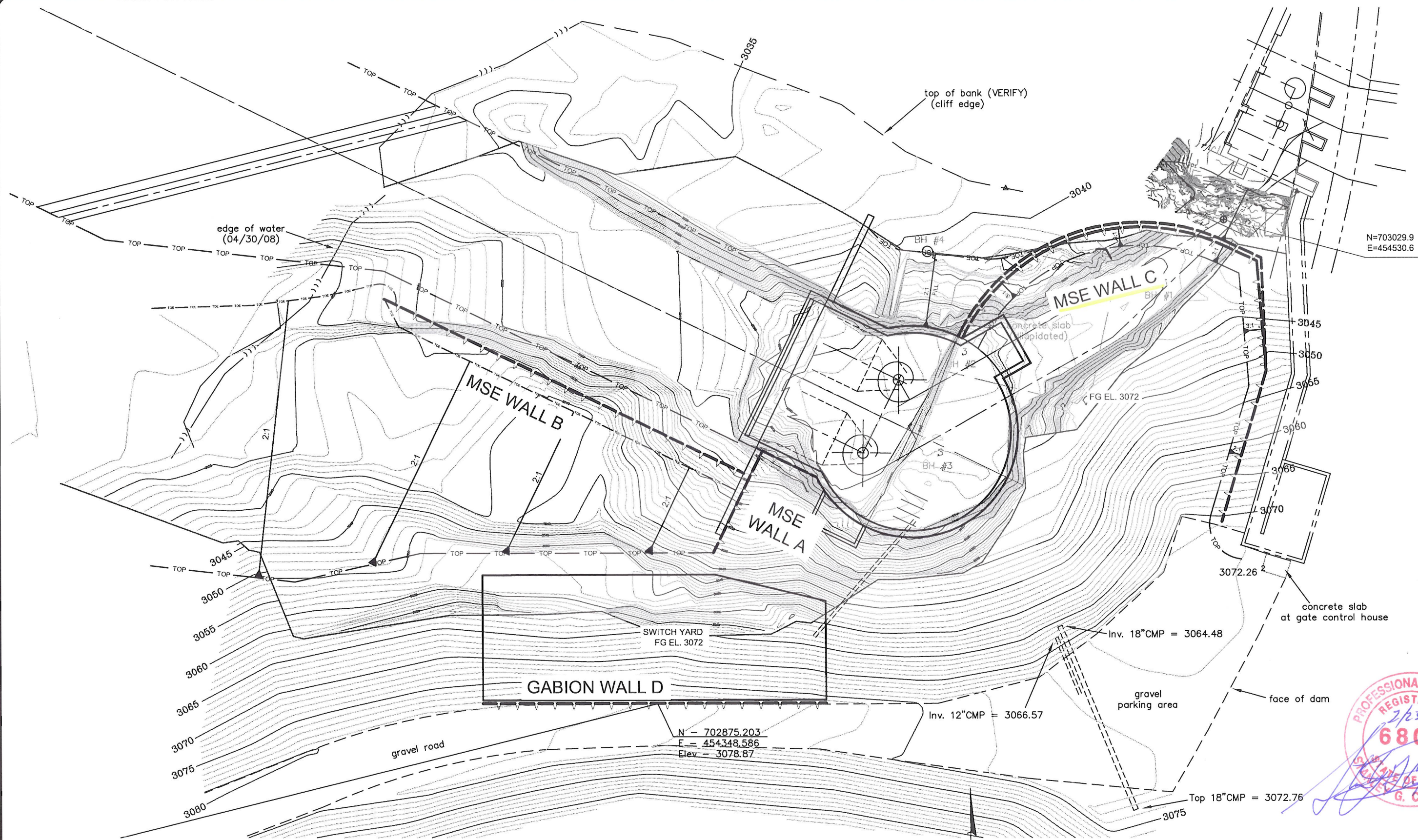


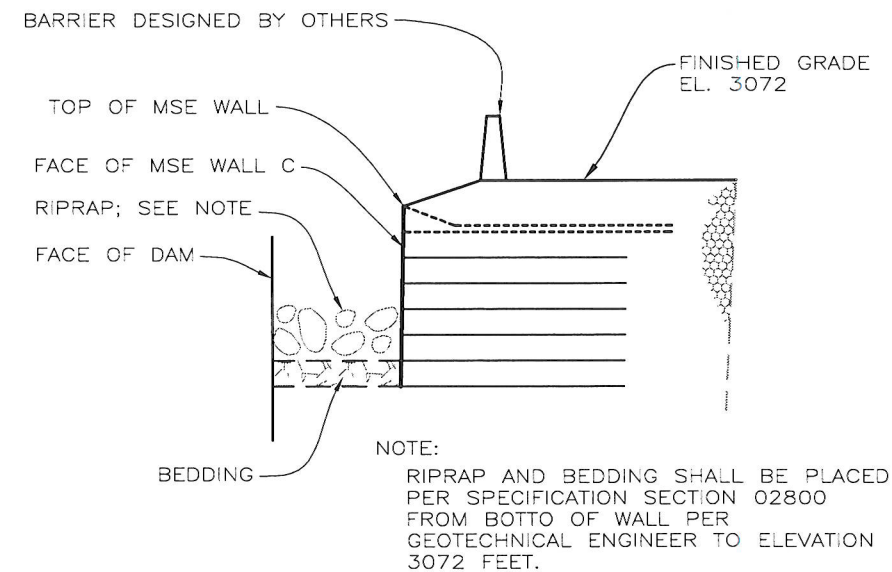


N=703029.9
E=454530.6



WALL LOCATIONS Arrowrock Dam Powerhouse Boise County, Idaho		Sheet 1 of 8 A M E R I C A N G E O T E C H N I C S
File No. 08B-G1705.1	February, 2009 Revision: 0	

