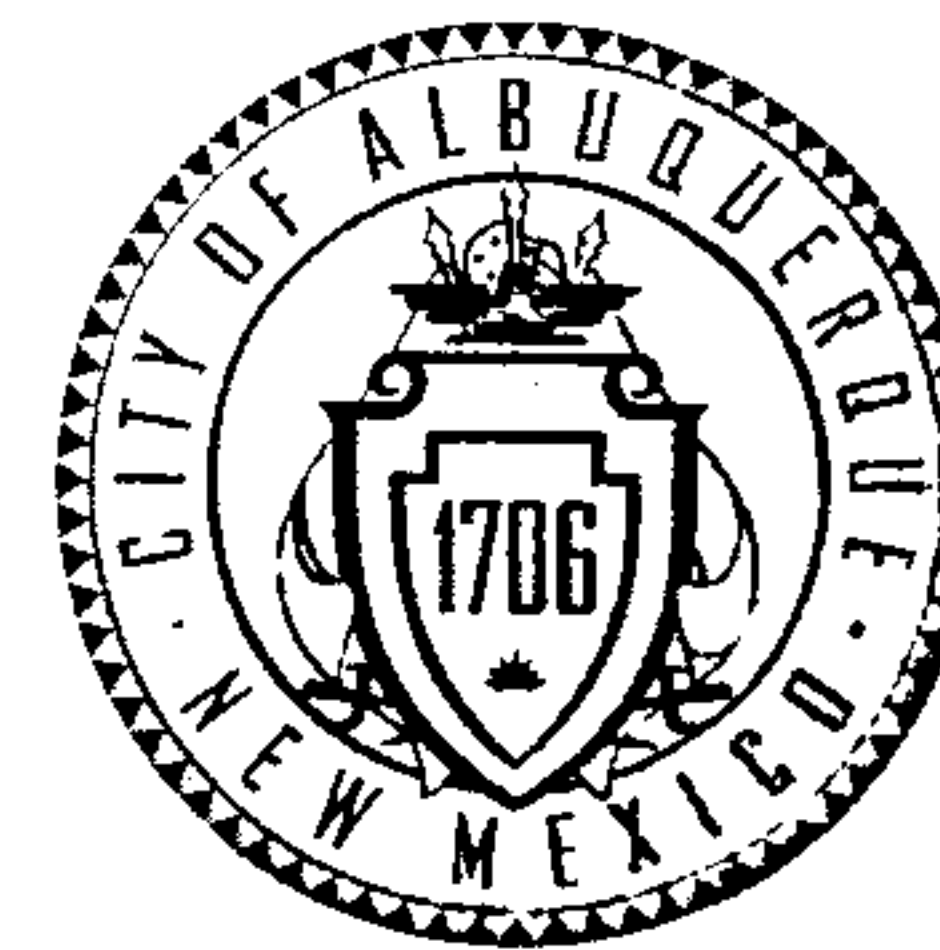


CITY OF ALBUQUERQUE



March 15, 2011

Fred C. Arfman, P.E.
Isaacson & Arfman, P.A.
128 Monroe St. NE
Albuquerque, NM 87108

Re: APD Forensic Lab Modular Bldg. Addition
Grading and Drainage Plan
Engineer's Stamp dated 3-16-11 (F15/D019)

Dear Mr. Arfman,

Based upon the information provided in your submittal received 3-16-11, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Also, prior to Certificate of Occupancy release, Engineer Certification of the plan referenced above per the DPM checklist will be required.

If you have any questions, you can contact me at 924-3695.

Sincerely,

Curtis A. Cherne, P.E.
Senior Engineering, Planning Dept.
Development and Building Services

C: file

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(Rev. 12/05)

PROJECT TITLE: APD Forensic Lab Modular Bldg. Add'n ZONE MAP/DRG. FILE F-15/10019
DRB#: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: A portion of TRACT A, MEL SANCHEZ LATH AND PLASTER COMPANY, ALBUQ, NM
CITY ADDRESS: _____

ENGINEERING FIRM: ISSACSON & ARFMAN, PA CONTACT: Fred C. Arfman, PE
ADDRESS: 128 MONROE NE PHONE: 268-8828
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87108

