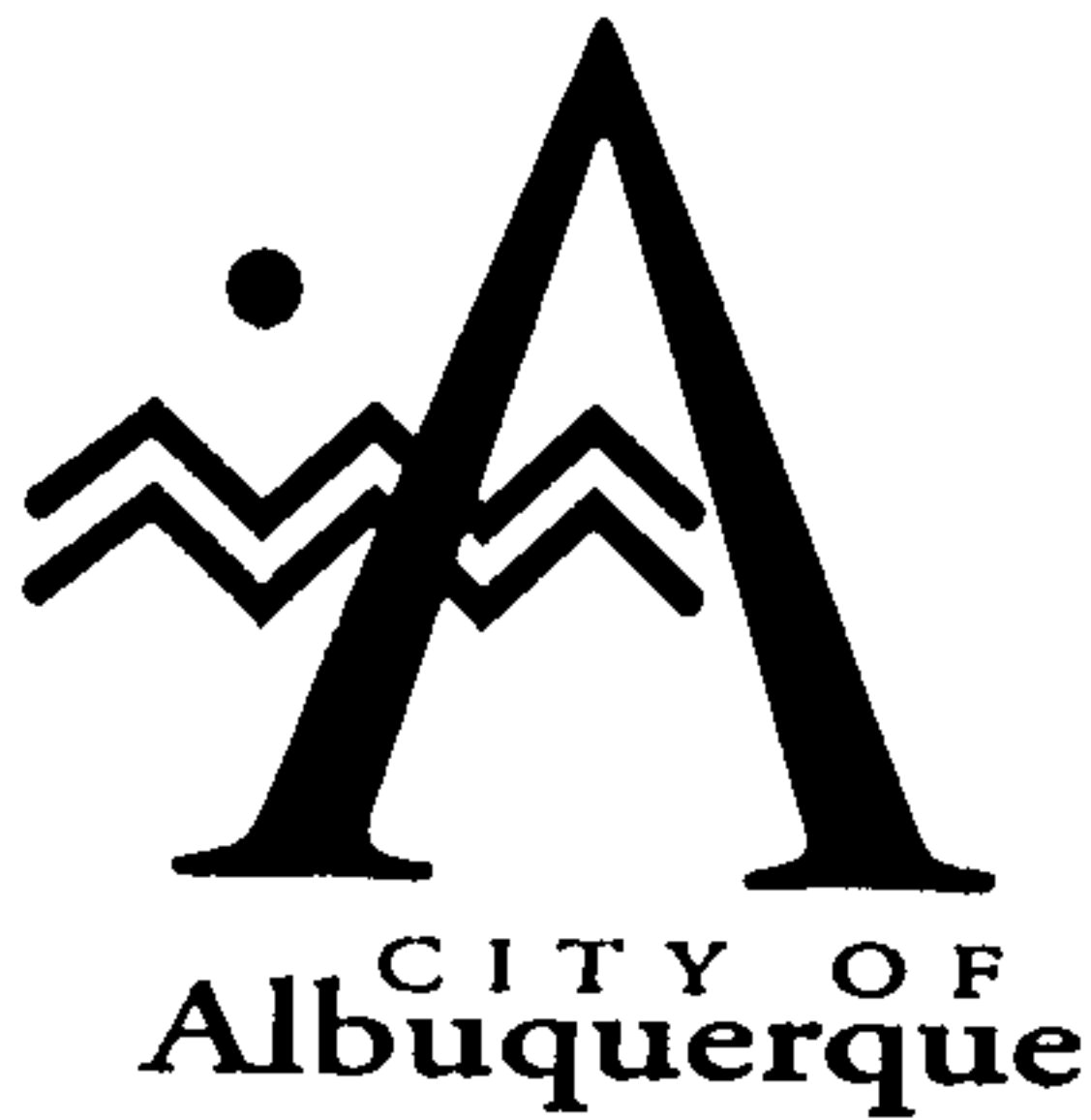




October 3, 1997

Martin J. Chávez, Mayor

Joe Chato, P.E.
Red Mountain Engineers, Inc
P.O. Box 16115
Santa Fe, NM 87506

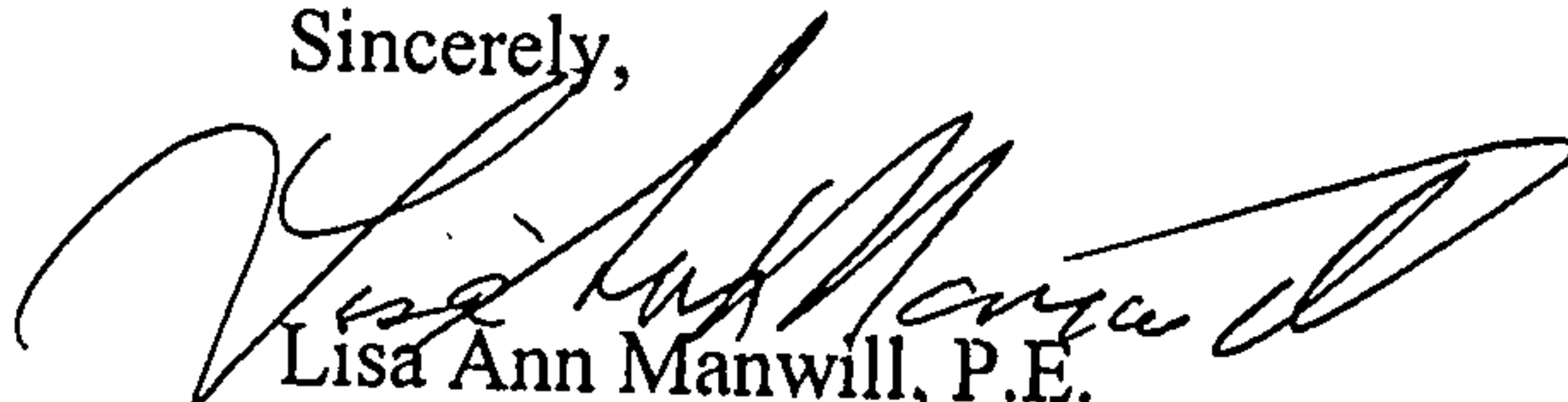
**RE: BARELAS CHILD CARE CENTER (K13-D40). ENGINEER'S CERTIFICATION
FOR CERTIFICATE OF OCCUPANCY APPROVAL. ENGINEER'S
CERTIFICATION DATED SEPTEMBER 15, 1997.**

Dear Mr. Chato:

Based on the information provided on your September 22, 1997 submittal, the above referenced project is approved for Certificate of Occupancy.

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

Sincerely,



Lisa Ann Manwill, P.E.
Hydrology

c: Jonathan Siegel - Siegel Design, 2726 Candelaria NW, Abq, NM 87107
Andrew Garcia

File

Good for You, Albuquerque!



PROJECT TITLE: BARELAS AREA CHILD CARE CENTER ZONE ATLAS/DRNG. FILE #: K-13.2 40

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: _____

CITY ADDRESS: 1440 LEAD S.W.

ENGINEERING FIRM: RED MOUNTAIN ENGINEERS, INC. CONTACT: JOE CHATO

ADDRESS: PO BOX 16115 SANTA FE 87506 PHONE: 473 7373

OWNER: CITY of ALBUQUERQUE CONTACT: DANE CARES

ADDRESS: _____ PHONE: 768 2519

ARCHITECT: SIEGEL DESIGN CONTACT: JONATHAN SIEGEL

ADDRESS: 2726 CANDELARIA NW 87107 PHONE: 344.6746

SURVEYOR: CITY of ALBUQUERQUE CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: PREFERRED BUILDING SYSTEMS, INC. CONTACT: LARRY JONES

ADDRESS: 9100 PAN AMERICAN HWY. E. ALBUQUERQUE 87113 PHONE: 822 0800

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
☐ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☐ GRADING PLAN
☒ EROSION CONTROL PLAN
☒ ENGINEER'S CERTIFICATION
☐ OTHER _____

PRE-DESIGN MEETING:

