HYDROLOGY K14/D7 2 PLANS

K14/D7

2 Plans

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

10-12-82

Bernie -
For your information, here are my "revised" calcs. for the Senior Multi-Service Center. If you have any questions, do not hesitate to call.
Jeff

4. Basin 4 (discharged into Barelas Road)

A = 6,750 sf

% impervious = $\frac{6750-700}{6750}$ = 90

$C_{90\%}$ = 0.75

t_c = 10 min (minimum)

i = 4.65 in/hr

Q_{100} = CiA = 0.6 cfs

V_{100} = CP_6A = 930 cf

1. Basin 1 (contained on site)

Area = 27070 sf

% impervious = $\frac{27070-11910}{27070}$ = 56

$C_{56\%}$ = 0.46

t_c = 10 min (minimum)

i = 4.65 in/hr

Q_{100} = CiA = 1.35 cfs

V_{100} = CP_6A = 2290 cf

Ponding Area (maximum water surface elevation 4446.0)

Area elev. 46.0 = 3500 sf

Area elev. 44.5 = 1270 sf

Volume = $\frac{3500+1270}{2}$ (1.5) = 3577 cf

Volume below elev. = 1270(1)1/3 = 425 cf

Where 1/3 = the ratio of voids in rock

Total available ponding volume = ~~2290~~ 3577

Volume required for 100 year, 6 hour storm = 2290 cf + 930 = 3210 cf

2. Basin 2 (discharged to 7th Street)

Area = 8900 sf

% impervious = $\frac{8900-1085}{8900}$ = 88

$C_{88\%}$ = 0.74

i = 4.65 in/hr

Q_{100} = CiA = 0.7 cfs

V_{100} = CP_6A = 12.0 cf

3. No change from Existing Condition:

Q_{100} = 2.3 cfs

V_{100} = 3,840 cf

4. No change from Existing Condition:

Q_{100} = 0.6 cfs

V_{100} = 930 cf

RECEIVED
OCT 14 1982
CITY ENGINEER

Revised 10-12-82 JGM

3577 > 3210 ∴ OK

PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
THOMAS T. MANN, JR.
3792
LAND SURVEYOR

NTER OF ALBUQUERQUE

PLAN

FILE NO. Job # 2058

SHEET 1 OF 1

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz
Mayor

UTILITY DEVELOPMENT DIVISION
HYDROLOGY SECTION
(505) 768-2650

August 5, 1987

Jeff Mortensen
Tom Mann & Associates, Inc.
811 Dallas, NE
Albuquerque, New Mexico 87110

RE: REVISED DRAINAGE PLAN FOR AN ADDITION TO BARELAS SENIOR CENTER (K-14/D7) ENGINEER'S STAMP DATED JULY 28, 1987

Dear Jeff:

Based on the information provided on your resubmittal of July 28, 1987, revisions as indicated are acceptable for Building Permit approval.

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

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

20584

DRAINAGE INFORMATION SHE

PROJECT TITLE: Barelas Senior Center ZONE ATLAS/DRNG. FILE #: K14-D7

LEGAL DESCRIPTION: Barelas Senior Center

CITY ADDRESS: 7th Street S.W.

ENGINEERING FIRM: Tom Mann & Associates CONTACT: J. G. Mortensen

ADDRESS: 811 Dallas N.E. PHONE: 265-5611

OWNER: City of Albuquerque CONTACT: Joe Della Longa

ADDRESS: PHONE:

ARCHITECT: Pugh & Associates CONTACT: Toby Pugh

ADDRESS: 301 Gold S.E. PHONE: 242-7572

SURVEYOR: City of Albuquerque CONTACT: LaMonte Urban

ADDRESS: PHONE:

CONTRACTOR: n/a CONTACT:

ADDRESS: PHONE:

RECEIVED
JUL 28 1987
HYDROLOGY SECTION

PRE-DESIGN MEETING:

X YES

___ NO

X COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ___

EPC NO. ___

PROJ. NO. K14-D7

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

X OTHER Revisions (SPECIFY)

DATE SUBMITTED: July 28, 1987

BY: J. G. Mortensen

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz
Mayor

UTILITY DEVELOPMENT DIVISION
HYDROLOGY SECTION
(505) 768-2650

June 9, 1987

Jeff Mortensen
Tom Mann & Associates, Inc.
811 Dallas, NE
Albuquerque, New Mexico 87110

RE: DRAINAGE PLAN FOR AN ADDITION TO BARELAS SENIOR CENTER
(K-14/D7) ENGINEER'S STAMP DATED JUNE 4, 1987

Dear Jeff :

Based on the information provided on your submittal of June 5, 1987, the above referenced plan is approved for Building Permit.

