HYDROLOGY E19/D5 1 PLAN

E19/D5

1 Plan

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

FILE COPY

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

March 20, 1984

Mr. John Bettis
Enchantment Engineering
9910 Indian School Road NE
Albuquerque, NM 87112

REF: DRAINAGE PLAN FOR ACADEMY BAPTIST (E19-D5)

Dear Mr. Bettis:

Based on the information provided on your March 8, 1984 resubmittal, the above referenced drainage plan is approved.

Because of the complexity of the overall drainage concept, it may be beneficial to advise your client that certification by your firm may help expedite issuance of the final certificate of occupancy upon completion of the project.

The approved "Drainage Facilities Within City R/W" documents for both facilities must be attached to the construction sets before Hydrology will sign-off.

If you have any questions or comments, please feel free to call me at 766-7644.

Sincerely,

Bernie J. Montoya

Bernie J. Montoya
Hydrologic Engineering Tech.
C.E.

BJM:mrk

ENCHANTMENT ENGINEERING, INC.

CIVIL CONSULTING ENGINEERS
J.W. BETTIS, REG. P.E. & L.S.

9910 INDIAN SCHOOL NE
PHONE 294-6859

MAIL TO BOX 11571
ALBUQUERQUE, NEW MEXICO 87192

March 8, 1984

Mr. Bernie J. Montoya
Technician/ Hydrologic Engineering
City of Albuquerque, New Mexico

RE: REVISIONS TO PHASE ONE DRAINAGE, ACADEMY BAPTIST CHURCH
(E19-D5)

Dear Bernie:

Both of the requested amendments to the abovementioned drainage plan have been made or the plan sheet. I've included both revision dates and have extended the inlet lips on the emergency spillway. There should now be enough detail to ensure that it will be constructed as designed. The building plans have been submitted to plan check section and I will include this plan sheet with them (Sheet 2 of building set) upon final approval.

Very truly yours;

Ed Kiess

cc: files
J. Douglas Cain, Architect
Craig Ledbetter, project manager

RECEIVED
MAR 08 1984
HYDROLOGY SECTION

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

FILE COPY

February 24, 1984

Mr. John Bettis
Enchantment Engineering
9910 Indian School Road NE
Albuquerque, NM 87112

REF: DRAINAGE PLAN FOR ACADEMY BAPTIST (E19-D5)

Dear Mr. Bettis:

Based on the information provided on your February 10, 1984 resubmittal of the above referenced drainage plan, listed below you will find certain concerns that will need to be addressed before final approval is granted.

1. Professionals stamp with signature and date.

2. Your emergency spillway hydraulics are taking into account the complete rundown channel. I need for you to analyze the top entry portion and treat it as a broad crested weir. Using Q=CLH 3/2 for a broad crested weir, I compute a required depth of 1.15 feet, you show 6 inches.

Please advise your clients that the improvements of the 10 foot drainage easement will be part of Phase I.

If you have any further questions, feel free to call me at 766-7644.

Sincerely,

Bernie J. Montoya

Bernie J. Montoya
Hydrologic Engineering Tech.
C.E.

BJM:mrk

INFORMATION SHEET

PROJECT TITLE ACADEMY BAPTIST PHASE I TYPE OF SUBMITTAL DRAINAGE PLAN

ZONE ATLAS PAGE NO. E-19 CITY ADDRESS 6601 WYOMING BOULEVARD, NE

LEGAL DESCRIPTION TRACT A-1, REPLAT OF TRACT 'A', ACADEMY ACRES UNIT 13

ENGINEERING FIRM ENCHANTMENT ENG. CONTACT ED KIESS

ADDRESS 9910 INDIAN SCHOOL RD. NE PHONE 294-8859

OWNER ACAD. BAPTIST CONTACT PASTOR JACK STRICKLAN

ADDRESS 6601 WYOMING BLVD. NE PHONE 321-5526

ARCHITECT J. DOUGLAS GAIN CONTACT

ADDRESS SUITE 713 SEMINARY SOUTH PO. BLDG. FORT WORTH, TEXAS 76115 PHONE

SURVEYOR ENCHANTMENT CONTACT

ADDRESS PHONE

CONTRACTOR CONTACT

ADDRESS PHONE

DATE SUBMITTED FEB. 3 1984

BY

RECEIVED
FEB 10 1984
HYDROLOGY SECTION

ENCHANTMENT ENGINEERING, INC.