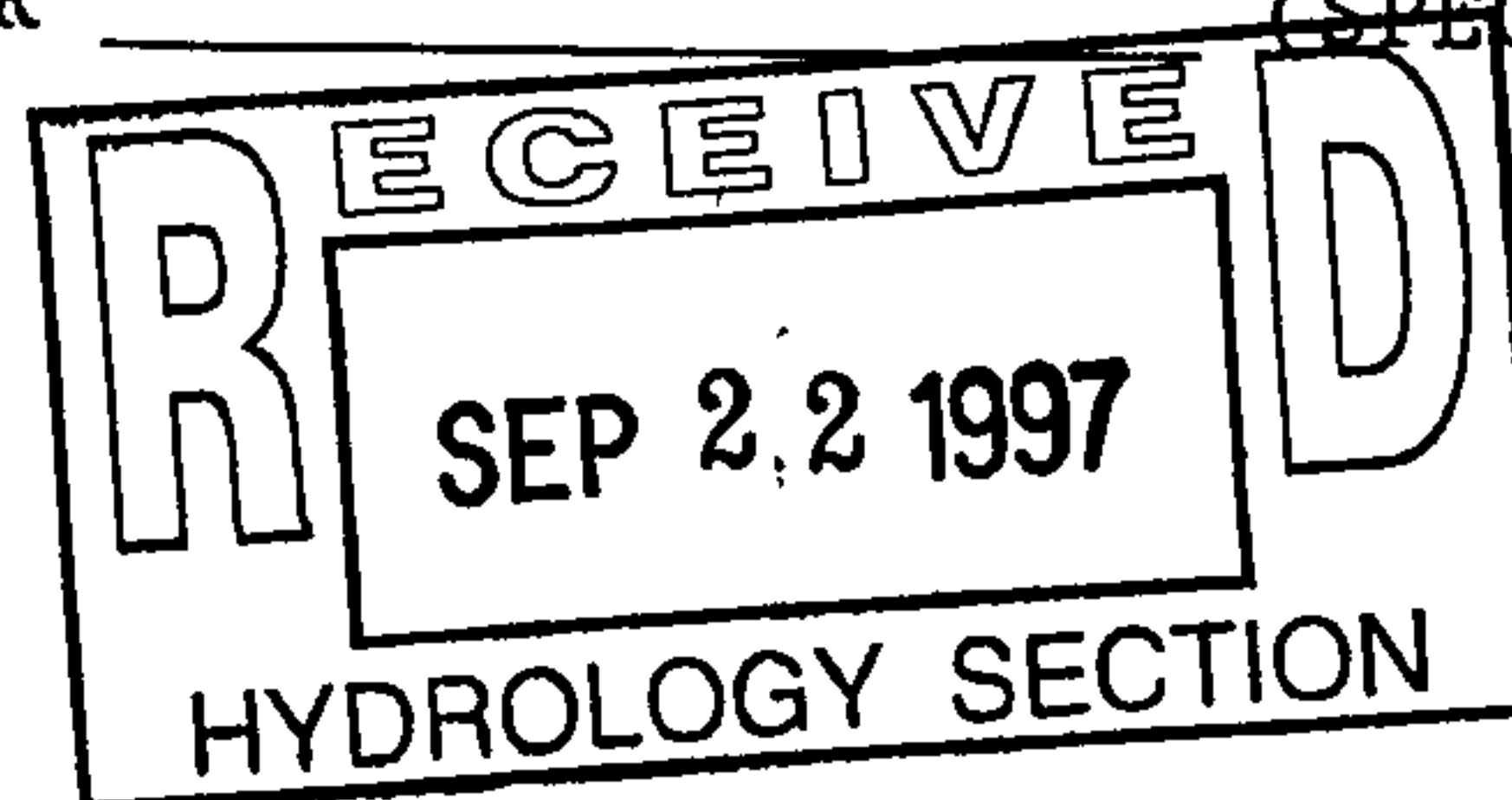
- ☐ YES
☐ NO
☐ COPY PROVIDED

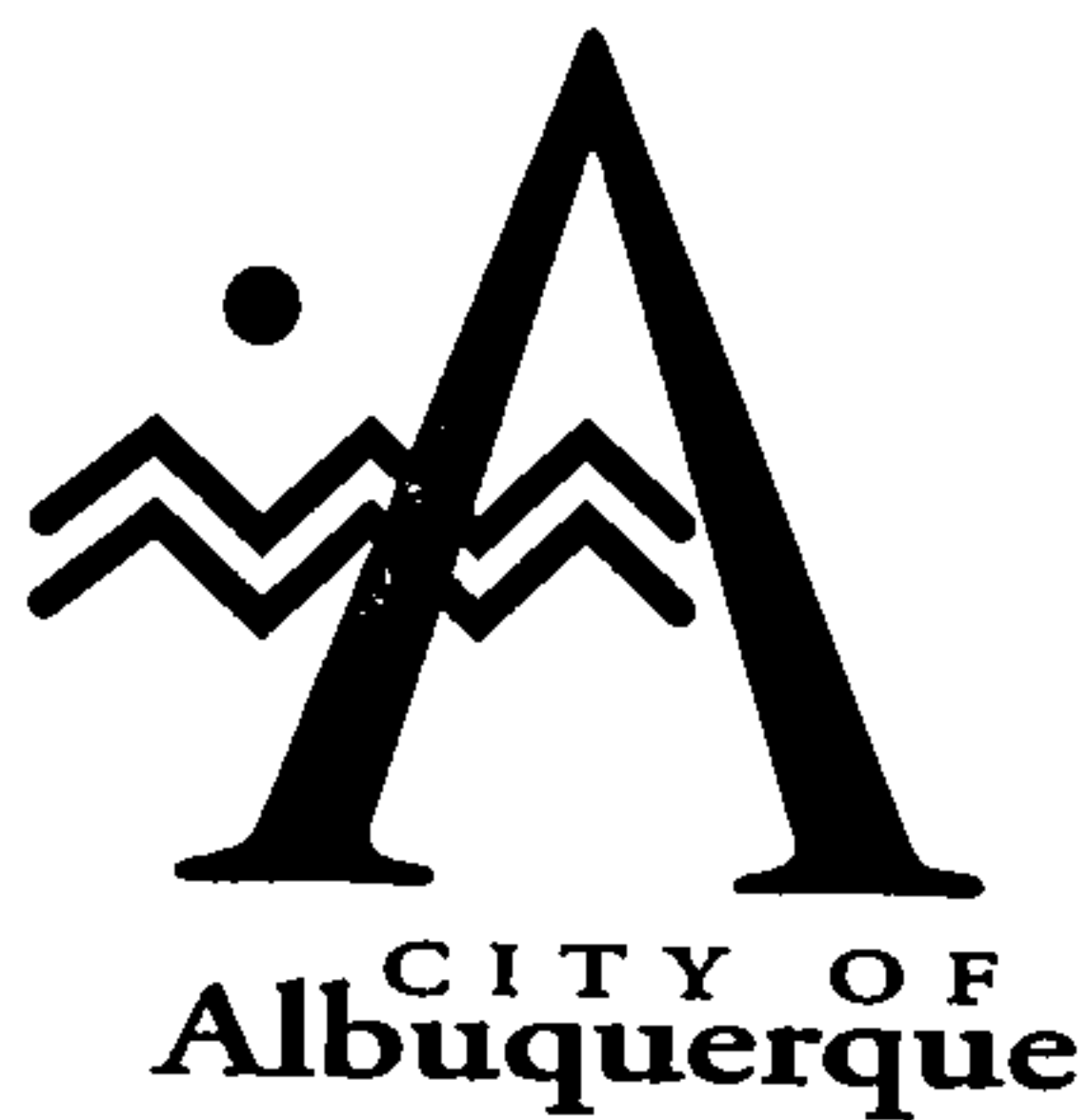
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D. APPROVAL
☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☒ BUILDING PERMIT APPROVAL
☒ CERTIFICATE OF OCCUPANCY APPROVAL
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ SUBDIVISION CERTIFICATION
☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: _____

BY: [Signature] 9/22/97





