

CITY OF ALBUQUERQUE



October 5, 2012

Jeffrey G. Mortensen, P.E.
High Mesa Consulting Group
6010-B Midway Park Blvd. NE
Albuquerque, NM 87109

jmortensen@highmesacg.com

**Re: Edward Gonzales Elementary School Ph II, 554 90th St SW,
Request for Permanent C.O. –Accepted
Engineer's Stamp dated: 010-19-06, (L09/D034)
Certification dated: 10-04-12**

Dear Mr. Mortensen,

Based upon the information provided in the Certification received 10-04-13, the above referenced Certification is acceptable for a release of a Permanent Certificate of Occupancy by Hydrology.

Hydrology is asking for an electronic copy, in .pdf format, of this certification for our records. This certification can be e-mailed to me at: tsims@cabq.gov.

If you have any questions, you can contact me at 924-3982.

Sincerely,

Timothy E. Sims,
Plan Checker—Hydrology Section
Development and Building Services

C: CO Clerk—Katrina Sigala
File

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: EDWARD GONZALES ELEM. SCHOOL - PHASE 2 ZONE ATLAS/DRNG. FILE #: L9 D34
 DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: TRACT A & B, SOUTHWEST MESA "E" SCHOOL
 CITY ADDRESS: 554 90TH STREET SW, 87121

ENGINEERING FIRM: HIGH MESA CONSULTING GROUP CONTACT: JEFF MORTENSEN
 ADDRESS: 6010-B MIDWAY PARK BLVD. NE PHONE: (505) 345-4250
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87109

OWNER: ALBUQUERQUE PUBLIC SCHOOLS, DEPT FDC CONTACT: DAVID RITCHEY
 ADDRESS: 915 OAK STREET, SE PHONE: 848-8876
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87106

ARCHITECT: MAZRIA ODEMS DZUREC CONTACT: ALEXANDER DZUREC
 ADDRESS: 607 CERILLOS ROAD, SUITE G PHONE: 505-988-5309
 CITY, STATE: SANTA FE, NM ZIP CODE: 87501

SURVEYOR: HIGH MESA CONSULTING GROUP (NMPS 11184) CONTACT: JOE SOLOMON
 ADDRESS: 6010-B MIDWAY PARK BLVD. NE PHONE: (505) 345-4250
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87109

CONTRACTOR: FAMCO CONTACT: JOHN MAZZOLA, CM (APS)
 ADDRESS: _____ PHONE: 362-2663
 CITY, STATE: _____ ZIP CODE: _____

- TYPE OF SUBMITTAL:**
- DRAINAGE REPORT
 - DRAINAGE PLAN 1ST SUBMITTAL, **REQUIRES TCL or equal**
 - DRAINAGE PLAN RESUBMITTAL
 - CONCEPTUAL GRADING & DRAINAGE PLAN
 - GRADING PLAN
 - EROSION CONTROL PLAN
 - ENGINEER'S CERTIFICATION (HYDROLOGY)
 - CLOMR/LOMR
 - TRAFFIC CIRCULATION LAYOUT (TCL)
 - ENGINEER'S CERTIFICATION (TCL)
 - ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
 - OTHER -

- CHECK TYPE OF APPROVAL SOUGHT:**
- SIA/FINANCIAL GUARANTEE RELEASE
 - 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 (PERM.)
 - CERTIFICATE OF OCCUPANCY (TEMP.)
 - GRADING PERMIT APPROVAL
 - PAVING PERMIT APPROVAL
 - WORK ORDER APPROVAL
 - OTHER (SPECIFY) -

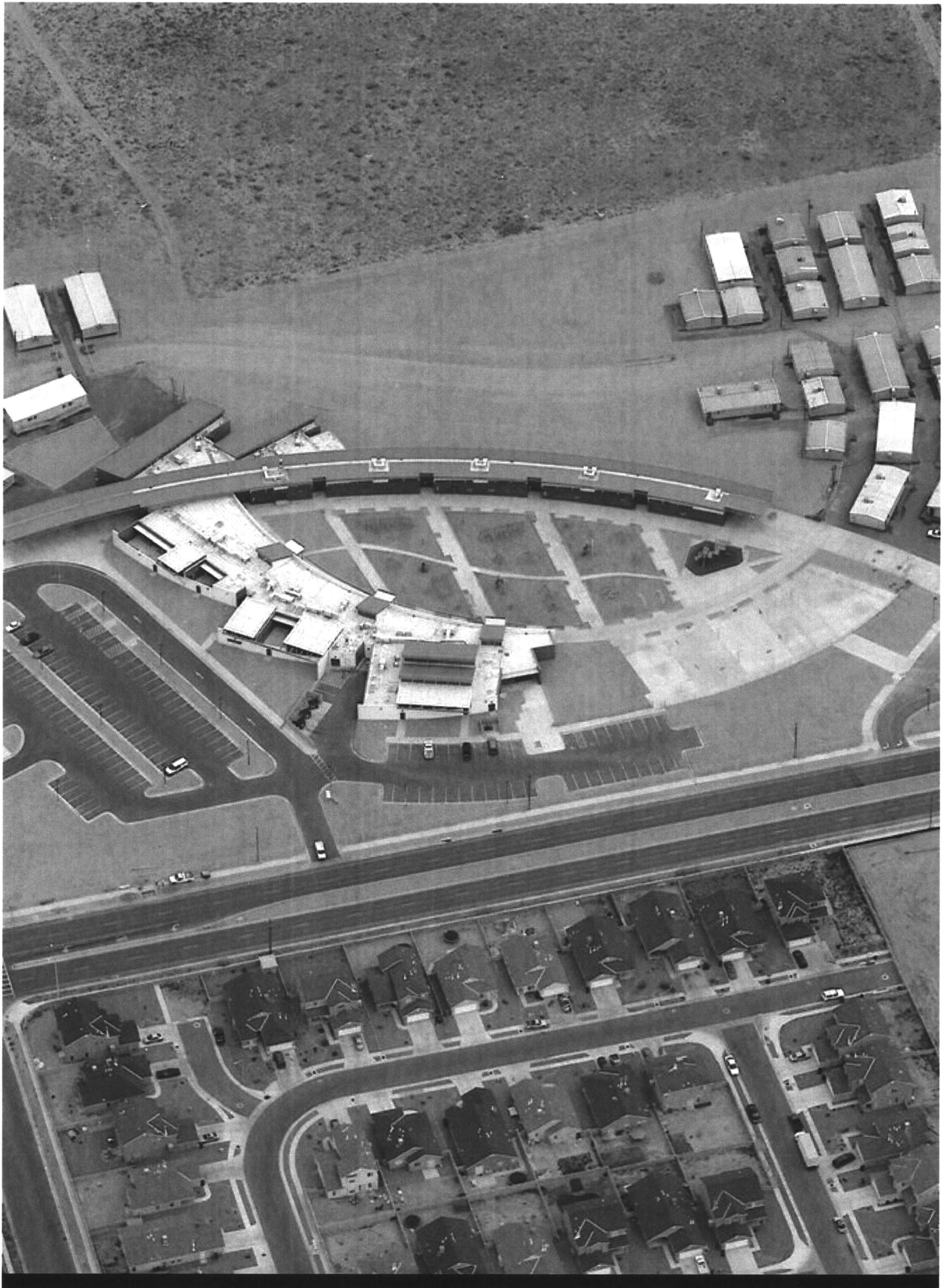
WAS A PRE-DESIGN CONFERENCE ATTENDED:
 YES
 NO
 COPY PROVIDED



DATE SUBMITTED: 10-05-2012 BY: JEFFREY G. MORTENSEN
 XC: _____

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based upon 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 subdivisions containing more than ten (10) lots or constituting five (5) acres or more.



ALBUQUERQUE ENVIRONMENTAL SCHOOL

Introduction

The Albuquerque Environmental School is part of the Albuquerque Public School system. The school will be approximately 73,600 SF and will house 600 students and 80 staff. The school site is 25 acres +/- and is located at 86th and Tower Rd, see Zone Atlas Page L-9-7. The infrastructure in this area is part of the SAD 222 project. The school site is bordered by the Towers subdivision to the west, Eucariz Ave. to the north, 86th St. to the east and Tower Road to the south. Currently all infrastructure is in place except for Eucariz Ave. The planned E-School will only occupy the southern half of the block described above. There are currently no plans for the northern portion of the site.

Existing Conditions

Per the SAD 222 Master Drainage report, runoff from this site (Drainage Area A6) can be handled by the storm sewers in Tower Road and no on-site ponding will be required. Per the Master Drainage Report, 93 cfs can be discharged to Tower Rd, 46 cfs from the school site can also be discharged directly to 86th st., There are no off-site flows crossing the school site.

On-site Discharge

Discharge for the School Site was calculated using Chapter 22 of the Albuquerque DPM. Total discharge from the school site is 52cfs, 13 cfs will be discharged as sheet flow to 86th st. where it will be picked up by the existing catch basins. The remainder of the runoff, 39 cfs, will flow to Tower Road. The majority of runoff will sheet flow across the on-site parking lots to a driveway cut and a sidewalk culvert on the north side of Tower Road. Runoff from the eastern most parking lot will be captured in a water quality and sediment control pond and will be routed via a 24" catch basin and 12" PVC drain line directly to an existing catch basin in Tower Road. This pond will be 24" deep. Pond overflow will also be directed to Tower Road. Because a private storm drain will be tied to catch basins in the ROW, a S.O. #19 signature block has been added to the grading and drainage plan.

Summary

The proposed improvements are sufficient for routing all runoff to the public storm drains in the adjacent streets. The public storm drains have adequate capacity to handle the post-development runoff, therefore no on-site ponding will be required. The majority of the runoff is being routed to Tower Road. This allows runoff from future development on the north side of the site to flow to 86th Street, which will simplify future design.



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 29, 2003

Morey Walker, PE
Walker Engineering
905 Camino Sierra Vista
Santa Fe, NM 87501

5/25/04
2083241
\$92.00
Approved for
5019 Permit
[Signature]
for Bradley L. Bingham

Re: **APS E-School Drainage Report**

Engineer's Stamp dated 8-5-03 (L9/D34)

554 90th St. S.W.

Dear Mr. Walker,

Based on information contained in your submittal dated 8-14-03, the above referenced report is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. Refer to the attachment that is provided with this letter for details. If you have any questions please feel free to call the Public Works Hydrology section at 768-3654 (Charles Caruso) or 768-3645 (Brian Wolfe).

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

If you have any questions, you can contact me at 924-3986.

Sincerely,

[Signature: Bradley L. Bingham]

Bradley L. Bingham, PE
Sr. Engineer, Planning Dept.
Development and Building Services

C: Chuck Caruso, CoA
file
Matt Cline
Pam Lujan



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 29, 2003

Morey Walker, PE
Walker Engineering
905 Camino Sierra Vista
Santa Fe, NM 87501

Re: APS E-School Drainage Report
Engineer's Stamp dated 8-5-03 (L9/D34)

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Bradley L. Bingham, PE
Sr. Engineer, Planning Dept.
Development and Building Services

C: Chuck Caruso, CoA
file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: Albuquerque Public Schools E-School
DRB #: N/A EPC#: _____

ZONE MAP/DRG. FILE #: _____
WORK ORDER#: _____

LEGAL DESCRIPTION: Tracts 18-22, Town of Atrisco Grant, Unit No. Two
CITY ADDRESS: 500 90th Street, SW

ENGINEERING FIRM: Walker Engineering (Civil)
ADDRESS: 905 Camino Sierra Vista
CITY, STATE: Santa Fe, NM

CONTACT: Andy Riemenschneider
PHONE: 690-5873
ZIP CODE: 87501

OWNER: Albuquerque Public Schools
ADDRESS: 912 Oak Street, SE
CITY, STATE: Albuquerque, NM

CONTACT: Bob Becker
PHONE: 242-5865
ZIP CODE: 87106

ARCHITECT: Mazria Riskin Odems, Inc.
ADDRESS: 607-G Cerrillos Road
CITY, STATE: Santa Fe, NM

CONTACT: Joseph Chipman
PHONE: 988-5309x13
ZIP CODE: 87505

SURVEYOR: Walker Surveying
ADDRESS: 424 Shirk Lane, SW
CITY, STATE: Albuquerque, NM

CONTACT: Steve Walker
PHONE: 269-4888
ZIP CODE: 87105

CONTRACTOR: Famco, Inc.
ADDRESS: P.O.Box 14658
CITY, STATE: Albuquerque, NM

CONTACT: Ed Winebrenner
PHONE: 821-5790
ZIP CODE: 87191

CHECK TYPE OF SUBMITTAL:

- DRAINAGE REPORT
- DRAINAGE PLAN 1st SUBMITTAL, *REQUIRES TCL or equal*
- DRAINAGE PLAN RESUBMITTAL
- CONCEPTUAL GRADING & DRAINAGE PLAN
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- 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

DATE SUBMITTED: August 12, 2003

BY: Joseph Chipman; Mazria Riskin Odems, Inc.



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Albuquerque Environmental School

City of Albuquerque

Drainage Study

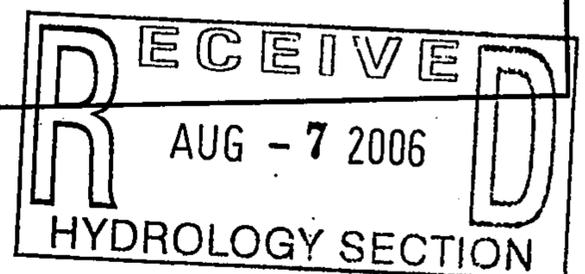
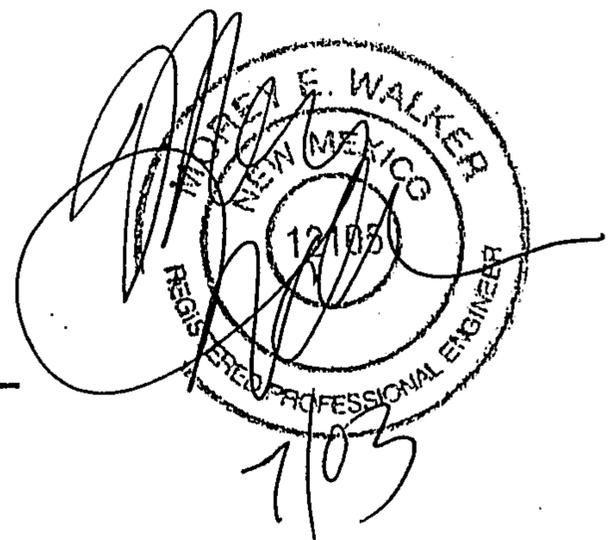
July 2003

By

W • E Walker Engineering

905 Camino Sierra Vista
Santa Fe, NM 87501

civil@walkerengineering.net

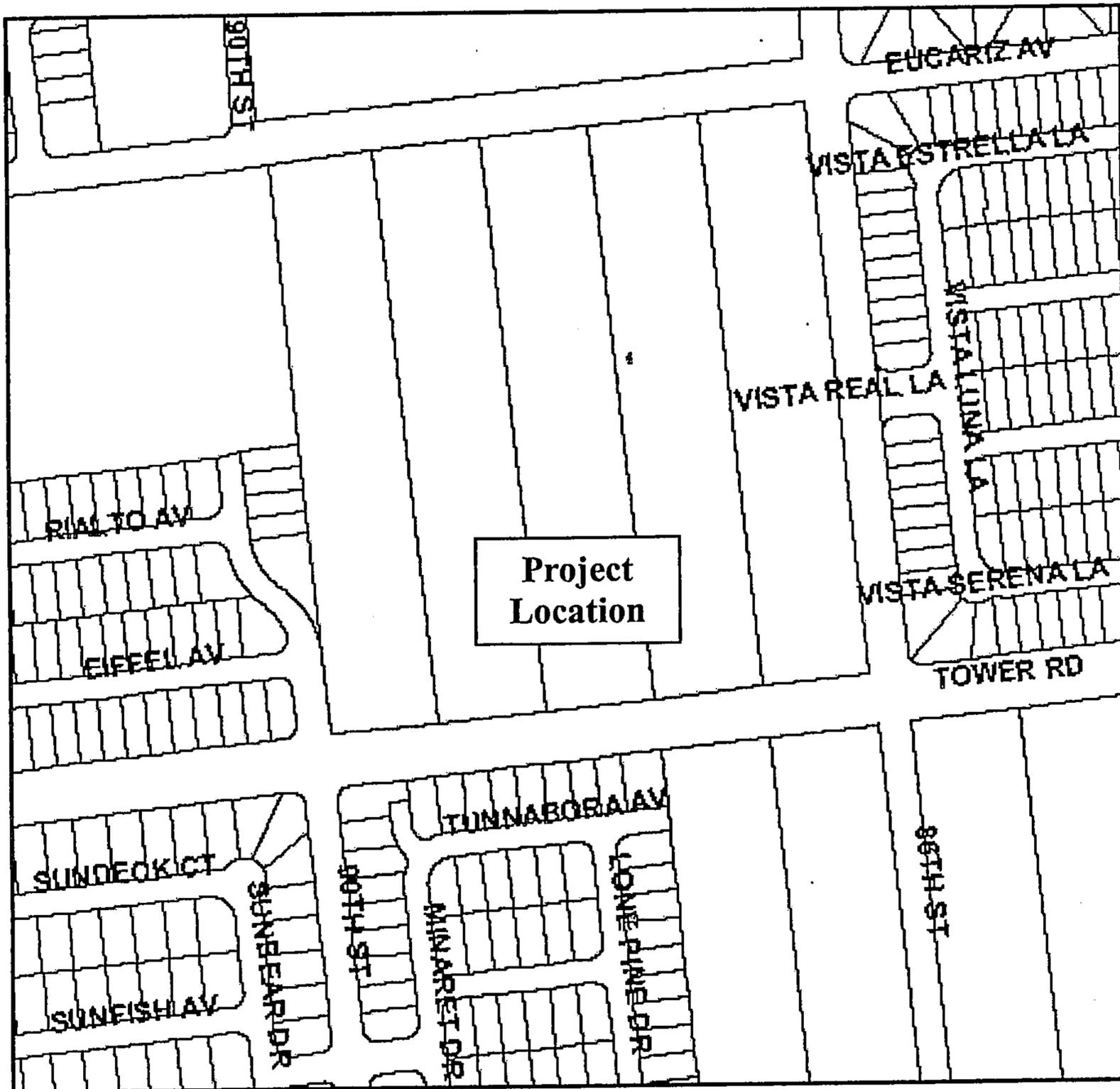


Albuquerque Environmental School

Drainage Study

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Albuquerque Environmental School
Zone Atlas Page L-9