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

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

20584

DRAINAGE INFORMATION SHE

PROJECT TITLE: Barelas Senior Center ZONE ATLAS/DRNG. FILE #: K14-D7

LEGAL DESCRIPTION: Barelas Senior Center

CITY ADDRESS: 7th Street S.W.

ENGINEERING FIRM: Tom Mann & Associates CONTACT: J. G. Mortensen

ADDRESS: 811 Dallas N.E. PHONE: 265-5611

OWNER: City of Albuquerque CONTACT: Joe Della Longa

ADDRESS: PHONE:

ARCHITECT: Pugh & Associates CONTACT: Toby Pugh

ADDRESS: 301 Gold S.E. PHONE: 242-7572

SURVEYOR: City of Albuquerque CONTACT: LaMonte Urban

ADDRESS: PHONE:

CONTRACTOR: n/a CONTACT:

ADDRESS: PHONE:

RECEIVED
JUN 05 1987
HYDROLOGY SECTION

PRE-DESIGN MEETING:

x YES

___ NO

x COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ___

EPC NO. ___

PROJ. NO. K14-D7

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: June 5, 1987

BY: J. G. Mortensen

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz
Mayor

UTILITY DEVELOPMENT DIVISION
HYDROLOGY SECTION
(505) 768-2650

March 23, 1987

Jeff Mortensen
Tom Mann & Associates, Inc.
811 Dallas, NE
Albuquerque, New Mexico 87110

RE: CONCEPTUAL DRAINAGE PLAN FOR AN ADDITION TO BARELAS SENIOR CENTER (K-14/D7) ENGINEER'S STAMP DATED MARCH 13, 1987

Dear Jeff:

Based on the information provided on your submittal of March 16, 1987, the above referenced plan is approved for Site Development.

Please be advised that prior to Building Permit approval, you will need to show on the plan drawing the one-hundred year pond elevation, and all the notations that go along with the S.O. #19 format.

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

DRAINAGE INFORMATION SH 20583

PROJECT TITLE: BARELAS SENIOR CENTER ZONE ATLAS/DRNG. FILE #: K14/D7

LEGAL DESCRIPTION: BARELAS SENIOR CENTER

CITY ADDRESS: 7TH ST. SW

ENGINEERING FIRM: TOM MANN & ASSOC CONTACT: J.G. MORTENSEN

ADDRESS: 811 DALLAS NE PHONE: 265-5611

OWNER: CITY OF ALBUQ. CONTACT: JOE DELLA LONGA

ADDRESS: PHONE:

ARCHITECT: PUGH & ASSOC CONTACT: TOBY PUGH

ADDRESS: 301 GOLD SE PHONE: 242-7572

SURVEYOR: CITY OF ALBUQ. CONTACT: LAMONTE HEGAN

ADDRESS: PHONE:

CONTRACTOR: N/A CONTACT:

ADDRESS: PHONE:

RECEIVED MAR 16 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

___ DRAINAGE PLAN

X CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

X 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: 03-13-87

BY: J.G. MORTENSEN

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

August 18, 1982

Tom Mann & Associates, Inc.
C/O Jeff Mortensen
811 Dallas NE
Albuquerque, New Mexico 87110

Re: Senior Multi-Service Center of Albuquerque
File No. K14-D7

Dear Mr. Mortensen:

The approval of the referenced site is contingent on the acceptance by Mr. Bill McNamara, Subdivision/Turnkey Inspector, Engineering Div., for the proposed discharge pipe connections to the North Barelas Elderly Housing to the east. Plans have been routed to Mr. McNamara for his review and approval.

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

Sincerely,

Fred J. Aguirre, PE
Civil Engineer/Hydrology

FJA/el

cc: Drainage File ✓
Reading File

Tom Mann Associates, Inc.
Engineers
811 DALLAS, N.E. • ALBUQUERQUE • NEW MEXICO • 87110 • 505-265-5611

20581
August 10, 1982

Mr. Fred J. Aguirre, P.E.
Civil Engineer/Hydrology
City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

K-14-D7

Re: Senior Multi-Service Center
of Albuquerque Drainage Plan

Dear Fred:

Transmitted herewith for your review is the revised drainage plan for the subject project. As you will note, the existing 4-inch drain pipes have been daylighted to the proposed swale in Barelas Road and the pond has been drained via a 6-inch pipe and stand pipe to the existing 15-inch storm sewer in Barelas Road. Additional calculations, plus a connection detail, have been added to complete the revision.