OWNER: APD CONTACT: _____
ADDRESS: CITY OF ALBUQUERQUE PHONE: _____
CITY, STATE: Albuquerque, NM ZIP CODE: _____

ARCHITECT: N/A (PORTABLE BUILDING: TRANSFERRED) CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

SURVEYING FIRM: _____ LICENSED SURVEYOR: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CONTRACTOR: PARKLINE/WEST INC. CONTACT: BRANDON HARRISON
ADDRESS: P.O. Box 93457 PHONE: (505) 243-3713
CITY, STATE: ABQ. NM 87199-3457 ZIP CODE: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
☒ DRAINAGE PLAN 1st SUBMITTAL
☐ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERT (HYDROLOGY)
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT
☐ ENGINEER/ARCHITECT CERT (TCL)
☐ ENGINEER/ARCHITECT CERT (DRB S.P.)
☐ ENGINEER/ARCHITECT CERT (AA)
☐ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SIA/FINANCIAL GUARANTEE RELEASE
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D APPROVAL
☐ S. DEV. FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☒ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY (PERM)
☐ CERTIFICATE OF OCCUPANCY (TEMP)
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☐ OTHER (SPECIFY) _____

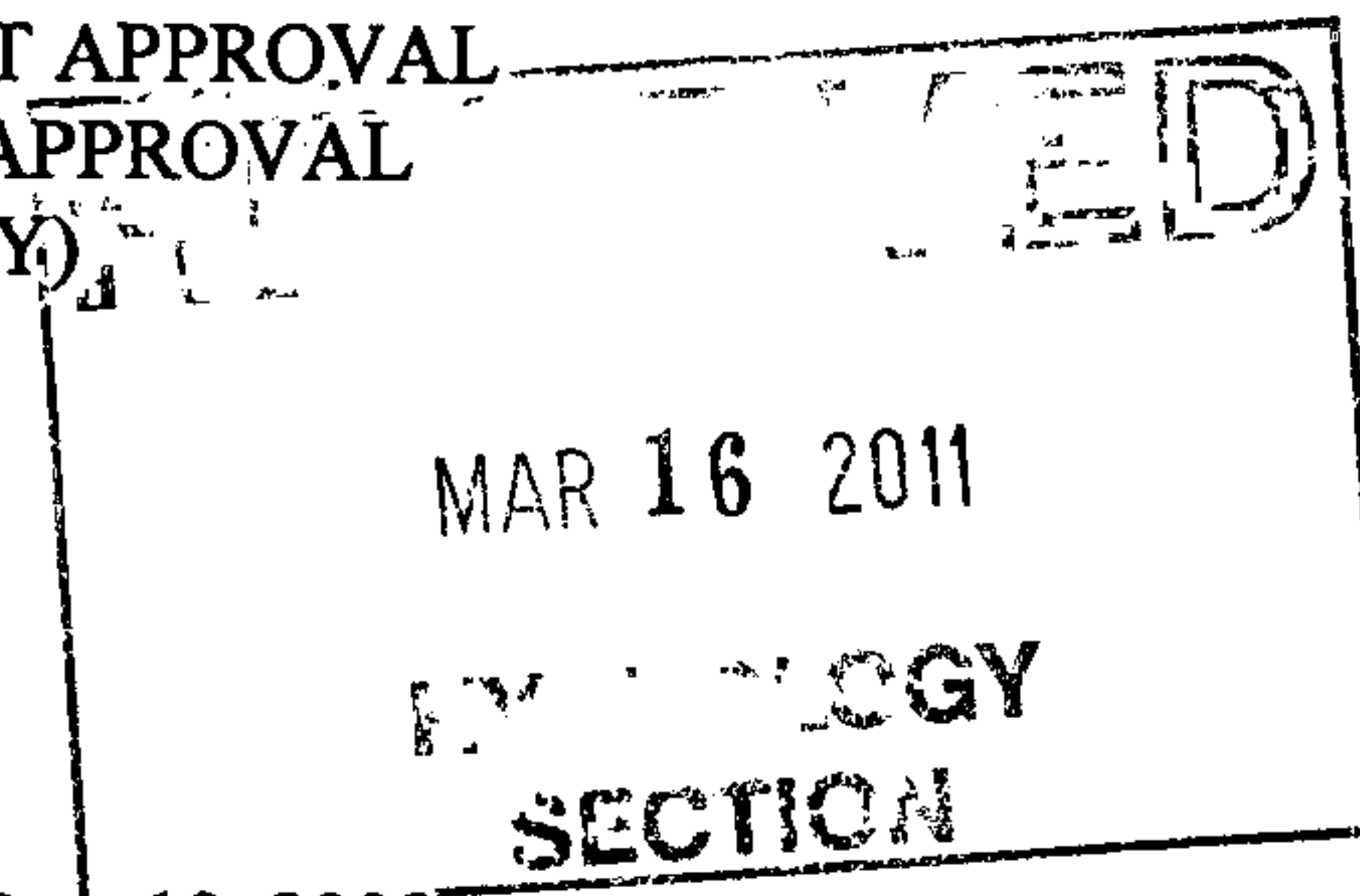
WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
☐ NO
☐ COPY PROVIDED

