PLANS/PLATS ON FILE

FILE DESC: E-11/D022

PLANS/PLATS 3

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Cross of Hope Luth. Church ZONE ATLAS/DRNG.FILE #: E-11

LEGAL DESCRIPTION: Tract 8-1-B, Taylor Ranch Addition

CITY ADDRESS: 6104 Taylor Ranch Rd.

ENGINEERING FIRM: Chavez Grieves CONTACT: Jackie N/ McDowell

ADDRESS: 4600 C Montgomery PHONE: 881-7376

OWNER: Cross of Hope Lutheran Church CONTACT: Mike Hessheimer

ADDRESS: 6104 Taylor Ranch Rd. PHONE: 897-0047

ARCHITECT: Steve Day CONTACT: Steve Day

ADDRESS: St. Rt. Box 1438 Corrales PHONE: 898-6482

SURVEYOR: Christopher Dehler CONTACT: Christopher Dehler

ADDRESS: Star Rt. Box 393, Corrales, NM PHONE: 897-2029

CONTRACTOR: N/A CONTACT:

ADDRESS: PHONE:

RECEIVED
MAR 01 1988
HYDROLOGY SECTION

PRE-DESIGN MEETING:

X YES

___ NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO.

EPC NO.

PROJ. NO.

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

X DRAINAGE PLAN Revision

___ CONCEPTUAL GRADING & DRAINAGE PLAN

X GRADING PLAN Revision

___ 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

X CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER _____ (SPECIFY)

DATE SUBMITTED: 3/1/88

BY: Jackie N/ McDowell

CHAVEZ—GRIEVES / CONSULTING ENGINEERS, INC.
4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376

LETTER OF TRANSMITTAL

TO: City of Albuq PWD
Hydrology Section
Attn: Barbara

DATE: 3/1/88
JOB NO.
RE: Cross of Hope Lutheran Church
E-11 / D22

GENTLEMEN:

We are sending you X ATTACHED UNDER SEPARATE COVER the following items:

__ SHOP DRAWINGS __ CHANGE ORDER __ SPECIFICATIONS
__ COPY OF LETTER __ PLANS
X PRINTS __ SAMPLES

RECEIVED
MAR 01 1988
HYDROLOGY SECTION

COPIES	DATE	NO.	DESCRIPTION
2			Grading & Drainage Plan
1			Info Sheet.

THESE ARE TRANSMITTED as checked below:

X FOR APPROVAL
__ FOR YOUR USE
__ AS REQUESTED
__ FOR REVIEW AND COMMENT
__ APPROVED AS SUBMITTED
__ APPROVED AS NOTED
__ RETURNED FOR CORRECTIONS
__ RESUBMIT ___ COPIES FOR APPROVAL
__ SUBMIT ___ COPIES FOR DISTRIBUTION
__ RETURN ___ CORRECTED PRINTS
__ PRINTS RETURNED AFTER LOAN TO US
__ FOR BIDS DUE _____ 19__

REMARKS: Changed limits of grading in order to prevent erosion until future phases are constructed

COPY TO: file

SIGNED: [signature]

If enclosures are not as noted, kindly notify us at once.

CHAVEZ—GRIEVES / CONSULTING ENGINEERS, INC.
4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376

LETTER OF TRANSMITTAL

TO: City Hydrology Section
4th Floor City Hall
Attn: Barbara

DATE: 10/13/87
JOB NO.
RE: Cross of Hope Lutheran Church

GENTLEMEN:
We are sending you X ATTACHED ___ UNDER SEPARATE COVER the following items:

__ SHOP DRAWINGS __ CHANGE ORDER __ SPECIFICATIONS
__ COPY OF LETTER __ PLANS __
X PRINTS __ SAMPLES

COPIES	DATE	NO.	DESCRIPTION
1			Conceptual Grading & Drainage Plan
1			Info Sheet
1			Conference Recap
1			xerox of parts of "Design Memo. for North Corrs. Drainage Management Plan"

THESE ARE TRANSMITTED as checked below:

X FOR APPROVAL
__ FOR YOUR USE
__ AS REQUESTED
__ FOR REVIEW AND COMMENT
__ APPROVED AS SUBMITTED
__ APPROVED AS NOTED

__ RETURNED FOR CORRECTIONS
__ RESUBMIT ___ COPIES FOR APPROVAL
__ SUBMIT ___ COPIES FOR DISTRIBUTION
__ RETURN ___ CORRECTED PRINTS
__ PRINTS RETURNED AFTER LOAN TO US
__ FOR BIDS DUE

RECEIVED
OCT 13 1987
HYDROLOGY SECTION

REMARKS:

COPY TO: file

SIGNED: Paul S. McDonell

If enclosures are not as noted, kindly notify us at once.

