HYDROLOGY K22/D31 1 PLAN

K22/D31

1 Plan

Please File

CITY OF ALBUQUERQUE

ALBUQUERQUE, NEW MEXICO

RECEIVED
JUN 0 1986
HYDROLOGY SECTION

INTER-OFFICE CORRESPONDENCE June 3, 1986

REF. NO.

TO: Walt Nickerson, City Engineer

FROM: Alan Clark, Director, Library Department Alan

SUBJECT: Lomas/Tramway Branch Library Site Plan Revision

K22/D31

RECEIVED
JUN 04 1986
ENGINEERING DIVISION

I authorized revision to the approved grading and drainage plan for the Lomas/Tramway Branch Library prepared by Van Gilbert Associates. This work had to do with modifications to an entrance to this site from Roma Street.

RECEIVED
MAR 10 1986
HYDROLOGY SECTION

CITY OF ALBUQUERQUE

ALBUQUERQUE, NEW MEXICO

INTER-OFFICE CORRESPONDENCE February 24, 1986

REF. NO._____

TO: Fred Aguirre, Design Hydrologist

FROM: Greg Olson, Assistant City Engineer-Design Greg AHO 3/7

SUBJECT: Lomas-Tramway Foothills Branch Library

The project is presently being advertised for construction bid. Prior to construction an SO-19 permit is required for the 4" curb drains. As this project is a public facility located completely on City property, there is no need to obtain a permit between the City and the City. Therefore, I am requesting that the requirement for a SO-19 on this project be waived.

GRO/JL/ns

cc: Joe Luehring, Civil Engineer
Fred Aguirre

CONCUR: C. D. Sheppard 3/7/86
Dwayne Sheppard date

P.S. = Plans did not originally detail the "SO-19" work. They are being revised to clearly include this work and an addendum to that effect will be issued prior to Bid Opening on March 18.
Greg 3/7/86

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

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

February 17, 1986

Tom Isaacson
Isaacson & Arfman, P.A.
128 Monroe, NE
Albuquerque, New Mexico 87108

RE: REVISED DRAINAGE PLAN FOR FOOTHILLS LIBRARY
RECEIVED JANUARY 24, 1986 (K-22/D31)

Dear Tom:

The referenced plan dated January 24, 1986, is approved for Building Permit sign-off.

Please be advised that the final Certificate of Occupancy will not be released until the signed-off copy of the Special Order #19 is submitted to our office. (Approved by A.C.E./Design, Inspector, and A.C.E./Field.)

If you have any questions regarding this project, call me at 766-7644.

Cordially,

Carlos A. Montoya, P.E.
City/County Floodplain Administrator

BJM:CAM/bsj

Van H. G..bert Architect-A..

re: Foothills Library
K22/D31

RECEIVED
JAN 31 1986
DH636
HYDROLOGY SECTION

January 22, 1986

Mr. Fred Aguirre
Design Hydrology Section
123 Central Avenue N.W.
Albuquerque, New Mexico 87102

Dear Fred:

We are writing this letter to request that your office waive the necessity of having a Special Order #19 "Drainage Facilities within City Right-of-Way Easement" document attached to our drawings before a building permit is issued. On our drainage plan we instruct the Contractor to have this document prepared. He will, of course, have to have a licensed engineer do this work. We will reiterate this instruction regarding the necessity of the Special Order #19 to the choosen Contractor in writing and at the pre-construction conference. We realize the Special Order #19 document must be on file with the City before a Certificate of Occupancy is issued.

Your consideration of this matter is appreciated.

Sincerely,

James Graf

JG:jjr

2/5/86
THIS WAIVER IS OK'D BY ME CONFIRMATION WITH THE ARCHITECT.