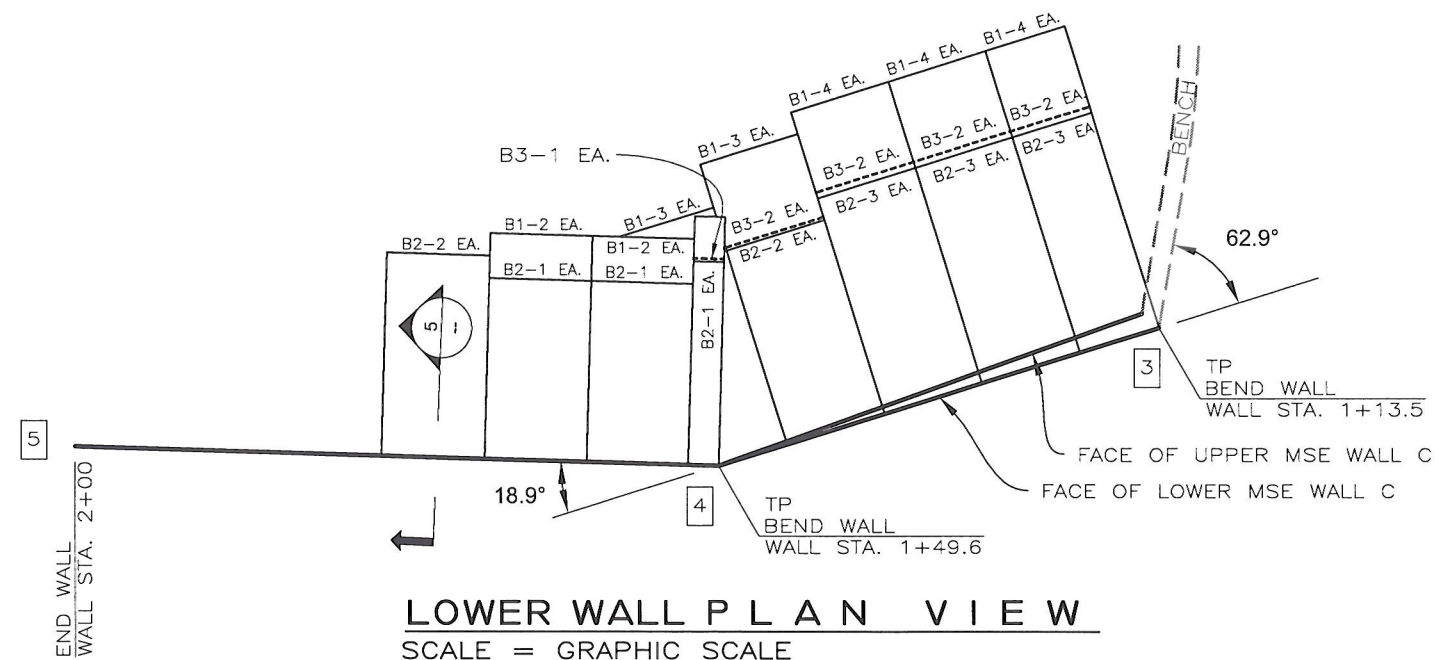
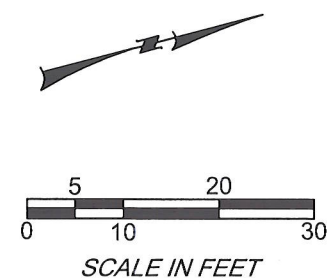
Justin Stoffel, American Geotechnics, Inc. 2/23/2009 7:52 PM 08B-G1705.1 Grading and Drainage MSE.dwg



TYPICAL WALL NEAR DAM STA. 1+13.5 TO 2+00

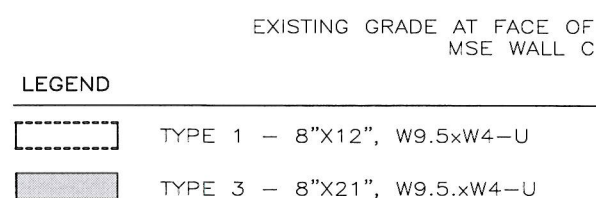
NOT TO SCALE

5

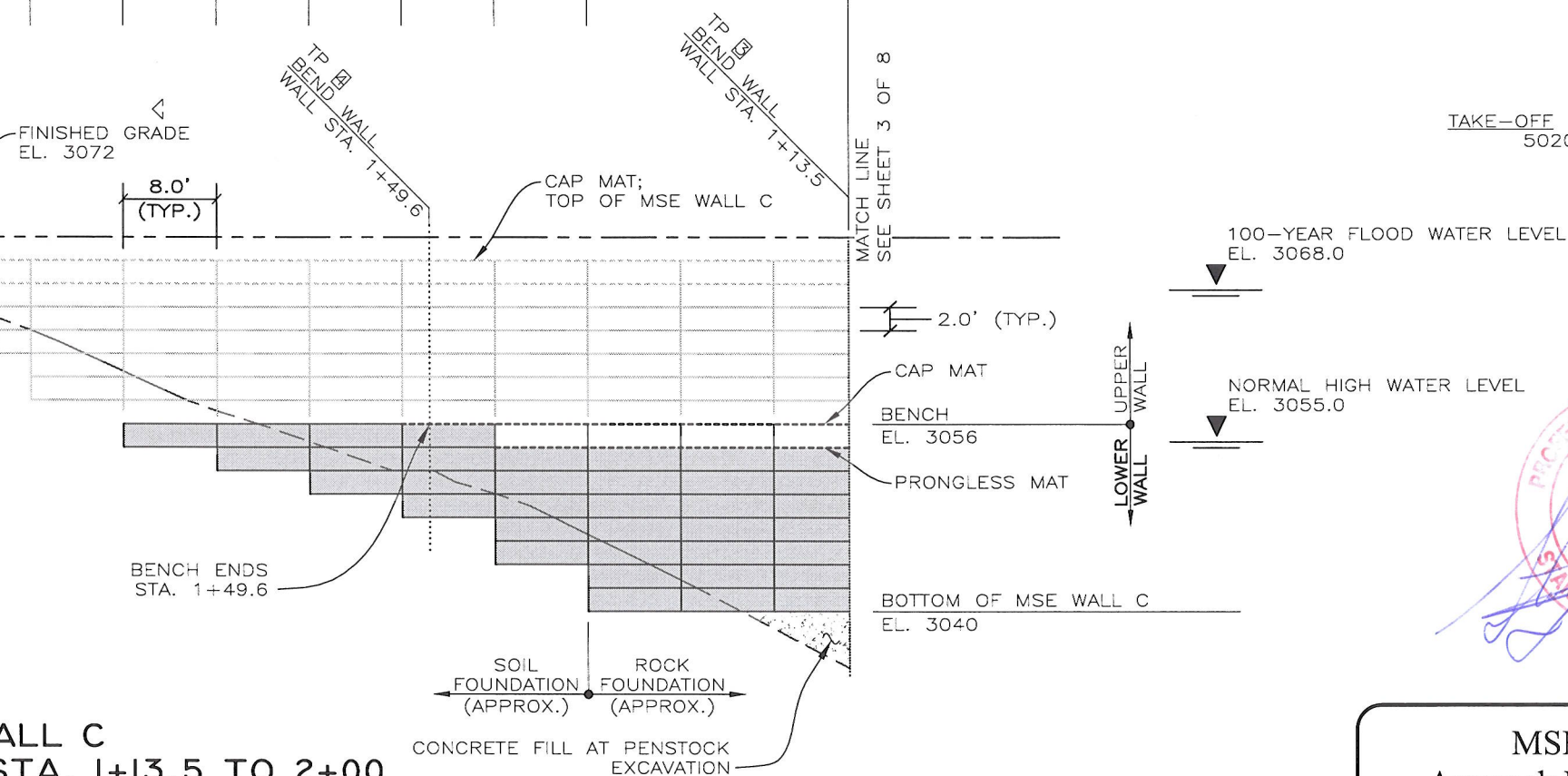


H=	4'	8'	12'	16'	18'	20'	22'	26'	30'	=H, HEIGHT OF MSE WALL
B3=	--	--	--	--	--	--	16'	16'	18'	=B3, CAP MAT AND PRONGLESS MAT (LOWER)
B2=	--	--	--	--	14'	14'	15.75'	15.75'	17.5'	=B2, LOWER WALL MATS
B1=	--	--	--	15.75'	17.5'	17.5'	19.25'	22.75'	24.5'	=B1, BOTTOM MATS

