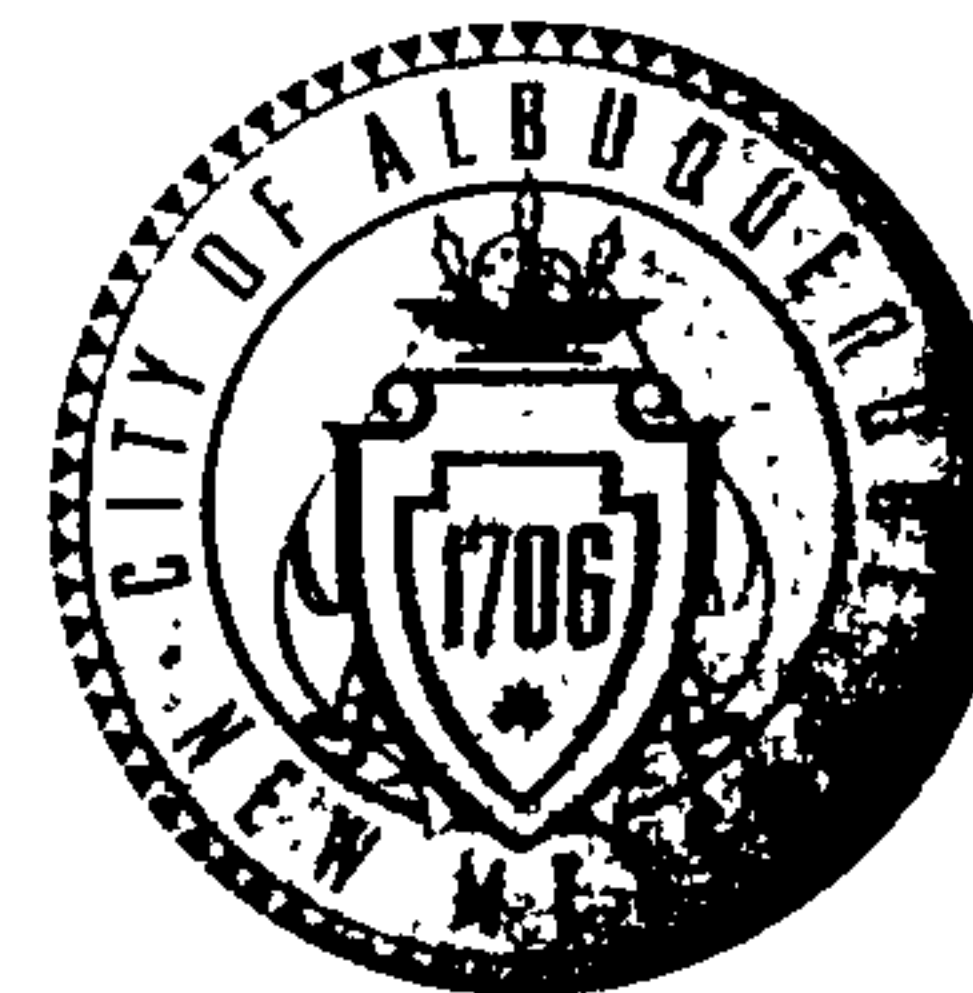


CITY OF ALBUQUERQUE



April 27, 2010

David Soule, P.E.
Rio Grande Engineering
9171 Glendale NE
Albuquerque, NM 87122

Re: Blakes Lota Burger #27
Grading and Drainage Plan
Engineer's Stamp date 4-19-10 (H16/D106)

Dear Mr. Soule,

Based upon the information provided in your submittal received 4-19-10, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

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

Sincerely,

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

C: file

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 01/28/2003rd)

PROJECT TITLE: Blakes Lotaburger #27
 DRB #: _____ EPC #: _____

ZONE MAP/DRG. FILE #: H-16/D106
 WORK ORDER #: _____

LEGAL DESCRIPTION: Tract A1B, Chavez Addition
 CITY ADDRESS: 2301 Carlisle

ENGINEERING FIRM: Rio Grande Engineering
 ADDRESS: 9171 Glendale NE
 CITY, STATE: Alb

CONTACT: David Soule, PE
 PHONE: (505)321-9099
 ZIP CODE: 87122

OWNER: BLAKES LOTABURGER LLC
 ADDRESS: PO BOX 3648
 CITY, STATE: Albuquerque, NM

CONTACT: _____
 PHONE: _____
 ZIP CODE: 87190

ARCHITECT: JLS Architects
 ADDRESS: _____
 CITY, STATE: _____

CONTACT: Bill Kleinschmitt
 PHONE: _____
 ZIP CODE: _____

SURVEYOR: Geo-surv co
 ADDRESS: _____
 CITY, STATE: _____

CONTACT: John Gallegos
 PHONE: _____
 ZIP CODE: _____

CONTRACTOR: _____
 ADDRESS: _____
 CITY, STATE: _____

CONTACT: _____
 PHONE: _____
 ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

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

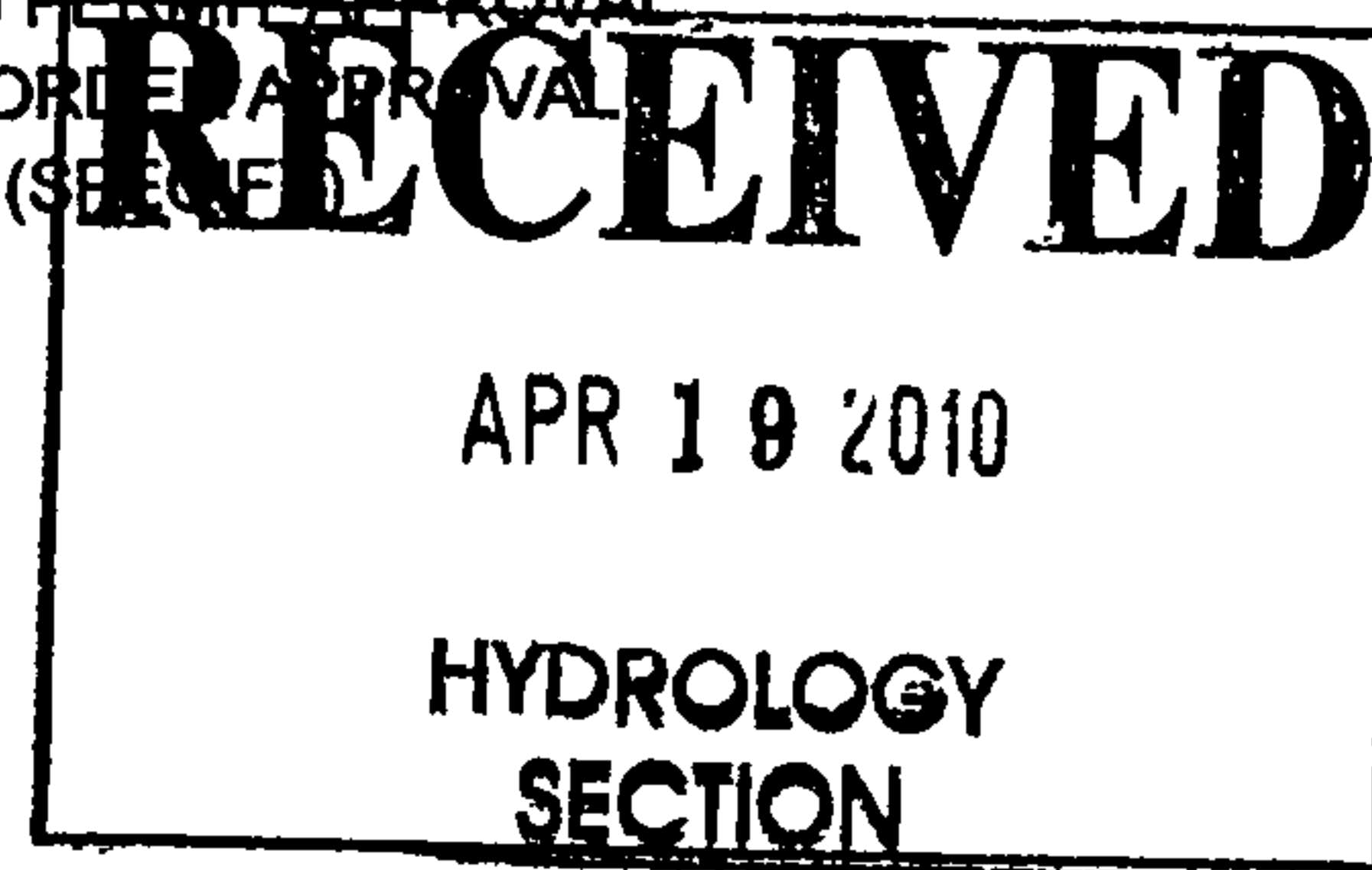
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SIA / FINANACIAL 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

\$50



DATE SUBMITTED: 4/19/2010 BY: David Soule

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 Plans:** 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.

DRAINAGE REPORT

For

**Blakes LotaBurger #27
2301 Carlisle NE
Albuquerque, New Mexico**

Prepared by

Rio Grande Engineering
PO Box 67305
Albuquerque, New Mexico 87193

April 2010



David Soule P.E. No. 14522

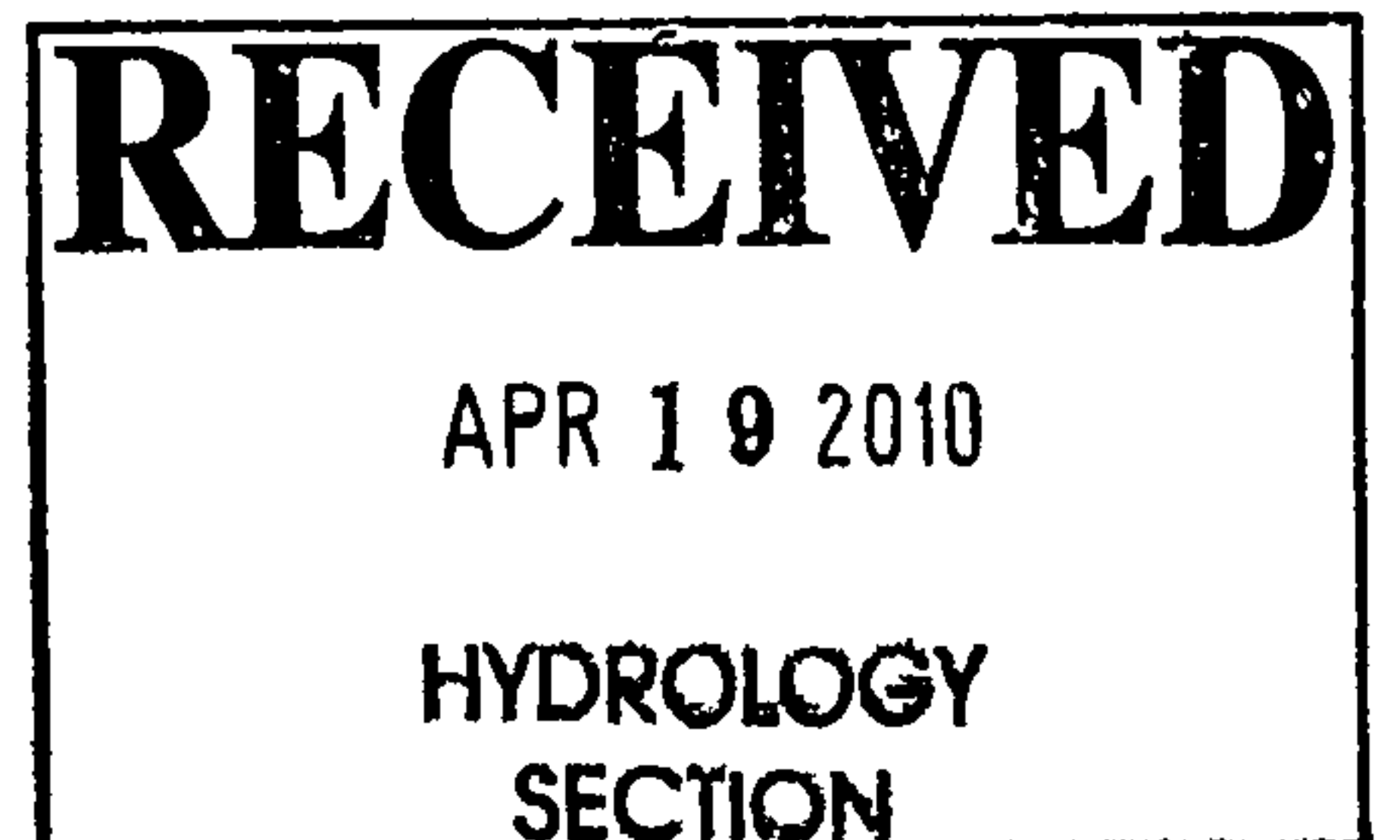


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Proposed Conditions5

Summary5

Appendix

Site Hydrology A

Map Pocket

Site Grading and Drainage Plan

PURPOSE

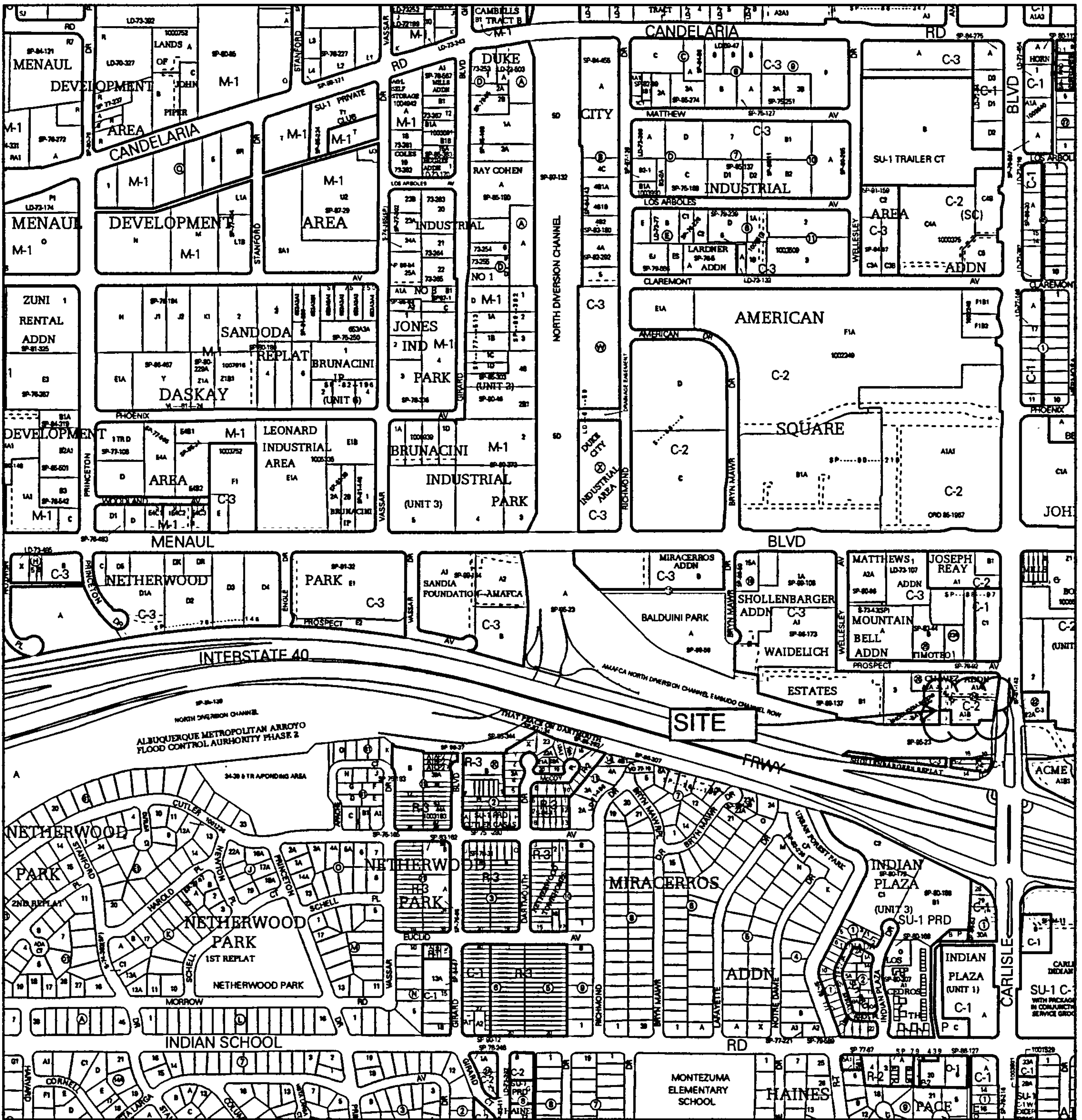
The purpose of this report is to provide the Drainage Management Plan for an addition of a drive-thru lane to an existing restaurant building located on the North West corner of Carlisle and Interstate 40. This plan was prepared in accordance with the City of Albuquerque design regulations, utilizing the City of Albuquerque's Development Process Manual drainage guidelines. This report will demonstrate that the grading does not adversely affect the surrounding properties, nor the upstream or downstream facilities.

