

CITY OF ALBUQUERQUE



April 29, 2016

Richard J. Berry, Mayor

J. Graeme Means, P.E.
High Mesa Consulting Group
4715 Moon St NE
Albuquerque, NM, 87111

**RE: Chaparral Elementary School
Main Parking Lot Reconstruction
Grading Drainage Plan
Engineer's Stamp Date 3-30-2016 (File:F10D005)**

Dear Mr. Means:

Based upon the information provided in your submittal received 4-1-2016, the above referenced Grading and Drainage Plan is approved for Grading Permit and Paving Permit. We understand that the scope of the project involves the removal and replacement of a portion of the asphalt parking lot.

PO Box 1293 Please attach a copy of this approved plan in the construction sets when submitting for the building permit. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

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

New Mexico 87103

Sincerely,

Abiel Carrillo, P.E.
Principal Engineer, Planning Department
Development Review Services

www.cabq.gov

LSC Approved 4/12/16



Google Earth Pro

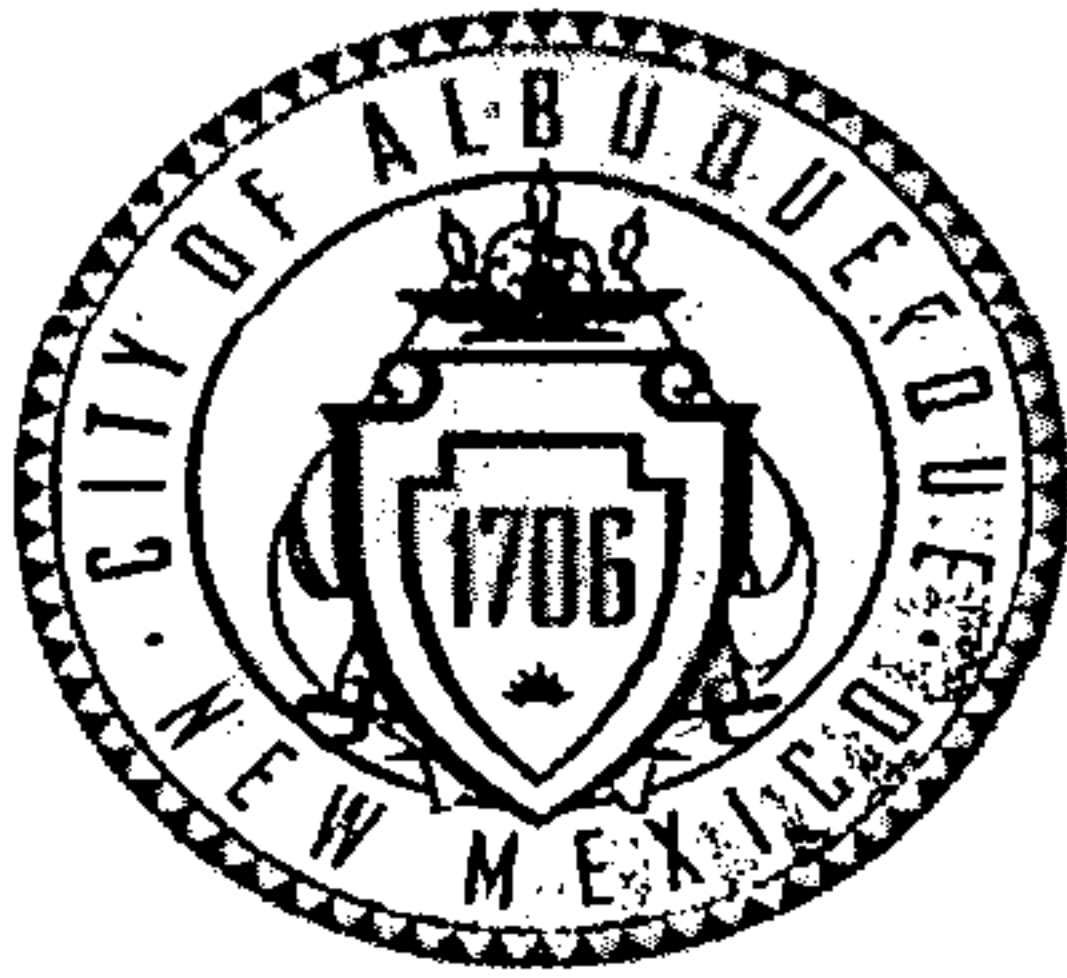
feet
meters

2000

800



Project will just remove
+ replace ex. asphalt,
minor grade changes/adjustments



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: Chaparral Elementary School Main Parking Lot Reconstruction Building Permit #: _____ City Drainage #: F10 0005

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: Tract B, Chaparral Elementary School

City Address: 6325 Milne Road NW, Albuquerque NM 87120

Engineering Firm: High Mesa Consulting Group Contact: Graeme Means #13676

Address: 6010-B Midway Park Blvd NE, Albuquerque NM 87109

Phone#: 505-345-4250 Fax#: 505-345-4254 E-mail: gmeans@highmesecg.com

Owner: Albuquerque Public Schools Contact: David Ritchey

Address: 915 Oak Street SE, Albuquerque NM 8712502

Phone#: 505-848-8876 Fax#: _____ E-mail: ritchey_d@aps.edu

Architect: see Engineer Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Other Contact: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Check all that Apply:

DEPARTMENT:

- ☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION
☐ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ ARCHITECT CERTIFICATION
☐ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
☐ DRAINAGE MASTER PLAN
☒ DRAINAGE REPORT
☐ CLOMR/LOMR

☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)

☐ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: ☐ Yes ☒ No

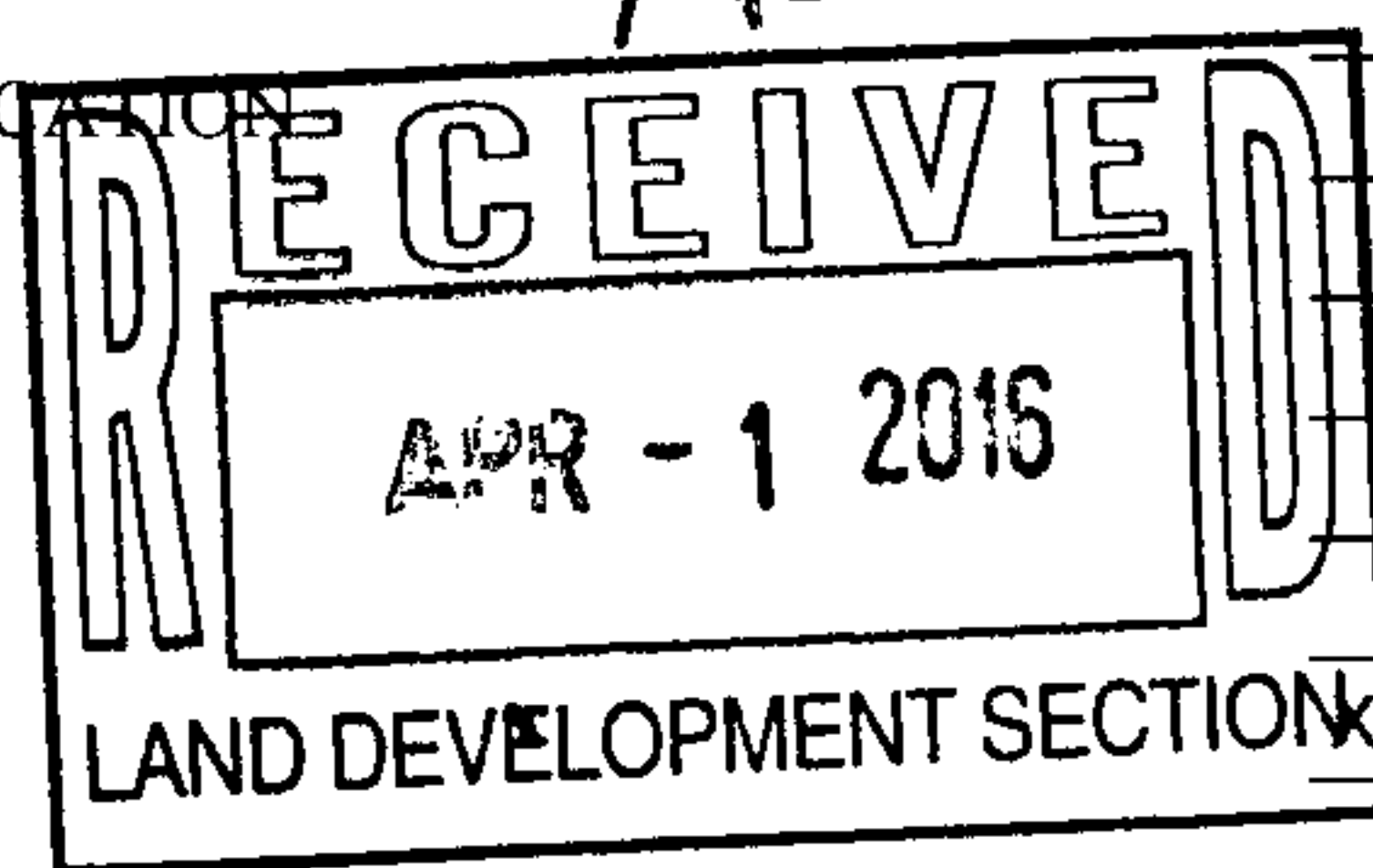
DATE SUBMITTED: 03-31-16 By: Justin Schara

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☐ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY

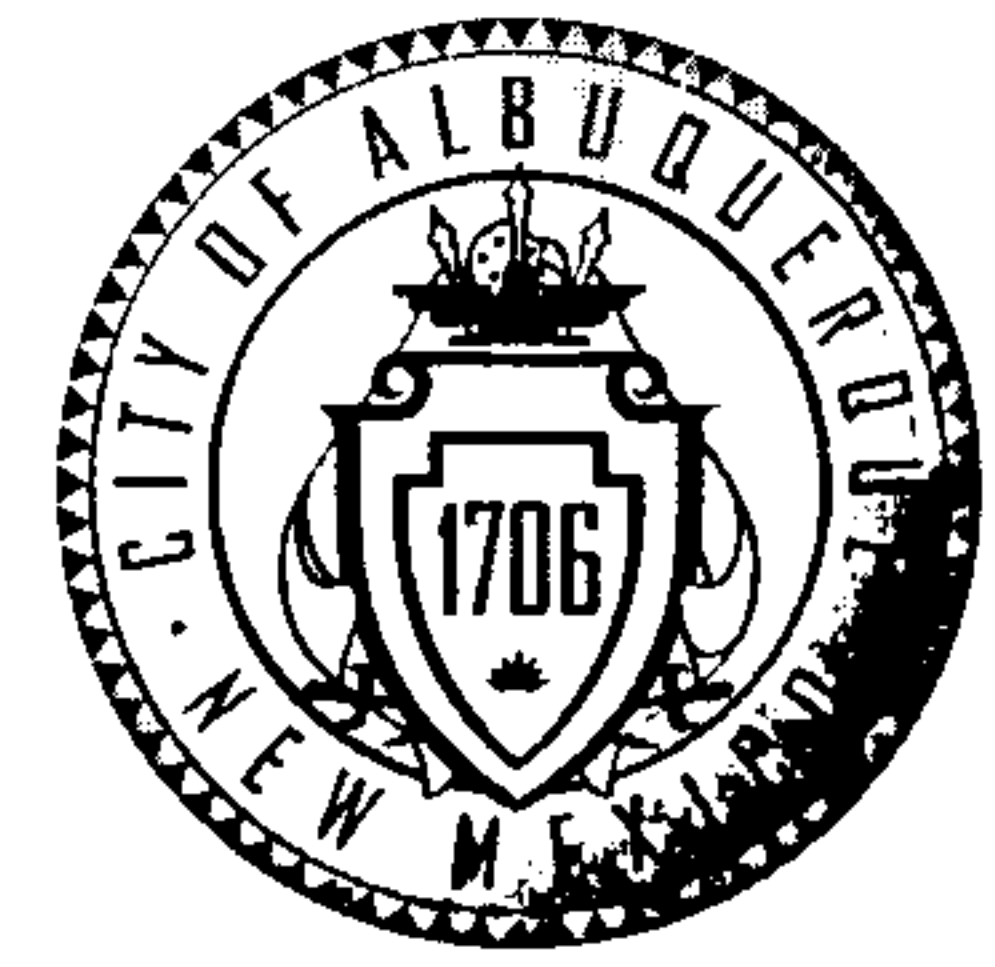
☐ PRELIMINARY PLAT APPROVAL
☐ SITE PLAN FOR SUB'D APPROVAL
☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
☐ FINAL PLAT APPROVAL
☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
☐ FOUNDATION PERMIT APPROVAL
☐ GRADING PERMIT APPROVAL
☐ SO-19 APPROVAL
☒ PAVING PERMIT APPROVAL
☐ GRADING/ PAD CERTIFICATION
☐ WORK ORDER APPROVAL
☐ CLOMR/LOMR

☐ PRE-DESIGN MEETING
☐ OTHER (SPECIFY) _____



COA STAFF: _____ ELECTRONIC SUBMITTAL RECEIVED: _____

CITY OF ALBUQUERQUE



October 13, 2015

Jeffrey Mortensen, PE
High Mesa Consulting Group
6010 -B Midway Park Blvd NE
Albuquerque, NM 87109

Re: Chaparral ES Kindergarten Addn. Phase 2 & Phase 3
6325 Milne Rd NW
Engineer's Stamp dated: 5/21/2014 (F10D005)
Certification dated: 10-9-15

Dear Mr. Mortensen,

Based on the Certification received 10/13/2015, the site is acceptable for release of Certificate of Occupancy by Hydrology.

PO Box 1293

If you have any questions, you can contact me at 924-3999 or Totten Elliott at 924-3982.

Albuquerque

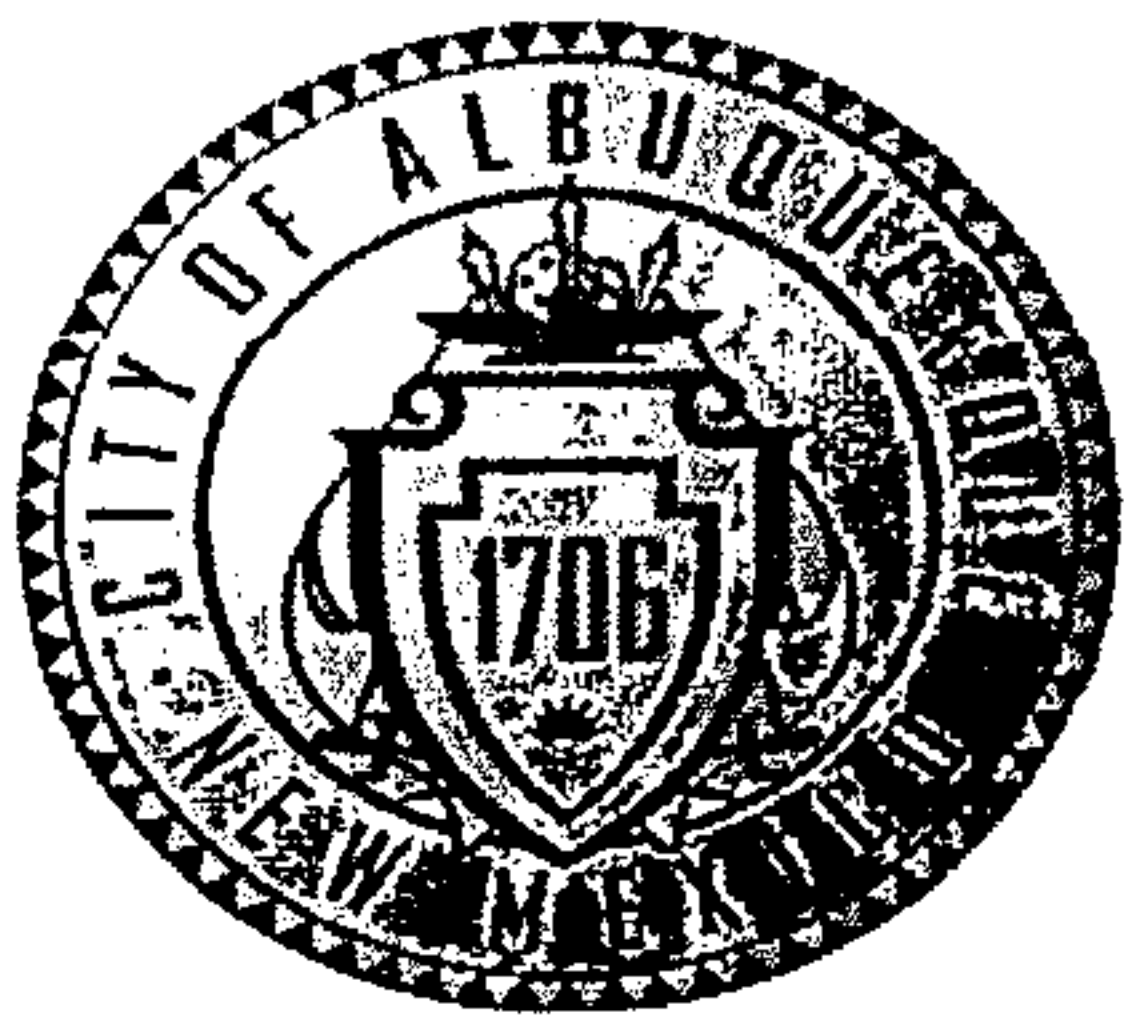
NM 87103

www.cabq.gov

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Hydrology
Planning Department

C: TE/RH
CO Clerk
email



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: CHAPARRAL ES KINDERGARTEN ADDN PHASE 2 RECERT/PHASE 3 CERT Building Permit #: _____ City Drainage #: F10/D005

DRB#: _____ ERC#: _____ Work Order#: _____

Legal Description: TRACT B, CHAPARRAL ELEMENTARY SCHOOL

City Address: 6325 MILNE ROAD NW, ALBUQUERQUE, NM 87120

Engineering Firm: HIGH MESA CONSULTING GROUP Contact: JEFF MORTENSEN

Address: 6010B MIDWAY PARK BLVD. NE, ALBUQUERQUE, NM 87109

Phone#: 505-345-4250 Fax#: 505-345-4254 E-mail: jmortensen@highmesacg.com

Owner: ALBUQUERQUE PUBLIC SCHOOLS Contact: DAVID RITCHEY

Address: 915 OAK STREET SE, ALBUQUERQUE, NM 87106

Phone#: 505-848-8876 Fax#: _____ E-mail: ritchey_d@aps.edu

Architect: CHERRY SEE REAMES ARCHITECTS, LLP Contact: MARIE HOLLOWAY

Address: 220 GOLD SW, ALBUQUERQUE, NM 87102

Phone#: 505-842-1278 Fax#: _____ E-mail: msholloway@cherryseereames.com

Other Contact: THOMPSON CONSTRUCTION Contact: DENNIS THOMPSON

Address: _____

Phone#: _____ Fax#: _____ E-mail: dennis@tci-nm.com

Check all that Apply:

DEPARTMENT:

- ☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION
☐ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

- ☒ ENGINEER/ ARCHITECT CERTIFICATION
- ☐ CONCEPTUAL G & D PLAN
☐ GRADING PLAN
☐ DRAINAGE MASTER PLAN
☐ DRAINAGE REPORT
☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ☐ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☐ BUILDING PERMIT APPROVAL
☒ CERTIFICATE OF OCCUPANCY
- ☐ PRELIMINARY PLAT APPROVAL
☐ SITE PLAN FOR SUB'D APPROVAL
☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
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☐ FOUNDATION PERMIT APPROVAL
☐ GRADING PERMIT APPROVAL
☐ SO-19 APPROVAL
☐ PAVING PERMIT APPROVAL
☐ GRADING/ PAD CERTIFICATION
☐ WORK ORDER APPROVAL
☐ CLOMR/LOMR
- ☐ PRE-DESIGN MEETING
☒ OTHER (SPECIFY) RECERTIFICATION (PH 2) FOR PERM CO

IS THIS A RESUBMITTAL?: ☒ Yes ☐ No

DATE SUBMITTED: 10-13-2015 By: JEFF MORTENSEN (HMCG 2009.004.8)

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: _____

December 11, 2014

REVISED REPORT No 2

Albuquerque Public Schools
 Facilities Design & Construction
 915 Oak Street SE
 Albuquerque, NM 87106

Job No:3-30810

PROJECT: Chaparral Elementary School Additions – SO#19

Please find enclosed the following test results conducted on the above referenced Project (SO#19 Permit Work). The following test results were tabulated from a review of the general project test results, and by also conducting additional site specific compaction testing on December 10, 2014.

Results of Field Density tests performed at the above referenced project:

TEST No.	LOCATION	DRY DENSITY (PCF)	% MOISTURE	MAXIMUM DENSITY (PCF)	OPTIMUM MOISTURE	% COMPACT-ION	% REQUIRED
	12" Storm Drain Backfill Southeast Corner Area						
787 Date 10/29/13	5' East of East Drop Inlet, At existing Grade	118.4	7.5	121.3	9.3	97.6	95
1746 Date 12/10/14	10' West of Head Wall, At Grade	115.7	6.5	121.3	9.3	95.4	95
	30" Storm Drain Backfill Northeast Corner Area						
803 Date 10/30/13	10' East of Manhole, Bottom of Trench	116.3	7.4	121.3	9.3	95.7	95
804 Date 10/30/13	30' East of Manhole, Bottom of Trench	116.2	7.6	121.3	9.3	95.8	95
805 Date 10/30/13	10' East of Manhole, Springline North side	116.7	7.9	121.3	9.3	96.2	95
806 Date 10/30/13	10' East of Manhole, Springline, South Side	117.1	8.1	121.3	9.3	96.5	95

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 FAX (505) 471-2245

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 NEW MEXICO
 87113
 (505) 857-0933
 FAX (505) 857-0803

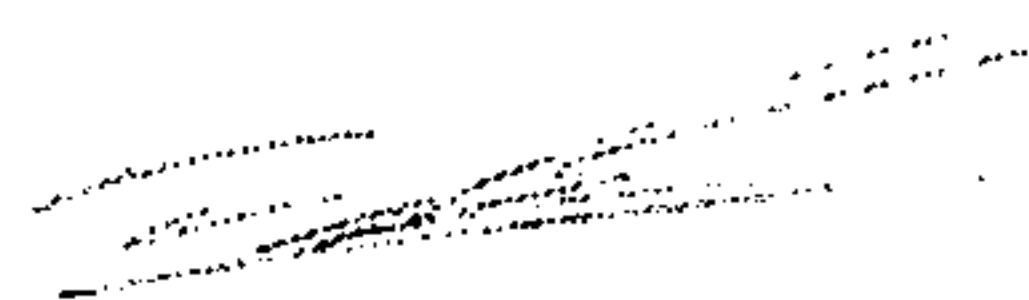
2805-A LAS VEGAS CT
 LAS CRUCES,
 NEW MEXICO
 88007
 (575) 526-6260
 FAX (575) 526-1660

TEST No.	LOCATION	DRY DENSITY (PCF)	% MOISTURE	MAXIMUM DENSITY (PCF)	OPTIMUM MOISTURE	% COMPACT-TION	% REQUIRED
807 Date 10/30/13	30' East of Manhole, Springline, North Side	116.4	7.8	121.3	9.3	96.0	95
808 Date 10/30/13	30' East of Manhole, Springline, South side	116.9	8.0	121.3	9.3	96.4	95
821 Date 10/31/13	10' East of Manhole, at Existing Grade	118.9	9.0	121.3	9.3	98.0	95
822 Date 10/31/13	30' East of Manhole, at Existing Grade	119.5	9.3	121.3	9.3	98.5	95
1747 Date 12/10/14	30" Storm Drain Backfill 5' West of Head Wall, -1.5	115.5	6.3	121.3	9.3	95.2	95
	South Parking Sidewalk, Subgrade						
1682 Date 9/25/13	South Parking Area East Curb Line and Sidewalk Culvert, Finish Grade	116.7	8.3	121.3	9.3	96.4	95

Above test results represent conditions at the described location and elevation at the time of testing. Geo-Test, Inc. makes no recommendations nor conclusions relative to the engineering or scientific aspects of the work performed.

Respectfully submitted:

GEO-TEST, INC.



Tim Byres, SET

Cc: cbacchus@swcp.com
shumateconstructors@gmail.com
zacharybo@gmail.com
billa422@gmail.com
rkearney@nmppsfa.org
ritchey_d@aps.edu
mazzola@aps.edu
Benjamin.harris@aps.edu
msholloway@cherryseereames.com

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TB/cb E-Builders-E-Mail

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December 2, 2013

Albuquerque Public Schools
Facilities Design & Construction
915 Oak Street SE
Albuquerque, NM 87106

Job No.:3-30810

REPORT OF CONCRETE SPECIMENS	
PROJECT:	Chaparral Elementary School Additions
LOCATION OF SAMPLE:	Northeast Corner Manhole Base and Outlet Head Wall, 30"
SLUMP(ASTM C-143):	2.5"
ENTRAINED AIR (ASTM C-231, TYPE B)	7.0%
YIELD (CU.YDS.):	Batched: 4.0 Calc: 4.0
WATER/CEMENT RATIO:*	.35
UNIT WEIGHT:(ASTM C-138)	138.0 lbs/ft³
CEMENT FACTOR:*	462.3 lbs/yds³
SUPPLIER:	Coyote, Truck #500, Ticket # 187822
CONCRETE CODE:	156
SAMPLED BY:	Geo-Test, Inc.
DATE MOLDED:	11/01/13
DELIVERED:	11/02/13
28 DAY DESIGN STRENGTH (psi)	3000

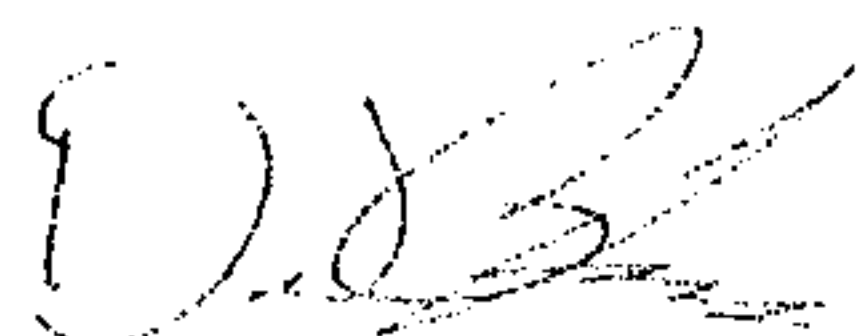
COMPRESSIVE STRENGTH OF CONCRETE SPECIMENS (ASTM C-39)

Specimen No.	Specimen Diameter (in)	Specimen Area	Date Tested	Age Days	Total Load (lbs)	Compressive Strength (psi)	28-Day Design Strength	Type Fracture
30810-77	4.00	12.57	11/08/13	7	44680	3560	3000	3
30810-78	4.00	12.57	11/29/13	28	58150	4630	3000	3
30810-79	4.00	12.57	11/29/13	28	63720	5070	3000	3
30810-80	4.00	12.57	11/29/13	28	60920	4850	3000	3

Concrete Temperature(ASTM C1064): 71°F
Ambient Temperature: 65°F
Water added on site: 0 Gal.

