

NOTE:
 THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON THE BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP (FORMERLY JEFF MORTENSEN AND ASSOC., INC.), NMPs NO. 11184, DATED JANUARY, 2007. TOPOGRAPHIC INFORMATION IS BASED UPON A TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING GROUP (FORMERLY JEFF MORTENSEN AND ASSOC., INC.) DATED JANUARY, 2007, NMPs NO.11184.

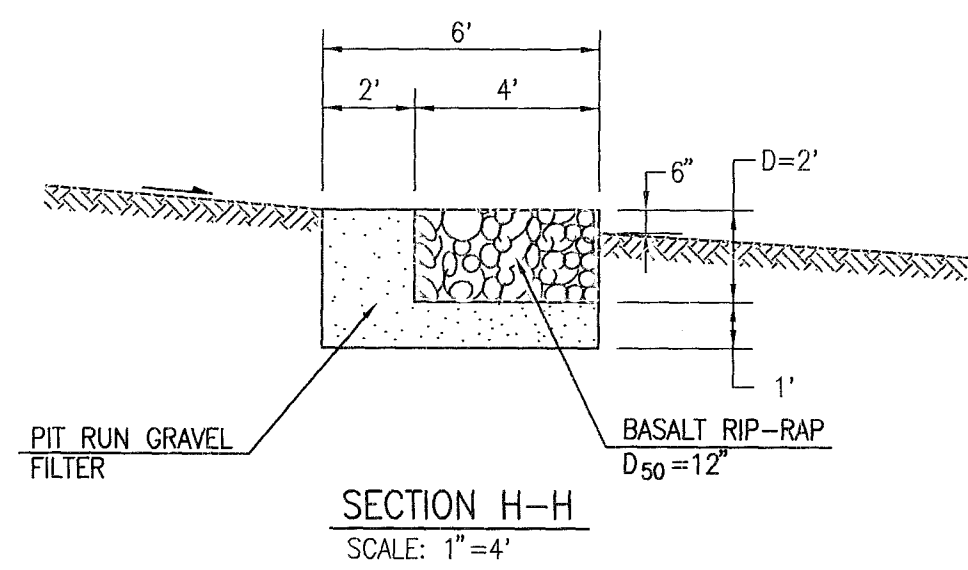
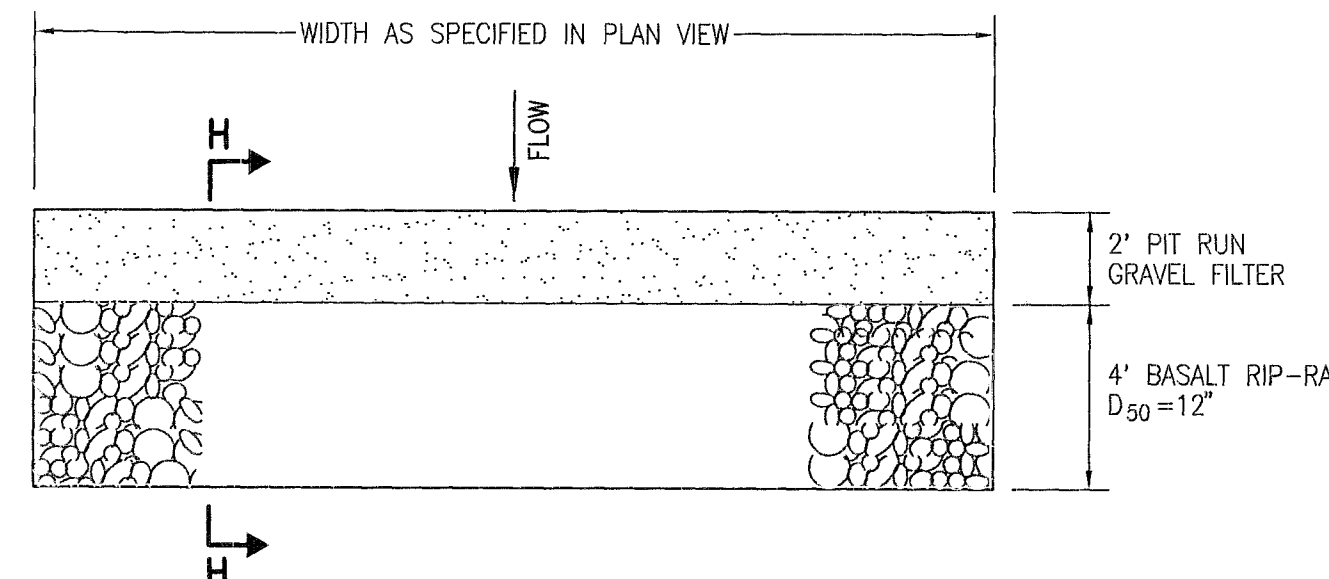
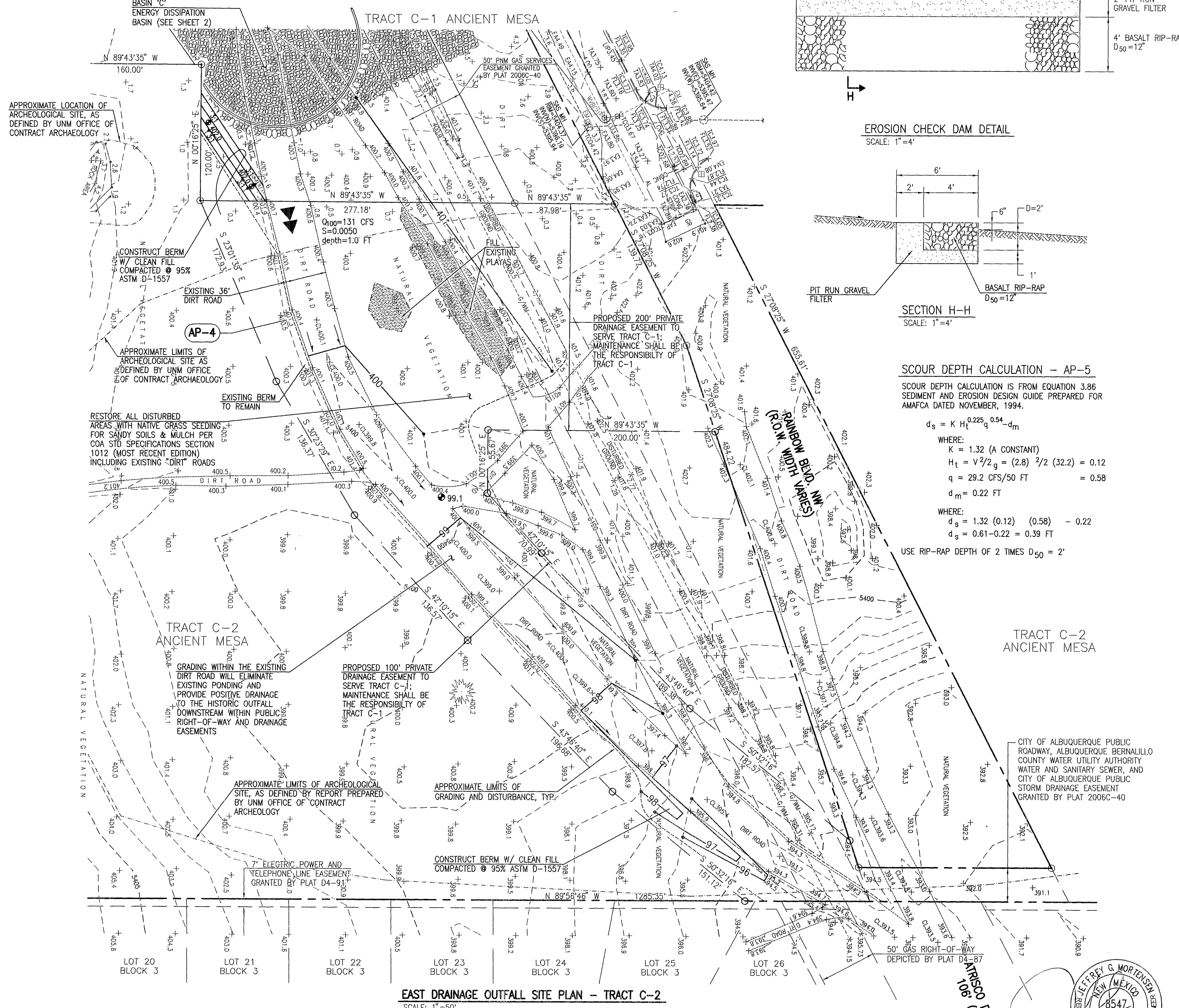
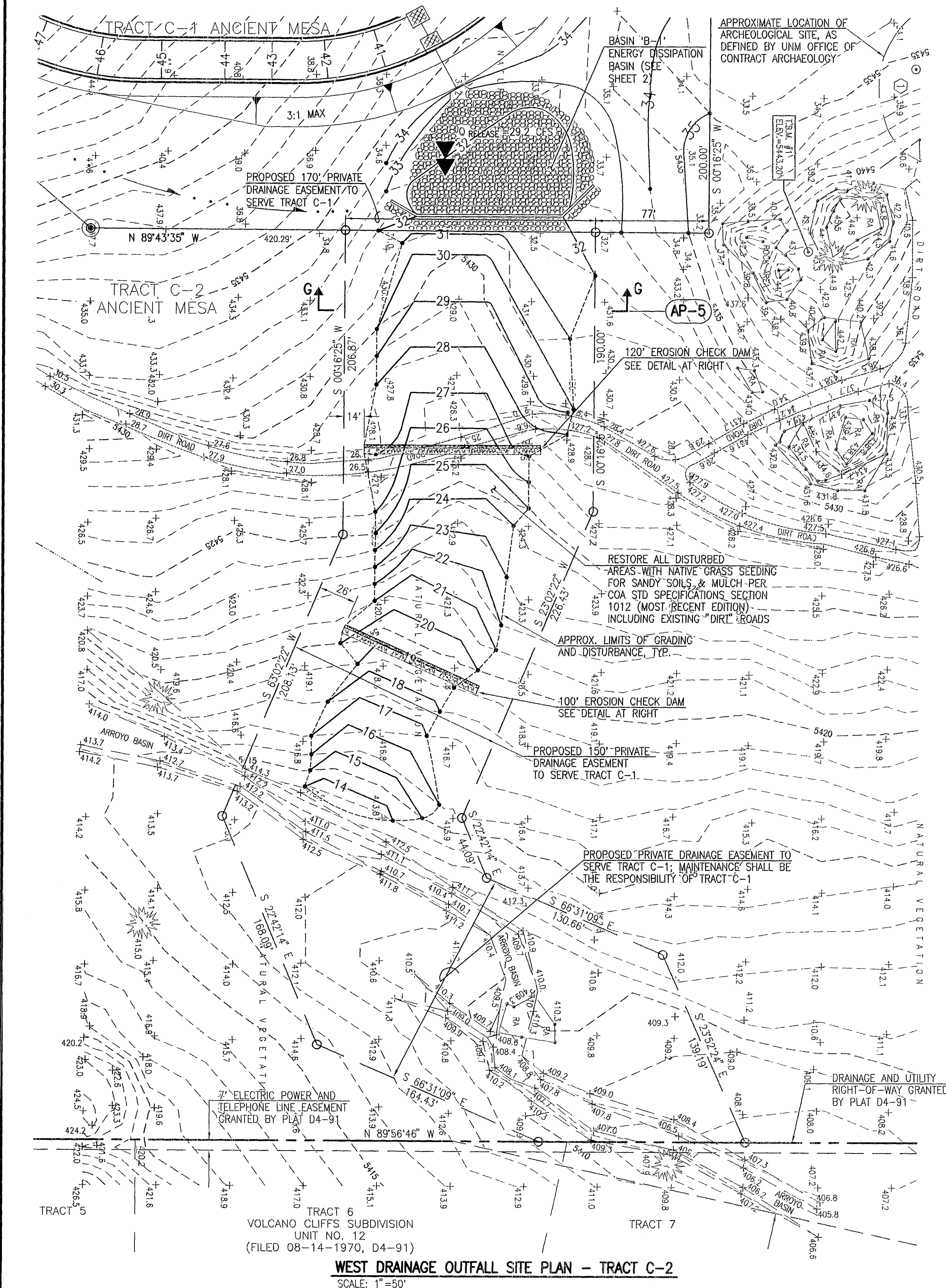
ARCHAEOLOGY NOTE:
 THE MINIMAL GRADING AND RESTORATIVE WORK SPECIFIED WITHIN THE WEST DRAINAGE OUTFALL SITE MUST BE MONITORED BY THE U.N.M. OFFICE OF CONTRACT ARCHEOLOGY (RICHARD C. CHAPMAN, Ph.D., 277-5853).