CHAVEZ—GRIEVES / CONSULTING ENGINEERS, INC.
4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376

LETTER OF TRANSMITTAL

RECEIVED
OCT 04 1988
HYDROLOGY SECTION

TO: CITY OF ALBUQUERQUE
HYDROLOGY SECTION
4TH FLOOR - CITY HALL
ATTN STUART REYNOLDS

DATE: 10/4/88
JOB NO. D04-107-5087
RE: CROSS OF HOPE LUTHERAN CHURCH

GENTLEMEN:

We are sending you X ATTACHED ___ UNDER SEPARATE COVER the following items:

__ SHOP DRAWINGS __ CHANGE ORDER __ SPECIFICATIONS
__ COPY OF LETTER __ PLANS __ _____
X PRINTS __ SAMPLES

COPIES	DATE	NO.	DESCRIPTION
2			GRADING & DRAINAGE PLANS (SHEET C2)
1			DRAINAGE INFORMATION SHEET

THESE ARE TRANSMITTED as checked below:

X FOR APPROVAL
__ FOR YOUR USE
__ AS REQUESTED
__ FOR REVIEW AND COMMENT
__ APPROVED AS SUBMITTED
__ APPROVED AS NOTED
__ _____

__ RETURNED FOR CORRECTIONS
__ RESUBMIT ___ COPIES FOR APPROVAL
__ SUBMIT ___ COPIES FOR DISTRIBUTION
__ RETURN ___ CORRECTED PRINTS
__ PRINTS RETURNED AFTER LOAN TO US
__ FOR BIDS DUE _____ 19___

REMARKS:

COPY TO: FILE

SIGNED: Bill Tourney

If enclosures are not as noted, kindly notify us at once.

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

MAYOR
KEN SCHULTZ

CHIEF ADMINISTRATIVE OFFICER
GENE ROMO

DEPUTY CAO PUBLIC SERVICES
FRANK MARTINEZ

DEPUTY CAO PLANNING/DEVELOPMENT
BILL MUELLER

March 24, 1988

Ms. Jackie McDowell
Chavez-Grieves Consulting Engineers
4600-C Montgomery Boulevard, NE
Albuquerque, New Mexico 87109

RE: GRADING & DRAINAGE PLAN REVISION FOR CROSS OF HOPE LUTHERAN CHURCH, SUBMITTED MARCH 1, 1988, FOR CERTIFICATE OF OCCUPANCY APPROVAL (E-11/D22)

Dear Ms. McDowell:

Your submittal, referred to above, is approved for Certificate of Occupancy sign-off by the Hydrology Section.

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

Cordially,

Stuart Reeder

G. Stuart Reeder, P.E.
C.E./Hydrology Section

GSR

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Cross of Hope Lutheran Church ZONE ATLAS/DRNG.FILE #: E-11/D22

LEGAL DESCRIPTION: Tract S-1-B, Taylor Ranch Addition

CITY ADDRESS: 6104 Taylor Ranch Road

ENGINEERING FIRM: Chavez Grieves CONTACT: Victor Chavez

ADDRESS: 4600 C Montgomery Blvd PHONE: 881-7376

OWNER: Cross of Hope Lutheran Church CONTACT: Mike Hessheimer

ADDRESS: 6104 Taylor Ranch Road PHONE: 897-0047

ARCHITECT: Steve Day CONTACT: Steve Day

ADDRESS: St. Rt. Box 1438 Corrales PHONE: 898-6482

SURVEYOR: Christopher Dehler CONTACT: Christopher Dehler

ADDRESS: Star Rt. Box 393, Corrales PHONE: 897-2029

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

RECEIVED OCT 04 1988 HYDROLOGY SECTION

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

X GRADING/PAVING PERMIT APPROVAL

____OTHER ____ (SPECIFY)

DATE SUBMITTED: 10/4/88

BY: Bill Fox

FILE COPY

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

ALBUQUERQUE NEW MEXICO 1706
KEN SCHULTZ
MAYOR

October 19, 1988

Victor Chavez, P.E.
Chavez-Grieves Consulting Engineers
4600-C Montgomery Boulevard, NE
Albuquerque, New Mexico 87109

RE: REVISED DRAINAGE & GRADING PLAN FOR THE CROSS OF HOPE LUTHERAN CHURCH (E-11/D22) REVISION DATED OCTOBER 4, 1988

Dear Mr. Chavez:

Based on the information provided on your resubmittal of October 4, 1988, the above referenced plan is approved for Building Permit.

Please attach a copy of this plan to the construction sets prior to sign-off by Hydrology.

If I can be of further assistance, please feel free to call me at 768-2650.

