

FEMA MAP

SCALE: 1"=500' REF. PANEL 116, 1996 REF. PANEL 8, 1983

GRADING & DRAINAGE PLAN

EXISTING CAR WASH FACITLY. PROPERTY TO THE EAST IS UNDEVELOPED. PARADISE BLVD. ON THE NORTH IS CLASSIFIED AS A MINOR ARTERIAL WITH CURB/GUTTER AND SIDEWALK. DAVENPORT STREET

EXISTING DRAINAGE CONDITIONS: HISTORIC RUN-OFF HAS ESSENTIALLY SHEET FLOWED ACROSS AND PARADISE BLVD. (APPROX. 1100 FEET EAST OF SITE)— Reference: Grading and Drainage Plan for Richard J. Pino USPS Post Office, April 1996 and Drainage Report fpr Albuquerque West Unit 1, October 1990.

PROPOSED IMPROVEMENTS: CONSIST OF 7700 S.F OF LEASABLE COMMERCIAL SPACE, ASPHALT PAVING, CURB AND GUTTER, CONCRETE SIDEWALKS, LANDSCAPING, AND TWO (2) ACCESS DRIVEWAY ENTRANCES.

PROPOSED DRAINAGE CONDITIONS: DISCHARGE OF RUN-OFF TO SINGLE DETENTION FACILITY, WITH CONTROLLED OUTFALL VIA A 4" DIAMETER PVC OUTLET. SEE ANALYSIS POINT #7, Drainage Report for Albuquerque West

CALCULATIONS

City Hydrology, Ref. File #C-12/D

I. DESIGN CRITERIA

HYDROLOGIC METHODS PER SECTION 22.2, HYDROLOGY, OF THE DEVELOPMENT PROCESS MANUAL (DPM), REVISED JANUARY 1993 FOR THE CITY OF ALBUQUERQUE AND ADOPTED BY THE COUNTY OF BERNALILLO. DISCHARGE RATE: Q = Qpeak x AREA..."PEAK DISCHARGE RATES FOR SMALL WATERSHEDS" VOLUMETRIC DISCHARGE: VOLUME = Eweighted x AREA SOIL TYPE: 'B', EtC, EMBUDO SERIES, A GRAVELLY FINE SANDY LOAM AS CLASSIFIED BY THE SCS SOIL SURVEY P100 = 2.20 INCHES, ZONE 1 TIME OF CONCENTRATION, TC = 10 MINUTES DESIGN STORM: 100-year/6-hour, 10-year/6-hour WHERE [] = 10 year VALUES

II. EXISTING CONDITIONS (LOT 1-A)

PROJECT AREA = 0.826 ACRES, WHERE EXCESS PRECIPITATION 'A' = 0.44 IN., 'B' = 0.67 IN. PEAK DISCHARGE, Q100 = 1.27 CFS [0.4], WHERE UNIT PEAK DISCHARGE 'A' = 1.29 CFS/ACRE & 'B' = 2.03 CFS/AC.
THEREFORE: VOLUME100 = 1547 C.F. [378 C.F.]

III. DEVELOPED CONDITIONS FOR ZONE 1 PROJ.

DETERMINE LAND TREATMENTS, PEAK DISCHARGE & WEIGHTED EXCESS PRECIPITATION

	AREA	LAND TREATMENT	UNIT PEAK DISCHARGE	<u>,E,</u>
UNDEVELOPED,	– AC.	A	1.29[0.24]	0.44[0.08]
LANDSCAPING.	0.09 AC.	В	2.03[0.76]	0.67[0.22]
GRAVEL & COMPACTED SO	IL 0.00 AC.	С	2.87[1.49]	0.99[0.44]
ROOF/PAVEMENT,	0.74 AC.	D	4.37[2.89]	1.97[1.24]
	0.83 ACRES			

Eweighted = 1.83 IN. [1.13]Q100 = 3.4 CUBIC FEET PER SECOND (CFS) Q10 = 2.2 CFS; VOL.100 = 5487 CUBIC FEET (CF), VOL.10 = 3388 C.F.

