FOUNDATION SOIL:

HEIGH

DESIGN

WALL

WALL

ODOT SHOULD BE INFORMED THAT THIS DESIGN IS BASED UPON THEIR AGREEMENT THAT THE FOLLOWING CONDITIONS CAN OCCUR.

- 1) THE REINFORCD STEEPENED SLOPE IS NOT INTENDED TO PROVIDE FOR GLOBAL HILLSIDE STABILITY. THE INTENTION OF THIS DESIGN IS TO PROVIDE ROCKSLIDE MITIGATION AND SURFICIAL
- 2) THE MATERIAL TO BE USED WITHIN AND UNDER THIS DESIGN IS A SAND/GRAVEL COHESIONLESS SOIL WITH AN INTERNAL FRICTION ANGLE OF 45-46 DEGREES. THE USE OF THIS SPECIALIZED MATERIAL IS ESSENTIAL FOR THIS DESIGN, FOR AVOIDING THE USE OF SOIL NAILS AND ALLOWING THE REINFORCED DESIGN DEPTH (+20') TO WORK.
- 3) MOST OF THE GUILDLINES USED IN THE FEDERAL HIGHWAY ADMIN. PUBLICATION NO. FHWA-NHI-00-043 ARE MET INCLUDING FACTORS OF SAFETY FOR TRANSLATION FAILURE OR DIRECT SLIDING AND PULL OUT FAILURE.

KIRK CESARETTI, PE

FACE MAT PRIMARY MAT TYPICAL (STEEPENED SLOPE WALL) FACE OF STEEPENED SLOPE WALL (RSS) FOUNDATION MAT BOTTOM LIFT OF STEEPENED SLOPE WALL ONLY DEFLECT CAP MAT AS NEEDED BELOW FOUNDATION MAT OF STEEPENED SLOPE WALL PRONGLESS MAT TOP LIFT OF WELDED WIRE WALL ONLY STANDARD MAT TYPICAL (WELDED WIRE WALL) DRAINAGE SYSTEM IF REQUIRED. DESIGN AND SUPPLY OF DRAIN IS NOT WITHIN HILFIKER'S SCOPE OF WORK.

## SUPPLIED QUANTITIES:

· 18" MIN. COVER

TOP OF STEEPENED SLOPE WALL (RSS)

WELDED WIRE WALL M3 AREA: 16,056 SF GABION WALL M3 TOTAL: 1,398 CY STEEPENED SLOPE RSS AREA: 101,352 SF

## PROJECT-SPECIFIC NOTES:

- 1. REFERENCE DRAWINGS: PLANS FROM THE OREGON DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, OREGON DIVISION APPROVED 24 JUNE 2009. SHEETS 1A, 2C-3, 9, GC-23, GC-24GC-26.
- 2. IT IS ASSUMED THAT ALL MATERIALS, BACKFILL AND CONSTRUCTION METHODS FOR HILFIKER M.S.E. WALLS AND/OR GABIONS WILL CONFORM TO HILFIKER'S SPECIFICATIONS AND/OR THOSE OF THE HILFIKER ENGINEERING CONSULTANT.
- 3. THIS IS NOT AN ENGINEERED SUBMITTAL. 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.
- 4. UPON ENGINEERED DESIGN, 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/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL JOB SITE DRAINAGE, SAFETY AND FALL PROTECTION PROVISIONS FOR WORKERS IN COMPLIANCE WITH OSHA AND ANY OTHER APPLICABLE REQUIREMENTS.
- 5. WALL DESIGN SHALL REQUIRE A NON-SATURATED BACKFILL. SURFACE AND SUBSURFACE DRAINAGE CONTROL MAY BE REQUIRED TO PREVENT SATURATION OF THE BACKFILL OR TO RELIEVE HYDROSTATIC PRESSURES. DRAINAGE CONTROL SHALL BE AS SPECIFIED IN THE OWNER'S PROJECT PLANS AND SPECIFICATIONS, OR AS DIRECTED BY THE OWNER'S ENGINEER.

