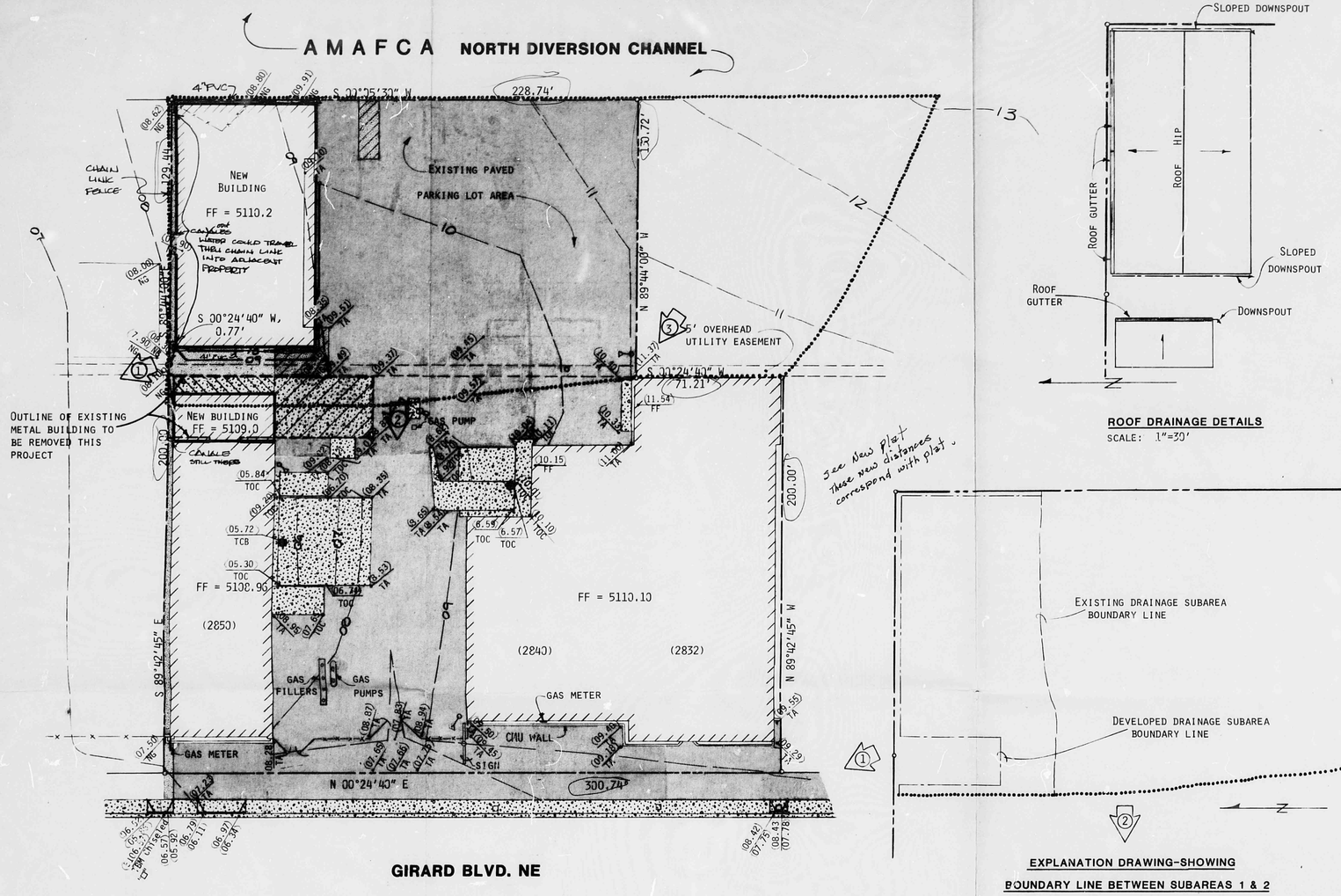
HYDROLOGY

H-16/D62

H16 / D62

WAREHOUSING Com-
PANY OF N.M. BLDG.
ADD'N.

/ PLAN



NOTE: BOUNDARY & TOPOGRAPHIC SURVEY BY JOHN F. ESQUIVEL, N.M.L.S. #5949, A & E ENGINEERING, INC.

GRADING & DRAINAGE PLAN

SCALE: 1" = 30'

ROOF DRAINAGE DETAILS

SCALE: 1"=30'

EXPLANATION DRAWING-SHOWING BOUNDARY LINE BETWEEN SUBAREAS 1 & 2

SCALE: 1" = 30'

DRAINAGE INFORMATION & CALCULATIONS

A. LEGAL DESCRIPTION: A PORTION OF BLOCK D OF COLE'S INDUSTRIAL SUBDIVISION AND A PORTION OF BLOCKS A & D OF THE DUKE CITY INDUSTRIAL AREA SUBDIVISION.