SUBMITTED BY: ISAACSON & ARFMAN: Fred Arfman DATE: Dec. 18, 2008

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope to the proposed development define the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 25, 2002

Scott McGee, P.E.
Isaacson & Arfman
128 Monroe St NE
Albuquerque, New Mexico 87108

RE: APD CRIME LAB (FORENSIC SERVICES CTR.) (F-15/D19)
(5408 2nd St NW)
ENGINEERS CERTIFICATION FOR CERTIFICATE OF OCCUPANCY
ENGINEERS STAMP DATED 6/15/1999
ENGINEERS CERTIFICATION DATED 3/21/2002

Dear Mr. McGee:

Based upon the information provided in your Engineers Certification submittal dated 3/22/2002, the above referenced site is approved for a Permanent Certificate of Occupancy.

If I can be of further assistance, please contact me at 924-3981.

Sincerely,

Teresa A. Martin
Hydrology Plan Checker
Public Works Department

BM

C: Vickie Chavez, COA
✓ drainage file
approval file



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 16, 1999

Scott McGee, P.E.
Isaacson & Arfman
128 Monroe NE
Albuquerque, NM 87108

RE: APD CRIME LAB (F15-D19). GRADING AND DRAINAGE PLAN FOR BUILDING PERMIT AND WORK ORDER APPROVALS. ENGINEER'S STAMP DATED JUNE 15, 1999.

Dear Mr. McGee:

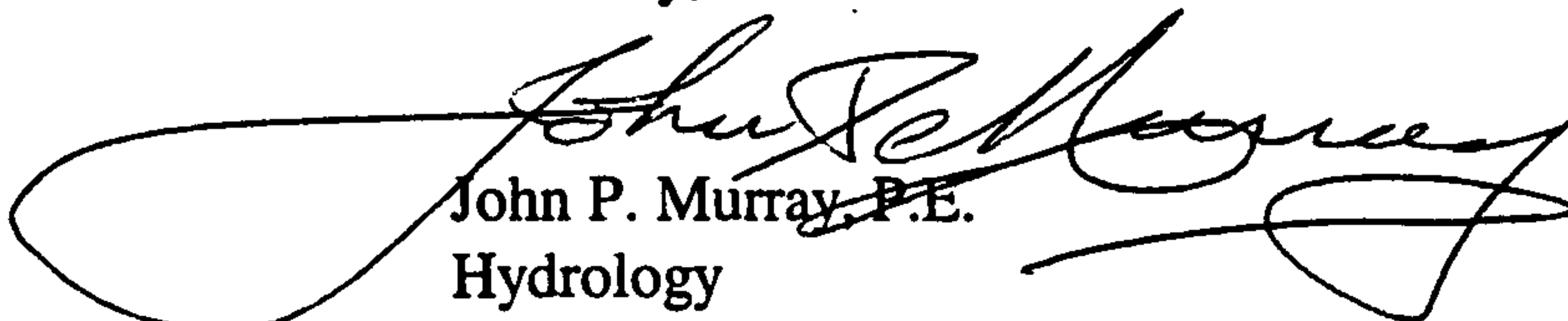
Based on the information provided on your June 15, 1999 submittal, the above referenced project is approved for Building Permit and Work Order. See also prior approval letter dated December 1, 1998. A DRC - Preliminary Review - was held on July 12, 1999.

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

Prior to Certificate of Occupancy approval, an Engineer's Certification per the DPM will be required.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,


John P. Murray, P.E.
Hydrology

✓ c: File



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 1, 1998

Scott McGee, P.E.

Isaacson & Arfman
128 Monroe NE
Albuquerque, NM 87108

RE: APD CRIME LAB (F15-D19). GRADING AND DRAINAGE PLAN FOR BUILDING PERMIT APPROVAL. ENGINEER'S STAMP DATED NOVEMBER 5, 1998.