*All Calculations Based on Delivery Ticket Information

Respectfully Submitted:
GEO-TEST, INC.



David Olsen, Supervising Laboratory Tech

Cc: cbacchus@swcp.com
shumateconstructors@gmail.com
zacharybo@gmail.com
billa422@gmail.com
rkearney@nmpsfa.org
ritchev_d@aps.edu

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Benjamin.harris@aps.edu
msholloway@cherryseereames.com
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DO/cb

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March 6, 2014

Albuquerque Public Schools
Facilities Design & Construction
915 Oak Street SE
Albuquerque, NM 87106

Job No.:3-30810

REPORT OF CONCRETE SPECIMENS	
PROJECT:	Chaparral Elementary School Additions
LOCATION OF SAMPLE:	Storm Drain Head Wall 12" Outside Fence, Mechanical Room Pad Extensions, Hot Box Slab
SLUMP:	3.0"
ENTRAINED AIR (ASTM C-231, TYPE B)	5.8%
YIELD (CU.YDS.):	Batched: 5.0 Calc: 5.0
WATER/CEMENT RATIO:*	.45
UNIT WEIGHT:(ASTM C-138)	137.5 lbs/ft ³
CEMENT FACTOR:*	375.6 lbs/yds ³
SUPPLIER:	Lafarge , Truck #4780201, Ticket # 15105678
CONCRETE CODE:	RMXGE30AB8V
SAMPLED BY:	Geo-Test, Inc.
DATE MOLDED:	2/06/14
DELIVERED:	2/07/14
28 DAY DESIGN STRENGTH (psi)	3000

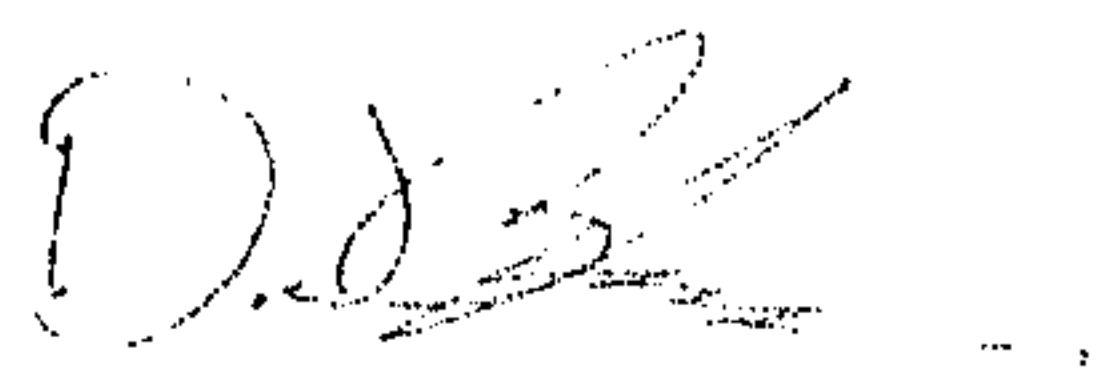
COMPRESSIVE STRENGTH OF CONCRETE SPECIMENS (ASTM C-39)

Specimen No.	Specimen Diameter (in)	Specimen Area	Date Tested	Age Days	Total Load (lbs)	Compressive Strength (psi)	28-Day Design Strength	Type Fracture
30810-328	4.00	12.57	2/13/14	7	39010	3100	3000	3
30810-329	4.00	12.57	2/13/14	7	41750	3320	3000	3
30810-330	4.00	12.57	2/13/14	7	41370	3290	3000	3
30810-331	4.00	12.57	3/06/14	28	46420	3690	3000	3
30810-332	4.00	12.57	3/06/14	28	47360	3770	3000	3
30810-333	4.00	12.57	3/06/14	28	45210	3600	3000	3
30810-334	4.00	12.57	3/06/14	28	47650	3790	3000	3
30810-335	4.00	12.57	3/06/14	28	47850	3810	3000	3
30810-336	4.00	12.57	3/06/14	28	47040	3740	3000	3

Concrete Temperature(ASTM C1064): 70°F
Ambient Temperature: 22°F
Water added on site: 5 Gal.

*All Calculations Based on Delivery Ticket Information

Respectfully Submitted:
GEO-TEST, INC.



David Olsen, Supervising Laboratory Tech

Cc: cbacchus@swcp.com
shumateconstructors@gmail.com
zacharybo@gmail.com

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msholloway@cherryseereames.com
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DO/cb

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October 27, 2014

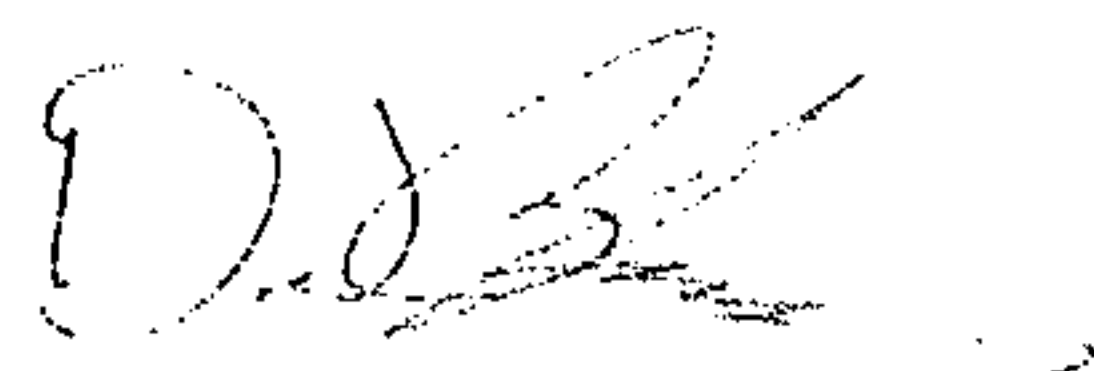
Albuquerque Public Schools
Facilities Design & Construction
915 Oak Street SE
Albuquerque, NM 87106

Job No.:3-30810

REPORT OF CONCRETE SPECIMENS								
PROJECT:				Chaparral Elementary School Additions				
LOCATION OF SAMPLE:				South Bus Loop South Entrance West Side Entrance West Side Curb Line, Sidewalk Culvert				
SLUMP(ASTM C-143):				1.5"				
ENTRAINED AIR (ASTM C-231, TYPE B)				5.0%				
YIELD (CU.YDS.):				Batched: 10.0 Calc: 9.9				
WATER/CEMENT RATIO:*				.42				
UNIT WEIGHT:(ASTM C-138)				139.5 lbs/ft ³				
CEMENT FACTOR:*				531.7 lbs/yds ³				
SUPPLIER:				Coyote, Truck # 79, Ticket # 200342				
CONCRETE CODE:				400				
SAMPLED BY:				Geo-Test, Inc.				
DATE MOLDED:				9/26/14				
DELIVERED:				9/27/14				
28 DAY DESIGN STRENGTH (psi)				4000				
COMPRESSIVE STRENGTH OF CONCRETE SPECIMENS (ASTM C-39)								
Specimen No.	Specimen Diameter (in)	Specimen Area	Date Tested	Age Days	Total Load (lbs)	Compressive Strength (psi)	28-Day Design Strength	Type Fracture
30810-738	4.00	12.57	10/03/14	7	53060	4220	4000	3
30810-739	4.00	12.57	10/24/14	28	62510	4980	4000	3
30810-740	4.00	12.57	10/24/14	28	64860	5160	4000	3
30810-741	4.00	12.57	10/24/14	28	61220	4870	4000	3

Concrete Temperature(ASTM C1064): 78°F *All Calculations Based on Delivery Ticket Information
Ambient Temperature: 60°F
Water added on site: 0 Gal.

Respectfully Submitted:
GEO-TEST, INC.



David Olsen, Supervising Laboratory Tech

Cc: cbacchus@swcp.com
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zacharybo@gmail.com
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ALBUQUERQUE PUBLIC SCHOOLS

Facilities Design & Construction

Brad Winter
INTERIM SUPERINTENDENT

Expect Great Things!

Karen Alarid, AIA
DIRECTOR

April 27, 2015

Shahab Biazar, PE
City Engineer
City of Albuquerque Planning & Zoning Department
600 2nd Street NW, Suite 201
Albuquerque, NM 87102

**Re: Grading & Drainage Building Permit Approval
for Chaparral Elementary School Portable Classrooms**

Dear Shahab,

Wilson & Company Inc., Engineer's & Architects, is the Engineer of Record for the above referenced project. Albuquerque Public Schools Facilities Design & Construction (FD&C) is charged with several portable relocation projects this year that may impact, if not timely completed, school instruction this August 2015. The District is requesting that the City grant a building permit for the foundation (i.e. piers) and associated rough grading immediately at our own risk. We have consulted with Wilson & Company and are comfortable with proceeding with the necessary rough grading and installation of the Portable Building foundations provided in the attached Grading & Drainage Plan. We understand and appreciate the City's requirement to have an approved grading and drainage plan prior to issuance of a foundation permit. However, APS FD&C has to comply with critical milestone dates for Chaparral Elementary in order not to delay start of the anticipated fall school year.

At this time, APS FD&C is requesting that the City consider our formal request to allow Chaparral Elementary School to proceed with the installation of the portable classroom piers within 3 working days from the date of this letter. We are fully committed to addressing any final review comments that may be identified by your staff during their Grading and Drainage Plan review of the attached documents.

Your consideration of our request is sincerely appreciated. Should you have any technical questions or comments, please consult with our on-call Engineer Wilson & Company. The point of contact is Mario Juarez-Infante, PE, at mobile no. 505.715.2541.

Thank you again,

A handwritten signature in black ink, appearing to be 'K. Alarid', is written over a horizontal line.

Karen Alarid, AIA
Director
Facilities Design & Construction Executive Director

WILSON & COMPANY

4900 Lang Ave NE
Albuquerque, NM 87109
505-348-4000 phone
505-348-4055 fax

Alaska
Arizona
California
Colorado
Florida
Kansas
Missouri
Nebraska
New Mexico
Oklahoma
Texas
Utah

April 20, 2015

Jeanne Wolfenbarger, P.E.
Senior Engineer, Planning Department
Development Review Services
600 2nd St. NW, Suite 201
Albuquerque, NM 87102

RE: Chaparral Elementary School Portable Relocation
Grading and Drainage Plan
Engineer's Stamp Dated 4-14-15 (File: F10-D005)


Dear Ms. Wolfenbarger,

Attached is the revised Grading and Drainage Plan sheet submitted for approval. The revisions have been performed based on your comments from the original submittal. Two hardcopy sets will be delivered to your office in addition to this electronic submittal.

The following is a written response to those comments:

1. The first flush volume of 220 cubic feet will be conveyed to the Ladera Basin 16 sump which lies immediately east of the school site. The sump will allow any pollutants to settle out before entering the city storm drain system. The first flush computation have been included on the sheet.
2. Analysis points have been included at pipe inlets and sidewalk culverts. Calculations were also included showing the capacity of the proposed structures.
3. The existing 18" storm drain pipe has been labeled and a proposed 100-year discharge of 11.94 cfs is also labeled.
4. Additional flow arrows showing the direction of runoff from the roofs of the portable buildings have been included. Any flow on the west side of the portable buildings will flow north passed the portable building than east toward the proposed curb & gutter. The direction of discharge in Basin 4A within this project continues to follow existing drainage patterns. The increase in impervious area is accounted for in the plans to develop Basin 4A which will proceed following the completion of the portable relocation project. Refer to Chaparral Elementary School Addition Plans for Proposed Developments layouts.

Sincerely,


Eugenio Valdez, P.E.
Project Engineer
Wilson & Company

Cc: Sal War
File



DOUBLE "D" INLET CAPACITY

$Q_p = 10.80$ cfs
 $H = 0.50$ ft
 $Q_{cap} = 17.50$ cfs
 $Q_{cap} > Q_p$

TYPE "A" INLET CAPACITY

$Q_p = 1.40$ cfs
 $H = 0.50$ ft
 $Q_{cap} = 14$ cfs
 $Q_{cap} > Q_p$

SIDEWALK CULVERT CAPACITY

$Q_p = 0.97$ cfs
 $H = 0.62$ ft
 $Q_{cap} = 4.59$ cfs
 $Q_{cap} > Q_p$

ANALYSIS POINTS

1. $Q_{100} = 0.45$ cfs
2. $Q_{100} = 0.86$ cfs
3. $Q_{100} = 1.40$ cfs
4. $Q_{100} = 9.2$ cfs
5. $Q_{100} = 0.36$ cfs
6. $Q_{100} = 1.30$ cfs

BENTLEY FLOWMASTER
 WAS USED TO VERIFY
 CAPACITIES.
 FLOWMASTER RESULTS
 ARE LOCATED IN THE
 PROJECT FILE FOLDER

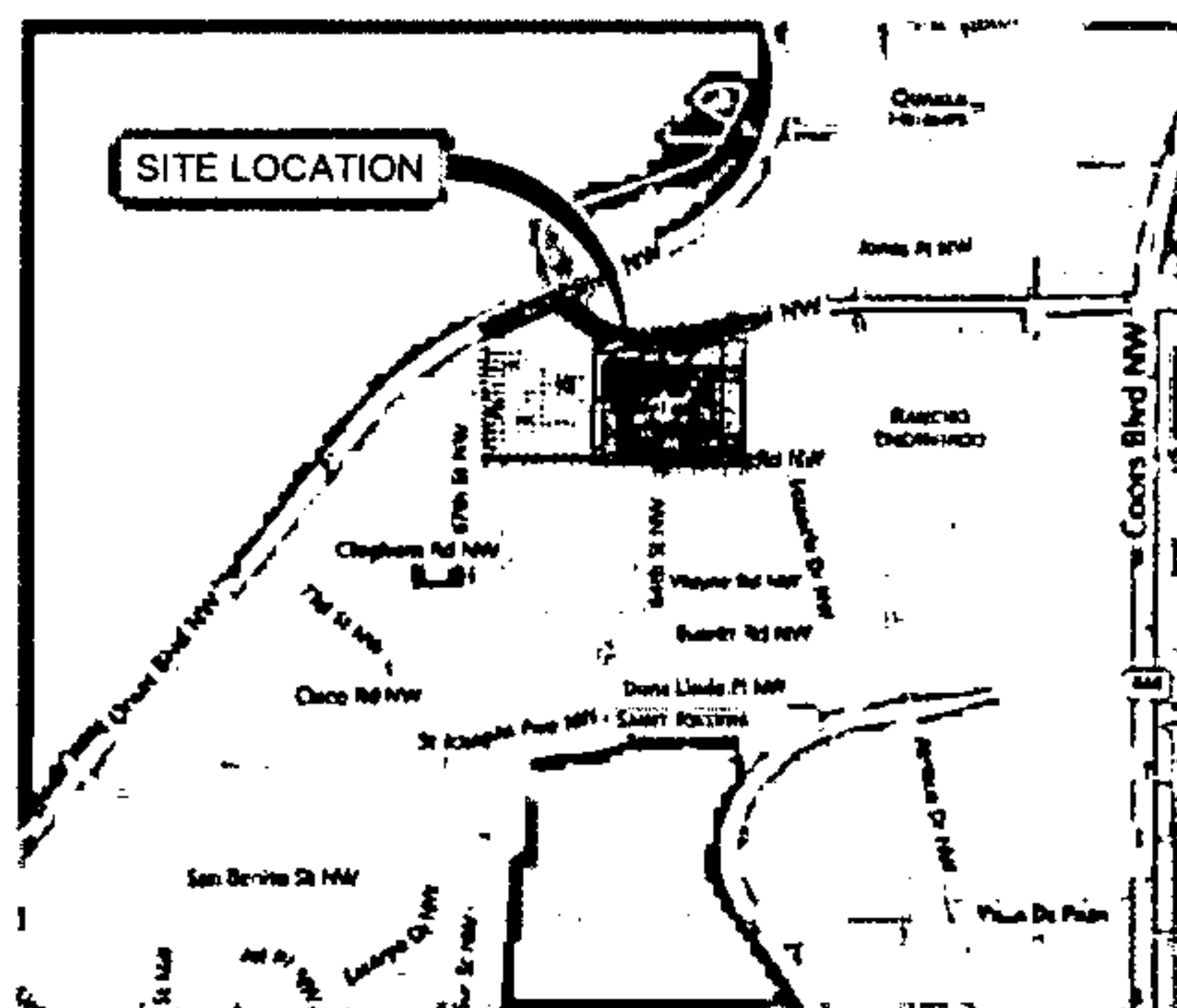
18" STORM DRAIN

$$Q_{cap} = \frac{1.49}{n} \cdot A \cdot R^{2/3} \cdot \sqrt{S}$$

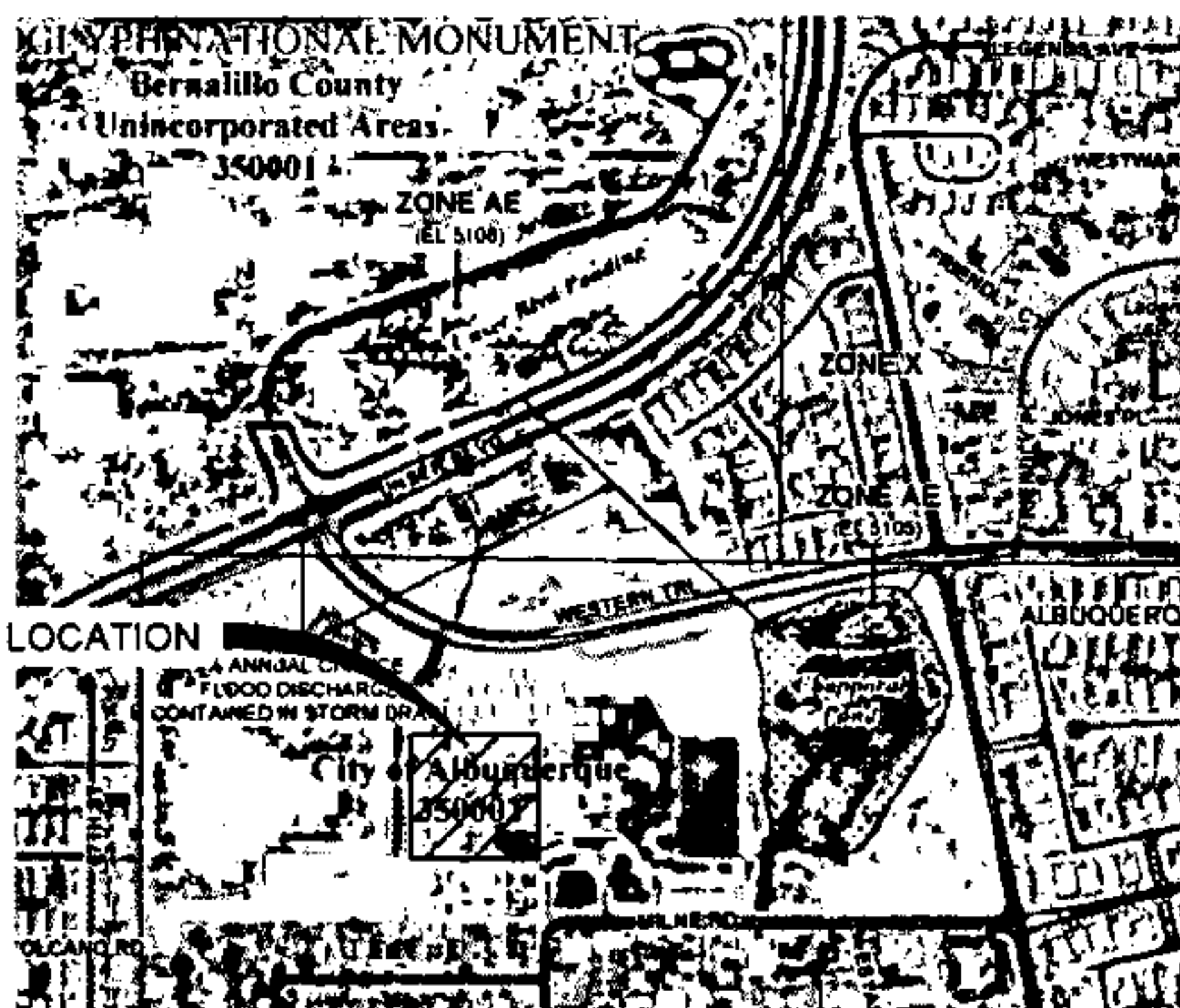
$D = 1.5$
 $R = A/P$
 $A = 1.77$
 $Q_{cap} = 12.7$

FIRST FLUSH COMPUTATIONS

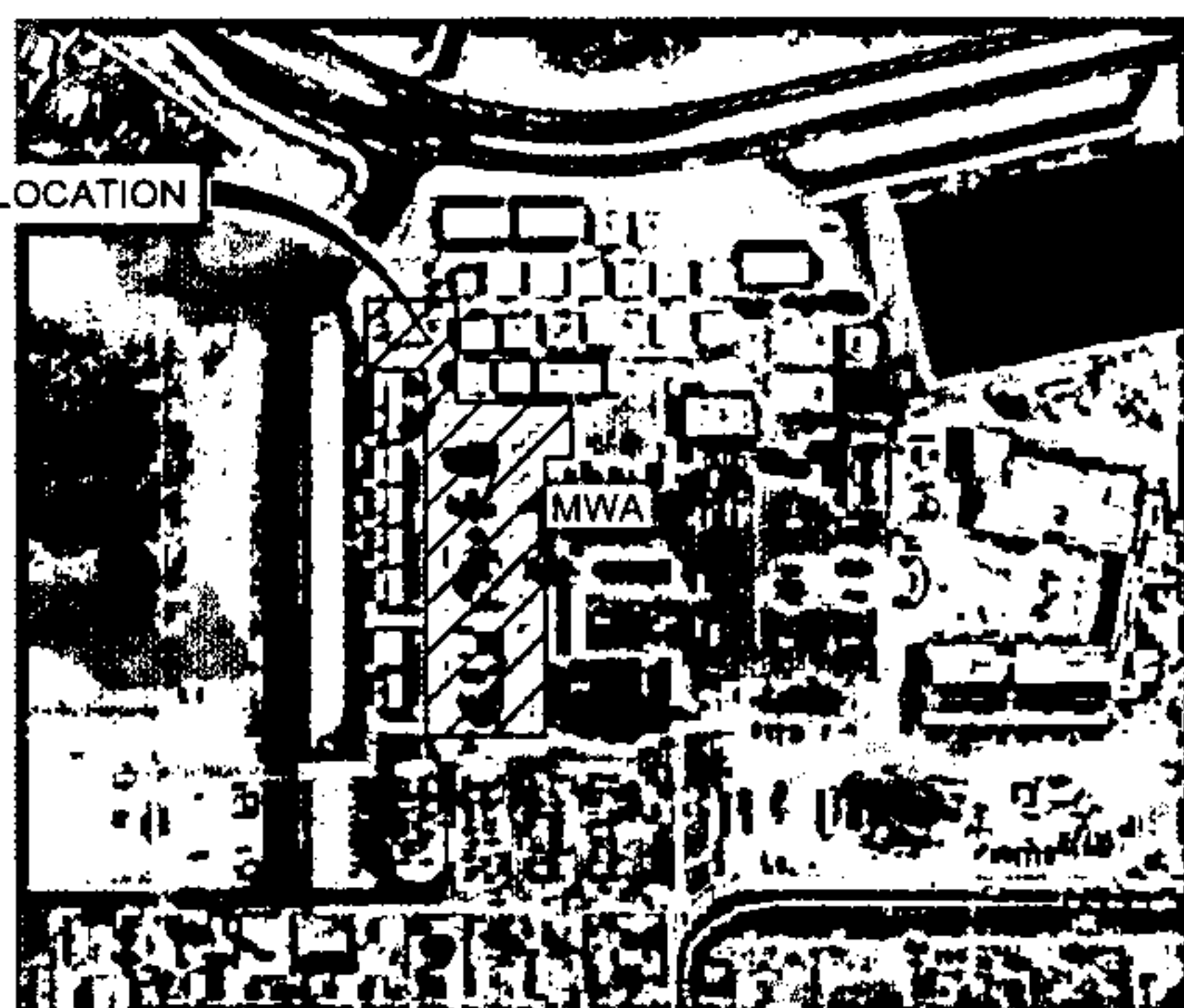
ADDED IMPERVIOUS AREA = 7344 s
 (0.34 in) x (1 ft / 12 in) = 0.03 ft
 $VOL_{1ST FLUSH} = (7344 \text{ sq ft}) \times (0.03 \text{ ft}) = ;$
 SEE CONCLUSION ON WRITE-UP, L
 PARAGRAPH THIS SHEET



LOCATION
 ZONE ATLAS MAP NO F-10



FLOOD INSURANCE RATE MAP
 REFERENCE: FLOOD INSURANCE STUDY
 PANEL 114 #35001C0114H



SOILS MAP
 REFERENCE: [HTTP://WEBSOILSURVEY.NRCS.USDA.GOV](http://websoilsurvey.nrcs.usda.gov)

GENERAL SHEET NOTES

1. EXISTING CONTOUR INTERVALS:
 1' INTERMEDIATE
 5' INDEX

KEYNOTES

1. SIDEWALK CULVERT
2. TYPE 'A' SINGLE INLET
3. TYPE DOUBLE 'D' INLET
4. PROPOSED 18" DIA STORM DRAIN
5. 4' DIA TYPE 'C' MH