ALBUQUERQUE ENVIRONMENTAL SCHOOL

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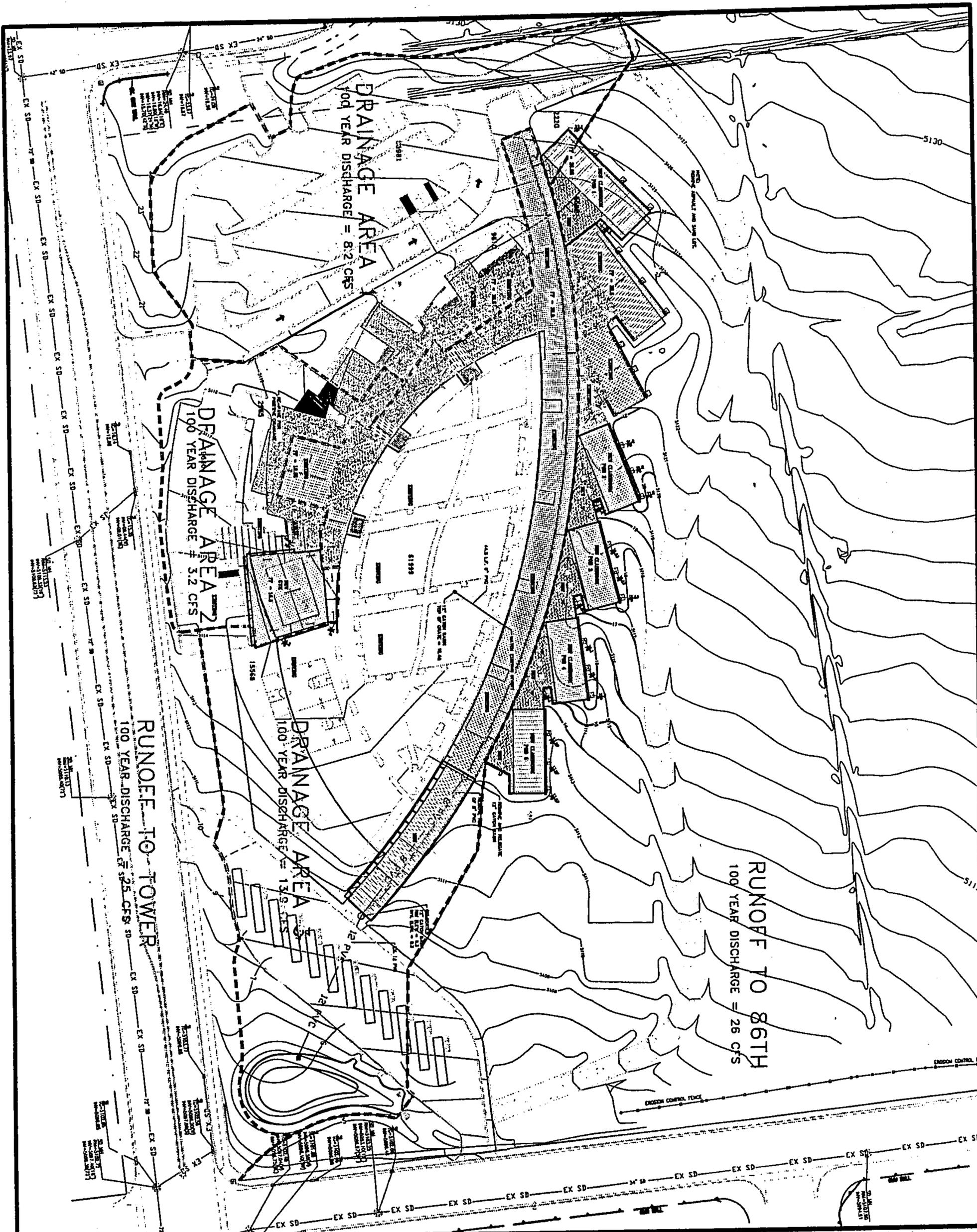
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PROJECT: **ABQ E-SCHOOL**

SHEET: **DRAINAGE AREAS**

PROJECT: 02-184

FILE: 02-184 DRAIN

DATE: 2/11/03

PLAN SCALE: NTS

Civil Engineering • Water Resources • Traffic Engineering

W·E Walker Engineering

605-820-7990 905 Camino Sierra Vista • Santa Fe, NM 87501
 FAX 505-820-3539
 EMAIL civil@walkerengineering.net

Walker Engineering

905 Camino Sierra Vista
Santa Fe, NM 87501

Discharge Calculations for the City of Albuquerque

Project : ABQ E-School
Date: 07-Jul-03

Project No. : 02-184
Lot Area: 24.98 Acres

Precipitation Zone

Zone 1 - West of the Rio Grande

Entire Site

	Area SF	Area Acres	100 Year CFS per Acre	CFS	100 Year Excess Precipitation	E x A
Pre-Development Conditions						
Site Watershed	1088155	24.98	1.29	32.22	0.44	10.99
Post-Development Conditions						
Roof	85416	1.96	4.37	8.57	1.97	3.86
Parking Lot 1	55981	1.29	4.37	5.62	1.97	2.53
Parking Lot 2	19686	0.45	4.37	1.97	1.97	0.89
Parking Lot 3	33728	0.77	4.37	3.38	1.97	1.53
Portables	15151	0.35	4.37	1.52	1.97	0.69
Courtyard Sidewalks	61999	1.42	4.37	6.22	1.97	2.80
Landscaping	30360	0.70	2.03	1.41	0.67	0.47
Natural	785834	18.04	1.29	23.27	0.44	7.94
Total	1088155	24.98		51.97		20.70

Runoff to 86th

	Area SF	Area Acres	100 Year CFS per Acre	CFS	100 Year Excess Precipitation	E x A
Post-Development Conditions						
Impervious	46669	1.07	4.37	4.68	1.97	2.11
Natural	713996	16.39	1.29	21.14	0.44	7.21
Total	760665	17.46		25.83		9.32

Runoff to Tower

	Area SF	Area Acres	100 Year CFS per Acre	CFS	100 Year Excess Precipitation	E x A
Post-Development Conditions						
Impervious	225292	5.17	4.37	22.60	1.97	10.19
Landscaping	30360	0.70	2.03	1.41	0.67	0.47
Natural	71838	1.65	1.29	2.13	0.44	0.73
Total	327490	7.52		26.14		11.38

Walker Engineering

905 Camino Sierra Vista
Santa Fe, NM 87501

Storm Drain Calculations for the City of Albuquerque

Project : ABQ E-School
Date: 07-Jul-03

Project No. : 02-184
Lot Area: 24.98 Acres

Drainage Area 1

	Area SF	Area Acres	100 Year CFS per Acre	CFS	10 Year CFS per Acre	CFS
Post-Development Conditions						
Impervious	72288	1.66	4.37	7.25	1.24	2.06
Landscaping	11830	0.27	2.03	0.55	0.22	0.06
Natural	13139	0.30	1.29	0.39	0.08	0.02
Total	97257	2.23		8.19		2.14

Description: Runoff will sheet flow across parking lot to the driveway cut. 100 year depth is less than 2".

Drainage Area 2

	Area SF	Area Acres	100 Year CFS per Acre	CFS	10 Year CFS per Acre	CFS
Post-Development Conditions						
Impervious	30634	0.70	4.37	3.07	1.24	0.87
Landscaping	2965	0.07	2.03	0.14	0.22	0.01
Natural	0	0.00	1.29	0.00	0.08	0.00
Total	33599	0.77		3.21		0.89

Description: Runoff will sheet flow across parking lot to the driveway cut. 100 year depth is less than 2".

Drainage Area 3

	Area SF	Area Acres	100 Year CFS per Acre	CFS	10 Year CFS per Acre	CFS
Post-Development Conditions						
Impervious	125405	2.88	4.37	12.58	1.24	3.57
Landscaping	15565	0.36	2.03	0.73	0.22	0.08
Natural	21392	0.49	1.29	0.63	0.08	0.04
Total	162362	3.73		13.94		3.69

Description: Three curb cut openings leading to pond with one 24" drop inlet connected by a 12" CMP tied to existing catch basin in Tower Road.

24" Curb Cuts (Each)	5.5 CFS
24" Drop Inlet Capacity (Pond)	7.0 CFS
12" Pipe Capacity	3.5 CFS

Walker Engineering

905 Camino Sierra Vista
Santa Fe, NM 87501

Storm Drain Calculations for the City of Albuquerque

Project : ABQ E-School
Date: 10-Feb-03

Project No. : 02-184
Lot Area: 24.98 Acres

Drainage Area 1

	Area SF	Area Acres	100 Year CFS per Acre	CFS	10 Year CFS per Acre	CFS
Post-Development Conditions						
Impervious	72288	1.66	4.37	7.25	1.24	2.06
Landscaping	11830	0.27	2.03	0.55	0.22	0.06
Natural	13139	0.30	1.29	0.39	0.08	0.02
Total	97257	2.23		8.19		2.14

Description: Three 24" drop inlets connected by 18" CMP tied to existing catch basin in Tower Road.

24" Drop Inlet Capacity (Each)	4.9 CFS
18" Pipe Capacity 1	7.4 CFS
18" Pipe Capacity 2	7.5 CFS
18" Pipe Capacity 3	10.5 CFS

Drainage Area 2

	Area SF	Area Acres	100 Year CFS per Acre	CFS	10 Year CFS per Acre	CFS
Post-Development Conditions						
Impervious	30634	0.70	4.37	3.07	1.24	0.87
Landscaping	2965	0.07	2.03	0.14	0.22	0.01
Natural	0	0.00	1.29	0.00	0.08	0.00
Total	33599	0.77		3.21		0.89

Description: One 24" drop inlet connected by 18" CMP to drop inlet in drainage area 3.

24" Drop Inlet Capacity (Parking)	4.9 CFS
18" Pipe Capacity	8.0 CFS

Drainage Area 3

	Area SF	Area Acres	100 Year CFS per Acre	CFS	10 Year CFS per Acre	CFS
Post-Development Conditions						
Impervious	125405	2.88	4.37	12.58	1.24	3.57
Landscaping	15565	0.36	2.03	0.73	0.22	0.08
Natural	21392	0.49	1.29	0.63	0.08	0.04
Total	162362	3.73		13.94		3.69

Description: Three curb cut openings leading to pond with one 24" drop inlet connected by 24" CMP tied to existing catch basin in Tower Road.

24" Curb Cuts (Each)	5.5 CFS
24" Drop Inlet Capacity (Pond)	7.0 CFS
24" Pipe Capacity	22.2 CFS

WinStorm (STORM DRAIN DESIGN)

Version 3.05, Jan. 25, 2002
Run @ 7/8/2003 10:33:58 AMPROJECT NAME : E-School
JOB NUMBER : 02-184
PROJECT DESCRIPTION : Pond Catch BasinDESIGN FREQUENCY : 100 Years
MEASUREMENT UNITS: ENGLISHOUTPUT FOR DESIGN FREQUENCY of: 100 Years
=====

Runoff Computation for Design Frequency.

ID	C Value	Area (acre)	Tc (min)	Tc Used (min)	Intensity (in/hr)	Supply Q (cfs)	Total Q (cfs)
A-2	0.0	0.00	10.00	0.00	0.00	13.900	13.900

Sag Inlets Configuration Data.

Inlet ID	Inlet Type	Length/ Perim. (ft)	Grate Area (sf)	Left-Slope Long Trans (%)	Right-Slope Long Trans (%)	Gutter n	Depth Deprw (ft)	Depth Allowed (ft)	Critic Elev. (ft)
A-2	Grate	8.00	1.30	0.50	2.00	0.014	n/a	1.00	5104.00

Sag Inlets Computation Data.

Inlet ID	Inlet Type	Length (ft)	Grate Perim Area (ft) (sf)	Total Q (cfs)	Inlet Capacity (cfs)	Total Head (ft)	Ponded Left (ft)	Width Right (ft)
A-2	Grate	n/a	8.00 1.30	13.900	6.987	3.955	16.15	16.15

Cumulative Junction Discharge Computations

Node I.D.	Node Type	Weighted C-Value	Cumulat. Dr. Area (acres)	Cumulat. Tc (min)	Intens. (in/hr)	User Supply Q (cfs)	Additional Q in Node (cfs)	Total Disch. (cfs)
A-2	Grate	0.000	0.00	0.00	0.00	13.900	0.00	13.900
OUT	outlet	0.000	0.00	0.00	0.00	13.900	0.00	13.900

Conveyance Configuration Data

Run#	Node I.D.	Flowline Elev.	Shape #	Span (ft)	Rise (ft)	Length (ft)	Slope (%)	n_value
	US DS	US DS (ft) (ft)						
2	A-2 OUT	5101.00 5098.20	Circ 1	0.00	2.00	78.90	3.55	0.025

Conveyance Hydraulic Computations. Tailwater = 0.000 (ft)

stmOutput.txt

Run#	Hydraulic Gradeline			Depth		Velocity		Q (cfs)	Cap (cfs)	Junc Loss (ft)
	US Elev (ft)	DS Elev (ft)	Fr.Slope (%)	Unif. (ft)	Actual (ft)	Unif. (f/s)	Actual (f/s)			
2*	5102.15	5099.35	1.396	1.15	1.15	7.45	7.45	13.90	22.17	0.000
=====END=====										

* Super critical flow.

NORMAL TERMINATION OF WINSTORM.

Warning Messages for current project:

Runoff Frequency of: 100 Years
 Capacity of sag inlet exceeded at inlet Id= A-2
 Tailwater set to uniform depth elevation = 5099.35(ft)

JOB CONTROL : CONT
JOB SECTION : SEC
JOB NUMBER : JOB
PROJECT DESCRIPTION : E-SCHOOL
DESIGN FREQUENCY : 100 Year
MEASUREMENT UNITS: Input ENGLISH Output ENGLISH

Runoff Computations

I.D.	C Value	Area (acres)	Tc (min)	Tc Used (min)	Intensity (in/hr)	Supply Q (cfs)	Total Q (cfs)
A3	0.000	0.000	0.00	0.00	0.000	1.330	1.330

On-Grade Inlet Configuration Data

Inlet I.D.	Inlet Type	Inlet Length (ft)	Slopes Long. (%)	Trans. (%)	Gutter n	Depr. (ft)	Grate Width (ft)	Type	Pond Width Allowed (ft)	Critical Elev.
A3	C&GG	9.600	8.20	2.00	0.016	n/a	1.380	TRNS	16.000	No Value

On-Grade Inlet Computation Data

Inlet I.D.	Inlet Type	Total Q (cfs)	Inlet Capacity (cfs)	Total Carryover (cfs)	To Inlet	Required Length (ft)	Actual Length (ft)	Ponded Width (ft)
A3	C&GG	1.330	1.087	0.243		n/a	0.000	5.250

Cumulative Junction Discharge Computations

Node I.D.	Weighted C-Value	Cumulative Drainage Area (acres)	Cumulative Tc (min)	Intensity (in/hr)	Supplied Discharge (cfs)	Total Discharge (cfs)
A3	0.000	0.000	0.00	0.000 *	1.330	1.330

Conveyance Configuration Data

Run I.D.	Node US	I.D. DS	Flowline US	Elev. DS	Shape	#	Span (ft)	Rise (ft)	Length (ft)	Slope (%)	n
1	A3	01	5099.500	5096.700	Circ	1	n/a	1.500	78.90	3.551	0.024

Conveyance Hydraulic Computations

Run	Hydraulic Gradeline			Depth		Velocity		Q (cfs)	Cap (cfs)	Junc Loss (ft)
	US Elev	DS Elev	Slope (%)	Unif. (ft)	Actual (ft)	Unif. (fps)	Actual (fps)			
1	5100.095	5097.057	0.05	0.357	0.357	4.14	4.13	1.330	10.722	0.000

*Warning: Ivalid gutter id I1

***Computation Messages for 100 years frequency.

*Warning: Capacity of grade inlet id A3 exceeded.

*Warning: Tailwater Set to Minimum of Uniform or Critical Depth Elevation

*Computation: Run = 1 - Steep Lateral. Inlet Control Headwater used for Hydraulic Gradeline

NORMAL Completion of WinStorm.