CIVIL CONSULTING ENGINEERS
J.W. BETTIS, REG. P.E. & L.S.

9910 INDIAN SCHOOL NE
PHONE 294-6859

MAIL TO BOX 11571
ALBUQUERQUE, NEW MEXICO 87192

February 10, 1984

Mr. Bernie J. Montoya
Hydrologic Engineering
City of Albuquerque, New Mexico

RE: AMENDMENTS TO DRAINAGE PLAN, PHASE I, ACADEMY BAPTIST CHURCH (E19-D5)

Dear Bernie:

Included with this letter is the revised drainage plan of the first phase construction of Academy Baptist Church. Included is the topo sheet showing the existing conditions on site with the necessary vicinity map, offsite flows study, bench mark data and statement of proposed disposal routing. I've also included the bench mark data and T.B.M. on the first phase sheet.

The drain to Burlison Drive has been drawn on the City contract sheets and submitted to Mr. Kielich's office. I've included copies for your file.

Curb elevations, flow line elevations to m.s.l.d. and the roof drain locations have been added to plan.

The design for improvement of the 10' drainage easement was done by Meurer, Serafini and Meurer, Inc. in 1979 and is included in plan set C-28-96 for BEAR CANYON VILLAGE, Tracts H & J, Unit 2.

Included on plan sheet note the 36" chain link fence location and the emergency spillway (intended to be a temporary structure to serve until subsequent phasing) and its capacity calculations.

Our clients are aware of the need for separate drainage plans for each of the future phases.

Sincerely,

Ed Kiess
Technician, Enchantment Engineering

cc: files
Doug Cain, Architect
Jack Stricklan, Pastor

RECEIVED
FEB 10 1984
HYDROLOGY SECTION

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 30, 1984

Mr. John Bettis
Enchantment Engineering
9910 Indian School Rd. NE
Albuquerque, New Mexico 87112

RE: DRAINAGE PLAN FOR ACADEMY BAPTIST CHURCH (E19-D5)

Dear Mr. Bettis:

Based on the information provided on your January 18, 1984 submittal of the above referenced drainage plan, listed below you will find certain concerns that will need to be addressed before final approval is granted.

1. Please include information sheet with your revised submittal.

2. Vicinity map showing location of the development in relation to well known landmarks, municipal boundaries and zone atlas map index number.

3. Flood Hazard - delineation of site and contributing off-site water sheds.

4. Benchmark - location, description and elevation of the:
   a) Albuquerque Control Survey Vertical Datum.

5. The proposed 8"X18" drain onto Burlison will require a "Construction of Private Drainage in Public Right of Way document submitted to Bob Kielich's office for review. Please show the analysis of the flows to determine if the drain is adequate to handle the flows, also address any erosion that may take place.

6. Please include existing city top of curb and flow line elevations with mean sea level designation.

7. Please include location and direction of existing and proposed roof drains.

8. Design for improvement of the 10' drainage easement must be submitted to Bob Kielich's office for review.

9. According to your determined watersurface elevation of 94.9 and your pond bottom of 92.5 you will be required to fence the ponding area.

10. Pond emergency spillway design and calculations will be required.

11. Please include perimeter dimensions of said property.

12. Please advise your clients that further future development will require a separate drainage plan showing how each phase will be tied to each other.

If you have any questions pertaining to the above comments, please feel free to call me at 766-7644.

Sincerely,

Bernie J. Montoya

Bernie J. Montoya
Hydrologic Engineering
Technician C.E.

BJM/ca

ENCHANTMENT ENGINEERING, INC.

CIVIL CONSULTING ENGINEERS
J.W. BETTIS, REG. P.E. & L.S.