LEGAL DESCRIPTION

LOT: B BLOCK 0000, SUBDIVISION CHAPARRAL ES

PROJECT BENCHMARK

THE BENCHMARK IS LOCATED 3.6 MILES NORTHWEST OF
 DOWNTOWN ALBUQUERQUE.
 TO REACH THE BENCHMARK FROM THE INTERSECTION OF
 OURAY ROAD AND LADERA DRIVE NW, TRAVEL EAST ON
 OURAY RD. 0.40 MILES TO
 THE INTERSECTION OF ESTANCIA DRIVE.
 THE BENCHMARK IS A 1 3/4" METALLIC DISK EPOXIED TO THE
 TOP OF CURB 5.50 FEET WEST OF THE WSW RETURN,
 STAMPED "ACS BM 19- H11".
 HORIZONTAL DATUM: NAD 83
 VERTICAL DATUM: NAVD 88
 COORDINATE SYSTEM: NEW MEXICO STATE PLANE CENTRAL
 ZONE 3002
 COMBINED GRID TO GROUND SCALE FACTOR: 1.0003199506
 GEOID: 03
 UNITS: US SURVEY FEET

OVERALL GRADING & DRAINAGE PLAN

A1

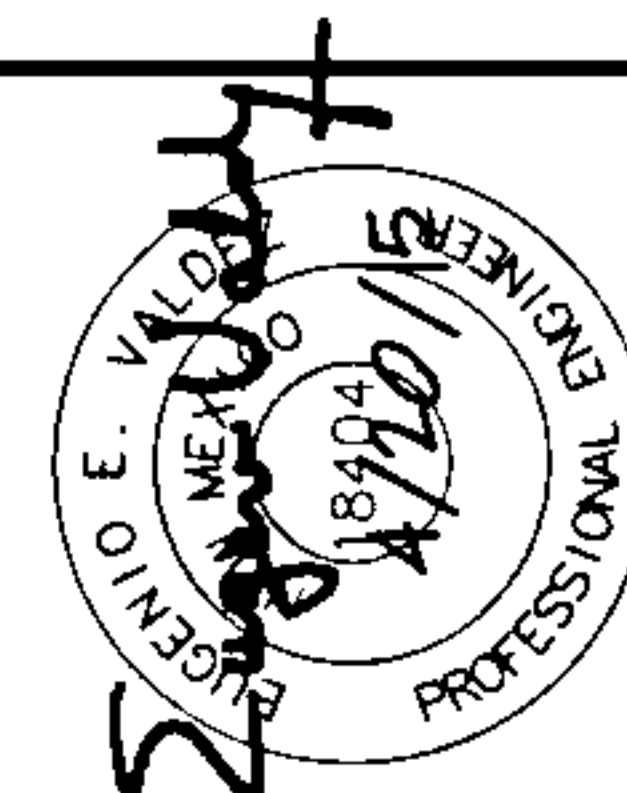
1" = 30'

**WILSON
 & COMPANY**

4900 LANG AVE. NE
 ALBUQUERQUE, NM 87109
 PHONE: 505-348-4000
 FAX: 505-348-4055 FIRST FLOOR
 www.wilsonco.com

CONSULTANTS

SEAL



PROJECT NAME

CHAPARRAL ELEMENTARY
 SCHOOL
 PORTABLE RELOCATION

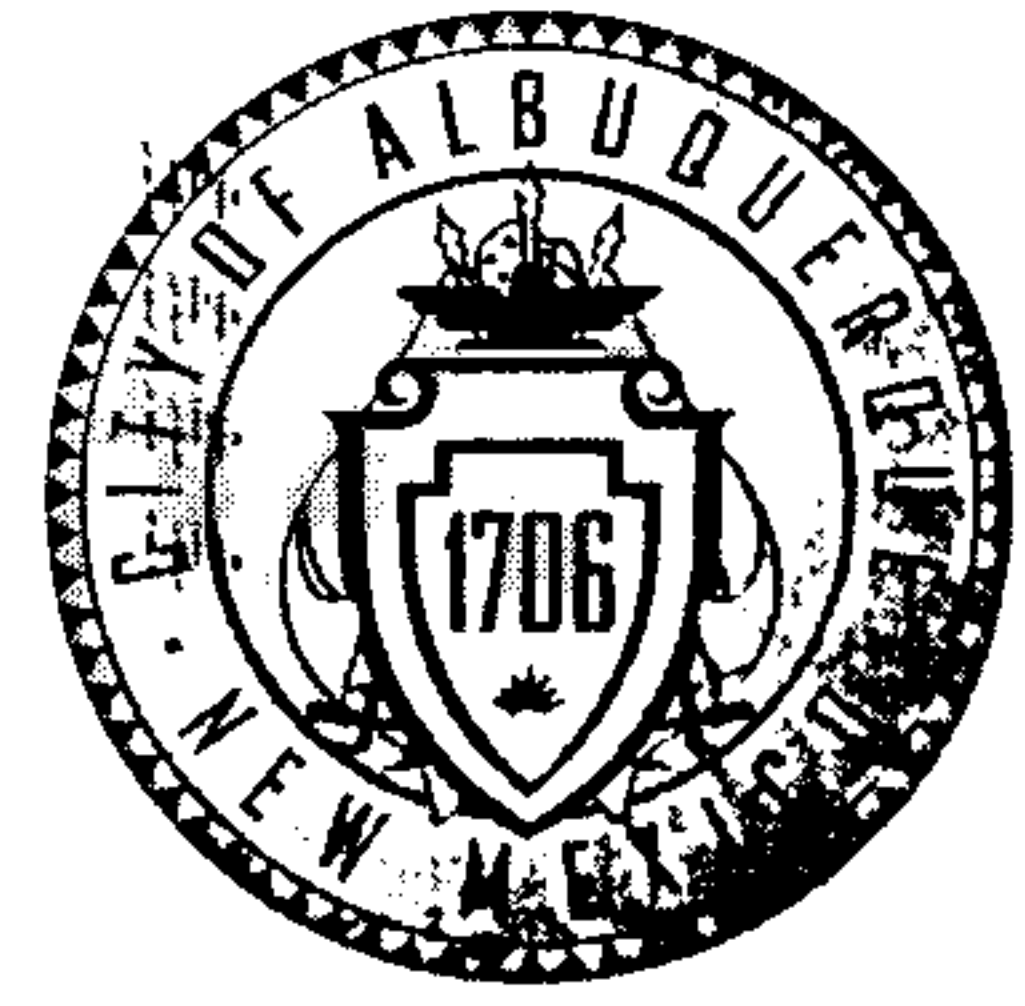
REV.	DATE	DESCRIPTION	BY
1	04/14/15	PARKING LOT REVISION	MJI

PROJECT NO:	1460011400
DESIGNED BY:	MJI
DRAWN BY:	JEM
CHECKED BY:	MJI
DATE:	FEB 2015

SHEET TITLE
 OVERALL GRADING &
 DRAINAGE PLAN

SHEET NO:
 C-105R

CITY OF ALBUQUERQUE



April 28, 2015

Eugenio Valdez, P.E.
Wilson & Company, Inc.
4900 Lang Avenue NE
Albuquerque, NM 87109

**RE: Chaparral Elementary School Portable Relocation, 6325 Milne Rd. NW
Grading and Drainage Plan
Engineer's Stamp Date 4-20-2015 (File: F10-D005)**

Dear Mr. Valdez:

Based upon the information provided in your submittal received 4-21-15, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan in the construction sets when submitting for a building permit.

PO Box 1293 Prior to Certificate of Occupancy release, Engineer Certification per the DPM Checklist will be required.

Albuquerque If you have any questions, you can contact me at 924-3924.

New Mexico 87103

Sincerely,

Jeanne Wolfenbarger, P.E.
Senior Engineer, Planning Dept.
Development Review Services

www.cabq.gov

Orig: Drainage file
c.pdf via Email: Recipient, Monica Ortiz



City of Albuquerque
Planning Department
Development & Building Services Division
DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV. 2/2013)

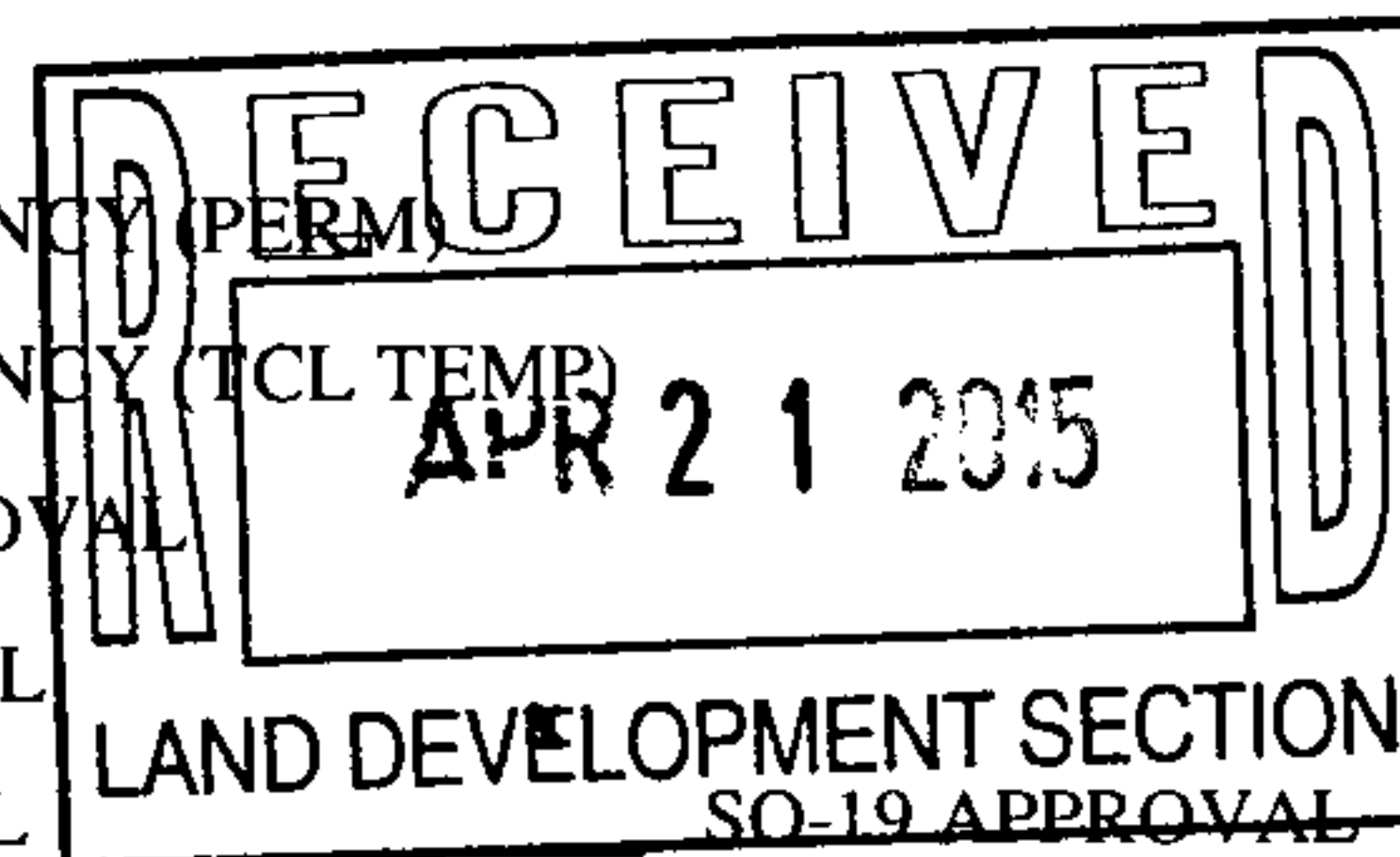
Project Title: Chaparral Elementary School Portable Relocation City Drainage #: F-10 0005
DRB#: _____ EPC#: _____ Work Order #: _____
Legal Description: LOT: B BLOCK 0000, SUBDIVISION CHAPARRAL ES
City Address: 6325 MILNE RD NW, ALBUQUERQUE, NM 87120
+Engineering WILSON & COMPANY Contact: EUGENIO VALDEZ
Address: 4900 LANG AVENUE NE, ALBUQUERQUE NM 87109
Phone #: 505-948-5127 Fax #: 505-348-4055 Email: EEVALDEZ@WILSONCO.COM
Owner: ALBUQUERQUE PUBLIC SCHOOLS Contact: DAVID RITCHEY
Address: 915 OAK SE, ALBUQUERQUE, NM 87106
Phone #: 505-848-8876 Fax #: 505-848-8822 Email: RITCHEY_D@APS.EDU
Architect: APS FACILITIES DESIGN & CONSTRUCTION Contact: DAVID RITCHEY
Address: 915 OAK SE, ALBUQUERQUE, NM 87106
Phone #: 505-848-8876 Fax #: 505-848-8822 Email: RITCHEY_D@APS.EDU
Surveyor: WILSON & COMPANY Contact: BENJAMIN ARAGON
Address: 4900 LANG AVENUE NE, ALBUQUERQUE NM 87109
Phone #: 505-348-4067 Fax #: 505-348-4055 Email: BENJAMIN.ARAGON@WILSONCO.COM
Contractor: RIO CONCHOS Contact: HECTOR CARILLO
Address: _____
Phone #: 877-2553 EXT-101 Fax #: _____ Email: CARILLOH@MSN.COM

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1st SUBMITTAL
☒ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
☐ ENGINEER'S CERT (HYDROLOGY)
☐ CLOMR/LOMR
☒ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ ENGINEERS CERT (TCL)
☐ ENGINEERS CERT (DRB SITE PLAN)
☐ ENGINEERS CERT (ESC)
☐ SO-19
☐ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE 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
☐ CERTIFICATION OF OCCUPANCY (PERM)
☐ CERTIFICATION OF OCCUPANCY (TCL TEMP)
☐ FOUNDATION PERMIT APPROVAL
☐ BUILDING PERMIT APPROVAL
☒ GRADING PERMIT APPROVAL
☒ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☐ GRADING CERTIFICATION
☐ ESC PERMIT APPROVAL
☐ ESC CERT. ACCEPTANCE
☐ OTHER (SPECIFY) _____



WAS A PRE-DEISGN CONFERENCE ATTENDED: ☐ Yes ☒ No ☐ Copy Provided

DATE SUBMITTED: 04/21/2015 By: Keith Thompson

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:

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
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land distributing area, including project less than 1-acre than part of a larger common plan of development

Thompson, Keith L.

From: Valdez, Eugenio E.
Sent: Tuesday, April 21, 2015 8:44 AM
To: Thompson, Keith L.
Subject: FW: F10-D005 (Chaparral Elementary School)

Keith, Print out the email below and take a copy with you for the hardcopy submittal.

Thanks,

Eugenio Valdez, PE
Civil Engineer | Wilson & Company, Inc., Engineers & Architects | (505) 948-5127

-----Original Message-----

From: Wolfenbarger, Jeanne [mailto:jwolfenbarger@cabq.gov]
Sent: Tuesday, April 21, 2015 8:30 AM
To: Valdez, Eugenio E.
Subject: RE: F10-D005 (Chaparral Elementary School)

Eugenio, I have received both your G&D and TCL submittal along with the new plans. Thank you for your comment response letters.

Go ahead and submit hard copies for these plans. It looks like you have addressed all of my comments.

Jeanne

-----Original Message-----

From: Valdez, Eugenio E. [mailto:Gene.Valdez@wilsonco.com]
Sent: Monday, April 20, 2015 4:44 PM
To: Wolfenbarger, Jeanne
Cc: Juarez-Infante, Mario G.; Perea, Christopher A.; War, Salomon G
Subject: RE: F10-D005 (Chaparral Elementary School)

Jean,

Please find the revised G&D for your approval.

Can you send me your confirmation that you have received this submittal?

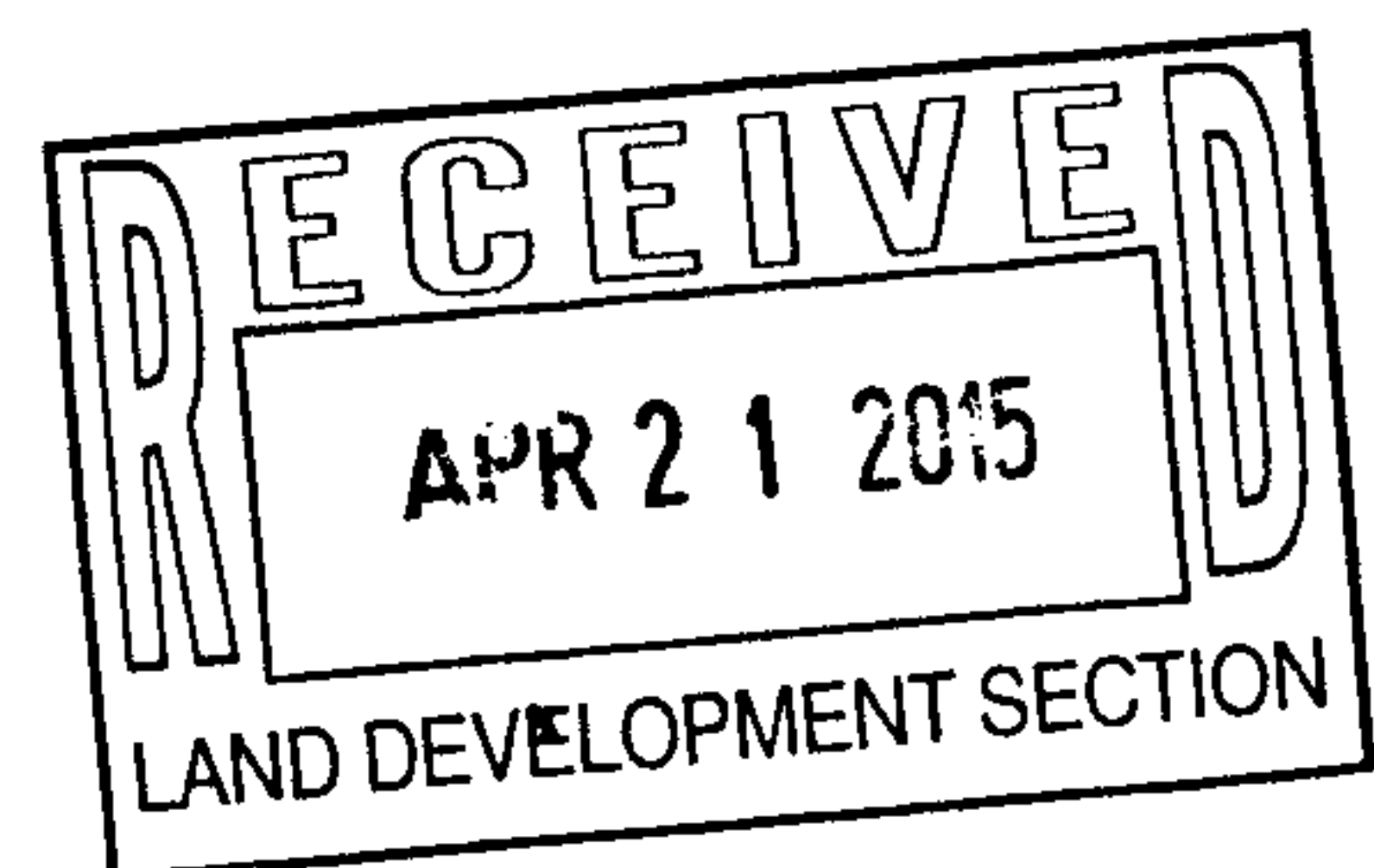
Thanks,

Eugenio Valdez, PE
Civil Engineer | Wilson & Company, Inc., Engineers & Architects | (505) 948-5127

-----Original Message-----

From: Wolfenbarger, Jeanne [mailto:jwolfenbarger@cabq.gov]
Sent: Thursday, April 16, 2015 3:16 PM
To: Valdez, Eugenio E.
Subject: F10-D005 (Chaparral Elementary School)

Mr. Valdez, grading and drainage comments are attached.



Jeanne

Confidential/Proprietary Note:

The information in this email is confidential and may be legally privileged. Access to this email by anyone other than the intended addressee is unauthorized. If you are not the intended recipient of this message, any review, disclosure, copying, distribution, retention, or any action taken or omitted to be taken in reliance on it is prohibited and may be unlawful. If you are not the intended recipient, please reply to or forward a copy of this message to the sender and delete the message, any attachments, and any copies thereof from your system. Thank you.

CITY OF ALBUQUERQUE



April 16, 2015

Eugenio Valdez, PE
Wilson & Company, Inc.
4900 Lang Avenue NE
Albuquerque, NM 87120

**RE: Chaparral Elementary School Portable Relocation
Grading and Drainage Plan
Plan Dated 4-14-15 (File: F10-D005)**

Dear Mr. Valdez:

Based upon the information provided in your submittal received 3-27-15, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

- 1) Please indicate how the first flush volume is to be managed which is defined as 0.34" times the additional impervious area for the site. Show first flush computations on the plan.
- 2) For all proposed pipe inlets and sidewalk culverts, show amount of flow that is captured and the capacity to handle the flow.
- 3) Label existing 18" storm drain pipe on the plan view and the proposed discharge of 11.94 cfs.
- 4) Show direction of runoff flow from the roofs of the portable buildings and any roof drains for the portable buildings. If there is any roof flow directed to the west of the building, show how the flow is to be managed. Show how the roof flow for the three northernmost portable buildings is being managed and if it is being conveyed to the new on-site storm drain with additional information which may include additional spot elevations, and/or inlets.

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

If you have any questions, you can contact me at 924-3924.

Sincerely,

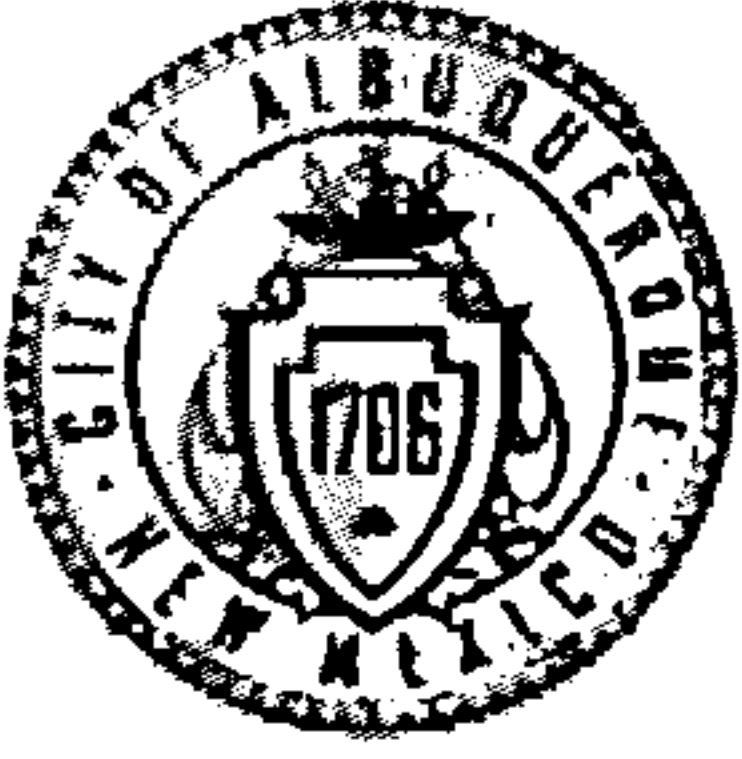
Jeanne Wolfenbarger, P.E.
Senior Engineer, Planning Dept.
Development Review Services

924-3993

Stephen -

Orig: Drainage file
c.pdf Addressee via Email

F10D005_BP_Grading_Cmnt



City of Albuquerque
Planning Department
Development & Building Services Division
DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV. 2/2013)

Project Title: Chaparral Elementary School Portable Relocation City Drainage #: F-10 F10D005
DRB#: _____ EPC#: _____ Work Order #: _____
Legal Description: LOT: B BLOCK 0000, SUBDIVISION CHAPARRAL ES
City Address: 6325 MILNE RD NW, ALBUQUERQUE, NM 87120

Engineering Firm: WILSON & COMPANY Contact: EUGENIO VALDEZ
Address: 4900 LANG AVENUE NE, ALBUQUERQUE NM 87109
Phone #: 505-948-5127 Fax #: 505-348-4055 Email: EEVALDEZ@WILSONCO.COM

Owner: ALBUQUERQUE PUBLIC SCHOOLS Contact: DAVID RITCHEY
Address: 915 OAK SE, ALBUQUERQUE, NM 87106
Phone #: 505-848-8876 Fax #: 505-848-8822 Email: RITCHEY_D@APS.EDU

Architect: APS FACILITIES DESIGN & CONSTRUCTION Contact: DAVID RITCHEY
Address: 915 OAK SE, ALBUQUERQUE, NM 87106
Phone #: 505-848-8876 Fax #: 505-848-8822 Email: RITCHEY_D@APS.EDU

Surveyor: WILSON & COMPANY Contact: BENJAMIN ARAGON
Address: 4900 LANG AVENUE NE, ALBUQUERQUE NM 87109
Phone #: 505-348-4067 Fax #: 505-348-4055 Email: BENJAMIN.ARAGON@WILSONCO.COM