BID DUE: 5 NOV. 09

THIS DRAWING IS FURNISHED SOLELY FOR THE USE OF OR IN CONNECTION WITH THIS PROMUTED THE USE OF OR IN CONNECTION WITH THIS PROJECT AND THE PROPRIETARY INFORMATION OF SHOWN HEREON IS NOT TO BE TRANSMITTED TO ANY OTHER ORGANIZATION WITHOUT SPECIFIC AUTHORIZATION BY THE HILFIKER COMPANY. HILFIKER RETAINING WALLS ARE PROTECTED BY ONE OR MORE OF THE FOLLOWING PATENTS: 243,613; 243,697; 288,616; 4,117,686; 4,329,089; 4,324,508; 4,391,557; 4,505,621; 0,4,343,318; 4,661,023; 4,856,939; 4,929,125; 0,5,076,735; 5,647,695; 5,722,799; 5,733,072; 0,6,357,970B1; 6,874,975B2; 7,033,118B2; AND OTHERS. OTHER PATENTS PENDING (2008) DATE BY DESCRIPTION

GRAPHIC SCALE LINE IS 20 UNITS LONG ON ORIGINAL DRAWING 20

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20' MIN.

■ BASE OF WALL ■

TYPICAL SECTION AT STA. 728+01

GABION WALL (M3)

2' TYP.

SLOPED CAP VARIES

FINISH

GRADE

FACE OF WELDED

WIRE WALL (M3)

2' MIN. TOE BURY

SCALE: 1" = 25"

PROJ.MGR ВH **ENGINEER** CADD BY

AMJ

1902 Hilfiker Lane Eureka, CA 95503-57 TOLL-FREE 800.762.8962 PH 707.443.5093 FAX 707.443.2891 WEB SITE www.hilfiker.com E-MAIL info@hilfiker.com



HILFIKER	RETAINING	WALLS	28 OCT	-
	1902 Hilfiker Lane Eureka, CA 95503-5711	å602,	REVISION	DA