CITY OF ALBUQUERQUE



August 9, 2006

Morey E. Walker, P.E.
Walker Engineering
905 Camino Sierra Vista
Santa Fe, NM 87501

Re: Albuquerque Schools E-School, Engineer's Stamp dated 7-26-06 (L9/D34)

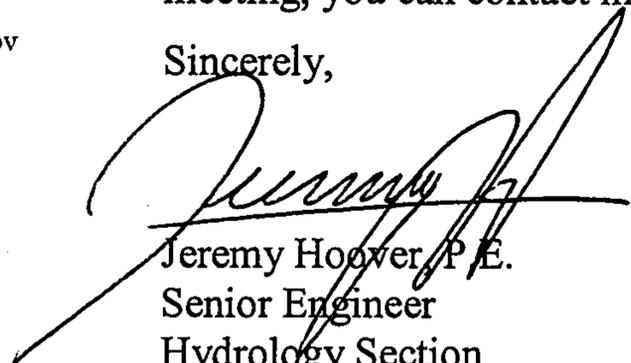
Dear Mr. Walker,

In order to gain a better understanding of the existing conditions at the subject site, a site visit was initiated on August 8th. Several discrepancies were found between the field observations and the plan submitted for Building Permit. There are over two-dozen structures present near the northeast corner of the site that are not shown on your plan. The Grading and Drainage Plan certified in 2004 does show some structures within this area, but those are all located on the south side of the existing driveway. An aerial photograph is included as an attachment to this document for your reference.

Please revise your plan to indicate the existing conditions with respect to the proposed improvements. Given the fact that the existing site layout does not reflect the approved configuration, a revised set of drainage calculations, including pond volume analysis, is required. A narrative explaining exactly what changes are to occur must be included. As part of the plan revision, please indicate the invert elevation and adjacent contours / spot elevations of the new catch basin in the central playground area. The proposed location of this catch basin appears to coincide with the high point elevation of 5116.5-feet shown on the certified Grading and Drainage plan submitted for permanent C.O. in 2004. As such, its effectiveness is questionable. This should also be addressed in the narrative.

I would be more than willing to meet with you in person to discuss these issues in order to expedite the approval process. If you have any questions or would like to schedule a meeting, you can contact me at 924-3990.

Sincerely,


Jeremy Hoover, P.E.
Senior Engineer
Hydrology Section
Development and Building Services

cc: file L9/D34

encl: Aerial Photograph

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

Attn: Morry Walker

505-820-3539

FILED AT = [unclear] CROSS 1862.dwg

SCALE = 1" = 30'

BEARING TO CASE

N 6° 09' 14" W

H. DIST = 1012.30

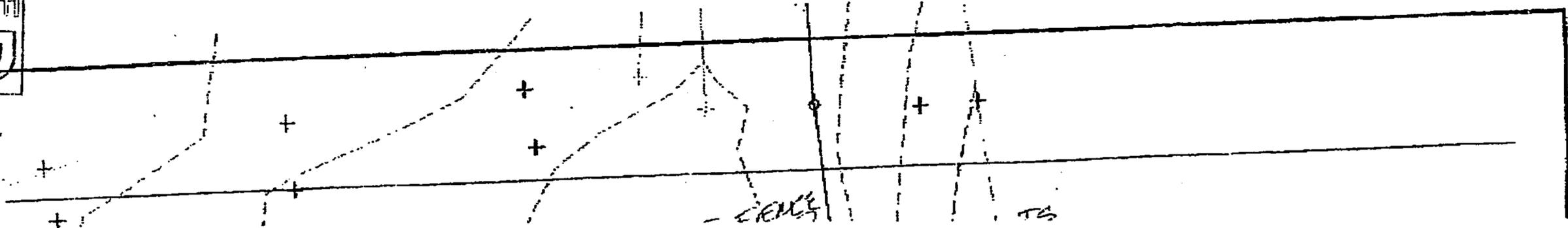
BM =

Benchmark Name	Elevation (US-Foot) Datum (NGVD29)	Elevation (US-Foot) Datum (NAVD88)	Description	Order/Class for NGVD29
21-L9	5103.681	5106.40	ACS 3/4" aluminum cap, stamped "21-L9", set flush on the top of concrete curb in the West median nose at the intersection of Tower Road SW. and 86th Street SW. Station is located 4.9 feet North of centerline of Tower Road SW. and 40.7 feet West of centerline of 86th Street SW.	2nd Order, 1st Class

TBM #1 - CHISELED "+" ON THE S.W. COR. OF CONG. PAD. AS SHOWN IN DWG. ELEV = 5127.14

TBM #2 - CHISELED "+" ON SIDEWALK AS SHOWN IN DWG ELEV = 5112.87

R
 RECEIVED
 AUG - 7 2006
D
 HYDROLOGY SECTION



07/26/2006 09:01 0003454204

CITY OF ALBUQUERQUE



January 24, 2007

Jeffrey G. Mortensen, P.E.
Jeff Mortensen & Associates
6010-B Midway Park NE
Albuquerque, NM 87109

Re: Albuquerque Schools E-School, Engineer's Stamp dated 1-7-07 (L9/D34)

Dear Mr. Mortensen,

Based upon the information provided in your submittal received January 9, 2007, the above referenced plan is approved for both Grading and SO-19 Permit. A copy of this approval letter must be on hand when applying for the excavation permit.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

This project will also require a National Pollutant Discharge Elimination System (NPDES) permit. Inquiries regarding this permit should be directed to Sertil Kandar at 768-3645.

P.O. Box 1293

If you have any questions, you can contact me at 924-3990.

Sincerely,

Albuquerque

A handwritten signature in black ink, appearing to read "Jeremy Hoover".

Jeremy Hoover, P.E.
Senior Engineer
Hydrology Section
Development and Building Services

New Mexico 87103

www.cabq.gov

cc: file L9/D34

Edward Elwell, DMD Street / Storm Maintenance
Antoinette Baldonado, Construction Services

CITY OF ALBUQUERQUE
DEVELOPMENT & BUILDING SERVICES CENTER
PLANNING DEPARTMENT/HYDROLOGY SECTION

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NUMBER: L-9/D-34 DATE: 09-6-2006
CROSS REFERENCE NUMBERS: EPC _____ DRB _____ DRC _____
SUBJECT: EDWARD GONZALES (L9/D 34) AND NEW SOUTHWEST ELEMENTARY SCHOOLS
STREET ADDRESS: 554 90th Street SW (EDWARD GONZALES)
SUBDIVISION NAME: TRACTS A & B, SOUTHWEST MESA "E" SCHOOL, LANDS OF APS

TYPE OF APPROVAL

- PRELIMINARY & FINAL PLAT
 BUILDING PERMIT
 GRADING PERMIT
 SITE DEVELOPMENT PLAN FOR SUBDIVISION
 OTHER WORK ORDER; MASTER DRAINAGE PLAN

<u>ATTENDEE:</u>	<u>ORGANIZATION:</u>	<u>PHONE:</u>
JEFF MORTENSEN	JMA	345-4250
FRED J. AGUIRRE	JMA	345-4250
BRAD BINGHAM	HYDROLOGY	924-3986
JEREMY HOOVER	HYDROLOGY	924-3990

FINDINGS:

- 1) AN APPROVED MASTER DRAINAGE PLAN/REPORT PER THE DPM WILL BE REQUIRED TO SUPPORT THE FOLOWING:
 - a. DRAINAGE MASTER PLAN FOR ENTIRE SITE (BOTH SCHOOL SITES)
 - b. BUILDING PERMIT FOR EDWARD GONZALES PHASE 2
 - c. WORK ORDER PLANS FOR EUCARIZ SW (HALF-WIDTH PAVING)
 - d. CONCEPT FOR DEVELOPING THE NORTH HALF OF THE SITE AS A NEW ELEMENTARY SCHOOL
- 2) THE MASTER DRAINAGE PLAN WILL NEED TO ADDRESS THE FOLLOWING:
 - a. EXISTING CONDITIONS FOR THE EDWARD GONZALES SITE (L9/D 34)
 - b. DRAINAGE INFRASTRUCTURE FOR THE NEW ELEMENTARY SCHOOL ON THE NORTH PORTION OF THE APS PROPERTY (DOUBLE "C" STORM INLET IN SOUTH CURB LINE OF EUCARIZ)
 - c. WORK ORDER PLANS FOPR SOUTH HALF OF EUCARIZ
 - d. DRAINAGE CRITERIA (ALLOWABLE DISCHARGE, METHOD OF DISHARGE, ETC.) FOR THE NEW ELEMENTARY SCHOOL
 - e. IDENTIFY DRAINAGE DEFICIENCLES AND CORRECTIONS FOR THE EXISTING EDWARD GONZALES SITE
- 3) THE ALLOWABLE DISCHARGE FOR THE SUBJECT 25 ACRE SITE IS 93 CFS (~~3.2~~ 3.8-3.9 CFS/ACRE).
- 4) INCLUDE A DOUBLE "C" INLET WITH THE CONSTRUCTION OF EUCARIZ HALF STREET IMPROVEMENTS TO PICK-UP BYPASS RUNOFF FROM UPSTREAM (FROM THE WEST).
- 5) DISCHARGE THE FUTURE SW ELEMENTARY SCHOOL 10-YR STORM DEVELOPED RUNOFF DIRECTLY INTO THE 86TH STREET PUBLIC STORM DRAIN; DETAIN RUNOFF AS NECESSARY.
- 6) ULTIMATE OUTFALL FOR THE SITE IS AMAFCA'S TOWER PARK POND, LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF 86TH STREET SW AND TOWER ROAD SW, IMMEDIATELY DOWNSTREAM OF THE SITE.
- 7) THE NEED FOR A REPLAT WAS NOT CLEAR; THE NEW ELEMENTARY SCHOOL SITE WILL PROBABLY OVERLAP THE EXISTING LOT LINE SEPARATING TRACTS A AND B.

2006.181.1
PRE-DESIGN CONFERENCE RECAP
SEPTEMBER 06, 2006
PAGE 2

- 8) FINANCIAL GUARANTEES WILL NOT BE REQUIRED FOR THE PROPOSED EUCARIZ HALF-WIDTH PAVING AND STORM DRAIN IMPROVEMENTS. THE BUILDING PERMIT'S CERTIFICATE OF OCCUPANCY (CO) WILL BE USED TO GUARANTEE COMPLIANCE FOR THESE OFFSITE PUBLIC IMPROVEMENTS.

THE UNDERSIGNED AGREE THAT THE ABOVE FINDINGS ARE SUMMARIZED ACCURATELY AND ARE ONLY SUBJECT TO CHANGE IF FURTHER INVESTIGATION REVEALS THAT THE FINDINGS ARE NOT REASONABLE OR THAT THEY ARE BASED UPON INACCURATE INFORMATION.

SIGNED: Bradley D. Bigham
TITLE: City Hydrologist
DATE: 9-12-06

SIGNED: Paul J. Payne
TITLE: _____
DATE: 9-12-06

NOTE: PLEASE PROVIDE A COPY OF THIS RECAP WITH EACH DRAINAGE SUBMITTAL

CITY OF ALBUQUERQUE



December 12, 2008

Jeffrey G. Mortensen, P.E.
High Mesa Consulting Group
6010-B Midway Park Blvd. NE
Albuquerque, NM 87109

**Re: Edward Gonzales Elementary School, 554 90th Street, Paving,
Grading/Drainage Plan, Engineer's Stamp, 1/07/07, (L-09/D034)**

Mr. Mortensen,

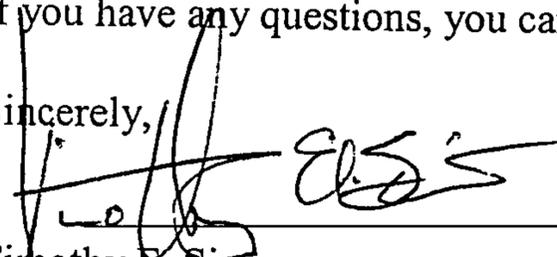
Thank you for providing an Engineer Certification for Paving and
Grading/Drainage of the above referenced plan. It will be placed in the project file

PO Box 1293

If you have any questions, you can contact me at 924-3982.

Sincerely,

Albuquerque


Timothy E. Sims
Plan Checker, Planning Dept.-Hydrology
Development and Building Services

NM 87103

C: file

www.cabq.gov

*Phase I
only.*

HIGH MESA Consulting Group

6010-B Midway Park Blvd. NE
 Albuquerque, New Mexico 87109
 Phone: 505.345.4250
 Fax: 505.345.4254
 www.highmesacg.com

TRANSMITTAL:

TO: BRAD BINGHAM CITY HYDROLOGIST ONE STOP	FROM: JEFF MORTENSEN
PROJECT: EDWARD GONZALES ES	RE: FINAL DRAINAGE CERTIFICATION
JOB NO: 2006.181.1 (L9/D34)	DATE: 12-10-2008
CC: JOHN MAZZOLA	

cert 12-8-08

VIA: Delivery Pickup US Mail Federal Express Delivery Fax

WE ARE SENDING:

QTY.	DESCRIPTION:	DATE	FOR:
1	ENGINEER'S DRAINAGE CERTIFICATION	DEC 11 2008	PHASE 1 DRAINAGE CORRECTIONS SUBMITTAL
1	DRAINAGE INFORMATION SHEET	HYDROLOGY SECTION	

REMARKS:

THIS SHOULD CONCLUDE OUR WORK ON THIS PHASE OF THIS PROJECT. WE UNDERSTAND THAT STORM DRAIN MAINTENANCE HAS ALREADY PROVIDED YOU WITH A "GREEN TAG" VIA E-MAIL OR PHONE. THIS CERTIFICATION ADDRESSES THOSE PHASE 1 DEFICIENCIES IDENTIFIED BY THE MASTER DRAINAGE PLAN FOR THE SITE PREPARED BY THIS OFFICE DATED 10-26-2006. IN ADDITION, THIS SUBMITTAL DEPICTS ADDITIONAL PHASE 2 STORM DRAIN DESIGNED AND INSTALLED AFTER THE ISSUANCE OF THE PHASE 2 BUILDING PERMIT. THIS SUBMITTAL DOES NOT CONSTITUTE AN ENGINEER'S DRAINAGE CERTIFICATION FOR THE PHASE 2 BUILDING.

PLEASE REVIEW THIS SUBMITTAL FOR COMPLETENESS. IF YOU SHOULD NEED ADDITIONAL INFORMATION TO SUPPORT ISSUANCE OF THE PERMAMENT CO FOR PHASE 2, PLEASE DO NOT HESITATE TO CALL

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

2-09/0034

PROJECT TITLE: EDWARD GONZALES DRAINAGE ZONE ATLAS/DRNG. FILE #: L18-D34
 DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION:
 CITY ADDRESS: 554 90TH STREET SW, 87121

ENGINEERING FIRM: HIGH MESA CONSULTING GROUP. CONTACT: JEFF MORTENSEN
 ADDRESS: 6010-B MIDWAY PARK BLVD. NE PHONE: (505) 345-4250
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87109

OWNER: ALBUQUERQUE PUBLIC SCHOOLS CONTACT: JOHN MAZZOLA
 ADDRESS: 915 OAK STREET SE PHONE: 505-362-2663
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87106

ARCHITECT: MAZRIA ODEMS DZUREC CONTACT: ALEXANDER DZUREC
 ADDRESS: 607 CERILLOS ROAD, SUITE G PHONE: 505-988-5309
 CITY, STATE: SANTA FE, NM ZIP CODE: 87505

SURVEYOR: HIGH MESA CONSULTING GROUP (NMPS 11184) CONTACT: CHARLES G. CALA, JR
 ADDRESS: 6010-B MIDWAY PARK BLVD. NE PHONE: (505) 345-4250
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87109

CONTRACTOR: ALTOR CONSTRUCTION CONTACT: MARIE ALVIDREZ
 ADDRESS: 5215 EDITH NE PHONE: 341-1551
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87107

- TYPE OF SUBMITTAL:**
- DRAINAGE REPORT
 - DRAINAGE PLAN 1ST SUBMITTAL, *REQUIRES TCL or equal*
 - DRAINAGE PLAN RESUBMITTAL
 - CONCEPTUAL GRADING & DRAINAGE PLAN
 - GRADING PLAN
 - EROSION CONTROL PLAN
 - ENGINEER'S CERTIFICATION (HYDROLOGY)
 - CLOMR/LOMR
 - TRAFFIC CIRCULATION LAYOUT (TCL)
 - ENGINEER'S CERTIFICATION (TCL)
 - ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
 - OTHER - SO#19

- CHECK TYPE OF APPROVAL SOUGHT:**
- SIA/FINANCIAL GUARANTEE RELEASE
 - 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 (PERM.)
 - CERTIFICATE OF OCCUPANCY (TEMP.)
 - GRADING PERMIT APPROVAL
 - PAVING PERMIT APPROVAL
 - WORK ORDER APPROVAL
 - OTHER (SPECIFY) DRAINAGE REQ'MENTS

WAS A PRE-DESIGN CONFERENCE ATTENDED:
 YES
 NO
 COPY PROVIDED

DATE SUBMITTED: 12/10/2008 BY: JEFFREY G. MORTENSEN

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based upon 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 subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

CITY OF ALBUQUERQUE



November 7, 2006

Jeffrey G. Mortensen, P.E.
Jeff Mortensen & Associates
6010-B Midway Park NE
Albuquerque, NM 87109

Re: APS Edward Gonzales Elementary School Master Drainage Plan Revision
Engineer's Stamp dated 10-26-06 (L9/D34)

Dear Mr. Mortensen,

We are in receipt of your Master Drainage Plan for subject Site. The information presented thereon addresses the issues discussed during our meeting in September of this year in a manner acceptable to this office.

Once the final design criteria have been determined, please submit a detailed Grading and Drainage plan to this office for Building Permit approval. As part of that submittal, please include specific parameters regarding the expansion of the existing pond area and a discussion of the project phasing, if any. Given that this is an improvement to and expansion of an existing APS facility, we will make every effort to expedite the review process.

If you have any questions or would like to schedule a meeting, you can contact me at 924-3990.

