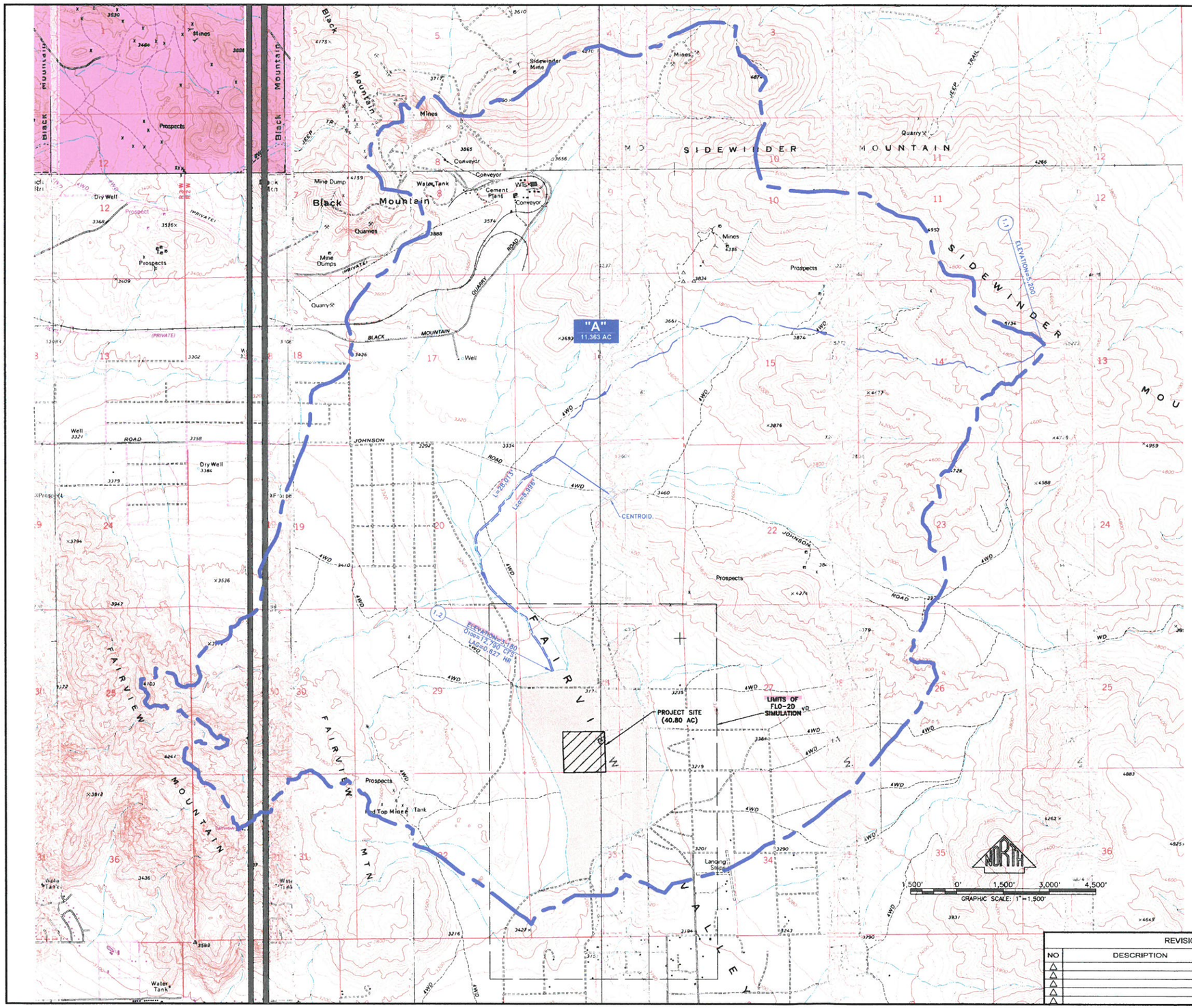

PRECIPITATION VALUES (NOAA ATLAS 14, AREA-AVERAGED):

STORM FREQUENCY	DURATION	AREA-AVERAGED PRECIPITATION (IN)
100-YEAR	1-HOUR	1.45
	6-HOUR	2.78
	24-HOUR	4.96

WATERSHED LOSSES INPUT VALUES:

% OF WATERSHED	APPROX. ACREAGE	RUNOFF INDEX COVER TYPE	HYDROLOGIC GROUP	COVER QUALITY	SCS CURVE NO.
36%	4,090.68	OPEN BRUSH	A	POOR	62
12%	1,363.56	OPEN BRUSH	B	POOR	76
8%	909.04	OPEN BRUSH	C	POOR	84
44%	4,999.72	BARREN (ROCKLAND)	D	N/A	93

UNIT HYDROGRAPH METHOD INPUT VALUES:

DRAINAGE AREA	SIZE (AC)	PERVIOUS %	LONGEST WATERCOURSE (FT)	LCA (FT)	U.S. ELEV. (FT)	D.S. ELEV. (FT)	CHANGE (FT)	MANNING'S
A	11,363	100%	28,013	8,996	5,200	3,180	2,020	0.035

UNIT HYDROGRAPH METHOD OUTPUT CALCULATIONS:

STORM YEAR	STORM DURATION	TC (HR)	PEAK FLOW (CFS)	TOTAL RUNOFF (AF)
100	24-HOUR	0.627	12,790	3,795
100	5-DAY	0.627	12,790	6,740

HYDROLOGY MAP LEGEND:

- PROJECT SITE LIMITS
- DRAINAGE SUBAREA LIMITS
- LENGTH OF LONGEST WATERCOURSE
- Lca WATERCOURSE
- DRAINAGE AREA CENTROID

HYDROLOGY MAP NOTES:

1. TOPOGRAPHIC MAPPING (USGS QUADRANGLES) OBTAINED FROM THE USGS SEAMLESS DATA DISTRIBUTION RESOURCE.
2. HORIZONTAL COORDINATE SYSTEM FOR THIS MAP IS CALIFORNIA STATE PLANE, N.A.D. 1983, ZONE V.
3. UNIT HYDROGRAPH METHOD CALCULATIONS PERFORMED USING SOFTWARE PROVIDED BY CIVILDESIGN CORPORATION.

REVISIONS			
NO	DESCRIPTION	BY	APPROVED

HYDROLOGY STUDY MAP

PROPOSED SIGMA CLAY MINE
APN 0464-022-54-0000 (SEC. 28, T.6N, R.2W, S.B.M.)
LOCATED IN THE COUNTY OF SAN BERNARDINO, CA

PREPARED FOR: WEBBER & WEBBER

DRAWN BY: JDN	SCALE: 1" = 1,500'	SHEET: 1 OF 1	C
CHECKED BY: JJG	JOB NO: 103651		
DISREGARD PRINTS BEARING EARLIER REVISION DATES →	10-05-10		