

DRAINAGE INFORMATION SHEET

A12

PROJECT TITLE: WEST HESA MED. CENTER ZONE ATLAS/DRNG. FILE #: A-13/D4ALEGAL DESCRIPTION: TRACT R-3, REPT OF TR. R., LANDS OF HORIZON CORP.CITY ADDRESS: N/AENGINEERING FIRM: ISAACSON & ARFMAN, P.A. CONTACT: FRED ARFMANADDRESS: 128 MONROE ST. N.E. PHONE: 268-8828OWNER: AMITY DEVELOPMENT CONTACT: VINCE DIGREGORIO

ADDRESS: _____ PHONE: _____

ARCHITECT: ERIC MILLER & ASSOC. CONTACT: TOM GENTRYADDRESS: _____ PHONE: 764-9550SURVEYOR: SOUTHWEST SURVEYING CONTACT: FRANK WILSONADDRESS: _____ PHONE: 247-4444CONTRACTOR: AMITY DEVELOPMENT CONTACT: BILL BAILEY

ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

☐ YES☒ NO☐ COPY OF CONFERENCE RECAP
SHEET PROVIDED

DRB NO. _____

EPC NO. _____

PROJ. NO. _____

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT☒ DRAINAGE PLAN☐ CONCEPTUAL GRADING & DRAINAGE PLAN☐ GRADING PLAN☐ EROSION CONTROL PLAN☐ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT APPROVAL☐ PRELIMINARY PLAT APPROVAL☐ SITE DEVELOPMENT PLAN APPROVAL☐ FINAL PLAT APPROVAL☒ BUILDING PERMIT APPROVAL☐ FOUNDATION PERMIT APPROVAL☐ CERTIFICATE OF OCCUPANCY APPROVAL☐ ROUGH GRADING PERMIT APPROVAL☐ GRADING/PAVING PERMIT APPROVAL

OTHER _____ (SPECIFY)

DATE SUBMITTED: _____

BY: FRED C. ARFMAN

AUG 25 1989

HYDROLOGY SECTION



KEN SCHULTZ
MAYOR

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

September 18, 1989

Fred C. Arfman, P.E.
Isaacson & Arfman, P.A.
128 Monroe Street, NE
Albuquerque, New Mexico 87108

RE: DRAINAGE PLAN FOR WEST MESA MEDICAL CENTER
ENGINEER'S STAMP DATED AUGUST 18, 1989 (A-12/D4A)

Dear Mr. Arfman:

Your submittal, referred to above, is approved for Building Permit by the Hydrology Section.

If you have any questions, please call me at 768-2650.

Cordially yours,

Gilbert Aldaz, P.E. & L.S.
City/County Floodplain Administrator

GA/bsj
(WP+1292)

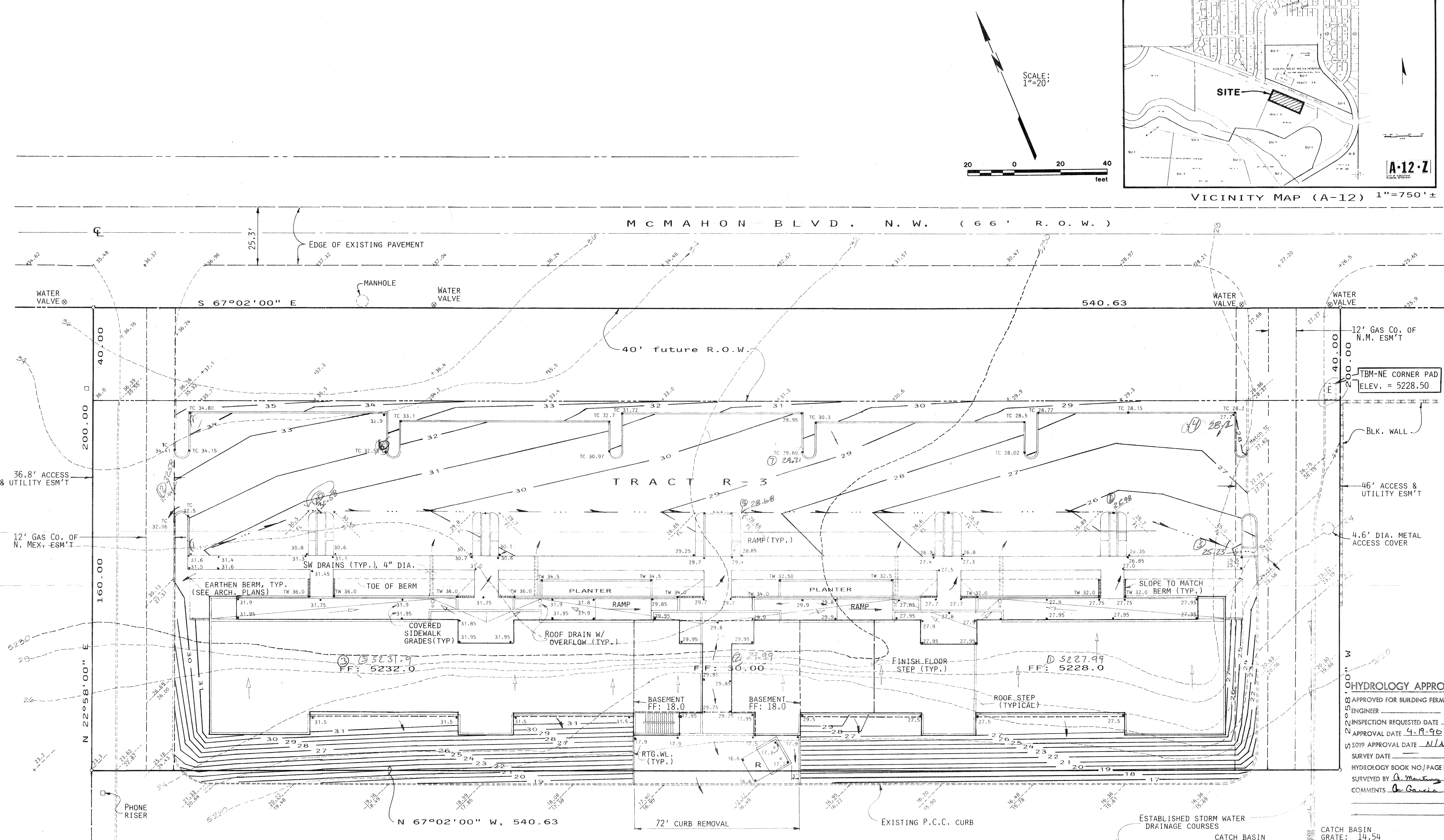
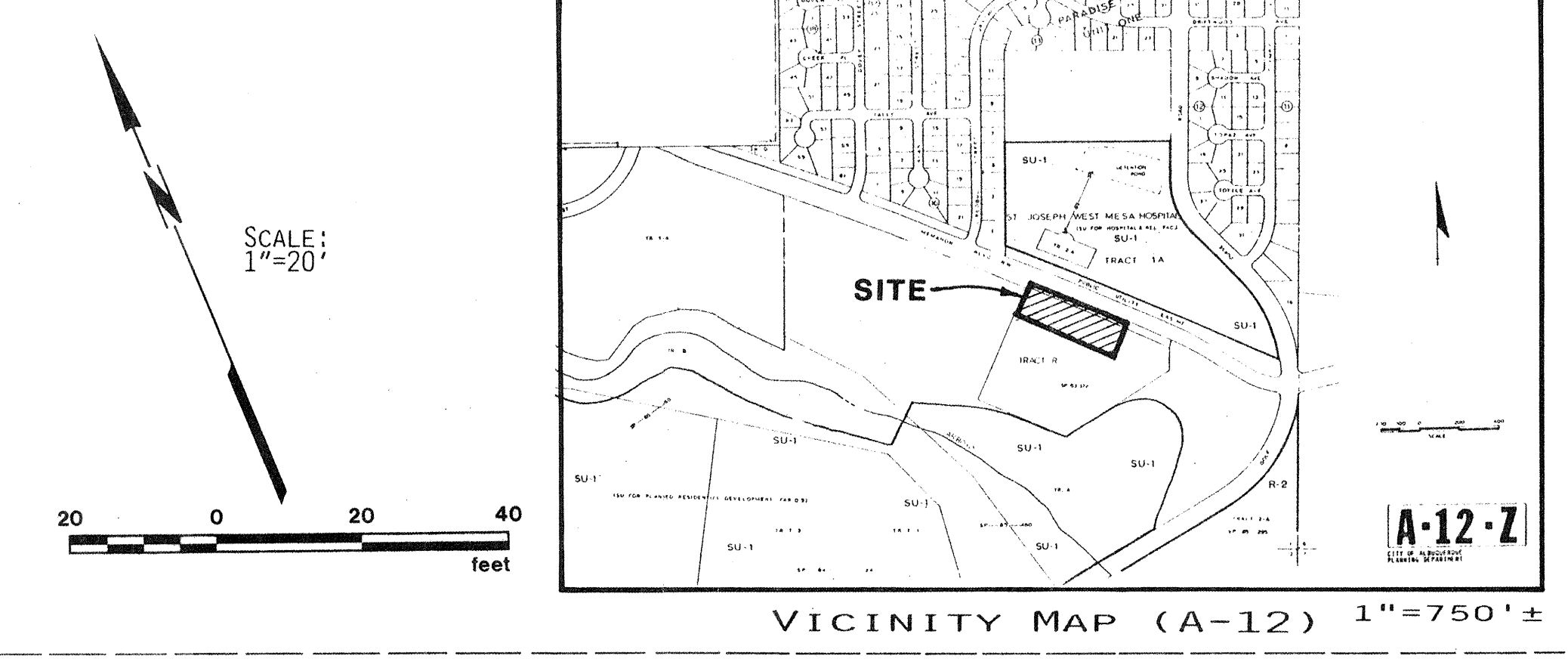
PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E.
Assistant Director Public Works