INTRODUCTION

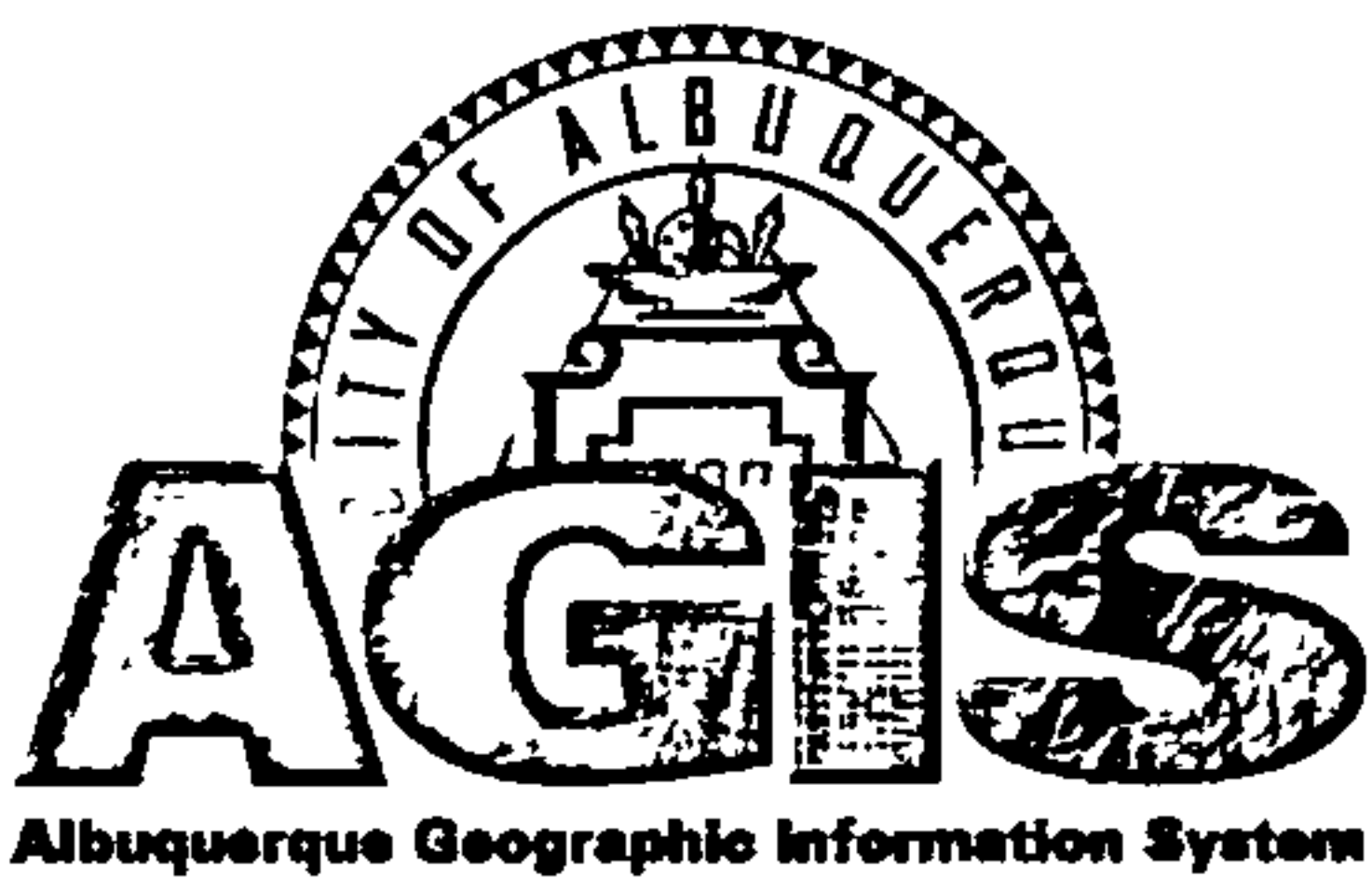
The subject of this report, as shown on the Exhibit A, is a 0.93-acre parcel of land located on the northwest corner of Carlisle and Interstate 40 NE. The legal description of this site is Tract A1B, Chavez addition1. As shown on FIRM map35013C0351E, the entire site is located within Flood Zone X. The southern portion of the site discharges to an existing rundown to the AMAFCA right-of-way, the northern portion of the site discharges to a common drive to the west.. The development of this site shall not alter the existing drainage patterns nor increase the peak flow rates.

EXISTING CONDITIONS

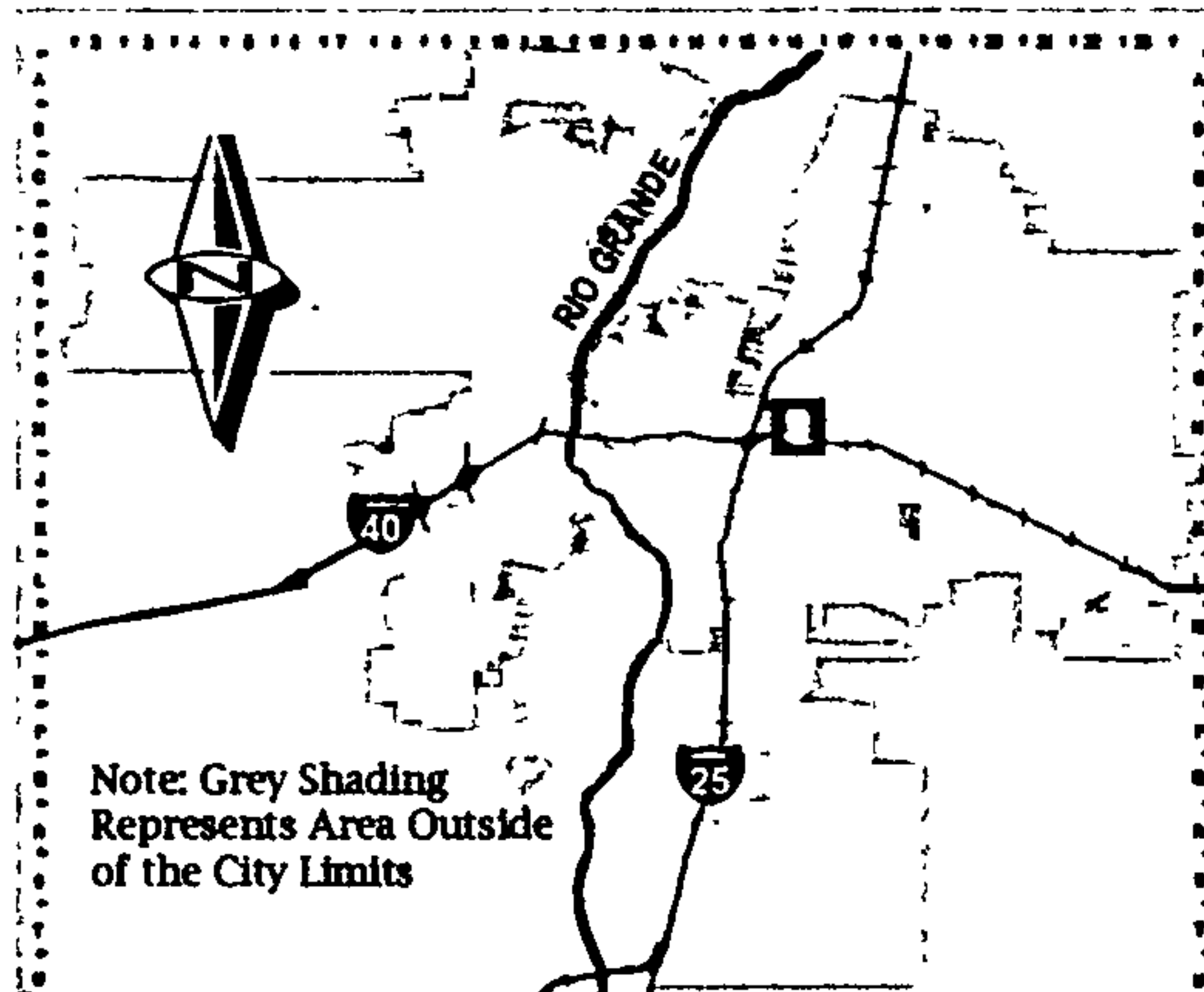
The site is currently developed. The site currently discharges 3.41 cfs. The site discharges 1.46 cfs to the common drive to the west. This flow continues North West where it is captured by City Storm sewer. The remaining site discharges 1.95 cfs directly to the AMAFCA right of way. The AMAFC basin consists of the undeveloped area that sheet flow to a side inlet on the North Diversion Channel at a peak rate of .83 cfs. The developed portion of the site drains to the same side inlet via a 2' concrete channel, this site currently discharges 1.12 cfs via this channel. A series of inlets locate at the driveway eliminate the upland flows.



For more current information and more details visit: <http://www.cabq.gov/gis>



Map amended through: 2/4/2010



Zone Atlas Page:

H-16-Z

Selected Symbols

- | | |
|----------------------|------------------------|
| SECTOR PLANS | Escarpment |
| Design Overlay Zones | 2 Mile Airport Zone |
| City Historic Zones | Airport Noise Contours |
| H-1 Buffer Zone | Wall Overlay Zone |
| Petroglyph Mon. | |

0 750 1,500 Feet

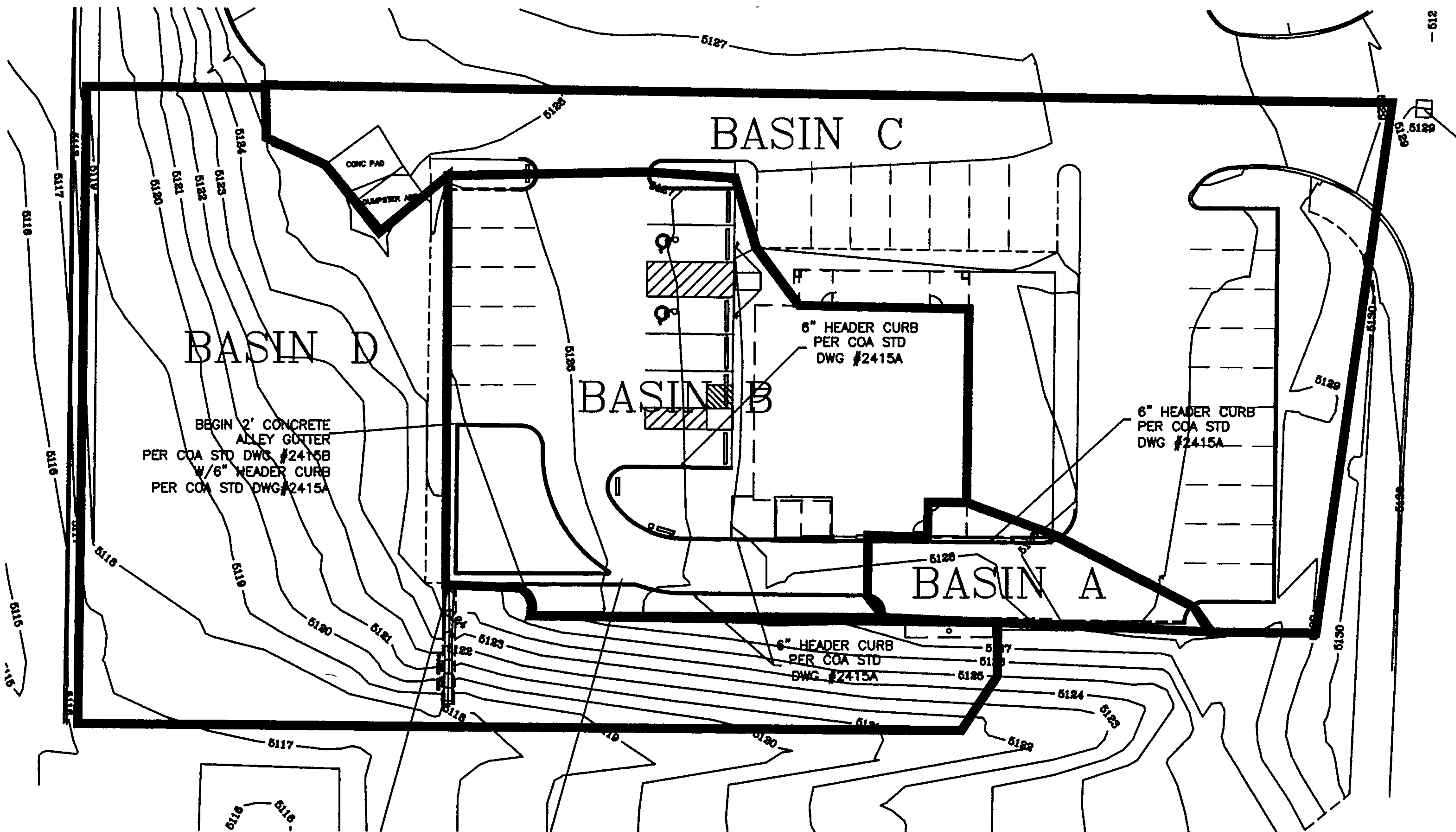
PROPOSED CONDITIONS

The proposed improvements consist of site modifications to allow for a drive-thru lane and a vestibule entrance. The site will be graded such that the drainage basins remain unchanged. The landscaping that is converted to parking will maintain the existing drainage patterns. The portion existing pavement converted to landscaping will also maintain existing patterns. As shown in appendix A the site contains 4 distinct basins. All basins are the same as the historical basins. The northern basin continues to drain 1.46 cfs to the common drive. The undeveloped areas of the site continue to discharge, 0.83 cfs as sheet flow to the AMAFCA side inlet. The area of work will discharge 1.1 cfs to the existing 2' rundown; this is a decrease of .02 cfs compared to existing. As show in appendix both curb openings and channels have capacity to convey the entire peak flow. The proposed site improvements maintain the historical drainage patterns and reduce the peak flow leaving the site by .02 cfs.

SUMMARY AND RECOMMENDATIONS

This project is an addition to an existing development. The proposed modifications preserve the existing drainage patterns and reduce the peak flow leaving the site. Since the effected area site encompasses less than 1 acre, a NPDES permit should not be required prior to any construction activity.

APPENDIX A
SITE HYDROLOGY



Weighted E Method

Existing Basins

											100-Year		
Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs
			%	(acres)	%	(acres)	%	(acres)	%	(acres)			
A	1396.00	0.032	0%	0	30%	0.010	50%	0.01602	20%	0.006	1.223	0.003	0.10
B	10004.00	0.230	0%	0	5%	0.011	10%	0.02297	85%	0.195	1.954	0.037	1.02
C	14395.00	0.330	0%	0	5%	0.017	10%	0.03305	85%	0.281	1.954	0.054	1.48
D	14532.00	0.334	20%	0.067	40%	0.133	40%	0.13344	0%	0.000	0.870	0.024	0.83
Total	40327.00	0.93		0.067		0.171		0.205		0.483		0.119	3.407

Proposed Developed Basins

											100-Year, 6-hr.			10-day
Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)
			%	(acres)	%	(acres)	%	(acres)	%	(acres)				
A	1396.00	0.032	0%	0	0%	0.000	7%	0.00224	93%	0.030	2.051	0.005	0.15	0.009
B	10004.00	0.230	0%	0	10%	0.023	20%	0.04593	70%	0.161	1.788	0.034	0.95	0.056
C	14395.00	0.330	0%	0	5%	0.017	10%	0.03305	85%	0.281	1.954	0.054	1.46	0.091
D	14532.00	0.334	20%	0.067	40%	0.133	40%	0.13344	0%	0.000	0.870	0.024	0.83	0.024
Total	40327.00	0.93		0.067		0.173		0.215		0.471		0.118	3.388	0.065

Equations:

Weighted E = $E_a \cdot A_a + E_b \cdot A_b + E_c \cdot A_c + E_d \cdot A_d$ / (Total Area)

Volume = Weighted D * Total Area

Flow = $Q_a \cdot A_a + Q_b \cdot A_b + Q_c \cdot A_c + Q_d \cdot A_d$

Where for 100-year, 6-hour storm

Ea= 0.53	Qa= 1.56
Eb= 0.78	Qb= 2.28
Ec= 1.13	Qc= 3.14
Ed= 2.12	Qd= 4.7

Existing Condition
Discharge

3.41 cfs

Developed Conditions
Discharge

3.39 cfs

DECREASE

0.02 CFS

Flow to 18" curb opening
flow to 2' rundown

0.15 cfs
1.10 cfs

Curb openings

Weir Equation:

$$Q = CLH^{3/2}$$

Southern opening to cobble swale

Q = .15 cfs

C = 2.95

H = 0.5 ft

L = Length of weir

$$L = \frac{.15}{2.95(0.5)^{3/2}}$$

L = .146 ft

Use 1.50 feet for length of weir

Western opening to concrete swale

Q = 1.1 cfs

C = 2.95

H = 0.5 ft

L = Length of weir

$$L = \frac{.15}{2.95(0.5)^{3/2}}$$

L = 1.06 ft

Use 2.0 feet for length of weir

Channel Capacity

	Top Width	Bottom Width	Depth	Area	WP	R	Slope	Q Provided	Q Required	Velocity
	(ft)	(ft)	(ft)	(ft^2)	(ft)		(%)	(cfs)	(cfs)	(ft/s)
concrete	2	2	0.5	1.00	3.00	0.3333333	1.9	5.81	1.10	1.10
cobble swale	3	1	1.05	2.10	3.90	0.5384615	2	8.37	0.15	0.07

Manning's Equation:

$Q = 1.49/n * A * R^{(2/3)} * S^{(1/2)}$

- A = Area
- R = D/4
- S = Slope
- n = 0.017 concrete
- n = 0.035 cobble



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 10, 1995

Bob Ryals
Ryals Engineering
5301 Central NE
Albuquerque, NM 87108

RE: REVISED ENGINEER CERTIFICATION FOR RUDY'S COUNTRY STORE
(H16-D106) CERTIFICATION STATEMENT DATED 3/21/95.