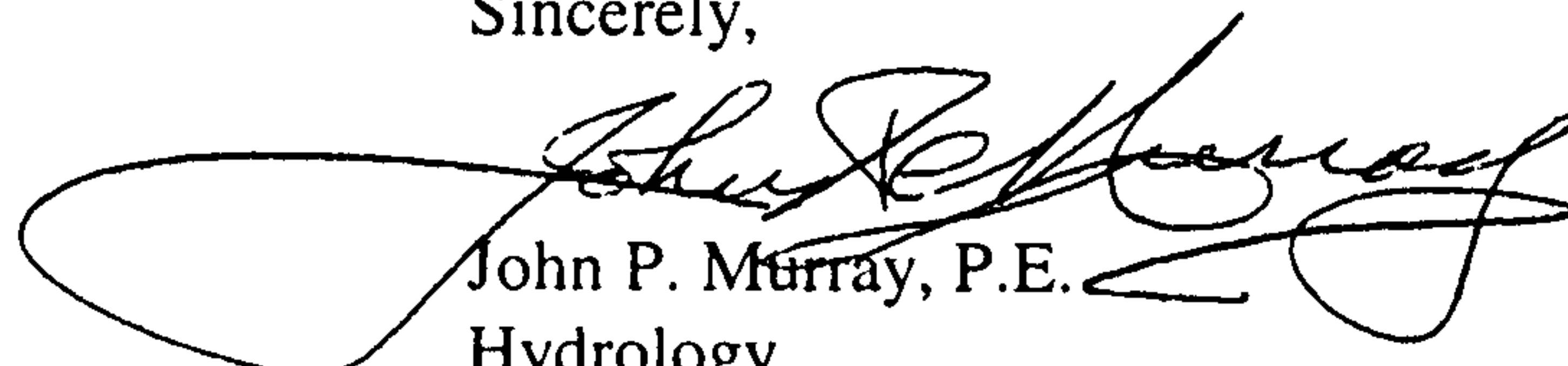
Dear Mr. McGee:

Based on the information provided on your November 10, 1998 submittal, the above referenced project is approved for Building Permit. This plan reflects minor changes in grading. Reference C.O.A. approval letters dated March 24, 1998 (Engineer's Stamp dated 3/16/98) and October 5, 1998 (Engineer's Stamp dated 8/6/98).

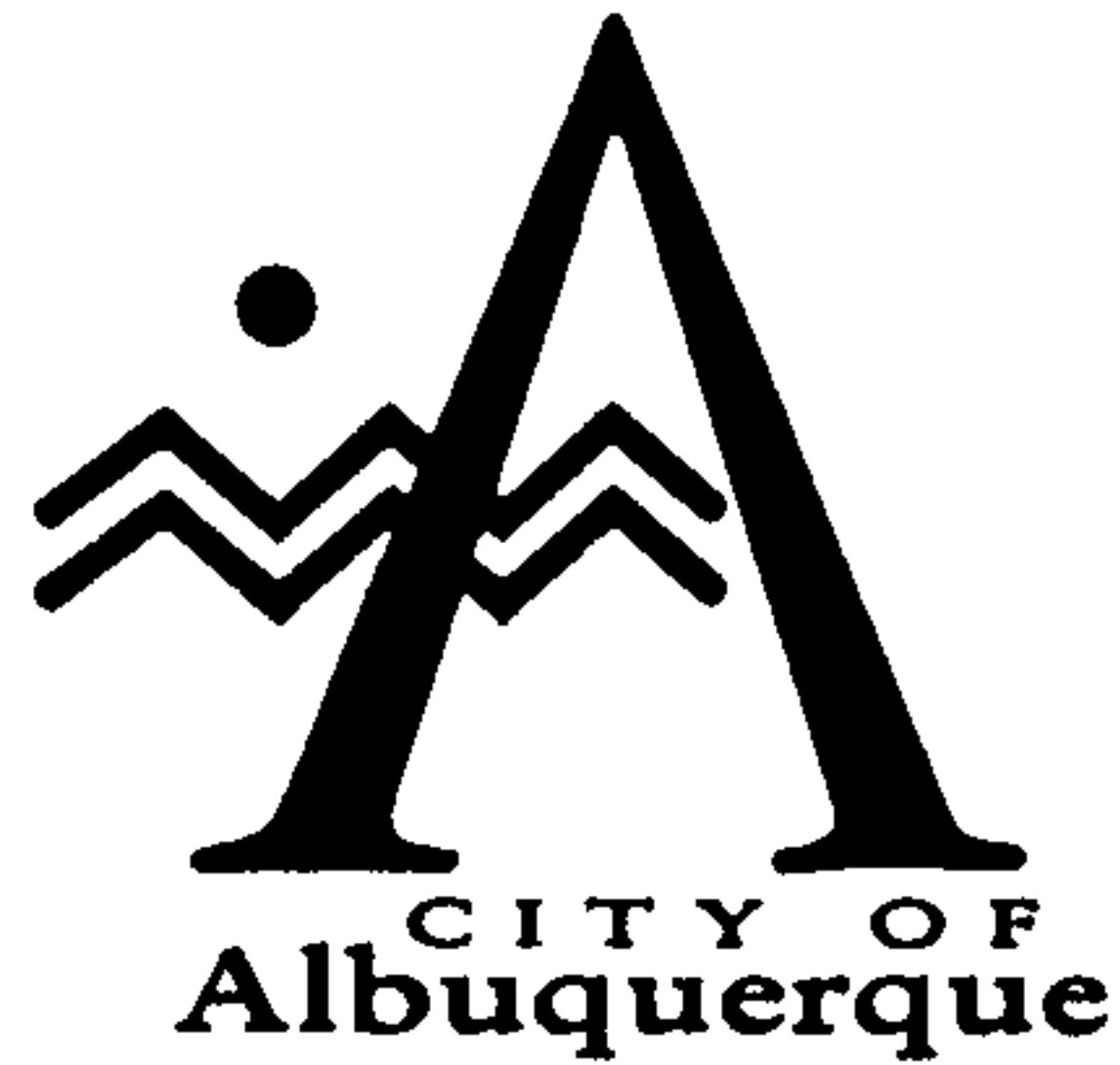
Prior to Certificate of Occupancy approval, an Engineer's Certification per the DPM will be required.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,


