

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.

DRAINAGE CONTROL SHALL BE AS SPECIFIED IN THE PROJECT PLANS AND SPECIFICATIONS OR AS DIRECTED BY THE OWNER'S ENGINEER. PAYMENT FOR DRAINAGE SHALL BE AS SPECIFIED IN THE PROJECT SPECIFICATIONS.

REFERENCE DOCUMENTS: PLANS AND SPECIFICATIONS PROVIDED IN PDF, PREPARED BY IDAHO TRANSPORTATION DEPARTMENT (BRIDGE PLANS), DATED JULY 2018.

PRESSURE: 4.72 KSF (D.L+L.L.)

BASE DEPTH	PRONGLESS MAT W7xW3.5 (8x12)	CAP MAT W7xW3.5 (8x12)	STANDARD MAT W7xW4 (8x21)	STANDARD MAT W7xW3.5 (8x10.5)
21'-0"	33	33	330	-
17'-6"	-	_	72	_
17'-0"	8	8	-	-
15'-9"	-	_	32	-
15'-0"	4	4	_	-
14'-0"	4	4	28	-
12'-3"	-	-	24	-
12'-0"	4	4	_	-
11'-0"	4	4	-	_
10'-6"	-	_	32	4
10'-0"	4	4	_	-
9'-0"	13	13	_	-
8'-9"	-	-	23	-
WALL FACE SUPPLIED	11,088 SQ FT			
MSE BACKFILL (BY OTHERS)	*6,610 C.Y.			
BACKING MATS (2'-0" HIGH)	723 EA			
FILTER FABRIC (2'-6" WIDE)	5,784 LIN FT			

10/26/18

E.R.S.

HILFIKER RETAINING WALLS



1902 Hilfiker Lane Eureka. CA 95503-5711 PH 707.443.5093 FAX 707.443.2891



1 OF 5 ^{ATE} 10/26/18 018213

DEPARTMENT
NO. A020(314
DUNTY, IDAHO
PLAN,
NOTES

DAHO TRANSPORTATIC S NORTHGATE IC-PRI SCATELLO, BANNOCK WALL 1 & QUANTITIES

^ರ∾ ೫'