Dear Mr. Ryals:

Based on the information provided on your March 29, 1995
submittal, Engineer Certification for the above referenced site
is acceptable.

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

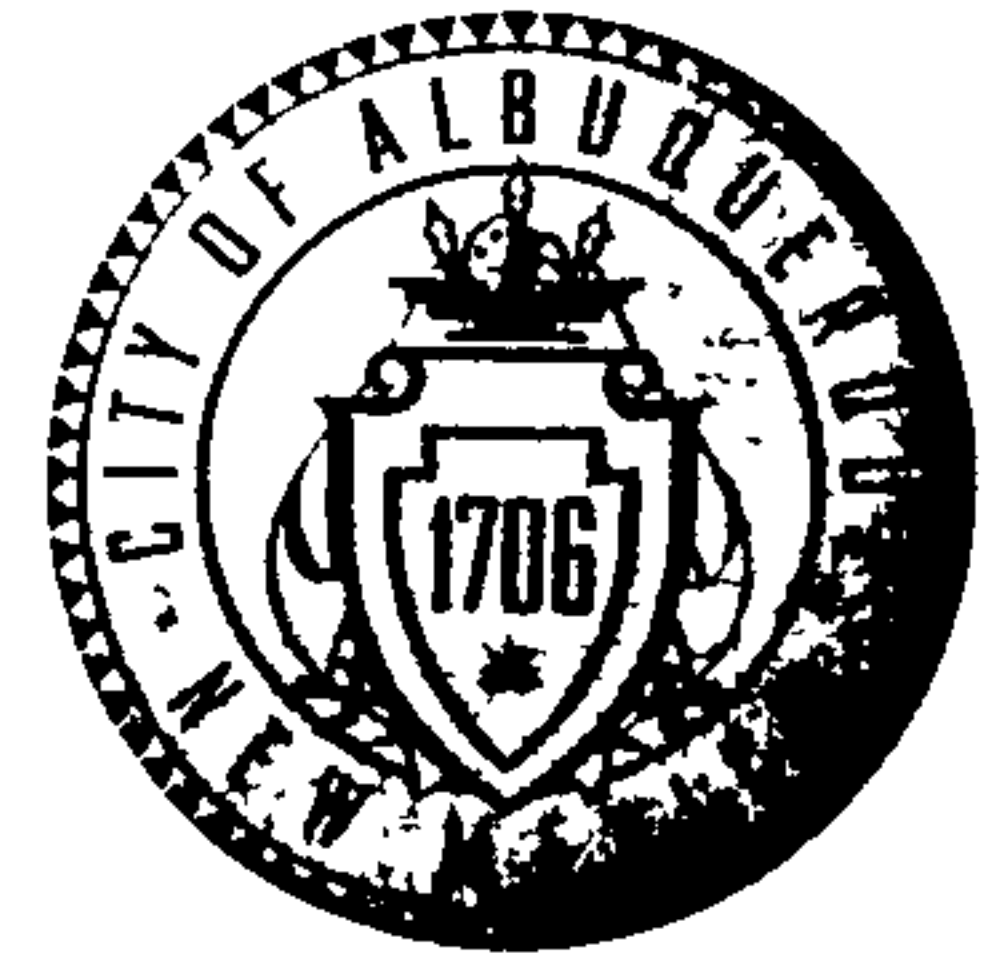
Sincerely,

Bernie J. Montoya
Bernie J. Montoya, CE
Engineering Associate

BJM/dl

c: Andrew Garcia
File

CITY OF ALBUQUERQUE



April 9, 2010

Joe Slagle, R.A.
Slagle Herr Architects
1600 Rio Grande NW
Albuquerque, NM 87104

Re: Blake's Lotaburger #27 Building and Drive Through Addition, 2301 Carlisle Blvd NE,
Traffic Circulation Layout
Architect's Stamp dated 04-07-10 (H16-D106)

Dear Mr. Slagle,

The TCL submittal received 04-07-10 is approved for Building Permit. The plan is stamped and signed as approved. A copy of this plan will be needed for each of the building permit plans. Please keep the original to be used for certification of the site for final C.O. for Transportation. **Public infrastructure or work done within City Right-of-Way shown on these plans is for information only and is not part of approval. A separate DRC and/or other appropriate permits are required to construct these items.**

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

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

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

Sincerely,

Kristal D. Metro, P.E.
Traffic Engineer, Planning Dept.
Development and Building Services

C: File

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV. 1/28/2003rd)

PROJECT TITLE: BLAKE'S LOTABURGER # 27 DRIVE-THROUGH

ZONE MAP/DRG. FILE #: H-16/D104
WORK ORDER#: _____

RB #: _____

EPC#: _____

LEGAL DESCRIPTION: TRACT LETTERED A-1-B PUT FOR TRACT A-1-A, A-1-B AND A-2-A, BLOCKS 24 & 26,

CITY ADDRESS: 2301 CARLISLE NE

7107ED CHAVEZ ADDITION, CITY OF ABQ, BERNALILLO COUNTY, N.M.

ENGINEERING FIRM: RIO GRANDE ENGINEERING
ADDRESS: 1606 CENTRAL SE, SUITE 201
CITY, STATE: ALBUQUERQUE, NM

CONTACT: DAVID SOULE
PHONE: 872-0999
ZIP CODE: 87106

OWNER: BLAKE'S LOTABURGER
ADDRESS: PO BOX 3648
CITY, STATE: ALBUQUERQUE, NM

CONTACT: ROBIN BARBER
PHONE: 681-7850
ZIP CODE: 87190

ARCHITECT: SLAGLE HERR ARCHITECTS
ADDRESS: 1600 RIO GRANDE BLVD NW
CITY, STATE: ALBUQUERQUE, NM

CONTACT: BILL KLEINSCHMIDT
PHONE: 246-0870
ZIP CODE: 87104

SURVEYOR: RIO GRANDE ENGINEERING
ADDRESS: 1606 CENTRAL SE, SUITE 201
CITY, STATE: ALBUQUERQUE, NM

CONTACT: DAVID SOULE
PHONE: 872-0999
ZIP CODE: 87106

CONTRACTOR: C. R. CRAWFORD CONSTRUCTION
ADDRESS: P O BOX 277
CITY, STATE: TIJERAS, NM

CONTACT: ROBIN BARBER
PHONE: 681-8750
ZIP CODE: 87059

CHECK TYPE OF SUBMITTAL:

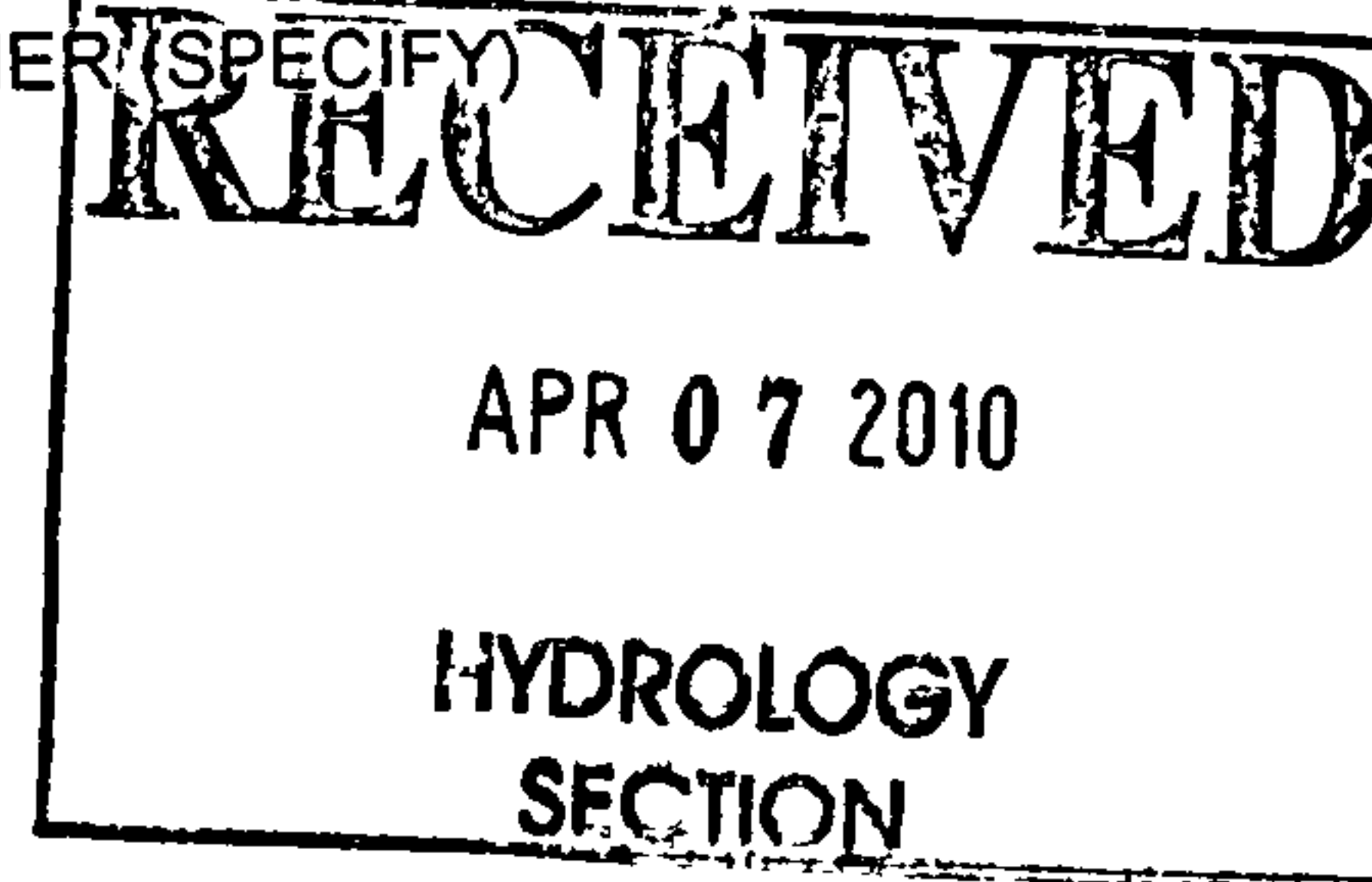
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL, *REQUIRES TCL or equal*
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☒ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEERS CERTIFICATION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

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SIA / FINANCIAL GUARANTEE RELEASE
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D. APPROVAL
- ☐ 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: 3-23-10

BY: BILL KLEINSCHMIDT

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 subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

4-7-2010

RE: TCL Re-Submittal - Blake's Lotaburger #27 Building and Drive-Through Addition, 2301 Carlisle Blvd. NE

Kristal Metro, PE
Traffic Engineer, Planning Dept., Development and Building Services
City of Albuquerque
P. O. Box 1293
Albuquerque, NM 87103

Kristal,

Attached find two copies of the revised TCL for the above-referenced project. Also attached is a copy of your comments from the original TCL submittal, and we have responded to the comments as follows:

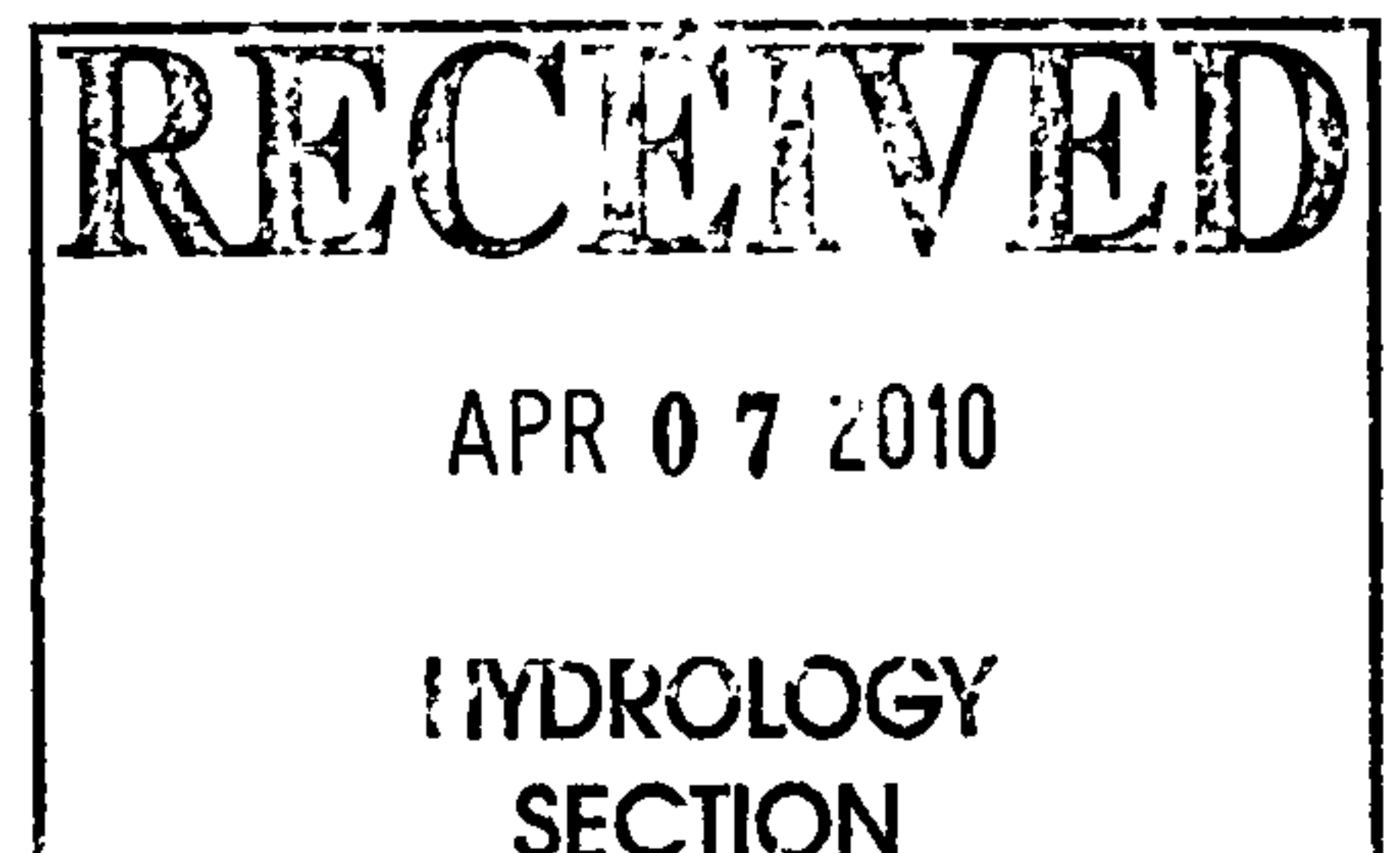
1. The deliveries ramp has been moved to within the sidewalk along the west side of the building.
2. The drive-through lane configuration has been adjusted so that the inside edge has a 25' radius.
3. The parking stall south of the deliveries aisle has been eliminated and replaced with landscaping.
4. The new curb at the east end of the drive-through land has been increased to a 15' radius. The curved curbs at the north entrance to the drive-through lane are shown as 10' radius since a 15' radius does not fit.
5. The purpose of the 1' sidewalk along the south side of the building is to provide a buffer space between the new drive-up window (which projects 10" out from the building wall) and vehicles.
6. A detail for the new wheelchair ramp is included on the new TCL sheet.
7. Dimensions have been added to all sidewalks.
8. The revised TCL is stamped, signed and dated.
9. The TCL drawing scale has been changed to 1" = 10'.

