











## **DESIGN NOTES:**

- 1. DESIGN IS BASED ON THE ASSUMPTION THAT THE BACKFILL WITHIN THE REINFORCED VOLUME, METHODS OF CONSTRUCTION AND QUALITY OF MATERIALS CONFORM TO THE REQUIREMENTS OF THE HILFIKER COMPANY AND THESE PLANS AND SPECIFICATIONS.
- 2. SPECIFICATIONS AND CALCULATIONS BY AMERICAN GEOTECHNICS, ALONG WITH THE HILFIKER RETAINING WALLS CONSTRUCTION GUIDE, ARE AN INTEGRAL PART OF THESE DRAWINGS.
- 3. THE PROJECT PLANS CONTAIN NOTES SPECIFIC TO THE CONSTRUCTION OF EACH WALL AND ARE INTEGRAL TO THE CONSTRUCTION OF THE HILFIKER WALLS.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING THE WALL LAYOUT LINE (WLOL) FROM THE REFERENCE LINE INFORMATION PROVIDED IN THE PROJECT PLANS. THE PROJECT PLANS ARE INTEGRAL TO THE CONSTRUCTION OF THE HILFIKER MSE WALLS.
- 5. CONTRACTOR SHALL PROVIDE FALL PROTECTION FOR WORKERS AND EQUIPMENT DURING CONSTRUCTION IN COMPLIANCE WITH OSHA AND ANY OTHER APPLICABLE REQUIREMENTS.
- 6. THE FOLLOWING DESIGN PARAMETERS HAVE BEEN UTILIZED:

SOIL TYPE	<u>PHI</u>	COHESION	UNIT WT.
REINFORCED BACKFILL	40 DEGREES	0 PSF	130 PCF
RETAINED SOIL	30 DEGREES	0 PSF	120 PCF
FOUNDATION SOIL	O DEGREES	30,000 PSF	140 PSF

- 7. ANALYSIS PERIOD IS 100 YEARS. AASHTO CORROSION RATES WERE ASSUMED.
- 8. IF ACTUAL CHARACTERISTICS, GRADES OR DIMENSIONS OF SOIL MATERIALS DIFFER FROM THOSE LISTED ABOVE OR AS SHOWN IN THESE PLANS OR SPECIFICATIONS, AMERICAN GEOTECHNICS SHALL BE NOTIFIED TO EVALUATE THE NEED TO REDESIGN.
- 9. SEE THE HILFIKER RETAINING WALLS INSTALLATION GUIDE FOR MATERIALS HANDLING AND CONSTRUCTION.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR ROUTING STORM WATER DRAINAGE AWAY FROM THE WALL DURING CONSTRUCTION.
- 11.THE CONTRACTOR IS RESPONSIBLE FOR DEWATERING AND IMPLEMENTING AN ACCEPTABLE SEDIMENT AND EROSION CONTROL PLAN, TOGETHER WITH REQUIRED AGENCY PERMITS AND NOTIFICATIONS.
- 12.IF EXISTING OR FUTURE STRUCTURES, PIPES, FOUNDATIONS OR GUARDRAIL POSTS, WHICH ARE WITHIN THE REINFORCED BACKFILL, INTERFERE WITH THE NORMAL PLACEMENT OF REINFORCEMENTS AND SPECIFIC DIRECTION HAS NOT BEEN PROVIDED ON THE PLANS, THE CONTRACTOR SHALL CONSULT WITH THE OWNER AND AMERICAN GEOTECHNICS TO DECIDE AN APPROPRIATE COURSE OF ACTION.

## NOTES REGARDING CRANE LOADING AT TOP OF WALL:

- I. MAXIMUM ALLOWABLE OUTRIGGER LOADING IS 56,580 LBS.
- 2. OUTRIGGER PADS SHALL BE MINIMUM 3' X 3' SQ.
- 3. OUTRIGGER SET-BACK FROM FACE OF WALL IS 6' MIN.
- 4. CRANE LOAD ALLOWED SOLELY WITHIN 72' OF THE NORTH END OF THE WALL.



Design Notes

Upper Salmon Power Plant MSE Wall

File No. 02761.2

December 29, 2017

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