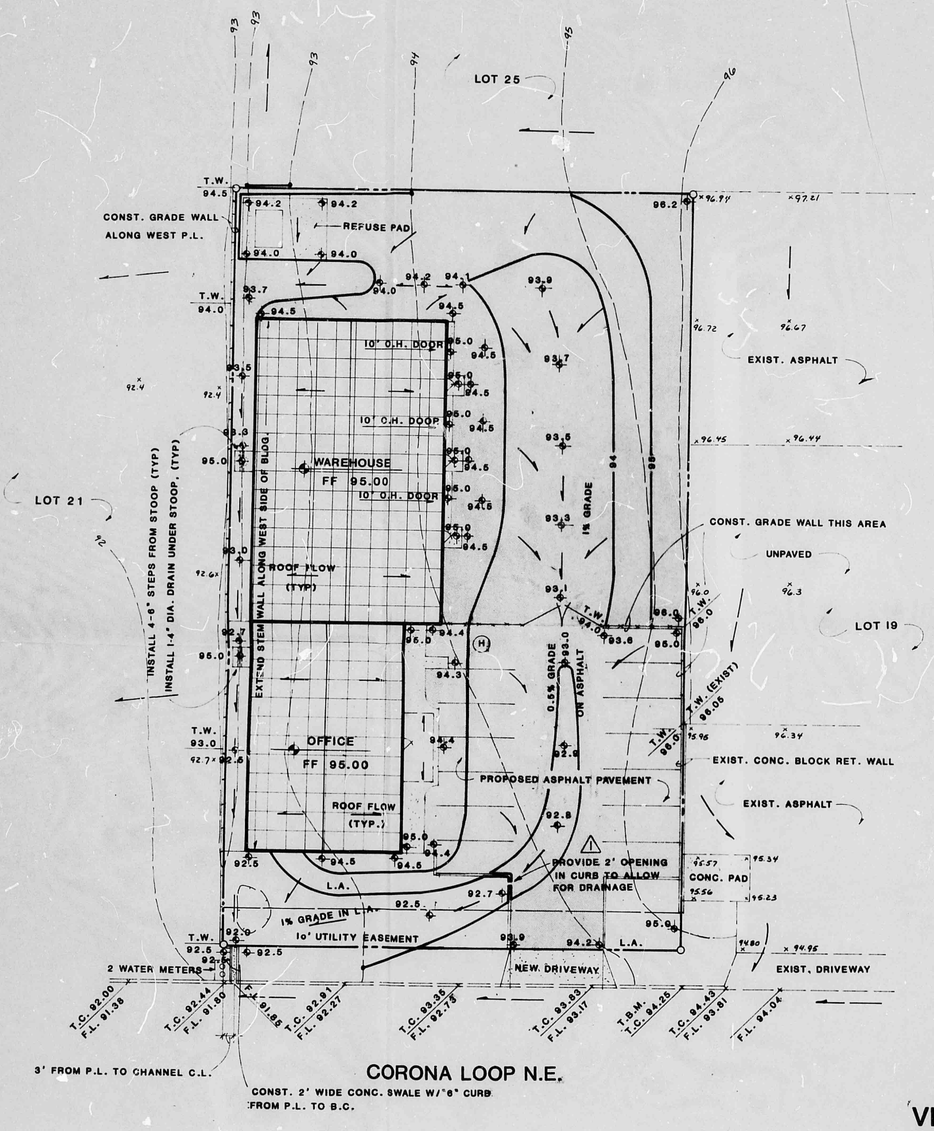
YDROLOGY C17/D1L OFFICE/WAREHOUSE COMPLEX

C17 / DIL

OFFICE / WAREHOUSE

COMPLEX

1 PLAN



SCALE 1"=20'

REVISED 8-85 TO SHOW PAVEMENT EXTENDING TO NORTH R. CALCULATIONS ADJUSTED ACCORDINGLY

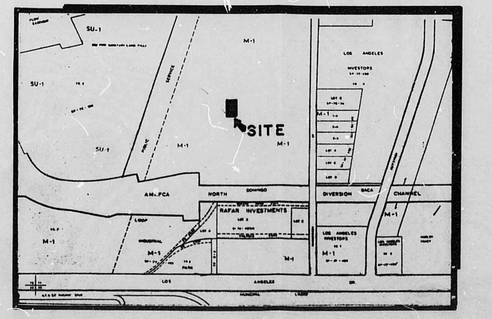
CHRIS WEISS — DATE

LEGEND

- SIDEWALK, CURB & GUTTER (EXISTING, PROPOSED)
- PROPOSED ASPHALT
- BUILDING (EXISTING, PROPOSED)
- PROPERTY LINE
- X12.7 — EXISTING SPOT ELEVATION
- EXISTING CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED CONTOUR
- SURFACE FLOW DIRECTION