B. BENCH MARKS

CITY BENCH MARK: 6-H16. STATION IS AN AMAFCA R.O.W. CAP SET IN CONCRETE POST FLUSH WITH GROUND, STAMPED "6-H16, 1975, ACS". IT IS LOCATED 42.4 FEET NORTH OF CENTERLINE ON CANDELARIA ROAD NE AND 49.5 FEET NW FROM THE NW POST OF THE AMAFCA NORTH DIVERSION CHANNEL BRIDGE.
ELEVATION: 5112.162 FEET

SITE BENCH MARK: CHISELED "□" ON TOP OF EAST CURB OF GIRARD BLVD. OPPOSITE NW CORNER OF BUILDING AT 2850 GIRARD NE.
ELEVATION: 5106.57

C. FLOOD HAZARD: THE SITE IS NOT LOCATED WITHIN ANY FLOOD HAZARD ZONES

D. WATERSHED SOILS: SCS SOIL WEB, HYDROLOGIC SOIL GROUP B

E. RAINFALL: 6 HOUR RAINFALL VOLUME, P = 2.2" (DPM, 22.2 D-1); RAINFALL INTENSITY, I = 2.2 x 2.2" = 4.84"/HR.

F. RUNOFF CALCULATION TABLE

AREA NO.	CONDITION EXISTING	CONDITION DEVELOPED	PERCENT IMPERVIOUS	C	I (IN/HR)	P (FT)	AREA (SF)	RUNOFF Q_{100} (CFS)	RUNOFF V_{100} (CU.FT)
(1)	X		13	0.39	4.84	0.10	11,610	0.5	815
		X	-0-	0.34	"	"	2,090	0.1	130
(2)	X		99	0.99	"	"	27,750	2.5	4,055
		X	100	1.00	"	"	32,270	3.6	5,810
(3)	X		-0-	0.34	"	"	15,360	0.6	940
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TOTAL SITE	X							3.6	5,810
		X						4.3	6,880

*NO DEVELOPMENT CONNECTED WITH THIS PROJECT IN THIS AREA

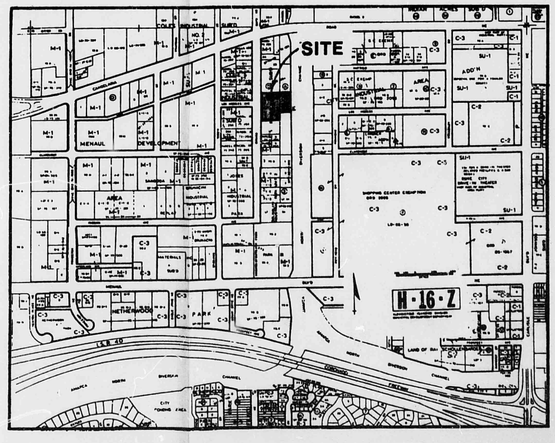
G. DRAINAGE AREA NO. 1 (1) EXPLANATION: EXISTING DRAINAGE AREA OF 11,610 SQ. FT. IS MOSTLY BARE EARTH SURFACE AND HISTORICALLY DRAINS NORTHERLY ONTO ADJACENT PROPERTY TO NORTH. PROPOSED CONSTRUCTION WILL REDUCE DRAINAGE AREA TO 2,090 SQ. FT., ALL OF WHICH WILL BE BARE EARTH SURFACE. NEW BUILDINGS WILL DIVERT RUNOFF INTO AREA 2 BY MEANS OF ROOF GUTTERS AND DOWNSPOUTS AND GRADING. SEE EXPLANATORY DRAWINGS AT LEFT FOR DETAILS ON ROOF DRAINAGE AND DRAINAGE AREA CHANGES RESULTING FROM PROPOSED CONSTRUCTION.

H. SUMMARY STATEMENT: RUNOFF FROM THE SITE WILL ONLY BE SLIGHTLY INCREASED BY DEVELOPMENT. NO DETENTION OF FLOWS IS REQUIRED SINCE THE SITE IS LOCATED AT THE FAR END OF THE DRAINAGE AREA AND THERF WILL BE A MINIMUM IMPACT ON THE DOWNSTREAM FLOOD ZONE. ALL FLOWS, BOTH EXISTING AND DEVELOPED, ENTER GIRARD BOULEVARD. THE DEVELOPMENT OF THIS PROJECT INCREASES THE FLOW RATE THROUGH THE SITE WITH A CORRESPONDING DECREASED FLOW RATE TO THE ADJACENT PROPERTY TO THE NORTH.

RECEIVED APR 15 1985 HYDROLOGY SECTION

LEGEND

	EXISTING CONTOUR
09.40	EXISTING SPOT ELEVATION
	EXISTING BUILDING
	EXISTING CONCRETE
	EXISTING DIRT
	EXISTING PAVING
#	EXISTING CATCH BASIN
	PROPERTY LINES
o	POWER POLES
TA	TOP OF ASPHALT
FF = 5110.10	FINISHED FLOOR
(2850)	STREET ADDRESS
	DRAINAGE STUDY AREA BOUNDARY (INCLUDES SUBAREAS 1, 2 & 3)
	FINISHED CONTOUR
08.40	PROPOSED SPOT ELEVATION
	NEW BUILDING
	NEW PAVING OVER EXT. CONCRETE
	NEW PAVING OVER EXT. DIRT
	NEW DIRT IN PLACE OF EXT. CONCRETE
(2)	RUNOFF POINT W/DRAINAGE SUBAREA
	EASEMENT LINES
	LIGHT POLES
TOC	TOP OF CONCRETE
NG	NATURAL GROUND
	DRIVEPAD



VICINITY MAP

SCALE: 1" = 750'±

1ST REVISION: 1/21/85
2ND REVISION: 4/9/85, CHANGED BOUNDARIES TO MATCH NEW PLAT RECORD BOUNDARIES FROM THE PLAT ENTITLED "TRACT A - LANDS OF RAY COHEN", PERPARED BY JOHN ESQUIBEL AND DATED 3/25/85.

H16/D62

Thomas D. Isaacson 1/21/85

Date Jan 85 Designed TDI Checked TDI

Isaacson & Arfman, P.A.
CONSULTING ENGINEERING ASSOCIATES
Albuquerque, New Mexico

Warehousing Company of NM
BUILDING ADDITIONS

GRADING & DRAINAGE PLAN