Sincerely,

Jeremy Hoover, P.E.
Senior Engineer
Hydrology Section
Development and Building Services

cc: file L9/D34

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov



JEFF MORTENSEN AND ASSOCIATES, INC.
 6010-B MIDWAY PARK BLVD. N.E.
 ALBUQUERQUE NEW MEXICO 87109
 ENGINEERS SURVEYORS (505) 345-4250

TRANSMITTAL

TO: CITY ENGINEER'S OFFICE
HYDROLOGY SECTION
ONE STOP

DATE: 9/12/2006

FROM: JEFF MORTENSEN

PROJECT: EDWARD GONZALES E.S.

ATTN: JEREMY HOOVER

JOB NO: 2006.181.1

XC:

FILE

VIA: Delivery Pickup Mail

WE ARE SENDING:

QTY.	DESCRIPTION	FOR
1	HYDROLOGY FILE	RETURN

REMARKS:

THANKS FOR THE LOAN OF THIS FILE AND TAKING THE TIME TO MEET WITH US
LAST WEEK.

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: EDWARD GONZALES ELEM. SCHOOL MDP ZONE ATLAS/DRNG. FILE #: L9 / D34 ~~1234~~
 DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: TRACT A & B, SOUTHWEST MESA "E" SCHOOL
 CITY ADDRESS: 554 90TH STREET SW, 87121

ENGINEERING FIRM: JEFF MORTENSEN & ASSOC., INC. CONTACT: JEFF MORTENSEN
 ADDRESS: 6010-B MIDWAY PARK BLVD. NE PHONE: (505) 345-4250
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87109

OWNER: ALBUQUERQUE PUBLIC SCHOOLS, DEPT FDC CONTACT: ROLDAN PASION
 ADDRESS: 915 OAK STREET, SE PHONE: 848-8871
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87106

ARCHITECT: MAZRIA ODEMS DZUREC CONTACT: ALEXANDER DZUREC
 ADDRESS: 607 CERILLOS ROAD, SUITE G PHONE: 505-988-5309
 CITY, STATE: SANTA FE, NM ZIP CODE: 87501

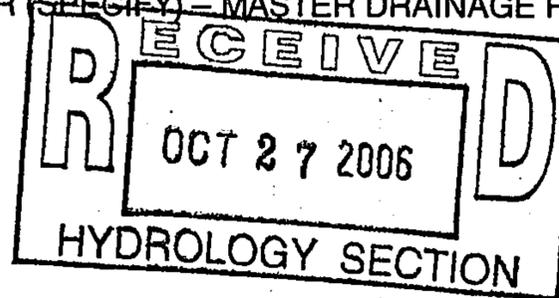
SURVEYOR: JEFF MORTENSEN & ASSOC., INC. (NMPS 11184) CONTACT: CHUCK CALA
 ADDRESS: 6010-B MIDWAY PARK BLVD. NE PHONE: (505) 345-4250
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87109

CONTRACTOR: FAMCO CONTACT: ARCHITECT
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

- TYPE OF SUBMITTAL:**
- DRAINAGE REPORT
 - DRAINAGE PLAN 1ST SUBMITTAL, **REQUIRES TCL or equal**
 - DRAINAGE PLAN RESUBMITTAL
 - CONCEPTUAL GRADING & DRAINAGE PLAN
 - GRADING PLAN
 - EROSION CONTROL PLAN
 - ENGINEER'S CERTIFICATION (HYDROLOGY)
 - CLOMR/LOMR
 - TRAFFIC CIRCULATION LAYOUT (TCL)
 - ENGINEER'S CERTIFICATION (TCL)
 - ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
 - OTHER - MASTER DRAINAGE PLAN

- CHECK TYPE OF APPROVAL SOUGHT:**
- SIA/FINANCIAL GUARANTEE RELEASE
 - 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 (PERM.)
 - CERTIFICATE OF OCCUPANCY (TEMP.)
 - GRADING PERMIT APPROVAL
 - PAVING PERMIT APPROVAL
 - WORK ORDER APPROVAL
 - OTHER (SPECIFY) - MASTER DRAINAGE PLAN

WAS A PRE-DESIGN CONFERENCE ATTENDED:
 YES
 NO
 COPY PROVIDED



DATE SUBMITTED: 10-27-2006 BY: JEFFREY G. MORTENSEN
 XC: DAVID RITCHEY, STAFF ARCHITECT, FDC/APS, NEW SOUTHWEST ELEMENTARY SCHOOL (NORTH PARCEL)
 Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based upon 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 subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

CITY OF ALBUQUERQUE
DEVELOPMENT & BUILDING SERVICES CENTER
PLANNING DEPARTMENT/HYDROLOGY SECTION

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NUMBER: L-9/D-34 DATE: 09-6-2006
CROSS REFERENCE NUMBERS: EPC _____ DRB _____ DRC _____
SUBJECT: EDWARD GONZALES (L9/D 34) AND NEW SOUTHWEST ELEMENTARY SCHOOLS
STREET ADDRESS: 554 90th Street SW (EDWARD GONZALES)
SUBDIVISION NAME: TRACTS A & B, SOUTHWEST MESA "E" SCHOOL, LANDS OF APS

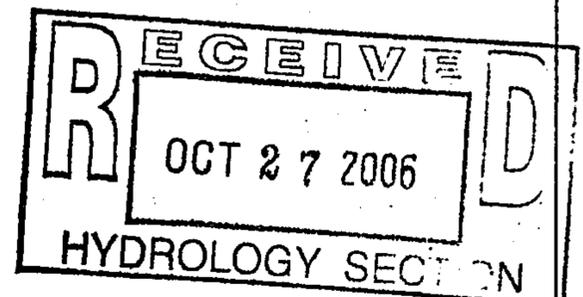
TYPE OF APPROVAL

- PRELIMINARY & FINAL PLAT
 BUILDING PERMIT
 GRADING PERMIT
 SITE DEVELOPMENT PLAN FOR SUBDIVISION
 OTHER WORK ORDER: MASTER DRAINAGE PLAN

<u>ATTENDEE:</u>	<u>ORGANIZATION:</u>	<u>PHONE:</u>
JEFF MORTENSEN	JMA	345-4250
FRED J. AGUIRRE	JMA	345-4250
BRAD BINGHAM	HYDROLOGY	924-3986
JEREMY HOOVER	HYDROLOGY	924-3990

FINDINGS:

- 1) AN APPROVED MASTER DRAINAGE PLAN/REPORT PER THE DPM WILL BE REQUIRED TO SUPPORT THE FOLLOWING:
 - a. DRAINAGE MASTER PLAN FOR ENTIRE SITE (BOTH SCHOOL SITES)
 - b. BUILDING PERMIT FOR EDWARD GONZALES PHASE 2
 - c. WORK ORDER PLANS FOR EUCARIZ SW (HALF-WIDTH PAVING)
 - d. CONCEPT FOR DEVELOPING THE NORTH HALF OF THE SITE AS A NEW ELEMENTARY SCHOOL
- 2) THE MASTER DRAINAGE PLAN WILL NEED TO ADDRESS THE FOLLOWING:
 - a. EXISTING CONDITIONS FOR THE EDWARD GONZALES SITE (L9/D 34)
 - b. DRAINAGE INFRASTRUCTURE FOR THE NEW ELEMENTARY SCHOOL ON THE NORTH PORTION OF THE APS PROPERTY (DOUBLE "C" STORM INLET IN SOUTH CURB LINE OF EUCARIZ)
 - c. WORK ORDER PLANS FOR SOUTH HALF OF EUCARIZ
 - d. DRAINAGE CRITERIA (ALLOWABLE DISCHARGE, METHOD OF DISCHARGE, ETC.) FOR THE NEW ELEMENTARY SCHOOL
 - e. IDENTIFY DRAINAGE DEFICIENCIES AND CORRECTIONS FOR THE EXISTING EDWARD GONZALES SITE
- 3) THE ALLOWABLE DISCHARGE FOR THE SUBJECT 25 ACRE SITE IS 93 CFS (3.2 CFS/ACRE).
- 4) INCLUDE A DOUBLE "C" INLET WITH THE CONSTRUCTION OF EUCARIZ HALF STREET IMPROVEMENTS TO PICK-UP BYPASS RUNOFF FROM UPSTREAM (FROM THE WEST).
- 5) DISCHARGE THE FUTURE SW ELEMENTARY SCHOOL 10-YR STORM DEVELOPED RUNOFF DIRECTLY INTO THE 86TH STREET PUBLIC STORM DRAIN; DETAIN RUNOFF AS NECESSARY.
- 6) ULTIMATE OUTFALL FOR THE SITE IS AMAFCA'S TOWER PARK POND, LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF 86TH STREET SW AND TOWER ROAD SW, IMMEDIATELY DOWNSTREAM OF THE SITE.
- 7) THE NEED FOR A REPLAT WAS NOT CLEAR; THE NEW ELEMENTARY SCHOOL SITE WILL PROBABLY OVERLAP THE EXISTING LOT LINE SEPARATING TRACTS A AND B.



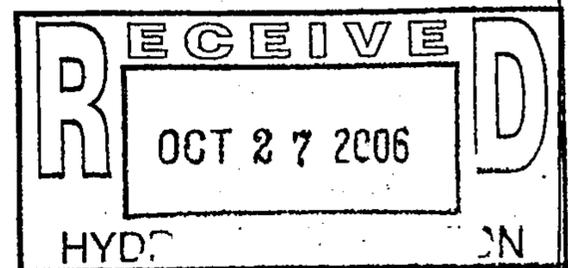
2006.181.1
PRE-DESIGN CONFERENCE RECAP
SEPTEMBER 06, 2006
PAGE 2

- 8) FINANCIAL GUARANTEES WILL NOT BE REQUIRED FOR THE PROPOSED EUCARIZ HALF-WIDTH PAVING AND STORM DRAIN IMPROVEMENTS. THE BUILDING PERMIT'S CERTIFICATE OF OCCUPANCY (CO) WILL BE USED TO GUARANTEE COMPLIANCE FOR THESE OFFSITE PUBLIC IMPROVEMENTS.

THE UNDERSIGNED AGREE THAT THE ABOVE FINDINGS ARE SUMMARIZED ACCURATELY AND ARE ONLY SUBJECT TO CHANGE IF FURTHER INVESTIGATION REVEALS THAT THE FINDINGS ARE NOT REASONABLE OR THAT THEY ARE BASED UPON INACCURATE INFORMATION.

SIGNED: <u>Bradley D. Bigham</u>	SIGNED: <u>[Signature]</u>
TITLE: <u>City Hydrologist</u>	TITLE: _____
DATE: <u>9-12-06</u>	DATE: <u>9-12-06</u>

NOTE: PLEASE PROVIDE A COPY OF THIS RECAP WITH EACH DRAINAGE SUBMITTAL



CITY OF ALBUQUERQUE



December 20, 2007

Jeff G. Mortensen, P.E.
High Mesa Consulting Group
6010-B Midway Park Blvd NE
Albuquerque, NM 87109

**Re: Edward Gonzales Elementary School Ph. I, 554 90th Street SW,
Approval of 60-Day Temporary Certificate of Occupancy (C.O.)
(L-09/D034)**

Based upon the information provided in e-mail received 12/19/2007, the above referenced certification is approved for release of 60-day Temporary Certificate of Occupancy by Hydrology.

P.O. Box 1293

Upon final Engineer Certification of project site, please resubmit an updated Certification for Permanent C.O.

Albuquerque

If you have any questions, you can contact me at 924-3982.

Sincerely,

Timothy Sims
Plan Checker

Development and Building Services

New Mexico 87103

www.cabq.gov

C: CO Clerk
File
Bradley L. Bingham

ms, Timothy E.

From: Bingham, Brad L.
 Sent: Wednesday, December 19, 2007 5:11 PM
 To: 'Jeffrey G. Mortensen'
 C: Sims, Timothy E.
 Subject: RE: EDWARD GONZALES SCHOOL

Is fair to me for a "stocking" CO. I think we can work with you on this

From: Jeffrey G. Mortensen [mailto:JMortensen@highmesacg.com]
 Sent: Wednesday, December 19, 2007 4:48 PM
 To: Bingham, Brad L.
 Subject: EDWARD GONZALES SCHOOL

1,
 File # L9/D34.

Currently, there is a building permit issued for Phase 2. APS wants to move furniture, etc. in over the Holidays and is looking for a Ten Morey Walker from Santa Fe was the engineer who did the Plan for permit.

CG did plans for correcting the phase 1 work as well as addressing the runoff from the "temporary" portable park. The Phase 1 corrective work is in progress and intended to be complete prior to requesting Permanent CO. All that lacks at present is finished grading pond and future landscaped areas. A portion of the work has been checked and I plan to check the rest on Monday. We are on the SO #19 "Green Tag", but that work is complete, also.

It's the question:

Can APS get a Temp CO based upon a cert submitted by Walker for the Phase 2 Building Permit G&D? I am hopeful that the Phase 1 corrective work can be a condition for Permanent CO and not for Temp. Please confirm or dispute my preferred approach. Give me a chance to discuss.

Thanks,



Jeffrey G. Mortensen, P.E.
 President

1000-B Midway Park Blvd. NE . Phone: 505.345.4250
 Albuquerque, NM 87109 Fax: 505.345.4254
 www.highmesacg.com jmortensen@highmesacg.com

→ TODAY TENT. |

CITY OF ALBUQUERQUE



December 19, 2006

Morey E. Walker, P.E.
Walker Engineering
905 Camino Sierra Vista
Santa Fe, NM 87501

Re: Albuquerque Schools E-School, Engineer's Stamp dated 10-19-06 (L9/D34)

Dear Mr. Walker,

Based upon the information provided in your submittal received on December 14, 2006 as well as the Master Plan revision performed by Jeff Mortensen & Associates, 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.

It is understood that this is only a phase of the construction renovations to the school and will be followed by a reconfiguration of the existing pond and improvements to the existing sidewalk culverts. This work will be performed under separate Grading and SO-19 permits. However prior to Certificate of Occupancy release, completion and acceptance of that work as well as Engineer Certification per the DPM checklist will be required.

This project will also require a National Pollutant Discharge Elimination System (NPDES) permit. Inquiries regarding this permit should be directed to Sertil Kandar at 768-3645.

If you have any other questions or need additional information, feel free to contact me at 924-3990.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeremy Hoover".

Jeremy Hoover, P.E.
Senior Engineer
Hydrology Section
Development and Building Services

cc: file L9/D34

Sertil Kandar, DMD Storm Drain Maintenance
Alexander Dzurec, Mazira Odems Dzurec Architecture, Inc. (fax)
Jeff Mortensen, P.E., Jeff Mortensen & Associates, Inc. (fax)

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(Rev. 12/05)

PROJECT TITLE: Edward Gonzales Es. ZONE MAP/DRG. FILE # L-9/D34
DRB#: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: Tract A of tracts A&B SW Mesa of APS Cont. 18
CITY ADDRESS: 554 90th St. SE Albuquerque 87121

ENGINEERING FIRM: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

OWNER: Albuquerque Public Schools
ADDRESS: 915 Oak St. SE
CITY, STATE: ABQ, NM 87106

CONTACT: Roldan Pasion
PHONE: 849-8871
ZIP CODE: _____

ARCHITECT: Mazria Odems Dzuric
ADDRESS: 607 Cerrillos Rd. Suite G
CITY, STATE: Santa Fe, NM 87505

CONTACT: Alexander Dzuric
PHONE: 505-988-5309
ZIP CODE: _____

SURVEYOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

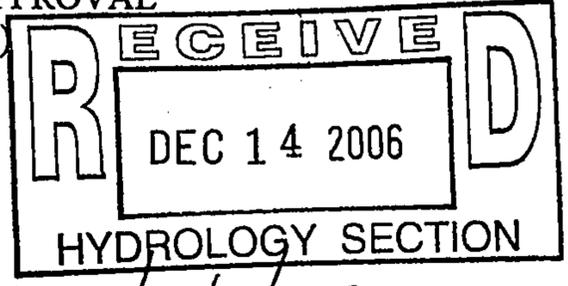
CONTRACTOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
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: Alexander Dzuric DATE: 12/14/06

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.



MEMO

PROJECT: Edward Gonzales Elementary School
TO: Jeremy Hoover, Senior Engineer – City of Albuquerque
FROM: Alexander Dzurec
DATE: 12-14-06
CC:

REMARKS: This memo is to address questions you had regarding the new catch basin we have designed for the central playground area. It appears that the original grading for this area was done incorrectly. The staff and janitors of Edward Gonzales have noticed ponding in this area after heavy rain storms. I have performed a visual inspection of the area in question and determined that indeed the sidewalk is sloping towards the pond area (see fig.1). In an attempt to remedy the situation, APS has drilled weep holes in the adjacent curb (see fig. 2). However, wood chips from the adjacent playground equipment areas continually obstruct the weep holes. Upon consultation with Morey Walker, our civil engineer from the original phase of construction, we have determined that a new catch basin in this area would be the best way to effectively deal with the standing water conditions. Feel free to contact me with any questions.

Sincerely,

A handwritten signature in black ink, appearing to be "Alexander Dzurec", written over a horizontal line.