If you have any questions, comments, or need additional information, please contact me at 505-246-0870 x 3, or email to bill@slagleherr.com.

Sincerely,



Bill Kleinschmidt, Architect



slagle
HERR

Architects

1600 rio grande nw albuquerque
fax 505 246 0437 new mexico 87104 505 246 0870

CITY OF ALBUQUERQUE



April 1, 2010

Daniel Herr, R.A.
Slagle Herr Architects
1600 Rio Grande NW
Albuquerque, NM 87104

**Re: Blake's Lotaburger #27 Building and Drive Thru Addition,
2301 Carlisle Boulevard NE, Traffic Circulation Layout
No Architect's Stamp (H16-D106)**

Dear Mr. Herr,

Based upon the information provided in your submittal received 03-23-10, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

1. The deliveries ramp as shown is not acceptable. All proposed ramps must be contained within the sidewalk, as locating a ramp outside of this area produces a tripping hazard.
2. Drive through facilities have a minimum lane width of 12 feet with a 25 foot minimum inside edge radius, or a minimum lane with of 14 feet with a 15 foot minimum inside edge radius.
3. The parking stall located south of the proposed delivery ramp cannot maneuver without conflicting with the drive thru queue. This stall should be removed.
4. All proposed curbing needs to meet minimum radii criteria. For passenger vehicles, the minimum end island radius is 15 feet.
5. What is the purpose of the 1-foot wide sidewalk located south of the restaurant?
6. Provide a detail for the proposed wheelchair ramp. Define the maximum slopes.
7. Call out the width of all sidewalk, both existing and proposed.
8. The traffic circulation layout must be stamped, signed, and dated by an engineer or architect licensed in the state of New Mexico.
9. Per the Development Process Manual, Chapter 27, Section 2, Part B.1, only the following scales may be used:
 - 1" = 50'
 - 1" = 40'
 - 1" = 20'
 - 1" = 10'
 - 1" = 100' (for overall layouts only)

If you have any questions, you can contact me at 924-3991.

Sincerely,

Kristal D. Metro, P.E.
Traffic Engineer, Planning Dept.
Development and Building Services

C: File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: BLAKE'S LOTABURGER # 27 DRIVE-THROUGH

DRB #: _____

EPC#: _____

ZONE MAP/DRG. FILE #: H-16/D106

WORK ORDER#: _____

LEGAL DESCRIPTION: TRACT LETTERED A-1-B PUT FOR TRACT A-1-A, A-1-B AND A-2-A, BLOCKS 24 & 26,

CITY ADDRESS: 2301 CARLISLE NE

LIMOTEO CHAVEZ ADDITION, CITY OF ABQ, BERNALILLO COUNTY, N.M.

ENGINEERING FIRM: RIO GRANDE ENGINEERING

ADDRESS: 1606 CENTRAL SE, SUITE 201

CITY, STATE: ALBUQUERQUE, NM

CONTACT: DAVID SOULE

PHONE: 872-0999

ZIP CODE: 87106

OWNER: BLAKE'S LOTABURGER

ADDRESS: POBOX 3648

CITY, STATE: ALBUQUERQUE, NM

CONTACT: ROBIN BARBER

PHONE: 681-7850

ZIP CODE: 87190

ARCHITECT: SLAGLE HERR ARCHITECTS

ADDRESS: 1600 RIO GRANDE BLVD NW

CITY, STATE: ALBUQUERQUE, NM

CONTACT: BILL KLEINSCHMIDT

PHONE: 246-0870

ZIP CODE: 87104

SURVEYOR: RIO GRANDE ENGINEERING

ADDRESS: 1606 CENTRAL SE, SUITE 201

CITY, STATE: ALBUQUERQUE, NM

CONTACT: DAVID SOULE

PHONE: 872-0999

ZIP CODE: 87106

CONTRACTOR: C. R. CRAWFORD CONSTRUCTION

ADDRESS: P O BOX 277

CITY, STATE: TIJERAS, NM

CONTACT: ROBIN BARBER

PHONE: 681-8750

ZIP CODE: 87059

CHECK TYPE OF SUBMITTAL:

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

CHECK TYPE OF APPROVAL SOUGHT:

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

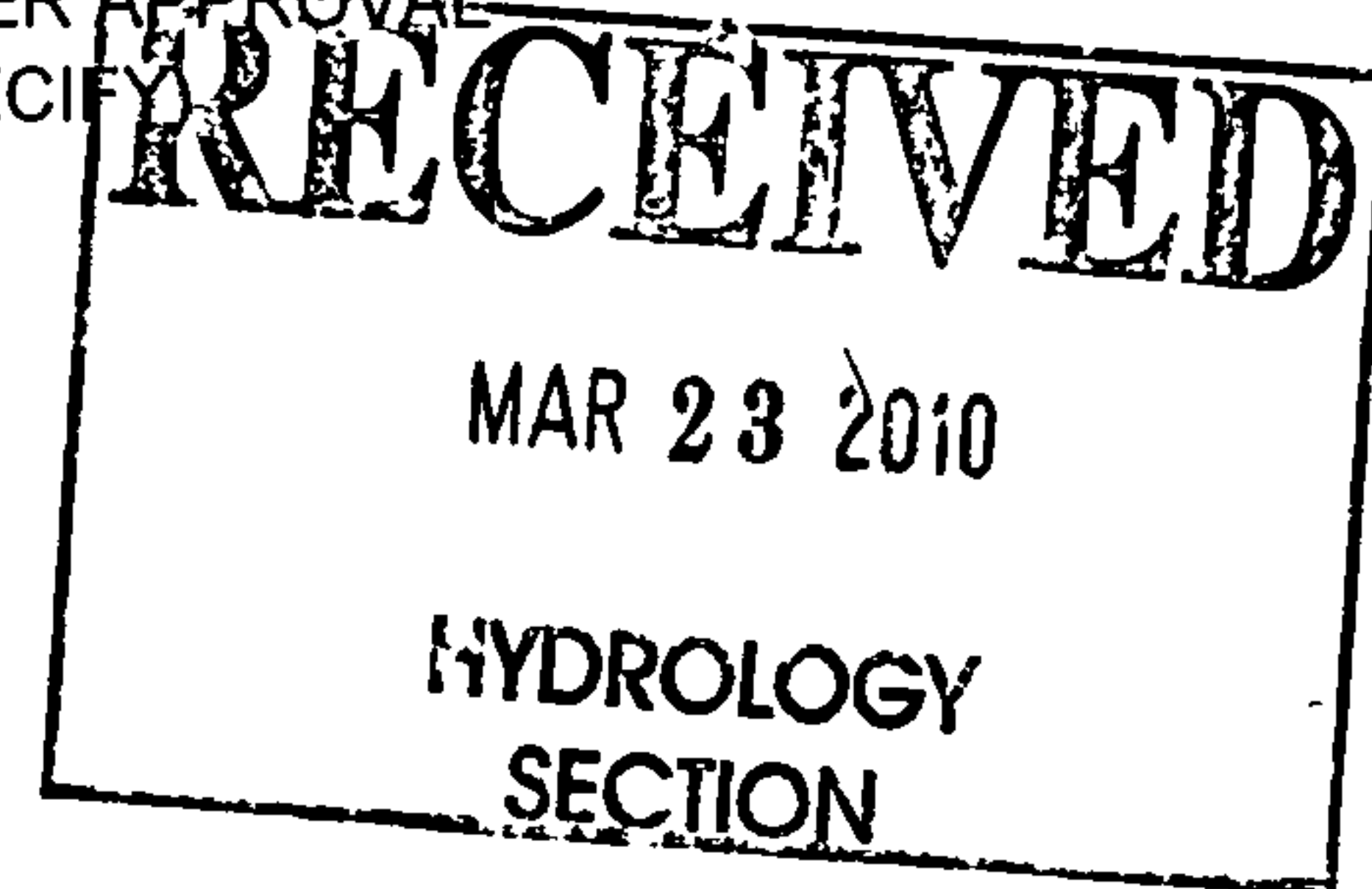
- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

DATE SUBMITTED: 3-23-10

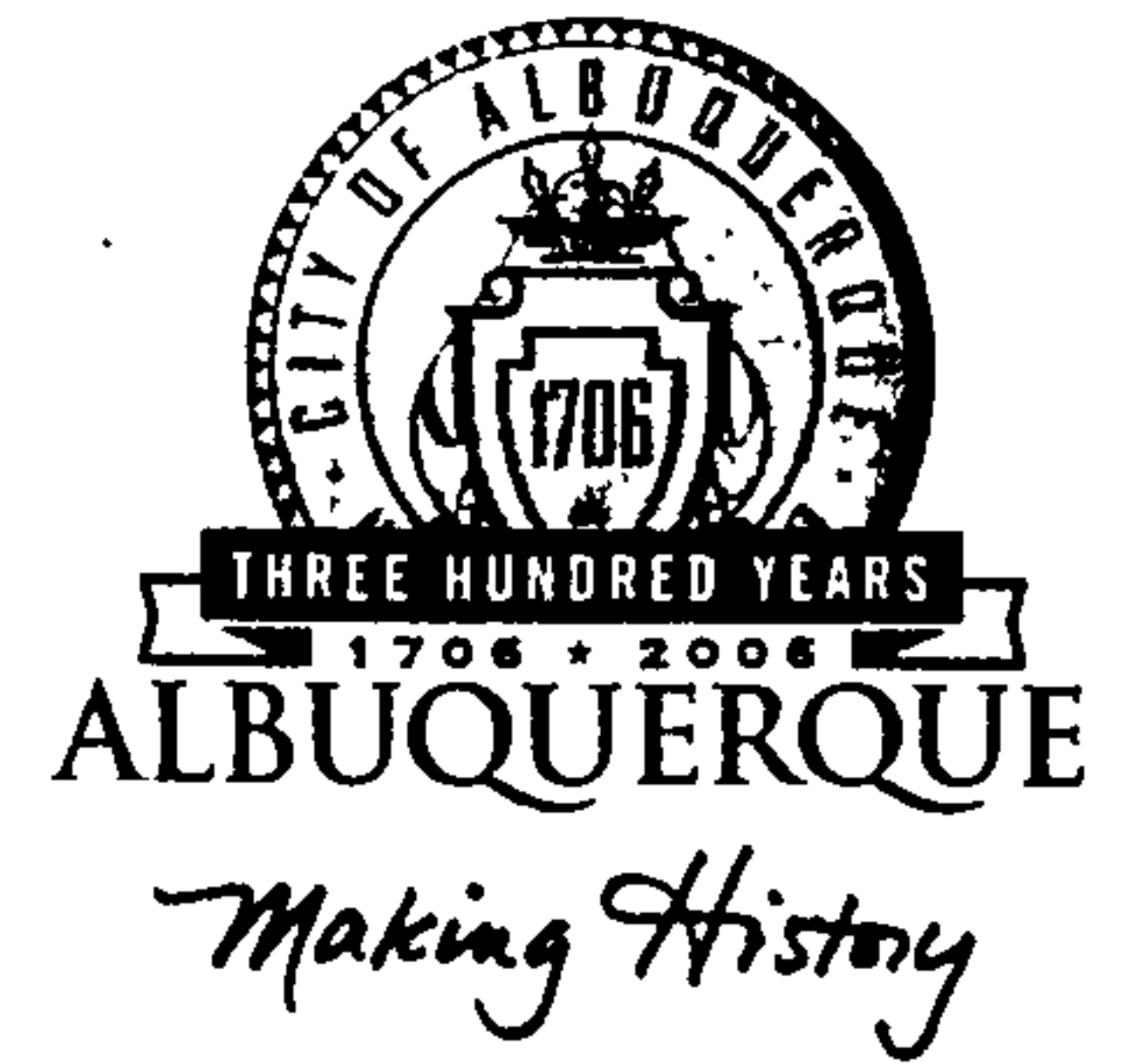
BY: BILL KLEINSCHMIDT

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 subdivisions containing more than ten (10) lots or constituting five (5) acres or more.



CITY OF ALBUQUERQUE



June 1, 2005

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

**Re: Blake's Lotaburger, Grading and Drainage Plan
Engineer's Stamp dated 5-13-05 (H16-D106)**

Dear Mr. Mortensen,

Based upon the information provided in your submittal received 5-16-05, the above referenced plan is approved for Paving Permit and Grading Permit. Upon completion of the project, please provide an Engineer Certification for our files.

P.O. Box 1293

If you have any questions, you can contact me at 924-3981.

Albuquerque

New Mexico 87103

Sincerely,

Kristal D. Metro
Engineering Associate, Planning Dept.
Development and Building Services

www.cabq.gov

C: File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: BLAKE'S LOTABURGER #27 DRIVE-THRU ZONE ATLAS/DRNG. FILE #: H16 D106
 DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: TRACT A-1-B, TIMOTEO CHAVEZ ADDITION
 CITY ADDRESS: 2301 CARLISLE NE, ALBUQUERQUE, NM

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

OWNER: BLAKE'S LOTABURGER CONTACT: ARCHITECT
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

ARCHITECT: CISNEROS DESIGN STUDIO CONTACT: ERIC HASKINS
 ADDRESS: 917-A COPPER AVENUE NW PHONE: 842-6875
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87102

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

CONTRACTOR: GEAR & CONDON CONTACT: ARCHITECT
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

TYPE OF SUBMITTAL:

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

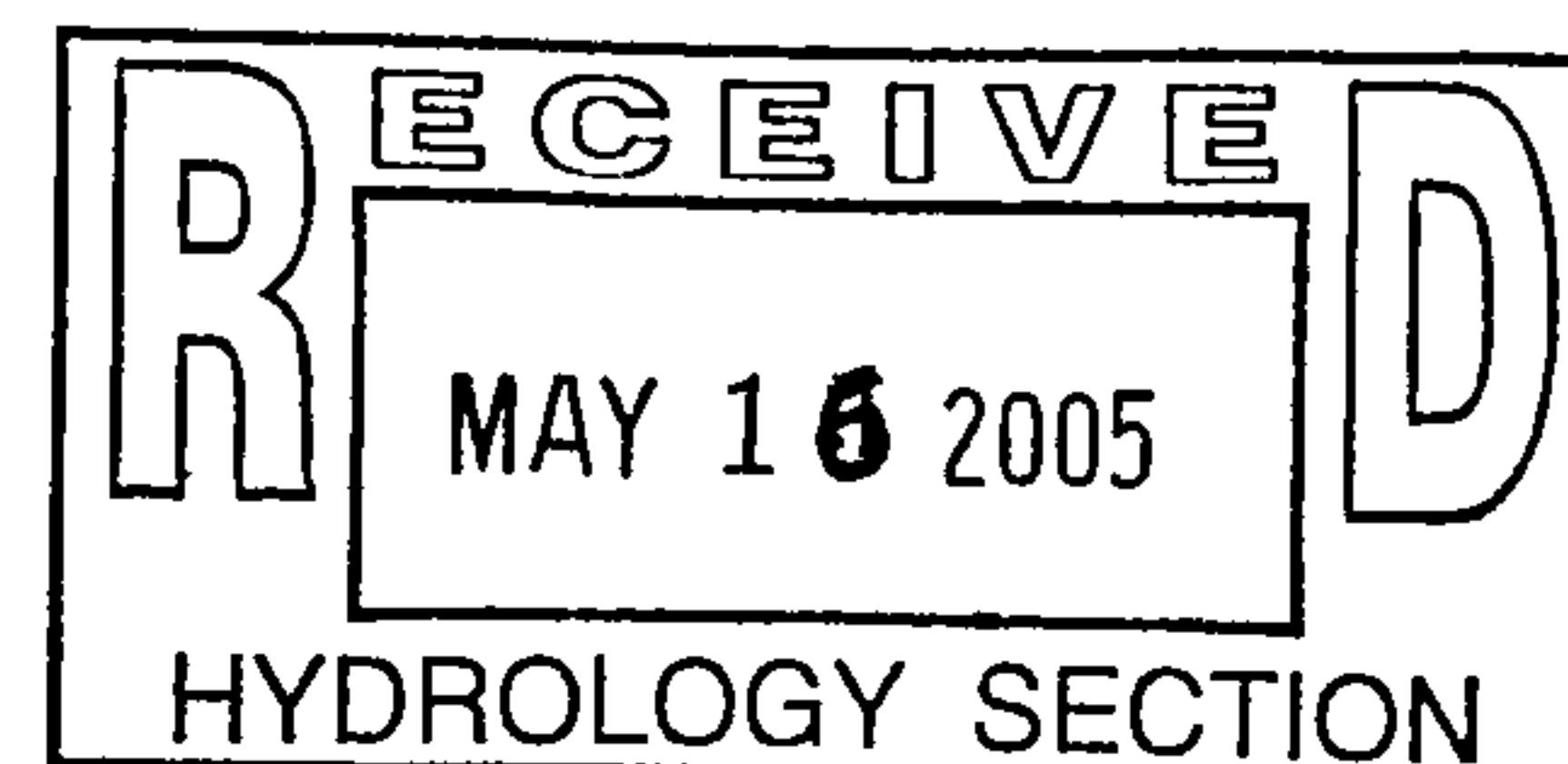
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ 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 - INFORMAL WITH BRAD BINGHAM
☐ NO
☐ COPY PROVIDED