TAKE-OFF
5020 S.F. OF WALL FACING FOR MSE WALL C



MSE WALL C WALL STA. 1+13.5 TO 2+00 ELEVATION ALONG WALL LAYOUT - FRONT FACE OF WALL SCALE = GRAPHIC SCALE



- 3 TP WALL STA. 1+13.5
N=703017.7
E=454542.6
Δ=62.9°
- 4 TP WALL STA. 1+49.6
N=702981.6
E=454544.1
Δ=18.9°
- 5 END OF WALL WALL STA. 2+00
N=702933.4
E=454529.6

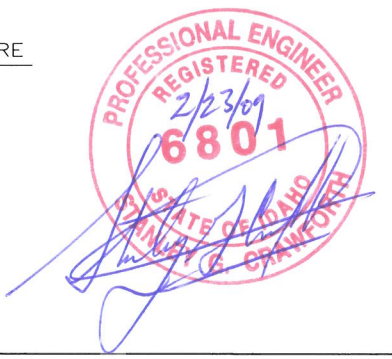
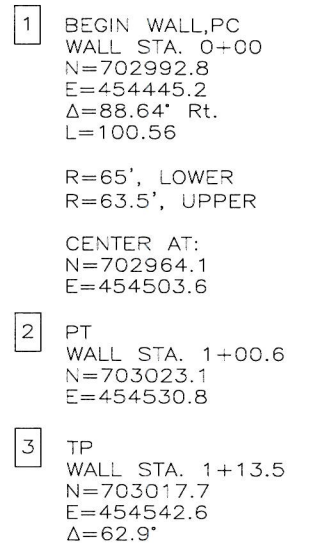
MSE WALL C
Arrorock Dam Powerhouse
Lower Wall Plan & Elevation

File No.
08B-G1705.1

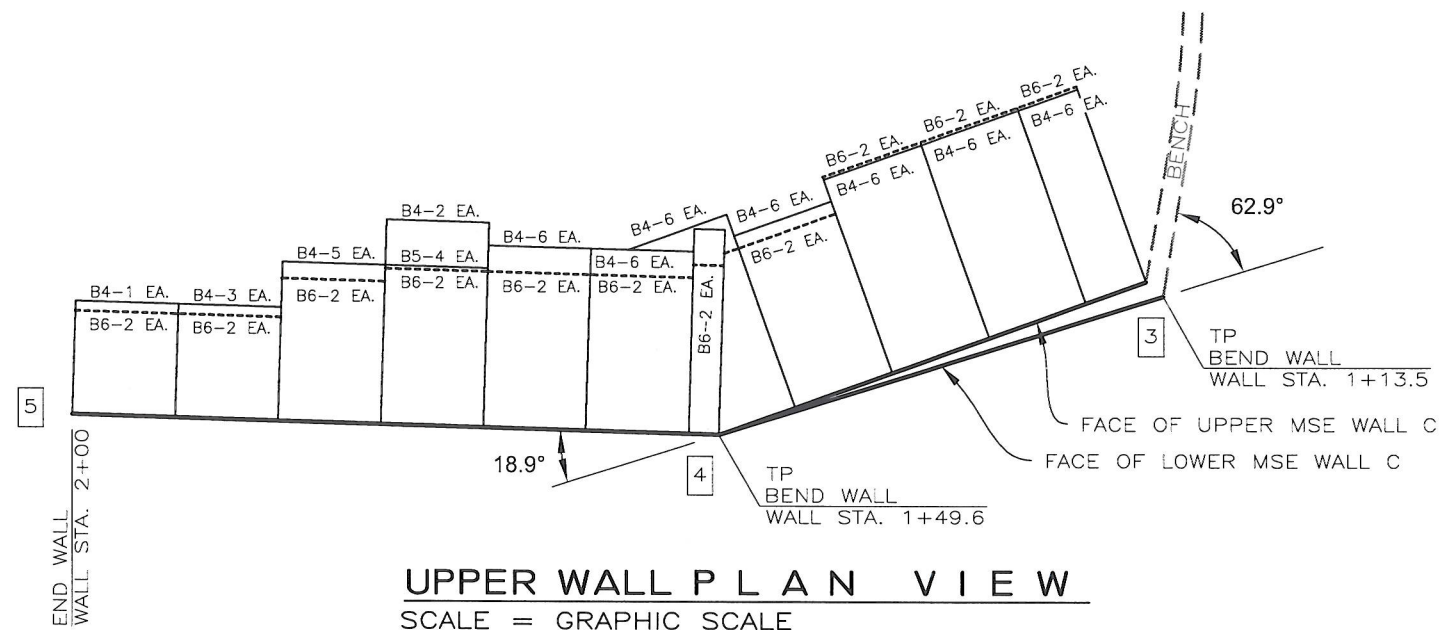
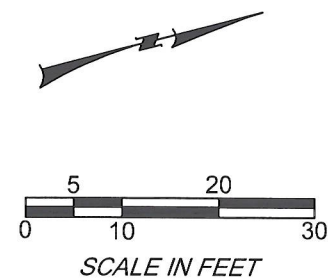
February, 2009
Revision: 0

Sheet 2 of 8





AMERICAN
GEO
TECHNICS

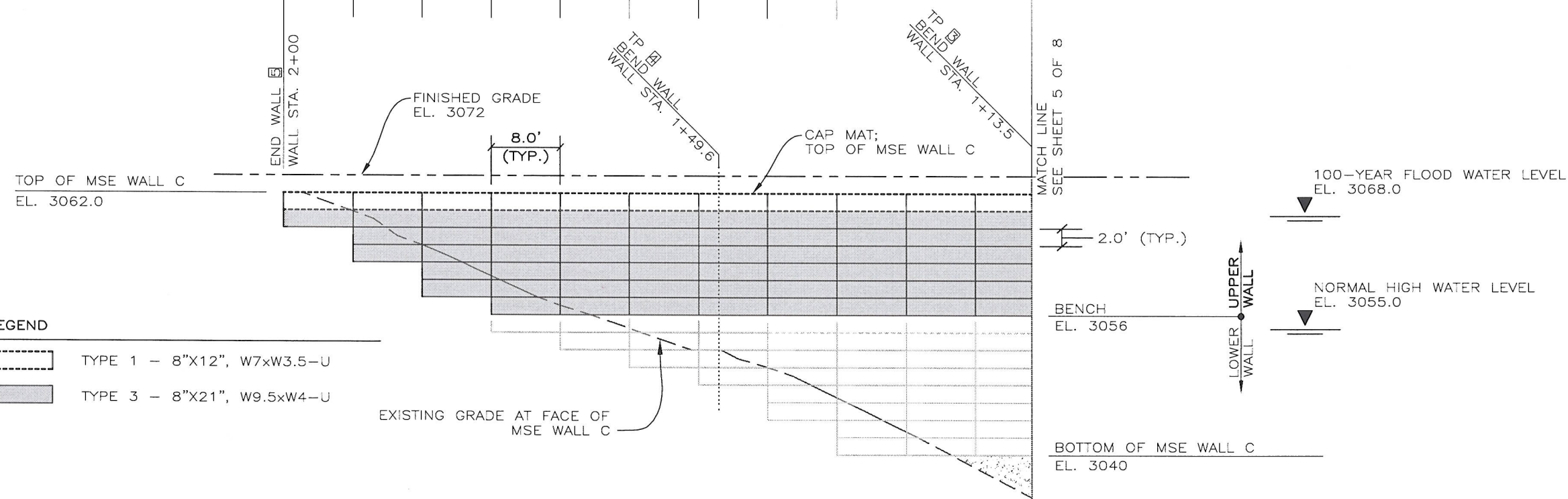


TAKE-OFF
5020 S.F. OF WALL FACING FOR MSE WALL C

- 3 TP
WALL STA. 1+13.5
N=703017.7
E=454542.6
Δ=62.9°
- 4 TP
WALL STA. 1+49.6
N=702981.6
E=454544.1
Δ=18.9°
- 5 END OF WALL
WALL STA. 2+00
N=702933.4
E=454529.6