Cordially,

Bernie J. Montoya

Bernie J. Montoya, C.E.
Engineering Assistant

BJM/bsj
(WP+460)

MEMORANDUM

RECEIVED
NOV 10 1987
HYDROLOGY SECTION

DEVELOPMENT DIVISION

November 10, 1987

TO: Stuart Reeder, Hydrology Section

FROM: Bill Westmoreland, Water/Liquid Waste Section

SUBJECT: CROSS OF HOPE LUTHERAN CHURCH - File No. E-11/D22, DRB-87-542

An amended Site Development Plan for the above-referenced project was heard at DRB this date. Among other changes, a previously required fire hydrant was deleted on the basis that the proposed buildings would be provided with fire sprinklers. This Section has no objection to that proposal. However, there is no way to insure that a private fire line for the sprinkler system is obtained through Customer Services except in the Building Permit process.

We are hereby requesting that we be contacted prior to approval of the Building Permit to verify that application for a private fire line to this site has been made at Customer Services.

xc: W.H. Nickerson, Jr.
J. Gutierrez, Customer Services
Fred Aguirre, City Hydrologist
Jackie McDowell, Chavez - Grieves
Stephen C. Day, Architect
Rick Duran, Hydrology Inspector

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz
Mayor

UTILITY DEVELOPMENT DIVISION
HYDROLOGY SECTION
(505) 768-2650

October 23, 1987

Jackie McDowell
Chavez-Grieves Consulting Engineers
4600-C Montgomery Boulevard, NE
Albuquerque, New Mexico 87109

RE: CONCEPTUAL GRADING & DRAINAGE REPORT FOR CROSS OF HOPE LUTHERAN CHURCH SUBMITTED OCTOBER 13, 1987 FOR SITE DEVELOPMENT PLAN APPROVAL (E-11/D22)

Dear Ms. McDowell:

Your submittal, referred to above, is approved for Site Development.

For Building Permit sign-off by the Hydrology Section, please add the following:

- the property line;
- a detail of the outfall control that limits the flow to 1.84 cfs; and
- the contours of the pond. Since it is a detention pond, it will be required to be sloped to drain completely. In our view, the most desirable section has a narrow, cobble-lined bottom for low flow, and grassed side slopes. The grassed area makes the ground more permeable and helps control erosion.

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

Cordially,

Stuart Reeder

G. Stuart Reeder, P.E.
C.E./Hydrology Section

GSR/bsj

xc: Owner
Architect

FILE COPY

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

December 23, 1987

INTER-OFFICE CORRESPONDENCE

ENGINEERING GROUP

TO: Tom Aragon, Transportation System Division

FROM: for Fred J. Aguirre, Hydrologist; Engineering Group/PWD Roger Green

SUBJECT: PRIVATE DRAINAGE FACILITIES WITHIN PUBLIC RIGHTS-OF-WAY/EASEMENT
CROSS OF HOPE LUTHERAN CHURCH (E-11/D22)

Transmitted herewith, is a copy of the approved drainage plan for the referenced project incorporating the S.O. #19 design.

In accordance with the new process, this plan is being submitted to you for permitting and inspection. Please provide this section with a signed-off copy per the signature block upon construction and acceptance by your office.

As you are aware, the signed-off S.O. #19 is required by this office for Certificate of Occupancy release; hence your expeditious processing of this plan would be greatly appreciated and would avoid any unnecessary delay in the release of the Certificate of Occupancy.

Thank you for your cooperation, and if you should have any questions and/or comments regarding the process, please feel free to call me at 768-2650.

FJA/bsj

Attachment

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz
Mayor

UTILITY DEVELOPMENT DIVISION
HYDROLOGY SECTION
(505) 768-2650

December 23, 1987

Jackie McDowell
Chavez-Grieves Consulting Engineers
4600-C Montgomery Boulevard, NE
Albuquerque, New Mexico 87109

RE: GRADING & DRAINAGE REPORT FOR THE CROSS OF HOPE LUTHERAN CHURCH, SUBMITTED DECEMBER 10, 1987 FOR BUILDING PERMIT APPROVAL (E-11/D22)

Dear Ms. McDowell:

Your submittal, Sheet C2, referred to above, with the engineer's stamp dated December 9, 1987, is approved for Building Permit sign-off by the Hydrology Section. This approved drawing must be included with the construction sets routed for permit sign-off.

Sheet C2 is also approved for construction of the private storm drain facilities within the public right-of-way. The contractor is required to obtain a separate excavation/construction permit for this improvement.

Prior to approval of the Certificate of Occupancy by our section, the through-the-curb installation, COA Standard 2235, will require City inspection and field sign-off.

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

Cordially,

Stuart Reeder

G. Stuart Reeder, P.E.
C.E./Hydrology Section

xc: Owner
Architect
Becky Sandoval, Permits

GSR/bsj

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Cross of Hope Luth. Church ZONE ATLAS/DRNG.FILE #: E-11/D22

LEGAL DESCRIPTION: Tract S-1-B, Taylor Ranch Addition

CITY ADDRESS: 6104 Taylor Ranch Rd.

