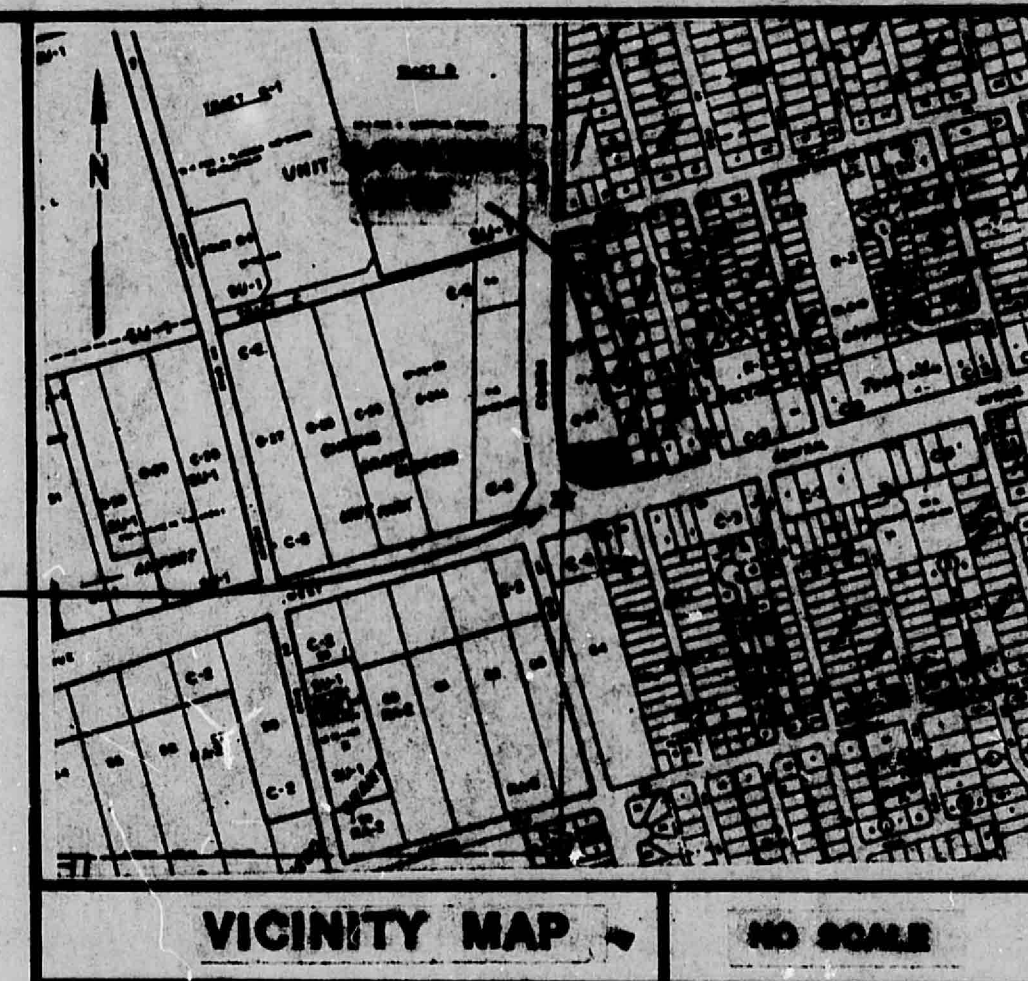


SCALE 1" = 20'

BENCH MARK NM 448-N 1 A
BRASS CAP 7/10" SOUTH OF
MEDIAN NOSE
M.S.L. ELEV. = 5091.891



GENERAL

Zone Atlas Page K-10; Flood Hazard Zone C

LAND USE

Present - Undeveloped lot with frontage onto West Central Avenue and Coors Boulevard, NW. Both streets are paved with standard curbs and gutters. A storm drain system is constructed in West Central Avenue.

Proposed - To be developed in two phases as follows:

Phase I - Commercial Paint Shop, 6,000 sq. ft., with parking lot

Phase II - Commercial Building, 4,000 sq. ft.

SOIL TYPE

Medurez - Fine sandy loam and sandy clay loam, Hydrologic Soil Group B.