John P. Murray, P.E.
Hydrology

c: ☒ Andrew Garcia
☒ File



October 5, 1998

Scott McGee, P.E.
Isaacson & Arfman
128 Monroe NE
Albuquerque, NM 87108

**RE: APD CRIME LAB (F15-D19). GRADING AND DRAINAGE PLAN FOR
GRADING/PAVING PERMIT APPROVAL. ENGINEER'S STAMP DATED
AUGUST 6, 1998.**

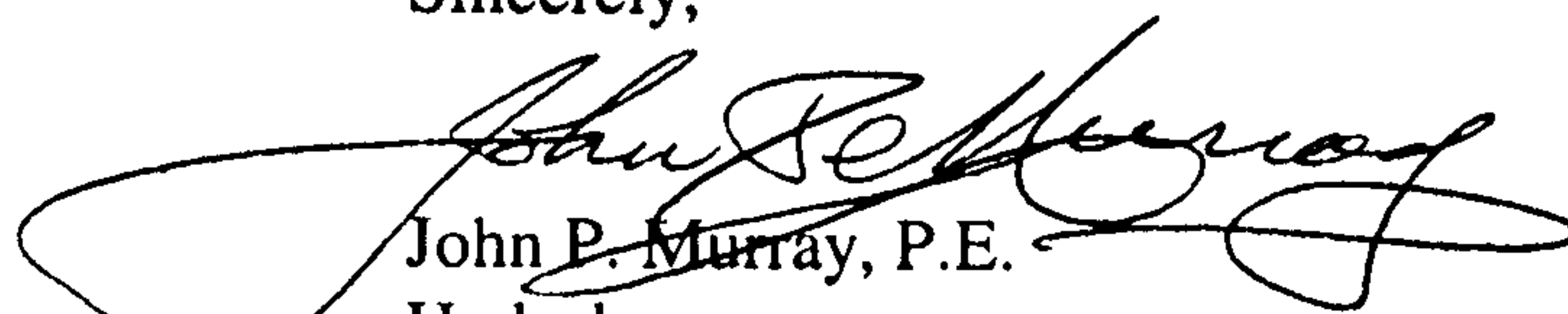
Dear Mr. McGee:

Based on the information provided on your September 11, 1998 submittal, the above referenced project is approved for Grading/Paving Permit.

Prior to Certificate of Occupancy approval, an Engineer's Certification per the DPM will be required.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,


John P. Murray, P.E.
Hydrology

c:  Andrew Garcia
File

Good for You, Albuquerque!





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 18, 1994

Larry Read
Chavez-Grievess Engineering
5639 Jefferson St. NE
Albuquerque, NM 87109

RE: REVISED ENGINEER CERTIFICATION FOR A.P.D. TRAINING ACADEMY PHASE II
(F15-D19) CERTIFICATION STATEMENT REVISION DATED 4/11/94.