9910 INDIAN SCHOOL NE
PHONE 294-8859

MAIL TO BOX 11571
ALBUQUERQUE, NEW MEXICO 87192

January 18, 1984

E19-D5

Mr. Fred Aguirre
Civil Engineer/Hydrology
City of Albuquerque, New Mexico

RE: FIRST PHASE DRAINAGE PLAN FOR ACADEMY BAPTIST CHURCH

Dear Fred:

Attached to this letter is a letter received in our office on June 20, 1983 from Brian Burnett. We have attempted to address all the comments made in that letter and are resubmitting the revised plan. The church made some changes in their order of development and those changes have been made also.

Yours truly,

J. W. Bettis
P.E. & L.S.

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR NO. 3441 NEW MEXICO JOHN W. BETTIS

JWB/ewk

cc: Doug Cain, Architect
Acad. Baptist
files

RECEIVED
JAN 18 1984
HYDROLOGY SECTION

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

E19 - D5

June 17, 1983

Mr. John Bettis
Enchantment Engineering
9910 Indian School Rd. N.E.
Albuquerque, N.M. 87112

RE: REVISED DRAINAGE PLAN FOR ACADEMY BAPTIST CHURCH

Dear John:

Thank you for supplying the revised drainage plan for the referenced project. Before granting final approval I would appreciate your response to the following comments:

1. The finish floor elevation of the phase one building should be shown.

2. Please stamp, sign, and date the plans.

3. As the plans are drawn, an approved copy of "Construction of Private Drainage in Public Right-of-Way" will be required (the outlet pipe extends into the easement). I'd suggest that the pipe outlet be pulled back out of the easement, therefore, eliminating the need for the document.

4. I am abit concerned about the "gap" between the existing and proposed walls. In similar instances, this space has collected the runoff which falls there. Is there any way to insure that this area can be graded to positively drain? Your thoughts on this are appreciated.

5. As future development occurs, the items in my letter of Dec. 22, 1982 should be addressed as they apply to the construction.

If you should have any questions, please call.

Very truly yours,

Brian G. Burnett
Civil Engineer/Hydrology

BGB/tsl

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

E19 - D5

December 22, 1982

Mr. John Bettis
Enchantment Engineering
9910 Indian School Rd. N.E.
Albuquerque, N.M. 87112

RE: DRAINAGE PLAN FOR ACADEMY BAPTIST CHURCH

Dear John:

I have made an initial review of the referenced report and forward the following comments:

1. I am abit confused about the phasing of the improvements. What parking areas are to be constructed with each stage of the building construction? A phasing schedule should also be included for the proposed drain system. Will any interim drainage facilities (i.e. ponds, detention areas) be required for the project? Note that all interim facilities must be placed in temporary drainage easements and that the maintenance of such facilities is the responsibility of the property owner.

2. Please provide calculations for the proposed drain system. We have found that pipe diameters less than 12" are very difficult to maintain. Would it be more practical to place a 12" pipe throughout the entire system? Also, how are the inlets to operate? Are Single "D" inlets to be used?

3. I am concerned that runoff from the 10" outlet pipe will "jump" the opposite side of the drainage channel due to the skew on the pipe. It might be appropriate to place right-of-way of cinder blocks on the west side of the channel to provide the necessary freeboard.

4. How is the downstream system going to be affected by the developed runoff?

5. Any thoughts on how to mitigate the nuisance runoff?

6. Does the sidewalk grate have sufficient capacity to convey the runoff to Vista Del Monte N.E.?

7. Please indicate a TBM on the plans.

8. Please provide a completed Information Sheet.

9. How is runoff to be directed from the auditorium? Flow directions from the roof should be indicated. The internal drainage patterns for the development should also be shown.

10. A Special Order No. 19 will be required for the sidewalk culvert at Burlison. What are the ponding limits at this corner? We need to insure that water does not poll against the block wall.

I apologize for the delay in these comments. If you have any questions, please call.

Very truly yours,

Brian G. Burnett
Civil Engineer/Hydrology

BGB/tsl

2236