HYDROLOGY

L22/D43

ONE PLAN

1 PLAN FOR

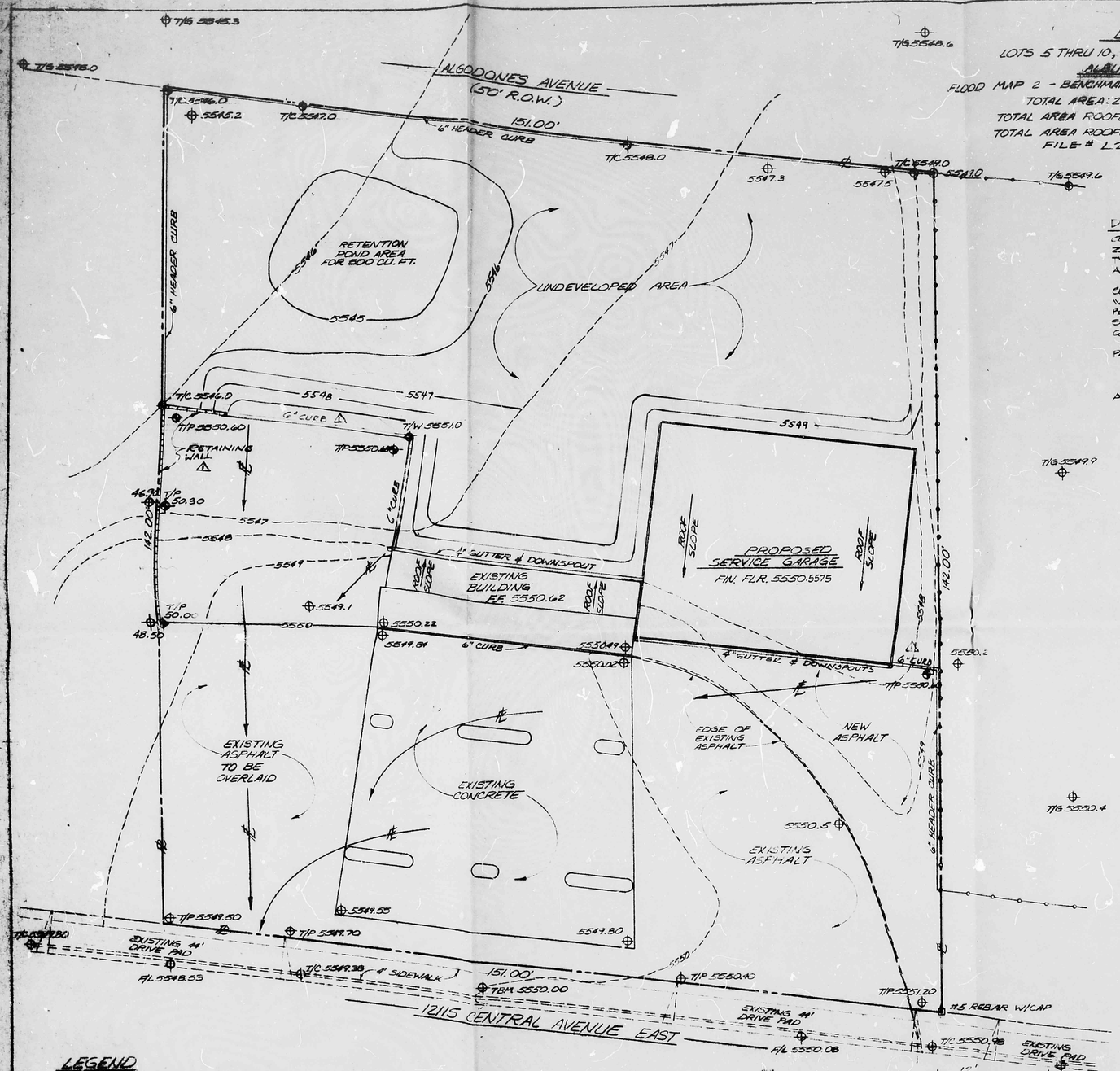
VEHICLE REPAIR SHOP

L22-D43

DRAINAGE PLAN

LOTS 5 THRU 10, BLOCK 2, HENDREN ADDITION
ALBUQUERQUE, NEW MEXICO

FLOOD MAP 2 - BENCHMARK NM BER. 4 - ELEV. 5560.11 - SOIL TYPE "B"
TOTAL AREA: 21,300 SQ. FT. = 0.490 ACRES
TOTAL AREA ROOFED OR PAVED: EXISTING = 7850 SQ. FT. = 37%
TOTAL AREA ROOFED OR PAVED: PROPOSED = 12750 SQ. FT. = 60%
FILE # L22/D43 APPROVED: 4-1-86



DESIGN CRITERIA

OCCUPANCY	GROUP H DIV 4
ZONING ATLAS	L-22-Z (C-2)
TYPE OF CONSTR.	V-N
AREA OF BUILDING	2853 S.F. (EXIST.)
	1880 S.F. (PROPOSED)
SOIL BEARING	2000 PSI. MIN
WIND LOAD	25 PSI.
ROOF LIVE LOAD	20 PSF.
STEEL STRENGTH	ASTM A-36
CONCRETE STRENGTH	3000 PSI @ 28 DAYS
PARKING	5 CARS REQ'D.
	2173 SF ÷ 200 = 10 +
	BIG STEP NEAR BY
ADDRESS	12115 CENTRAL N.E.