H=	4'	8'	12'	16'	18'	20'	22'	26'	30'
B6=	8'	8'	11'	12'	12'	12'	13'	13'	16'
B5=	--	--	--	12.25'	--	--	--	--	--
B4=	8.75'	8.75'	12.25'	15.75'	14'	14'	15.75'	14'	15.75'

=H, HEIGHT OF MSE WALL
=B6, CAP MAT AND PRONGLESS MAT (UPPER)
=B5, UPPER WALL MATS
=B4, UPPER WALL BOTTOM MATS



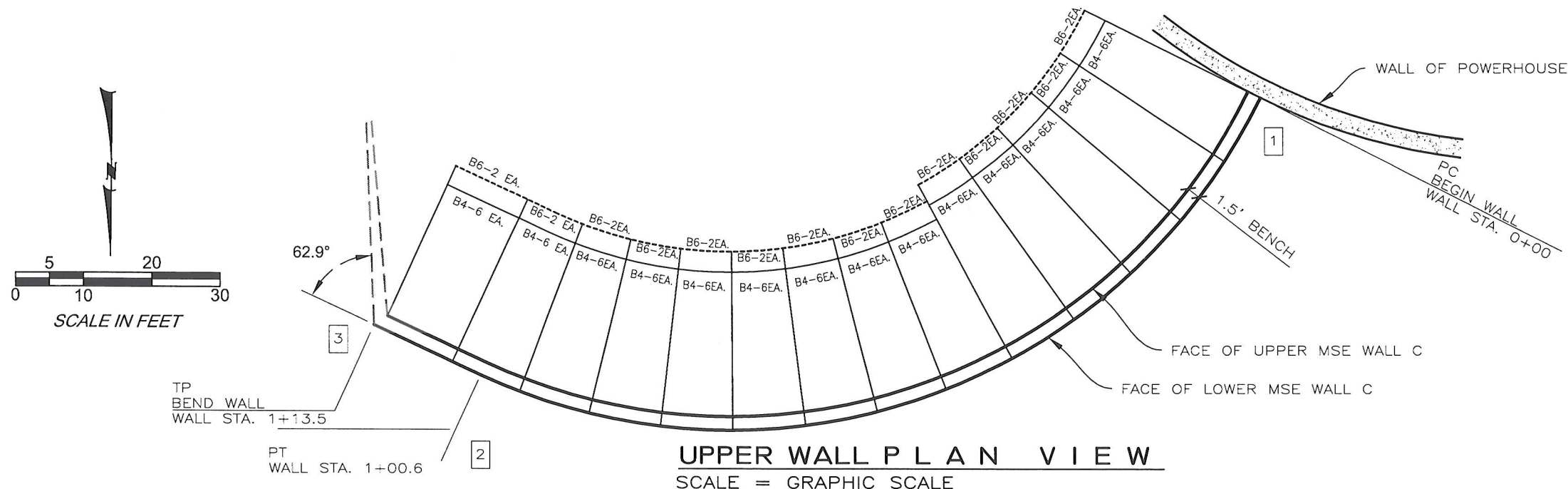
MSE WALL C
Arrorock Dam Powerhouse
Upper Wall Plan & Elevation

File No.
08B-G1705.1

February, 2009
Revision: 0

Sheet 4 of 8





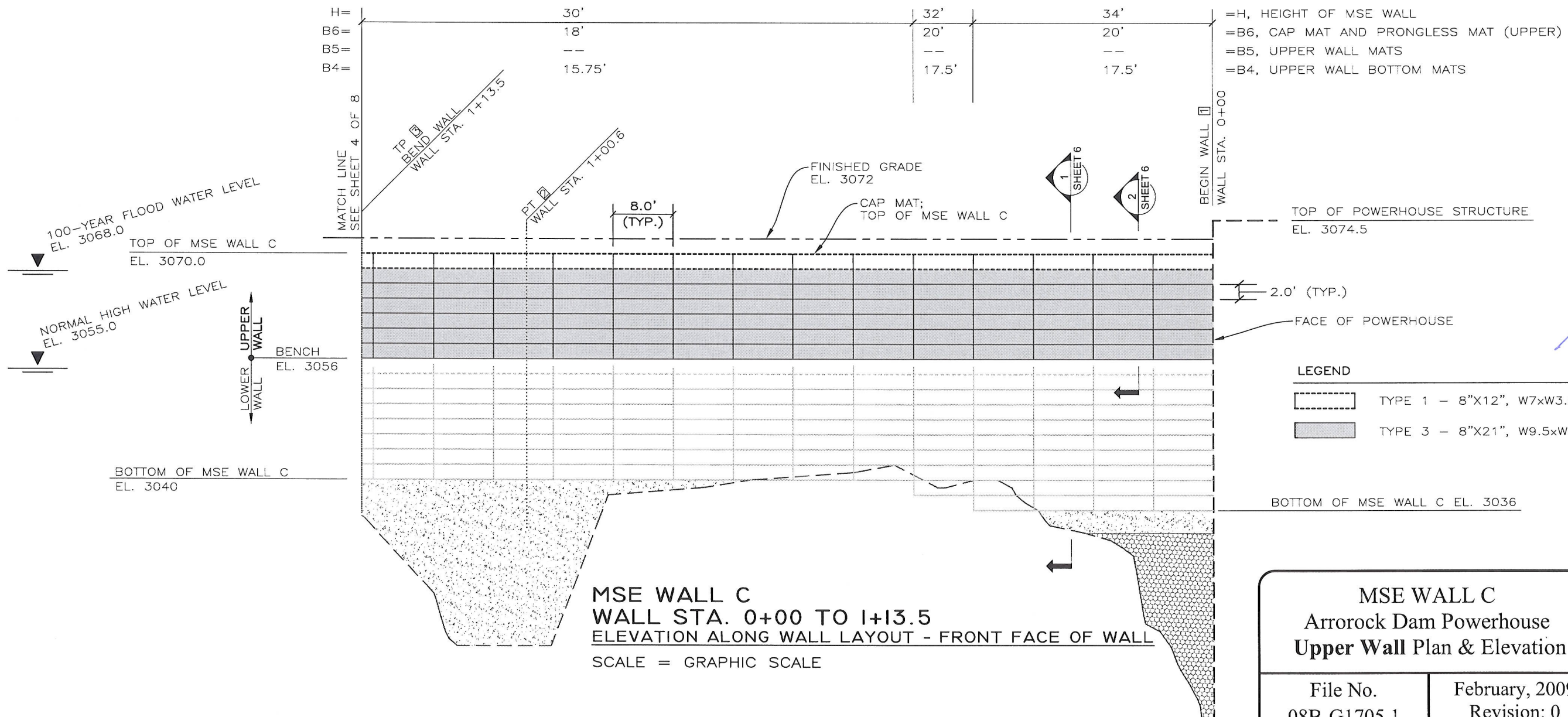
1 BEGIN WALL, PC
WALL STA. 0+00
N=702992.8
E=454445.2
 $\Delta=88.64^\circ$ Rt.
L=100.56