Dear Mr. Read:

Based on the information provided on your April 13, 1994 resubmittal, the
above referenced site is acceptable for Engineer Certification.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE
Engineering Associate

BJM/d1/WPHYD/7349

c: Andrew Garcia
File



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 7, 1994

Larry D. Read
Chavez-Grieves Engineering
5639 Jefferson St. NE
Albuquerque, NM 87109

RE: ENGINEER CERTIFICATION FOR A.P.D. TRAINING ACADEMY PHASE II
(F15-D19) CERTIFICATION STATEMENT DATED 3/31/94.

Dear Mr. Read:

Based on the information provided on your March 31, 1994 submittal, I am unable to continue my review until the orifice plate matter has been resolved. Keep in mind that the contractor is working on a 30 day temporary, and as soon as this issue is resolved, he will be granted a permanent Certificate of Occupancy. Also, I will need a copy of the letter of acceptance for Work Order #4223.90.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE
Engineering Associate

BJM/d1/WPHYD/7349

c: Andrew Garcia
Peter Chang
File

$$\begin{array}{r} 65 \\ 65 \\ \hline 120 \end{array}$$

$$\begin{array}{r} 184.90 \\ 120.00 \\ \hline 64.90 \end{array}$$

$$\begin{array}{r} 84.95 \\ 99.95 \\ \hline 184.90 \end{array}$$



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 25, 1992

Victor Chavez
Chavez-Grieves Engineering
4600-C Montgomery Blvd. Suite # 101
Albuquerque, NM 87109

RE: REVISED DRAINAGE PLAN FOR THE A.P.D. TRAINING ACADEMY PHASE II
(F15-D19) REVISION DATED 11/9/92.

Dear Mr. Chavez:

Based on the information provided on your November 10, 1992 resubmittal, the above referenced site is approved for Building Permit.

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

Also, prior to Certificate of Occupancy release, Engineer Certification per the D.P.M. guidelines will be required. A copy of the letter of acceptance for Work Order 4223.90 must also be submitted with the Certification.

It has been brought to our attention that a ponding problem exists on Second Street along the flowline of the curb and gutter which is causing problems.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE
Engineering Assistant

BJM/d1/WPHYD/7349

xc: Alan Martinez
(File)

PUBLIC WORKS DEPARTMENT



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 25, 1992

Victor Chavez
Chavez-Grieves Engineering
4600-C Montgomery Blvd. Suite # 101
Albuquerque, NM 87109

RE: REVISED DRAINAGE PLAN FOR THE A.P.D. TRAINING ACADEMY PHASE II
(F15-D19) REVISION DATED 11/9/92.

Dear Mr. Chavez:

Based on the information provided on your November 10, 1992 resubmittal, the above referenced site is approved for Building Permit.

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

Also, prior to Certificate of Occupancy release, Engineer Certification per the D.P.M. guidelines will be required. A copy of the letter of acceptance for Work Order 4223.90 must also be submitted with the Certification.

It has been brought to our attention that a ponding problem exists on Second Street along the flowline of the curb and gutter which is causing problems.