ENGINEERING FIRM: Chavez Grieves CONTACT: Jackie McDowell

ADDRESS: 4600 C Montgomery PHONE: 881-7376

OWNER: Cross of Hope Lutheran Church CONTACT: Mike Hoestreimer

ADDRESS: 6104 Taylor Ranch Rd. PHONE: 897-0047

ARCHITECT: Steve Day CONTACT: Steve Day

ADDRESS: St. Rt. Box 1438 Corrales PHONE: 898-6482

SURVEYOR: Christopher Dehler CONTACT: Christopher Dehler

ADDRESS: Star Rt. Box 393, Corrales, NM PHONE: 897-2029

CONTRACTOR: N/A CONTACT:

ADDRESS: PHONE:

RECEIVED DEC 10 1987 HYDROLOGY SECTION

PRE-DESIGN MEETING:

X YES

___ NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO.

EPC NO.

PROJ. NO.

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

X DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

X 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

X BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER _____ (SPECIFY)

DATE SUBMITTED: 12/9/87

BY: Jackie McDowell

CHAVEZ—GRIEVES / CONSULTING ENGINEERS, INC.
4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 381-7376

LETTER OF TRANSMITTAL

TO: City of Albuq/Hydrology Section
Attn: Barbara

DATE: 12/9/87
JOB NO.
RE: Grace of Hope Lutheran Church

RECEIVED
DEC 10 1987
HYDROLOGY SECTION

GENTLEMEN:

We are sending you X ATTACHED __ UNDER SEPARATE COVER the following items:

__ SHOP DRAWINGS __ CHANGE ORDER __ SPECIFICATIONS
__ COPY OF LETTER __ PLANS __
X PRINTS __ SAMPLES

COPIES	DATE	NO.	DESCRIPTION
2			Grading & Drainage Plans (Rev. 12/9/87)
1			Info. Sheet

THESE ARE TRANSMITTED as checked below:

X FOR APPROVAL
__ FOR YOUR USE
__ AS REQUESTED
__ FOR REVIEW AND COMMENT
__ APPROVED AS SUBMITTED
__ APPROVED AS NOTED
__ RETURNED FOR CORRECTIONS
__ RESUBMIT ___ COPIES FOR APPROVAL
__ SUBMIT ___ COPIES FOR DISTRIBUTION
__ RETURN ___ CORRECTED PRINTS
__ PRINTS RETURNED AFTER LOAN TO US
__ FOR BIDS DUE _____ 19__

REMARKS:
Barbara, could you replace these plans with the ones submitted on 12/4/87 if they have not been reviewed yet. Thanx.

COPY TO: File

SIGNED: Jackie S McDowell

If enclosures are not as noted, kindly notify us at once.

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Cross of Hope Luth. Church ZONE ATLAS/DRNG.FILE #: E-11/D22

LEGAL DESCRIPTION: Tract S-1-B, Taylor Ranch Addition

CITY ADDRESS: 6104 Taylor Ranch Rd.

ENGINEERING FIRM: Chavez Grieves CONTACT: Jackie McDowell

ADDRESS: 4600 C Montgomery PHONE: 881-7376

OWNER: Cross of Hope Lutheran Church CONTACT: Mike Hessheimer

ADDRESS: 6104 Taylor Ranch Rd. PHONE: 897-0047

ARCHITECT: Steve Day CONTACT: Steve Day

ADDRESS: St. Rt. Box 1438 Corrales PHONE: 898-1482

SURVEYOR: Christopher Dehler CONTACT: Christopher Dehler

ADDRESS: Star Rt. Box 393, Corrales, NM PHONE: 897-2029

CONTRACTOR: N/A CONTACT: _____

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)

RECEIVED
OCT 13 1987
HYDROLOGY SECTION

DATE SUBMITTED: 10/13/87

BY: Jackie McDowell

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NO.: ~~9-4~~ E-11 DATE: 9-4-87

PLANNING DIVISION NOS: EPC: _____ DRB: _____

SUBJECT: Cross of Hope Lutheran Church

STREET ADDRESS (IF KNOWN): on Taylor Road

SUBDIVISION NAME: _____

APPROVAL REQUESTED:

____ PRELIMINARY PLAT	____ FINAL PLAT
____ SITE DEVELOPMENT PLAN	X BUILDING PERMIT
____ OTHER	____ ROUGH GRADING

ATTENDANCE:	WHO	REPRESENTING
	Jeffrey McDowell	
	Carl A Montoya	

FINDINGS:

1. Adding paving and small addition as per Phase II of E11-D22
2. Need to increase retention pond for added runoff.
3. I will discuss it further to determine if downstream improvements have been made.
4. Need to review Na Como Drainage Management Plan