Alexander Dzurec

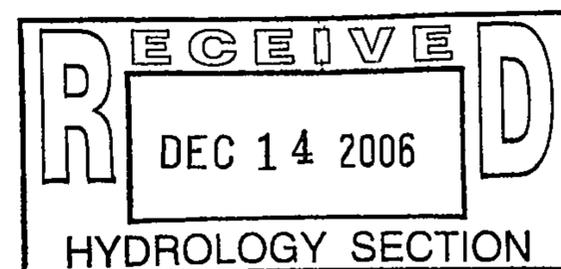
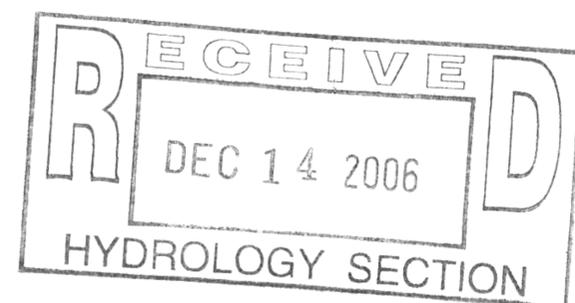




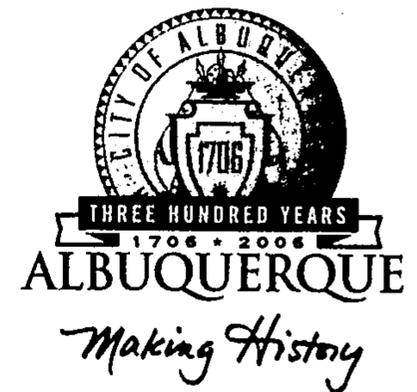
Figure 1. The sidewalk slopes down to a low point rather than high point as originally designed.



Figure 2. APS has drilled weep holes in the adjacent curb to drain the low point. Dirt and wood chips continually obstruct the weep holes.



CITY OF ALBUQUERQUE



August 10, 2004

Mr. Morey Walker, P.E.
WALKER ENGINEERING
905 Camino Sierra Vista
Santa Fe, New Mexico 87505

Re: APS E-SCHOOL

554 90th St. SW

Approval of Permanent Certificate of Occupancy (C.O.)

Engineer's Stamp dated 07/14/2003 (L-9/D034)

Certification dated 07/30//2004

P.O. Box 1293

Dear Morey,

Albuquerque

Based upon the information provided in your submittal received 08/10/2004, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

New Mexico 87103

If you have any questions, you can contact me at 924-3982

Sincerely,

Arlene V. Portillo
Plan Checker, Planning Dept. - Hydrology
Development and Building Services

APW

www.cabq.gov

C: Phyllis Villanueva
File

L-9/034

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

PROJECT TITLE: APS E-School ZONE MAP: _____
DRB#: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: Tracts 18-22, Town of Aterisco Grant, Unit No. Two
CITY ADDRESS: 554 90th S. SW, Albuquerque,

ENGINEERING FIRM: Walker Engineering CONTACT: Morey Walker
ADDRESS: 905 Camino Sierra Vista PHONE: 505-820-7990
CITY, STATE: Santa Fe, New Mexico ZIP CODE: 87505

OWNER: Albuquerque Public School CONTACT: Bob Bedder
ADDRESS: 915 Oak Street PHONE: 242-5865 x 14
CITY, STATE: Albuquerque, NM ZIP CODE: 87106

ARCHITECT: Mazria, Riskins, & Odems, Inc CONTACT: Joe Chipman
ADDRESS: 607 Cerrillos Road, Suite G PHONE: 505-988-5309
CITY, STATE: Santa Fe, NM ZIP CODE: 87505

SURVEYOR: Jeff Mortensen & Assc CONTACT: Jeff Mortensen
ADDRESS: 6010-B Midway Park Blvd, NE PHONE: 345-4250
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

CONTRACTOR: FAMCO, Inc CONTACT: Ed Winebrenner
ADDRESS: P.O. Box 14658 PHONE: 821-5790
CITY, STATE: Albuquerque, NM ZIP CODE: 87191

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'S CERT (TCL)
- ENGINEER'S CERT (DRB SITE PLAN)
- OTHER

CHECK TYPE OF APPROVAL SOUGHT:

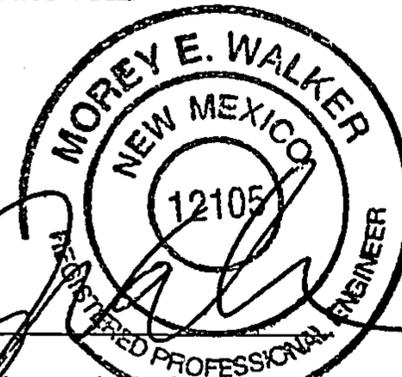
- SIA/FINANCIAL GUARANTEE RELEASE
- PRELIMINARY PLAT APPROVAL
- S. DEV. PLAN FOR SUB'D APPROVAL
- S. DEV. FOR BLDG. PERMIT APPROVAL
- SECTOR PLAN APPROVAL
- FINAL PLAT APPROVAL
- FOUNDATION PERMIT APPROVAL
- BUILDING PERMIT APPROVAL
- CERTIFICATE OF OCCUPANCY
- GRADING PERMIT APPROVAL
- PAVING PERMIT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

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- YES
- NO
- COPY PROVIDED

DATE SUBMITTED: 8/10/04

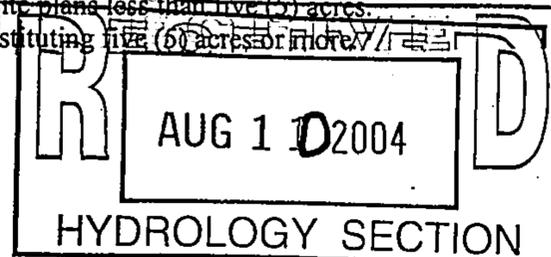
BY: [Signature]



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 defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

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3. **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.

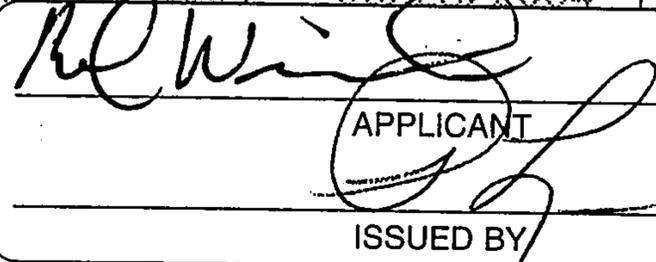
SO-19 approved as per Ed Elwell 8/10/04



Ed Elwell
Fax

291-6216

CITY OF ALBUQUERQUE PERMIT FOR EXCAVATION, CONSTRUCTION AND BARRICADING

CONTRACTOR LICENSE ADDRESS	FAMCO 6A03 P.O. BOX 14568 ALBUQUERQUE, NM 87191 PH: 821-5790	PERMIT NUMBER	2083241	
SITE	554 90TH ST SW	PROJECT NUMBER	2641	
PERMIT AND DETOUR PLAN COMMENTS	(2) SD#19, LETTER ON FILE 8/29/03 \$25.00 EA.	PERMIT ISSUE DATE	05/25/2004	
		BARRICADED BY	BLUE STAKE	
		PAVING BY	CON	
		EXCAVATION	443008-5810000	42.00 EX
		SIDEWALK	443012-5810000	0.00 SW
		DRIVEPAD	443011-5810000	0.00 DP
		CURB/GUTTER	443010-5810000	0.00 CG
		BARRICADING	443009-5810000	50.00 BR
		RESTORATION	443017-5810000	0.00 RS
		TOTAL FEE		92.00
START DATE	COMPLETION DATE	PERMIT EXPIRES	INSURANCE EXPIRES	BOND EXPIRES
05/24/2004	05/28/2004	05/28/2004	05/11/2004	12/31/2004
City of Albuquerque Treasury Division				
 APPLICANT		VOID UNTIL VALIDATED BY CITY TREASURER 05/26/2004 10:14AM LOG: ANNY WSA 608 TRNS# 0015 RECEIPT# 00023995-00023995 PERMIT# 2083241 TRSDMM Trans Amt \$92.00 Excavation \$42.00 Barricade \$50.00		
ISSUED BY				

PERMITTEE AGREES TO ASSUME ALL LIABILITY, INCLUDING INDEMNIFYING, DEFENDING AND HOLDING THE CITY HARMLESS FOR ALL DAMAGES OR INJURY TO PERSONS OR PROPERTY RESULTING FROM PERMITTEE'S EXCAVATION AND/OR BARRICADE WORK. THIS PERMIT IS GRANTED IN CONSIDERATION OF PERMITTEE'S ASSUMING SAID LIABILITY AND IS APPROVED FOR THE WORK DESCRIBED ABOVE. IN ACCORDANCE WITH SECTION 6-5-2-1 ET SEQ. R.O. (1994), PERMITTEE AGREES TO COMPLY WITH ALL APPLICABLE CITY RULES, REGULATIONS AND ORDINANCES, AND WHEN EXCAVATING, TO PATCH OR PLATE PRIOR TO OPENING TO TRAFFIC IN ACCORDANCE WITH APPLICABLE RULES, REGULATIONS AND ORDINANCES. PLEASE CALL 924-3400 FOR ADDITIONAL INFORMATION.

CAUTION: PROTECT UNDERGROUND UTILITIES CALL 260-1990, 48 HOURS IN ADVANCE FOR LINE STAKING
Thank You

CITY OF ALBUQUERQUE



July 20, 2006

Morey E. Walker, P.E.
Walker Engineering
905 Camino Sierra Vista
Santa Fe, NM 87501

Re: Albuquerque Schools E-School
Engineer's Stamp dated 5-26-06 (L9/D34)

Dear Mr. Walker,

Upon review of the information provided in your submittal dated July 14, 2006, there are several issues that must be addressed prior to approval for Building Permit. Those issues are detailed below.

1. Drainage calculations must be provided. Evidence must be given to show that the existing pond has sufficient capacity to handle the flow increase.
2. The existing and proposed runoff flow vectors must be indicated.
3. You must include a narrative describing the existing and proposed conditions.
4. A reference to an existing benchmark must be provided to indicate the basis of the elevations.
5. All rim and invert elevations as well as existing and proposed pipe sizes and slopes must be shown. This will make the project constructible.
6. All finished floor elevations must be indicated.
7. Sufficient spot elevations must be provided so as to better indicate the flow conditions. This is specifically required where hardscaping (sidewalk, paving etc.) is to be constructed or modified from the existing conditions.

P.O. Box 1293

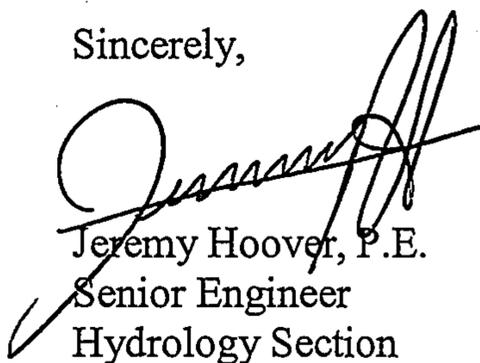
Albuquerque

New Mexico 87103

www.cabq.gov

Given the time constraints and the fact that this project involves an existing public school, we will expedite the review process of the revised submittal. If you have any questions, you can contact me at 924-3990.

Sincerely,


Jeremy Hoover, P.E.
Senior Engineer
Hydrology Section
Development and Building Services

cc: file L9/D34

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 12/2005)

X PROJECT TITLE: EDWARD GONZALES ELEMENTARY SCHOOL ^{Add'n} ZONE MAP# L-9/D34
DRB#: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: _____
CITY ADDRESS: _____

X ENGINEERING FIRM: WALKER ENGINEERING CONTACT: _____
ADDRESS: 905 CAMINO SIERRA VISTA PHONE: 505-820-7990
CITY, STATE: SANTA FE, NM 87501 ZIP CODE: 87501

X OWNER: ALBUQUERQUE PUBLIC SCHOOLS CONTACT: _____
ADDRESS: 915 OAK ST. SE PHONE: 505-848-8871
CITY, STATE: ALBUQUERQUE NM ZIP CODE: 87106

ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

X SURVEYOR: JEFF MORTENSEN & ASSOCIATES CONTACT: _____
ADDRESS: GOLD MIDWAY PARK BLVD. NE PHONE: 505-345-4250
CITY, STATE: ALBUQUERQUE ZIP CODE: 87109

CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

TYPE OF SUBMITTAL:

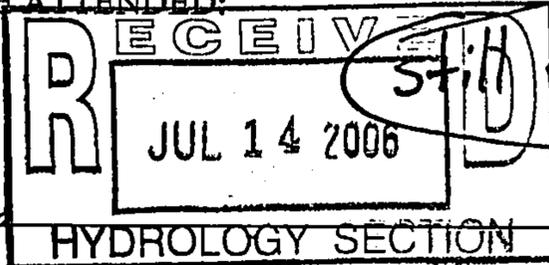
- DRAINAGE REPORT
- DRAINAGE PLAN 1st SUBMITTAL
- DRAINAGE PLAN RESUBMITTAL
- CONCEPTUAL G & D PLAN
- GRADING PLAN
- EROSION CONTROL PLAN
- ENGINEER'S CERT (HYDROLOGY)
- CLOMR/LOMR
- TRAFFIC CIRCULATION LAYOUT
- ENGINEER'S CERT (TCL)
- ENGINEER'S CERT (DRB SITE PLAN)
- OTHER (SPECIFY)

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



still need \$50 review fee

DATE SUBMITTED: 7/14/06

BY: *[Signature]*

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 defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

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3. **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.

Albuquerque Environmental School

City of Albuquerque

Drainage Study

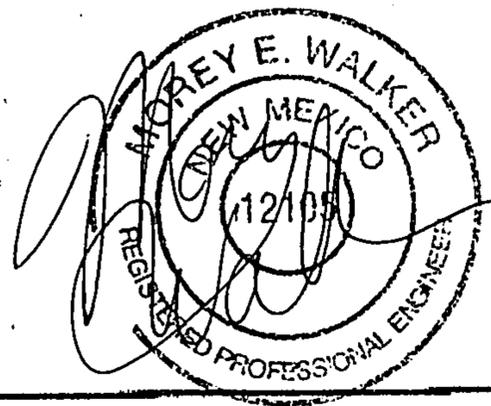
August 2003

By

W • E Walker Engineering

905 Camino Sierra Vista
Santa Fe, NM 87501

civil@walkerengineering.net

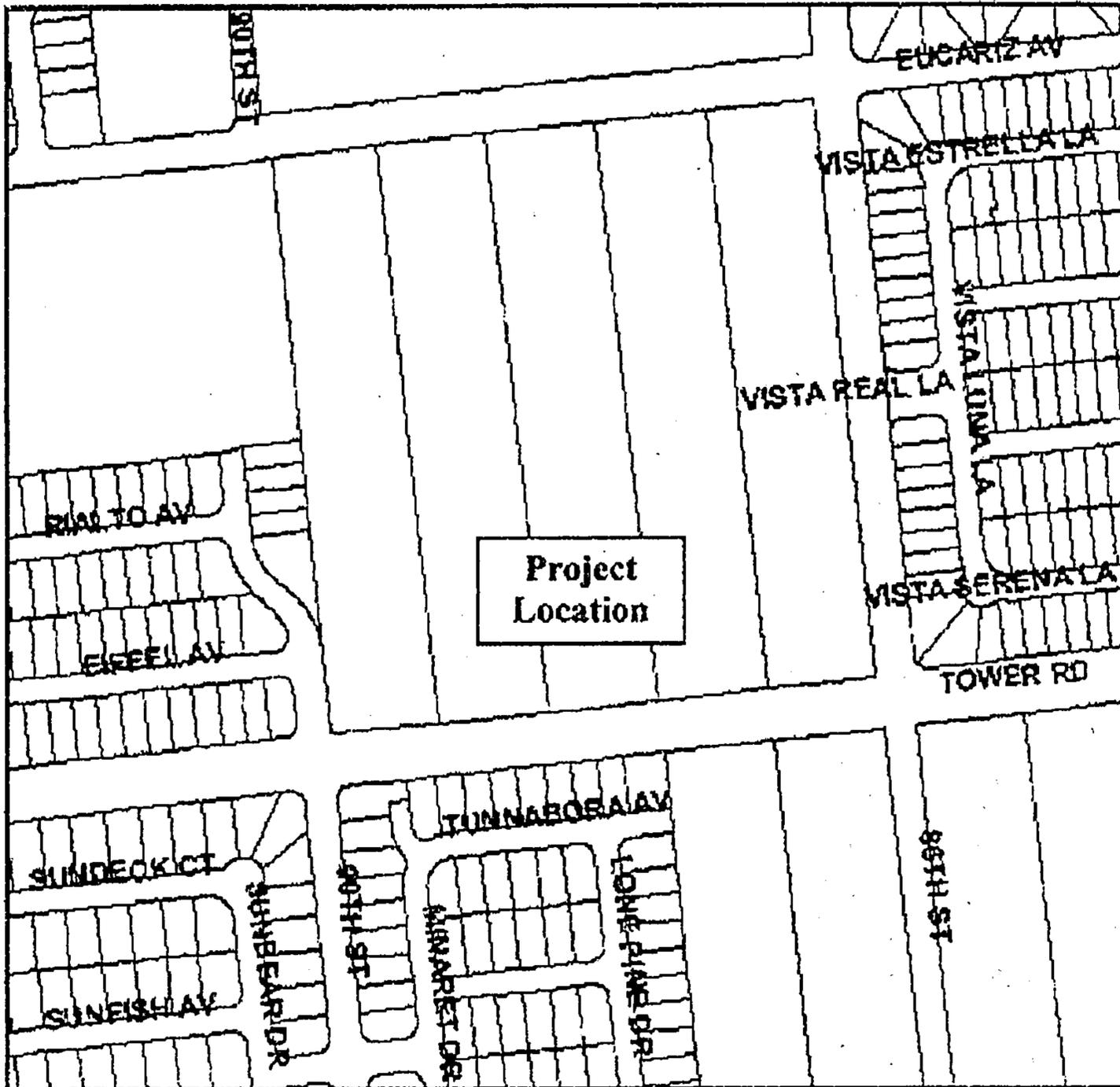


Albuquerque Environmental School

Drainage Study

Table of Contents

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Executive Summary	2
Drainage Areas	3
Discharge Calculations	4-5
Curb Cut Capacity Calculations	6
Road Capacity Calculations	7
Drain and Culvert Capacity Calculations	8-10