8360 Corona Loop NE

VICINITY MAP C-17



SCOPE:

The proposed improvements, comprised of an office building and adjoining warehouse, parking and related walks, are being constructed within an industrial subdivision refered to as the Clifford Industrial Park.

The present site is a pre-graded lot with building construction under way on the lot to the east. The lots to the north and west are presently vacant.

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.

CONSTRUCTION NOTES:

1. Before beginning construction, the Contractor shall check and verify pertinent figures shown here on and all applicable field measurements. Should any conflict, error or discrepancy be discovered, the Contractor shall notify the Engineer at once to resolve the problem. It is recommended that the contractor meet with the Engineer for a pre-design conference to determine the scope of work and critical areas involved.

2. The Contractor shall be responsible for following the plans using his best skill and attention. Any departure from the plans must be approved by the Engineer and the City Hydrology Department prior to construction.

3. The Contractor shall check the site plan for locations of existing utilities within or adjacent to streets and shall take all necessary precautions and efforts to locate and protect these utilities. He shall give 48 hours notice to Line Locating Service, 765-1234, for any work that he contemplates would interfere with said utilities.

GENERAL NOTES:

LEGAL:
Lot 20, Clifford Industrial Park, New Mexico.

SURVEYOR:
Ron Forstbauer Surveying Company, 1-11-85.

B.M.:
BH-B-C-17, A standard ACS Brass Tablet. Elevation 5111.03.

T.B.M.:
T.C. at lot line projection at SE corner of site. Elevation 5094.25.

SOILS:
SCS Soils Map #11, Soil Type EmB, Soil Hydrologic Group "B".

FLOOD HAZARD:
Site is not located in a flood hazard zone, per B-H Report for Clifford Industrial Park, (Plate 10, FEMA).

OFF-SITE DRAINAGE:
Offsite drainage from the east is being routed south within the lot 19 boundary for discharge on Corona Loop. Lot 25 is master planned to discharge to the north. Thus the site is not affected by offsite drainage.

EROSION CONTROL:
If stockpiled fill material is left on the site, the contractor will be responsible for installing either a temporary silt fence or constructing a 2' high earth berm across the south side of the site to intercept sediment-laden flows.

CALCULATIONS:
Based on a pre-design meeting with City of Albuquerque Hydrology, on 1-8-85, the following criteria was established.

a. Follow criteria outlined in Drainage Report for the Clifford Industrial Park, prepared by B-H.

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: 24,000 sq.ft.= 0.55 Ac.

Run-off Coefficient:

Existing site:	Developed Site:
A imp. = 0 Ac	A imp. = 0.51 Ac
% imp. = 0 %	% imp. = 93 %
"C" = 0.34 (DPM 22.2 C-1)	"C" = 0.89 (DPM 22.2 C-1)

Rainfall Intensity:

$I = P_6 (6.84)\ Tc^{-0.51} = 4.64"$ per hour
where $P_6 = 2.2"$ (DPM 22.2 D-1)
Tc = 10 minutes

Existing Condition:	Developed Condition:
Q100 = (0.34)(4.64)(0.55) = 0.9 cfs	Q100 = (0.89)(4.64)(0.55) = 2.3 cfs
V100 = (0.9)(5 Tc)(60 sec/in)/2 = 1302 cu. ft.	V100 = (2.3)(50)(60)/2 = 3450 cu. ft.

SUMMARY:

△Q100 = (0.9)-(2.3) = 1.4 cfs (increase)
△V100 = (1302)-(3450) = 2148 cu. ft. (increase)

RESUBMITTAL 1-31-85:
ELEVATIONS ADJUSTED ON PROPOSED GRAVEL & PROPOSED ASPHALT PAVEMENT TO REFLECT CHANGES IN DRIVEWAY.

CHRIS WEISS — 1-31-85 DATE

RECEIVED
AUG 28 1985
HYDROLOGY SECTION