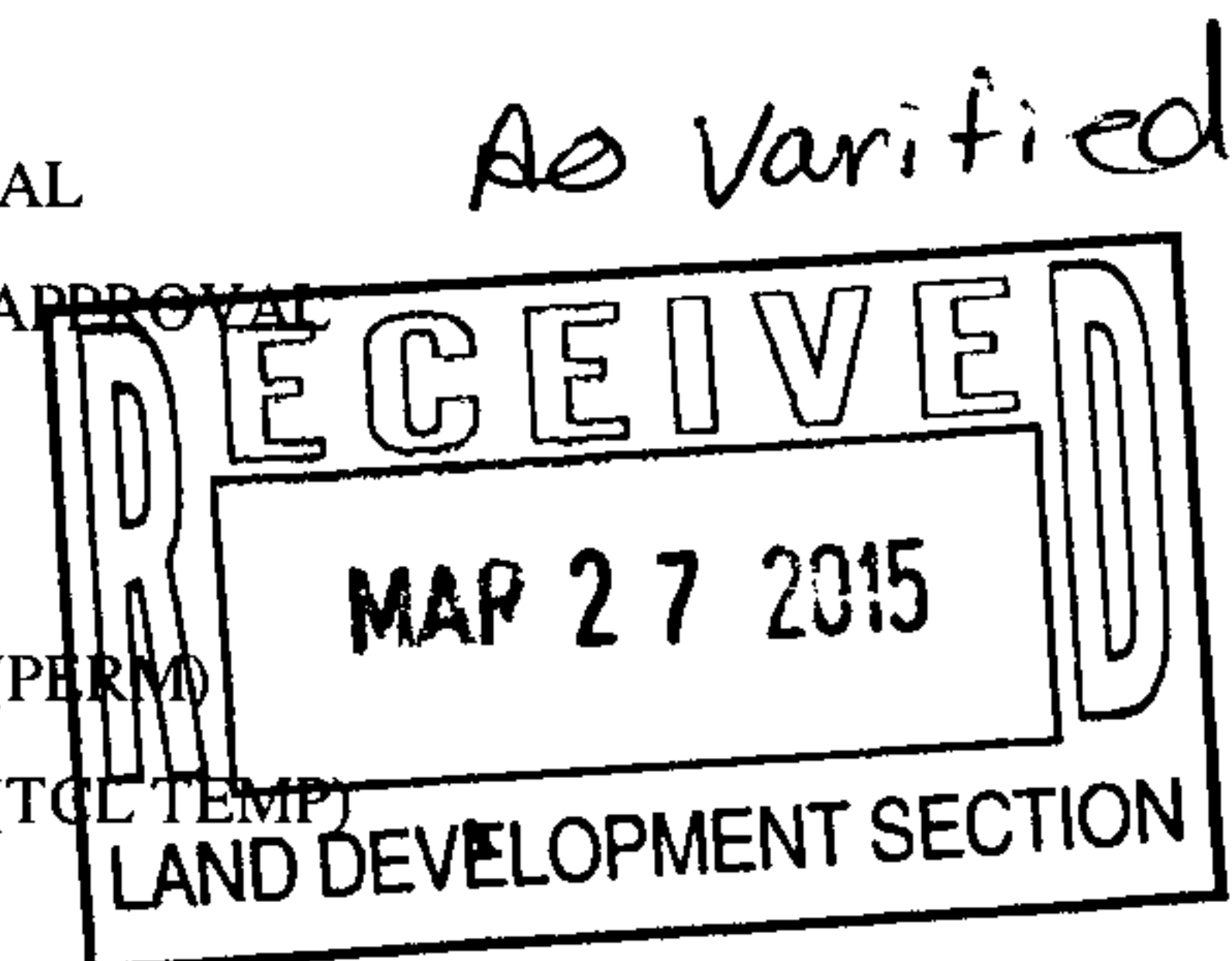
Contractor: RIO CONCHOS Contact: HECTOR CARILLO
Address: _____
Phone #: 877-2553 EXT-101 Fax #: _____ Email: CARILLOH@MSN.COM

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT
☒ DRAINAGE PLAN 1st SUBMITTAL
☐ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
☐ ENGINEER'S CERT (HYDROLOGY)
☐ CLOMR/LOMR
☒ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ ENGINEERS CERT (TCL)
☐ ENGINEERS CERT (DRB SITE PLAN)
☐ ENGINEERS CERT (ESC)
☐ SO-19
☐ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE 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
☐ CERTIFICATION OF OCCUPANCY (PERM)
☐ CERTIFICATION OF OCCUPANCY (TCL TEMP)
☐ FOUNDATION PERMIT APPROVAL
☐ BUILDING PERMIT APPROVAL
☒ GRADING PERMIT APPROVAL
☒ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☐ GRADING CERTIFICATION
☐ SO-19 APPROVAL
☐ ESC PERMIT APPROVAL
☐ ESC CERT. ACCEPTANCE
☐ OTHER (SPECIFY) _____



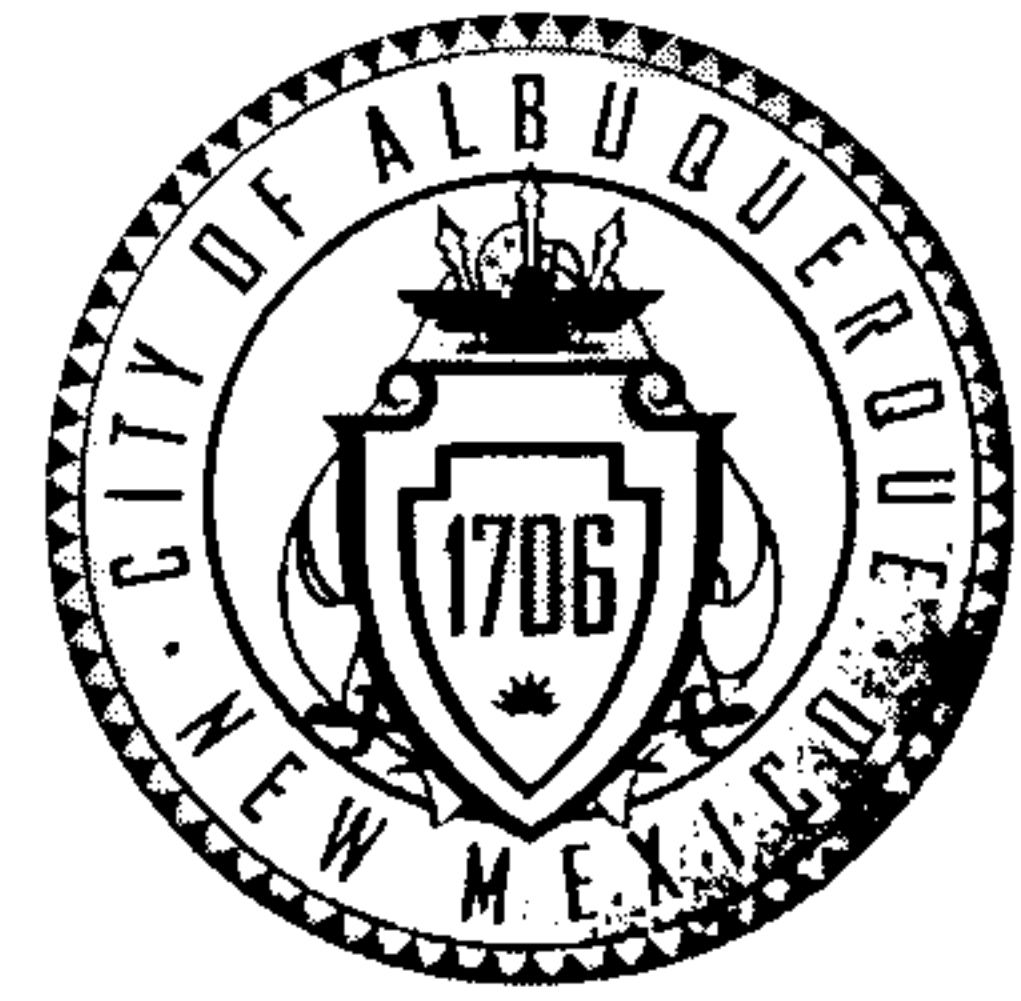
WAS A PRE-DEISGN CONFERENCE ATTENDED: ☐ Yes ☒ No ☐ Copy Provided

DATE SUBMITTED: 03/27/2015 By: KEITH THOMPSON

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:

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
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land distributing area, including project less than 1-acre than part of a larger common plan of development

CITY OF ALBUQUERQUE



December 12, 2014

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

Re: Chaparral E.S. Grading and Drainage Plan, 3625 Milne Rd. NW
Engineer's Stamp dated 05-21-2013 (F-10/D005)
Engineer's Certification dated 12-12-14

Dear Mr. Mortensen,

Based upon the information provided in the submittal received 12-12-14, the above referenced Certification is acceptable for a release of a 90-Day Temporary Certificate of Occupancy by Hydrology.

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

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

C: email, recipient

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: CHAPARRAL ES KINDERGARTEN ADDN ZONE ATLAS/DRNG. FILE #: F10/ D005
 DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: TRACT B, CHAPARRAL ELEMENTARY SCHOOL
 CITY ADDRESS: 6325 MILNE ROAD NW, ALBUQUERQUE, NM 87120

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: DAVID RITCHEY
 ADDRESS: 915 OAK STREET SE PHONE: 505-848-8876
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87106

ARCHITECT: CHERRY SEE REAMES ARCHITECTS, LLP CONTACT: MARIE HOLLOWAY
 ADDRESS: 220 GOLD SW PHONE: 842-1278
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87102

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

CONTRACTOR: SHUMATE CONSTRUCTORS CONTACT: DENNIS THOMPSON
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

TYPE OF SUBMITTAL:

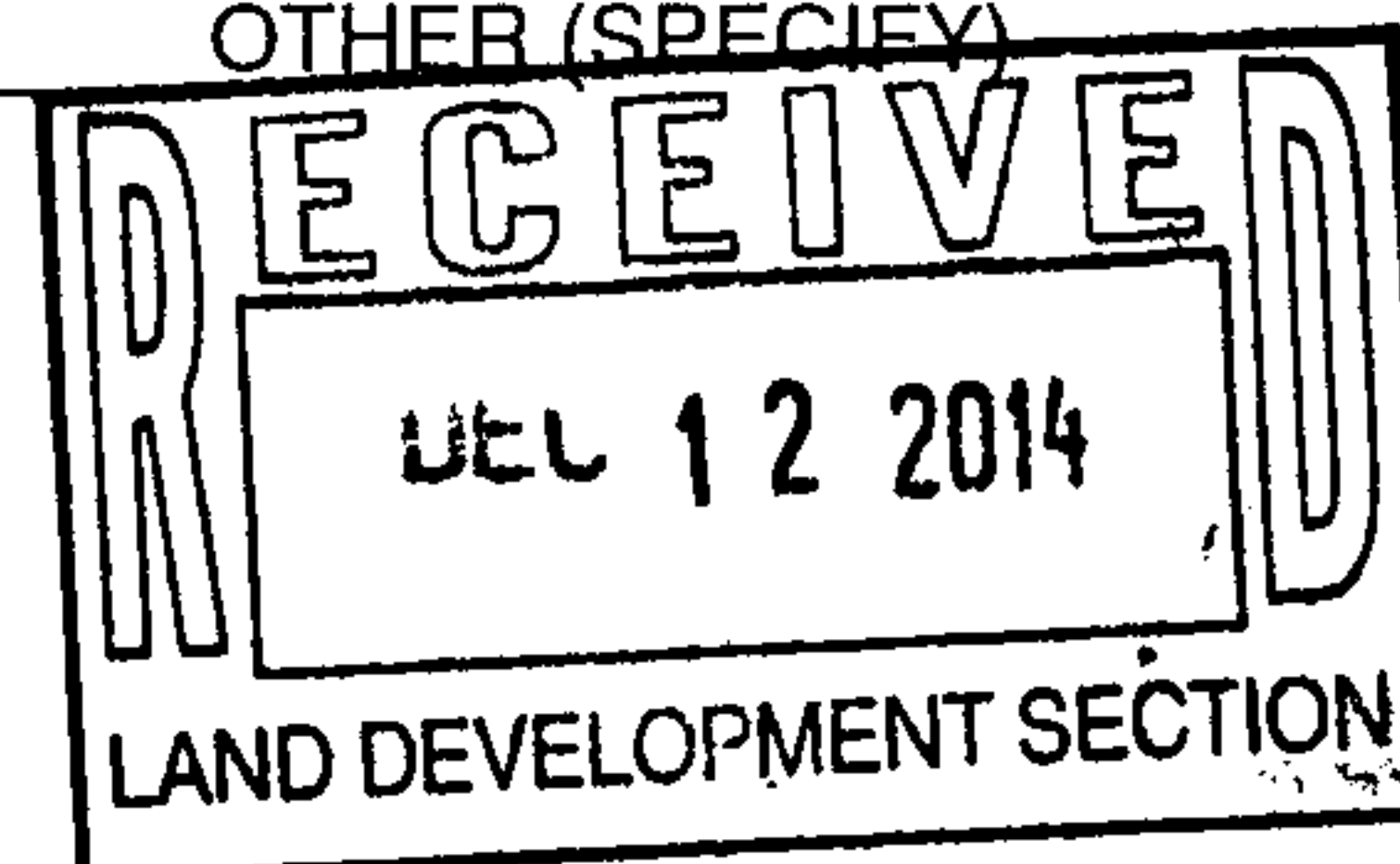
- ☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1st SUBMITTAL, **REQUIRES TCL or equal**
☐ DRAINAGE PLAN RESUBMITTAL (**REVISION/UPDATE**)
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☒ ENGINEER'S CERTIFICATION (HYDROLOGY)
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ ENGINEER'S 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: 12/12/2014 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:

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

Zach Thompson

From: Brian Martinez <billa422@gmail.com>
Sent: Thursday, October 30, 2014 9:14 AM
To: Dennis Thompson; Zach Thompson
Subject: Fwd: FW: Chaparral E.S.
Attachments: DSCN1198.JPG

Dennis,

Here is the SO-19 email.

Brian

----- Forwarded message -----

From: Rodriguez, Jason T. <jtrodriguez@cabq.gov>
Date: Thu, Oct 30, 2014 at 9:10 AM
Subject: FW: Chaparral E.S.
To: "billa422@gmail.com" <billa422@gmail.com>

From: Rodriguez, Jason T.
Sent: Friday, October 17, 2014 8:46 AM
To: Cherne, Curtis
Cc: Harmon Rita T.; brian@shumateconstructors.com
Subject: Chaparral E.S.

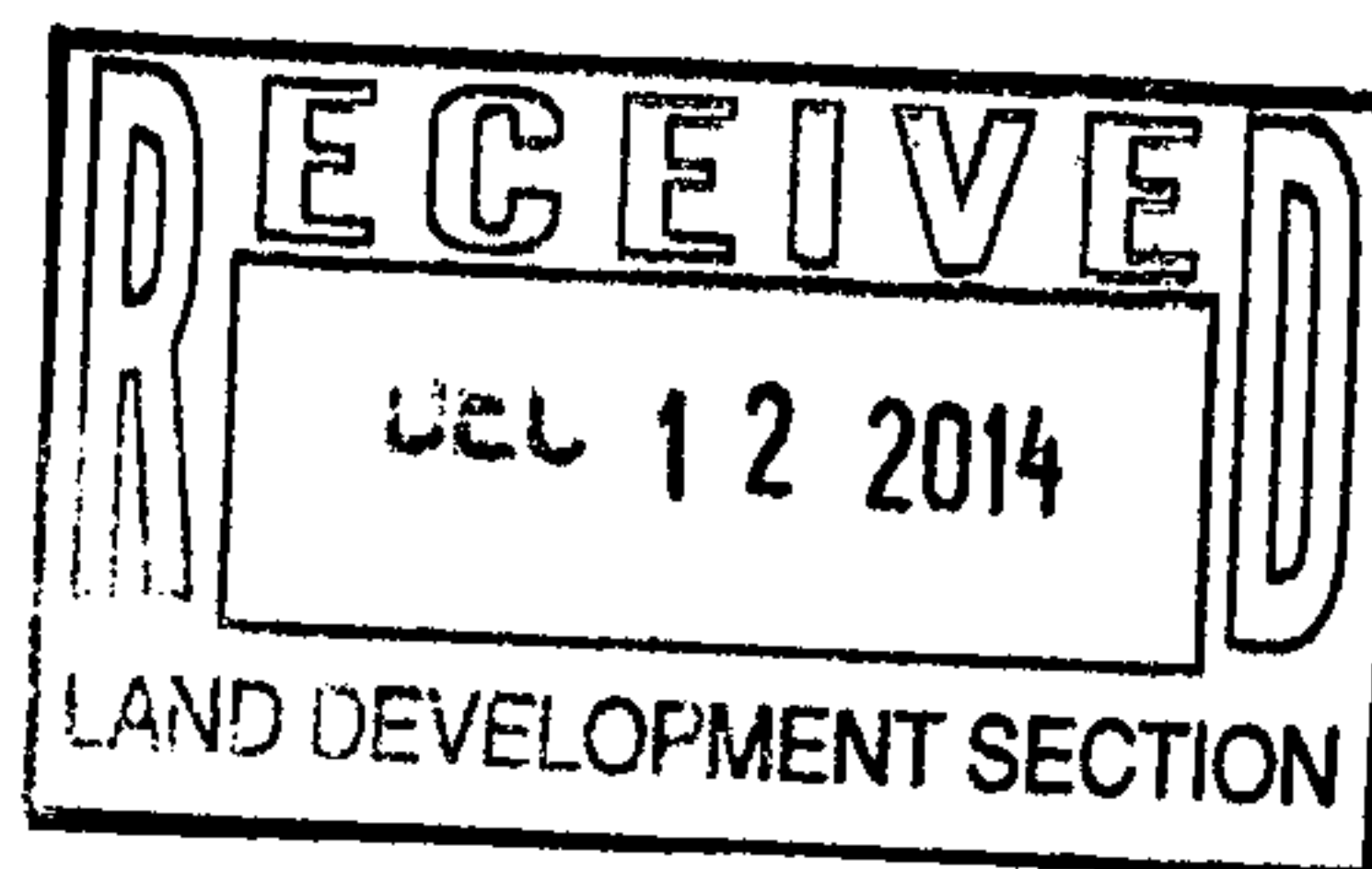
Hi Curtis SO-19 F-10/D005 is complete the modified drain on the north side of pond is good the new one is in and has the riprap in place and the side walk culvert is also a pass if you need any more let me know thank you.

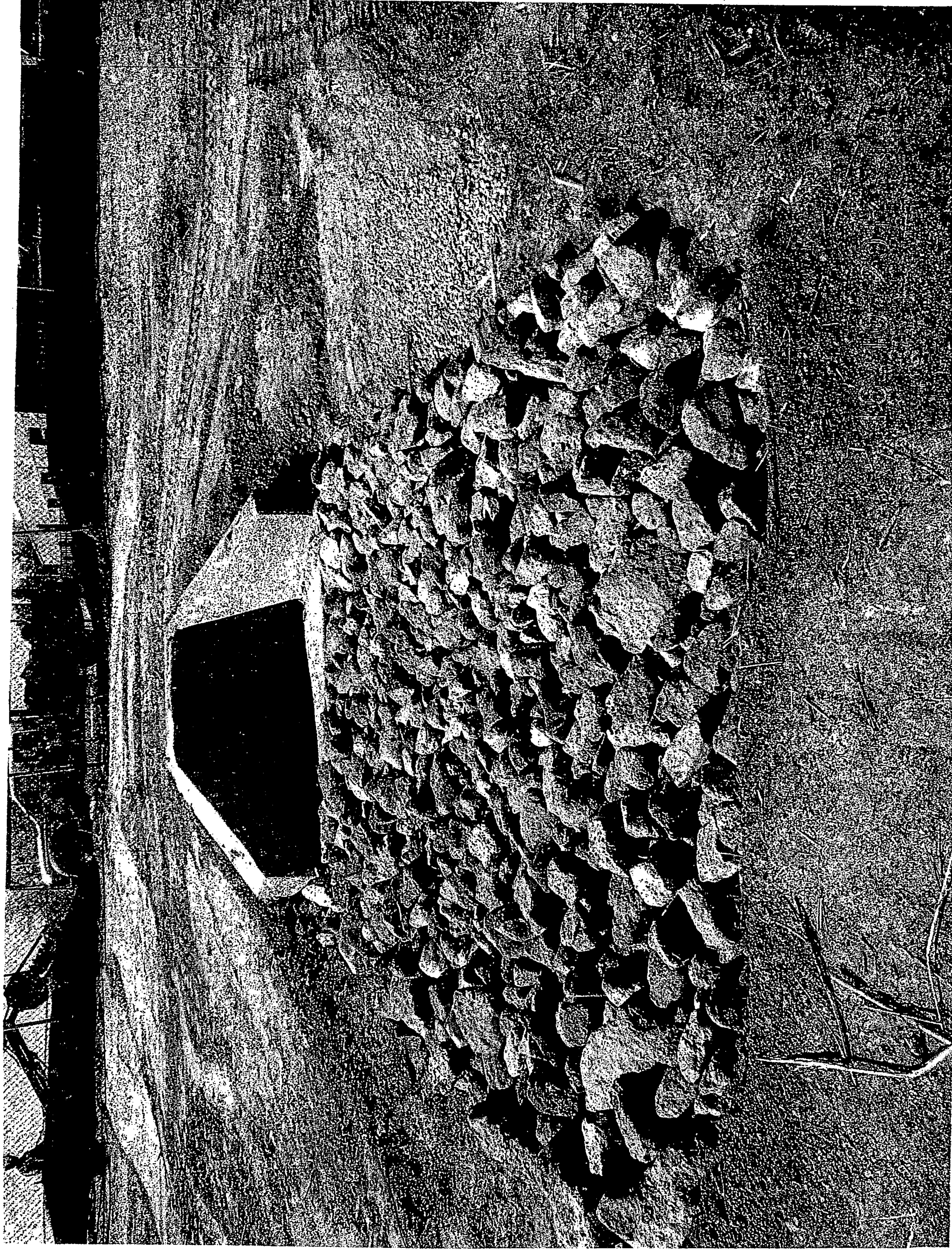
Jason Rodriguez C.O.A. Storm Maintenance

Office 505-857-8607

Cell 505-235-8016

E-mail jtrodriguez@cabq.gov





Jeffrey Mortensen

From: geotestinc@aol.com
Sent: Thursday, December 11, 2014 1:16 PM
To: ritchey_d@aps.edu; msholloway@cherryseereames.com; cbacchus@swcp.com; shumateconstructors@gmail.com; mazzola@aps.edu; Benjamin.harris@aps.edu; P12-003_Chaparral_Eleme.09.05_Quality_Controls_Materials_Testing@docs.e-builder.net; billa422@gmail.com; zacharybo@gmail.com; Jeffrey Mortensen; oviorica@nmpsfa.org
Subject: Chaparral Elementary School Additions-SO#19-Revision 2
Attachments: 30810 121114 APS-Chaparral Elementary School Additions-SO#19 Revised #2.pdf

Attached

Cathy Byres
Geo-Test Inc.
Phone 505-857-0933
Fax 505-857-0803
geotestinc@aol.com

December 11, 2014

REVISED REPORT No 2

Albuquerque Public Schools
 Facilities Design & Construction
 915 Oak Street SE
 Albuquerque, NM 87106

Job No:3-30810

PROJECT: Chaparral Elementary School Additions – SO#19

Please find enclosed the following test results conducted on the above referenced Project (SO#19 Permit Work). The following test results were tabulated from a review of the general project test results, and by also conducting additional site specific compaction testing on December 10, 2014.

Results of Field Density tests performed at the above referenced project:

TEST NO.	LOCATION	DRY DENSITY (PCF)	% MOISTURE	MAXIMUM DENSITY (PCF)	OPTIMUM MOISTURE	% COMPACTION	% REQUIRED
	12" Storm Drain Backfill Southeast Corner Area						
787 Date 10/29/13	5' East of East Drop Inlet, At existing Grade	118.4	7.5	121.3	9.3	97.6	95
1746 Date 12/10/14	10' West of Head Wall, At Grade	115.7	6.5	121.3	9.3	95.4	95
	30" Storm Drain Backfill Northeast Corner Area						
803 Date 10/30/13	10' East of Manhole, Bottom of Trench	116.3	7.4	121.3	9.3	95.7	95
804 Date 10/30/13	30' East of Manhole, Bottom of Trench	116.2	7.6	121.3	9.3	95.8	95
805 Date 10/30/13	10' East of Manhole, Springline North side	116.7	7.9	121.3	9.3	96.2	95
806 Date 10/30/13	10' East of Manhole, Springline, South Side	117.1	8.1	121.3	9.3	96.5	95

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TEST No.	LOCATION	DRY DENSITY (PCF)	% MOISTURE	MAXIMUM DENSITY (PCF)	OPTIMUM MOISTURE	% COMPACT-ION	% REQUIRED
807 Date 10/30/13	30' East of Manhole, Springline, North Side	116.4	7.8	121.3	9.3	96.0	95
808 Date 10/30/13	30' East of Manhole, Springline, South side	116.9	8.0	121.3	9.3	96.4	95
821 Date 10/31/13	10' East of Manhole, at Existing Grade	118.9	9.0	121.3	9.3	98.0	95
822 Date 10/31/13	30' East of Manhole, at Existing Grade	119.5	9.3	121.3	9.3	98.5	95
1747 Date 12/10/14	30" Storm Drain Backfill 5' West of Head Wall, -1.5	115.5	6.3	121.3	9.3	95.2	95
	South Parking Sidewalk, Subgrade						
1682 Date 9/25/13	South Parking Area East Curb Line and Sidewalk Culvert, Finish Grade	116.7	8.3	121.3	9.3	96.4	95

Above test results represent conditions at the described location and elevation at the time of testing. Geo-Test, Inc. makes no recommendations nor conclusions relative to the engineering or scientific aspects of the work performed.

Respectfully submitted:

GEO-TEST, INC.

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Tim Byres, SET

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GEO-TEST

TB/cb E-Builders-E-Mail

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December 2, 2013

Albuquerque Public Schools
Facilities Design & Construction
915 Oak Street SE
Albuquerque, NM 87106

Job No.:3-30810

REPORT OF CONCRETE SPECIMENS	
PROJECT:	Chaparral Elementary School Additions
LOCATION OF SAMPLE:	Northeast Corner Manhole Base and Outlet Head Wall, 30"
SLUMP(ASTM C-143):	2.5"
ENTRAINED AIR (ASTM C-231, TYPE B)	7.0%
YIELD (CU.YDS.):	Batched: 4.0 Calc: 4.0
WATER/CEMENT RATIO:*	.35
UNIT WEIGHT:(ASTM C-138)	138.0 lbs/ft³
CEMENT FACTOR:*	462.3 lbs/yds³
SUPPLIER:	Coyote, Truck #500, Ticket # 187822
CONCRETE CODE:	156
SAMPLED BY:	Geo-Test, Inc.
DATE MOLDED:	11/01/13
DELIVERED:	11/02/13
28 DAY DESIGN STRENGTH (psi)	3000

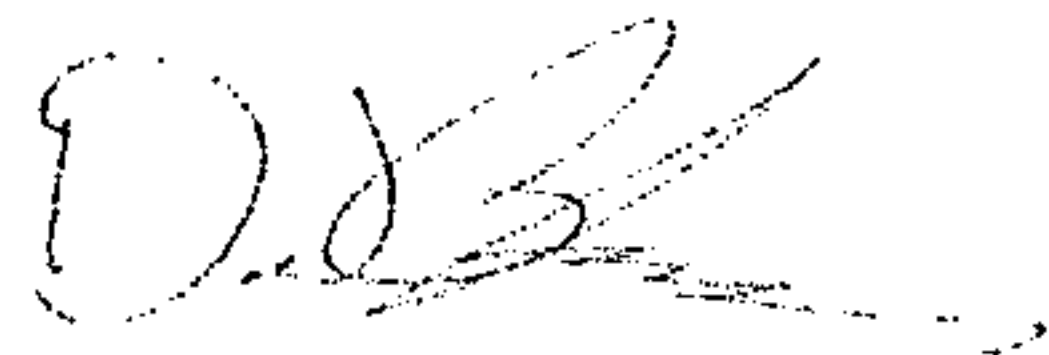
COMPRESSIVE STRENGTH OF CONCRETE SPECIMENS (ASTM C-39)

Specimen No.	Specimen Diameter (in)	Specimen Area	Date Tested	Age Days	Total Load (lbs)	Compressive Strength (psi)	28-Day Design Strength	Type Fracture
30810-77	4.00	12.57	11/08/13	7	44680	3560	3000	3
30810-78	4.00	12.57	11/29/13	28	58150	4630	3000	3
30810-79	4.00	12.57	11/29/13	28	63720	5070	3000	3
30810-80	4.00	12.57	11/29/13	28	60920	4850	3000	3

Concrete Temperature(ASTM C1064): 71°F
Ambient Temperature: 65°F
Water added on site: 0 Gal.