September 26, 1996

Martin J. Chávez, Mayor

Adam Wright
Red Mountain Engineers, Inc.
4600-C Montgomery NE
Albuquerque, NM 87109

**RE: BARELAS DAY CARE (K13-D40). UPDATED GRADING PLAN FOR
BUILDING AND SO #19 PERMIT APPROVALS. ENGINEER'S STAMP
DATED 8-30-96.**

Dear Mr. Wright:

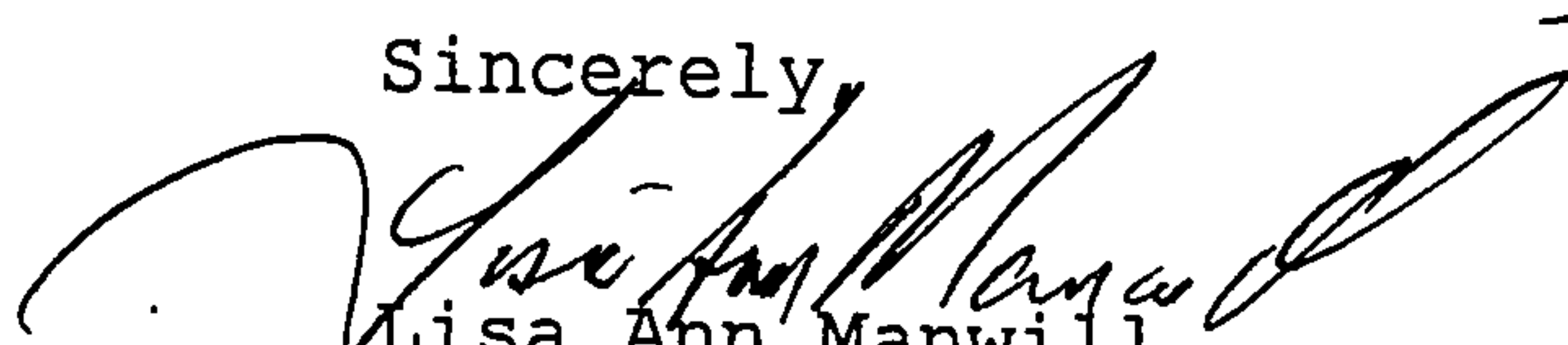
Based on the updated information provided on your September 24, 1996 submittal, the above referenced project is approved for Building and SO #19 permits.