SCALE

NOTED

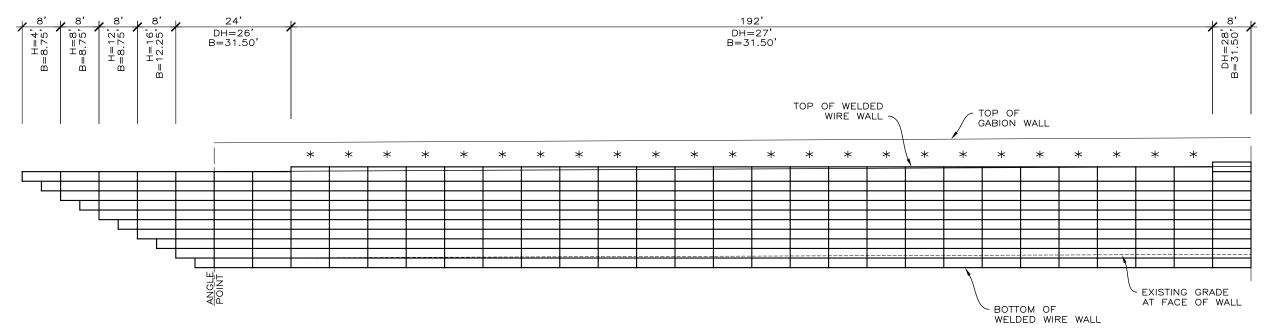
09 ATE

FOR BIDDING PURPOSES ONLY WELDED WIRE RETAINING WALL - 2' LIFT US 97 MODOC POINT TO

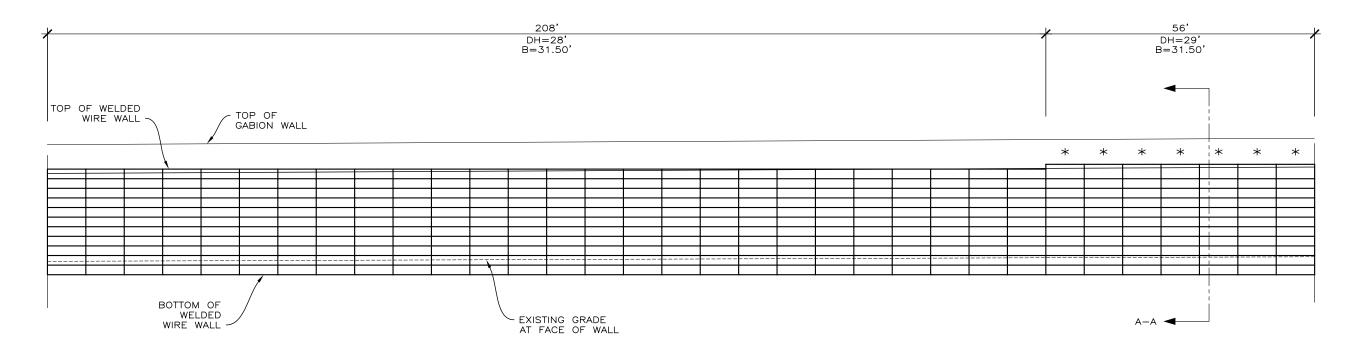
HAGELSTEIN PARK OREGON DEPT. OF TRANSPORTATION THE DALLES, OR TYPICAL SECTION

**PROJECT** 090914CW SHFFT

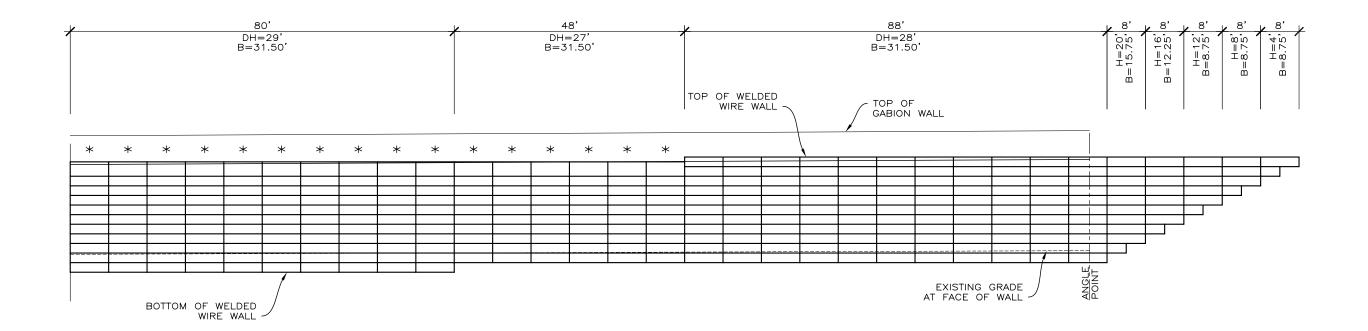
1 OF



DEVELOPED ELEVATION - WELDED WIRE/GABION WALL SCALE: 1" = 20'



<u>DEVELOPED ELEVATION - WELDED WIRE/GABION WALL CONT'D</u>
SCALE: 1" = 20'