R=65', LOWER
R=63.5', UPPER

CENTER AT:
N=702964.1
E=454503.6

2 PT
WALL STA. 1+00.6
N=703023.1
E=454530.8

3 TP
WALL STA. 1+13.5
N=703017.7
E=454542.6
 $\Delta=62.9^\circ$



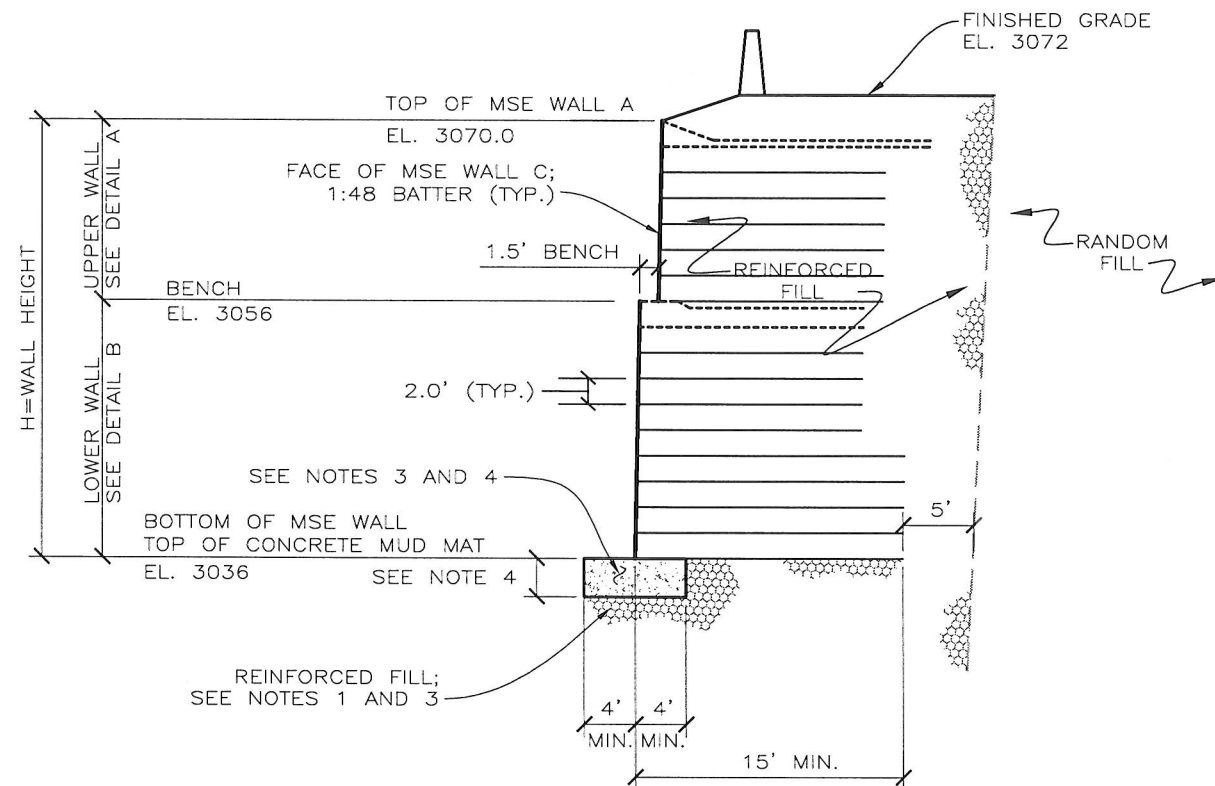
MSE WALL C
Arrorock Dam Powerhouse
Upper Wall Plan & Elevation