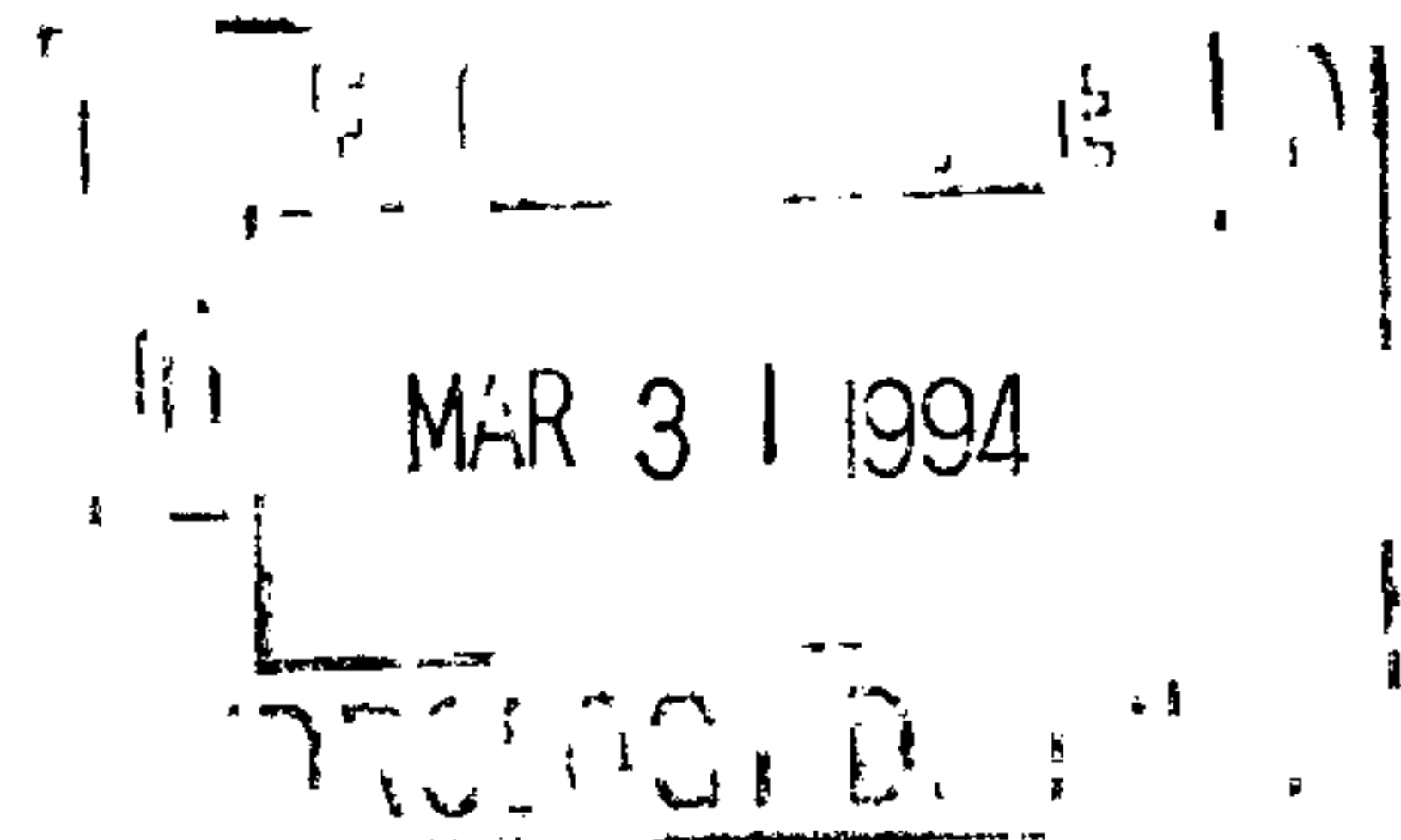
If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE
Engineering Assistant

BJM/d1/WPHYD/7349

xc: Alan Martinez
File



PUBLIC WORKS DEPARTMENT

Chavez-Grievess Consulting Engineers, Inc.
 APD Fourth Area Command
 Hydraulic Grade Line Calculations
 By: Joe Kelley
 Date: April 12, 1994

Station	Structure	Pipe Diameter (inches)	Q Flow (cfs)	Pipe Area (s.f.)	Velocity (fps)	K Factor	Friction Slope Sf	Pipe Length (feet)	Pipe Curve (degrees)	Bend Angle (degrees)	Junction Angle (degrees)
1+00	confluence	18	3.5000	1.7671	1.9806	105.0430	0.0011	100.0000	0.0000		
2+00	10" orifice m.h.	12	3.5000	0.7854	4.4563	35.6279	0.0097	145.0000	0.0000		
3+45	double "D" inlet	12	3.2300	0.7854	4.1126	35.6279	0.0082	150.0000	0.0000		
4+95	4' dia. m.h.	12	2.6900	0.7854	3.4250	35.6279	0.0057	74.0000	0.0000	90.0000	90.0000
5+69	single "D" inlet	12	2.4200	0.7854	3.0812	35.6279	0.0046	140.0000	0.0000	90.0000	0.0000
7+09	single "D" inlet									90.0000	0.0000

Manning's N = 0.013

Friction Loss Hf	Curve Loss Hc	Junction Loss Hj	Manhole Loss Hmh	Transition Loss Ht	Bend Loss Hb	Total Losses (feet)	Hydraulic Grade Line (downstream)	Hydraulic Grade Line (upstream)	Pipe Invert	Softfit Elevation	Ground Surface Elevation	Velocity Head Hv
0.1110	0.0000					0.0000		70.26	68.75	70.28	70.26	0.06
						0.1110						
						0.0000	70.37	70.37	68.85	69.86	73.00	
1.3993	0.0000					1.3993						0.31
			0.0143		0.0000	0.0143	71.77	71.78	69.00	70.00	73.10	
1.2329	0.0000					1.2329						0.26
		0.0871	0.0111		0.0445	0.1426	73.02	73.16	69.15	70.15	73.30	
0.4218	0.0000					0.4218						0.18
			0.0082		0.0330	0.0412	73.58	73.62	69.22	70.22	73.60	
0.6459	0.0000					0.6459	74.27	74.27	69.22	70.22	73.60	0.15