5 EA * TOP MAT TO BOTTOM MAT, NEAT

14,900 EA

FACE ANCHORS 148 EA

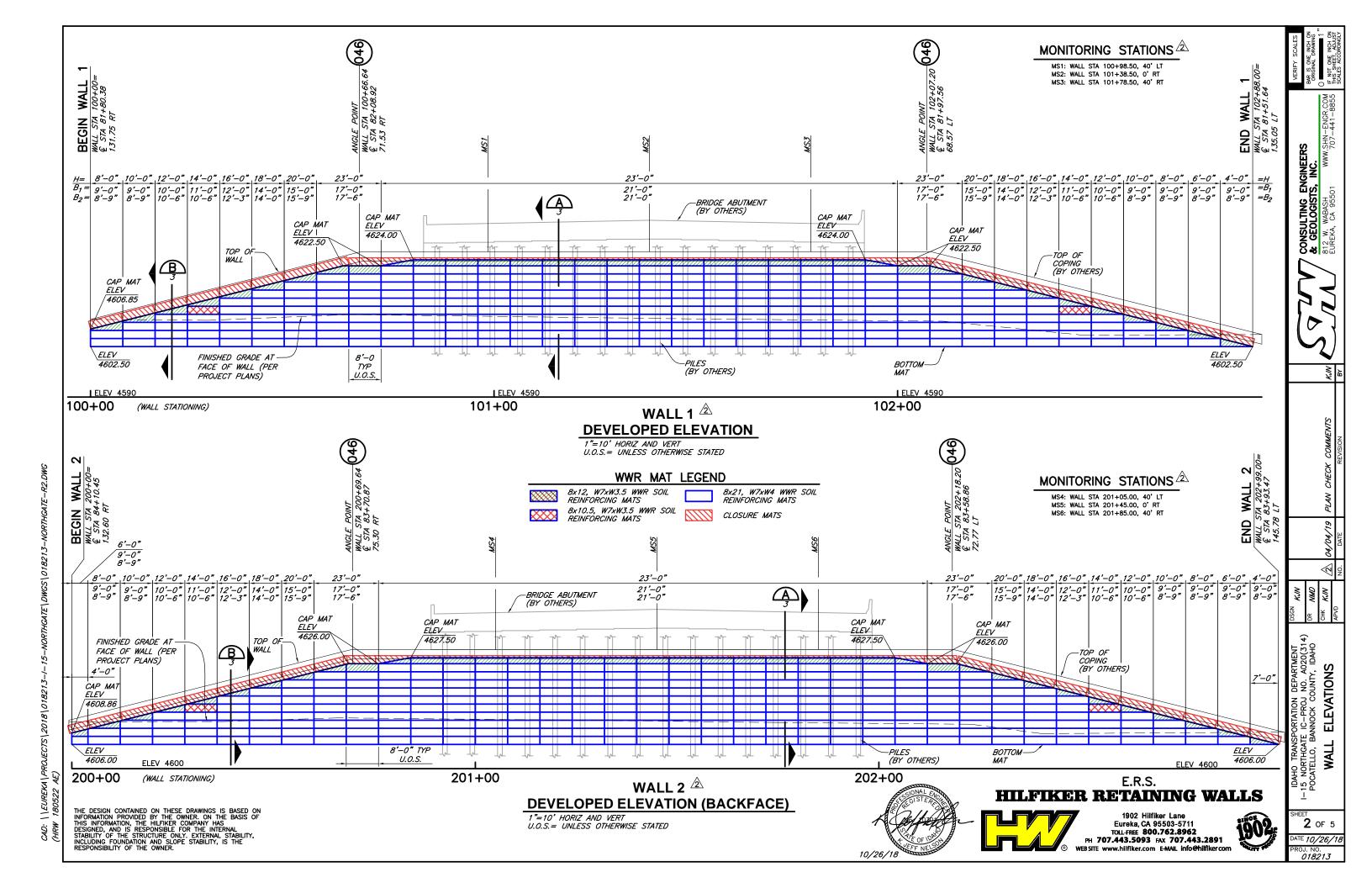
CLOSURE MATS 74 FA

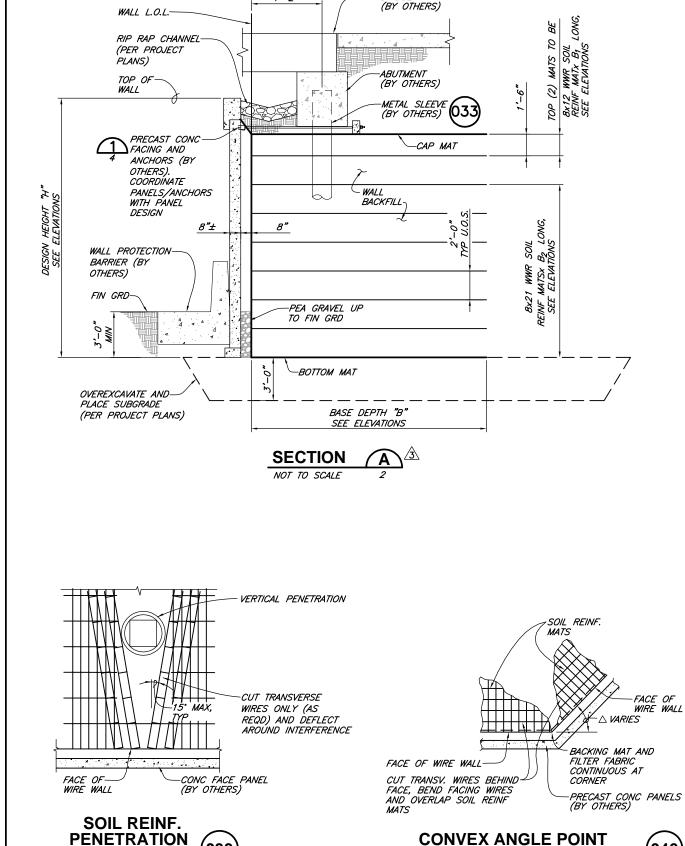
HOG RINGS

PLIERS

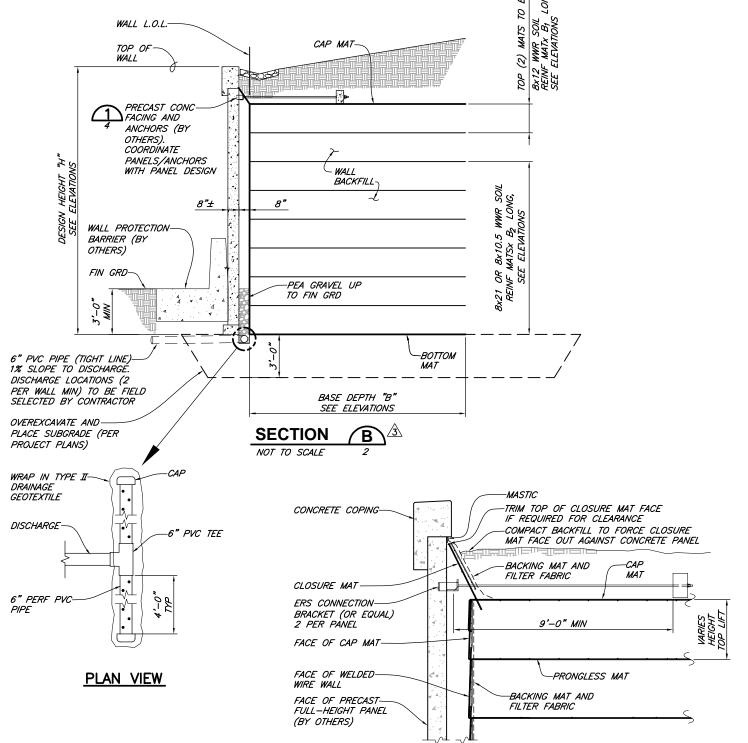
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4'-2"



NOTE: METHOD OF ATTACHING PANELS MAY VARY FROM THIS DETAIL, AT CONTRACTOR'S OPTION.

TOP OF WALL AND PANEL CONNECTION DETAILS

NOT TO SCALE

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10/26/18

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CONSULTING ENGINEERS
& GEOLOGISTS, INC.

812 W. WABASH
EUREKA, CA 95501
707

KN KN

UNDERDRAIN
HECK COMMENTS
ANCHOR BLOCK

REMOVE UNDE PLAN CHECK (REVISED ANCH

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DETAILS