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

RECEIVED OCT 1 1987

SIGNED: Carl A Montoya	SIGNED:
TITLE:	TITLE:
DATE: 9-4-87	DATE: 9/4/87

PLAN/PLATS

ON

FILE

(2)

THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

DESIGN MEMORANDUM
for the
NORTH COORS DRAINAGE MANAGEMENT PLAN
VOLUME I
PROJECT CONFIGURATION
HYDROLOGY
RIGHT-OF-WAY
COST ESTIMATES

Prepared for:

Albuquerque Metropolitan Arroyo Flood Control Authority
P.O. Box 2585
Albuquerque, New Mexico 87103

Prepared by:

SCANLON AND ASSOCIATES, INC.
8008 Pennsylvania Circle NE
Albuquerque, New Mexico 87110

October 1984
Job No. 83137.10

Maintenance of the Corrales Riverside Drain would not be eliminated by the implementation of Option C. Severe obstruction of the Drain would require maintenance so as not to exceed allowable upstream flood levels. In addition, the existing nuisance problems created by standing water might be aggravated by this Option.

3. SUBBASIN RESTRICTIONS

The implementation of the North Coors Drainage Management Plan will include restrictions on the runoff to be placed in the facility. In preparing the Plan and evaluating capacities, certain assumptions about the nature of upstream development and location of discharge points were made. In addition, the Plan maps suggest ponding areas and peak flow rates in areas somewhat remote from the proposed facilities to be constructed. The inclusion of many of these items was for convenience in modeling the expected channel flows and to suggest to land owners some possible design considerations. The essential elements to implement the proposed Plan improvements include peak flow rates in channel sections, capacities of inlet structures, and provisions for sediment removal upstream of channel inlets. Where a single pond is shown on conceptual drawings, multiple ponds may be appropriate depending on land ownership and development patterns. Staging of development should not be precluded so long as capacity of downstream conveyances is adequate. Placing facilities on some tracts may alter slightly the shape and area of subbasins. Again the capacity of the receiving facility should govern the design of drainage systems.

Requirements for sedimentation are based on projections taken from existing conditions and previous studies made in the area. As development becomes more intensive, sediment volumes produced annually and from major storms will likely be reduced.

Complete elimination of all sediment storage would be extremely unlikely, however. Sediment estimates do not consider major construction activities, diversions increasing natural flow rates, and new unprotected facilities which may produce much more sediment than the average amount anticipated.

~~Table 1 contains a tabulation of design constraints for the various subbasins within the Plan area.~~ These values should serve as a guide for reviewing agencies in evaluating compliance with the North Coors Drainage Management Plan design criteria.

II. HYDROLOGY

A. RUNOFF

The area covered by the North Coors Drainage Management Plan receives runoff from 2584 acres. It is necessary to determine the volume and instantaneous quantities of water that will be discharged from the smaller upstream areas in order to design facilities. Both the existing condition and the impacts of future development and drainage improvements must be considered in order to design drainage structures.