Albuquerque Environmental School
Zone Atlas Page L-9

Rectangular Channel Analysis & Design
Open Channel - Uniform flow

Worksheet Name: 24" Curb Cut

Comment: 24" Curb Cut

Solve For Discharge

Given Input Data:

Bottom Width.....	2.00 ft
Manning's n.....	0.013
Channel Slope....	0.0100 ft/ft
Depth.....	0.50 ft

Computed Results:

Discharge.....	5.50 cfs
Velocity.....	5.50 fps
Flow Area.....	1.00 sf
Flow Top Width...	2.00 ft
Wetted Perimeter.	3.00 ft
Critical Depth...	0.62 ft
Critical Slope...	0.0055 ft/ft
Froude Number....	1.37 (flow is Supercritical)

Rectangular Channel Analysis & Design
Open Channel - Uniform flow

Worksheet Name:

Comment: Road Capacity

Solve For Depth

Given Input Data:

Bottom Width.....	25.00 ft
Manning's n.....	0.013
Channel Slope.....	0.0100 ft/ft
Discharge.....	13.90 cfs

Computed Results:

Depth.....	0.16 ft
Velocity.....	3.39 fps
Flow Area.....	4.10 sf
Flow Top Width...	25.00 ft
Wetted Perimeter.	25.33 ft
Critical Depth...	0.21 ft
Critical Slope...	0.0042 ft/ft
Froude Number....	1.48 (flow is Supercritical)

02184.TXT

Rectangular Channel Analysis & Design
open channel - uniform flow

Worksheet Name: APS E-SCHOOL

Description: 24" SIDEWALK CULVERT

Solve For Discharge

Given Constant Data;

Bottom width.....	2.00
Mannings 'n'.....	0.013
channel slope.....	0.0200
channel depth.....	0.50

COMPUTED COMPUTED

Bottom width ft	Mannings 'n'	Channel Slope ft/ft	Channel Depth ft	Channel Discharge cfs	Channel velocity fps
2.00	0.013	0.0200	0.50	7.77	7.77

Open Channel Flow module, Version 3.12 (c)

Hacstad Methods, Inc. * 37 Brookside Rd * Waterbury, Ct 06708

WinStorm (STORM DRAIN DESIGN)
. 25, 2002

Version 3.05, Jan

Run @ 8/4/2003 11

:04:11 AM

PROJECT NAME : E-School
JOB NUMBER : 02-184
PROJECT DESCRIPTION : Pond Catch Basin

DESIGN FREQUENCY : 100 Years
MEASUREMENT UNITS: ENGLISH

OUTPUT FOR DESIGN FREQUENCY of: 100 Years

Runoff Computation for Design Frequency.

ID	C Value	Area (acre)	Tc (min)	Tc Used (min)	Intensity (in/hr)	Supply Q (cfs)	Total Q (cfs)
A-2	0.0	0.00	10.00	0.00	0.00	13.900	13.900

Sag Inlets Configuration Data.

Inlet ID	Inlet Type	Inlet Length/ Perim. (ft)	Grate Area (sf)	Left-Slope Long Trans (%)	Right-Slope Long Trans (%)	Gutter n	Depth DeprW (ft)	Allowed Depth (ft)
A-2	Grate	6.00	0.98	0.50	2.00	0.014	n/a	1.00

Sag Inlets Computation Data.

Inlet ID	Inlet Type	Inlet Length	Grate Area	Total Q	Inlet Depth	Total Pounded W
----------	------------	--------------	------------	---------	-------------	-----------------

idth ID	Type	Perim (ft)	Area (sf)	Capacity (cfs)	Head (ft)	Left (ft)	R (ft)
A-2	Grate	n/a	6.00	0.98	13.900	5.240	7.031
16.15							16.15

Cumulative Junction Discharge Computations

Node I.D.	Node Type	Weighted C-Value	Cumulat. Dr. Area (acres)	Cumulat. Tc (min)	Intens. (in/hr)	User Supply Q (cfs)	Additional Q in Node (cfs)
A-2	Grate	0.000	0.00	0.00	0.00	13.900	0.00
13.900							
OUT	Outlet	0.000	0.00	0.00	0.00	13.900	0.00
13.900							

Conveyance Configuration Data

Run#	Node I.D.	Flowline Elev. US	Flowline Elev. DS	Shape #	Span (ft)	Rise (ft)	Length (ft)	Slop (%)
2	A-2	5100.50	5098.50	Circ 1	0.00	1.00	82.00	2.44
44	0.011							

Conveyance Hydraulic Computations. Tailwater = 0.000 (ft)

Hydraulic GradeLine Depth Velocity
Junc

Run#	US Elev	DS Elev	Fr.Slope	Unif.	Actual	Unif.	Actual	Q	C
ap	Loss	(ft)	(%)	(ft)	(ft)	(f/s)	(f/s)	(cfs)	(c
fs)	(ft)								
2	5108.43	5099.50	10.895	1.00	1.00	17.70	17.70	13.90	6
.58	0.000								
-----END-----									
=====									

NORMAL TERMINATION OF WINSTORM.

Warning Messages for current project:

Runoff Frequency of: 100 Years
Capacity of sag inlet exceeded at inlet Id- A-2
Tailwater set to uniform depth elevation = 5099.50(ft)
Run# 2 Insufficient capacity.
Upstream hydraulic gradeline exceeds critical elevation at node Id= A-2

L-9/D34

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

PROJECT TITLE: APS E-School ZONE MAP:
DRB#: EPC#: WORK ORDER#:

LEGAL DESCRIPTION: Tracts 18-22, Town of Aterisco Grant, Unit No. Two
CITY ADDRESS: 554 90th S. SW, Albuquerque,

ENGINEERING FIRM: Walker Engineering CONTACT: Morey Walker
ADDRESS: 905 Camino Sierra Vista PHONE: 505-820-7990
CITY, STATE: Santa Fe, New Mexico ZIP CODE: 87505

OWNER: Albuquerque Public School CONTACT: Bob Bedder
ADDRESS: 915 Oak Street PHONE: 242-5865 x 14
CITY, STATE: Albuquerque, NM ZIP CODE: 87106

ARCHITECT: Mazria, Riskins, & Odems, Inc CONTACT: Joe Chipman
ADDRESS: 607 Cerrillos Road, Suite G PHONE: 505-988-5309
CITY, STATE: Santa Fe, NM ZIP CODE: 87505

SURVEYOR: Jeff Mortensen & Assc CONTACT: Jeff Mortensen
ADDRESS: 6010-B Midway Park Blvd, NE PHONE: 345-4250
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

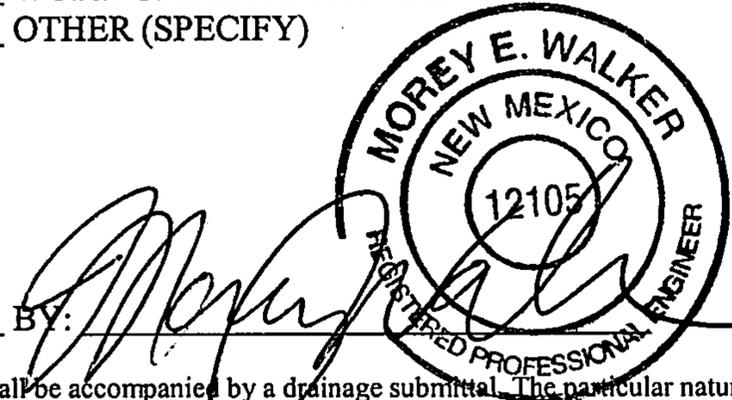
CONTRACTOR: FAMCO, Inc CONTACT: Ed Winebrenner
ADDRESS: P.O. Box 14658 PHONE: 821-5790
CITY, STATE: Albuquerque, NM ZIP CODE: 87191

- TYPE OF SUBMITTAL:
DRAINAGE REPORT
DRAINAGE PLAN 1st SUBMITTAL
DRAINAGE PLAN RESUBMITTAL
CONCEPTUAL G & D PLAN
GRADING PLAN
EROSION CONTROL PLAN
X ENGINEER'S CERT (HYDROLOGY)
CLOMR/LOMR
TRAFFIC CIRCULATION LAYOUT
ENGINEER'S CERT (TCL)
ENGINEER'S CERT (DRB SITE PLAN)
OTHER

- 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
X CERTIFICATE OF OCCUPANCY
GRADING PERMIT APPROVAL
PAVING PERMIT APPROVAL
WORK ORDER APPROVAL
OTHER (SPECIFY)

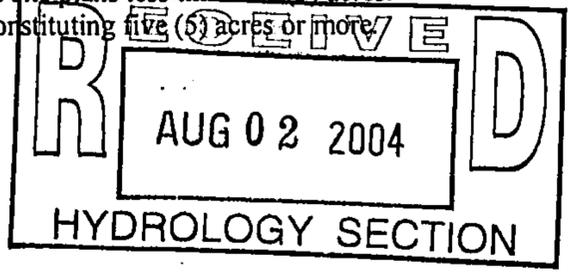
WAS A PRE-DESIGN CONFERENCE ATTENDED:
YES
X NO
COPY PROVIDED

DATE SUBMITTED: 7/30/04



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 defines 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.



8/2/04

Waiting for 2019 confirmation
from Ed Edeall.

8/3/04 Not accepted / need to paint
plate, plate facing wrong way & too
down plate.

W • E Walker Engineering

Morey Walker & Associates Engineering, Inc.

905 Camino Sierra Vista
Santa Fe, NM 87505
505-820-7990 Fax 505-820-3539

July 30, 2004

Ms. Kristal Metro
Development and Building Services
City of Albuquerque
600 2nd Street, Suite 201
Albuquerque, NM 87103

Ref: APS E-School
Engineer's Stamp dated 8-5-03

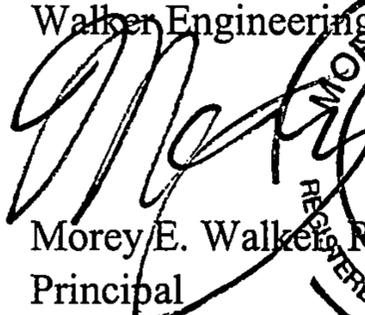
Dear Ms. Metro,

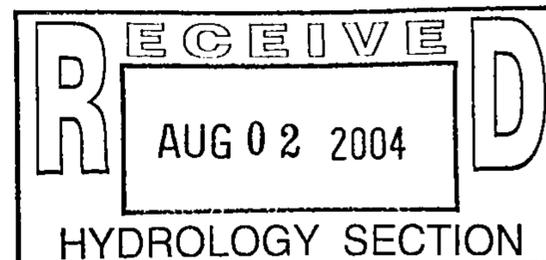
Attached are the completed engineer's certification package for the referenced project. This package includes the completed information sheet and the as-built plans with changes noted. We are requesting that the APS E-School obtain the Certificate of Occupancy from the Hydrology Department.

Therefore, based upon the as built plans and upon a site visual inspection, the APS E-School was built in substantial compliance with the drainage and grading plans as approved by the City of Albuquerque.

If you need any further information or have any questions, please do not hesitate to contact me at 820-7990. Thank you for your time and effort in this matter.

Sincerely,
Walker Engineering


Morey E. Walker, R.E.
Principal



Albuquerque Environmental School

City of Albuquerque

WAS A 12" OR 18" OR 24" DISCHARGE
PIPE ACTUALLY CONSTRUCTED?

Drainage Study

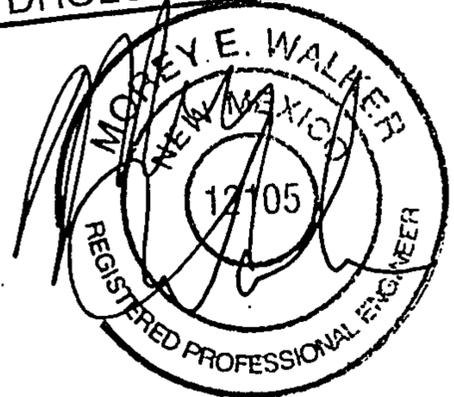
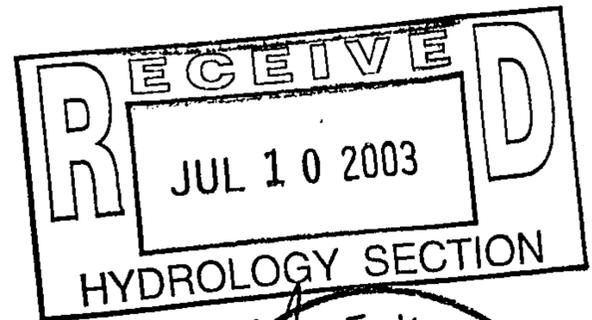
July 2003

By

W•E Walker Engineering

905 Camino Sierra Vista
Santa Fe, NM 87501

civil@walkerengineering.net

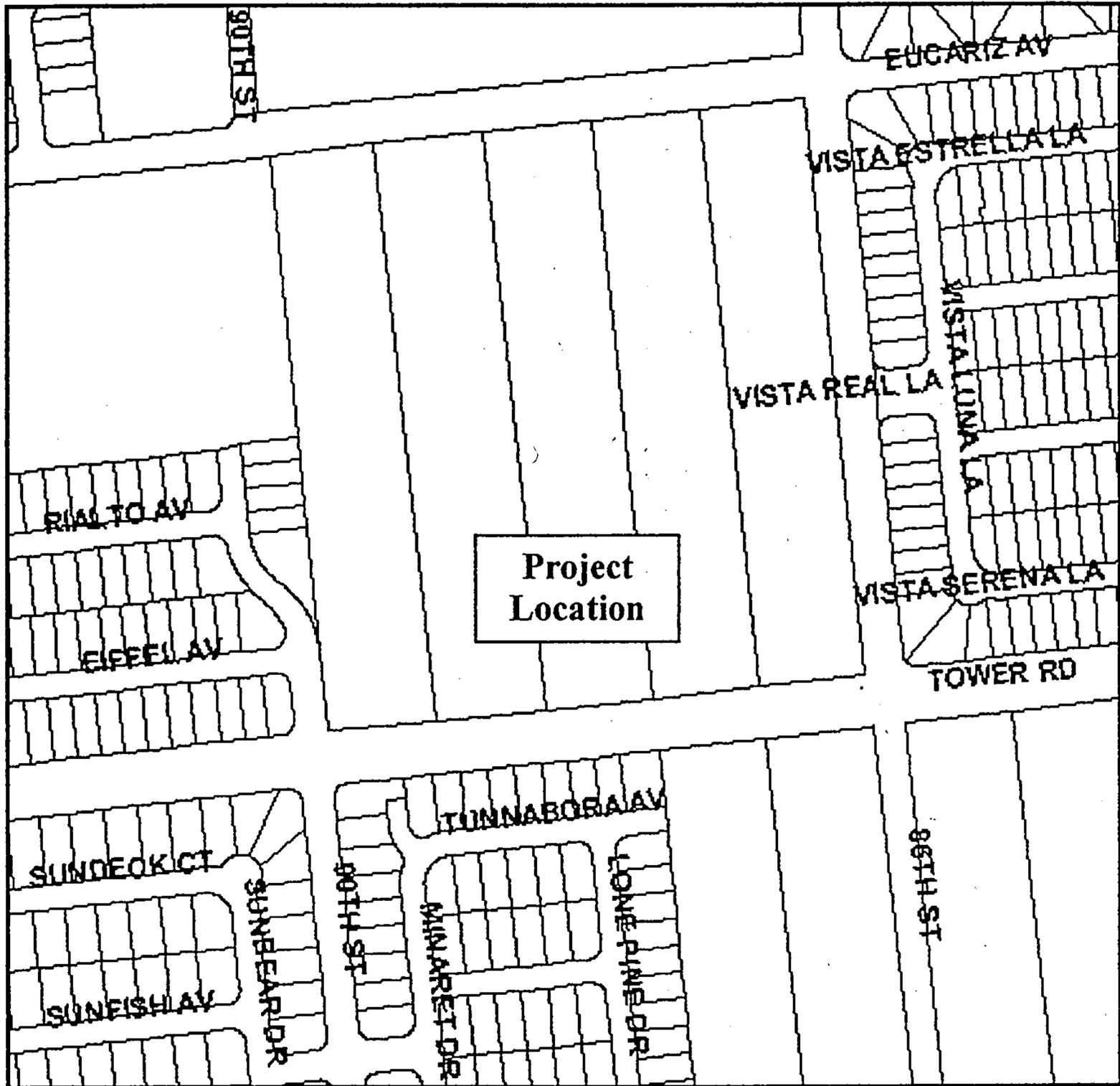


Albuquerque Environmental School

Drainage Study

Table of Contents

Zone Atlas Page	1
Executive Summary	2
Drainage Areas	3
Discharge Calculations	4-5
Curb Cut Capacity Calculations	6
Road Capacity Calculations	7
Drain and Culvert Capacity Calculations	8-10



Albuquerque Environmental School
Zone Atlas Page L-9

ALBUQUERQUE ENVIRONMENTAL SCHOOL

Introduction

The Albuquerque Environmental School is part of the Albuquerque Public School system. The school will be approximately 73,600 SF and will house 600 students and 80 staff. The school site is 25 acres +/- and is located at 86th and Tower Rd, see Zone Atlas Page L-9-Z. The infrastructure in this area is part of the SAD 222 project. The school site is bordered by the Towers subdivision to the west, Eucariz Ave. to the north, 86th St. to the east and Tower Road to the south. Currently all infrastructure is in place except for Eucariz Ave. The planned E-School will only occupy the southern half of the block described above. There are currently no plans for the northern portion of the site.