Architecture
Planning
319 Central Ave NW
Suite 201
Albuquerque
New Mexico 87102
Telephone: 505 247 9955

INFORMATION SHEET

PROJECT TITLE Foothill Library TYPE OF SUBMITTAL RESUBMITTAL-REVISED Drainage & Grading Plan (PREVIOUSLY APPROVED)

ZONE ATLAS PAGE NO. K-22 CITY ADDRESS 13300 Lomas NE

LEGAL DESCRIPTION Block 5, Chelwood Park Addition

ENGINEERING FIRM Isaacson & Arfman, P.A. CONTACT Tom Isaacson

ADDRESS 128 Monroe St. NE PHONE 268-8828

OWNER City of Albuquerque CONTACT Allan Clark

ADDRESS 501 Copper NW, 87102 PHONE 766-7882

ARCHITECT Van H. Gilbert, AIA CONTACT Jim Graff

ADDRESS 319 Central NW, Suite 201 PHONE 247-9955

SURVEYOR City of Albuquerque CONTACT LaMonte Urban

ADDRESS 123 Central NE 87102 PHONE 766-5040

CONTRACTOR N/A 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
___ 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 JAN 24 1986 HYDROLOGY SECTION

DATE SUBMITTED: 1/24/86

BY: Thomas O. Isaacson
Thomas O. Isaacson

Isaacson & Arfman, P.A.
Consulting Engineering Associates

RECEIVED
JAN 24 1986
HYDROLOGY SECTION

Letter of Transmittal

To HYDROLOGY
123 CENTRAL NW
ALBUQUERQUE, NM

Date 1-24-86
Job No.

Attn: BARBARA

Reference FOOTHILLS BRANCH LIBRARY @ LOMAS / TRAMWAY

~~Gentlemen~~:

We transmit to you 1 copy~~(ies)~~ of the following

- [ ] Plats
- [x] REVISED DRAINAGE & GRADING Plans
- [ ] Specifications
- [ ] Report
- [ ] Shop Drawings
- [ ] Submittals
- [ ] Material Specifications
- [ ] Copy of Letter
- [x] - PLAN PREVIOUSLY APPROVED -
- [ ] (CONCEPTUAL APPROV LETTER ENCLOSED)

This information is transmitted:

- [ ] As per your request
- [x] For your review & approval
- [ ] For your information
- [ ] For your attention
- [ ] For your signature
- [x] For your files
- [ ] For your use
- [ ] Please review & return
- [ ] For return to your files
- [ ] Please advise
- [ ]
- [ ]

Remarks: ENTRANCE FROM ROMA AVE. RELOCATED TO EASTRIDGE DRIVE. DRAINAGE INFORMATION CORRECTED TO REFLECT CHANGE.

By: Scott McGee

Copies To FILE

128 Monroe, NE • Albuquerque, NM 87108 • (505) 268-8828

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

Engineer advised the architect requirement. Architect said that he would make it the responsible for the contractor and the City would be responsible for street grades.

January 24, 1985

Tom Isaacson
Isaacson & Arfman, P.A.
128 Monroe, NE
Albuquerque, New Mexico 87108

RE: REVISED DRAINAGE PLAN FOR FOOTHILLS LIBRARY (K-22/D31)
RECEIVED JANUARY 11, 1985

Dear Tom:

At this time, I can only give drainage concept approval. In order to give plan approval for inclusion in the building permit set, the plan will need to show the City approved grades for Roma Avenue or the associated project number. Also, the engineers signature with the complete date of review and approval will need to be on the stamp.

As you identified, Hydrology will not sign-off on the building permit set until the appropriately approved "Drainage Facilities Within City Right-of-Way/Easement" document is attached. This document has to be prepared by a registered engineer.

Should you have any questions or comments, please call this office.

Cordially,

Billy J. Goolsby

Billy J. Goolsby, C.E.
Design Hydrology Section

BJG/bsj

1/13/86
No objection to widening street grade requirements ~~[illegible]~~ existing street and improvements ~~[illegible]~~ the existing topography within Roma Ave ~~[illegible]~~ does not appear adverse to an adequate future street design. 1/13/86
Advised CDS on 1/13/86

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayne Sheppard, P.E., City Engineer — ENGINEERING DIVISION — Telephone (505) 766-7467

AN EQUAL OPPORTUNITY EMPLOYER

Isaacson &
Arfman, P.A.