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SECTIONS

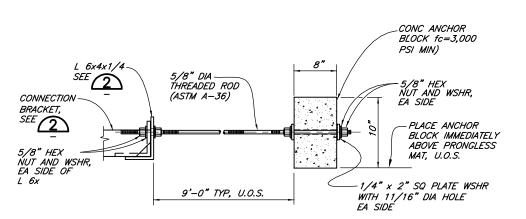
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NOT TO SCALE

CONVEX ANGLE POINT NOT TO SCALE

(046)



THREADED RODS, PLATES, NUTS AND WASHERS SHALL BE A36 STEEL AND HOT-DIP GALVANIZED AFTER FABRICATION (2 OZ/SQ FT MIN PER AASHTO M-111)

DETAIL NOT TO SCALE

BACK FACE OF PRECAST FACING PANEL

8 1/4"

SIDE

CONNECTION BRACKET ASSEMBLIES SHALL BE FABRICATION OF A36 STEEL AND HOT-DIP GALVANIZED AFTER FABRICATION (2 OZ/SQ FT MIN PER AASHTO M-111)

DETAIL

NOT TO SCALE

1/4"x3

FLATBAR

-DRAIN HOLE

U.O.S. = UNLESS OTHERWISE STATED

LONGITUDINAL PANEL REINFORCING

L 6x4x1/4 WITH 1" DIA HOLE FOR ANCHOR ROD

-5/8" THREADED ROD (ASTM A36)

CONC COPING

(BY OTHERS)