The Engineer's stamp and signature is the only one acknowledged by the Hydrology Division. Because of liability issues, the Architect should not stamp a plan that he did not design. In the future, please do not allow the Architect to stamp your drawings.

Prior to Certificate of Occupancy, an Engineer's Certification will be required.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,



Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Jonathan Siegel - Siegel Design
Arlene Portillo
Andrew Garcia
File

Good for You, Albuquerque!



DRAINAGE INFORMATION SHEET

PROJECT TITLE: BARELAS CHILD CARE ZONE ATLAS/DRNG. FILE #: K-13/1040

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: RIO GRANDE PARK

CITY ADDRESS: 1440 IRON AVE SW

ENGINEERING FIRM: RED MOUNTAIN CONTACT: ADAM WRIGHT

ADDRESS: 4600-C MONTGOMERY NE #101 PHONE: (505) 889-3004

OWNER: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☒ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☒ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION
- ☐ OTHER _____

PRE-DESIGN MEETING:

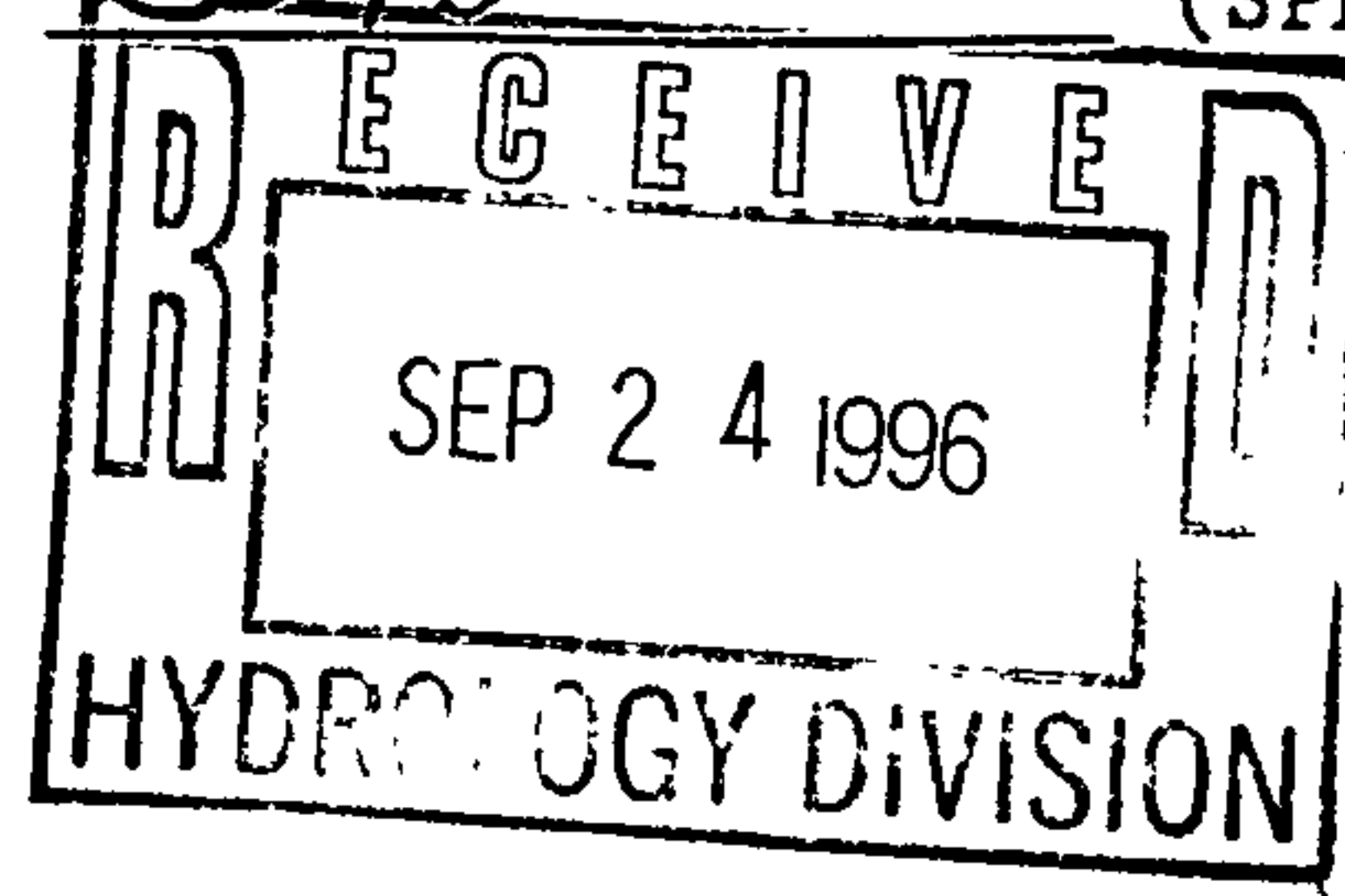
- ☐ YES
- ☐ NO
- ☐ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D. APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☒ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.D. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS
- ☐ SUBDIVISION CERTIFICATION
- ☒ OTHER SOL (SPECIFY)