SUBBASIN NO.	AREA ac	SEDIMENT STORAGE REQUIRED	ALLOWABLE MAXIMUM DISCHARGE cfs	MAXIMUM DISCHARGE PER ACRE cfs/acre	PROJECTED DETENTION POND VOLUME ac ft	ac ft/acre
2.1 W	36.240	0.85	n/a	n/a	n/a	n/a
3.1 W	33.18	0.08	6.0	0.18	2.60	0.078
4.1 W	82.56	0.19	20.0	0.24	5.50	0.067
4.2 E	15.08	0.04	74.0	4.91	0.00	0.000
5.1 W	124.60	0.46	184.0	1.48	0.53	0.004
5.2 E	13.68	0.03	64.0	4.68	0.00	0.000
6.1 E	38.11	0.09	78.0	2.05	0.00	0.000
8.1 W	14.12	0.03	20.0	1.42	0.24	0.017
8.2 W	48.26**	—	0.0	0.00	—	—
8.3 E	70.00	0.16	110.0	1.57	0.00	0.000
10.1 W	124.43	0.56	71.6	0.58	6.52	0.052
10.2 E	40.19	0.09	85.8	2.13	0.00	0.000
11.1 W	46.39	0.25	44.3	0.95	1.47	0.032
11.2 E	7.79	0.02	30.7	3.94	0.00	0.000
12.1 W	34.19	0.08	35.0	1.02	0.33	0.010
12.2 W	14.35	0.03	20.0	1.39	0.17	0.012
12.3 E	13.28	0.03	31.9	2.40	0.00	0.000
13.1 W	12.78	0.03	20.5	1.60	0.00	0.000
13.2 E	9.47	0.02	29.1	3.07	0.00	0.000
14.1 W	29.25	0.07	13.4	0.46	0.00	0.000
14.2 E	4.26	0.01	16.7	3.92	0.00	0.000
15.1 W	16.37	0.04	9.0	0.55	0.00	0.000
15.2 W	40.80	0.10	21.3	0.52	0.00	0.000
15.3 E	13.90	0.03	36.9	2.65	0.00	0.000
16.1 W	21.30	0.05	11.6	0.54	0.00	0.000
16.2 W	42.54	0.10	21.4	0.50	0.00	0.000
16.3 E	30.99	0.07	83.3	2.69	0.00	0.000
17.1 W	6.56	0.02	4.2	0.64	0.00	0.000
17.2 W	30.94	0.07	15.0	0.48	0.00	0.000
17.3 W	26.62	0.06	11.9	0.45	0.00	0.000
17.4 E	48.37	0.11	112.8	2.33	0.00	0.000
18.1 W	224.57	0.53	69.8*	0.31*	4.76	0.021
18.2 W	93.32	0.22	69.3*	0.74*	1.37	0.015
18.3 E	44.84	0.11	13.1*	0.29*	1.49	0.033
19.1 W	39.01	0.09	30.9*	0.79*	0.85	0.022
19.2 W	75.33	0.18	35.0*	0.46*	4.06	0.054
19.3 E	35.54	0.08	10.0*	0.28*	1.20	0.034
19.4 E	29.88	0.07	21.3*	0.71*	3.50	0.117
20.1 W	22.59	0.05	34.3*	1.52*	0.18	0.008
20.2 W	45.12	0.11	18.7*	0.41*	1.27	0.028
20.3 W	62.77	0.15	16.2*	0.26*	2.57	0.041
20.4 W	21.02	0.05	14.0*	0.67*	0.00	0.000
20.5 E	92.83	0.22	25.9*	0.28*	3.28	0.035
20.6 E	33.00	0.08	9.2*	0.28*	1.16	0.035
21.1 E	101.72	0.24	40.1*	0.39*	2.09	0.021

V_{DEV} = 7.99 AC.FT

Rev 2/11/85

* SEE TABLE 3 FOR ADDITIONAL DISCHARGE CRITERIA FOR THIS SUBBASIN
** AREA FLOWS TO CALABACILLAS ARROYO AT DEVELOPED CONDITIONS

TABLE 1

PLAN/PLATS

ON

FILE

1456

HYDROLOGY

E11/D22

CROSS OF HOPE
CHURCH

E11 – D22

2 PLANS

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

HYDROLOGY SECTION PROJ. NO. E11 DATE: 9/13/84

PLANNING DIVISION NO. _____

CONFERENCE RECAP

SUBJECT: Cross of Hope Lutheran Church
Tract S-1B of Taylor Ranch Summary Plat

ATTENDANCE: WHO	REPRESENTING
Rich Allen	
Jeff Bergman	
Fred J. Aguirre	

FINDINGS:

1. An approved drainage report is required for site development plan sign-off.

2. The City will provide within 2 weeks the allowable discharge criteria to be used by this site and other developments within this drainage basin.

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: [illegible]	SIGNED: Richard L. Allen
TITLE:	TITLE:
DATE: 9/13/84	DATE: 9/13/84

INFORMATION SHEET

PROJECT TITLE Cross of Hope Church TYPE OF SUBMITTAL DRAINAGE PLAN

ZONE ATLAS PAGE NO. E11/D22 new CITY ADDRESS 6104 Taylor Ranch Drive, N.W.

LEGAL DESCRIPTION TRACT S-1-B, Taylor Ranch Addition

ENGINEERING FIRM Design Professionals CONTRACT Richard H. Allen, PE

ADDRESS 4301 Carlisle Blvd, N.E. PHONE 881-6336

OWNER Cross of Hope Lutheran Church CONTACT Reverend Ron Barth

ADDRESS 4701 Montano Rd. N.W. PHONE 897-0698

ARCHITECT Design Professionals, Inc. CONTACT Sam Tosti

ADDRESS 4301 Carlisle Blvd, N.E. PHONE 881-6336

SURVEYOR Christopher Dehler CONTACT Christopher Dehler

ADDRESS _____ PHONE _____

CONTRACTOR Not Applicable CONTACT _____

ADDRESS _____ PHONE _____

PRE-DESIGN MEETING:

X YES
___ NO
X COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
X SITE DEVELOPMENT PLAN APPROVAL
___ FINAL PLAT APPROVAL
X BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
___ OTHER _____ (SPECIFY)

RECEIVED
OCT 31 1984
HYDROLOGY SECTION

DATE SUBMITTED: October 31, 1984

BY: Richard H. Allen, PE
RICHARD H. ALLEN, P.E.

