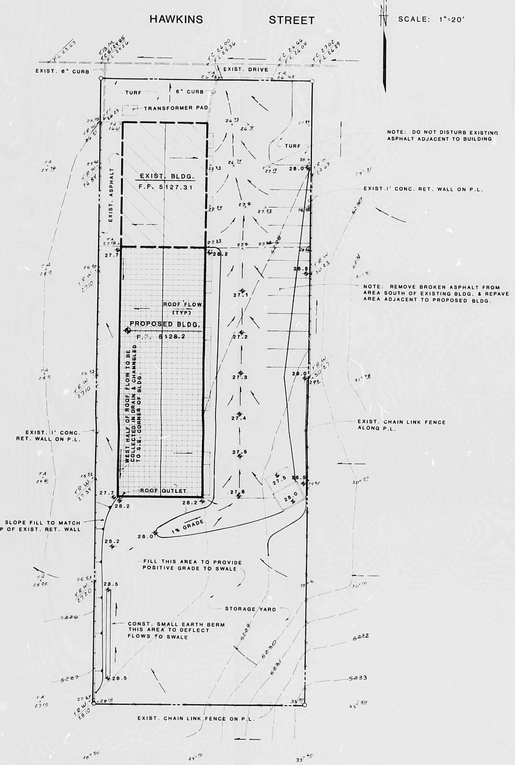
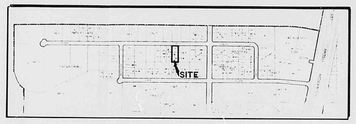


SCALE: 1"=20'

NOTE: DO NOT DISTURB EXISTING ASPHALT ADJACENT TO BUILDING

EXIST 1' CONC. RET. WALL ON P.L.

NOTE: REMOVE BROKEN ASPHALT FROM AREA SOUTH OF EXISTING BLDG. & REPAVE AREA ADJACENT TO PROPOSED BLDG.



VICINITY MAP D-17

LEGEND

- SIDEWALK, CURB & GUTTER (EXISTING, PROPOSED)
- PROPOSED ASPHALT
- BUILDING (EXISTING, PROPOSED)
- PROPERTY LINE
- 5127.5 EXISTING SPOT ELEVATION
- EXISTING CONTOUR
- 5127.5 PROPOSED SPOT ELEVATION
- PROPOSED CONTOUR
- SURFACE FLOW DIRECTION (EXISTING, PROPOSED)
- L.A. LANDSCAPED AREA
- T.G.W. TOP OF GRADE WALL (LESS THAN 18" HIGH)
- T.R.W. TOP OF RETAINING WALL (MORE THAN 18" HIGH)
- T.A. TOP OF ASPHALT
- T.C. TOP OF CURB
- F.L. FLOW LINE
- F.F. FINISHED FLOOR

CONSTRUCTION NOTES

1. Before construction, the Contractor shall check and verify pertinent figures shown hereon and shall make all applicable field measurements. Should any conflict, error or discrepancy be discovered, the contractor shall notify the Engineer of Record in writing before proceeding with construction. The Contractor must work with the Engineer for a pre-design conference to discuss the scope of work and critical areas involved.
2. The Contractor shall be responsible for following the plans which have been approved by the Engineer and the City Hydrology Department prior to construction.
3. The Contractor shall check the site plan for locations of utilities and shall be responsible for taking all steps necessary precautions and efforts to locate and protect these utilities. He shall give 48 hours notice to the Engineer of Record, AC Co. work that may interfere with sub utilities.

SCOPE:

The proposed improvements, comprised of a metal building expansion and associated pavement, is located in the Interstate Industrial Park, north of Osuna, west of I-25.

The present site is occupied by a small metal building office/shop located near the front of the lot. The rest of the lot is undeveloped and is being used as a storage yard.