DATE SUBMITTED: 7-25-96 9-23-96

BY: ADAM WRIGHT



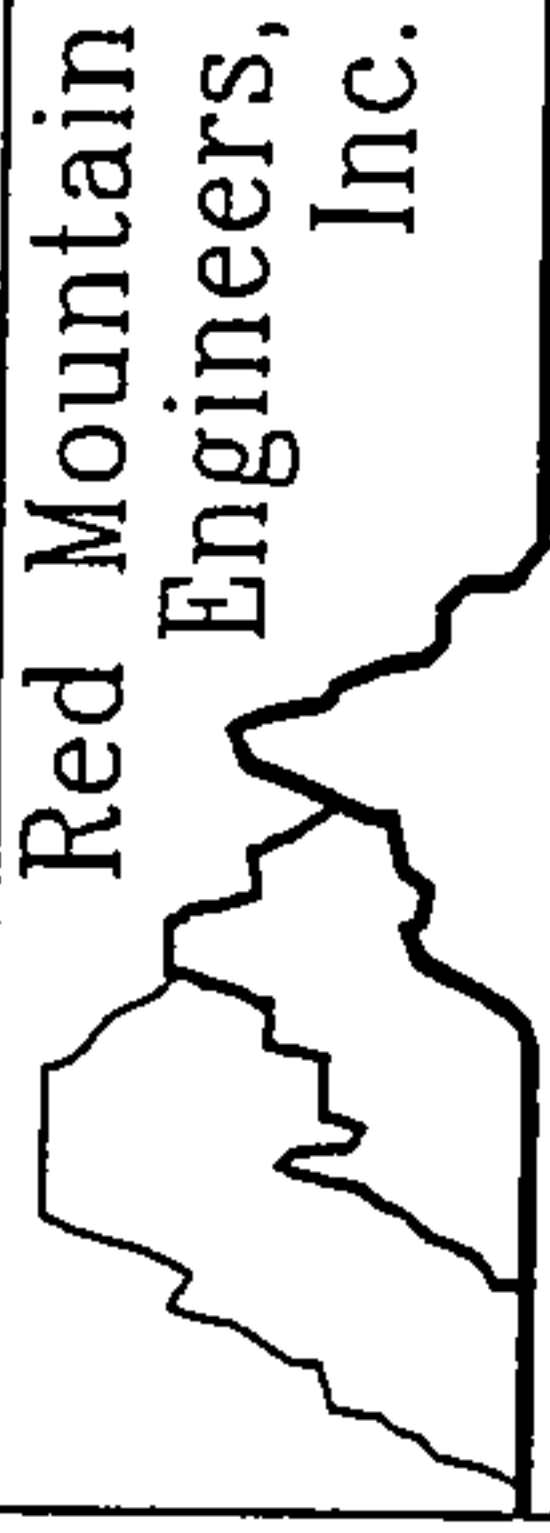
Z:\PROJECTS\CM\96301\PROFILE.DWG

RECEIVED
SEP 24
HYDRAULIC DIVISION

No.	REVISION	BY	APPVD.	DATE
PROJECT:	BARELAS-96301	DESIGN:	ARW	
FILE NAME:	PROFILE.DWG	CHECKED:	JEC	
DATE:	11 JUN 96	DRAWN:	ARW	
SCALE:	AS-SHOWN			