PROPERTY DESCRIPTION

LOTS NUMBERED FIVE TO TEN, INCLUSIVE, IN BLOCK NUMBERED TWO (2) OF THE HENDREN ADDITION, A SUBDIVISION OF TRACTS 9, 10, 11, 12 AND 13, OF THE MORGAN ADDITION TO THE CITY OF ALBUQUERQUE, NEW MEXICO, AS THE SAME ARE SHOWN AND DESIGNATED OF THE PLAT OF SAID SUBDIVISION, FILED IN THE OFFICE OF COUNTY CLERK OF BERNALILLO COUNTY, NEW MEX., APRIL 19, 1948.

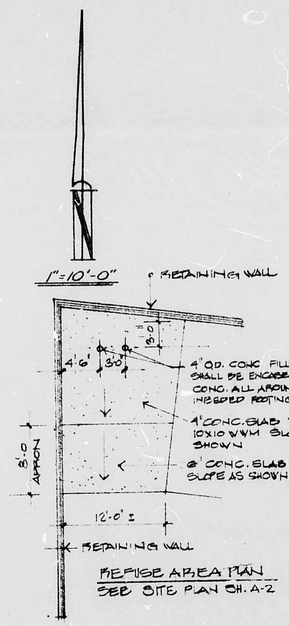
HYDROLOGY

OFF-SITE FLOW: MINIMAL SHEET FLOW FROM UNDEVELOPED TRACT TO THE SOUTHEAST. AREA = 10,000 SQ. FT. = 0.23 ACRES.
i = 2.46 x 2.15 = 5.30, Q = 0.60 CFS
VOLUME (WITH CN82) = 10,000 S.F. x 0.08' = 800 CU. FT.

ON-SITE FLOW: EXISTING - Q = 0.90 x 7850 S.F. x 5.3 = 0.90 CFS TO CENTRAL
& 0.40 x 13450 S.F. x 5.3 = 0.65 CFS TO ALGODONES
PROPOSED - Q = 0.92 x 12750 S.F. x 5.3 = 1.45 CFS TO CENTRAL
& 0.40 x 8550 S.F. x 5.3 = 0.42 CFS TO ALGODONES
EXISTING VOLUMES (WITH CN98) = 7850 S.F. x 0.18' = 1440 CU. FT.
TO CENTRAL
(WITH CN 75) = 13450 S.F. x 0.06' = 800 CU. FT.
TO ALGODONES
PROPOSED VOLUMES (WITH CN98) = 12750 S.F. x 0.18' = 2300 CU. FT.
TO CENTRAL
(WITH CN75) = 8550 S.F. x 0.06' = 510 CU. FT.
TO ALGODONES

RECOMENDATION

SINCE PROPOSED CONSTRUCTION ACTUALLY ALLEVIATES A BAD SITUATION AT KIRBY AND ALGODONES AVENUES, IT IS RECOMENDED THAT THE DEVELOPER BE ALLOWED TO RETAIN ON HIS PROPERTY THAT RUNOFF WHICH WOULD OTHERWISE ENTER ALGODONES AVE. IT WOULD CREATE UNDUE HARDSHIP TO REQUIRE THE DEVELOPER TO DESIGN AND CONSTRUCT SOME 800' OF STREET TO ALLOW THE DISCHARGE OF 0.42 CFS.



REFUSE AREA PLAN
SEE SITE PLAN SH. A-2

EROSION CONTROL NOTES

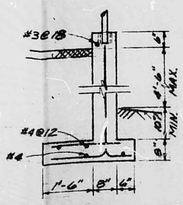
THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE TO THE FOLLOWING:

1. NO SEDIMENT-BEARING WATER SHALL BE ALLOWED TO DISCHARGE THE SITE DURING CONSTRUCTION.
2. DURING GRADING OPERATIONS AND UNTIL THE PROJECT HAS BEEN COMPLETED, ALL ADJACENT PROPERTY, RIGHTS-OF-WAY, AND EASEMENTS SHALL BE PROTECTED FROM FLOODING.
3. ANY AND ALL SEDIMENTATION ORIGINATING ON THE SITE WHICH IS DEPOSITED WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PROMPTLY AND COMPLETELY REMOVED BY THE CONTRACTOR.

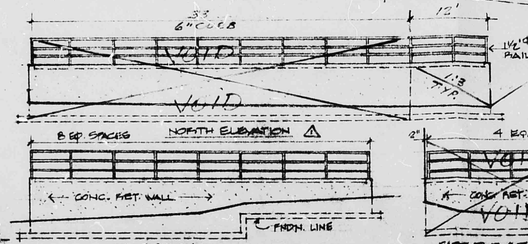
RECEIVED
JUN 18 1986
HYDROLOGY SECTION

LEGEND

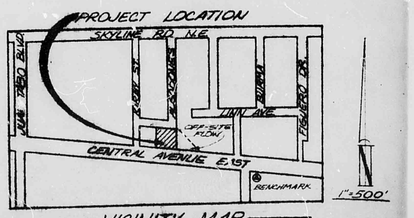
- PROPERTY LINE
- EXISTING CONTOURS — 4912
- PROPOSED CONTOURS — 5011
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- EXISTING CHAIN LINK FENCE



RETAINING WALL DETAIL
1/4" = 1'-0"



ELEVATION OF RETAINING WALL AND GUARD RAIL



VICINITY MAP
ZONE MAP L-22

MICHAEL DEL WEST ARCHITECT
ALBUQUERQUE, NEW MEXICO

SWEB SERVICE STATION ADDITION • 12115 CENTRAL AVE. N.E. • ALBUQUERQUE, NM
DRAINAGE PLAN
DATE 3/18/86

⚠ REVISED TO ELIMINATE RETWALL

DUANE LEE LOVATO
N.M. 8300
REGISTERED PROFESSIONAL ENGINEER
3-17-86

L22/D43