## DEVELOPED ELEVATION - WELDED WIRE/GABION WALL CONT'D SCALE: 1" = 20'

AT ON 090914CW US 97:MODOC POINT TO HAGELSTEIN

WWWALL M3 FACE AREA: GABION WALL M3

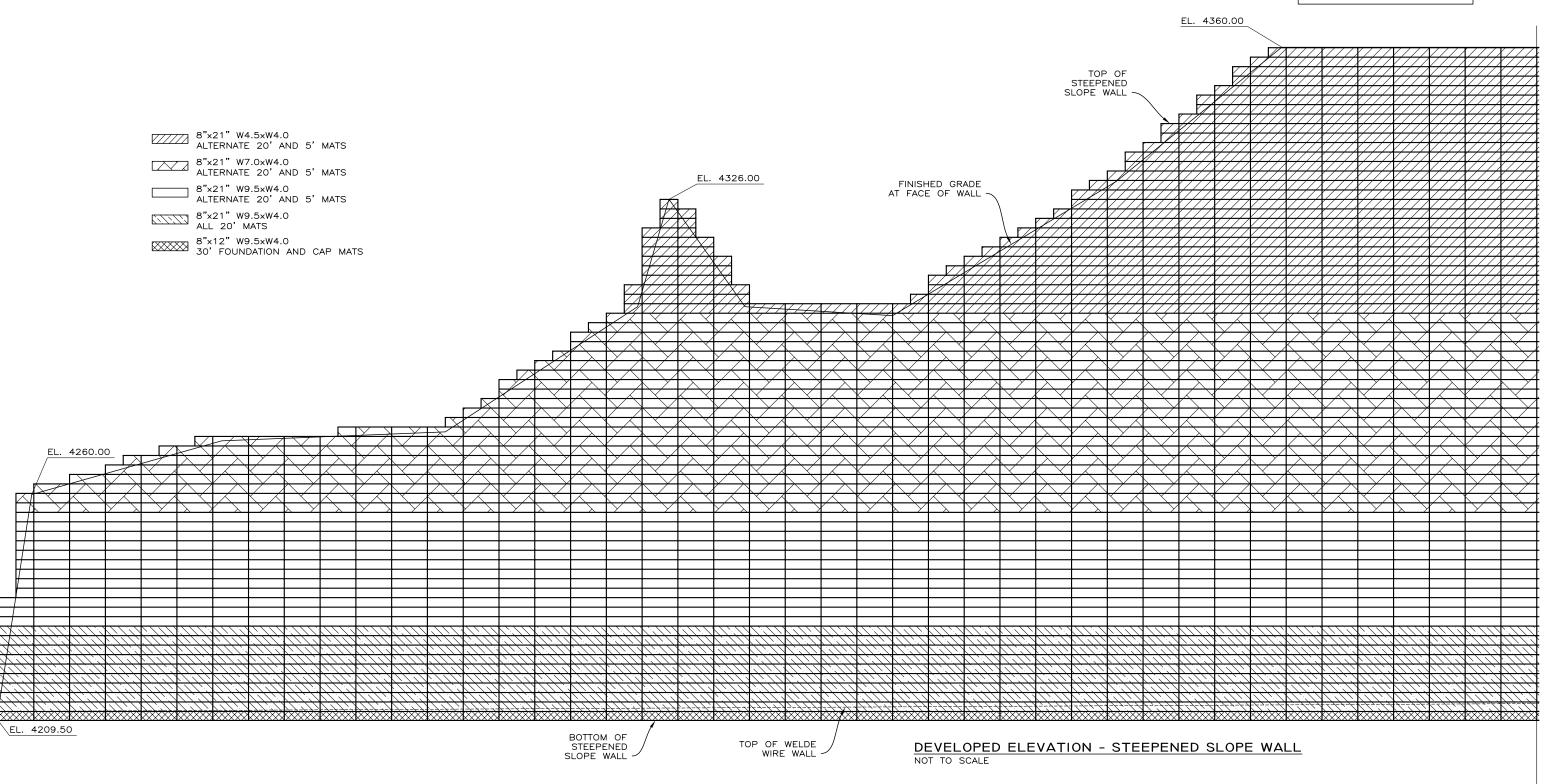
16,056 SQ. FT.

GABION WALL M3: GABIONS AT BEGINING AND END OF GABION WALL ARE NOT SHOWN.

12x6x3 116 12x3x3 116 6x6x3 3 6x3x3 3 TOTAL: 1,398 CY

090914CW US 97:MODOC POINT TO HAGELSTEIN PARK SEC.

FACE AREA: 99,960 SQ. FT. FOUNDATION: 1,392 SQ. FT. TOTAL AREA: 101,352 SQ. FT.



EL. 4211.50