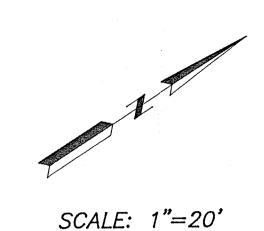
APPROXIMATELY 2 CFS OF DEVELOPED RUN-OFF EXITS TO NW ENTRANCE AND THEN 3 CFS EXITS THE SW ENTRANCE WITH THE REMAINING 1 CFS DISCHARGING TO THE SOUTH

IV. QUANTIFY UP-STREAM RUNOFF IMPACTING THE PROPERTY

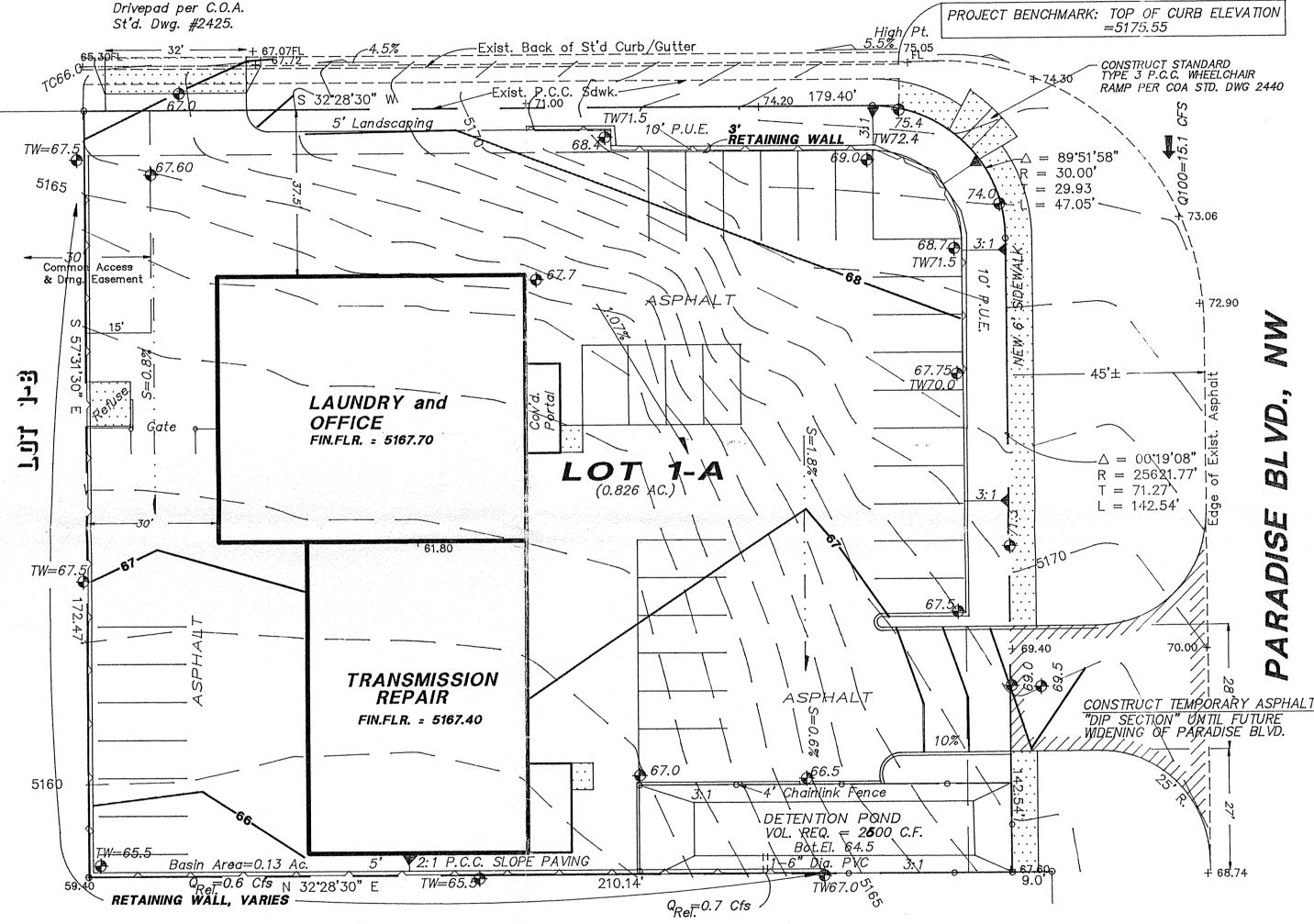
@ THE NORTHWEST PROPERTY CORNER (STREET FLOW) AND REFERENCE Grading and Drainage Plan for Pino Post Office, dated 4/96.

FLOWS IN PARADISE TO THE EAST, DOCUMENTED FLOW = 15.10 CFS.