*All Calculations Based on Delivery Ticket Information

Respectfully Submitted:
GEO-TEST, INC.



David Olsen, Supervising Laboratory Tech

Cc: cbacchus@swcp.com
shumateconstructors@gmail.com
zacharybo@gmail.com
billa422@gmail.com
rkearney@nmopsfa.org
ritchev_d@aps.edu

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GEO-TEST

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msholloway@cherryseereames.com
E-Builders-E-Mail

DO/cb

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March 6, 2014

 Albuquerque Public Schools
 Facilities Design & Construction
 915 Oak Street SE
 Albuquerque, NM 87106

Job No.:3-30810

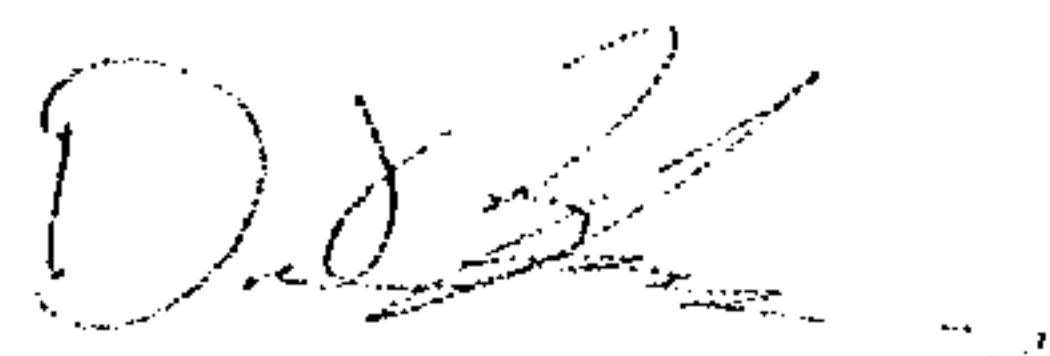
REPORT OF CONCRETE SPECIMENS	
PROJECT:	Chaparral Elementary School Additions
LOCATION OF SAMPLE:	Storm Drain Head Wall 12" Outside Fence, Mechanical Room Pad Extensions, Hot Box Slab
SLUMP:	3.0"
ENTRAINED AIR (ASTM C-231, TYPE B)	5.8%
YIELD (CU.YDS.):	Batched: 5.0 Calc: 5.0
WATER/CEMENT RATIO:*	.45
UNIT WEIGHT:(ASTM C-138)	137.5 lbs/ft³
CEMENT FACTOR:*	375.6 lbs/yds³
SUPPLIER:	Lafarge , Truck #4780201, Ticket # 15105678
CONCRETE CODE:	RMXGE30AB8V
SAMPLED BY:	Geo-Test, Inc.
DATE MOLDED:	2/06/14
DELIVERED:	2/07/14
28 DAY DESIGN STRENGTH (psi)	3000

COMPRESSIVE STRENGTH OF CONCRETE SPECIMENS (ASTM C-39)

Specimen No.	Specimen Diameter (in)	Specimen Area	Date Tested	Age Days	Total Load (lbs)	Compressive Strength (psi)	28-Day Design Strength	Type Fracture
30810-328	4.00	12.57	2/13/14	7	39010	3100	3000	3
30810-329	4.00	12.57	2/13/14	7	41750	3320	3000	3
30810-330	4.00	12.57	2/13/14	7	41370	3290	3000	3
30810-331	4.00	12.57	3/06/14	28	46420	3690	3000	3
30810-332	4.00	12.57	3/06/14	28	47360	3770	3000	3
30810-333	4.00	12.57	3/06/14	28	45210	3600	3000	3
30810-334	4.00	12.57	3/06/14	28	47650	3790	3000	3
30810-335	4.00	12.57	3/06/14	28	47850	3810	3000	3
30810-336	4.00	12.57	3/06/14	28	47040	3740	3000	3

 Concrete Temperature(ASTM C1064): 70°F
 Ambient Temperature: 22°F
 Water added on site: 5 Gal.

*All Calculations Based on Delivery Ticket Information

 Respectfully Submitted:
GEO-TEST, INC.


David Olsen, Supervising Laboratory Tech

 Cc: cbacchus@swcp.com
shumateconstructors@gmail.com
zacharybo@gmail.com

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October 27, 2014

Albuquerque Public Schools
Facilities Design & Construction
915 Oak Street SE
Albuquerque, NM 87106

Job No.:3-30810

REPORT OF CONCRETE SPECIMENS	
PROJECT:	Chaparral Elementary School Additions
LOCATION OF SAMPLE:	South Bus Loop South Entrance West Side Entrance West Side Curb Line, Sidewalk Culvert
SLUMP(ASTM C-143):	1.5"
ENTRAINED AIR (ASTM C-231, TYPE B)	5.0%
YIELD (CU.YDS.):	Batched: 10.0 Calc: 9.9
WATER/CEMENT RATIO:*	.42
UNIT WEIGHT:(ASTM C-138)	139.5 lbs/ft ³
CEMENT FACTOR:*	531.7 lbs/yds ³
SUPPLIER:	Coyote, Truck # 79, Ticket # 200342
CONCRETE CODE:	400
SAMPLED BY:	Geo-Test, Inc.
DATE MOLDED:	9/26/14
DELIVERED:	9/27/14
28 DAY DESIGN STRENGTH (psi)	4000

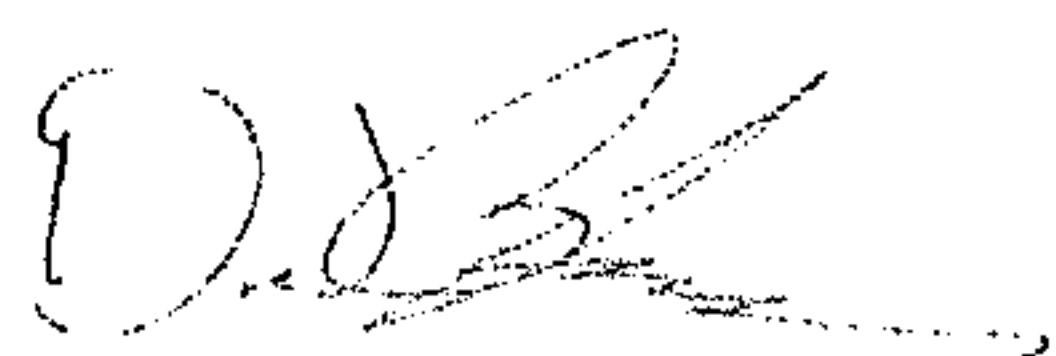
COMPRESSIVE STRENGTH OF CONCRETE SPECIMENS (ASTM C-39)

Specimen No.	Specimen Diameter (in)	Specimen Area	Date Tested	Age Days	Total Load (lbs)	Compressive Strength (psi)	28-Day Design Strength	Type Fracture
30810-738	4.00	12.57	10/03/14	7	53060	4220	4000	3
30810-739	4.00	12.57	10/24/14	28	62510	4980	4000	3
30810-740	4.00	12.57	10/24/14	28	64860	5160	4000	3
30810-741	4.00	12.57	10/24/14	28	61220	4870	4000	3

Concrete Temperature(ASTM C1064): 78°F
Ambient Temperature: 60°F
Water added on site: 0 Gal.

*All Calculations Based on Delivery Ticket Information

Respectfully Submitted:
GEO-TEST, INC.



David Olsen, Supervising Laboratory Tech

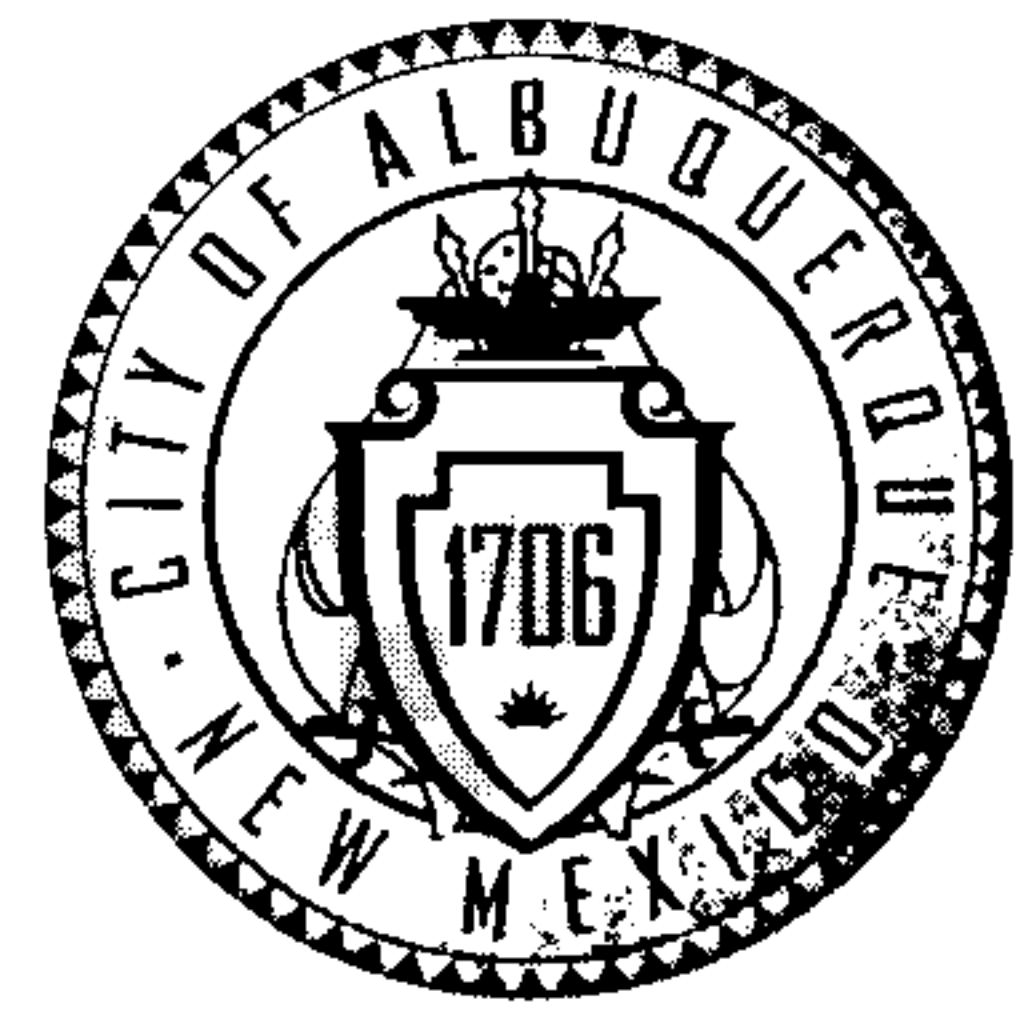
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CITY OF ALBUQUERQUE



June 10, 2014

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

**RE: Chaparral ES Kindergarten ADDN
Grading and Drainage Plan for Phasing
Engineers Stamp Date 5/21/14 (F10D005)**

Dear Mr. Mortensen,

Based upon the information provided in your submittal received 5/21/14, the above referenced Grading and Drainage Plan is approved for Phasing and revisions.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Upon completion of the project, Hydrology is asking for an electronic copy, in .pdf format, of the certification for our records. This certification can be e-mailed to: rrael@cabq.gov.

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

If you have any questions, please contact me at 924-3986 or Rudy Rael at 924-3977.

Sincerely,

Curtis Cherne, P.E.
Principal Engineer, Hydrology
Planning Department

RR/CC
C: File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

F10 D005

PROJECT TITLE: CHAPARRAL ES KINDERGARTEN ADDN ZONE ATLAS/DRNG. FILE #: F10/ D005
 DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: TRACT B, CHAPARRAL ELEMENTARY SCHOOL
 CITY ADDRESS: 6325 MILNE ROAD NW, ALBUQUERQUE, NM 87120

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: DAVID RITCHEY
 ADDRESS: 915 OAK STREET SE PHONE: 505-848-8876
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87106

ARCHITECT: CHERRY SEE REAMES ARCHITECTS, LLP CONTACT: MARIE HOLLOWAY
 ADDRESS: 220 GOLD SW PHONE: 842-1278
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87102

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

CONTRACTOR: SHUMATE CONSTRUCTORS CONTACT: DENNIS THOMPSON
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1st SUBMITTAL, **REQUIRES TCL or equal**
☐ DRAINAGE PLAN RESUBMITTAL (**REVISION/UPDATE**)
☐ 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 (**PHASING PLAN & REVISIONS**)

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

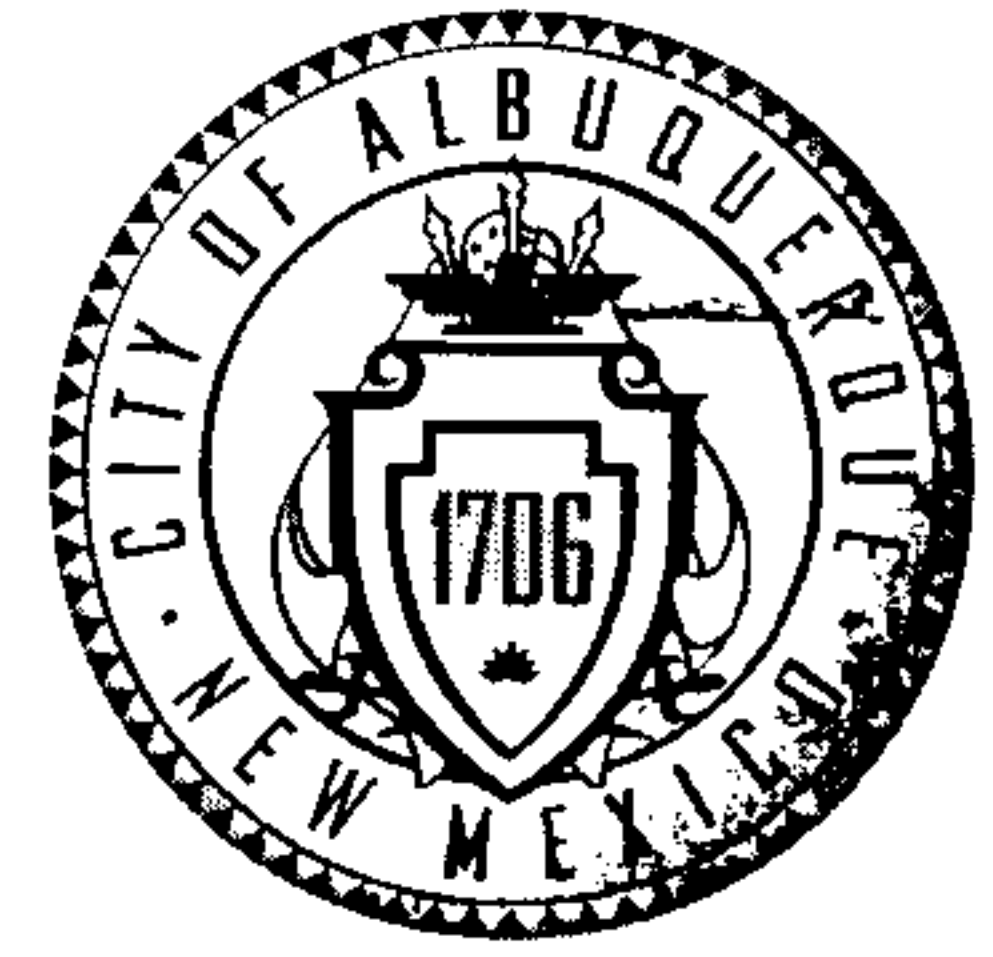


DATE SUBMITTED: 05/21/2014 BY: JEFFREY G. MORTENSEN

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



April 8, 2013

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

Re: Chaparral E.S. Grading and Drainage Plan, 3625 Milne Rd. NW
Engineer's Stamp dated 03-28-2013 (F-10/D005)

Dear Mr. Mortensen,

Based upon the information provided in your submittal dated 03-28-13, the above referenced plan is approved for Building Permit with Conditions. Any new penetrations to the Ladera Basin 16 South Sump are required to be constructed under Work Order. Due to this restriction Hydrology is also requesting that the proposed sidewalk culvert discharging to Milne Road from the new south parking lot be constructed under Work Order as well. Please add notes to the culvert that call for the bolts to be tack welded to the plate and for the culvert to extend back 2 ft. from the property line.

Based upon the information provided in your submittal, the Grading and Drainage plan dated 03-28-13 meets the requirements for Building Permit. However, please be advised that before a building permit can be issued an Erosion and Sediment Control Plan (ESC) must be prepared, submitted and approved by the Hydrology Department.

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

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

Sincerely,

Shahab Biazar, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: email

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 01/06 - KDM)

PROJECT TITLE: Chaparral Elementary School ZONE ATLAS/DRNG. FILE #: F-10/D005
 DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Tracts A and B, Chaparral Elementary School
 CITY ADDRESS: 6325 Milne Rd NW

ENGINEERING FIRM: High Mesa Consulting Group CONTACT: Jeffrey Mortensen, NMPE 8547
 ADDRESS: 6010-B Midway Park Blvd. NE PHONE: (505) 345-4250
 CITY, STATE: Albuquerque, NM ZIP CODE: 87109

OWNER: Albuquerque Public Schools CONTACT: David Ritchey
 ADDRESS: 915 Oak St SE PHONE: (505) 848-8876
 CITY, STATE: Albuquerque, NM ZIP CODE: 87106

ARCHITECT: Cherry/See/Reames Architects CONTACT: Tina Reames
 ADDRESS: 220 Gold Avenue SW PHONE: 505-842-1278
 CITY, STATE: Albuquerque, NM ZIP CODE: 87102

SURVEYOR: High Mesa Consulting Group CONTACT: Charles Cala, NMPS 11184
 ADDRESS: 6010-B Midway Park Blvd. NE PHONE: (505) 345-4250
 CITY, STATE: Albuquerque, NM ZIP CODE: 87109

CONTRACTOR: _____ CONTACT: _____
 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

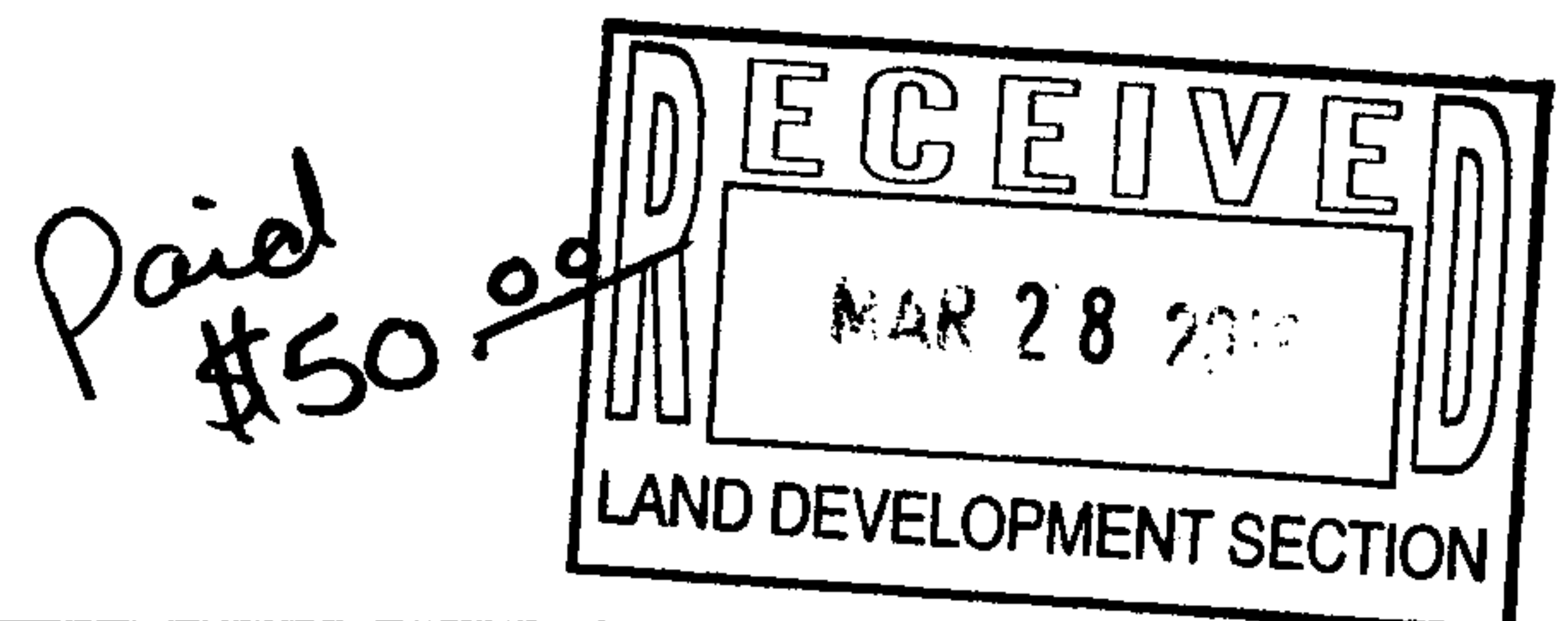
CHECK TYPE OF APPROVAL SOUGHT:

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☐ 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): SO#19

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
☐ NO
☒ COPY PROVIDED

DATE SUBMITTED: 03-28-13 BY: Justin Schara



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

HYDROLOGY & TRANSPORTATION PREDESIGN CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NUMBER: F10/D5 DATE: 02-12-2009
CROSS REFERENCE NUMBERS: EPC _____ DRB _____ DRC _____ HMCG 2009.004.1
SUBJECT: CHAPARRAL ELEMENTARY SCHOOL ADDITIONAL & SITE IMPROVEMENTS
STREET ADDRESS: 6325 MILNE ROAD NW
SUBDIVISION NAME: TRACT B. CHAPARRAL ELEMENTARY SCHOOL

TYPE OF APPROVAL

- ☐ PRELIMINARY & FINAL PLAT
☒ BUILDING PERMIT
☐ GRADING PERMIT
☐ SITE DEVELOPMENT PLAN FOR SUBDIVISION
☒ OTHER MASTER DRAINAGE PLAN UPDATE

ATTENDEE:
JEFF MORTENSEN
BRAD BINGHAM

ORGANIZATION:
HMCG
HYDROLOGY

PHONE:
345-4250
924-3986

FINDINGS:

BACKGROUND -

- A. THE ORIGINAL SUBMITTAL FOR THIS SITE IS DATED 2/9/83 (BY HMCG)
- B. SINCE THE SITE WAS ORIGINALLY DEVELOPED, ADDITIONAL PORTABLE CLSSROOMS HAVE BEEN ADDED THAT HAVE NOT BEEN DEPICTED ON SUBSEQUENT DRAINAGE SUBMITTALS
- C. NO SUBSEQUENT SUBMITTALS FOUND IN THE CITY DRAINAGE FILES EXCEPT BUS LANE AND PARKING LOT EXPANSION THAT HAVE BEEN APPROVED BUT NOT CERTIFIED BY THE ENGINEER OF RECORD (NOT HMCG)
- D. NEW PUBLIC STORM DRAIN CONSTRUCTED THROUGH SITE PROVIDING OUTFALL FOR RINCONADA MESA TO LADERA BASIN #16B SOUTH SUMP (NOT SHOWN ON EITHER DRAINAGE SUBMITTAL REFERENCED ABOVE)
- E. THE 1983 SUBMITTAL IS BASED UPON OBSOLETE HYDROLOGY METHODS NO LONGER ACCEPTED BY THE COA
- F. THE 1983 SUBMITTAL WAS APPROVED WITHOUT REQUIRING AN ENGINEER'S DRAINAGE CERTIFICATION; 1983 SUBMITTAL PRE-DATES THE REQUIREMENT OF CERTIFICATIONS FOR CERTIFICATE OF OCCUPANCY APPROVAL

REQUIREMENTS FOR BUILDING PERMIT -

- A. SITE SPECIFIC DRAINAGE SUBMITTAL REQUIRED TO SUPPORT BUILDING PERMIT APPROVAL
- B. SUBMITTAL FOR BUILDING PERMIT NEEDS TO REFERENCE AN UPDATE MASTER DRAINAGE PLAN (MDP) FOR THE SITE (SEE BELOW FOR REQUIREMENTS)
- C. FREE DISCHARGE TO THE LADERA BASIN #16B SOUTH SUMP PERMISSIVE AS WELL AS PROGRAMMED FOR THIS SITE AS WELL AS UPSTREAM CONTRIBUTING WATERSHED
- D. DISCHARGE TO THE LADERA BASIN #16B SOUTH SUMP MUST UTILIZE EXISTING POINTS OF DISCHARGE (I.E. NO NEW PENETRATIONS INTO THE BASIN WITHOUT WORK ORDER)
- E. THE LADERA BASIN #16B SOUTH SUMP IS OWNED, OPERATED AND MAINTAINED BY THE CITY OF ALBUQUERQUE
- F. CONNECTIONS TO ANY OF THE PUBLIC STORM DRAIN FACILITIES DISCHARGING INTO THE LADERA BASIN #16B SOUTH SUMP WILL REQUIRE SO #19 APPROVAL(S)
- G. REFERENCE DRAINAGE BASIN(S) AS DEFINED BY THE MDP REFERENCED AND DESCRIBED BELOW

H. IDENTIFY ANY IMPACTS (CHANGES IN BASIN BOUNDARIES, INCREASES OR DECREASES IN RUNOFF, METHODS OF DISCHARGE) TO THE DRAINAGE BASINS AS DEFINED BY THE MDP REFERENCED AND DESCRIBED BELOW