The intent of this plan is to show:

a) Grading relationships between the existing ground elevations and proposed finished elevations in order to facilitate positive drainage to designated discharge points.

b) The extent of proposed site improvements, including buildings, walks and pavement.

c) The flow rate/volume of rainfall runoff across or around these improvements and methods of handling these flows to meet City requirements for drainage management.

d) The relationship of onsite improvements with existing neighboring property to insure an orderly transition between proposed and surrounding grades.

GENERAL NOTES:

LEGAL: Lot 36, Replat of Lots 36 & 37, Unit 4, Interstate Industrial Park, Albuquerque, New Mexico (Area = 0.69 Ac)

SURVEYOR: Clausen Surveying Co., 4-85

B.M.: City B.M. Sta 8-D17-A, west of Jefferson St., South of Ellison St., top of ACS Brass Tablet, Elev. 5145.55'

T.B.M.: Top of curb, west property line projection, Elev. 5124.85

SOILS: SCS Soils Map # 21, Soil Series "EmB", Hydrologic Soil Group 'B'

FLOOD HAZARD: Site is not located in a Flood Hazard Area.

OFF-SITE DRAINAGE: A portion of the adjacent lot to the east drains onto the site. The front half of the lot is directed to Hawkins Street. The rear portion, an unpaved storage yard, sheet flows onto the rear portion of the site, which in time will be directed to Hawkins Street via the paved access in front of the building

EROSION CONTROL: Minimal amount of earth moving is anticipated. If contractor stockpiles fill dirt, he shall be responsible for controling runoff from carrying sediment from the site by either berming across the flow path or constructing a fabric fence to control sediment.

CALCULATIONS: Based on an approved Master Drainage Plan for Academy Park, Unit 4 and Beta Tract dated November 10, 1985 by C. Berkenhoff and Assoc., development has provided for free discharge onto Hawkins Street.

Calculations are based on the City of Albuquerque D.P.M. Manual, Vol. II for the 100 year-6 hour storm, using the Rational Formula to compare the existing and proposed runoff rates.

RATIONAL METHOD: Q = CIA

Area of site: 30,000 sq.ft. = 0.69 Ac.

Run-off Coefficient:

Existing site:	Developed Site:
A imp. = 0.2 Ac	A imp. = 0.46 Ac
% imp. = 30 %	% imp. = 67 %
"C" = 0.47 (DPM 22.2 C-1)	"C" = 0.67 (DPM 22.2 C-1)

Rainfall Intensity:

$I = T_6 (6.84) Tc^{-0.54}$ = 4.64" per hour
where T_6 = 2.2" (DPM 22.2 D-1)
Tc = 10 minutes

Existing Conditions:	Developed Conditions:
Q100 = (0.47)(4.64)(0.69) = 1.5 cfs	Q100 = (0.67)(4.64)(0.69) = 2 cfs
V100 = (1.5)(5 Tc)(60 sec/in)/2 = 2,250 cu. ft.	V100 = (2)(50)(60)/2 = 3,000 cu. ft.

SUMMARY:

ΔQ100 = (1.5)-(2) = 0.5 cfs (increase)
ΔV100 = (2,250)-(3,000) = 750 cu. ft. (increase)

RECEIVED MAY 15 1985 HYDROLOGY SECTION

Offsite Area Impacting Site

Area = 16,000 ft^2 = 0.37 Ac
A imp. = 0 Ac.
% imp. = 0 %
C = 0.34
Q 100 = (0.34)(2.11)(2.2)(0.37 Ac)
= 0.6 cfs

D-17/D056

WEISS-HINES ENGINEERING, INC.
1100 ALVARADO N.E. SUITE B
ALBUQUERQUE, NEW MEXICO 87110
(505) 266-5366

REVISIONS	DATE

DESIGNED
DRAWN
CHECKED

DRAINAGE / GRADING PLAN
CHARDANS BOILER SERVICE
4400 HAWKINS N.E.

ENGINEER

SHEET 1 OF 1

Rel 21 DATE 2-28-89 ON FILE
CITY OF ALBUQUERQUE

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PLANS/PLATS ON FILE

FILE DESC: D-17 /D056

PLANS/PLATS 1

F 30 D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE C D F