Also returned at this time is the file which you loaned me concerning the North Barelas Elderly Housing Project. This has been extremely helpful and your cooperation is greatly appreciated.

If you have any further questions or comments concerning this project, do not hesitate to call.

Sincerely,

TOM MANN & ASSOCIATES, INC.

Jeffrey G. Mortensen
Project Engineer

JGM:bb
Encs.
xc: Pat McClernon

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DRAINAGE REPORT INFORMATION SHEET

PROJECT TITLE Senior Multi-Service Center of Albuquerque

ZONE ATLAS PAGE NO. K-14 CITY ADDRESS 714 7TH ST. ~~NW~~ SW

LEGAL ADDRESS Tr. 98A-B-C Replatted as Tr A Senior Citizens Multi-Service Center

ENGINEERING FIRM Tom Mann & Assoc. CONTACT Steve Schroll

ADDRESS 811 Dallas NE PHONE 265-5611

OWNER City of Albuquerque CONTACT Rob Strell

ADDRESS ? PHONE ?

ARCHITECT ~~/SURVEYOR~~ Dyer/McClernon CONTACT Pat McClernon

ADDRESS 1401 5TH ST NW PHONE 242-5219

DATE SUBMITTED 7/22/82

BY Jeffrey G. Mott

MUNICIPAL DEVELOPMENT DEPARTMENT

Richard S. Heller, P.E., City Engineer ENGINEERING DIVISION Telephone (505) 766-7467

Speed Letter. 2058

To Fred Aguilar

From Jeff Mortensen

Subject Senior Multi-Service Center of Albuq.

MESSAGE

Transmitted herewith are 2 copies of the subject project for review and comment. If you have any questions or comments, please feel free to call either Steve Schroll or myself.

Date 7/22/82 Signed Jeffrey G. Mortensen

REPLY

K-14-D7

Date Signed

Wilson Jones Company

RECIPIENT—RETAIN WHITE COPY, RETURN PINK COPY

November 24, 1976

K14-D7

Mr. Chris Weiss
C.C.I.C. Inc.
3500 Indian School Rd. N.E.
Albuquerque, New Mexico 87106

RE: SENIOR MULTI-SERVICE
CENTER DRAINAGE PLAN

Dear Mr. Weiss:

The subject drainage plan is acceptable to me and I will approve building plans which implements this concept.

Very truly yours,

Kleston H. Laws
Asst. City Engineer-Hydrology

KHL/fs

cc: John Robert

November 18, 1976

RECEIVED

NOV 1 9 1976

CITY ENGINEERS

City of Albuquerque
City Engineer's Office
P.O. Box 1293
Albuquerque, NM 87103

ATTENTION: Mr. Kleston Laws

REFERENCE: Senior Multi-Service Center Drainage Plan

Dear Mr. Laws:

We are transmitting two copies of this drainage plan to you prior to the submittal of the architectural plans. The architect has reviewed this concept and will design the roof slopes and grading plan to conform.

We will be happy to discuss any questions you might have prior to final approval.

Sincerely,

Christopher L. Weiss, for

CHAMBERS, CAMPBELL, ISAACSON & CHAPLIN, INC.

CLW:dd
Encl.

Chambers, Campbell, Isaacson, Chaplin, Inc.
architects engineers planners 3500 indian school road ne albuquerque new mexico 87106 505 266 5521

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

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

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NO.: K14 DATE: 3-3-87
PLANNING DIVISION NOS: EPC: _____ DRB: _____
SUBJECT: Senior Multi-Service Center
STREET ADDRESS (IF KNOWN): 714 7th SW corner
SUBDIVISION NAME: 7th & Stover

APPROVAL REQUESTED:

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

ATTENDANCE:	WHO	REPRESENTING
	Jeff Martinez	
	Carlos A Montoya	

FINDINGS:

1. Conceptual drainage plan for Site Plan & Final Drainage plan for Building Permit
2. Need to follow approved drainage plan dated 8-10-82
3. Need control release from Basin 1
4. If outlet pipe does not exist
   (A) SD #19 for tie-in to back of catch basin
   (B) Work order for tie-in to Manhole
5. Basin 1 needs to drain to detention pond

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: Carlos A Montoya SIGNED: Jeffrey G [illegible]
TITLE: _____ TITLE: _____
DATE: 3-3-87 DATE: 03-03-87

NOTE PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL