G 15 - D 1

1 PLAN

C.A. (PAT) COONCE & ASSOC.
ENVIRONMENTAL, WATER RESOURCES, & SANITARY CONSULTING ENGINEERS

12324 PINERIDGE, N.E.
ALBUQUERQUE, N.M. 87112

PHONE (505) 296-1089

DRAINAGE REPORT

CRIST MACHINERY AND SUPPLY CO.
721 CANDELARIA NE

PREPARED FOR:

DURA BILT PRODUCTS, INC.
4808 JEFFERSON N. E.
ALBUQUERQUE, NEW MEXICO 87109

PREPARED BY:

C. A. COONCE & ASSOCIATES
12324 PINERIDGE N. E.
ALBUQUERQUE, NEW MEXICO 87112

C.A. (PAT) COONCE & ASSOC.
ENVIRONMENTAL, WATER RESOURCES, & SANITARY CONSULTING ENGINEERS

12324 PINERIDGE, N.E.
ALBUQUERQUE, N.M. 87112

PHONE (505) 296-1089

GENERAL:

This letter report is a hydrologic study of drainage affecting a planned addition to the Crist Machinery and Supply Co. located at 721 Candelaria N. E. The area is described as Lot 2, Schmider Parcel, containing approximately 2.5 acres and is zoned M-1.

UNALTERED DRAINAGE:

The drainage area (on site) is approximately 2.5 acres. The terrain slopes west southwest at an average slope of 2.5%.

The offsite drainage across this site is from the existing Crist Machinery and Supply Co. buildings to the east of this site. There is no defined drainage channel across this property.

ALTERED DRAINAGE:

The recommended drainage plan is to drain the lot in the same direction and amounts as the current unaltered lot.

TABLE OF ALTERED AREAS AND COEFFICIENTS

Lot Area	107,079 $ft.^2$
Parking, Drives and Sidewalks	22,148 $ft.^2$
Roof	19,299 $ft.^2$
Impervious Area	41,447 $ft.^2$
Pervious Area	65,632 $ft.^2$
Estimated Pervious c	0.35
Estimated Impervious c	0.90
Estimated Altered c	0.56
Δc	0.21
100 Year Rainfall	2.2 inches
Ponding Volume Required	4,123 $ft.^3$
Ponding Provided	4,800 $ft.^3$

C.A. (PAT) COONCE & ASSOC.
ENVIRONMENTAL, WATER RESOURCES, & SANITARY CONSULTING ENGINEERS

12324 PINERIDGE, N.E.
ALBUQUERQUE, N.M. 87112

PHONE (505) 296-1089

The client desires to use a rock filled seepage pit as a water holding and percolation device so that the space can also double as a display area for heavy equipment. The void space is estimated at 50%.

RECOMMENDATION:

The implementation of the plan outlined in this report will comply with Drainage Resolution 72-2 and will result in no added hazard to downstream property.