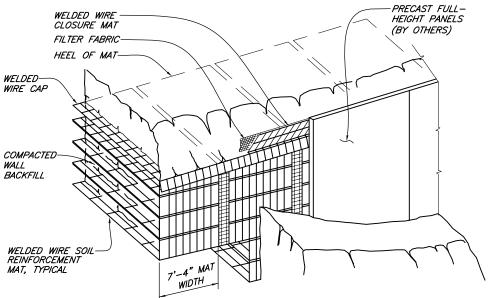
TOP OF

PCC PANEL

BOTTOM OF-PCC PANEL

OR EXTRA #4 x 2'-0" LONG WHERE PANEL REINFORCING NOT ENCOUNTERED. CENTER EXTRA REINFORCING ON 3" FLATBAR 4x4x1/4 x 6" WIDE

ISOMETRIC VIEW



PICTORIAL ELEVATION

NOT TO SCALE

"D"

PANEL WIDTH

8'-9" NOMINAL (MAX)

D/2

-CAP MAT

(TOP MAT)

PANEL ANCHOR

MAT, U.O.S.

PCC FACING PANELS, TYP

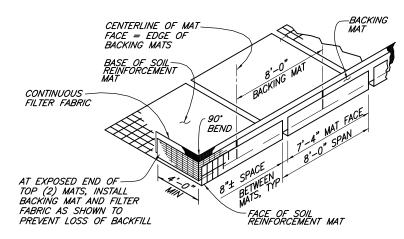
(BY OTHERS) LINE OF WWR MATS (BEYOND)

(BEYOND), TYP. MIN

(2) ANCHORS PER PANEL IMMEDIATELY

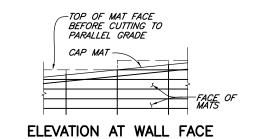
ABOVE PRONGLESS

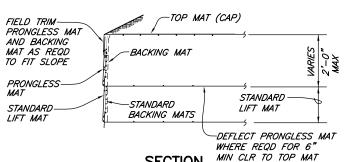
PRONGLESS MAT. TYP



ASSEMBLED WALL COMPONENTS DETAIL

NOT TO SCALE





SECTION

INSTALLATION SEQUENCE

- PLACE THE PRONGLESS MATS AND BACKING MATS FOR THE TOP LIFTS. CUT THE PRONGLESS AND BACKING MAT FACES OFF PARALLEL TO THE SLOPE OF THE FINAL GRADE.

- PLACE AND COMPACT THE BACKFILL IN THE TOP
 LIFTS TO PARALLEL THE FINAL GRADE SLOPE.
 PLACE THE CAPS ON THE BACKFILL AND CLIP THEM
 TO THE PRONGLESS MAT FACES WITH HOG RINGS.
 PLACE AND COMPACT THE FINAL COVER OVER
 THE CAP MATS.

SLOPED CAP DETAILS

NOT TO SCALE

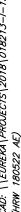
E.R.S. HILFIKER RETAINING WALLS



Eureka, CA 95503-5711 TOLL-FREE 800.762.8962 PH 707.443.5093 FAX 707.443.2891



1902 Hilfiker Lane



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6 1/2"

PLAN

FRONT

1/2" RAD

FLAT BAR TO

PCC PANEL CONNECTION DETAIL

CIP CONC PAD TYP (BY OTHERS)

NOT TO SCALE U.O.S.= UNLESS OTHERWISE STATED 10/26/18

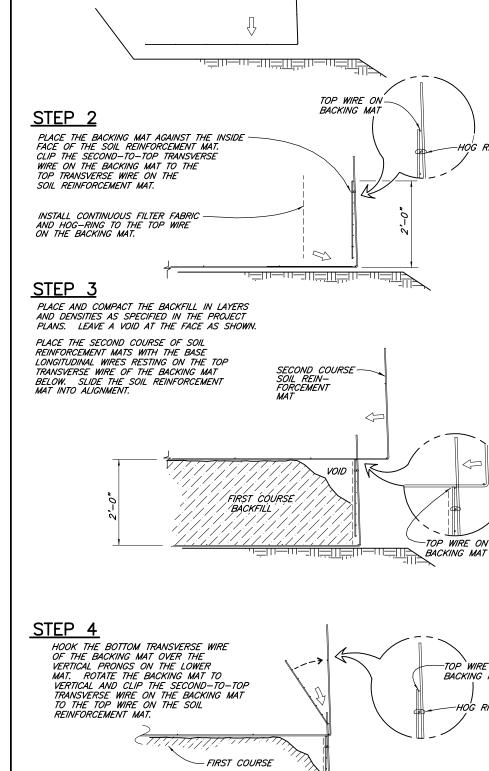
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DETAILS