DESIGN PROFESSIONALS, INC.
4301 CARLISLE BOULEVARD, NE/ALBUQUERQUE, NEW MEXICO 87107/(505) 881-6336

October 30, 1984

Mr. Fred Aguirre, P.E.
City of Albuquerque Hydrology Department
Post Office Box 1293
Albuquerque, New Mexico 87103

Subject: Cross of Hope Lutheran Church
6104 Taylor Ranch Drive (Zone Atlas E11)

Dear Mr. Aguirre:

Attached are two copies of the Information Sheet, Drainage Plan and Pre-Design Conference Re-Cap Sheet for the subject project. The Drainage Plan contains run-off calculations and a narrative discussing the approach used to analyze the existing site and the proposed development. It should be noted that the Phase II development will not occur for two to three years. Hopefully the down stream drainage problem will be resolved by that time and the on-site retention ponds can be eliminated.

Your earliest possible review and approval of this plan will be appreciated. Please advise if you have any questions.

Sincerely,

DESIGN PROFESSIONALS, INC.

Richard H. Allen

RICHARD H. ALLEN, P.E.
Vice-President

RECEIVED
OCT 31 1984
HYDROLOGY SECTION

ARCHITECTS/ENGINEERS
PRINCIPALS:
RICHARD H. ALLEN
GEORGE H. BOLLING
HOWARD S. COTTRELL

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

November 28, 1984

Mr. Richard H. Allen
Design Professionals
4301 Carlisle Boulevard NE
Albuquerque, NM 87110

REF: DRAINAGE PLAN FOR CROSS OF HOPE CHURCH (E11-D22) RECEIVED OCTOBER 31, 1984

Dear Mr. Allen:

I have reviewed the above referenced plan and forward the following comments:

1. Please show analysis of the inlet capacity. There may be problems with sediment in the inlet and in the 8 inch PVC. Please address sediment control measures for the inlet. Indicate more spot elevations to show the flow directions.

2. The elevation of the property line must be at least one foot above the flow line in the street.

3. We are reviewing the drainage plan under the assumption that there is no paved parking. Should this assumption change, the pond volume will have to be modified.

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

Sincerely yours,

Carlos A. Montoya
City/County Flood Plain Admin.

CAM:mrk

DESIGN PROFESSIONALS, INC.
4301 CARLISLE, NE, ALBUQUERQUE, N.M. 87107 (505) 881-6336

Date 12/1/84 Project No 8410

Project CROSS OF HOPE LUTHERAN CHURCH (E11-D22)

To: CITY HYDROLOGY

Attention: CARLOS MONTOYA

☐ Transmittal
☐ Memorandum
☐ Shop Drawing No.
Quantity

The attached 2 drainage plans incorporate your comments dated 11/28/84 as follows:

1. The grate capacity is shown on C-1. A sediment basin has been provided in the bottom of the catch basin.
2. Elevations have been shown along the PL at 0.33' above top of curb.
3. The parking area will be gravel surfaced as shown.

Please advise if there are any questions.

Signed: Richard Allen, PE

cc: File: 8410

RECEIVED
DEC 03 1984
DESIGN HYDROLOGY SECTION

ATTEN: CARLOS MONTOYA

INFORMATION SHEET

PROJECT TITLE Cross of Hope Church TYPE OF SUBMITTAL REVISED Final

ZONE ATLAS PAGE NO. E11/D22 CITY ADDRESS 6104 Taylor Ranch Drive, N.W.

LEGAL DESCRIPTION TRACT S-1-B, Taylor Ranch Addition

ENGINEERING FIRM Design Professionals CONTRACT Richard H. Allen, PE

ADDRESS 4301 Carlisle Blvd, N.E. PHONE 881-6336

OWNER Cross of Hope Lutheran Church CONTACT Reverend Ron Barth

ADDRESS 4701 Montano Rd. N.W. PHONE 897-0698

ARCHITECT Design Professionals, Inc. CONTACT Sam Tosti

ADDRESS 4301 Carlisle Blvd, N.E. PHONE 881-6336

SURVEYOR Christopher Dehler CONTACT Christopher Dehler

ADDRESS _____ PHONE _____

CONTRACTOR Not Applicable CONTACT _____

ADDRESS _____ PHONE _____

PRE-DESIGN MEETING:

X YES
___ NO
X COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
X SITE DEVELOPMENT PLAN APPROVAL
___ FINAL PLAT APPROVAL
X BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
* OTHER RESPONSE TO HYDOLOGY COMMENTS DATED 11/28/84 (ATTACHED) (SPECIFY)

DATE SUBMITTED: DECEMBER 3, 1984

BY: Richard H. Allen, PE
RICHARD H. ALLEN, P.E.

RECEIVED
DEC 03 1984
DESIGN HYDROLOGY SECTION

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

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7544

December 10, 1984

Mr. Richard Allen
Design Professionals
4301 Carlisle Blvd., NE
Albuquerque, New Mexico 87110

RE: DRAINAGE PLAN FOR CROSS OF HOPE LUTHERAN CHURCH (E-11/D22)
RECEIVED DECEMBER 3, 1984

Mr. Allen:

The referenced plan, dated November 1, 1984, is approved.

