019 12:24 PM

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DETAIL & DESIGN NOTES  
WELDED WIRE WALL  
CRIPPLE CREEK CROSSING  
AK D.N.R. HEALY, AK

DWG DATE: 18 OCT 2019  
HRW NO.: 190822AW  
SHEET 4 OF 4