Existing Conditions

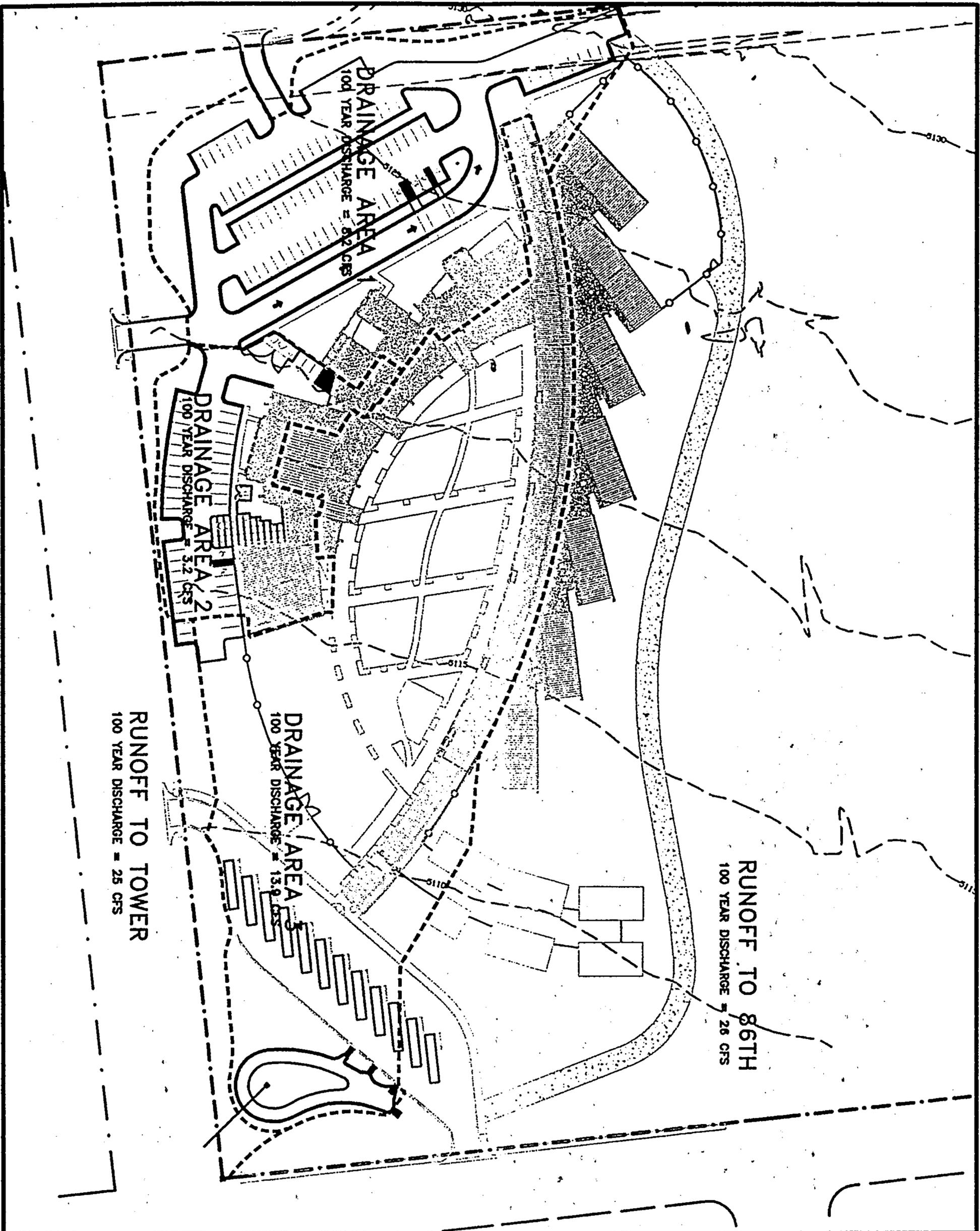
Per the SAD 222 Master Drainage report, runoff from this site (Drainage Area A6) can be handled by the storm sewers in Tower Road and no on-site ponding will be required. Per the Master Drainage Report, 93 cfs can be discharged to Tower Rd, 46 cfs from the school site can also be discharged directly to 86th st., There are no off-site flows crossing the school site.

On-site Discharge

Discharge for the School Site was calculated using Chapter 22 of the Albuquerque DPM. Total discharge from the school site is 52cfs, 13 cfs will be discharged as sheet flow to 86th st. where it will be picked up by the existing catch basins. The remainder of the runoff, 39 cfs, will flow to Tower Road. The majority of runoff will sheet flow across the on-site parking lots to the driveway cuts on the north side of Tower Road. Runoff from the eastern most parking lot will be captured in a water quality and sediment control pond and will be routed via a 24" catch basin and CMP directly to an existing catch basin in Tower Road. This pond will be 12" deep. Because a private storm drain will be tied to catch basins in the ROW, a S.O. #19 signature block has been added to the grading and drainage plan.

Summary

The proposed improvements are sufficient for routing all runoff to the public storm drains in the adjacent streets. The public storm drains have adequate capacity to handle the post-development runoff, therefore no on-site ponding will be required. The majority of the runoff is being routed to Tower Road. This allows runoff from future development on the north side of the site to flow to 86th Street, which will simplify future design.



PROJECT:	ABQ E-SCHOOL	PROJECT:	02-184	Civil Engineering • Water Resources • Traffic Engineering	
		FILE:	02-184 DRAIN	W•E	Walker Engineering
SHEET:	DRAINAGE AREAS	DATE:	2/11/03		
			PLAN SCALE:	NTS	FAX 505-820-3539

Walker Engineering

905 Camino Sierra Vista
Santa Fe, NM 87501

Discharge Calculations for the City of Albuquerque

Project : ABQ E-School
Date: 07-Jul-03

Project No. : 02-184
Lot Area: 24.98 Acres

Precipitation Zone

Zone 1 - West of the Rio Grande

Entire Site

	Area SF	Area Acres	100 Year CFS per Acre	CFS	100 Year Excess Precipitation	E x A
Pre-Development Conditions						
Site Watershed	1088155	24.98	1.29	32.22	0.44	10.99
Post-Development Conditions						
Roof	85416	1.96	4.37	8.57	1.97	3.86
Parking Lot 1	55981	1.29	4.37	5.62	1.97	2.53
Parking Lot 2	19686	0.45	4.37	1.97	1.97	0.89
Parking Lot 3	33728	0.77	4.37	3.38	1.97	1.53
Portables	15151	0.35	4.37	1.52	1.97	0.69
Courtyard Sidewalks	61999	1.42	4.37	6.22	1.97	2.80
Landscaping	30360	0.70	2.03	1.41	0.67	0.47
Natural	785834	18.04	1.29	23.27	0.44	7.94
Total	1088155	24.98		51.97		20.70

Runoff to 86th

	Area SF	Area Acres	100 Year CFS per Acre	CFS	100 Year Excess Precipitation	E x A
Post-Development Conditions						
Impervious	46669	1.07	4.37	4.68	1.97	2.11
Natural	713996	16.39	1.29	21.14	0.44	7.21
Total	760665	17.46		25.83		9.32

Runoff to Tower

	Area SF	Area Acres	100 Year CFS per Acre	CFS	100 Year Excess Precipitation	E x A
Post-Development Conditions						
Impervious	225292	5.17	4.37	22.60	1.97	10.19
Landscaping	30360	0.70	2.03	1.41	0.67	0.47
Natural	71838	1.65	1.29	2.13	0.44	0.73
Total	327490	7.52		26.14		11.38

Walker Engineering

905 Camino Sierra Vista
Santa Fe, NM 87501

Storm Drain Calculations for the City of Albuquerque

Project : ABQ E-School
Date: 07-Jul-03

Project No. : 02-184
Lot Area: 24.98 Acres

Drainage Area 1

	Area SF	Area Acres	100 Year CFS per Acre	CFS	10 Year CFS per Acre	CFS
Post-Development Conditions						
Impervious	72288	1.66	4.37	7.25	1.24	2.06
Landscaping	11830	0.27	2.03	0.55	0.22	0.06
Natural	13139	0.30	1.29	0.39	0.08	0.02
Total	97257	2.23		8.19		2.14

Description: Runoff will sheet flow across parking lot to the driveway cut. 100 year depth is less than 2".

Drainage Area 2

	Area SF	Area Acres	100 Year CFS per Acre	CFS	10 Year CFS per Acre	CFS
Post-Development Conditions						
Impervious	30634	0.70	4.37	3.07	1.24	0.87
Landscaping	2965	0.07	2.03	0.14	0.22	0.01
Natural	0	0.00	1.29	0.00	0.08	0.00
Total	33599	0.77		3.21		0.89

Description: Runoff will sheet flow across parking lot to the driveway cut. 100 year depth is less than 2".

Drainage Area 3

	Area SF	Area Acres	100 Year CFS per Acre	CFS	10 Year CFS per Acre	CFS
Post-Development Conditions						
Impervious	125405	2.88	4.37	12.58	1.24	3.57
Landscaping	15565	0.36	2.03	0.73	0.22	0.08
Natural	21392	0.49	1.29	0.63	0.08	0.04
Total	162362	3.73		13.94		3.69

Description: Three curb cut openings leading to pond with one 24" drop inlet connected by 24" CMP tied to existing catch basin in Tower Road.

24" Curb Cuts (Each)	5.5 CFS
24" Drop Inlet Capacity (Pond)	7.0 CFS
24" Pipe Capacity	22.2 CFS

Rectangular Channel Analysis & Design
Open Channel - Uniform flow

Worksheet Name: 24" Curb Cut

Comment: 24" Curb Cut

Solve For Discharge

Given Input Data:

Bottom Width.....	2.00 ft
Manning's n.....	0.013
Channel Slope....	0.0100 ft/ft
Depth.....	0.50 ft

Computed Results:

Discharge.....	5.50 cfs
Velocity.....	5.50 fps
Flow Area.....	1.00 sf
Flow Top Width...	2.00 ft
Wetted Perimeter.	3.00 ft
Critical Depth...	0.62 ft
Critical Slope...	0.0055 ft/ft
Froude Number....	1.37 (flow is Supercritical)

Rectangular Channel Analysis & Design
Open Channel - Uniform flow

Worksheet Name:

Comment: Road Capacity

Solve For Depth

Given Input Data:

Bottom Width.....	25.00 ft
Manning's n.....	0.013
Channel Slope....	0.0100 ft/ft
Discharge.....	13.90 cfs

Computed Results:

Depth.....	0.16 ft
Velocity.....	3.39 fps
Flow Area.....	4.10 sf
Flow Top Width...	25.00 ft
Wetted Perimeter.	25.33 ft
Critical Depth...	0.21 ft
Critical Slope...	0.0042 ft/ft
Froude Number....	1.48 (flow is Supercritical)

WinStorm (STORM DRAIN DESIGN)

Version 3.05, Jan. 25, 2002
Run @ 7/8/2003 10:33:58 AMPROJECT NAME : E-School
JOB NUMBER : 02-184
PROJECT DESCRIPTION : Pond Catch Basin
DESIGN FREQUENCY : 100 Years
MEASUREMENT UNITS: ENGLISHOUTPUT FOR DESIGN FREQUENCY of: 100 Years
=====Runoff Computation for Design Frequency.
=====

ID	C Value	Area (acre)	Tc (min)	Tc Used (min)	Intensity (in/hr)	Supply Q (cfs)	Total Q (cfs)
A-2	0.0	0.00	10.00	0.00	0.00	13.900	13.900

Sag Inlets Configuration Data.
=====

Inlet ID	Inlet Type	Inlet Length/ Perim. (ft)	Grate Area (sf)	Left-Slope Long Trans (%)	Right-Slope Long Trans (%)	Gutter n	Depth DeprW (ft)	Critic Elev. (ft)
A-2	Grate	8.00	1.30	0.50	2.00	0.014	n/a	5104.00

Sag Inlets Computation Data.
=====

Inlet ID	Inlet Type	Length (ft)	Grate Perim (ft)	Area (sf)	Total Q (cfs)	Inlet Capacity (cfs)	Total Head (ft)	Ponded Left (ft)	Width Right (ft)
A-2	Grate	n/a	8.00	1.30	13.900	6.987	3.955	16.15	16.15

Cumulative Junction Discharge Computations
=====

Node I.D.	Node Type	Weighted C-Value	Cumulat. Dr.Area (acres)	Cumulat. Tc (min)	Intens. (in/hr)	User Supply Q (cfs)	Additional Q in Node (cfs)	Total Disch. (cfs)
A-2	Grate	0.000	0.00	0.00	0.00	13.900	0.00	13.900
OUT	Outlt	0.000	0.00	0.00	0.00	13.900	0.00	13.900

Conveyance Configuration Data
=====

Run#	Node I.D.	Flowline Elev. US DS	Shape #	Span (ft)	Rise (ft)	Length (ft)	Slope (%)	n_value
2	A-2 OUT	5101.00 5098.20	Circ 1	0.00	2.00	78.90	3.55	0.025

Conveyance Hydraulic Computations. Tailwater = 0.000 (ft)
=====

Hydraulic Gradeline	Depth	Velocity	Junc
---------------------	-------	----------	------

Run#	US Elev (ft)	DS Elev (ft)	Fr.Slope (%)	Unif. (ft)	Actual (ft)	Unif. (f/s)	Actual (f/s)	Q (cfs)	Cap (cfs)	Loss (ft)
2*	5102.15	5099.35	1.396	1.15	1.15	7.45	7.45	13.90	22.17	0.000
=====END=====										

* Super critical flow.

NORMAL TERMINATION OF WINSTORM.

Warning Messages for current project:

Runoff Frequency of: 100 Years
Capacity of sag inlet exceeded at inlet Id= A-2
Tailwater set to uniform depth elevation = 5099.35(ft)



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 29, 2003

Morey Walker, PE
Walker Engineering
905 Camino Sierra Vista
Santa Fe, NM 87501

*Permit pulled by
TLC
9/11/03
2073125*

**Re: APS E-School Drainage Report
Engineer's Stamp dated 8-5-03 (L9/D34)**

Dear Mr. Walker,

Based on information contained in your submittal dated 8-14-03, the above referenced report is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

BLB Also approval for SO#19 Permit

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. Refer to the attachment that is provided with this letter for details. If you have any questions please feel free to call the Public Works Hydrology section at 768-3654 (Charles Caruso) or 768-3645 (Brian Wolfe).

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

If you have any questions, you can contact me at 924-3986.

Sincerely,
Bradley L. Bingham
Bradley L. Bingham, PE
Sr. Engineer, Planning Dept.
Development and Building Services

C: Chuck Caruso, CoA
file

L-9/034 COA SPM
 Matt Eddy
 9/03

CITY OF ALBUQUERQUE

PERMIT FOR EXCAVATION, CONSTRUCTION AND BARRICADING

CONTRACTOR LICENSE ADDRESS	T.L.C. COMPANY, INC. GF09 P.O. BOX 23398 ALBUQUERQUE, NM 87192 701 257-3111	PERMIT NUMBER	2073125
		PROJECT NUMBER	
		PERMIT ISSUE DATE	09/11/2003
		BARRICADED BY	

S I T E	500 90TH ST SW
----------------------------	----------------

BLUE STAKE		
PAVING BY	COM	
EXCAVATION 443008-5810000	42.00	EX
SIDEWALK 443012-5810000	0.00	SW
DRIVEPAD 443011-5810000	0.00	DP
CURB/GUTTER 443010-5810000	0.00	CG
BARRICADING 443009-5810000	25.00	BR
RESTORATION 443017-5810000	0.00	RS
TOTAL FEE	67.00	

PERMIT AND DETOUR PLAN COMMENTS
SD #19 LETTER ON FILE DATED 8/29/03 AFS E SCHOOL DRAINAGE

START DATE	COMPLETION DATE	PERMIT EXPIRES	INSURANCE EXPIRES	BOND EXPIRES	ZONE ATLAS
09/11/2003	09/21/2003	09/21/2003	07/01/2004	12/31/2003	

APPLICANT
ISSUED BY

VOID UNTIL VALIDATED BY CITY TREASURER

PERMITTEE AGREES TO ASSUME ALL LIABILITY, INCLUDING INDEMNIFYING, DEFENDING AND HOLDING THE CITY HARMLESS FOR ALL DAMAGES OR INJURY TO PERSONS OR PROPERTY RESULTING FROM PERMITTEE'S EXCAVATION AND/OR BARRICADE WORK. THIS PERMIT IS GRANTED IN CONSIDERATION OF PERMITTEE'S ASSUMING SAID LIABILITY AND IS APPROVED FOR THE WORK DESCRIBED ABOVE. IN ACCORDANCE WITH SECTION 6-5-2-1 ET SEQ. R.O. (1994), PERMITTEE AGREES TO COMPLY WITH ALL APPLICABLE CITY RULES, REGULATIONS AND ORDINANCES, AND WHEN EXCAVATING, TO PATCH OR PLATE PRIOR TO OPENING TO TRAFFIC IN ACCORDANCE WITH APPLICABLE RULES, REGULATIONS AND ORDINANCES. PLEASE CALL 924-3400 FOR ADDITIONAL INFORMATION.