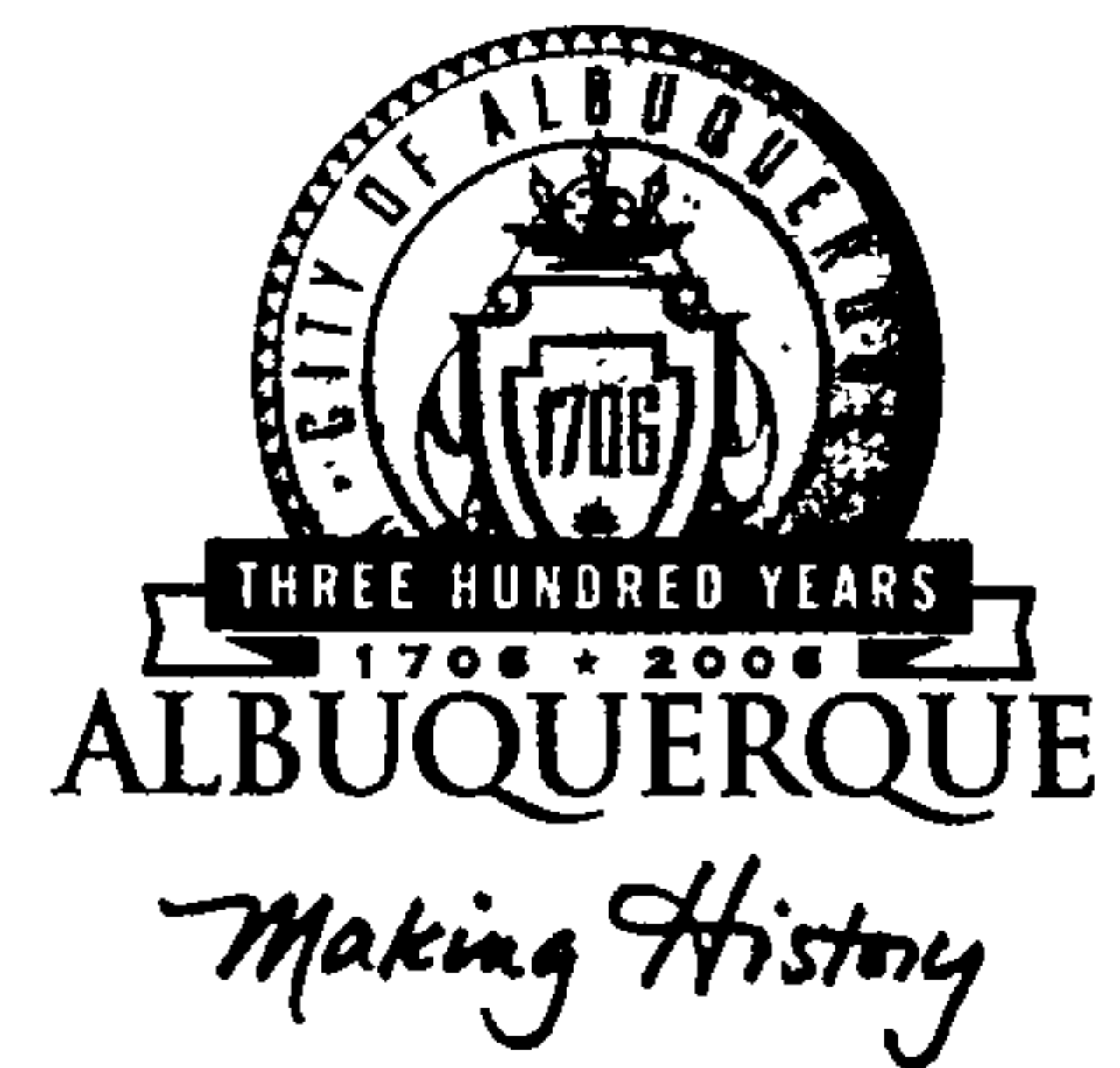
DATE SUBMITTED: 05/13 /2005 BY: JEFFREY G. MORTENSEN



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



May 25, 2005

Romulo Cisneros, R.A.
Cisneros Design Studio
917-A Copper NW
Albuquerque, NM 87102

Re: Blakes Lotaburger, 2301 Carlisle Blvd. NE, Traffic Circulation Layout
Architect's Stamp dated 5-16-05 (H16-D106)

Dear Mr. Cisneros,

The TCL submittal received 5-18-05 is approved for Building Permit. The plan is stamped and signed as approved. A copy of this plan will be needed for each of the building permit plans. Please keep the original to be used for certification of the site for final C.O. for Transportation.

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

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

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

Sincerely,

Phillip J. Lovato
Engineering Associate, Planning Dept.
Development and Building Services

cc: file

RE-SUBMITTAL

APPROVED

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: Blake's Lotaburger #27 DRIVE-THRU ALTERATION
DRB #: _____ EPC#: _____ ZONE MAP/DRG. FILE #: H16-D106
WORK ORDER#: _____

LEGAL DESCRIPTION: TRACT A-B, Blocks 24+26, Timoteo Chavez Add'n.
CITY ADDRESS: 2301 CARLISLE NE.

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

CONTACT: _____
PHONE: _____
ZIP CODE: _____

OWNER: Blake's Lotaburger
ADDRESS: 3205 RICHMOND N.E.
CITY, STATE: Albany, NM 87102

CONTACT: _____
PHONE: 884-2160
ZIP CODE: 87190

ARCHITECT: CISNEROS DESIGN STUDIO
ADDRESS: 917-A COPPER NW
CITY, STATE: Albany, NM 87102

CONTACT: ERK HASKINS
PHONE: 842-6873
ZIP CODE: 87102

SURVEYOR: SURVEYS SOUTHWEST
ADDRESS: _____
CITY, STATE: _____

CONTACT: DAN GRANEY
PHONE: _____
ZIP CODE: _____

CONTRACTOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

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

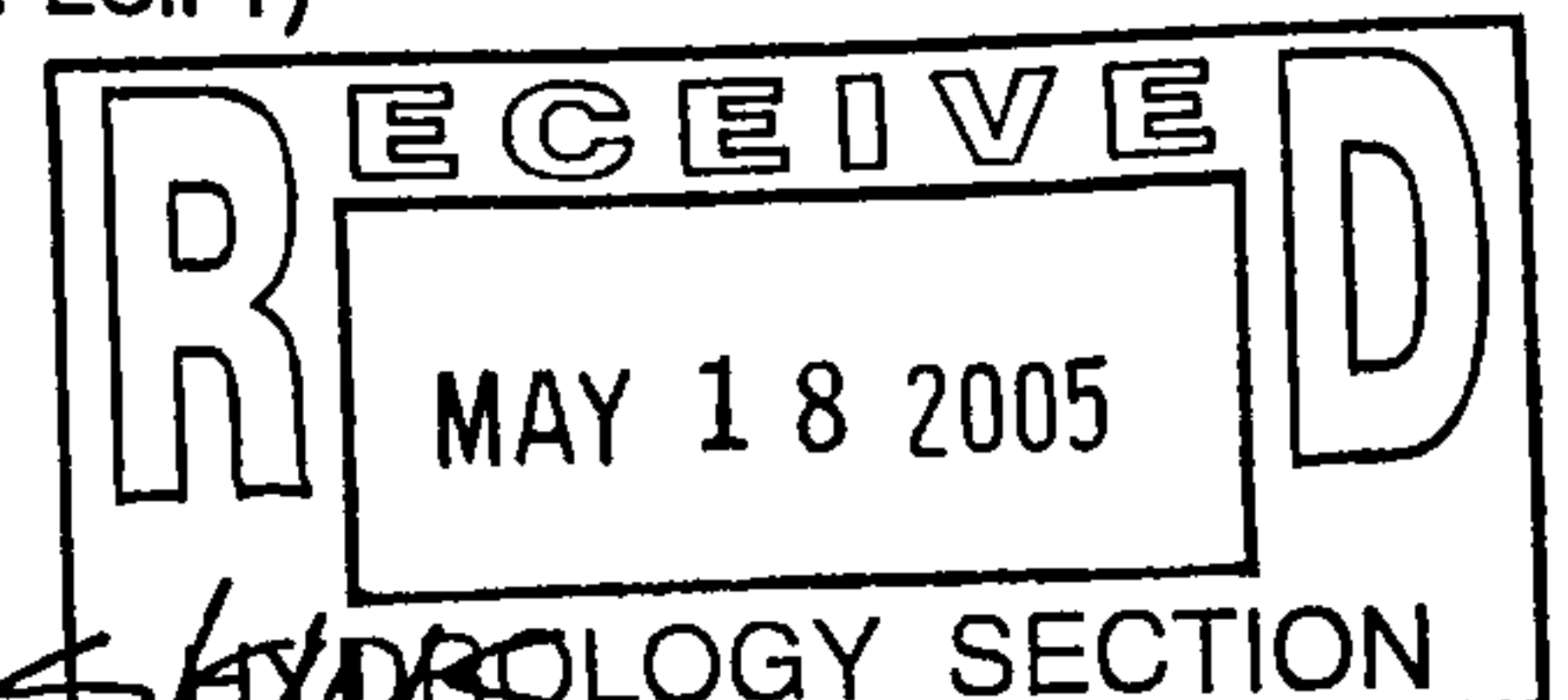
CHECK TYPE OF APPROVAL SOUGHT:

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

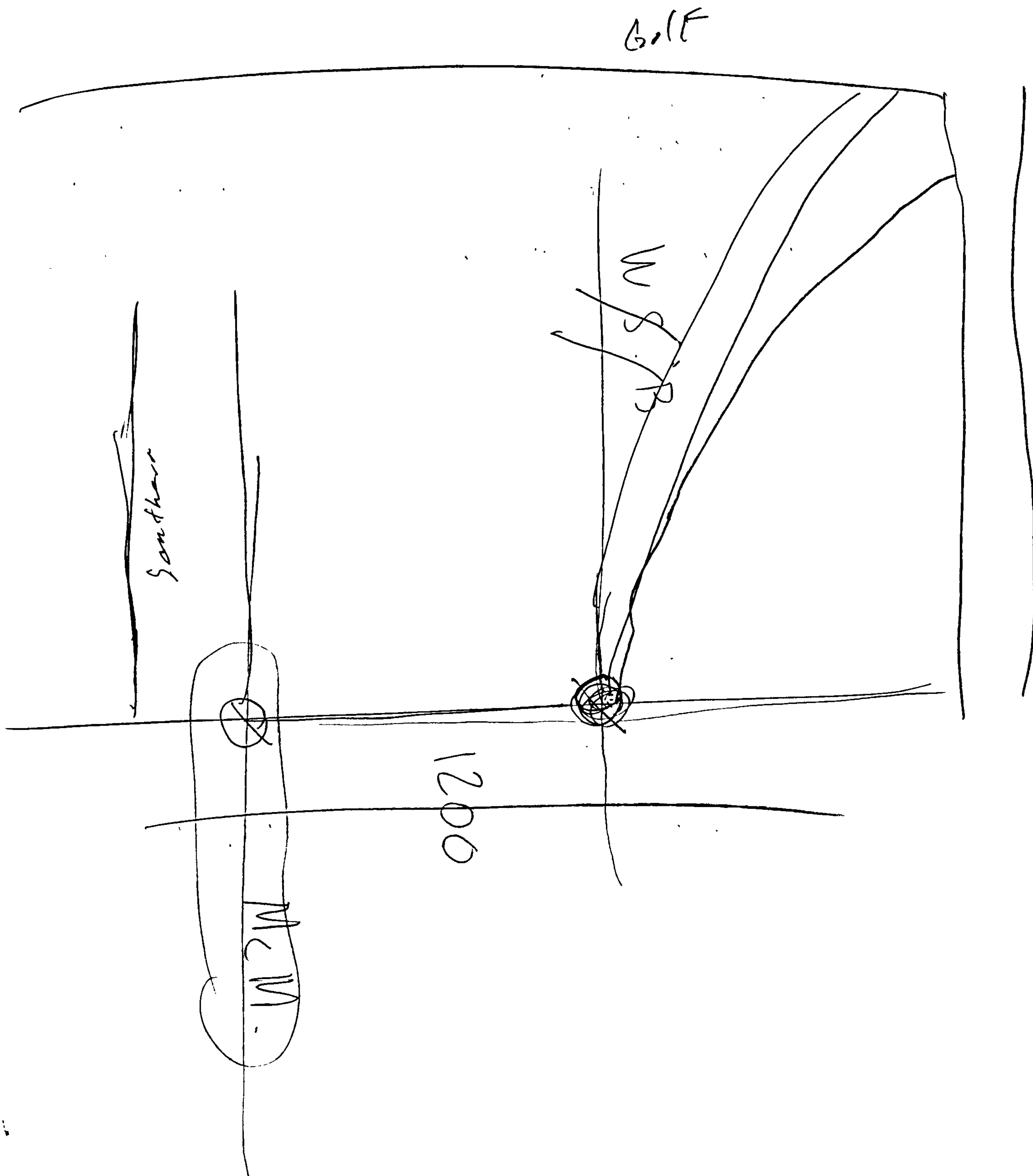
DATE SUBMITTED: 5-18-05 BY: ERIC HASKINS



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APPROVED





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

September 16, 1994

Bob Ryals
Ryals Engineering & Construction Services
4929 Idlewilde SE
Albuquerque, NM 87108

RE: TEMPORARY ENGINEER CERTIFICATION FOR RUDY'S COUNTRY STORE
& BLAKE'S LOTABURGER (H16-D106) CERTIFICATION STATEMENT DATED
9/14/94.

Dear Mr. Ryals:


Based on the information provided on your September 14, 1994 submittal, a 30 day Temporary Certificate of Occupancy has been released for both above referenced sites.

Please be advised that prior to permanent Certificate of Occupancy release, the following must be addressed on the resubmittal.

1. Rudy's Country Store has been instructed to install roof gutters on the patio area to the northeast of the building. Please identify on the Certification and plan drawing.
2. Also, please include the pipe penetration on the south side of the building which go under the sidewalk on the plan drawing.