Please attach a copy of the approved plan to the construction set prior to Hydrology sign-off.

Please be advised that the retention pond is a temporary solution to the site discharge. Downstream capacity will control site discharge when new facilities correct downstream problems.

If I can be of further assistance, please call me at 766-7644.

Cordially,

Carlos A. Montoya, P.E.
City/County Flood Plain Administrator

CAM/bsj

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Cross of Hope Lutheran Church ZONE ATLAS/DRNG. FILE #: E-11-Z/D22

LEGAL DESCRIPTION: Tract S-1-B of Taylor Ranch Summary Plat, Tract S-1 - Section 23, 25 & 26 T11N R2E NMPE Albuquerque, New Mexico filed with the Bernalillo County Clerk on March 4, 1981, September 1984.

CITY ADDRESS: 6104 Taylor Ranch Drive, N.W., Albuquerque, New Mexico

ENGINEERING FIRM: Design Professionals, Inc. CONTRACT: Jeff Bergmann

ADDRESS: 4301 Carlisle Blvd., N.E. PHONE: (505) 881-6336

OWNER: Ron Barth CONTACT: Ron Barth

ADDRESS: 6104 Taylor Ranch Drive, N.W. PHONE: (505) 897-0698

ARCHITECT: Design Professionals, Inc. CONTACT: Sam R. Tosti

ADDRESS: 4301 Carlisle Blvd., N.E. PHONE: (505) 881-6336

SURVEYOR: Albuquerque Testing Lab CONTACT: Robert K. Lloyd

ADDRESS: 532 Jefferson, N.E. PHONE: (505) 268-4537

CONTRACTOR: Stuart Hill Constr. CONTACT: Stuart Hill

ADDRESS: 9316 Susan, S.E., Albuq. N.M. PHONE: (505) 299-7415

RECEIVED JAN 16 1986 HYDROLOGY SECTION

PRE-DESIGN MEETING:

X YES
___ NO
___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. 84-649
EPC NO. Z-80-74-2
PROJ. NO. E11/D22

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT
___ DRAINAGE PLAN
___ CONCEPTUAL GRADING & DRAINAGE PLAN
___ GRADING PLAN
___ EROSION CONTROL PLAN
X ENGINEER'S CERTIFICATION

PLEASE CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
___ SITE DEVELOPMENT PLAN APPROVAL
___ FINAL PLAT APPROVAL
___ BUILDING PERMIT APPROVAL
___ FOUNDATION PERMIT APPROVAL
X CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
___ OTHER _____ (SPECIFY)

DATE SUBMITTED: January 15, 1986

BY: Sam R. Tosti

DESIGN PROFESSIONALS, INC.
4301 CARLISLE BOULEVARD, NE/ALBUQUERQUE, NEW MEXICO 87107/(505) 881-6336

January 10, 1986

RECEIVED
JAN 16 1986
HYDROLOGY SECTION

City of Albuquerque
Post Office Box 1293, Hydrology
Albuquerque, New Mexico 87103

ATTENTION: Mr. Bernie Montoya

SUBJECT: Certification of Drainage Plan/Phase I
Cross of Hope Lutheran Church at 6104 Taylor Ranch Drive, N.W.

Dear Mr. Montoya:

Attached are two (2) copies of the certified drainage plan for the subject facility. The certified plan is in substantial compliance with the approved drainage plan.

If there are any questions on this matter, please contact Jeffrey R. Bergmann or the undersigned.

Sincerely,

DESIGN PROFESSIONALS, INC.

HOWARD S. COTTRELL, P.E.
President

ARCHITECTS/ENGINEERS
PRINCIPALS:
GEORGE H. BOLLING
HOWARD S. COTTRELL

x-tra

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

January 17, 1986

Howard S. Cottrell, P.E.
Design Professionals, Inc.
4301 Carlisle Blvd., NE
Albuquerque, New Mexico 87107

RE: CERTIFICATION FOR PHASE I CROSS OF HOPE LUTHERAN CHURCH
6104 TAYLOR RANCH DRIVE, NW (E-11/D22)
CERTIFICATION STATEMENT DATED JANUARY 10, 1986

Dear Mr. Cottrel

Based on the information provided on your January 16, 1986 submittal, certification for the referenced drainage plan is acceptable.

Please advise your client that the retention pond is a temporary solution to the site discharge. It will be their responsibility to assure that connection into future facilities are coordinated with our office.

If I can be of further assistance, please call me at 766-7644.

Cordially,

Bernie J. Montoya

Bernie J. Montoya, C.E.
Engineering Assistant

BJM/bsj

1551