Consulting Engineering
Associates

January 10, 1985

RECEIVED
JAN 11 1985
HYDROLOGY SECTION

Mr. Billy G. Goolsby
Design Hydrology Section
123 Central Ave. N.W.
Albuquerque, N.M. 87102

RE: Grading & Drainage for Foothills
Library (K-22/D31)

Dear Billy:

I have received your letter of January 3, 1985. I have revised the Plan and make the following comments in response to your letter. The numbered subparagraphs following below, coincide with the numbered comments in your letter.

1. Since we are not increasing the runoff from the site, there is no need to investigate the downstream facilities. Development of the site will not compound existing downstream capacity problems.

2. Three inch and four inch drain pipes are identified on the plans - see symbols found under the Legend. Specifications are provided - see "Drain Line Notes". Drainage inlets are shown on the plans - see symbol found under the Legend.

3. Top of curb and flowline elevations for City streets have been provided.

4. There are no existing or proposed easements or rights-of-way on the site.

5. The scale of the drawing has been provided.

6. A bench mark has been provided - see Paragraph B. To assist in locating the Bench Mark, it has been plotted at its location near the upper lefthand corner of the sheet. No onsite bench mark has been provided since the site will be fully graded and it would be destroyed. The permanent bench mark is within 150 feet of the site.

7. The complete finished floor elevation has been provided.

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8. Roof drains have been located - see symbols under Legend.

9. Water surfaces for ponds have been outlined - see symbol under Legend. The pond surface elevations are shown in the table found in Paragraph I. No ponds are located within 15 feet of the structure, or within 10 feet of any City street asphalt area. Ponding areas are identified by Legend and description.

10. Nuisance waters will be contained onsite.

11. No project number is available for the Roma Avenue street improvements. The number will be added when it is available.

12. The emergency spillway for the pond overflowing to the City right-of-way is shown - see symbol under Legend. Spillway will overflow through drivepad. See attached sheet for cross section and hydraulic analysis.

13. The responsibility for securing Special Order 19 documents is borne by the Contractor. A note has been added to the plan to explain this responsibility.

14. There are no swales provided on the Plan.

In addition to these revisions, there have been minor revisions to Drainage Areas 3 thru 6 due to a revision in the roof drainage system. Flow calculations for these areas have been revised. The net effects of these revisions are negligible.

Should you have any additional comments, please advise our office.

Very truly yours,

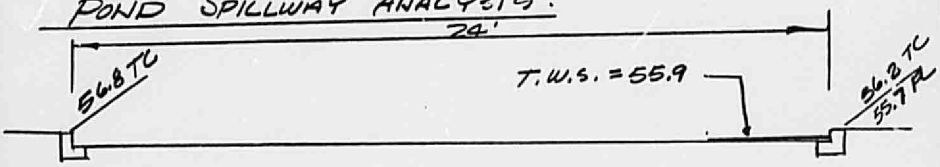
Tom Isaacson

Thomas O. Isaacson

TOI/naf

Attachment

POND SPILLWAY ANALYSIS:



CROSS SECTION
(LOOKING SOUTH)

Area = $\frac{2}{3} \times 24 \times 0.1$ = 0.96 s.f.

S = 0.9' ÷ 12' ÷ 10 = 7.50%

n = .018

Q = 3.8 cfs (Programable Calculator Solution of Manning Equation)

Isaacson & Arfman, P.A.

SUBJECT Foothills Library JOB NO.

BY TDI DATE 1/9/85 SHEET NO. OF

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

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

January 3, 1985

Tom Isaacson
Isaacson & Arfman, P.A.
128 Monroe Street, NE
Albuquerque, New Mexico 87108

RE: GRADING & DRAINAGE FOR FOOTHILLS LIBRARY (K-22/D31)
RECEIVED NOVEMBER 15, 1984

Dear Tom:

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

1. The discussion regarding downstream capacity is not sufficient. Identifying where the flows go and what structures exist does not quantify the capacity nor does it justify the proposed discharge.