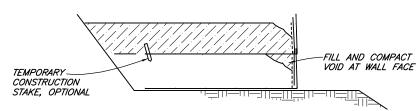
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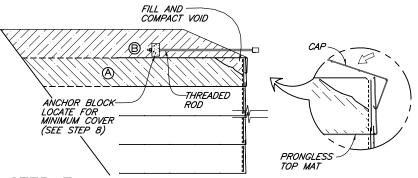
STEP 5

INSTALL THE FILTER FABRIC. PLACE AND COMPACT THE BACKFILL TO THE BASE ELEVATION OF THE NEXT MAT. REPEAT STEPS 3 THRU 5 TO THE TOP LIFT.



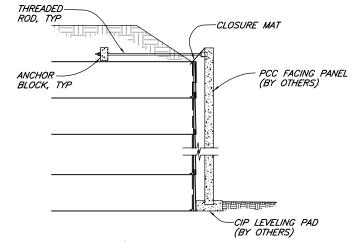
STEP 6: TOP LIFT

PLACE THE TOP LIFT PRONGLESS MAT, BACKING MAT AND FILTER FABRIC. INSTALL ANCHOR BLOCKS AND THREADED RODS. PLACE AND COMPACT BACKFILL IN AREA "A" HOOK THE CAP OVER THE MIDDLE TRANSVERSE WIRE ON THE PRONGLESS MAT, AND ROTATE INTO PLACE. BACKFILL "B" TO 2'-0" MINIMUM COVER OVER THE CAP.



STEP 7

WAIT FOR SETTLEMENT PERIOD (PER CONTRACT SPECIFICATIONS) AND THEN POUR CIP LEVELING PAD TO ELEVATION SHOWN.
INSTALL PCC FACING PANELS TO CIP PAD AND THREADED RODS FROM ANCHOR BLOCKS. PLACE CLOSURE MAT WITH BACKING MAT AND FILTER FABRIC.



CONSTRUCTION SEQUENCE A

NO SCALE

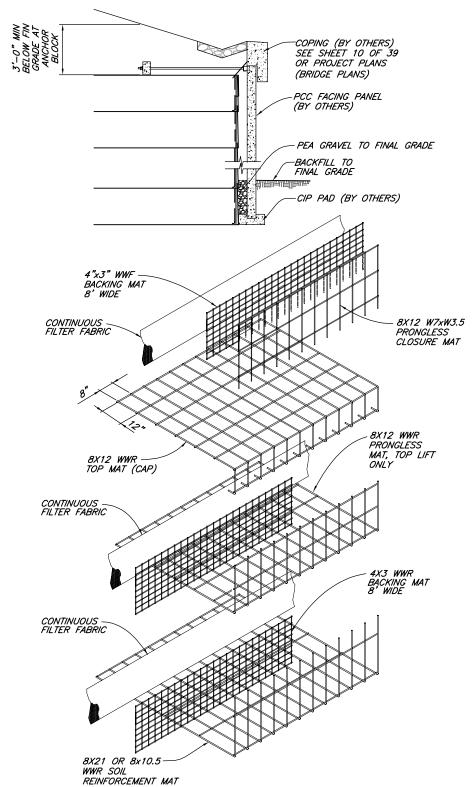
TOP WIRF ON

RING

BACKING MAT

STEP 8

BACKFILL AT TOE TO FINAL GRADE. PLACE AND COMPACT BACKFILL AT CLOSURE MAT. FINISH TOP OF WALL PER PROJECT PLANS.



WALL COMPONENTS NO SCALE

E.R.S.





10/26/18

1902 Hilfiker Lane Eureka, CA 95503-5711 PH 707.443.5093 FAX 707.443.2891



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IDAHO TRANSPORTATION DEPARTM

15 NORTHGATE IC-PROJ NO. A02
POCATELLO, BANNOCK COUNTY, ID

WALL COMPONENTS A

CONSTRUCTION SEQUE

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STEP 1

PLACE THE FIRST COURSE OF SOIL REINFORCEMENT

MATS ON PREPARED FOUNDATION.