TOTAL LOT AREA

Irregular shaped lot consisting of 43,268 sq. ft. (0.993 ac.)

HYDROLOGY

TIME OF CONCENTRATION

Flow length across lot = 260'
Elevation Difference = 3.98'
Time of Concentration = 6 min; use 10 min.

6-HR. RAINFALL DEPTH

10-yr. = 1.45 in.
100-yr. = 2.20 in.

RAINFALL INTENSITY

10-yr. = 3.15 in./hr.
100-yr. = 4.77 in./hr.

RUNOFF COEFFICIENTS

Existing Condition C = 0.34
Developed Condition C = 0.86

RUNOFF RATES

Existing Condition
10-yr. = 1.1 cfs
100-yr. = 1.4 cfs
Developed Condition (including development of future building and parking lot surrounding area for parking)
10-yr. = 4.326 cfs
100-yr. = 6.922 cfs

RUNOFF VOLUME

Existing Condition
10-yr. = 1,730 cu. ft.
100-yr. = 2,596 cu. ft.
Developed Condition (including development of future building and parking lot surrounding area for parking)
10-yr. = 4,326 cu. ft.
100-yr. = 6,922 cu. ft.

HYDRAULICS

SWALE CAPACITY

Triangular shaped swale formed by pavement at 0.5% slope and 8" asphalt curb
Top width = 29' 1"
Depth = 3"
Slope = 0.5%
Q at 3" depth = 5.3 cfs
Required Q = 4.1 cfs

POND CAPACITY

Pond size - "L" shaped pond with north portion approximately 54' x 83' and south portion approximately 17' x 70' (see plan for layout)
Top Area = 5,672 sq. ft.
Bottom Area = 4,800 sq. ft.
Depth = 1.5'
Side Slopes = 2H:1V
Capacity = 7,854 cu. ft.
Required Capacity = 6,922 cu. ft.
Freeboard = 2" at 1.5' depth

Since freeboard on the pond is only 2 inches at 1.5 feet depth, the wall on the north and east sides of the pond was raised 6 inches above the water surface elevation. This was done to protect Lot 25; in case the pond overflows, the runoff would not flow east onto Lot 25, but would flow south through the Phase II area.

APR 01 1986
HYDROLOGY SECTION

APR 01 1986
HYDROLOGY SECTION

LEGEND	
	TRANSITION AREA
	FLOW DIRECTION
	EXISTING CONTOUR
	EXISTING SPOT ELEVATION
	UNDERGROUND ELECTRIC
	OVERHEAD ELECTRIC

EROSION CONTROL DURING CONSTRUCTION

The detention pond will be constructed first, along with the slotted riser and outlet pipe. During construction, the site will have to be graded to drain to the pond. The last construction phase will be to install the pond to clean out any sediment and to achieve design dimensions. The Phase II site will not be effected at this time and drainage will remain as is.

OFF-SITE FLOW

The area to the north drains to the east and south through Lot 25. Lots 25 and 26 drain either to West Central Avenue or 65th Street NW (residential street abutting lots 25 and 26 to the east) and into existing storm drain. Flows in Coors Boulevard NW and West Central Avenue are contained in the streets by standard curbs and gutters.

STORM DRAIN CAPACITY

A storm drain is located in West Central Avenue and in 65th Street NW. Existing flow drains to West Central Avenue then into an outlet on 65th Street NW. There are no inlets in West Central Avenue downstream from this lot. The inlet and 18" RCP in 65th Street NW do not have the capacity to carry the developed runoff from this lot. Therefore, an on-site pond will detain all runoff and a 4" PVC pipe will provide controlled releases to West Central Avenue.