DATE EXCAVATION STARTED _____

Backfill: Started _____ Completed _____ Accepted _____

Paved Cleared _____ Site Cleared _____ Warranty Exp _____

Restoration Fee Refund Authorized Yes _____ NO _____ BY: _____

Cash Disbursement Prepared for Refund Dated _____



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 24, 2003

Morey Walker, PE
Walker Engineering
905 Camino Sierra Vista
Santa Fe, NM 87501

**Re: APS E-School Drainage Report
Engineer's Stamp dated ??? (L9/D34)**

Dear Mr. Walker,

Based on information contained in your submittal dated 7-10-03, the above referenced report cannot be approved for Building Permit until the following comments are addressed.

- Per standard drawing 2237, the largest pipe size allowable for the SO#19 permit is 12" and must be either PVC or ductile iron. Please reference the drawing number on the plan. You will also need to provide the invert of the new pipe.
- Water blocks of flowline plus 0.87' at the property line are required at all drives in order to keep the street runoff in the street. Lowering the sidewalk at the drives will allow the higher (and usually faster and more volatile) flows to run up the sidewalk and then erode behind the curb.
- A Traffic Circulation Layout must be submitted for review as well. This layout plan dimensions all parking spaces, drive aisle widths, end island and return radii, etc. Please submit it with a drainage information sheet.
- Please date your signature; that is how we track submittals and approvals.

If you have any questions, you can contact me at 924-3986.

Sincerely,

Bradley L. Bingham, PE
Sr. Engineer, Planning Dept.
Development and Building Services

C: file

CITY OF ALBUQUERQUE



November 10, 2010

Jeffery G. Mortensen, PE
High Mesa Consulting Group, Inc.
6010-B Midway Park Blvd. NE
Albuquerque, NM 87109

**Re: Edward Gonzales Elem. School Track & Field Impr.
Grading and Drainage Plan
Engineer's Stamp dated 11-02-10 (L09/D34)**

Dear Mr. Mortensen,

Based upon the information provided in your submittal received 11/04/2010, the above referenced plan is approved for Grading Permit.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit for storm water discharge and also requires a Topsoil Disturbance Permit since it is disturbing $\frac{3}{4}$ of an acre or more.

PO Box 1293

Upon completion of the project, please provide an Engineer Certification for our files.

Albuquerque

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

NM 87103

Sincerely,

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

www.cabq.gov

C: File
Kathy Verhage

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: EDWARD GONZALES ELEM. SCHOOL ZONE ATLAS/DRNG. FILE #: L9 D34
 DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: TRACT A, EDWARD GONZALES ELEMENTARY SCHOOL
 CITY ADDRESS: 554 90TH STREET SW, 87121

ENGINEERING FIRM: HIGH MESA CONSULTING GROUP (NMPE 8547) CONTACT: JEFF MORTENSEN
 ADDRESS: 6010-B MIDWAY PARK BLVD. NE PHONE: (505) 345-4250
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87109

OWNER: ALBUQUERQUE PUBLIC SCHOOLS, DEPT FDC CONTACT: ROLDAN PASION
 ADDRESS: 915 OAK STREET, SE PHONE: 848-8871
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87106

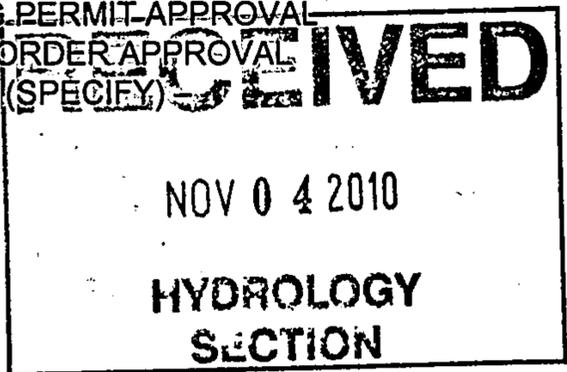
ARCHITECT: WESTWIND LANDSCAPE CONSTRUCTION INC (ASLA) CONTACT: KEVIN NEEL, PM
 ADDRESS: 2739 VASSAR PLACE NE PHONE: 505-881-8925
 CITY, STATE: ABQ, NM ZIP CODE: 87107

SURVEYOR: HIGH MESA CONSULTING GROUP (NMPS 15075) CONTACT: JOE SOLOMON
 ADDRESS: 6010-B MIDWAY PARK BLVD. NE PHONE: (505) 345-4250
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87109

CONTRACTOR: WESTWIND LANDSCAPE CONSTRUCTION INC CONTACT: KEVIN NEEL
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

- TYPE OF SUBMITTAL:**
- DRAINAGE REPORT
 - DRAINAGE PLAN 1st SUBMITTAL, *REQUIRES TCL or equal*
 - DRAINAGE PLAN RESUBMITTAL (MDP FOLLOW-UP)
 - CONCEPTUAL GRADING & DRAINAGE PLAN
 - GRADING PLAN
 - EROSION CONTROL PLAN
 - ENGINEER'S CERTIFICATION (HYDROLOGY)
 - CLOMR/LOMR
 - TRAFFIC CIRCULATION LAYOUT (TCL)
 - ENGINEER'S CERTIFICATION (TCL)
 - ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
 - OTHER -

- CHECK TYPE OF APPROVAL SOUGHT:**
- SIA/FINANCIAL GUARANTEE RELEASE
 - 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 (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

DATE SUBMITTED: 11-48-2010 BY: JEFFREY G. MORTENSEN
 XC: ROLDAN PASION W/ 2 SETS; KEVIN NEEL W/ 1 SET

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DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: Albuquerque Public Schools E-School
 DRB #: N/A EPC#: _____

ZONE MAP/DRG. FILE #: L-9/D-34
 WORK ORDER#: _____

LEGAL DESCRIPTION: Tracts 18-22, Town of Atrisco Grant, Unit No. Two
 CITY ADDRESS: 500 90th Street, SW

ENGINEERING FIRM: Walker Engineering (Civil)
 ADDRESS: 905 Camino Sierra Vista
 CITY, STATE: Santa Fe, NM

CONTACT: Andy Riemenschneider
 PHONE: 690-5873
 ZIP CODE: 87501

OWNER: Albuquerque Public Schools
 ADDRESS: 912 Oak Street, SE
 CITY, STATE: Albuquerque, NM

CONTACT: Bob Becker
 PHONE: 242-5865
 ZIP CODE: 87106

ARCHITECT: Mazria Riskin Odems, Inc.
 ADDRESS: 607-G Cerrillos Road
 CITY, STATE: Santa Fe, NM

CONTACT: Joseph Chipman
 PHONE: 988-5309x13
 ZIP CODE: 87505

SURVEYOR: Walker Surveying
 ADDRESS: 424 Shirk Lane, SW
 CITY, STATE: Albuquerque, NM

CONTACT: Steve Walker
 PHONE: 269-4888
 ZIP CODE: 87105

CONTRACTOR: Famco, Inc.
 ADDRESS: P.O.Box 14658
 CITY, STATE: Albuquerque, NM

CONTACT: Ed Winebrenner
 PHONE: 821-5790
 ZIP CODE: 87191

CHECK TYPE OF SUBMITTAL:

CHECK TYPE OF APPROVAL SOUGHT:

- DRAINAGE REPORT
- DRAINAGE PLAN 1st SUBMITTAL, **REQUIRES TCL or equal**
- DRAINAGE PLAN RESUBMITTAL
- CONCEPTUAL GRADING & DRAINAGE PLAN
- GRADING PLAN
- EROSION CONTROL PLAN
- ENGINEER'S CERTIFICATION (HYDROLOGY)
- CLOMR/LOMR
- TRAFFIC CIRCULATION LAYOUT (TCL)
- ENGINEERS CERTIFICATION (TCL)
- ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- OTHER

- SIA / FINANCIAL GUARANTEE RELEASE
- PRELIMINARY PLAT APPROVAL
- S. DEV. PLAN FOR SUB'D. APPROVAL
- S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
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- 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



DATE SUBMITTED: August 12, 2003

BY: Joseph Chipman; Mazria Riskin Odems, Inc.

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

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City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

**Planning Department
Transportation Development Services Section**

August 29, 2003

Andy Riemenschneider
Walker Engineering
905 Camino Sierra Vista
Santa Fe, NM
87501

Re: Traffic Circulation Layout (TCL) Submittal for Building Permit Approval for
Albuquerque Public Schools, E-School [L-09/D34]
500 90th Street SW, Albuquerque, NM
Architect's Stamp Dated 8-14-03

Dear Mr. Riemenschneider

The TCL submittal dated August 14, 2003 is approved with the condition that the access point on 90th Street is limited to an exit only and signed and marked as such. The plan is stamped and signed as approved. Two copies will be required: one for each of the building permit plans and the original to be kept by you to be used for certification of the site for final C.O. for Transportation.

If a temporary CO is needed then a copy of the original TCL that was stamped as approved by the City which includes a statement that identifies the outstanding items that need to be constructed or the items that have not been built in "substantial compliance". This statement requires a NM registered architect or engineer stamp to be dated. Submit this TCL with a completed Drainage and Transportation Information Sheet to Hydrology at the Development Services Center of Plaza Del Sol Building.

When the site is completed and a final C.O. is requested, use the original City stamped approved TCL for certification. A NM registered architect or engineer needs stamp and date the certification TCL along with indicating that the development was built in "substantial compliance" with the TCL. Submit this certification TCL with a completed Drainage and Transportation Information Sheet to Hydrology at the Development Services Center of Plaza Del Sol Building.

Once verification of certification is completed and approved, notification will be made to Building Safety to issue Final C.O. To confirm that a final C.O. has been issued, call Building Safety at 924-3306.

Sincerely,

Richard Dourte, PE
Traffic Engineer
Development and Building Services

cc: Hydrology file
file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

L-9/D34

PROJECT TITLE: Albuquerque Public Schools E-School
DRB #: N/A EPC#: _____

ZONE MAP/DRG. FILE #: _____
WORK ORDER#: _____

LEGAL DESCRIPTION: Tracts 18-22, Town of Atrisco Grant, Unit No. Two
CITY ADDRESS: Tower and 86th, SW

ENGINEERING FIRM: Walker Engineering (Civil)
ADDRESS: 905 Camino Sierra Vista
CITY, STATE: Santa Fe, NM

CONTACT: Andy Riemenschneider
PHONE: ~~690-5873~~ 820-7990
ZIP CODE: 87501

OWNER: Albuquerque Public Schools
ADDRESS: 912 Oak Street, SE
CITY, STATE: Albuquerque, NM

CONTACT: Bob Becker
PHONE: 242-5865
ZIP CODE: 87106

ARCHITECT: Mazria Riskin Odems, Inc.
ADDRESS: 607-G Cerrillos Road
CITY, STATE: Santa Fe, NM

CONTACT: Joe Chipman
PHONE: 988-5309x13
ZIP CODE: 87505

SURVEYOR: Walker Surveying
ADDRESS: 424 Shirk Lane, SW
CITY, STATE: Albuquerque, NM

CONTACT: Steve Walker
PHONE: 269-4888
ZIP CODE: 87105

CONTRACTOR: Famco, Inc.
ADDRESS: P.O.Box 14658
CITY, STATE: Albuquerque, NM

CONTACT: Ed Winebrenner
PHONE: 821-5790
ZIP CODE: 87191

CHECK TYPE OF SUBMITTAL:

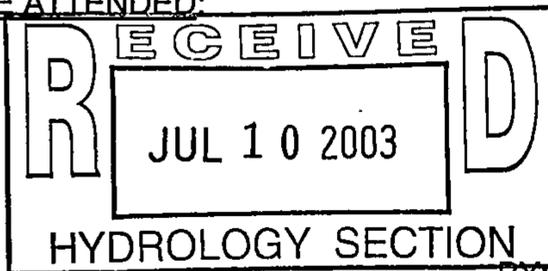
- DRAINAGE REPORT
- DRAINAGE PLAN 1st SUBMITTAL, **REQUIRES TCL or equal**
- DRAINAGE PLAN RESUBMITTAL
- CONCEPTUAL GRADING & DRAINAGE PLAN
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- ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- OTHER

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- SIA / FINANCIAL GUARANTEE RELEASE
- PRELIMINARY PLAT APPROVAL
- S. DEV. PLAN FOR SUB'D. APPROVAL
- S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
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- CERTIFICATE OF OCCUPANCY (TEMP.)
- GRADING PERMIT APPROVAL
- PAVING PERMIT APPROVAL
- WORK ORDER APPROVAL
- OTHER (SPECIFY) SO19

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- YES
- NO
- COPY PROVIDED



Chipman

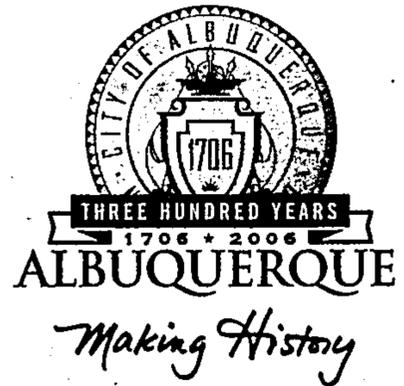
DATE SUBMITTED: July 10, 2003

BY: Joseph Chipman; Mazria Riskin Odems, Inc.

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

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CITY OF ALBUQUERQUE



*Planning Department
Transportation Development Services Section*

September 8, 2004

Edward Mazria, Registered Architect
607 Cerrillos Road, Ste. G
Santa Fe, NM 87501

Re: Certification Submittal for Final Building Certificate of Occupancy for
Edward Gonzales Elementary School, [L-9 / D34]
554 90th Street SW
Architect's Stamp Dated 08/30/04

Dear Mr. Mazria:

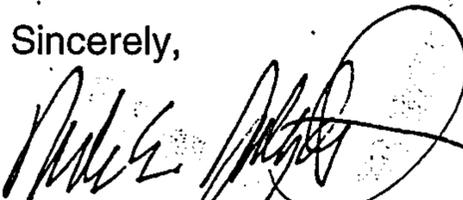
P.O. Box 1293

The TCL / Letter of Certification submitted on September 8, 2004 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

Albuquerque

Sincerely,

New Mexico 87103


Nilo E. Salgado-Fernandez, P.E.
Senior Traffic Engineer
Development and Building Services
Planning Department

www.cabq.gov

c: Engineer
Hydrology file
CO Clerk

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: Edward Gonzalez Elem. School ZONE MAP/DRG. FILE #: L-9 / D34
DRB #: EPC#: WORK ORDER#:

LEGAL DESCRIPTION: 554 90th ST. ALB, NM
CITY ADDRESS:

ENGINEERING FIRM:
ADDRESS:
CITY, STATE:

CONTACT:
PHONE:
ZIP CODE:

OWNER: APS
ADDRESS:
CITY, STATE:

CONTACT:
PHONE:
ZIP CODE:

ARCHITECT: MAZRIA-RISKIN-ODUMS
ADDRESS: 607 Cejilla Rd
CITY, STATE: SANTA FE, NM 87505

CONTACT:
PHONE:
ZIP CODE:

SURVEYOR:
ADDRESS:
CITY, STATE:

CONTACT:
PHONE:
ZIP CODE:

CONTRACTOR: Franco, Inc
ADDRESS: P.O. Box 14659
CITY, STATE: ALB, NM 87191

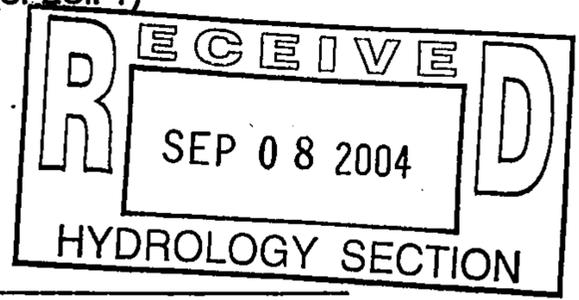
CONTACT:
PHONE:
ZIP CODE:

- CHECK TYPE OF SUBMITTAL:
DRAINAGE REPORT
DRAINAGE PLAN 1st SUBMITTAL, REQUIRES TCL or equal
DRAINAGE PLAN RESUBMITTAL
CONCEPTUAL GRADING & DRAINAGE PLAN
GRADING PLAN
EROSION CONTROL PLAN
ENGINEER'S CERTIFICATION (HYDROLOGY)
CLOMR/LOMR
TRAFFIC CIRCULATION LAYOUT (TCL)
ENGINEERS CERTIFICATION (TCL)
ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
OTHER

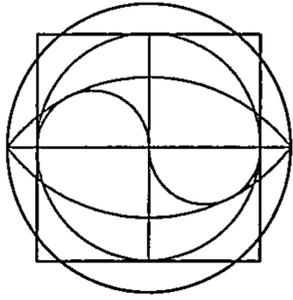
- CHECK TYPE OF APPROVAL SOUGHT:
SIA / FINANCIAL GUARANTEE RELEASE
PRELIMINARY PLAT APPROVAL
S. DEV. PLAN FOR SUB'D. APPROVAL
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FINAL PLAT APPROVAL
FOUNDATION PERMIT APPROVAL
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CERTIFICATE OF OCCUPANCY (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

DATE SUBMITTED: [Signature] BY:



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MAZRIA RISKIN ODEMS, INC.

607 CERRILLOS ROAD, SUITE G
SANTA FE, NEW MEXICO 87501

Phone: (505) 988-5309 Fax: (505) 983-9526

TRANSMITTAL

DATE: August 30, 2004

PROJECT: Edward Gonzales Elementary School
554 90th. Street, SW
Albuquerque, New Mexico

TO: Nilo ⁵⁹ ~~Delgado~~ ^F ~~Hernandez~~
City of Albuquerque Development & Building Services

FROM: Edward Mazria

VIA: Hand-delivered by Famco, Inc.

RE: Site Construction Certification for Certificate of Occupancy

This letter is to certify that the site construction at the above-named project is in substantial compliance with the City-approved site plan.

Edward Mazria
Architect of Record

(Seal)