- @ DAVENPORT/PARADISE, AN EXISTING HIGH POINT OR 'WATER BLOCK' EXISTS, THEREFORE NO ADDITONAL RUN-OFF IS CONVEYED SOUTH OF THIS INTERS.
- ACCESS TO PARADISE BLVD. RECOMMEND ASPHALT DIP SECTION, TEMPORARY UNTIL WIDENING OF PARADISE BLVD. OCCURS. 1' DEEP BAR DITCH CONTAINS >> THAN 15+ CFS OF DEVELOPED FLOW. 25' RADIUS ASPHALT RETURNS



DAVENPORT STREET, NW

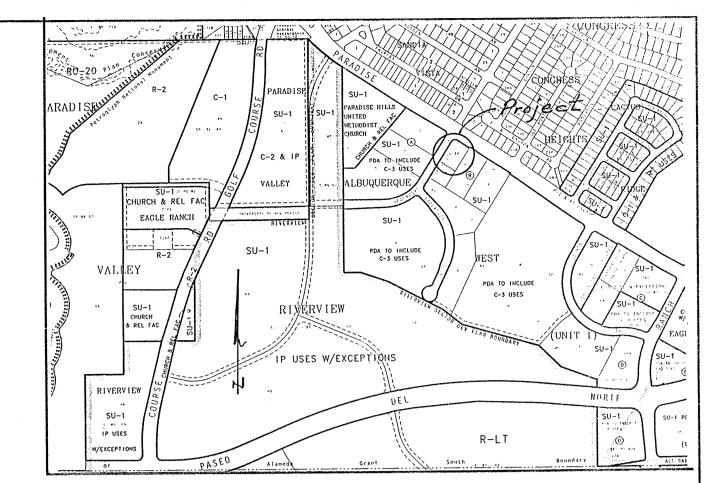


LEEM ENGRENONETY

Construct P.C.C.

2. ALL P.C.C. 3000 PSI. 3. ALLOWABLE BEARING, 1500 PSF . LATERAL PRESS. 40 PSF 5. BACKFILL COMPACTION TO BE 90% MODIFIED PROCTOR

. ALL REINFORCEMENT SHALL BE GRADE 40



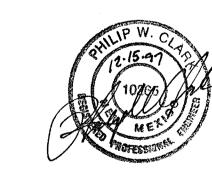
VICINITY MAP ZONE C-12

SCALE: 1"=750'

NOTES:

 All Work Within the Right—of—Way Shall Be Constructed In Accordance With the City of Albuquerque Standard Specs. For Public Works Construction, Latest Edition.

NOTE: ALL DIMENSIONS TO FACE OF CURB UNLESS NOTED OTHERWISE



HYDROLOGY SECTION

SECTION A - A REINFORCED CONCRETE RETAINING WALL

I, PHILIP W. CLARK, A PROFESSIONAL ENGINEER LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT I HAVE VISITED THE SITE SHOWN HEREON, AND THAT THE CONTOURS SHOWN REPRESENT THE EXISTING GROUND CONDITIONS, AND DO FURTHER CERTIFY THAT NO EARTHWORK OF ANY KIND, NOR ANY DISTURBANCE OF THE EXISTING GROUND HAS OCCURRED ON THIS SITE SINCE THE CONTOURS WERE DETERMINED.

PROJECT INFORMATION

<u>LEGEND</u>

FL, fl

EXIST. SPOT ELEV.

EXIST. CONTOUR NEW SPOT ELEV. NEW CONTOUR

NEW CONCRETE

HEADER CURB

TOP OF CURB

FLOW LINE

TOP OF WALL

DRAINAGE FLOW

(P.C.C. 0.5' CURB HEIGHT)

LEGAL DESCRIPTION: LOT 1-A, BLOCK B, ALBUQUERQUE WEST ALBUQUERQUE, NEW MEXICO

BERNALILLO COUNTY PARADISE BOULEVARD, NW PROPERTY ADDRESS:

ALBUQUERQUE, NM 87114 PROJECT SURVEY: TOPOGRAPHIC INFORMATION COMPILED FROM FIELD SURVEY PERFORMED BY ALDRICH LAND SURVEYING, DATED 9/30/94.

PROJECT BENCHMARK: TOP OF CURB OF THE SOUTH-SOUTHEAST CURB RETURN LOCATED AT THE INTERSECTION OF PARADISE BLVD. AND DAVENPORT STREET., AS TIED FROM ACS BRASS CAP MARKED 2-C12 (ELEV. 5275.79)

Clark Consulting Engineers 19 Ryan Road Edgewood, New Mexico 87015

(505) 281-2444 FAX (505) 281-2444 REVISION LOT 1-A, BLOCK B, ALBUQUERQUE WEST

SILVER SUN, INC. - dba JOSEPH HOMES Grading & Drainage Plan

DESIGNED BY: PWC DRAWN BY: CCE JOB No: JOSEPH_G CHECKED BY: PWC DATE: 11/6/97 FILE No. G/D