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

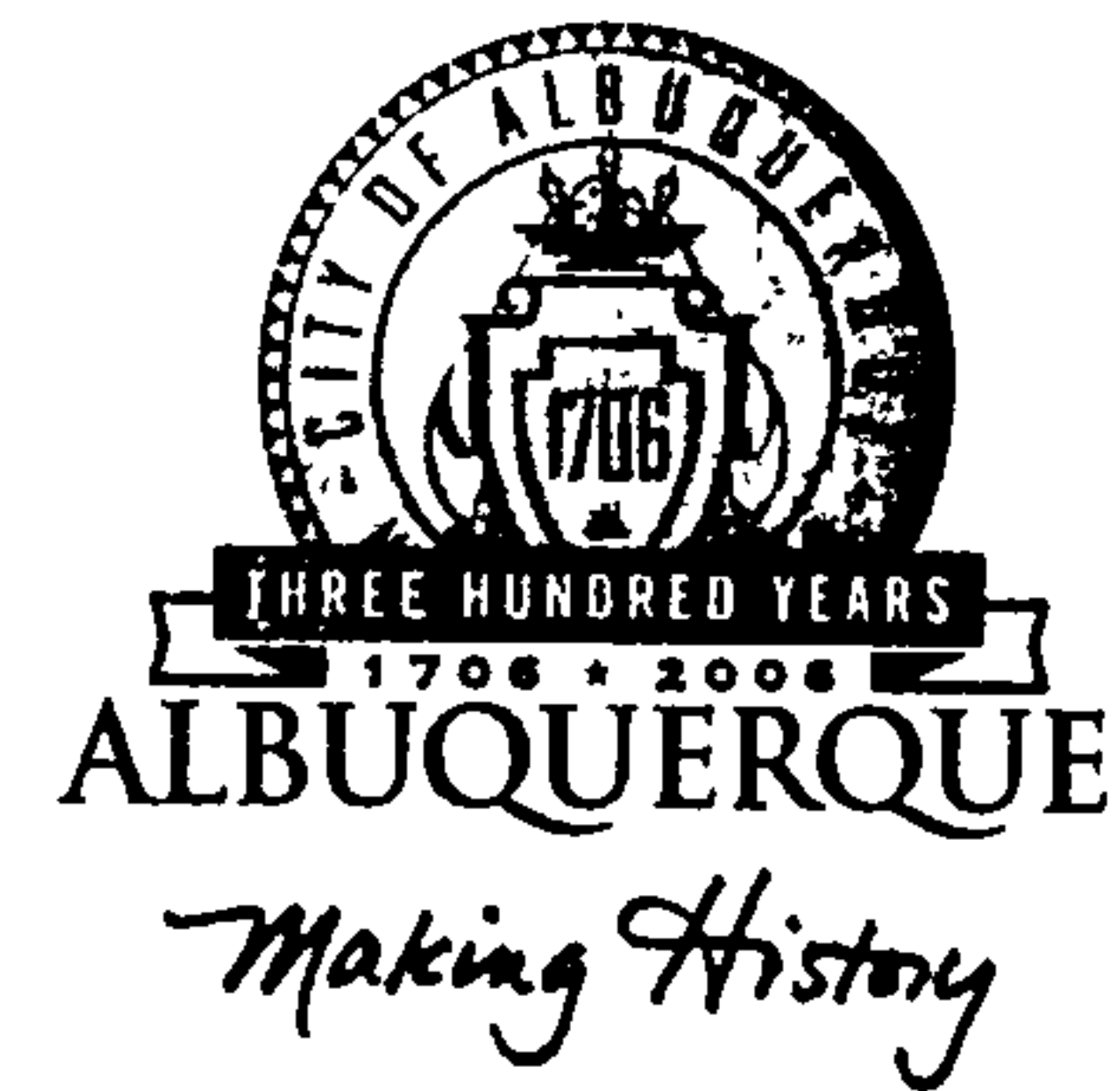
Sincerely,


Bernie J. Montoya, CE
Engineering Associate

BJM/d1/WPHYD/8328

c: Andrew Garcia
File

CITY OF ALBUQUERQUE



May 13, 2005

Romulo Cisneros, R.A.
Cisneros Design Studio
917-A Copper NW
Albuquerque, NM 87102

**Re: Blakes Lotaburger, 2301 Carlisle Blvd NE, Traffic Circulation Layout
Architect's Stamp dated 5-02-05 (H16-D106)**

Dear Mr. Cisneros,

Based upon the information provided in your submittal received 5-05-05, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

P.O. Box 1293

1. For passenger vehicles, the minimum end island radius is 15 feet. This minimum must be abided by within the drive thru.
2. The handicapped spaces must include an 8-foot wide van access aisle; all other aisles should be 5 feet in width.

Albuquerque

If you have any questions, you can contact me at 924-3991.

New Mexico 87103

Sincerely,

Wilfred A. Gallegos, P.E.
Traffic Engineer, Planning Dept.
Development and Building Services

www.cabq.gov

C: file

H-16 / ~~D106~~
D106

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: BLAKE'S LOTABURGER #27 DRIVE-THRU ZONE MAP/DRG. FILE #: H-16-Z
DRB #: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: TRACT A-1-B, Blocks 24+26, Timoteo Chavez Add'n, City of Albuquerque.
CITY ADDRESS: 2301 Carlisle N.E.

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

CONTACT: _____
PHONE: _____
ZIP CODE: _____

OWNER: Blake's Lotaburger
ADDRESS: _____
CITY, STATE: _____

CONTACT: Brian Rule
PHONE: _____
ZIP CODE: _____

ARCHITECT: Cisneros Design Studio
ADDRESS: 917-A Copper Ave. NW
CITY, STATE: Albuquerque, NM 87102

CONTACT: Eric Haskins
PHONE: 812-6873
ZIP CODE: 87102

SURVEYOR: Survey Southwest
ADDRESS: _____
CITY, STATE: _____

CONTACT: Dan Grancy
PHONE: _____
ZIP CODE: _____

CONTRACTOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

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

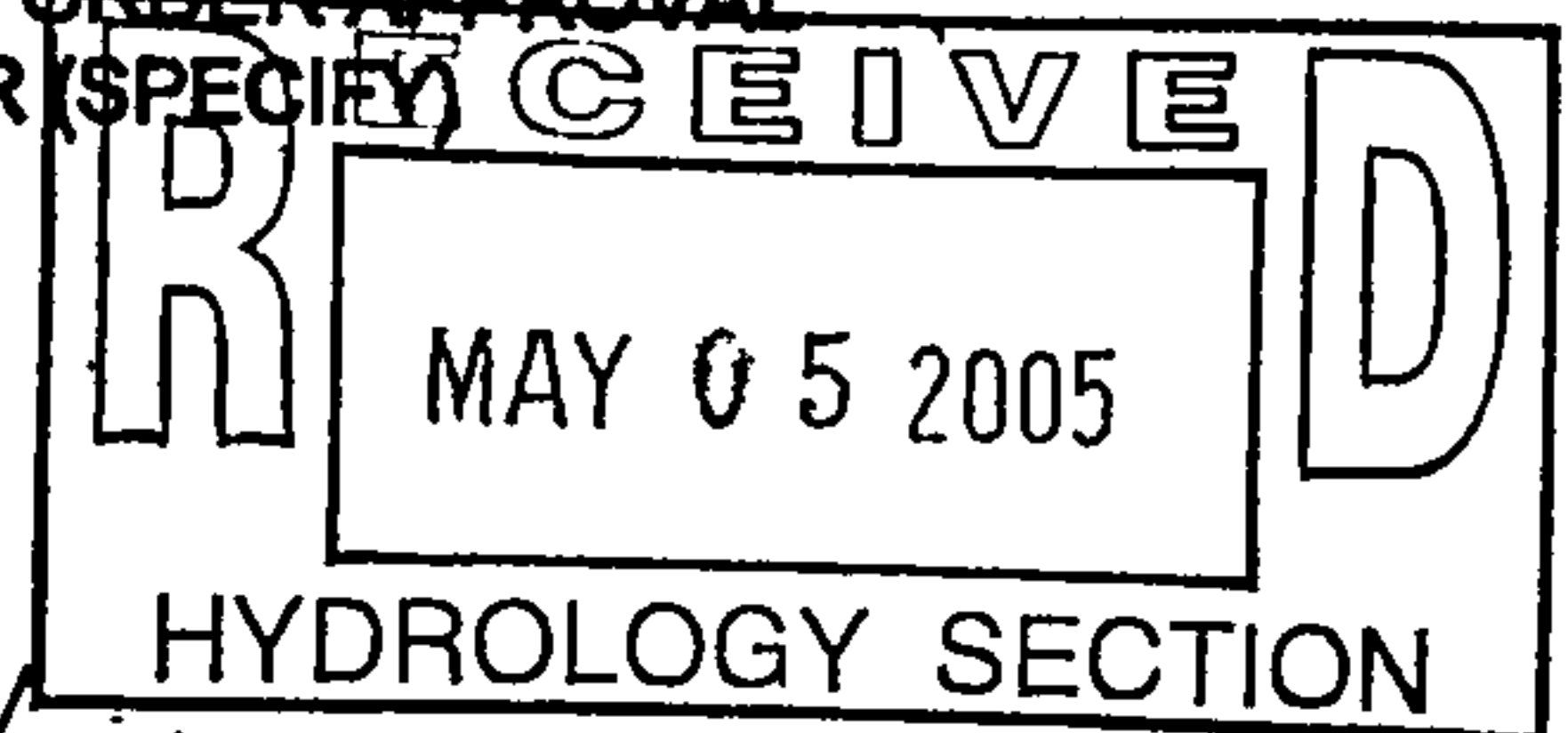
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SIA / FINANCIAL GUARANTEE RELEASE
- ☐ PRELIMINARY PLAT APPROVAL
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- ☒ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
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- ☐ FINAL PLAT APPROVAL
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- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☐ NO
- ☐ COPY PROVIDED

DATE SUBMITTED: May 5, 2005 BY: Eric Haskins



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

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

5' aisle for HC spaces

15' min radius

- need incline - thru

DANIEL W. COOK, CHAIRMAN

PAT D. HIGDON, VICE-CHAIRMAN

RONALD BROWN, SECRETARY-TREASURER

GENEVA MEEKER, ASST. SECRETARY-TREASURER

MICHAEL MURPHY, DIRECTOR

LARRY A. BLAIR

EXECUTIVE ENGINEER



Albuquerque
Metropolitan
Arroyo
Flood
Control
Authority

2600 PROSPECT N.E. - ALBUQUERQUE, N.M. 87107

TELEPHONE (505) 884-2215

H16-D106

September 13, 1994

Mr. Bernie Montoya
Hydrology Division
Public Works Department
P.O. Box 1293
Albuquerque, New Mexico 87103

FAX 768-3629

Re: Lota Burger at Carlisle and Embudo Channel

Dear Mr. Montoya:

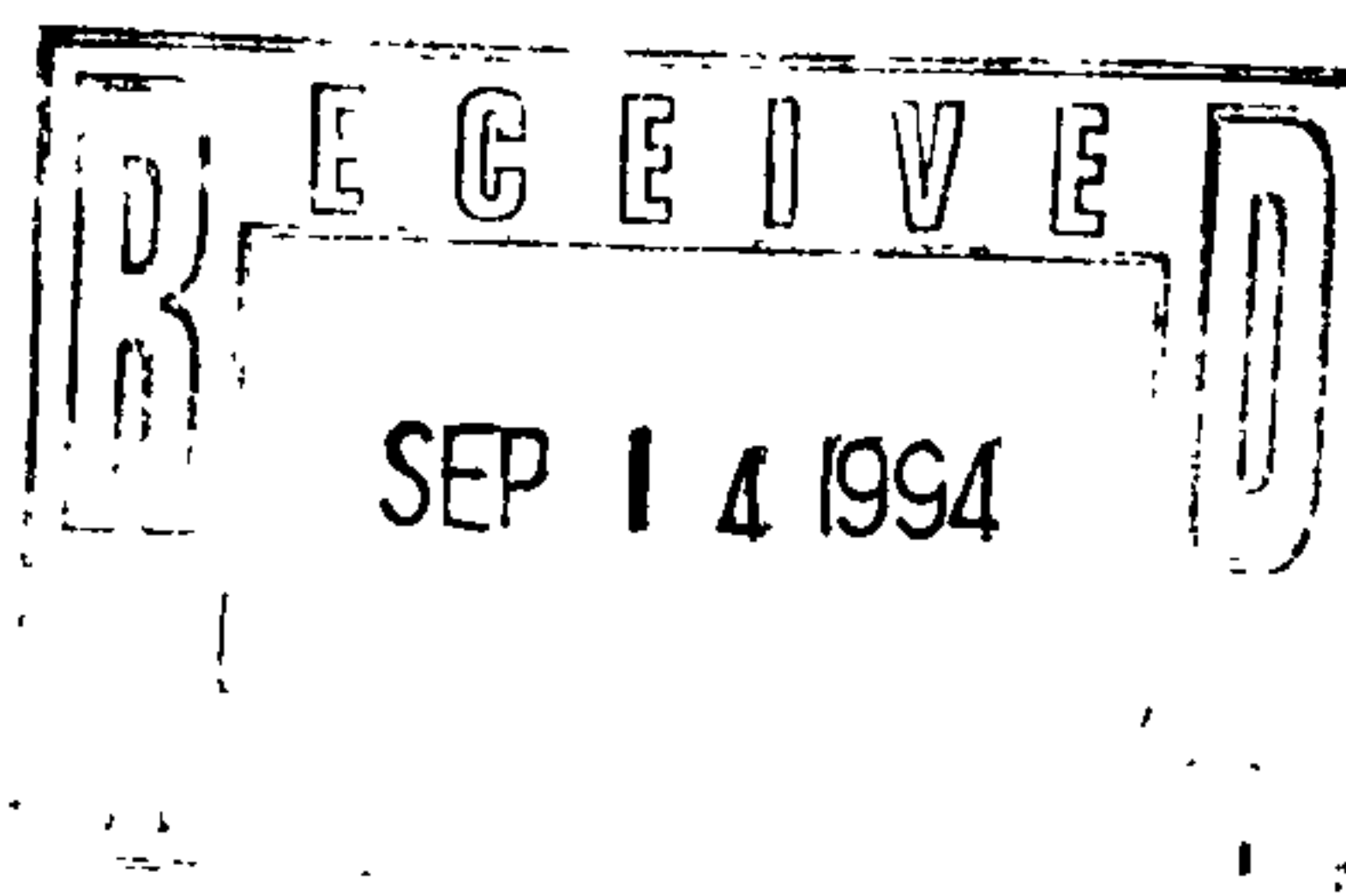
This is to confirm that AMAFCA has inspected and accepted the grading and rundown within the AMAFCA Embudo Channel right-of-way adjacent to the referenced development.

Please contact me if you have any questions.

Sincerely
AMAFCA


John Kelly
Field Engineer

cc Dave Boes, Blakes



DRAINAGE INFORMATION SHEET

PROJECT TITLE: Rudy's Backs Restaurant ZONE ATLAS/DRNG. FILE #: H-16-D-106
 DRB #: 94-4 EPC #: _____ WORK ORDER #: _____
 LEGAL DESCRIPTION: TRACT A-1-A, A-1-B, & A-2-A, Bk 24 & 26 Timoteo Chavez Addition
 CITY ADDRESS: _____
 ENGINEERING FIRM: Ryals Eng CONTACT: B.B. Ryals
 ADDRESS: 4929 Idlewild SE PHONE: 265-8267
 OWNER: Celco Investments CONTACT: BLAKE CHANSON
 ADDRESS: 3205 Richmond PHONE: 884-0844
 ARCHITECT: _____ CONTACT: _____
 ADDRESS: _____ PHONE: _____
 SURVEYOR: _____ CONTACT: _____
 ADDRESS: _____ PHONE: _____
 CONTRACTOR: _____ CONTACT: _____
 ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
☒ DRAINAGE PLAN RE:
 ____ CONCEPTUAL GRADING & DRAINAGE PLAN
☒ GRADING PLAN RE:
 ____ EROSION CONTROL PLAN
 ____ ENGINEER'S CERTIFICATION
 ____ OTHER _____

CHECK TYPE OF APPROVAL SOUGHT:

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

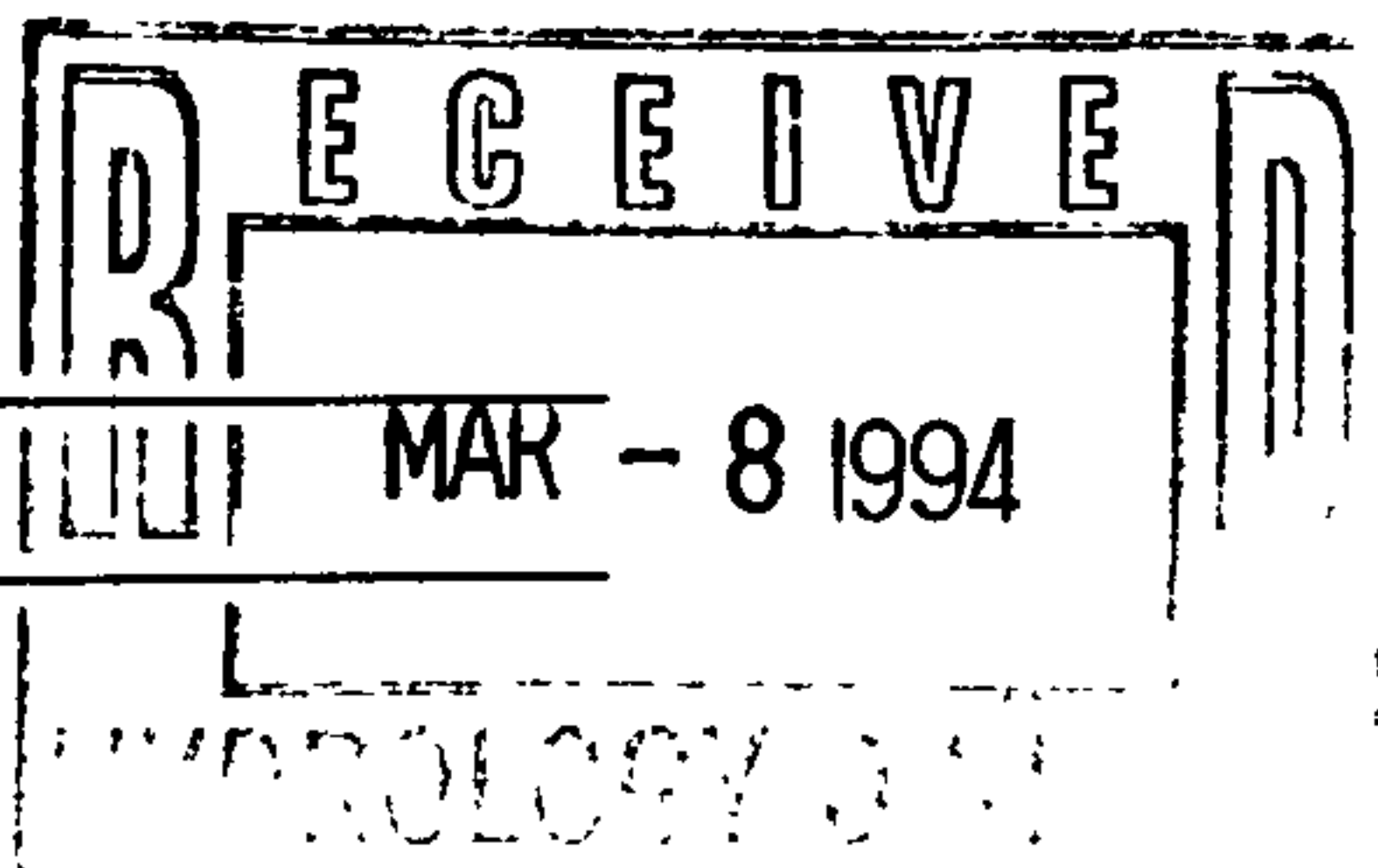
PRE-DESIGN MEETING:

____ YES
 ____ NO
 ____ COPY PROVIDED

DATE SUBMITTED:

BY:

3-1-94
B Ryals





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 15, 1994

Mr. Bob Ryals
Ryals Engr. & Constr. Serv.
4929 Idlewilde SE
Albuquerque, NM 87108

RE: FINAL PLAT, BUILDING PERMIT & ROUGH GRADING APPROVAL FOR RUDY'S COUNTRY
STORE AND BLAKES LOTABURGER (H16/D106) ENGINEER'S STAMP DATED 2/28/94

Dear Mr. Ryals,

Based upon your resubmittal, received by this office on 3/8/94, the referenced project is approved for Final Plat, Building Permit and Rough Grading. Please be advised that prior to Certificate of Occupancy release, we will need Engineer's Certification per the Certification Checklist.

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

Cordially,

Scott Davis
PWD, Hydrology Division

c: Andrew Garcia
File



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 22, 1994

Mr. Bob Ryals
Ryals Engr. & Constr. Serv.
4929 Idlewilde SE
Albuquerque, NM 87108

RE: FINAL PLAT, BUILDING PERMIT & ROUGH GRADING APPROVAL FOR RUDY'S COUNTRY
STORE AND BLAKES LOTABURGER (H16/D106) ENGINEER'S STAMP DATED 2/7/94

Dear Mr. Ryals,

Having reviewed your 2/9/94 submittal for the referenced project, several concerns will have to be addressed prior to authorizing Hydrology Division approval. My concerns include:

1. You identify storm flows being routed to Prospect Avenue from your site. Prior to reaching the rundown west of the site the flows will cross the entrance into Motel 6. Could you please supply grade elevations along Prospect in this area so that it can be determined whether the flows will safely bypass the Motel 6 entrance.
2. Since you are proposing work to be done within AMAFCA right-of-way, it will be necessary to obtain their signature of approval prior to obtaining City approval. Please provide this on the resubmittal plan.

If you have any questions concerning my comments or if I can be of assistance, feel free to call me at 768-3622.

Sincerely,

Scott Davis
PWD, Hydrology Division

(WP+8328)
c: File

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Rudys Country Store & Block Lotaburger ZONE ATLAS/DRNG. FILE #: 2-A-16-10106
 DRB #: 94-4V-945 EPC #: _____ WORK ORDER #: _____
 LEGAL DESCRIPTION: Tract A-1-A, A-1-B & A-2-A, Blk 24 & 25 Timoteo
 CITY ADDRESS: Chauvin addy
 ENGINEERING FIRM: Ryals Engineering CONTACT: Bob Ryals
 ADDRESS: 5301 Central PHONE: 256-4701
 OWNER: Bob Ryals CONTACT: _____
 ADDRESS: _____ PHONE: _____
 ARCHITECT: KSA CONTACT: _____
 ADDRESS: _____ PHONE: _____
 SURVEYOR: _____ CONTACT: _____
 ADDRESS: _____ PHONE: _____
 CONTRACTOR: _____ CONTACT: _____
 ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

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

PRE-DESIGN MEETING:

- ☐ YES
☐ NO
☐ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

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

DATE SUBMITTED:

BY:

3/29/95Ryals Engineering

RECEIVE

MAR 29 '95

CITY OF


DRAINAGE REPORT
RUDY'S COUNTRY STORE AND BLAKES LOTABURGER
SOUTHWEST CORNER CARLISLE AND PROSPECT

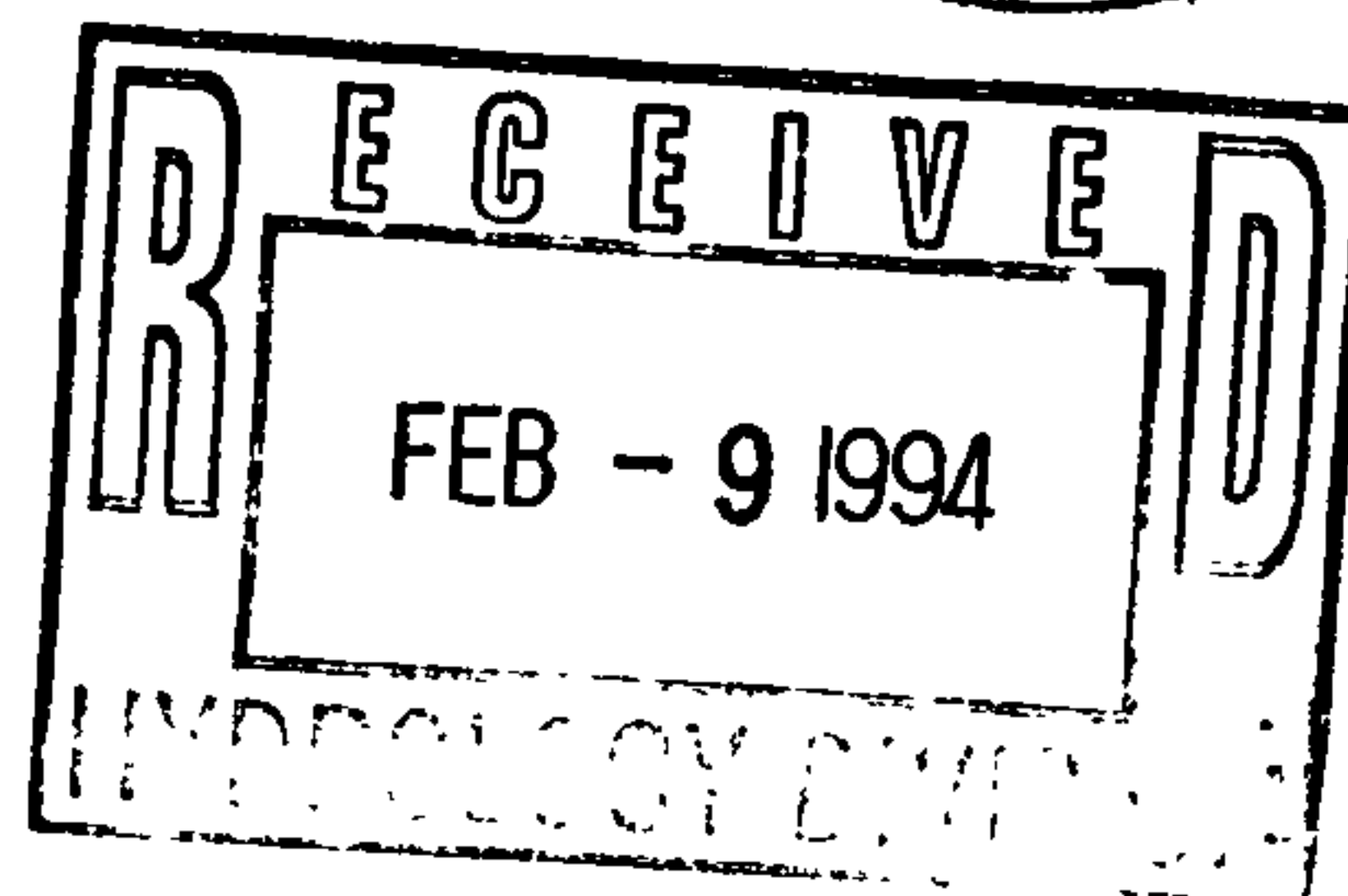
LEGAL DESCRIPTION: TRACT A-1-A, A-1-B & A-2-A,
BLOCK 24 & 25 TIMOTEO CHAVEZ ADDITION
ZONE MAP # Z-H-16
DRB-94-4, V-94-5
FLOOD ZONE: NA
NUMBER OF LOTS EXISTING = 2
NUMBER PROPOSED = 3
ZONE TRACT A-1-A & A-1-B - ZONE C-2
ZONE TRACT A-2-A - ZONE C-3
TOTAL AREA = 2.164 ACRES

PREPARED FOR: CELCO INVESTMENTS, OWNER
3205 RICHMOND N.E.
ALBUQUERQUE, NEW MEXICO

PREPARED BY: RYALS ENGINEERING AND CONSTRUCTION SERVICES
4929 IDLEWILDE SE
ALBUQUERQUE, NEW MEXICO

FEBRUARY 1994


Robert B. Ryals, P.E.



MASTER DRAINAGE PLAN
RUDY'S COUNTRY STORE & BLAKE'S LOTABURGER
SOUTHWEST CORNER CARLISLE/PROSPECT
HYDROLOGY CALCULATIONS

EXISTING CONDITIONS: AS SHOWN ON FIG 1 THE SITE IS LOCATED WITHIN THE SOUTHWEST QUADRANT OF PROSPECT AND CARLISLE JUST NORTH OF THE NORTH DIVERSION CHANNEL. THE [SITE CONTAINS THE VACATED RIGHTS OF WAY OF AMHERST DRIVE (V-94-5 AND V-)]. [THESE VACATIONS RETAINED EASEMENTS FOR PUBLIC DRAINAGE OVER THE 60 ' VACATED ROW. 20 ' WAS ALSO RETAINED FOR EMERGENCY ACCESS TO THE DIVERSION CHANNEL. ADDITIONALLY THERE EXISTS A 25' AMAFCA DRAINAGE EASEMENT ACROSS THE SOUTHERN BOUNDARY OF THE SITE AND ADJACENT TO THE AMAFCA DIVERSION CHANNEL ROW.]

THE SITE WAS [PREVIOUSLY THE LOCATION OF A NEW MEXICO STATE HIGHWAY DEPARTMENT OFFICE COMPLEX WHICH HAS RECENTLY BEEN DEMOLISHED. AS SHOWN IN FIG. 2 THE SITE PRESENTLY AND APARENTLY HISTORICALLY HAS DRAINED TO THE SOUTHWEST CORNER OF THE SITE ONTO THE ADJACENT MOTEL 6 PARKING LOT (LOT 3, LAND OF RAY SHOLLENBARGER), THE SOUTHERN 25' OF WHICH IS AN AMAFCA DRAINAGE EASEMENT. (THE DRAINAGE PLAN APPROVED FOR THE MOTEL 6 INCLUDED PROVISIONS FOR CONVEYANCE OF RUNOFF FROM THIS SITE, INCLUDING AN INLET SRUCTURE TO THE DIVERSION CHANNEL [AND A PAVED SWALE THROUGH THE CENTER OF THE REAR PARKING LOT AS SHOWN]. IT SHOULD BE NOTED THAT THE APPARENT FLOW LINE OF THIS SWALE IS ONLY 1 FOOT FROM THE NORTHERN EDGE OF THE AMAFCA 25' EASEMENT.]

[TO THE WEST OF MOTEL 6 IS A 20 FOOT TUFF TURE (OPEN GRID CMU WITH GRASS IN THE OPENINGS) CHANNEL WHICH SERVES AS AN OUTFALL FOR PROSPECT DRAINAGE] THIS FACILITY WAS INSTALLED PER THE APPROVED DRAINAGE PLAN FOR THE RESIDENCE INN. THE [APPROVED REPORT INTENDED TO DRAIN 4.44 ACRES AT THE PROSPECT INLET TO THIS CHANNEL AND PICK UP ANOTHER 5.23 ACRES OF RUNOFF VIA THE MOTEL 6 PARKING LOT SWALE. INCLUDED IN THE 5.23 ACRES WAS THE 2.164 ACRES OF THE SUBJECT SITE]

[PROPOSED IMROVEMENTS] PROPOSED IMPROVEMNTS TO THE SITE INCLUDE THE CONSTRUCTION OF A BLAKES LOTABURGER ON TRACT A-1-B, RUDY'S COUNTRY STORE ON TRACT A-1-A AND A PARKING LOT FOR RUDY'S ON TRACT A-2-A. [THE PROPOSED GRADING PLAN PROVIDES FOR DRAINAGE OF RUDY'S STORE AND PARKING LOT AND APPROXIMATELY 50% OF BLAKE'S PAVED AREA TO PROSPECT] THE BASIS OF THIS CONCEPT WAS [TO MINIMIZE FLOW TO THE MOTEL 6 PARKING LOT] INCLUDED WITH THE IMPROVEMENTS IS THE [REGRADING OF AMAFCA'S 20' EMERGENCY ACCESS ROAD TO THE NORTH DIVERSION CHANNEL] IT IS INTENDED TO LEAVE THIS ROAD WITH A COMPACTED DIRT SURFACE. FILL SLOPES ADJACENT TO THE ROAD ARE TO BE STABILIZED WITH NATIVE GRASSES PER AMAFCA SPECIFICATIONS.

THE DRAINAGE PLAN FOR MOTEL 6, WHICH INCLUDED THE INLET TO THE AMAFCA CHANNEL, USED CONSERVATIVE HYDROLOGY FOR ITS TIME. THE FLOW FROM THE PRESENT PROJECT SITE CALCULATED PER THAT PLAN (12.7 CFS)

IS HIGHER THAN THE TOTAL (8.74) CALCULATED PER CURRENT DPM HYDROLOGY. A REVIEW OF THE HYDRAULIC CALCULATIONS FOR THE TUFF-TURF CHANNEL FROM PROSPECT TO THE AMAFCA CHANNEL (RESIDENCE INN DRAINAGE PLAN) SHOWS THAT THE CHANNEL HAS ADEQUATE CAPACITY TO ACCEPT THE ADDITIONAL FLOWS FROM PROSPECT

HYDROLOGY METHOD: DPM FOR SMALL WATER SHEDS

REFERENCE: ALBUQUERQUE DPM SECTION 22.2 (AUGUST, 1991)

5. CONCLUSION: THE PROPOSED GRADING PLAN PROVIDES FOR THE FREE DISCHARGE OF SURFACE DRAINAGE TO EXISTING OUTFALL STRUCTURES WITH ADEQUATE CAPACITY. SEE SUMMARY OF HYDROLOGIC AND HYDRAULIC CALCULATIONS ATTACHED IN EXHIBIT "A".



FIG #1

H-16-Z

Map of the area shown in the map above.

Map of the area shown in the map above.

Map of the area shown in the map above.

Map of the area shown in the map above.