Energy Grade Line (downstream)	Energy Grade Line (upstream)	Junction (3) Diameter (inches)	Junction (3) Area (s.f.)	Junction (3) Vel. Head (feet)	Comments
	70.32				
	70.68				Discontinuous HGL at office manhole.
72.03	72.05				
73.20	73.34	12	0.7854	0.0073	
73.73	73.77				
					Input Phase II runoff.



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 20, 1991

Jeff Mortensen, P.E.
Jeff Mortensen & Associates, Inc.
6010-B Midway Park Boulevard, NE
Albuquerque, New Mexico 87109

RE: ENGINEER'S CERTIFICATION FOR FOURTH AREA COMMAND, PHASE I
(F-15/D19) CERTIFICATION STATEMENT NOVEMBER 12, 1991


Dear Mr. Mortensen:

Based on the information provided on your submittal of November 12, 1991,
Engineer's Certification for the referenced site is acceptable.

Please be advised that any further development on future phases will require
separate drainage plans for review.

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

Cordially,

for 
Bernie J. Montoya, P.E.
Engineering Assistant

xc: Alan Martinez

BJM/bsj
(WP+1843)

5412 2nd 5 NW

PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E.
Assistant Director Public Works

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER

FILE COPY



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 16, 1990

Jeff Mortensen, P.E.
Jeff Mortensen & Associates, Inc.
6010-B Midway Park Boulevard, NE
Albuquerque, New Mexico 87109

RE: REVISED DRAINAGE PLAN FOR A.P.D. FOURTH AREA COMMAND, PHASE I
(F-15/D19) REVISION DATED OCTOBER, 1990

Dear Mr. Mortensen:

Based on the information provided on your resubmittal of October 5, 1990, the above referenced plan is approved for Building Permit and S.O. #19.

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

Also, a separate permit is required for construction within City right-of-way. A copy of this approval letter must be on hand when applying for the excavation permit.

Prior to Certificate of Occupancy release, Engineer's Certification per the D.P.M. Checklist will be required.

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

Cordially,

Bernie Montoya
for Fred J. Aguirre, P.E.
Hydrologist

xc: Darlene Saavedra

BJM:FJA/bsj
(WP+1843)

PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E.
Assistant Director Public Works

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

September 14, 1990

Jeff Mortensen, P.E.
Jeff Mortensen & Associates, Inc.
6010-B Midway Park Boulevard, NE
Albuquerque, New Mexico 87109

RE: DRAINAGE PLAN FOR APD FOURTH AREA COMMAND PHASE I
(F-15/D19) ENGINEER'S STAMP DATED AUGUST 31, 1990

Dear Mr. Mortensen:

Based on the information provided on your submittal of September 4, 1990, the above referenced plan is approved for Building Permit and S.O. #19 release.

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

Prior to Certificate of Occupancy release, Engineer's Certification per the DPM will be required. Also, a separate permit is required for construction within the City right-of-way. A copy of this approval letter must be on hand when applying for the excavation permit.

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

Cordially,

Fred J. Aguirre
for Fred J. Aguirre, P.E.
Hydrologist

xc: Darlene Saavedra

BJM:FJA/bsj
(WP+1843)

PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E.
Assistant Director Public Works

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER

FILE COPY



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 29, 1990

Jeff Mortensen, P.E.
Jeff Mortensen & Associates, Inc.
6010-B Midway Park Boulevard, NE
Albuquerque, New Mexico 87109

RE: REVISED CONCEPTUAL GRADING & DRAINAGE PLAN FOR APD
FOURTH AREA COMMAND (F-15/D19) REVISION DATED AUGUST 15, 1990

Dear Mr. Mortensen:

Based on the information provided on your resubmittal of August 15, 1990, revisions as indicated are acceptable for Site Development.

Please be advised that the rest of my concerns listed on my letter to you dated May 9, 1990, are still valid for Building Permit.

Also, the proposed 12" drain line shown on the plan drawing must be coordinated with DRC (within Second Street).

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

Cordially,

for *Fred J. Aguirre*
Fred J. Aguirre, P.E.
Hydrologist

BJM:FJA/bsj
(WP+1843)

PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E.
Assistant Director Public Works

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER