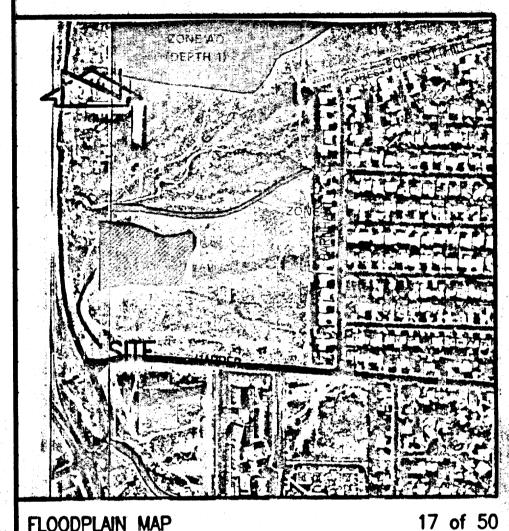
VICINITY MAP SCALE: 1'' = 750'



FLOODPLAIN MAP

LEGAL DESCRIPTION

A PORTION OF PARCEL B-5-B-1, UNIT 5, ACADEMY ACRES SUBDIVISION, ALBUQUERQUE, NEW MEXICO

PROJECT BENCHMARK

A SQUARE " CHISELED ON TOP OF CONCRETE CURB AT THE S.S.E. CURB RETURN LOCATED AT THE INTERSECTION OF OSUNA ROAD AND WEST FRONTAGE ROAD OF INTERSTATE 25. FLEVATION = 5169.937' (M.S.L.D.)

T.B.M.

ON N.E. BONNET BOLT OF FIRE HYDRANT AS SHOWN ON ELEVATION = 5194.25' (M.S.L.D.)

LEGEND

TOP OF ASPHALT TOP OF ASPHALT CURB NATURAL GROUND TOP OF CURB TCO TOP OF CONCRETE FLOW LINE TOP OF WALL LIGHT POLE

DECIDUOUS TREE

SHRUB

PROPOSED SPOT ELEVATION FLOW LINE

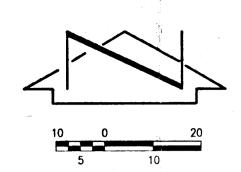
SITE/BASIN LIMIT PROPOSED CONCRETE

PROPOSED CONTOUR

PROPOSED ASPHALT PAVING

TC 88.85

AS-BUILT ELEVATION AS-BUILT / AS DESIGNED ELEVATION



SCALE: 1'' = 20'

Two (2) working days prior to any excavation, contractor must contact New Mexico One Call System 260-1990, for location of existing utilities.

Prior to construction, the contractor shall excavate and verify the horizontal and vertical location of all potential obstructions. Should a conflict exist, the contractor shall notify the engineer in writing so that the conflict can be resolved with a minimum amount of delay.

All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.

All construction within public right-ofway shall be performed in accordance with applicable City of Albuquerque Standards and Procedures.

If any utility lines, pipelines, or

+ 85.47

GRADE

PUDDLE IN EXISTING \$88.35

WHEELCHAIR RAMP

C 88.95

DECIDUOUS TREE

88.45

CURB & GUTTER

ASPHALT -

+ 87.16

underground utility lines are shown on these drawings, they are shown in an approximate manner only, and such lines may exist where none are shown. If any such existing lines are shown, the location is based upon information provided by the owner of said utility, and the information may be incomplete, or may be obsolete by the time construction commences. The engineer has conducted only preliminary investigation of the location, depth, size, or type of existing utility lines, pipelines, or underground utility lines. This investigation is not conclusive, and may not be complete, therefore, makes no representation pertaining thereto, and assumes no responsibility or liability therefor. The contractor shall inform itself of the location of any utility line in or near the area of the work in advance of and during excavation work The contractor is fully responsible for any and all damage caused by its failure to locate, identify and preserve any and all existing utilities, pipelines, and

and conducting excavation, the contractor shall comply with state statutes. municipal and local ordinances, rules and BASE 87.73 regulations, if any, pertaining to the location of these lines and facilities. The design of planters and landscaped areas is not part of this plan. All

underground utility lines. In planning

planters and landscaped areas adjacent to the building(s) shall be provided with positive drainage to avoid any ponding adjacent to the structure. For construction details, refer to landscaping plan.

Erosion Control Measures:

1. The contractor shall ensure that no soil erodes from the site into public rightof-way or onto private property.

2. The contractor shall promptly clean up any material excavated within the public right-of-way so that the excavated material is not susceptible to being washed down the street.

3. The contractor shall secure "Topsoil Disturbance Permit" prior to beginning

DRAINAGE PLAN

The following items concerning the Presbyterian IFMA/NMB Drainage Plan are contained hereon:

> Vicinity Map Grading Plan Calculations Floodplain Map

As shown by the Vicinity Map, the site is located on Pan American Drive between Harper Drive N.E. and Forest Hills Drive N.E. At present, the site is already developed making this a modification to an existing site.

As shown by Panel 17 of 50 of the National Flood Insurance Rate Map (F.I.R.M.) published by F.E.M.A. for the City of Albuquerque, New Mexico dated October 14, 1983, the site does not lie within a designated Flood Hazard Zone. The site, however, does contribute to a flood hazard zone located northwest of the site. Interim detention ponding is no longer required because the downstream conditions are now improved upon per the Northside Professional Plan, E18/D29, prepared by Boyle Engineering. This plan required the placement of a 83° x 57° CMAP, to cross Pan American. Visual site inspection revealed a 81" x 60" CMAP which is slightly larger than the aforementioned pipe and therefore satisfies the criteria for free discharge. Free discharge from the site is therefore justified since: 1) the site improvements are a modification to an existing site within an infill area; 2) the negligible downstream runoff volume increase within the site; and 3) the improvements (81" x 60" CMAP) has been constructed.

The Grading Plan shows 1) existing and proposed grades indicated by spot elevations and contours at 1'0" intervals, 2) the limit and character of the existing and proposed improvements, and 3) continuity between existing and proposed grades. Development of the site consists of the construction of an addition to the existing medical building, with associated asphaltic and concrete paving. The surrounding site is already developed making this an infill area.

The Calculations which appear hereon analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. The Procedure for 40—acre and Smaller Basins, as set forth in the Revision of Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, dated January, 1993, has been used to quantify the peak rate of discharge and volume of runoff generated. The development scenario of the site is consistent with the existing development. As shown by these calculations, the increase in impervious area is slight. This is reflected in the minimal increase in runoff volume. The peak discharge rate, though, does not increase.

N.E. BONNET BOLT

ELEV.=5194.25

92.62

1 THIS PLAN HAS BEEN REVISED TO REDUCE THE SIZE OF THE PROPOSED BUILDING ADDITION.

BUILDING 2 NOT BUILT

TRENCH DRAIN FOR ROOF DRAINAGE

(SEE ARCHITECTURAL PLAN, SHEET C2)

BUILDING

FF=5191.47

END STANDARD C&G

Site Characteristics

Precipitation Zone = 2. $P_{6,100} = P_{360} = 2.60$ in.

3. Total Area $(A_T) = 0.83$ ac

4. Existing Land Treatment 7 14.4 31,070/0.71 85.6

CALCULATIONS

5. Developed Land Treatment

31,070/0.71

Existing Condition

 $E^{\mathbf{M}} = (E^{\mathbf{A}} \mathbf{A}^{\mathbf{A}} + E^{\mathbf{B}} + E^{\mathbf{C}} \mathbf{A}^{\mathbf{C}} + E^{\mathbf{D}} \mathbf{A}^{\mathbf{D}}) / \mathbf{A}^{\mathbf{L}}$

 $E_{w} = [(0.92)(0.11) + (2.36)(0.72)]/(0.83) = 2.17$ in

 $V_{100} = (E_W/12)A_T$

 $V_{100} = ((2.17)/12)(0.83) = 0.1500 \text{ ac.ft.} = 6,535 \text{ cf}$

2. Peak Discharge

 $Q_{p} = Q_{PA} A_{A} + Q_{PB}A_{B} + Q_{PC}A_{C} + Q_{PD}A_{D}$

 $Q_p = Q_{100} = (2.60)(0.11)+(5.02)(0.72) = 3.9 \text{ cfs}$

1 Developed Condition

 $E^{M} = (E^{A}A^{A} + E^{B} + E^{C}A^{C} + E^{D}A^{D}) \setminus A^{L}$

 $E_W = [(0.92)(0.12)+(2.36)(0.71)]/(0.83) = 2.15 in.$

 $V_{100} = (E_W/12)A_T$

 $V_{100} = ((2.15)/12)(0.83) = 0.1488$ ac.ft. = 6,485 cf

2. Peak Discharge

 $Q_p = Q_{PA} A_A + Q_{PB} A_B + Q_{PC} A_C + Q_{PD} A_D$

 $Q_p = Q_{100} = (2.60)(0.12)+(5.02)(0.71) = 3.9 \text{ cfs}$

1. $\Delta V_{100} = 6,535 - 6,485 = 50$ cf (decrease)

2. $\Delta Q_{100} = 3.9 \stackrel{?}{=} 3.9 = 0.0$ (no change)

DRAINAGE CERTIFICATION

As indicated by the as-built information shown hereon, the Presbyterian IFMA/NMB building addition has been constructed in substantial compliance with the approved grading plan with the following exceptions.

1. The existing curb and gutter north of the handicapped parking area was not removed and replaced. An existing low area in the curb and gutter located at the northwest corner of the handicapped parking area causes a bird bath in this location. (See plan to the left.) This bird bath is minor in extent and an existing condition not created by the new construction. It does not create a problem in the overall drainage of the site.

The slopes in the handicapped parking spaces exceed those of the approved plan. This may impact ADA compliance, however, does not present a problem with respect to drainage.

The information presented hereon has been obtained by me or under my direct supervision and is true and correct to the best of my knowledge and belief. It is based upon this information that issuance of a Permanent Certificate of Occupancy for drainage purposes is hereby recommended.



ASSAULT RESTRICTION OF THE SECOND

6010-B MIDWAY PARK BLVD. N.E.
ALBUQUERQUE | NEW MEXICO 87109
ENGINEERS | SURVEYORS (505) 345-4250

A CRADING AND DRAINAGE PLAN PRESBYTERIAN IFMA/NMB

REVISIONS 950187 DESIGNED BY M.F.D. 7/95 M.F.D. GRADING, VERBAGE, CALCS., BUILDING 3/96 M.F.D. AS-BUILT AND CERTIFY 03-1996 DRAWN BY APPROVED BY J.G.M. SHEET