MASTER DRAINAGE PLAN -

- A. SUBMITTAL SHOULD INCLUDE/ADDRESS THE FOLLOWING MINIMUM CRITERIA:
- 1) CURRENT SITE BOUNDARIES (PROPERTY REPLATTED SINCE DATE OF ORIGINAL SUBMITTAL)
 - 2) IDENTIFY EXISTING DRAINAGE BASIN BOUNDARIES PER CURRENT CONDITIONS
 - 3) PROVIDE A DISCUSSION OF EXISTING DRAINAGE BASINS AS DEFINED ABOVE
 - 4) PROVIDE CALCULATIONS FOR THE EXISTING DRAINAGE BASINS AS DEFINED ABOVE
 - 5) EXISTING PUBLIC STORM DRAINAGE IMPROVEMENTS WITHIN AND IMMEDIATELY ADJACENT TO THE SITE
 - 6) FREE DISCHARGE REQUIREMENTS AND CRITERIA FOR SUBSEQUENT ONSITE DEVELOPMENT
- B. THE UPDATED MDP DOES NOT HAVE TO ADDRESS FUTURE PLANNED IMPROVEMENTS; IT IS INTENDED TO PROVIDE A BASIS FOR SUPPORTING SUBSEQUENT SITE SPECIFIC PLANS
- C. THE UPDATED MDP WILL DOCUMENT ALL CHANGES SINCE THE ORIGINAL 1983 PLAN AND THEREBY TAKE THE PLACE OF AN ENGINEER'S DRAINAGE CERTIFICATION OF PREVIOUSLY APPROVED SUBMITTALS AND/OR SUBMITTALS WITH NO OFFICIAL STATUS

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: 

TITLE: CONSULTANT

DATE: 02-16-2009

SIGNED: 

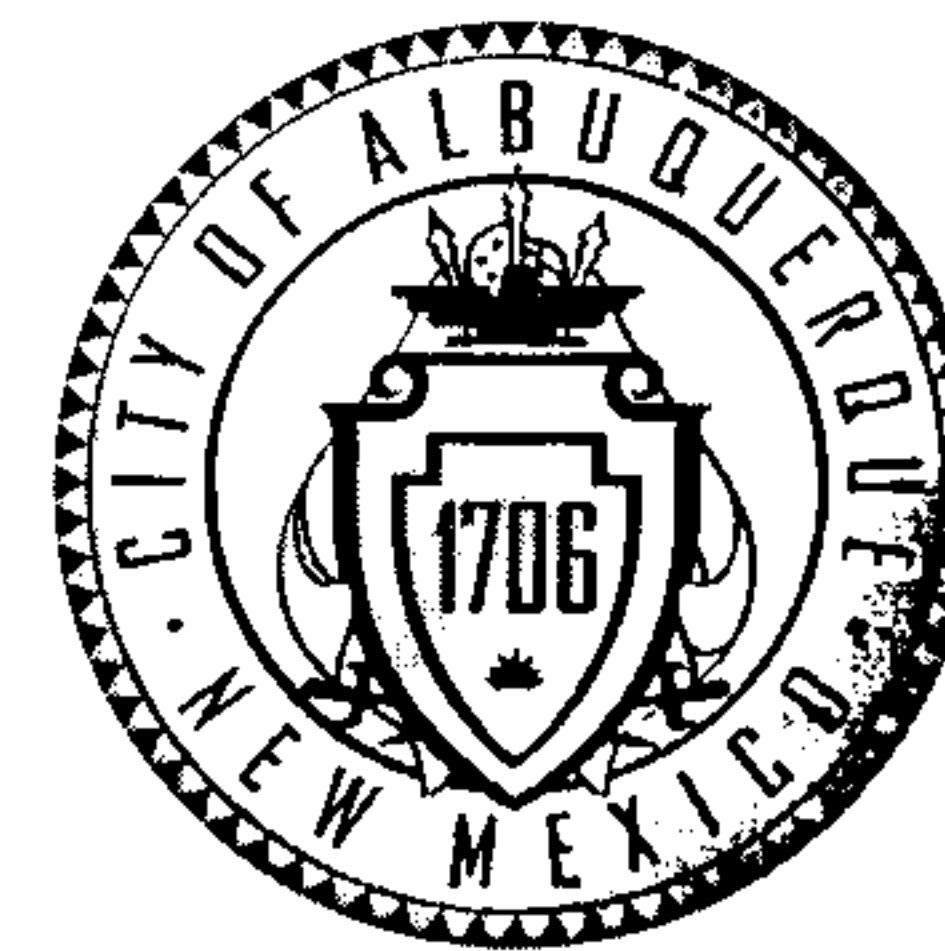
TITLE: CITY HYDROLOGIST

DATE: 2-17-09

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

HMCG PROJECT NO. 2009.004.1

CITY OF ALBUQUERQUE



January 7, 2013

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

**Re: Chaparral Elem. Sch. Track & Field,
Grading and Drainage Certification - Accepted
Engineer's Stamp dated: 12-22-11 (F-10/D005)
Certification dated: 01-02-13**

Dear Mr. Mortensen,

PO Box 1293

Thank you for providing an Engineer Certification for the Grading/Drainage Plan received on 01-04-13, for the above referenced plan number. This information will be placed in the project file.

Albuquerque

If you have any questions, I can be contacted at 924-3695.

NM 87103

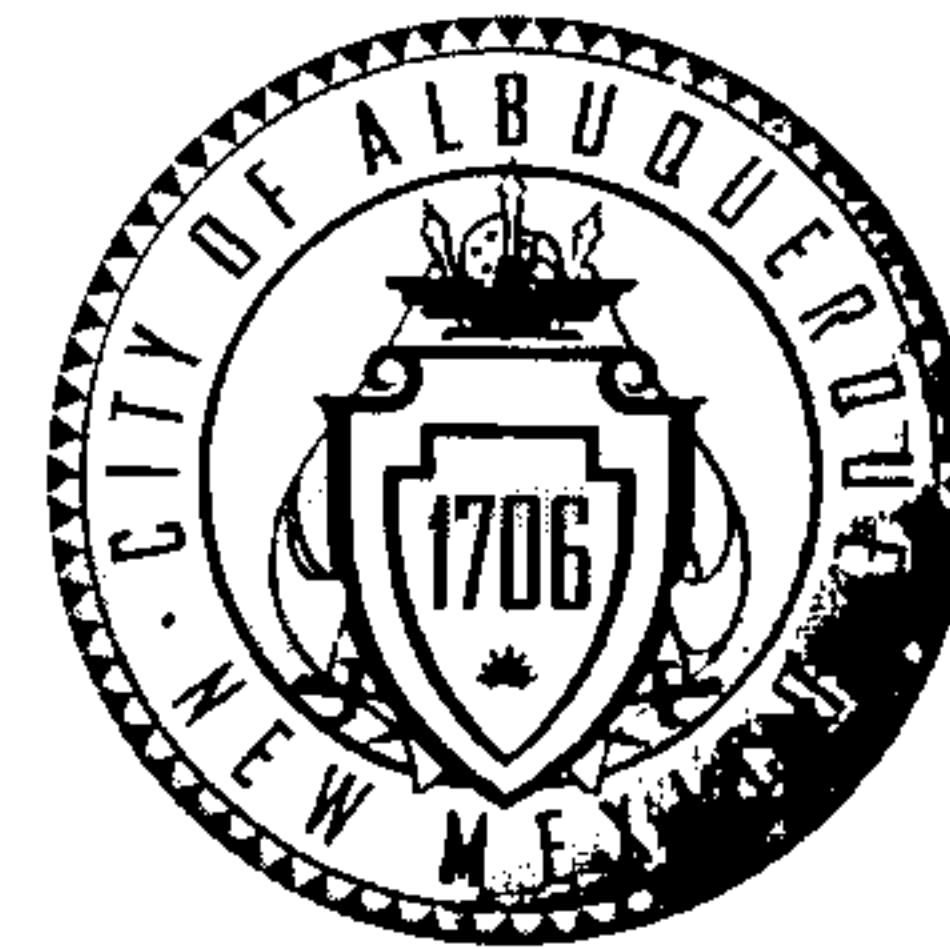
Sincerely,

Shahab Biazar, P.E.
Senior Engineer, Planning Dept.-Hydrology
Development and Building Services

www.cabq.gov

C: file
E-mail: addressee

CITY OF ALBUQUERQUE



February 15, 2013

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

Re: Chaparral E.S. Parent Drop Off Pkg Lot

Paving Certification

Engineer's Stamp Date: 01-31-13

Certification Date: 01-31-13

Dear Mr. Mortensen,

PO Box 1293

Thank you for providing an Engineer Paving Certification for the Grading and Drainage Plan received on 02-01-13, for the above referenced plan number F10-D005. This information will be placed in the project file.

Albuquerque

If you have any questions, I can be contacted at 924-3695.

Sincerely,

NM 87103

Shahab Biazar, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

www.cabq.gov

C: email

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE:	CHAPARRAL ELEMENTARY SCHOOL PARENT DROP OFF & LOT EXPANSION	ZONE ATLAS/DRNG. FILE #:	F-10/D005
DRB #:	EPC #:	WORK ORDER #:	
LEGAL DESCRIPTION:	TRACT A-1, CHAPARRAL ELEMENTARY SCHOOL		
CITY ADDRESS:	6325 MILNE ROAD, NW, ALBUQUERQUE, NEW MEXICO 87120		
ENGINEERING FIRM:	HIGH MESA CONSULTING GROUP	CONTACT:	JEFF MORTENSEN, NMPE 8547
ADDRESS:	6010-B MIDWAY PARK BLVD. NE	PHONE:	505-345-4250
CITY, STATE:	ALBUQUERQUE, NM	ZIP CODE:	87109
OWNER:	ALBUQUERQUE PUBLIC SCHOOLS	CONTACT:	SAL WAR
ADDRESS:	915 OAK STREET SE	PHONE:	505-765-5950 EXT 289
CITY, STATE:	ALBUQUERQUE, NM	ZIP CODE:	87106
ARCHITECT:	N/A	CONTACT:	
ADDRESS:		PHONE:	
CITY, STATE:		ZIP CODE:	
SURVEYOR:	HIGH MESA CONSULTING GROUP	CONTACT:	CHARLES CALA, NMPS 11184
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:	PO BOX 1174	PHONE:	505-341-1551
CITY, STATE:	LAS LUNAS, NM	ZIP CODE:	87031

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): CONDITION OF APPROVAL

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
☐ NO
☒ COPY PROVIDED

DATE SUBMITTED: 02-01-2013 BY: BRIAN E. EVEMEYER

RECEIVED
FEB - 1 2013

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:

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

HYDROLOGY & TRANSPORTATION PREDESIGN CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NUMBER: F-10/D005 DATE: April 30, 2010
CROSS REFERENCE NUMBERS: EPC _____ DRB _____ DRC _____
SUBJECT: CHAPARRAL ELEMENTARY SCHOOL KG PORTABLE RELOCATION & PAVING
STREET ADDRESS: 6325 MILNE NW
SUBDIVISION NAME: TRACT A-1, CHAPARRAL ELEMENTARY SCHOOL

TYPE OF APPROVAL

☐ PRELIMINARY & FINAL PLAT
☐ BUILDING PERMIT
☒ GRADING PERMIT (& PAVING)
☐ SITE DEVELOPMENT PLAN FOR SUBDIVISION
☒ OTHER SO # 19

ATTENDEE:
JEFF MORTENSEN
BRAD BINGHAM

ORGANIZATION:
HMC
HYDROLOGY

PHONE:
345-4250
924-3986

FINDINGS:

- A. AN APPROVED DRAINAGE PLAN PER THE DPM WILL BE REQUIRED TO SUPPORT GRADING AND PAVING PERMITS & SPECIAL ORDER #19 APPROVAL
- B. SO #19 REQUIRED FOR SDMH CONNECTION(S)
- C. FREE DISCHARGE PERMISSIVE
1) FOR DIRECT DISCHARGE TO EXISTING PUBLIC STORM DRAIN VIA SO #19
- D. DRAINAGE SUBMITTAL MUST ADDRESS HOL OF EXISTING PUBLIC STORM DRAIN
- E. SCOPE OF WORK INVOLVES RELOCATION OF PORTABLE CLASSROOMS IN ADVANCE OF THE NEW KINDERGARTEN CLASSROOM ADDITION PLUS NEW PARENT DROP-OFF AND EXISTING PARKING LOT EXPANSION AT WEST EDGE OF THE SITE

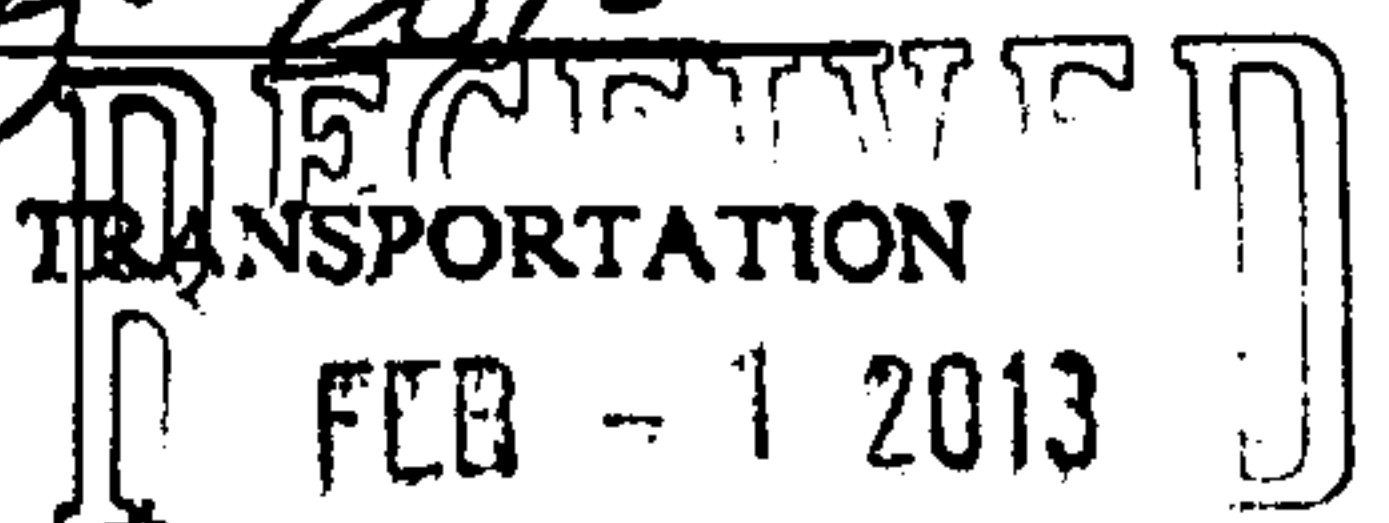
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SIGNED: Bradley D. Bingham
TITLE: CITY HYDROLOGIST
DATE: 5/13/10

SIGNED: [Signature]
TITLE: CONSULTANT
DATE: 05-14-2010

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

HMC PROJECT NO. 2008.197.7



DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: CHAPARRAL ES PORTABLES PHASE 1 ZONE ATLAS/DRNG. FILE #: F-10/D005
 DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: TRACT B, CHAPARRAL ELEMENTARY SCHOOL
 CITY ADDRESS: 6325 MILNE ROAD, NW, ALBUQUERQUE, NEW MEXICO 87120

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

OWNER: ALBUQUERQUE PUBLIC SCHOOLS CONTACT: SAL WAR
 ADDRESS: 915 OAK STREET SE PHONE: 505-765-5950 EXT 289
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87106

ARCHITECT: N/A CONTACT: _____
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

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

CONTRACTOR: ANCHOR BUILT CONSTRUCTION CONTACT: RAY ZAMORA
 ADDRESS: P.O. Box 27688 PHONE: 505-342-2452
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87125

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): CONDITION OF APPROVAL

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
☐ NO
☒ COPY PROVIDED

RECEIVED
JAN - 2 2013

DATE SUBMITTED: 12-28-2012 BY: BRIAN E. EVEMEYER

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DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: CHAPARRAL ES PORTABLES PHASE 1 ZONE ATLAS/DRNG. FILE #: F-10/D005
 DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: TRACT B, CHAPARRAL ELEMENTARY SCHOOL
 CITY ADDRESS: 6325 MILNE ROAD, NW, ALBUQUERQUE, NEW MEXICO 87120

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

OWNER: ALBUQUERQUE PUBLIC SCHOOLS CONTACT: SAL WAR
 ADDRESS: 915 OAK STREET SE PHONE: 505-765-5950 EXT 289
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87106

ARCHITECT: N/A CONTACT: _____
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

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

CONTRACTOR: ANCHOR BUILT CONSTRUCTION CONTACT: RAY ZAMORA
 ADDRESS: P.O. Box 27688 PHONE: 505-342-2452
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87125

TYPE OF SUBMITTAL:

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☐ 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:

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☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D APPROVAL
☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
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☐ FOUNDATION PERMIT APPROVAL
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☐ CERTIFICATE OF OCCUPANCY (TEMP.)
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☐ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☒ OTHER (SPECIFY): CONDITION OF APPROVAL

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
☐ NO
☒ COPY PROVIDED

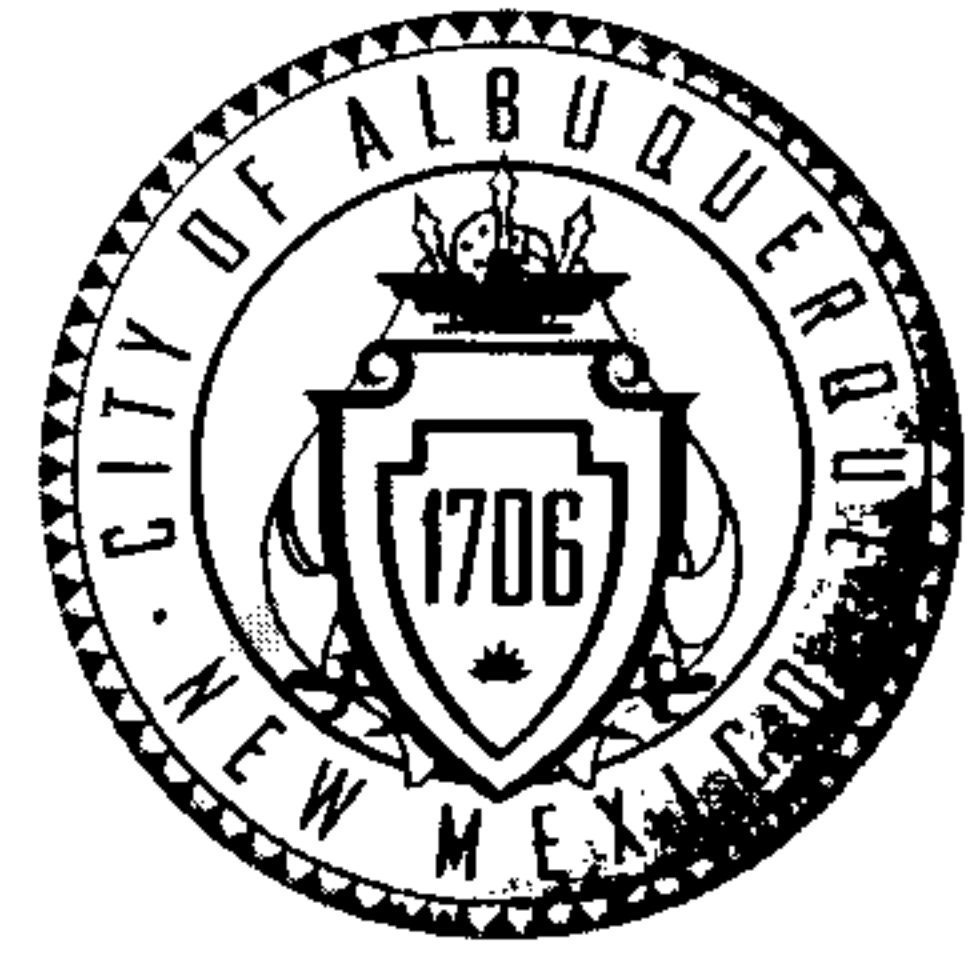
RECEIVED
JAN - 2 2013

DATE SUBMITTED: 12-28-2012 BY: BRIAN E. EVEMEYER

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CITY OF ALBUQUERQUE



January 3, 2013

Jeff Mortensen, P.E.
High Mesa Consulting Group
6010-B Midway Park Blvd. NE
Albuquerque, NM 87120

jmortensen@highmesacg.com

**Re: Tract B, Chapparal ES, 6325 Milne Rd. NW,
Request for Permanent C.O. –Accepted
Engineer's Stamp dated: 03-27-12, (F-10/D005)
Certification dated: 12-26-12**

Dear Mr. Mortensen,

Based upon the information provided in the Certification received 01-02-13, 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: sbiazar@cabq.gov.

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

Sincerely,

Shahab Biazar, P.E.

Senior Engineer—Hydrology Section
Development and Building Services

C: CO Clerk—Katrina Sigala
File

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Rodriguez, Jason T.

From: Rodriguez, Jason T.
Sent: Wednesday, August 29, 2012 1:35 PM
To: Sims, Timothy E.
Cc: Blair, Henry A.; 'BEvemeyer@highmesacg.com'; Biazar, Shahab
Subject: Chaparral school

I have looked at the inlet penetration and the 18" RCP into the man hole they both are good it's a pass

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

HYDROLOGY & TRANSPORTATION PREDESIGN CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NUMBER: F-10/D005 DATE: April 30, 2010
CROSS REFERENCE NUMBERS: EPC _____ DRB _____ DRC _____
SUBJECT: CHAPARRAL ELEMENTARY SCHOOL KG PORTABLE RELOCATION & PAVING
STREET ADDRESS: 6325 MILNE NW
SUBDIVISION NAME: TRACT A-1, CHAPARRAL ELEMENTARY SCHOOL

TYPE OF APPROVAL

- ☐ PRELIMINARY & FINAL PLAT
☐ BUILDING PERMIT
☒ GRADING PERMIT (& PAVING)
☐ SITE DEVELOPMENT PLAN FOR SUBDIVISION
☒ OTHER SO # 19

ATTENDEE:
JEFF MORTENSEN
BRAD BINGHAM

ORGANIZATION:
HMC
HYDROLOGY

PHONE:
345-4250
924-3986

FINDINGS:

- A. AN APPROVED DRAINAGE PLAN PER THE DPM WILL BE REQUIRED TO SUPPORT GRADING AND PAVING PERMITS & SPECIAL ORDER #19 APPROVAL
- B. SO #19 REQUIRED FOR SDMH CONNECTION(S)
- C. FREE DISCHARGE PERMISSIVE
1) FOR DIRECT DISCHARGE TO EXISTING PUBLIC STORM DRAIN VIA SO #19
- D. DRAINAGE SUBMITTAL MUST ADDRESS HOL OF EXISTING PUBLIC STORM DRAIN
- E. SCOPE OF WORK INVOLVES RELOCATION OF PORTABLE CLASSROOMS IN ADVANCE OF THE NEW KINDERGARTEN CLASSROOM ADDITION PLUS NEW PARENT DROP-OFF AND EXISTING PARKING LOT EXPANSION AT WEST EDGE OF THE SITE

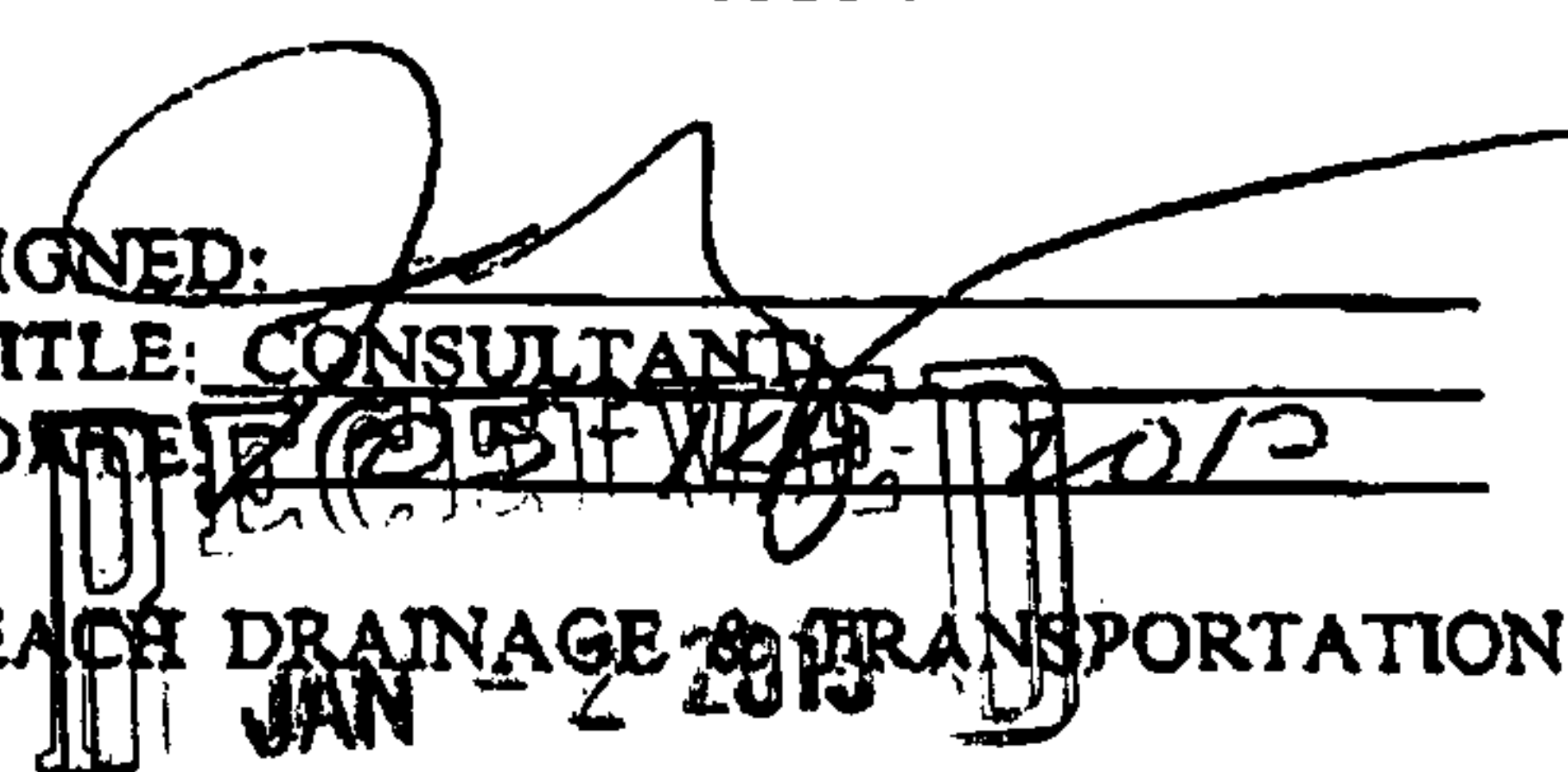
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SIGNED: Bradley D. Bingham
TITLE: CITY HYDROLOGIST
DATE: 5/13/10

SIGNED: [Signature]
TITLE: CONSULTANT
DATE: 5/13/10

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

HMC PROJECT NO. 2008.197.7



CITY OF ALBUQUERQUE
PLANNING DEPARTMENT
DEVELOPMENT SERVICE / HYDROLOGY SECTION

DATE: 12-27-11
CONFERENCE RECAP

ZONE ATLAS PAGE NO: _____
DRAINAGE FILE: F10-D005
ZONING: _____

DRB: _____

SUBJECT: _____

STREET ADDRESS (IF KNOWN): _____

SUBDIVISION NAME: Chaparral Elementary School ^{bus bay} ~~bt drop off~~

APPROVAL REQUESTED: _____

ATTENDANCE: Jeff Mortensen Curtis Cherne

FINDINGS:

it is acceptable to connect an inlet in the
bus bay to the inlet in Western Trail NW provided
there is adequate cover over the existing 54"
Storm Drain.

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

SIGNED: Curtis A. Cherne
NAME (PRINT): Curtis A. Cherne

SIGNED: [Signature]
NAME (PRINT): Jeffrey G. Mortensen

****NOTE**** PLEASE PROVIDE A COPY OF THIS RECAP WITH YOUR DRAINAGE SUBMITTAL.

Cherne, Curtis

From: Cherne, Curtis
Sent: Tuesday, February 14, 2012 9:58 AM
To: 'Jeffrey Mortensen'
Cc: Sims, Timothy E.; Herrington, Cameron J.
Subject: RE: Chaparral Elementary School Portables

Jeff,
This project will not require a drainage submittal.
I'll let Tim and Cameron know.

Curtis

From: Jeffrey Mortensen [mailto:JMortensen@highmesacg.com]
Sent: Tuesday, February 07, 2012 5:17 PM
To: Cherne, Curtis
Subject: Chaparral Elementary School Portables

Curtis,

BACKGROUND:

In 2010, we prepared a complete set of plans to develop two mini-campuses (Pre-K and Diagnosticians) at the southwest corner of Tract A, Chaparral Elementary School (F10/D005). That project is complete and certified.

Now, APS wants to relocate one double classroom portable from the elementary school site over next to the Diagnosticians. The portable measures 28' x 60' with minimal paving of about 10' x 60'. APS plans to submit for Building Permit which normally includes foundations and utilities. Runoff from the rear portion of the roof will drain to an onsite playa. Runoff from the front part of the roof and paving will drain across the existing paving to enter a private storm drain that connects to a public storm drain that discharges to the Ladera Basin 16 South Sump.

REQUEST:

Will this modest project require a formal drainage submittal? We are trying to minimize costs to the District, so any reduction in process and sheet count will greatly help.

Thanks,
Jeff



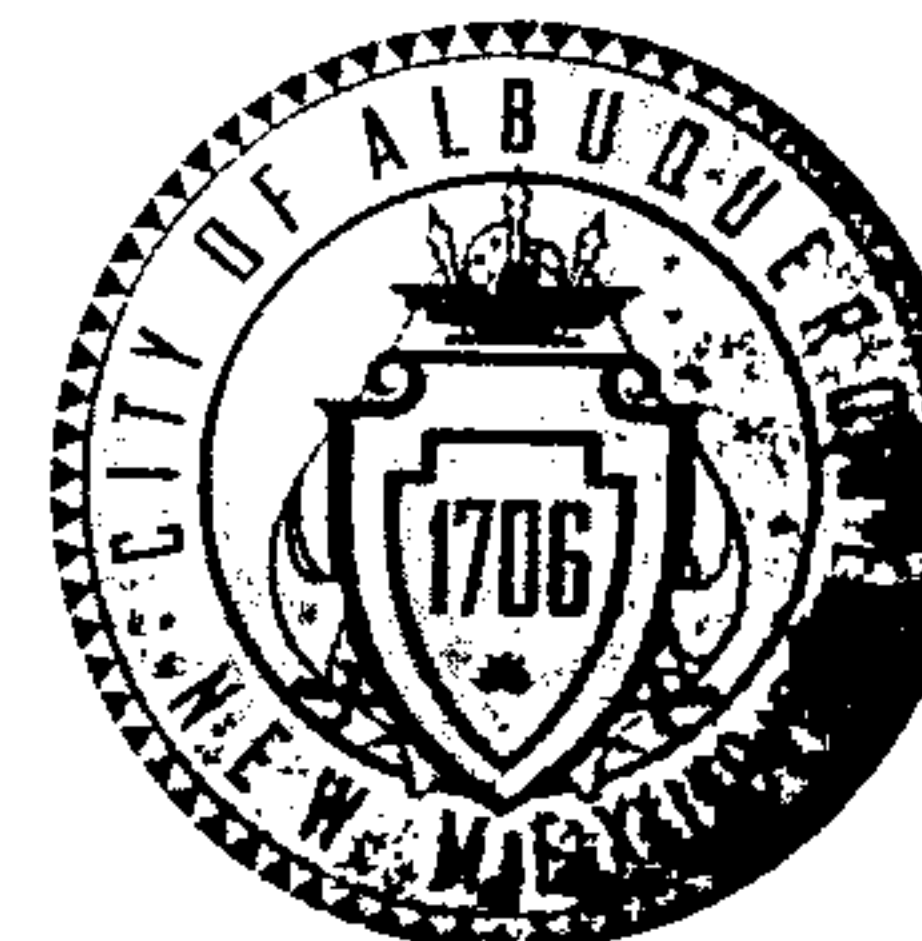
Jeffrey G. Mortensen, P.E.
President

6010-B Midway Park Blvd. NE
Albuquerque, NM 87109
www.highmesacg.com

Phone: 505.345.4250
Fax: 505.345.4254
jmortensen@highmesacg.com

2/14/2012

CITY OF ALBUQUERQUE



March 3, 2011

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

Re: Chaparral Elem. Sch. Pre K & Diag. Consol.
Request for Permanent C.O. - Approved
Engineer's Stamp dated: 07-06-10 (F-10/D005)
Certification dated: 03-03-11

Dear Mr. Mortensen,

Based upon the information provided in the Certification received 03-02-11, the above referenced Certification is approved for a release of a Permanent Certificate of Occupancy by Hydrology.

PO Box 1293

If you have any questions, you can contact me at 924-3977.

Albuquerque

Sincerely,

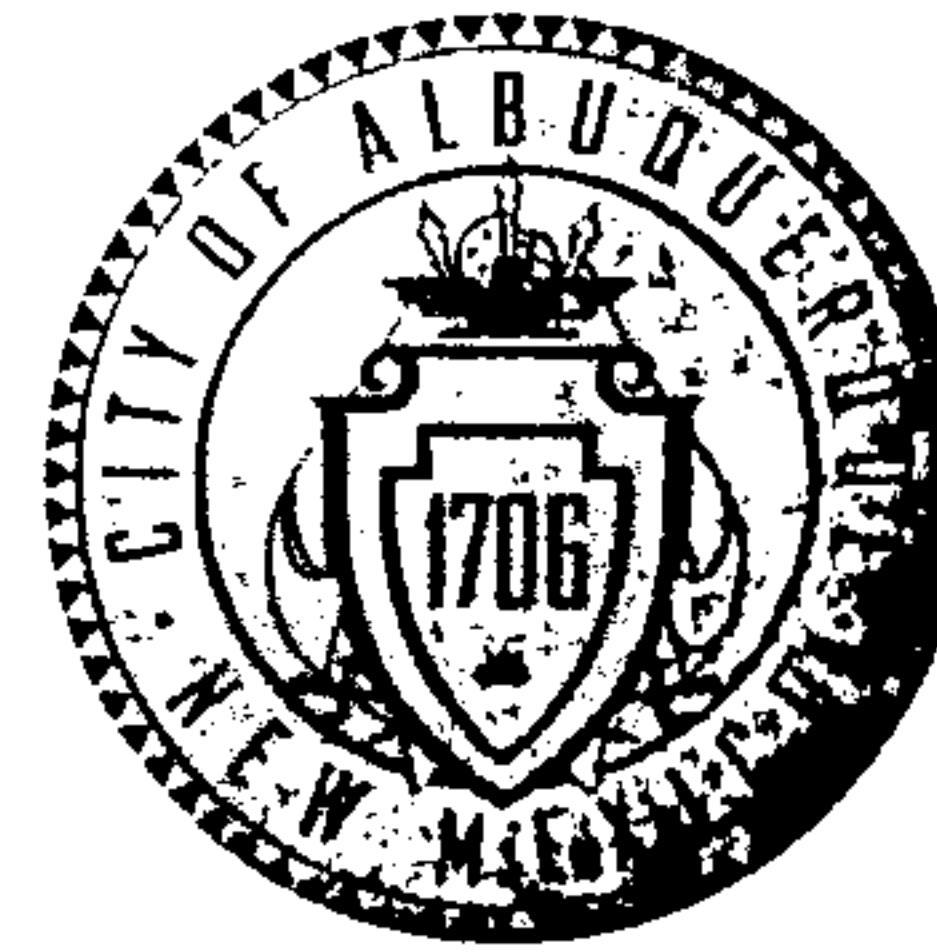
Rudy E. Rael
Plan Checker—Hydrology Section
Development and Building Services

NM 87103

www.cabq.gov

C: CO Clerk—Katrina Sigala
File

CITY OF ALBUQUERQUE



October 14, 2010

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

**Re: Chaparral Elementary School Parent Drop Off and Parking Lot Expansion
Grading and Drainage Plan
Engineer's Stamp date 10-08-10 (F10/D005)**

Dear Mr. Mortensen,

Based upon the information provided in your submittal received 10-12-2010, the above referenced plan is approved for Grading Permit, Paving Permit and SO-19 Permit. A copy of this approval letter must be on hand when applying for the excavation/barricading permit.

The storm drain work in the easement must be inspected and accepted. Please contact Dave Silva, 857-8074, to schedule an inspection.

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

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

Sincerely,

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

C: Antoinette Baldonado, Excavation and Barricading
Dave Silva, Street/Storm Drain Maintenance
File

CITY OF ALBUQUERQUE



September 20, 2010

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

**Re: Chaparral Elementary School, Portable Relocation
Grading and Drainage Plan
Engineer's Stamp date 09-10-2010 (F10/D005)**

Dear Mr. Mortensen,

Based upon the information provided in your submittal received 09-14-2010, the above referenced plan is approved for Building Permit.

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

PO Box 1293

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

Albuquerque

Sincerely,

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

NM 87103

www.cabq.gov

C: file

CITY OF ALBUQUERQUE



June 25, 2010

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

**Re: Chaparral Elementary School Pre-K and Diagnostician Consolidation
Grading and Drainage Plan**

Engineer's Stamp date 6-17-10 (F10/D005)

Dear Mr. Mortensen,

Based upon the information provided in your submittal received 6-21-10, the above referenced plan is approved for Grading Permit, Paving Permit, Foundation Permit and SO 19 Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

PO Box 1293

To obtain a Certificate of Occupancy, Engineer Certification of the Grading Plan per the DPM is required and the storm drain connection to the manhole must be inspected and accepted. Please contact Duane Schmitz, 235-8016, to schedule an inspection.

Albuquerque

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

NM 87103

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

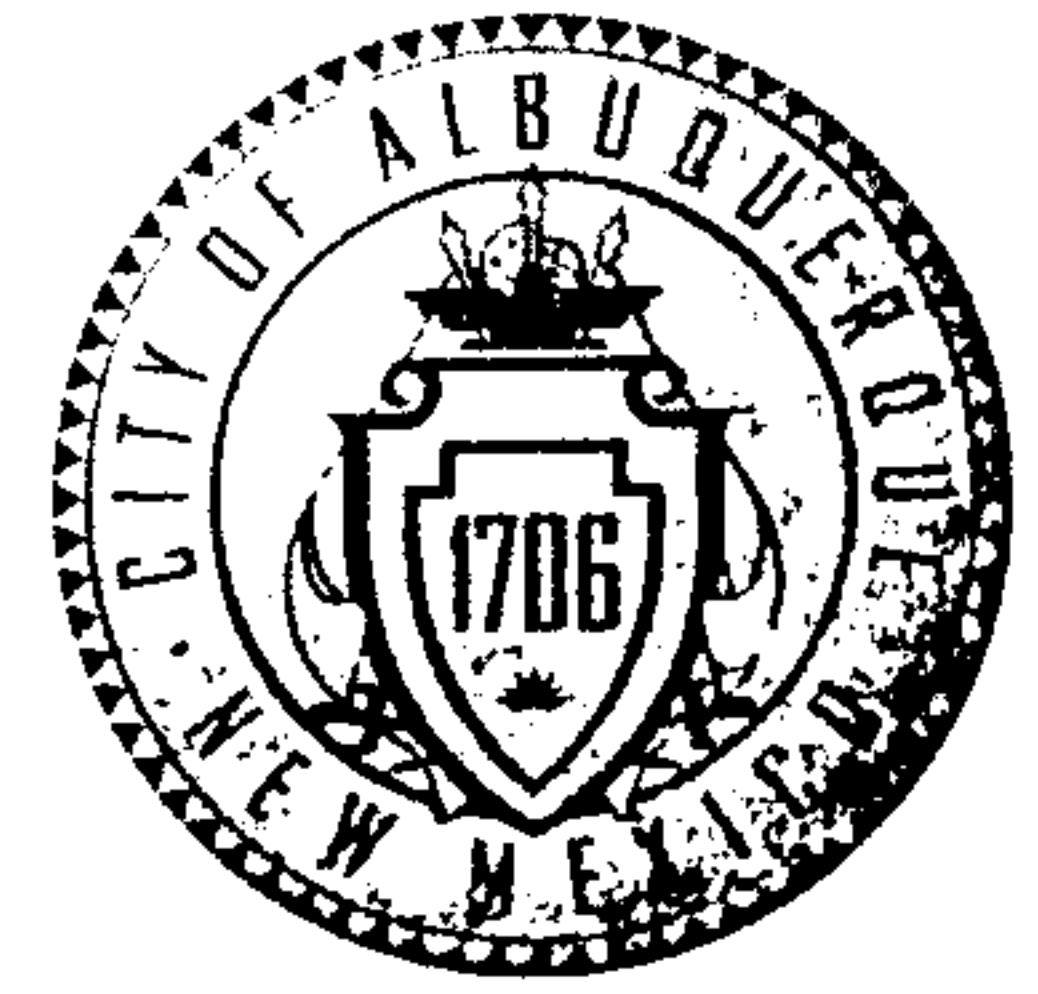
www.cabq.gov

Sincerely,

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

C: file
Duane Schmitz, Street/Storm Drain Maintenance
Kathy Verhage, DMD

CITY OF ALBUQUERQUE



June 24, 2009

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

Re: Chaparral Elementary School Master Drainage Plan
Engineer's Stamp date 6-19-09 (F10/D005)

Dear Mr. Mortensen,

Based upon the information provided in your submittal received 6-16-09, the above referenced plan is approved as the Master Drainage Plan.

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

PO Box 1293

Albuquerque

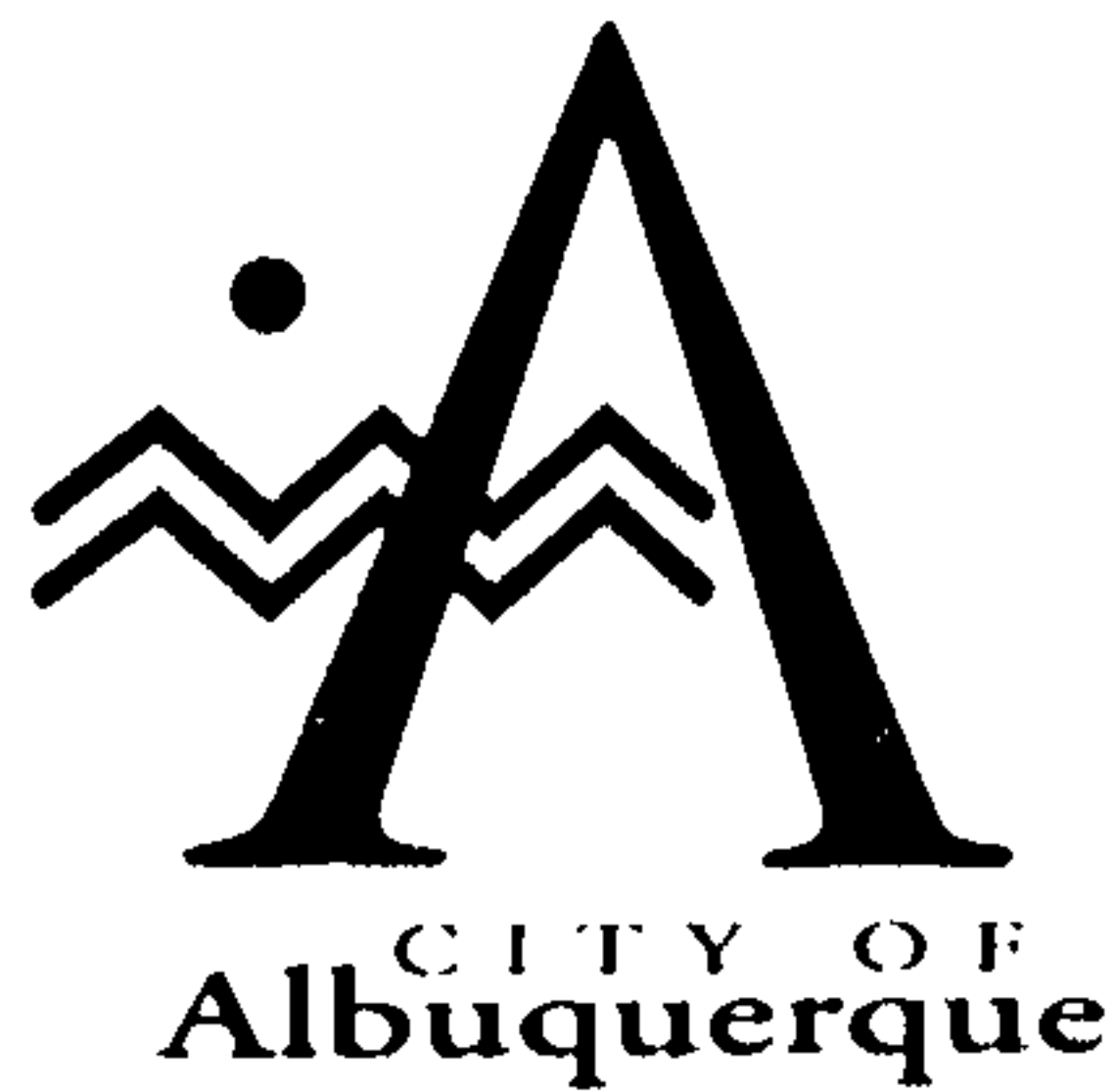
NM 87103

www.cabq.gov

Sincerely,

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

C: file



September 10, 1997

Martin J. Chávez, Mayor

Dan Aguirre, P.E.
Wilson & Company
4775 Indian School Rd.
Suite 200
Albuquerque, NM 87110

**RE: CHAPARRAL ELEMENTARY SCHOOL (F10-D5). GRADING PLAN SUBMITTAL
FOR GRADING AND PAVING PERMIT APPROVALS. ENGINEER'S STAMP
DATED JULY 8, 1997.**

Dear Mr. Aguirre:

Based on the information provided on your August 20 and September 10, 1997 submittal, the above referenced project is approved for grading and paving permits.

An Engineer's Certification will be required upon project completion.

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

Sincerely,

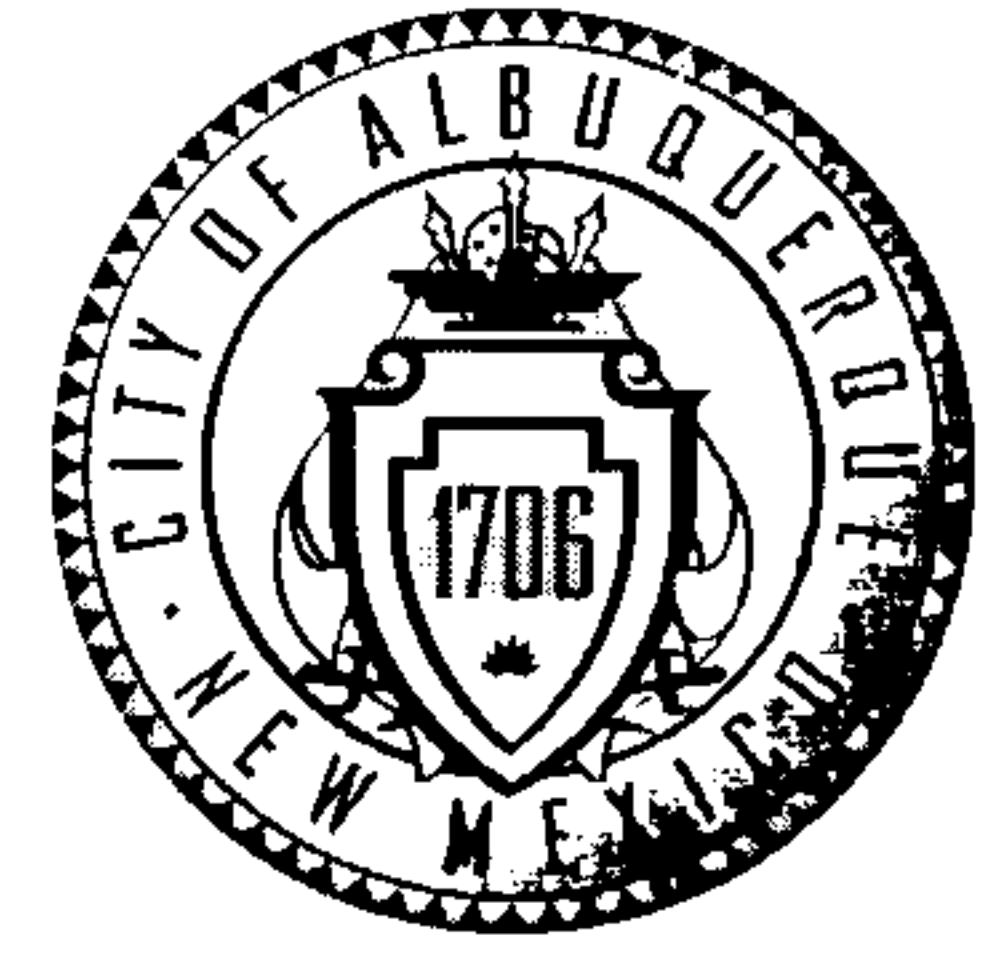
Lisa Ann Manwill, P.E.
Hydrology

c: Andrew Garcia
File

Good for You, Albuquerque!



CITY OF ALBUQUERQUE



December 30, 2011

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

**Re: Chaparral Elementary School Track & Field Grading and Paving Permit
Engineer's Stamp dated 12-22-11 (F10-D005)**

Dear Mr. Mortensen,

Based upon the information provided in your submittal dated 12-23-11, the above referenced plan is approved for Grading and Paving Permit.

PO Box 1293

This project requires a National Pollutant Discharge Elimination System (NPDES) permit for storm water discharge.

Albuquerque

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Upon completion of the project, please provide an Engineer Certification for our files.