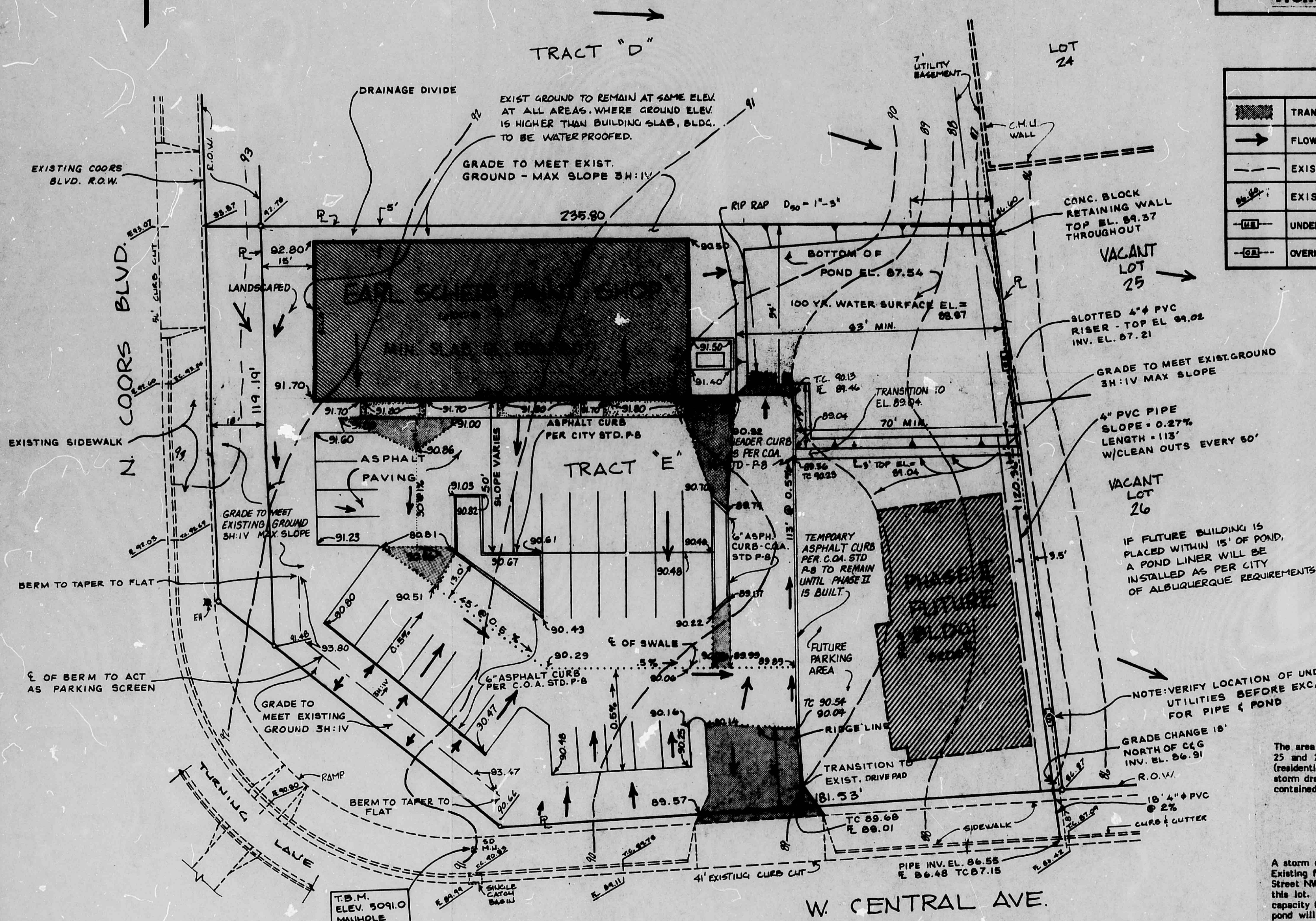
Handwritten signature and date: 10/28/85, 4/1/86

DESIGNED BY:
S.D.
DRAWN BY:
A.P. - S.D.
CHECKED BY:
E.D.

DRAINAGE AND GRADING PLAN FOR EARL SCHEIB PAINT SHOP

OCT. 1985

PREPARED BY:
RESOURCE TECHNOLOGY INC.



LEGAL DESCRIPTION
TRACT "E" ATRISCO VILLAGE SUBD.
CITY OF ALBUQUERQUE
BERNALILLO COUNTY
NEW MEXICO

NOTE: PHASE II BUILDING IS NOT TO BE
DESIGNED AT THIS TIME, ALTHOUGH
THE POND IS DESIGNED TO HOLD
THE ENTIRE FLOW - PHASE I & II