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER



- NOTES**
1. ABOVE PLAN IS A REVISION OF A PREVIOUSLY APPROVED PLAN (A-13/D4) WHICH WAS APPROVED ON OCTOBER 18, 1984 BY A.M.A.F.C.A.
 2. BENCHMARK: "BLACK-2"; USGS BRASS CAP STAMPED 'BLACK-2 1977' AT THE SOUTHWEST QUADRANT OF MCMAHON BLVD. AND GOLF COURSE ROAD. ELEVATION: 5213.926
 3. TBM: NORTHEAST CORNER OF CONCRETE ELECTRICAL PAD LOCATED AT THE NORTHEAST CORNER OF THE SITE. ELEV: 5228.50
 4. SITE IS NOT SITUATED WITHIN ANY FLOOD HAZARD AREA.
 5. SOILS: SCS BERNALILLO COUNTY SURVEY MAP INDICATED BCC (BLUEPOINT) AS HAVING A LOW SHRINK-SWALE POTENTIAL AND A HYDROLOGICAL SOIL GROUP OF 'A'.
 6. NO PHASE CONSTRUCTION IS ANTICIPATED.
 7. SURVEYOR: SOUTHWEST SURVEYING CO., INC., FRANKLIN E. WILSON, NMLS NO. 6446.
 8. LEGAL DESCRIPTION: TRACT R-3, REPLAT OF TRACT R, LANDS HORIZON CORPORATION

EXISTING CONDITIONS

SITE WAS PREVIOUSLY ROUGH GRADED AND COMPACTED AS PART OF THE ORIGINAL DEVELOPMENT. ALL PROPOSED STORM WATER RUNOFF WAS DESIGNED TO BE ACCEPTED BY THE OVERALL SITE'S STORM DRAIN SYSTEM WHICH CONVEYS 100% OF DEVELOPED FLOWS VIA CONDUIT TO THE CALABACILLAS ARROYO.

ORIGINAL PLAN INCLUDED 22,000 S.F. OF ROOF AREA WITH APPROXIMATELY 60% IMPERVIOUS GROUND COVER AND A CORRESPONDING COMPOSITE 'C' VALUE OF 0.71.

PREVIOUS TOTAL $Q_{100} = 6.5$ CFS
 $V_{100} = 11,050$ CU.FT.

PREVIOUS TOTALS WITH 40' FUTURE R.O.W. INCLUDED:
 $Q_{100} = 8.4$ CFS
 $V_{100} = 7,200$ CU.FT.

PROPOSED CONDITIONS

MEDICAL COMPLEX NOW CONSISTS OF FIVE (5) DIFFERENT FINISHED FLOOR ELEVATIONS AND ONE CONTINUOUS ROOF VERSUS THE PREVIOUS FOUR SEPARATE STRUCTURES AS FOUND ON THE ORIGINAL PLAN. DEVELOPED RUNOFF IS BASED ON THE FOLLOWING SITE DATA.

AREA = $200' \times 541' = 108,200$ S.F. = 2.48 AC.
PRECIPITATION = 2.2" (PLATE 22.2, D-1), 100 YR.
 $\tau_c = 10$ MIN.
 $\lambda = 4.75$
 $C = 0.71$ (CONSISTENT W/ORIGINAL REPORT)

$Q_{100} = (0.71)(4.75)(2.48) = 8.4$ CFS (7.7 CFS)
 $Q_{10} = (0.657)(8.4) = 5.5$ CFS (3.75 CFS)
 $V_{100} = 7,202$ CU.FT.
 $V_{10} = (0.657)(7,202) = 4,732$ CU.FT.

BASED ON:
CN = 54 (PL. 22.2, C-2)
% IMP = 65%
CN(COMPOSITE) = 82 (PL. 22.2, C-3)
DIRECT RUNOFF = $C_{100} = 0.8$ (PL. 22.2, C-4)
 $V_{100} = 4A$