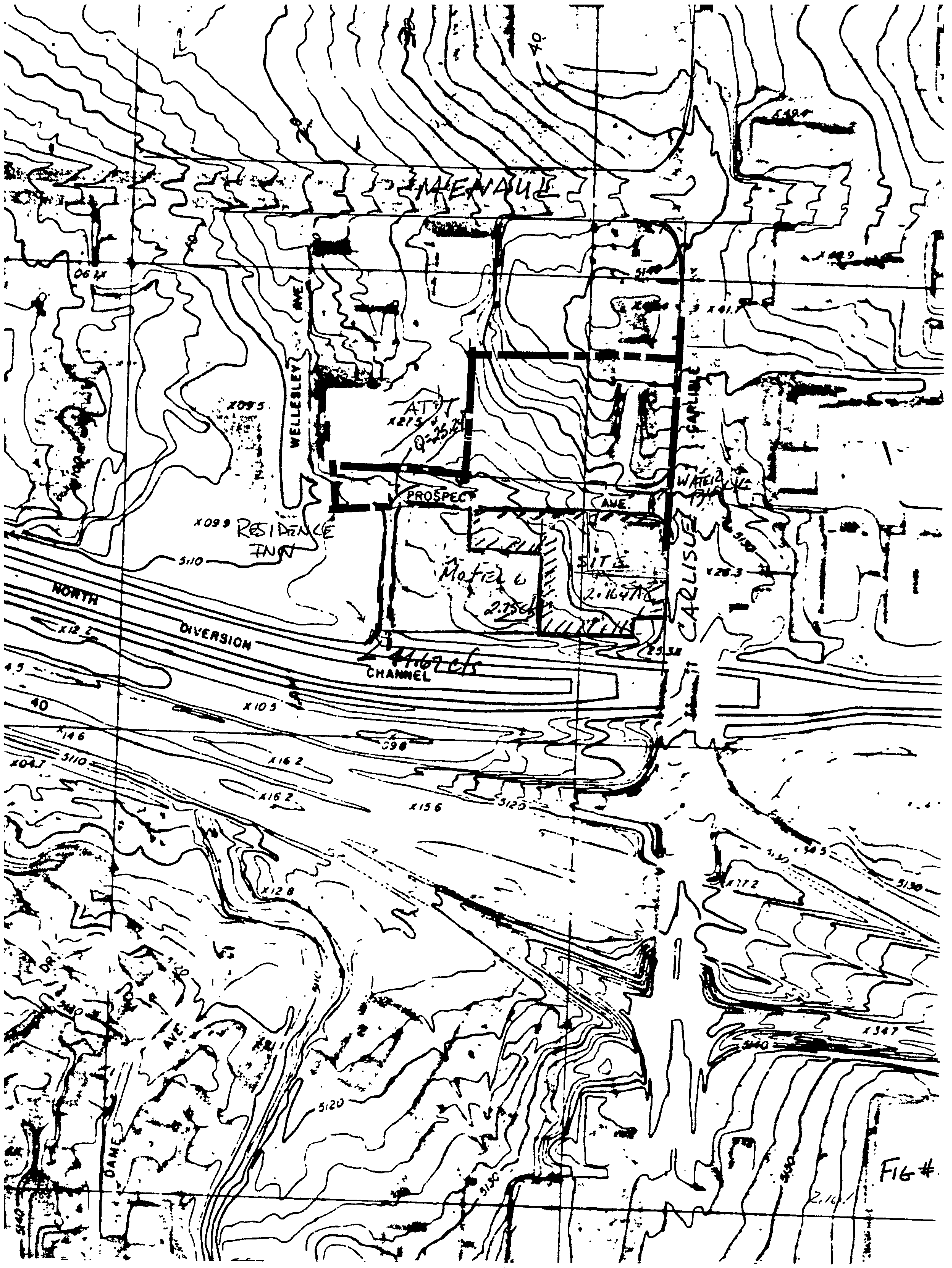
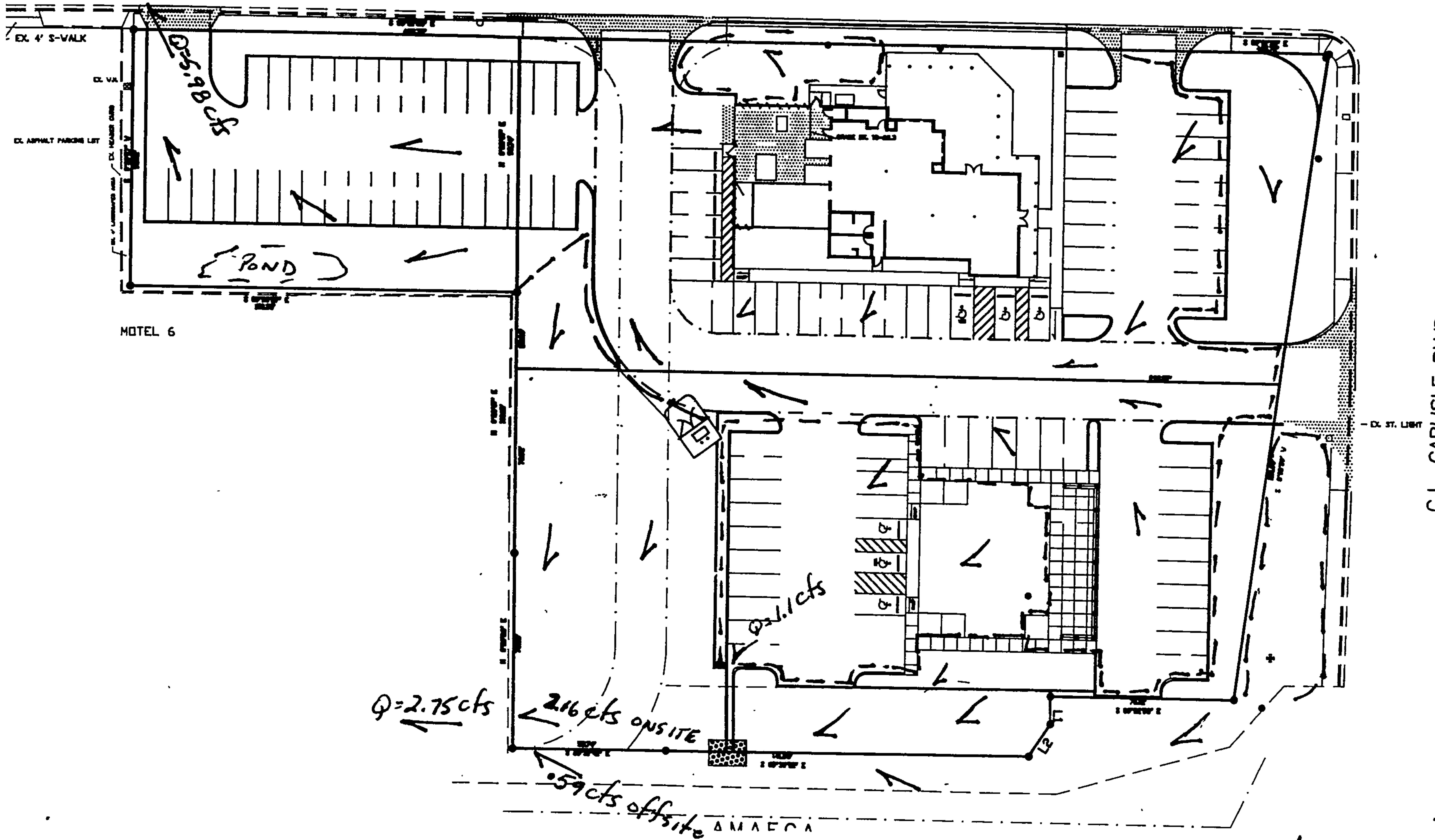


FIG #

C.L. PROSPECT AV. N.E.
(60' ROW)



C.L. CARLISLE BLVD. N.E.

BASIN MAP

FILE=DPMHYD40.WQ1

ALBUQUERQUE, NM, DPM (1/93) CRITERIA - SIMPLE PROCEDURE FOR <= 40 ACRES

PX100-6 = PRECIPITATION EXCESS FROM 100-YEAR 6-HOUR STORM

VOL10D = VOLUME OF RUNOFF FROM 100-YEAR 10-DAY STORM

TRTMT CLASS A=UNDISTURBED, B=LAWNS, C=UNPAVED ROADS, D=ROOFS, PAVEMENT: SEE DPM P 22.5-5

***** PROJECT INFO *****

BLAKE'S/RUDY'S PROSPECT & CARLISLE

ONSITE FLOW

RAIN ZONE 2 SEE DPM P 22.2-2

100-YEAR PRECIPITATION (P) DEPTHS, INCHES

1 HR	6 HR	24 HR	4 DAY	10 DAY
2.01	2.35	2.75	3.30	3.95

02/01/94 10:08 AM EXISTING OFFSITE BASINS @ NORTH DIVERSION CHANNEL INLET

TRTMT CLASS	AREA SQUARE FEET	AREA ACRES	PX100-6 IN/AC	QP100-6 CFS/AC	QP100-6 CFS	VOL6HR AC-FT	VOL1D AC-FT	VOL4D AC-FT	VOL10D AC-FT	TRTMT PERCENT
A	0.00	0.0000	0.53	1.56	0.000	0.000	0.000	0.000	0.000	0.00
B	67300.20	1.5450	0.78	2.28	3.523	0.100	0.100	0.100	0.100	15.00
C	0.00	0.0000	1.13	3.14	0.000	0.000	0.000	0.000	0.000	0.00
D	381367.80	8.7550	2.12	4.70	41.149	1.547	1.839	2.240	2.714	85.00
TOTAL	448668.00	10.3000			44.671	1.647	1.939	2.340	2.814	100.00
					CU FT	71749	84462	101941	122599	

02/01/94 10:08 AM TUFF TURF INLET @ PROSPECT

TRTMT CLASS	AREA SQUARE FEET	AREA ACRES	PX100-6 IN/AC	QP100-6 CFS/AC	QP100-6 CFS	VOL6HR AC-FT	VOL1D AC-FT	VOL4D AC-FT	VOL10D AC-FT	TRTMT PERCENT
A	0.00	0.0000	0.53	1.56	0.000	0.000	0.000	0.000	0.000	0.00
B	38027.88	0.8730	0.78	2.28	1.990	0.057	0.057	0.057	0.057	15.00
C	0.00	0.0000	1.13	3.14	0.000	0.000	0.000	0.000	0.000	0.00
D	215491.32	4.9470	2.12	4.70	23.251	0.874	1.039	1.266	1.534	85.00
TOTAL	253519.20	5.8200			25.241	0.931	1.096	1.322	1.590	100.00
					CU FT	40542	47725	57602	69274	

02/01/94 10:08 AM ONSITE PROPOSED TO PROSPECT

TRTMT CLASS	AREA SQUARE FEET	AREA ACRES	PX100-6 IN/AC	QP100-6 CFS/AC	QP100-6 CFS	VOL6HR AC-FT	VOL1D AC-FT	VOL4D AC-FT	VOL10D AC-FT	TRTMT PERCENT
A	286.00	0.0066	0.53	1.56	0.010	0.000	0.000	0.000	0.000	0.47
B	9978.00	0.2291	0.78	2.28	0.522	0.015	0.015	0.015	0.015	16.43
C	0.00	0.0000	1.13	3.14	0.000	0.000	0.000	0.000	0.000	0.00
D	50474.00	1.1587	2.12	4.70	5.446	0.205	0.243	0.296	0.359	83.10
TOTAL	60738.00	1.3944			5.979	0.220	0.259	0.312	0.374	100.00
					CU FT	9578	11261	13574	16308	

02/01/94 10:08 AM ONSITE PROPOSED TO MOTEL 6 PARKING LOT (SW CORNER BLAKE'S)

TRTMT CLASS	AREA SQUARE FEET	AREA ACRES	PX100-6 IN/AC	QP100-6 CFS/AC	QP100-6 CFS	VOL6HR AC-FT	VOL1D AC-FT	VOL4D AC-FT	VOL10D AC-FT	TRTMT PERCENT
A	16221.00	0.3724	0.53	1.56	0.581	0.016	0.016	0.016	0.016	47.16
B	4916.00	0.1129	0.78	2.28	0.257	0.007	0.007	0.007	0.007	14.29
C	3065.00	0.0704	1.13	3.14	0.221	0.007	0.007	0.007	0.007	8.91
D	10195.00	0.2340	2.12	4.70	1.100	0.041	0.049	0.060	0.073	29.64
TOTAL	34397.00	0.7896			2.159 CU FT	0.072 3126	0.080 3466	0.090 3933	0.103 4485	100.00

02/01/94 10:08 AM OFFSITE PROPOSED TO MOTEL 6 PARKING LOT (SW CORNER BLAKE'S)

TRTMT CLASS	AREA SQUARE FEET	AREA ACRES	PX100-6 IN/AC	QP100-6 CFS/AC	QP100-6 CFS	VOL6HR AC-FT	VOL1D AC-FT	VOL4D AC-FT	VOL10D AC-FT	TRTMT PERCENT
A	5902.00	0.1355	0.53	1.56	0.211	0.006	0.006	0.006	0.006	49.69
B	2896.00	0.0665	0.78	2.28	0.152	0.004	0.004	0.004	0.004	24.38
C	3080.00	0.0707	1.13	3.14	0.222	0.007	0.007	0.007	0.007	25.93
D	0.00	0.0000	2.12	4.70	0.000	0.000	0.000	0.000	0.000	0.00
TOTAL	11878.00	0.2727			0.585 CU FT	0.017 739	0.017 739	0.017 739	0.017 739	100.00

BOX CULVERT ANALYSIS
COMPUTATION OF CULVERT PERFORMANCE CURVE

February 8, 1994
2 FOOT CONCRETE RUN DOWN

PROGRAM INPUT DATA:

DESCRIPTION	VALUE
Culvert Span (Width of Opening) (feet).....	2.00
Culvert Rise (Height of Opening) (feet).....	0.50
FHWA Chart Number (8,9,10,11,12 or 13).....	10
Scale Number on Chart (Type of Culvert Entrance).....	1
Manning's Roughness Coefficient (n-value).....	0.0150
Entrance Loss Coefficient of Culvert Opening.....	0.50
Culvert Length (feet).....	25.0
Culvert Slope (feet per foot).....	0.3300

PROGRAM RESULTS:

Flow Rate (cfs)	Tailwater Depth (ft)	Headwater (ft) Inlet Control	Headwater (ft) Outlet Control	Normal Depth (ft)	Critical Depth (ft)	Depth at Outlet (ft)	Outlet Velocity (fps)
0.5	0.20	0.20	-7.93	0.04	0.12	0.04	6.44
0.8	0.20	0.27	-7.89	0.05	0.16	0.05	7.54
1.0	0.20	0.32	-7.86	0.06	0.20	0.06	8.42
1.1	0.20	0.35	-7.84	0.06	0.21	0.06	8.74
1.5	0.20	0.43	-7.77	0.08	0.26	0.08	9.83
2.0	0.20	0.52	-7.66	0.09	0.31	0.09	10.97

BOX CULVERT ANALYSIS COMPUTER PROGRAM Version 1.6 Copyright (c) 1986
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(713) 895-8322. All Rights Reserved.

TRAPEZOIDAL CHANNEL ANALYSIS
NORMAL DEPTH COMPUTATION

February 8, 1994
EXISTING TUFF TURF CHANNEL
@ RESIDENCE INN
PROSPECT OUTFALL

PROGRAM INPUT DATA:

DESCRIPTION	VALUE
Flow Rate (cubic feet per second).....	25.2
Channel Bottom Slope (feet per foot).....	0.0048
Manning's Roughness Coefficient (n-value).....	0.0300
Channel Side Slope - Left Side (horizontal/vertical)....	11.33
Channel Side Slope - Right Side (horizontal/vertical)...	0.01
Channel Bottom Width (feet).....	0.0

PROGRAM RESULTS:

DESCRIPTION	VALUE
Normal Depth (feet).....	1.34
Flow Velocity (feet per second).....	2.48
Froude Number (Flow is Sub-Critical).....	0.533
Velocity Head (feet).....	0.10
Energy Head (feet).....	1.44
Cross-Sectional Area of Flow (square feet).....	10.19
Top Width of Flow (feet).....	15.21

TRAPEZOIDAL CHANNEL ANALYSIS COMPUTER PROGRAM, Version 1.3 (c) 1986
Dodson & Associates, Inc., 7015 W. Tidwell, #107, Houston, TX 77092
(713) 895-8322. A manual with equations & flow chart is available.

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Rydys' BLAKES RESTAURANT ZONE ATLAS/DRNG. FILE #: H-16-1106
DRB #: _____ EPC #: _____ WORK ORDER #: _____
LEGAL DESCRIPTION: TRACT A-1A, A-1-B, A-2A, BLK 24 & 26 Timoteo Chavez Addition
CITY ADDRESS: 2301 CARLISLE
ENGINEERING FIRM: Ryals Engineering CONTACT: Bob Ryals
ADDRESS: 4929 Idlewilde SE PHONE: 265-8267
OWNER: G BLAKE CHANSLOR CONTACT: _____
ADDRESS: 5201 Richmond PHONE: 884-0844
ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

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

PRE-DESIGN MEETING:

- ☐ YES
☐ NO
☐ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

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

DATE SUBMITTED:

9-19-94

BY:

Bob Ryals

SEP 14 1994