File No.
08B-G1705.1

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Revision: 0

Sheet 5 of 8

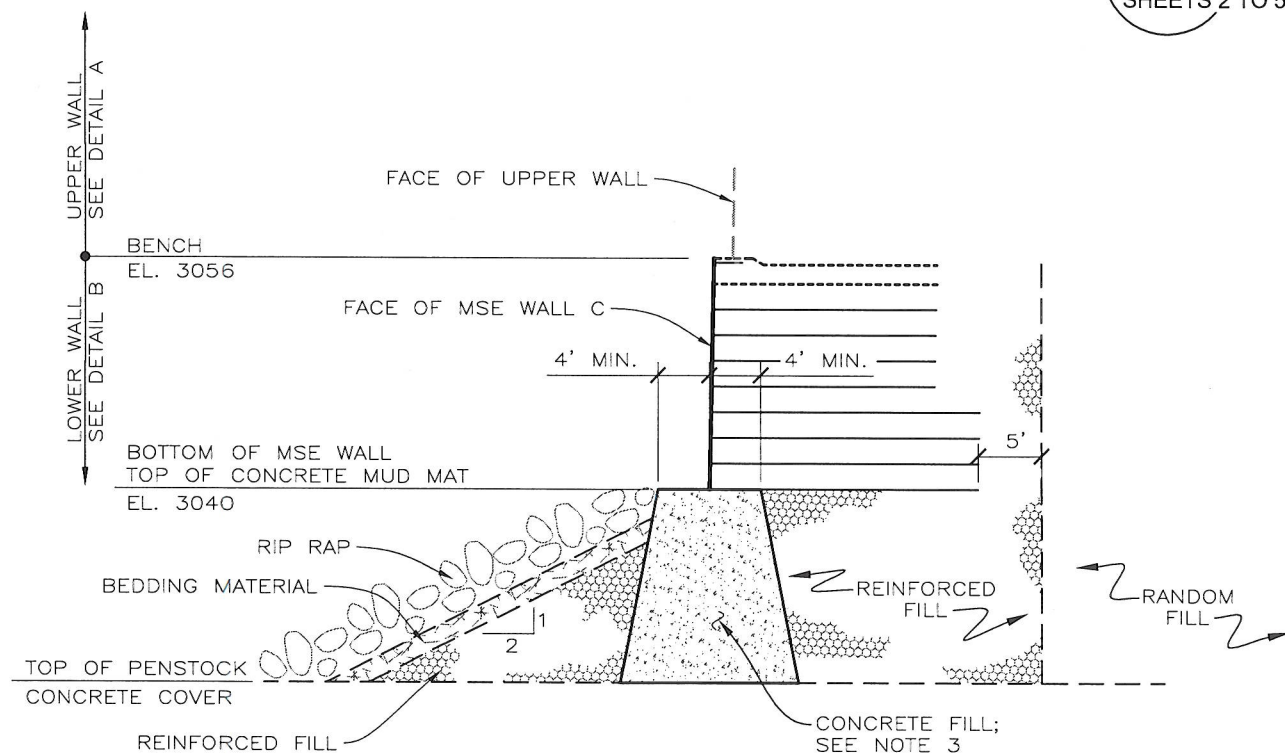




**MAXIMUM SECTION
STA. 0+00 TO 0+32**

NOT TO SCALE

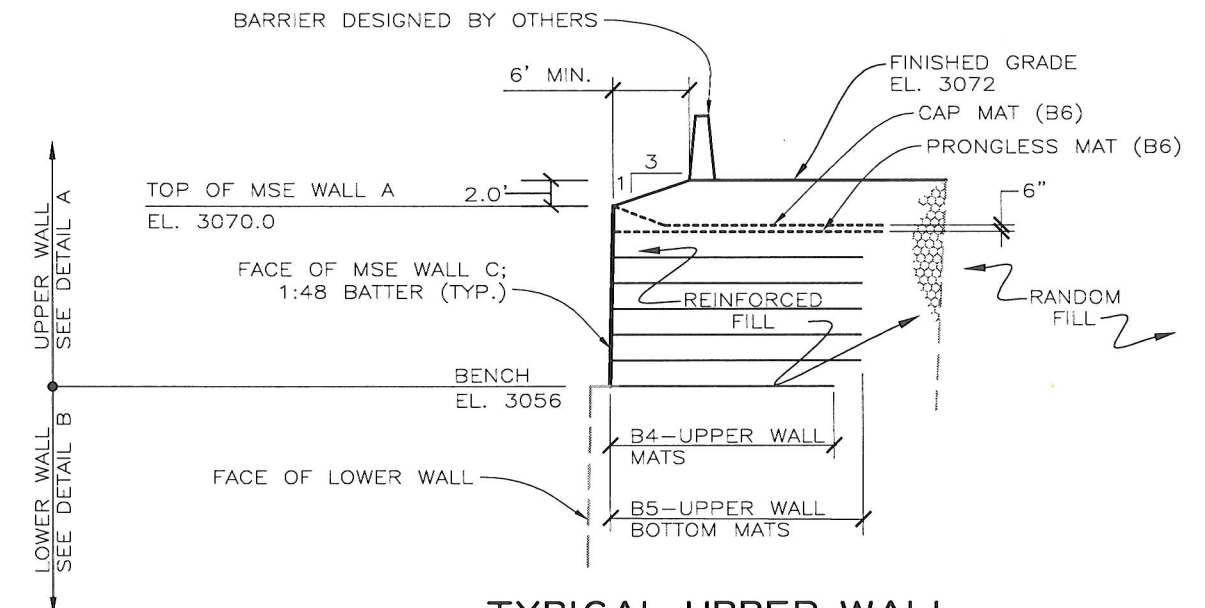
1
SHEETS 2 TO 5



**PENSTOCK FILL AREA
STA. 0+56 TO 0+96 (APPROX.)**

NOT TO SCALE

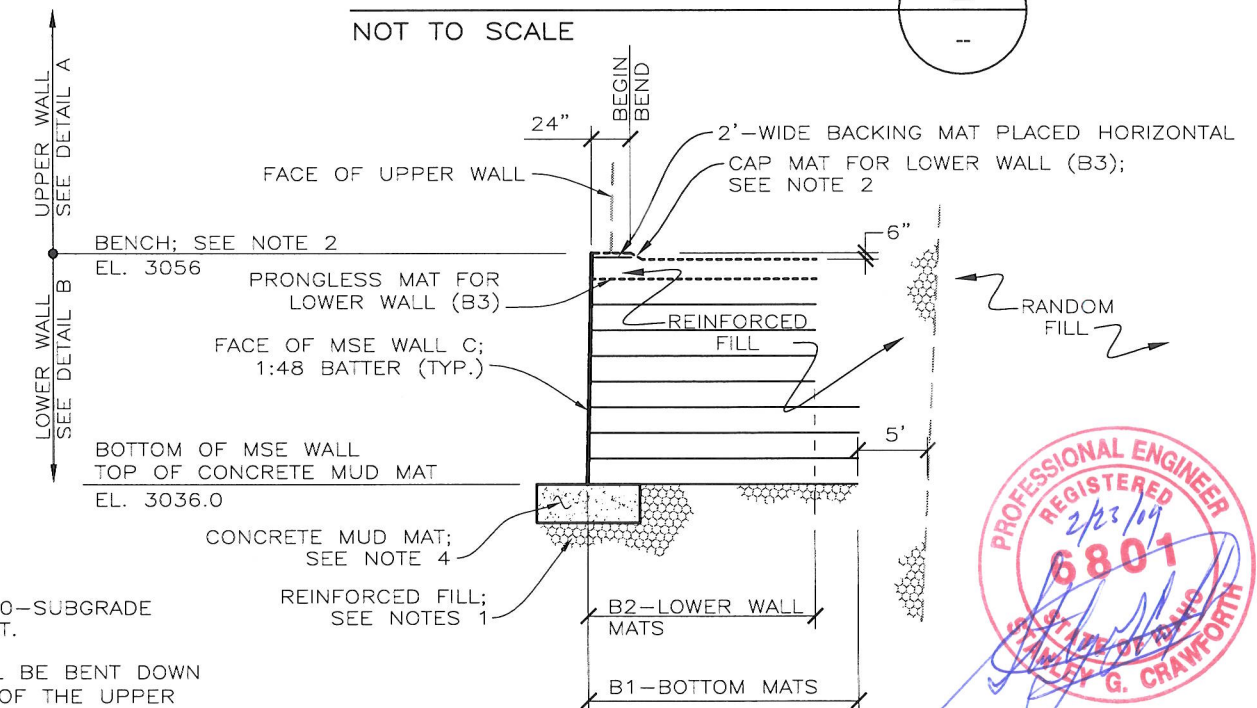
3
SHEET 3



**TYPICAL UPPER WALL
STA. 0+00 TO 2+00**

NOT TO SCALE

2



**LOWER WALL
STA. 0+00 TO 0+32**

NOT TO SCALE

4

NOTES:

1. SEE SPECIFICATION SECTION 02200-SUBGRADE PREPARATION AND FILL PLACEMENT.
2. CAP MAT FOR LOWER WALL SHALL BE BENT DOWN 6" BEGINNING BEHIND THE FACE OF THE UPPER WALL.
3. BETWEEN APPROXIMATELY STATION 0+24 AND 1+36, THE TOE OF THE MSE WALL SHALL BE FOUNDED ON COMPETENT ROCK OR CONCRETE MUD MAT AS INDICATED ON SECTION 1, SHEET 6 OF 8. CONCRETE SHALL COMPLETELY FILL ALL BEDROCK DEPRESSIONS WITHIN 4 FEET OF THE WALL FACE AS SHOWN. CONCRETE SHALL FORM A LEVEL SURFACE BENEATH THE TOE OF WALL AS SHOWN. THE CONCRETE SURFACE SHALL BE FINISHED WITH A ROUGH RAKE SURFACE. CHIP HIGH ROCK AS REQUIRED TO FORM A LEVEL FOUNDATION.
4. BETWEEN APPROXIMATELY STATION 0+00 AND 0+24, THE MUD MAT SHALL BE AT LEAST 3 FEET THICK FOUNDED ON REINFORCED FILL.
5. BETWEEN APPROXIMATELY STATION 1+36 AND 2+00, THE MSE WALL SHALL BE FOUNDED ON PROPERLY COMPACTED SOIL.