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MASTER DRAINAGE PLAN DRAINAGE OUTFALL SITE PLANS - TRACT C-2 TRACTS C-1 AND C-2 ANCIENT MESA

ARCHAEOLOGY NOTE:
 THE MINIMAL GRADING AND RESTORATIVE WORK SPECIFIED WITHIN THE EAST DRAINAGE OUTFALL SITE PLAN MUST BE MONITORED BY THE U.N.M. OFFICE OF CONTRACT ARCHEOLOGY (RICHARD C. CHAPMAN, Ph.D., 277-5853).

DESIGNED BY	DATE	BY	REVISIONS	JOB NO.
G.R.B.	10/07	G.R.B.	REVISE PLAN FOR FINAL PLAT APPROVAL; ADD THIS SHEET.	2006.187.6
DRAWN BY	12/07	G.R.B.	REVISE MASTER DRAINAGE REPORT (SHEET 1)	DATE
APPROVED BY		J.G.M.		09-2007
				SHEET 4 OF 4



SCOUR DEPTH CALCULATION - AP-5

SCOUR DEPTH CALCULATION IS FROM EQUATION 3.86 SEDIMENT AND EROSION DESIGN GUIDE PREPARED FOR AMAFCA DATED NOVEMBER, 1994.

$$d_s = K H_t^{0.225} q^{0.54} d_m$$

WHERE:
 $K = 1.32$ (A CONSTANT)
 $H_t = V^2/2g = (2.8)^2/2(32.2) = 0.12$
 $q = 29.2 \text{ CFS/50 FT} = 0.58$
 $d_m = 0.22 \text{ FT}$

WHERE:
 $d_s = 1.32 (0.12) (0.58) = 0.22$
 $d_s = 0.61 - 0.22 = 0.39 \text{ FT}$

USE RIP-RAP DEPTH OF 2 TIMES $d_{50} = 2'$

CITY OF ALBUQUERQUE PUBLIC ROADWAY, ALBUQUERQUE, BERNALILLO COUNTY WATER UTILITY AUTHORITY WATER AND SANITARY SEWER, AND CITY OF ALBUQUERQUE PUBLIC STORM DRAINAGE EASEMENT GRANTED BY PLAT 2006C-40

10-11-2007
 12-19-2007
 JEFFREY G. MORTENSEN
 8547
 REGISTERED PROFESSIONAL ENGINEER