SHEET TITLE

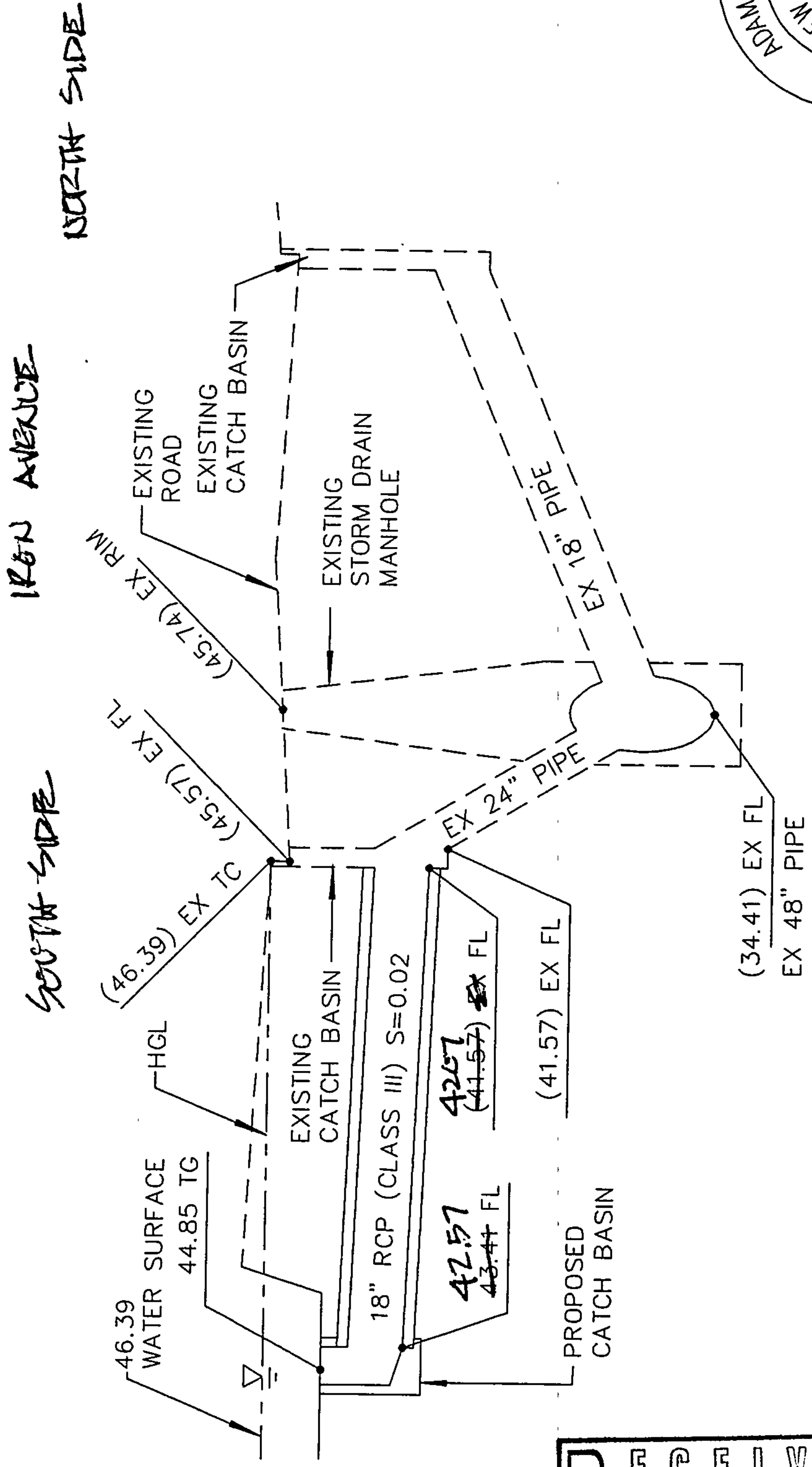
STORM DRAIN PROFILE
BARELAS CHILD CARE FACILITY
ALBUQUERQUE, NM