**MSE WALL A
Arrorock Dam Powerhouse
Sections**

File No.
08B-G1705.1

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**AMERICAN
GEO
TECHNICS**

STEP 1

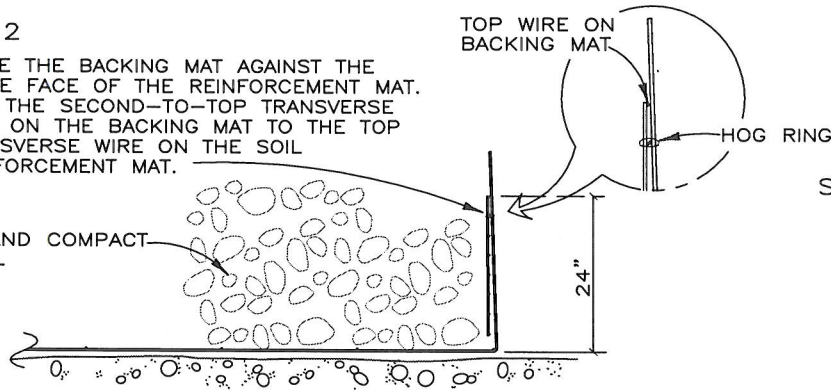
PLACE THE FIRST COURSE OF REINFORCEMENT MATS ON PREPARED FOUNDATION



STEP 2

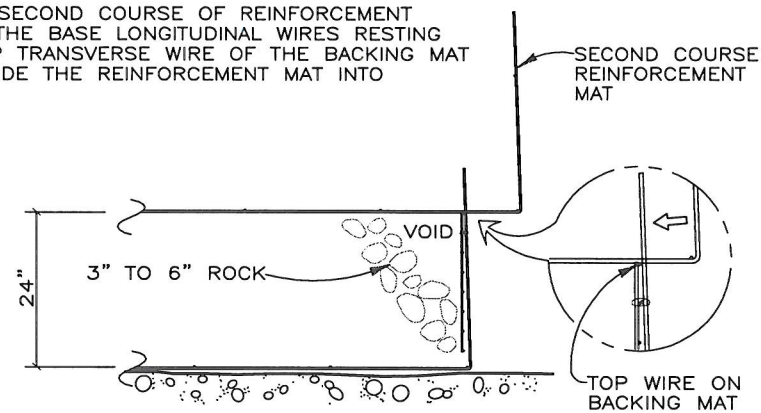
PLACE THE BACKING MAT AGAINST THE INSIDE FACE OF THE REINFORCEMENT MAT. CLIP THE SECOND-TO-TOP TRANSVERSE WIRE ON THE BACKING MAT TO THE TOP TRANSVERSE WIRE ON THE SOIL REINFORCEMENT MAT.

PLACE AND COMPACT BACKFILL



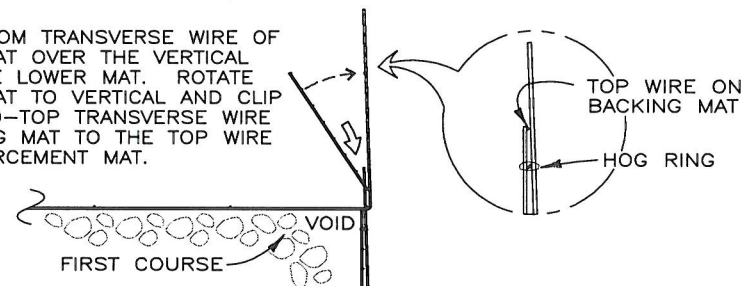
STEP 3

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



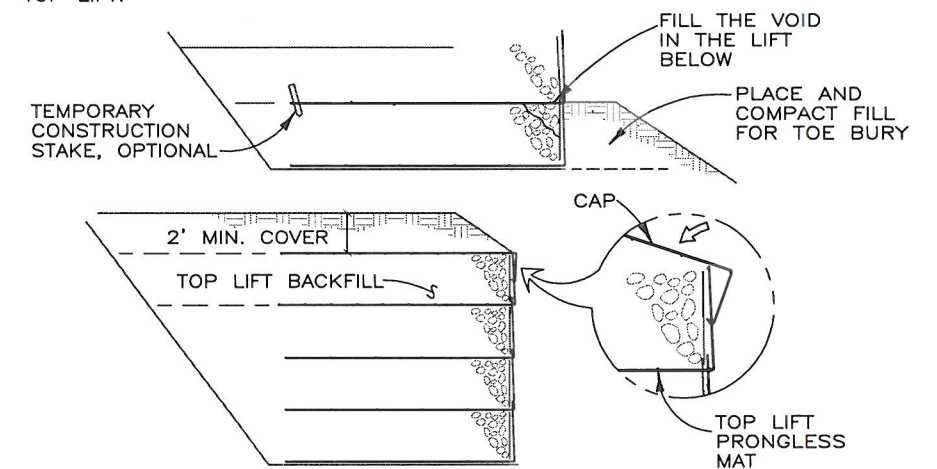
STEP 4

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 REINFORCEMENT MAT.



STEP 5

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 AND BACKING MAT. 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

8"x12" WWF CAP MAT

8"x12" WWF PRONGLESS MAT, TOP LIFT ONLY

4"x3" WWF BACKING MAT, 8' WIDE

8"x21" WWF STANDARD MAT

WWF PRONGLESS REINFORCEMENT MAT AND CAP, TOP LIFTS ONLY

COMPACTED WALL

WWF STANDARD MAT, TYPICAL

WWF BACKING MAT BEHIND MAT FACES

HEEL OF MAT

RETURN BACKING MAT AT EXPOSED END OF TOP LIFTS, TYPICAL

FACE OF WELDED WIRE WALL

8'-0" TYPICAL

WALL COMPONENTS
NOT TO SCALE

PICTORIAL ELEVATION
NOT TO SCALE



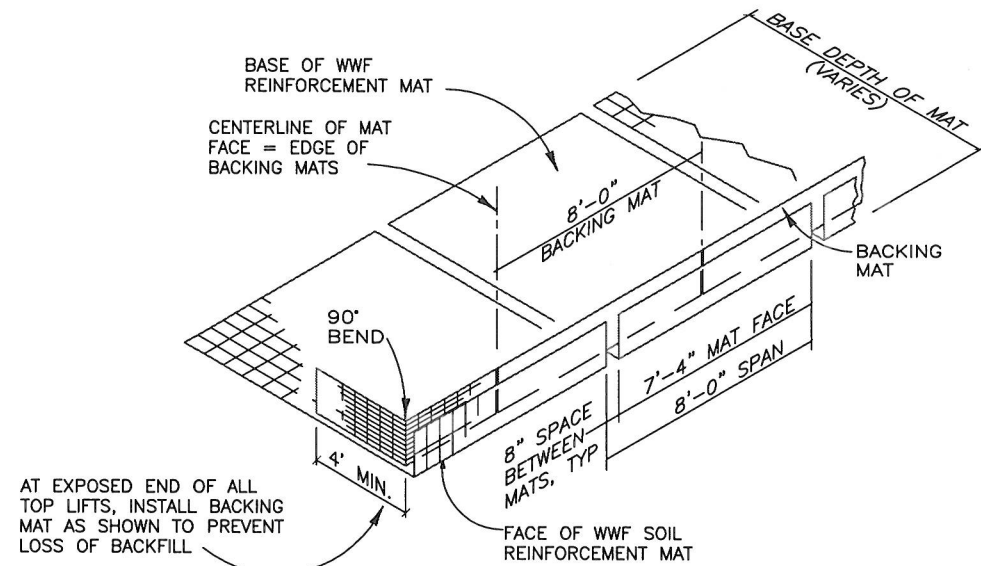
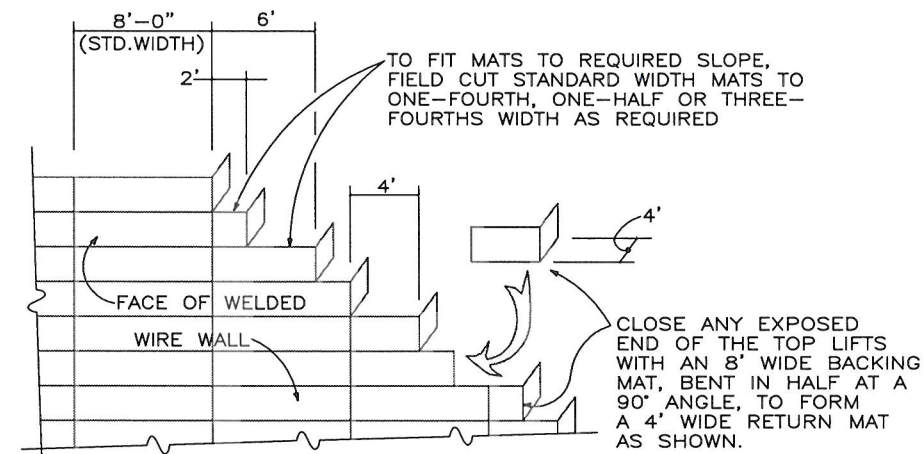
MSE WALL C
Arrorock Dam Powerhouse
Sequence Details

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08B-G1705.1

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Revision: 0

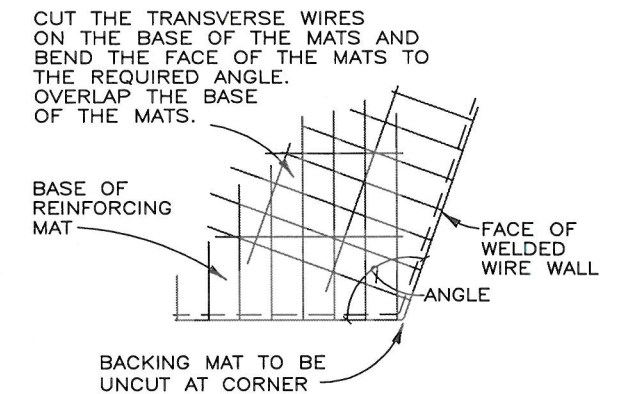
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ISOMETRIC VIEWWELDED WIRE WALL COMPONENTS WITH RETURN MAT
NOT TO SCALEPICTORIAL ELEVATIONPARTIAL TOP MAT DETAILS

NOT TO SCALE

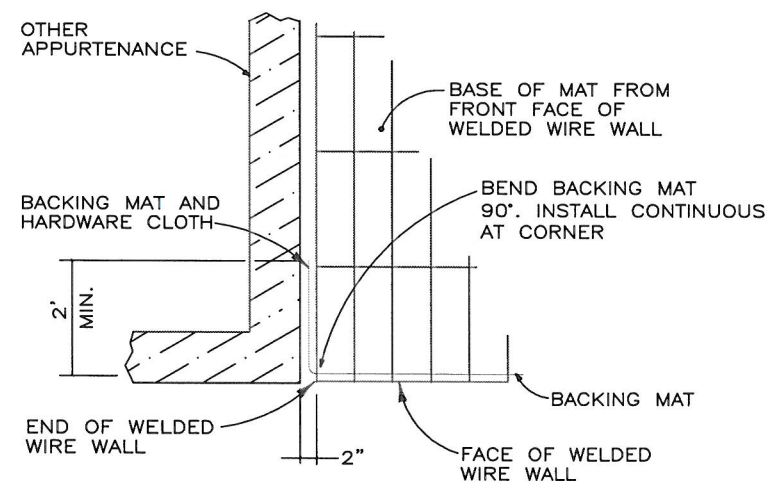
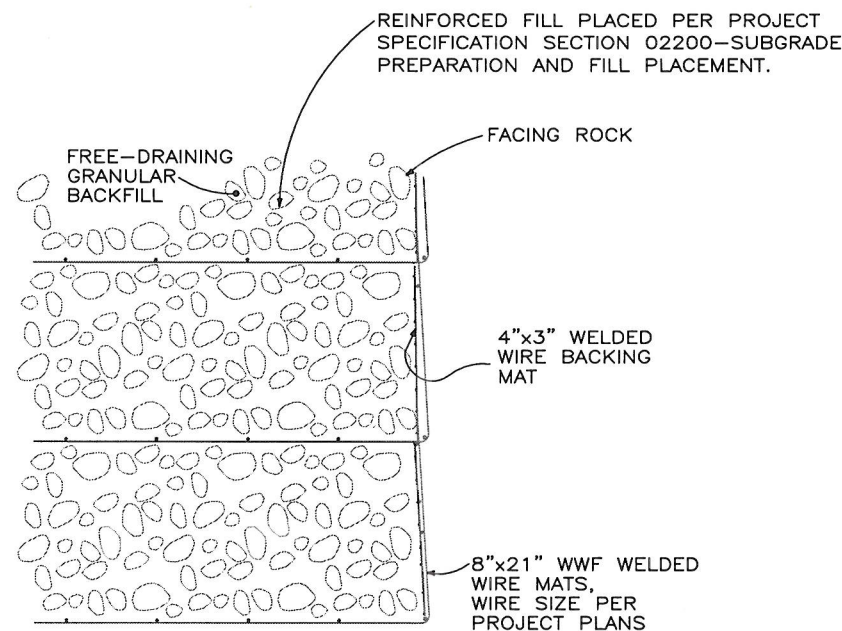
CAP MATS ARE NOT SHOWN FOR CLARITY

PLAN VIEWOBTUSE CONVEX ANGLE

NOT TO SCALE

B

SHEET 2

PLAN VIEWWELDED WIRE WALL END AT OTHER APPURTENANCE
NOT TO SCALESECTIONROCK FACING DETAIL

NOT TO SCALE



MSE WALL C
Arrorock Dam Powerhouse
Construction Details

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