2. Three (3) and four (4) inch drain pipes are identified in the computations. However, these pipes are not shown on the plans, nor are there any details provided. Where is the drainage inlet (shown in detail) located?

3. Top of curb and flowline elevations should be shown for all existing City streets within 25 feet of the property line.

4. Existing and proposed easements and/or right-of-ways, with their purpose, should be shown.

5. The scale for the drawing has not been provided.

6. The Bench Mark information with complete mean sea level designation has not been provided. Also, a TBM located on-site should be provided.

7. Finished Floor with complete mean sea level designation should be provided.

8. Roof drains should be located.

9. The water surface for ponding should be outlined and the elevation specified. Ponding on a pervious surface within 15 feet of a structure or 10 feet to the asphalt of a City street is not allowed. Ponding areas are not identified.

10. Nuisance waters must be contained on-site.

11. The street grades for Roma Avenue may be designed by the City. However, the project number should be shown on the plan to insure interfacing with the project site.

12. Emergency spillways for the ponds adjacent to City right-of-way must be directed under the sidewalks or through the drivepads. Details and hydraulics should be provided.

13. Discharge pipes to City right-of-way require an approved "Drainage Facilities Within City Right-of-Way" document to be attached to the building permit sets prior to Hydrology sign-off.

14. Swale characteristics and details should be provided.

Should you have any questions or comments, please call this office at 766-7644.

Cordially,

Billy J. Goolsby

Billy J. Goolsby, C.E.
Desigh Hydrology Section

BJG/bsj

INFORMATION SHEET

PROJECT TITLE Foothills Library TYPE OF SUBMITTAL Drainage & Grading Plan

D-31 New

ZONE ATLAS PAGE NO. K-22 CITY ADDRESS 13300 Lomas NE

LEGAL DESCRIPTION Block 5, Chelwood Park Addition

ENGINEERING FIRM Isaacson & Arfman, P.A. CONTACT Tom Isaacson

ADDRESS 128 Monroe St. NE PHONE 268-8828

OWNER City of Albuquerque CONTACT Allan Clark

ADDRESS 501 Copper NW, 87102 PHONE 766-7882

ARCHITECT Van H. Gilbert, AIA CONTACT Jim Graff

ADDRESS 319 Central NW, Suite 201 PHONE 247-9955

SURVEYOR City of Albuquerque CONTACT LaMonte Urban

ADDRESS 123 Central NE 87102 PHONE 766-5040

CONTRACTOR N/A 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
___ 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)

DATE SUBMITTED: 11/13/84

BY: Thomas O. Isaacson
Thomas O. Isaacson

RECEIVED
NOV 15 1984
HYDROLOGY SECTION

TRANSMITTAL LETTER

AIA DOCUMENT G810

VAN H. GILBERT ARCHITECT, AIA
319 Central Avenue NW, Suite 201
Albuquerque, New Mexico 87102
505 247-9955

PROJECT: Lomas/Tramway Branch Library

ARCHITECT'S PROJECT NO: 402

TO: Mr. Tom Isaacson
Isaacson & Arfman, PA
128 Monroe NE
Albuquerque, NM 87108

DATE: 10/23/84

WE TRANSMIT:
(x) herewith ( ) under separate cover via _____
( ) in accordance with your request _____

FOR YOUR:
( ) approval ( ) distribution to parties ( ) information
( ) review & comment ( ) record
(x) use ( ) _____

THE FOLLOWING:
( ) Drawings ( ) Shop Drawing Prints ( ) Samples
( ) Specifications ( ) Shop Drawing Reproducibles ( ) Product Literature
( ) Change Order ( ) _____

COPIES	DATE	REV. NO.	DESCRIPTION	ACTION CODE
1			Drainage and Ponding notes from Site Analysis Report	

ACTION CODE
A. Action indicated on item transmitted
B. No action required
C. For signature and return to this office
D. For signature and forwarding as noted below under REMARKS
E. See REMARKS below

REMARKS

For your information and records.