1216 Parkway Drive, Suite A
P.O. Box 1016
Santa Fe, NM 87506-0116
Phone: (505) 473-7373

Engineers • Surveyors • Planners

4600-C Montgomery Blvd. NE
Suite 101
Albuquerque, NM 87109
Phone: (505) 889-3004



STORM DRAIN PROFILE
SCALE: HORIZ 1"=10'
VERT 1"=5'

PROJECT:
DATE:

BARELAS CHILD CARE FACILITY
17 JUL 96

RUNOFF CALCULATIONS - 40 ACRE AND SMALLER BASINS

REFERENCE: CITY OF ALBUQUERQUE, DEVELOPMENT PROCESS MANUAL (DP
VOL 2, DESIGN CRITERIA, SECTION 22.2, HYDROLOGY, JANUARY 1993

ZONE ATLAS PAGE:

K-13-Z

PRECIPITATION ZONE (DPM SEC 22.2, FIG A-1):

2

100-YEAR 6-HOUR STORM (DPM SEC 22.2, FIG C-2): $P(360)=$

2.27

PRE DEVELOPMENT CONDITIONS:

LAND TREATMENT	C	A (SF)	A (AC)	CxA
A (UNDISTURBED)	0.31	23,200	0.53	0.17
B (LANDSCAPED)	0.45	0	0.00	0.00
C (COMPACTED SOIL)	0.62	0	0.00	0.00
D (IMPERVIOUS)	0.93	0	0.00	0.00
TOTAL		23,200	0.53	0.17

WEIGHTED C:

$$C = \text{SUM}(CxA) / \text{SUM}(A) =$$

0.31

TIME OF CONCENTRATION (HR), $T_c =$

0.1667

RAINFALL INTENSITY (INCHES/HOUR), $I =$

6.06

PEAK DISCHARGE (CFS), $Q(100) = CIA =$

1.0

HYDROGRAPH FOR SMALL WATERSHED

EXCESS PRECIPITATION, $E =$	0.28
BASE TIME, $T_B =$	0.32
TIME TO PEAK, $T_P =$	0.25
DURATION OF PEAK $= 0.25 \cdot AD/AT =$	0.00
VOLUME OF DISCHARGE (CUBIC FEET) $=$	0.2

POST DEVELOPMENT CONDITIONS:

LAND TREATMENT	C	A (SF)	A (AC)	CxA
A (UNDISTURBED)	0.31	0	0.00	0.00
B (LANDSCAPED)	0.45	14,000	0.32	0.14
C (COMPACTED SOIL)	0.62	0	0.00	0.00
D (IMPERVIOUS)	0.93	9,200	0.21	0.20
TOTAL		23,200	0.53	0.34

WEIGHTED C:

$$C = \text{SUM}(CxA) / \text{SUM}(A) =$$

0.64

TIME OF CONCENTRATION (HR), $T_c =$

0.1667

RAINFALL INTENSITY (INCHES/HOUR), $I =$

6.06

PEAK DISCHARGE (CFS), $Q(100) = CIA =$

2.1

HYDROGRAPH FOR SMALL WATERSHED

EXCESS PRECIPITATION, $E =$	1.31
BASE TIME, $T_B =$	0.61
TIME TO PEAK, $T_P =$	0.22
DURATION OF PEAK $= 0.25 \cdot AD/AT =$	0.10
VOLUME OF DISCHARGE (CUBIC FEET) $=$	1.2

REQUIRED PONDING (CUBIC FEET) $=$

1.0

BARELAS CHILD CARE FACILITY

7/25/96

PONDING

WATER IS ASSUMED TO POND AT THE TOP OF CURB (ELEV 46.39) FOR THE 100-YR STORM

WATER WILL POND ON-SITE AT THE TC ELEVATION

THE PONDED WATER DEPTH IS 1.54' AT THE ON SITE CATCH BASIN.

THE PONDED WATER VOLUME IS APPROXIMATELY 5,580 FT³.

$$\text{SURFACE AREA: } 7,250 \text{ FT}^2 \times \frac{1}{2} \times 1.54' = 5580 \text{ FT}^3$$

THE ON-SITE RUNOFF CONTRIBUTES 1 CUBIC FOOT.

OFFSITE FLOWS

THE EXISTING SITE IS A LEVEL DIRT

PARKING LOT; THERE ARE NO APPARENT

FLOWS; RAINFALL POUNDS UNTIL IT EVAPORATES

OR PERCOLATES INTO THE GROUND.