NM 87103

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

www.cabq.gov

Sincerely,

Shahab Biazar, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: CHAPARRAL ES TRACK & FIELD ZONE ATLAS/DRNG. FILE #: F10 / D005
 DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: TRACT B, CHAPARRAL ELEMENTARY SCHOOL
 CITY ADDRESS: 6325 MILNE ROAD NW

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: DAVID RITCHEY
 ADDRESS: 915 OAK SE PHONE: 505-848-8876
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87106

ARCHITECT: N/A CONTACT: _____
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

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: WESTWIND LANDSCAPE CONSTRUCTION INC CONTACT: KEVIN NEEL
 ADDRESS: VASSAR PLACE NE PHONE: 505-881-8925
 CITY, STATE: ALBUQUERQUE, NM 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) _____

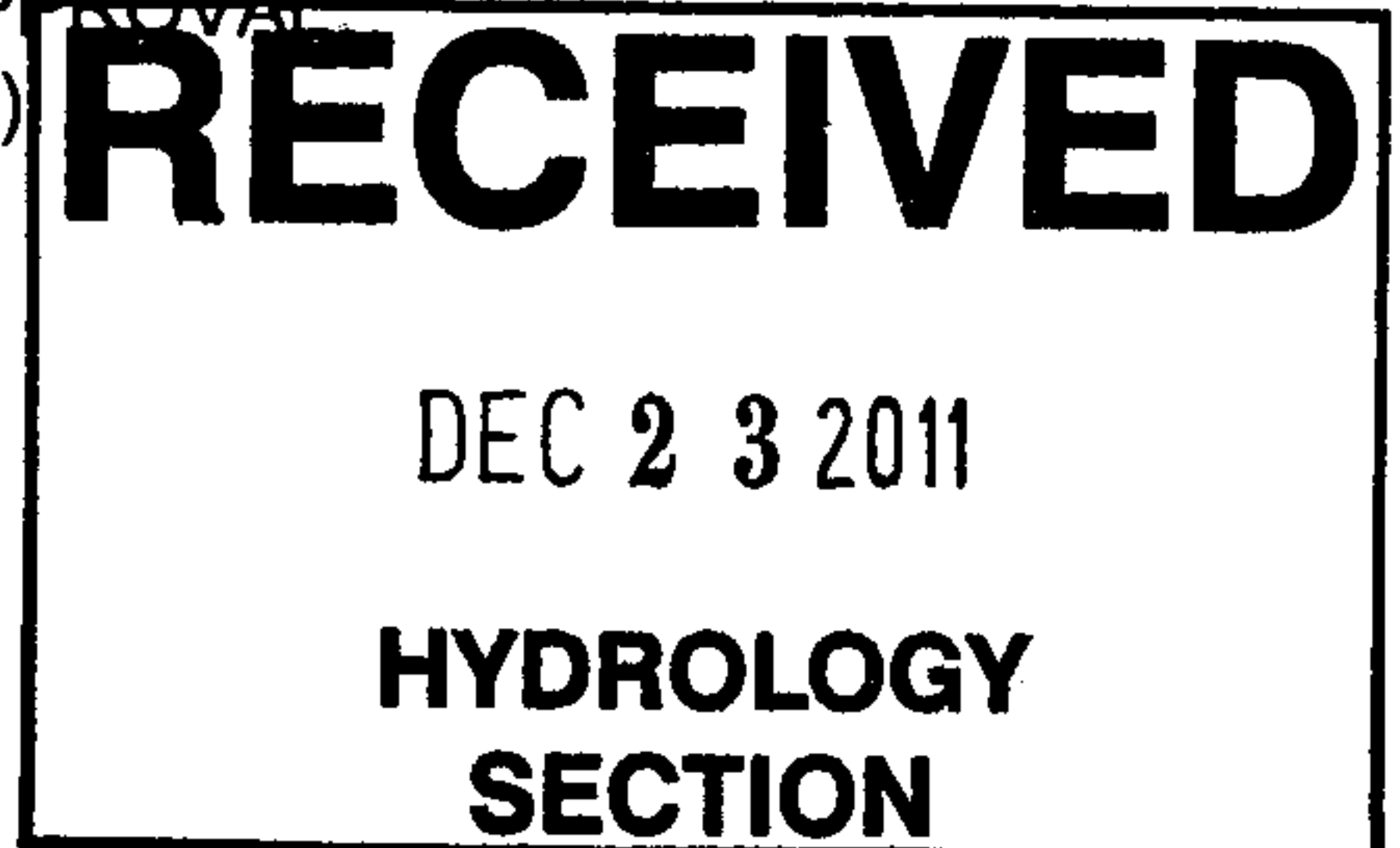
WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
☐ NO
☒ COPY PROVIDED

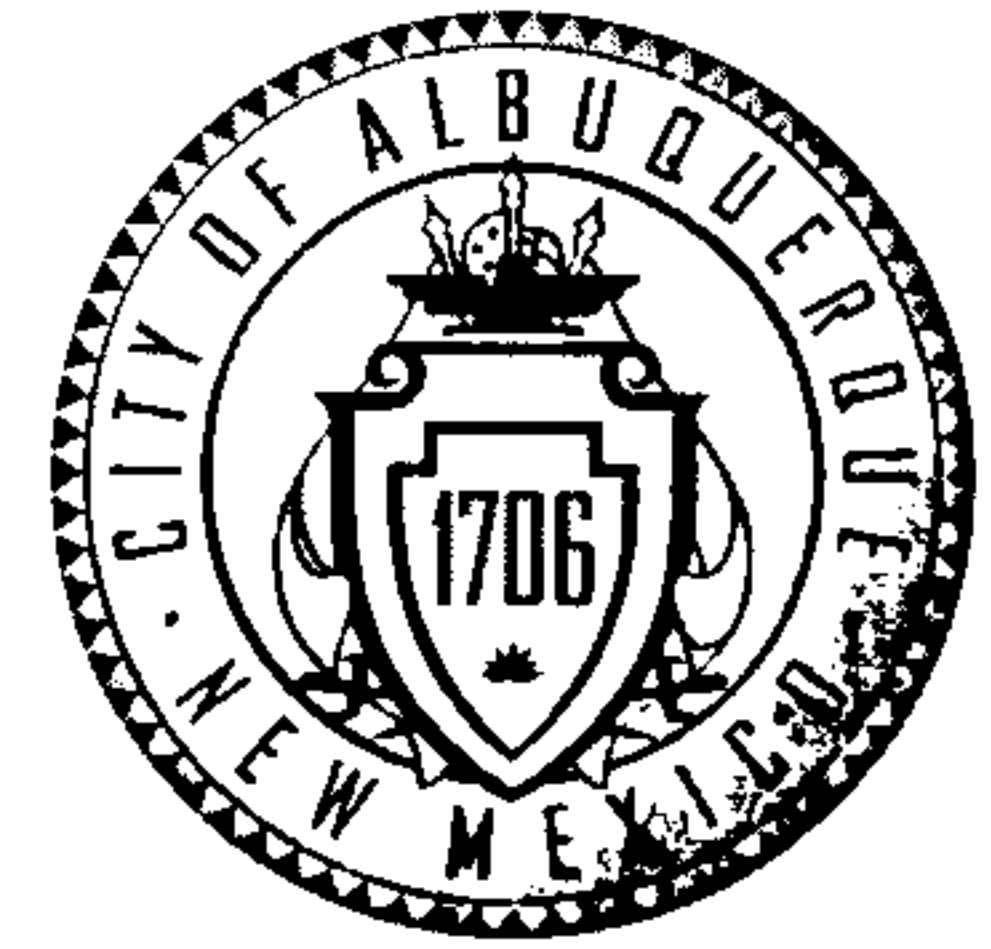
DATE SUBMITTED: 12/23/2011 BY: JEFFREY G. MORTENSEN
 XC: _____

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.



CITY OF ALBUQUERQUE



April 26, 2013

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

Re: Chaparral E.S. Grading and Drainage Plan, 3625 Milne Rd. NW
Engineer's Stamp dated 04-25-2013 (F-10/D005)

Dear Mr. Mortensen,

Based upon the information provided in your submittal dated 04-26-13, the above referenced Grading and Drainage plan meets the requirements for Building Permit. However, please be advised that before a building permit can be issued an Erosion and Sediment Control Plan (ESC) must be prepared, submitted and approved by the Hydrology Department.

*Amended
sheets
C102 &
C105
only
AD*

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. A separate permit (SO 19) is required for construction within City ROW. A copy of this approval letter must be on hand when applying for the excavation/barricading permit.

To obtain a permanent Certificate of Occupancy, the sidewalk culvert in the City ROW must be inspected and accepted. Please contact Jason Rodriguez, 235-8016, to schedule an inspection. Prior to Certificate of Occupancy release, the Work Order must be approved and released and Engineer Certification per the DPM checklist will be required.

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

Sincerely,

Shahab Biazar, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: email

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

HMCG 2009.004.7

(REV. 01/06 - KDM)

PROJECT TITLE: <u>Chaparral Elementary School</u>	ZONE ATLAS/DRNG. FILE #: <u>F-10/D005</u>
DRB #: _____ EPC #: _____	WORK ORDER #: _____
LEGAL DESCRIPTION: <u>Tracts A and B, Chaparral Elementary School</u>	
CITY ADDRESS: <u>6325 Milne Rd NW</u>	
ENGINEERING FIRM: <u>High Mesa Consulting Group</u>	CONTACT: <u>Jeffrey Mortensen, NMPE 8547</u>
ADDRESS: <u>6010-B Midway Park Blvd. NE</u>	PHONE: <u>(505) 345-4250</u>
CITY, STATE: <u>Albuquerque, NM</u>	ZIP CODE: <u>87109</u>
OWNER: <u>Albuquerque Public Schools</u>	CONTACT: <u>David Ritchey</u>
ADDRESS: <u>915 Oak St SE</u>	PHONE: <u>(505) 848-8876</u>
CITY, STATE: <u>Albuquerque, NM</u>	ZIP CODE: <u>87106</u>
ARCHITECT: <u>Cherry/See/Reames Architects</u>	CONTACT: <u>Tina Reames</u>
ADDRESS: <u>220 Gold Avenue SW</u>	PHONE: <u>505-842-1278</u>
CITY, STATE: <u>Albuquerque, NM</u>	ZIP CODE: <u>87102</u>
SURVEYOR: <u>High Mesa Consulting Group</u>	CONTACT: <u>Charles Cala, NMPS 11184</u>
ADDRESS: <u>6010-B Midway Park Blvd. NE</u>	PHONE: <u>(505) 345-4250</u>
CITY, STATE: <u>Albuquerque, NM</u>	ZIP CODE: <u>87109</u>
CONTRACTOR: _____	CONTACT: _____
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

CHECK TYPE OF APPROVAL SOUGHT:

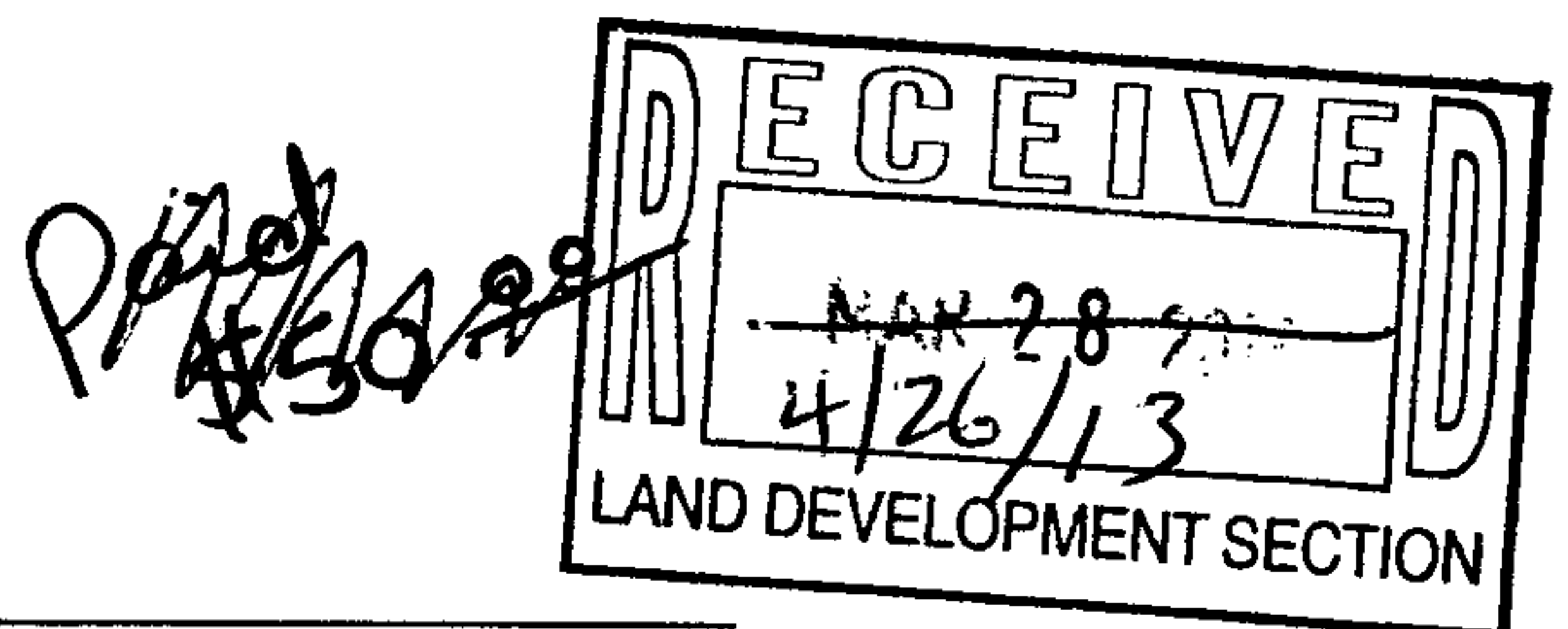
- ☐ SIA/FINANCIAL GUARANTEE RELEASE
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☒ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY (PERM.)
- ☐ CERTIFICATE OF OCCUPANCY (TEMP.)
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☒ OTHER (SPECIFY): SO#19

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
- ☐ NO
- ☒ COPY PROVIDED

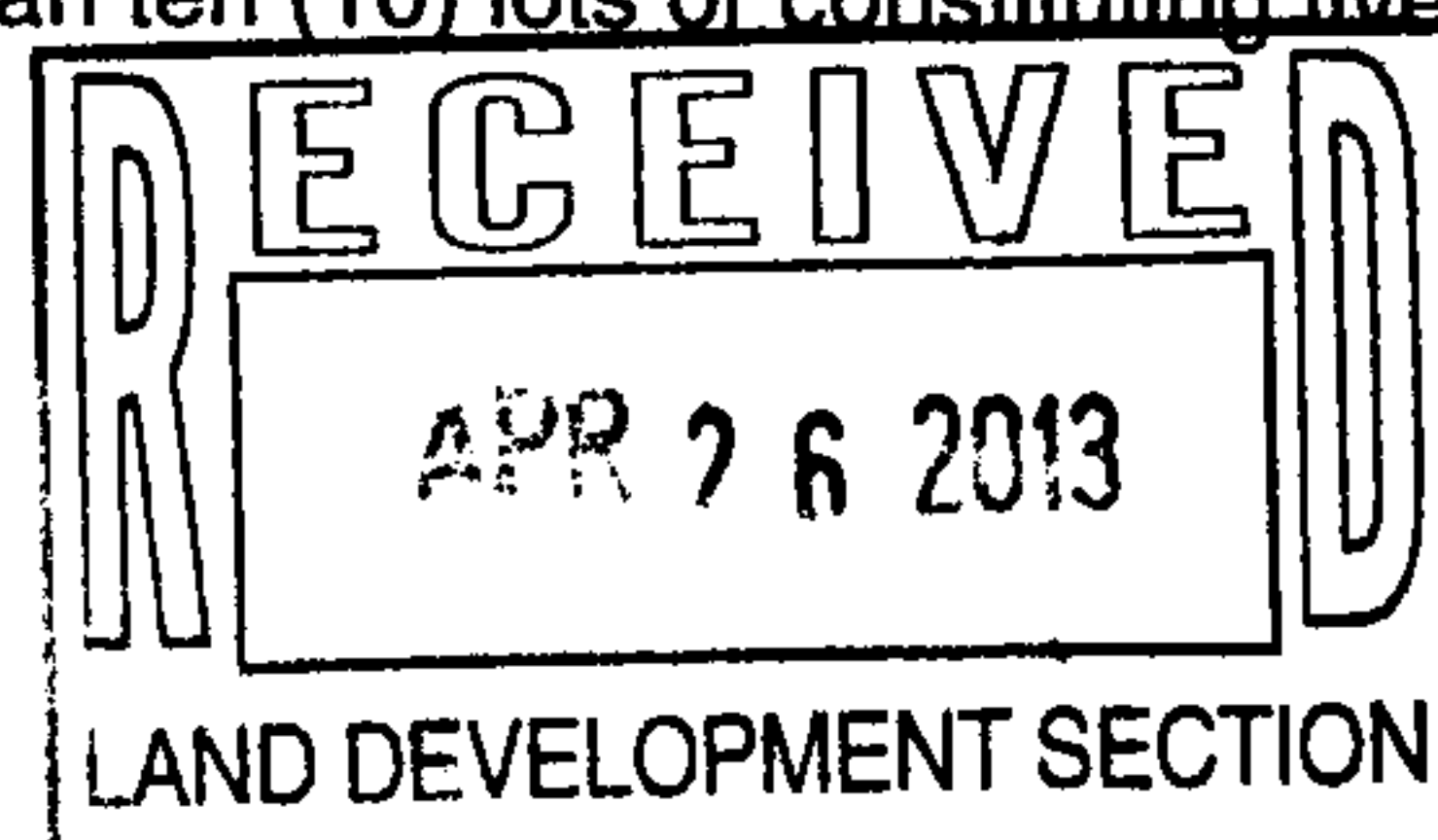
4/26/13

DATE SUBMITTED: 03-28-13 BY: Justin Schara

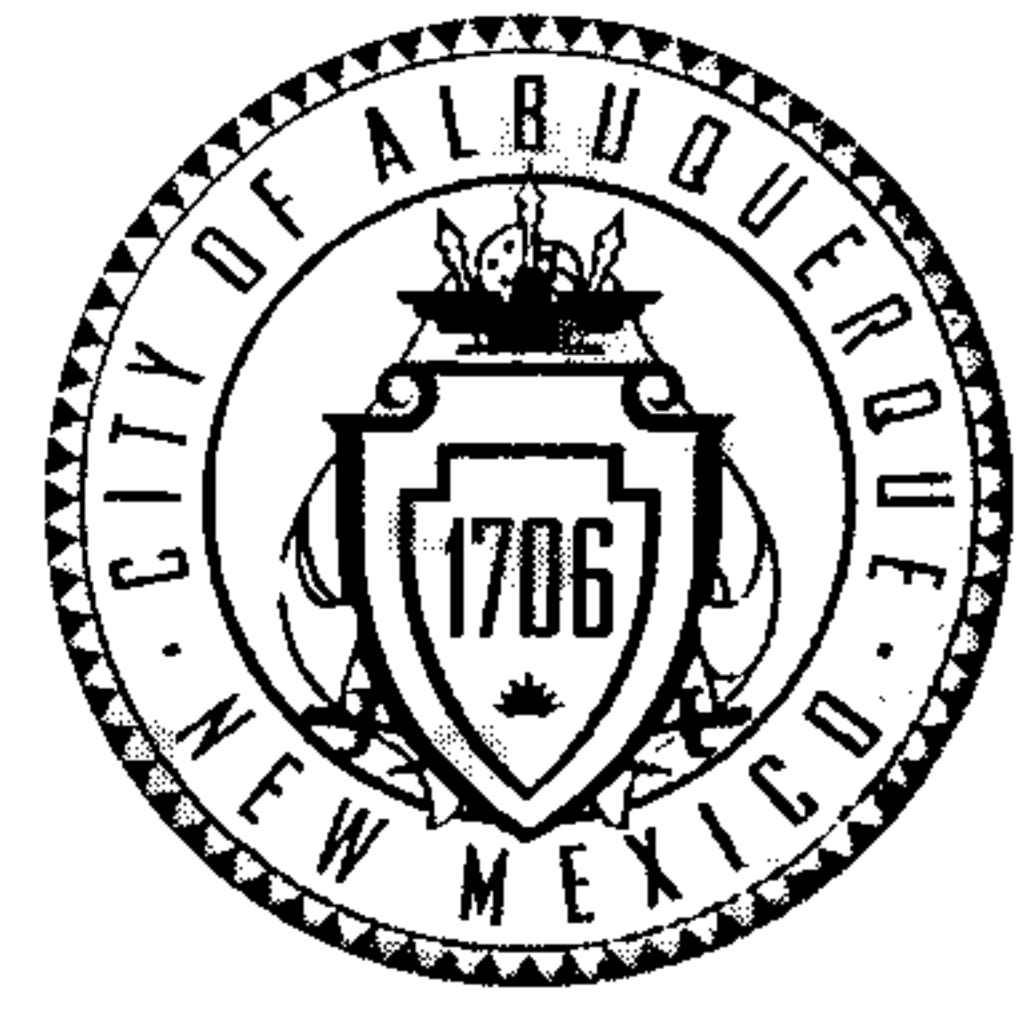


Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based upon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



October 25, 2013

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

**Re: Chaparral E.S., Parent Parking Lot
Grading and Drainage Plan, 3625 Milne Rd. NW
Engineer's Stamp dated 09-18-2013 (F-10/D005)**

Dear Mr. Mortensen,

Based upon the Beehive Grate Inlet calculation provided via fax on 10/25/2013 and grading plan submittal date 09-19-13, the above referenced Grading and Drainage plan is approved for building permit based on the following condition:

- The Rim Elevation at the Beehive should be lowered 12" to 10.50.

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

Sincerely,

Shahab Biazar, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: email

HIGH MESA Consulting Group
FORMERLY JEFF MORTENSEN AND ASSOCIATES, INC.

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

FAX TRANSMITTAL

TO:	FROM:
Shahab Biazar, P.E. Planning Department Development and Building Services Division City of Albuquerque	Justin Schara, EI High Mesa Consulting Group jschara@highmesacg.com
FAX:	PAGES:
924-3864	1
PHONE:	DATE:
	10-25-13
PROJECT:	RE:
Chaparral ES Parent Parking Lot (F10/D005)	Beehive Grate Inlet Calculations
JOB NO:	CC:
2013.180.2	

☐ Urgent ☐ For Review ☒ For Your Info. ☐ Please Reply ☐ As Discussed ☒ As Requested

Shahab,

As requested, here is the calculations for the inlet grate at Chaparral ES Parent Parking Lot. Let me know if you have any questions.

Justin

Justin Schara

From: Justin Schara
Sent: Friday, October 25, 2013 9:24 AM
To: 'Biazar, Shahab'
Subject: RE: Chaparral E.S., Parent Parking Lot, Grading and Drainage Plan (F10/D005)

Shahab,

I have completely retyped the calculations into the body of this email, hopefully that does the trick and this email finally goes through. ☺

Thanks for your help on this.

These calculations are based on the condition of developed peak discharge of $Q_{100} = 7.5$ cfs. Design of the beehive grate assumes a 50% clogged condition, so therefore $Q_{req'd} = 15$ cfs is the minimum required capacity.

Neenah Beehive Grate R-4349

Orifice Equation: $Q_{cap} = 0.6 \cdot A \cdot \sqrt{2 \cdot g \cdot h}$

A = Grate Open Area = 2.7 sq ft

G = 32.2 ft/sec²

H = head = 1.34 ft (Rim = 10.50, Nearest Road Edge Elev = 11.84)

$Q_{cap} = 15.1$ cfs > $Q_{req'd} = 15$ cfs

Therefore, the rim must be lowered 1' to 10.50 to meet the 50% clogged condition requirement.

**HIGH
MESA Consulting Group**

Justin D. Schara, E.I.

6010-B Midway Park Blvd. NE
Albuquerque, NM 87109
www.highmesaeng.com

Phone: 505.345.4250
Fax: 505.345.4254
jschara@highmesaeng.com

CITY OF ALBUQUERQUE



October 24, 2013

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

**Re: Chaparral E.S., Parent Parking Lot
Grading and Drainage Plan, 3625 Milne Rd. NW
Engineer's Stamp dated 09-18-2013 (F-10/D005)**

Dear Mr. Mortensen,

Based upon the information provided in your submittal dated 09-19-13, the above referenced Grading and Drainage plan cannot be approved for building permit based on the following comments:

- Provide capacity calculation for the Beehive Grate. Please use a 50% clogging factor in your calculations. The grate may have to be lowered to avoid overflow.
- Modify the grading plan if the Beehive Grate must be lowered.

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

Sincerely,

Shahab Biazar, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: email

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: Chaparral Elementary School Parent Parking Lot ZONE ATLAS/DRNG. FILE #: F10/D005
 DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Tracts A & B, Chaparral Elementary School
 CITY ADDRESS: 6325 Milne Road NW

ENGINEERING FIRM: High Mesa Consulting Group CONTACT: Jeff Mortensen, NMPE 8547
 ADDRESS: 6010-B Midway Park Blvd. NE PHONE: (505) 345-4250
 CITY, STATE: Albuquerque, NM ZIP CODE: 87109

OWNER: Albuquerque Public Schools CONTACT: David Ritchey
 ADDRESS: 915 Oak Street SE PHONE: 848-8876
 CITY, STATE: Albuquerque, NM ZIP CODE: 87106

ARCHITECT: n/a CONTACT: _____
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

SURVEYOR: High Mesa Consulting Group CONTACT: Charles Cala, NMPS 11184
 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: P.O. Box 1174 PHONE: 341-1551
 CITY, STATE: Los Lunas, NM ZIP CODE: 87031

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

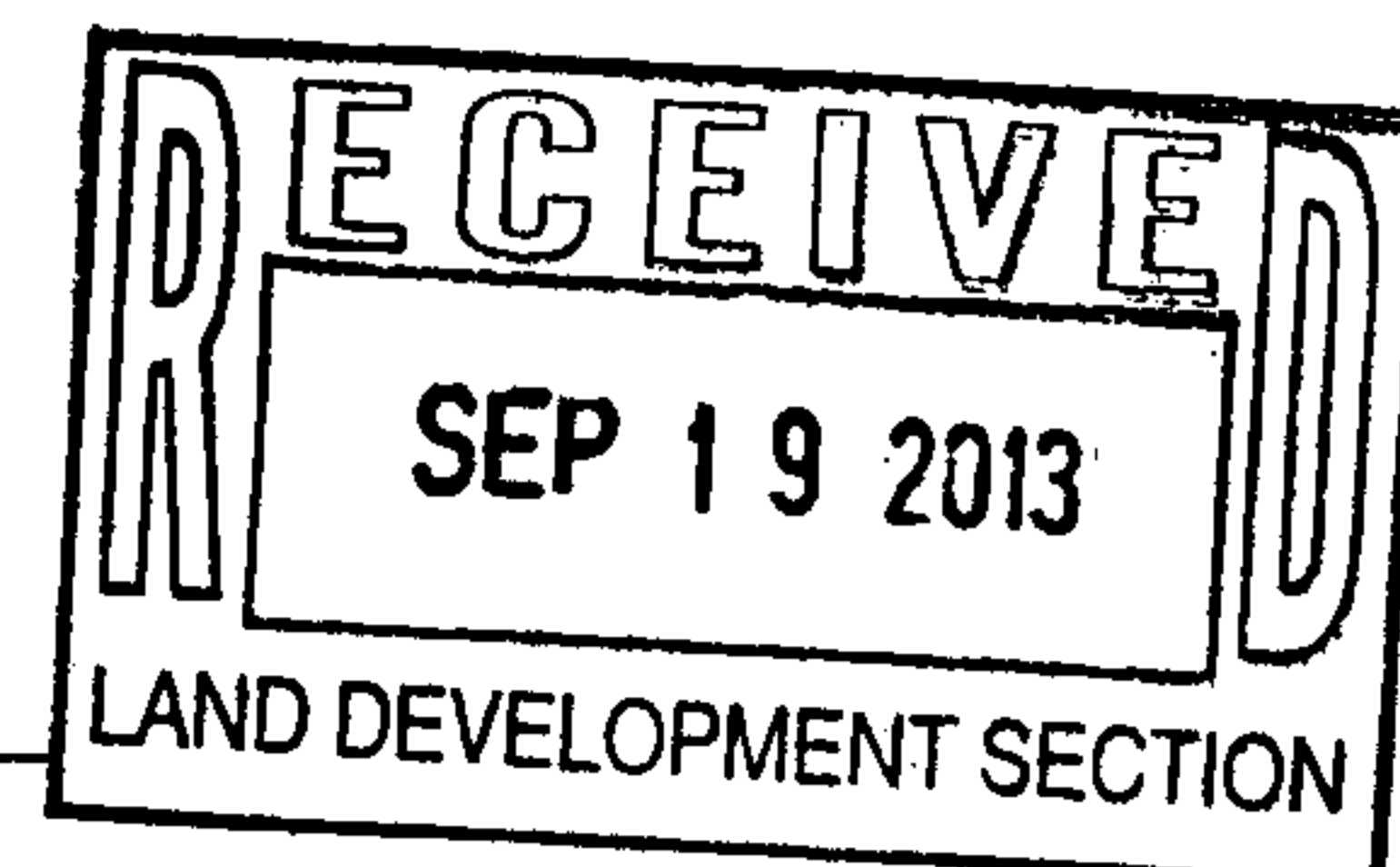
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ 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 *pkw*
☐ WORK ORDER APPROVAL
☒ OTHER (SPECIFY): SO #19 PERMIT APPROVAL

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
☒ NO
☐ COPY PROVIDED

DATE SUBMITTED: 09-17-13 BY: Justin Schara



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.