RECEIVED
NOV 15 1984
HYDROLOGY SECTION

COPIES TO:

File

Van H. Gilbert AIA

BY:

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THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 MASSACHUSETTS AVENUE, N.W., WASHINGTON, D.C. 20006

ONE PAGE

DRAINAGE AND PONDING

Hydrology

We contacted AMAFCA, who said that to their knowledge there would be no offsite flows to the site, but suggested that we contact Mr. Bill Goolsby at the City Hydrology Department to verify that fact.

February 6, 1984, Meeting with Mr. C. E. (Bill) Goolsby, P.E., City Hydrology Department.

In the meeting with Mr. Goolsby, the following facts were brought out:

1. Based on the study of the maps available, Mr. Goolsby stated that there would be no offsite flows with which to contend.

2. Only what is generated on the site would have to be dealt with, and this would be dealt with by controlled discharge.

3. The discharge flows south on Eastridge from Lomas to Roma and west on Roma diagonally to Chelwood. There is a flooding problem at Chelwood. There is a proposed improvement design for Chelwood which calls for a 36" storm drain to be parallel to the 54" existing storm drain. This has been given a "B Priority" and it will be two to three years before the 36" storm drain would be constructed. Once this new 36" storm drain was hooked into the 54" storm drain, we would be able to send the discharge of drain water to Chelwood without having to provide controlled access. Any ponding areas that we would have could be obliterated at that point in time.

4. The Library site is the furtherest away from the storm drain at Chelwood, and therefore the time of flows would have to be calculated specifically.

5. The water might be drained to the landscaping, and if this was done, then it would minimize any ponding that would be necessary to slow down the flows. This would need to be looked at once the entire site plan was designed.

6. No detention ponds that would hold water would be necessary. The ponding requirements now are such that they must be drained in 24 hours. Usually the drainage takes place in two to three hours.

Conclusion: From the hydrology standpoint, it appears that no major obstacles are presented by the site. There does not seem to be any offsite flows because of the new drainage channel east of Tramway, and we would only have to contend with the water on site, and this would be done in a controlled discharge manner. See Figure 3.

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HYDROLOGY SECTION

VISTAS

The vistas are:

1. Approximately north to south, southeast of the Sandia Mountains (0° to 110°).

Isaacson & Arfman, P.A.

Consulting Engineering Associates

Letter of Transmittal

To Hydrology Section, City of Alb
123 Central Ave NE
Albuquerque, NM 87102

Date 11/13/84

Job No.

Attn:

Reference Foothills Branch Library, Lomas at Tramway Blvd

Gentlemen:

We transmit to you 1 copy(ies) of the following

- ☐ Plats
- ☐ Plans
- ☐ Specifications
- ☐ Report
- ☐ Shop Drawings
- ☐ Submittals
- ☐ Material Specifications
- ☐ Copy of Letter
- ☒ Drainage & Grading Plan
- ☒ Information Sheet, Conference Recap Sheet

This information is transmitted:

- ☐ As per your request
- ☒ For your review & approval
- ☐ For your information
- ☐ For your attention
- ☐ For your signature
- ☐ For your files
- ☐ For your use
- ☐ Please review & return
- ☐ For return to your files
- ☐ Please advise
- ☐
- ☐

Remarks:

RECEIVED NOV 15 1984 HYDROLOGY SECTION

By: Joe Isaacson

Copies To

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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

HYDROLOGY SECTION PROJ. NO. K-22 DATE: 10/8/84

PLANNING DIVISION NO. _____

CONFERENCE RECAP

SUBJECT: Lomas & Tramway Branch Library
Block 5 Chelwood Park Addition

WHO	REPRESENTING
ATTENDANCE: Tom Isaacson	
Billy Goolsby	

FINDINGS: ① Approved Drainage Plan required for Hydrology sign-off.
② Discharge to be determined by analysis of downstream capacity.
③ City approved street grades required for Roma Ave. which abuts the property on the south and is currently unimproved.

* Please provide a copy of recap w/submittal.

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: Billy J. Goolsby SIGNED: Tom Isaacson
TITLE: CE/Hydrology TITLE: Pl.
DATE: 10/8/84 DATE: 10/8/84