

# CITY OF ALBUQUERQUE

*Planning Department*  
Alan Varela, Director



*Mayor Timothy M. Keller*

December 16, 2024

David Soule, P.E.  
Rio Grande Engineering  
P.O. Box 93924  
Albuquerque, NM 87199

**RE: Burger King Drive Through Improvements  
4760 McMahon Blvd NW  
Permanent C.O. – Accepted  
Engineer's Certification Date: 12/10/24  
Engineer's Stamp Date: 6/24/24  
Hydrology File: A12D001B**

Dear Mr. Soule:

PO Box 1293

Based on the Certification received 12/11/2024 and the site visit on 12/13/2024, this letter serves as a "green tag" from Hydrology Section for a Permanent Certificate of Occupancy to be issued by the Building and Safety Division.

Albuquerque

If you have any questions, please contact me at 505-924-3314 or [amontoya@cabq.gov](mailto:amontoya@cabq.gov).

NM 87103

Sincerely,

[www.cabq.gov](http://www.cabq.gov)

Anthony Montoya, Jr., P.E.  
Senior Engineer, Hydrology  
Planning Department, Development Review Services





Weighted E Method

Existing Developed Basins										100-Year, 6-hr			
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)			
EXISTING PROPOSED COMPARISON	28895	0.666	0%	0	10.0%	0.067	12.0%	0.080	78%	0.519	1.934	0.107	2.51
	28895	0.666	0%	0	9.0%	0.060	10.0%	0.067	81%	0.539	1.975	0.110	2.54
												0.002	

Equations:

Weighted E = Ea\*Aa + Eb\*Ab + Ec\*Ac + Ed\*Ad / (Total Area)

Volume = Weighted D \* Total Area

Flow = Qa \* Aa + Qb \* Ab + Qc \* Ac + Qd \* Ad

Where for 100-year, 6-hour storm (zone 1):  
Ea= 0.55  
Eb= 0.73  
Ec= 0.95  
Ed= 2.24  
Qa= 1.54  
Qb= 2.16  
Qc= 2.87  
Qd= 4.12

EXISTING DISCHARGE 4673.51  
PROPOSED DISCHARGE 4772.34  
INCREASE 98.82  
WATER QUALITY VOLUME 26" PER SF  
4533 SF OF REDEVELOPED IMPERVIOUS  
98 CUBIC FEET REQUIRED  
266 CUBIC FEET PROVIDED  
PONDING REQUIRED WATER QUALITY STORMWATER TOTAL 98 CF  
PONDING PROVIDED 266 CF

DRAINAGE NARRATIVE  
THIS SITE IS A REDEVELOPMENT OF AN EXISTING SITE. THE OVERALL DEVELOPMENT WAS CONSTRUCTED PER A120001B. THE SITE IS ALLOWED FREE DISCHARGE THE HISTORICAL DISCHARGE OF 2.51 CFS DRAINS THE ADJACENT PROPERTIES ULTIMATLY TO THE STORM DRAIN SYSTEM IN GOLF COURSE DRAINING TO THE CALABACITAS ARROYO THE SITE AS PROPOSED WILL DISCHARGE TO THE HISTORICAL OUTFALL AT THE INCREASED RATE OF 2.54 CFS. THE INCREASE IN VOLUME HAS BEEN RETAINED ONSITE. THE REDEVELOPMENT FIRST FLUSH VOLUME IS RETAINED ONSITE. THIS PLAN CONFORMS TO THE DEVELOPED CONDITION ASSUMPTIONS OF THE APPROVED DRAINAGE PLAN AND THE CITY OF ALBUQUERQUE DRAINAGE ORDINANCE.

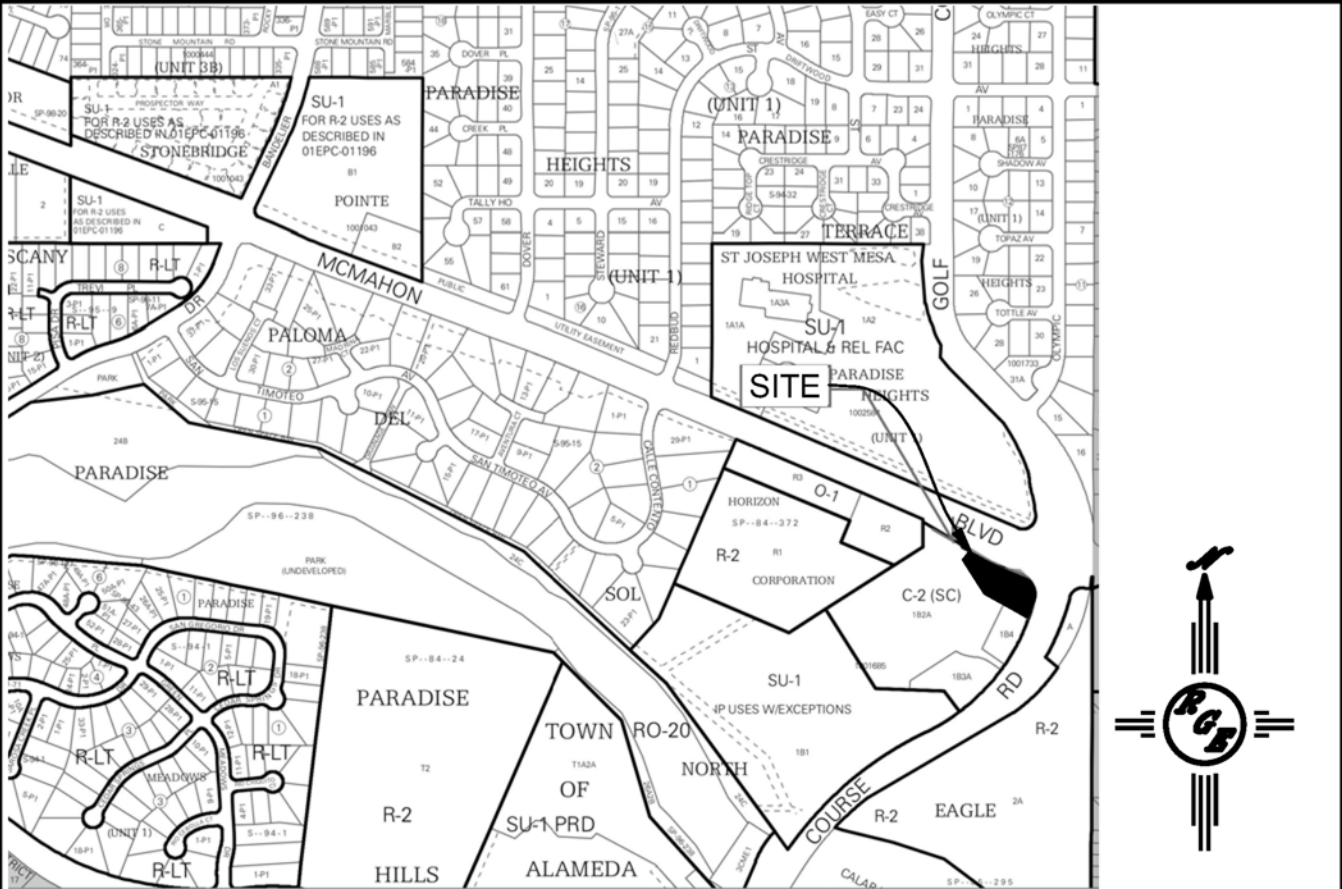
I David Soule, NMPE 14522, of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated 6/24/24. The certification is submitted in support of a request for CERTIFICATE OR OCCUPANCY. The record information presented heron is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project.



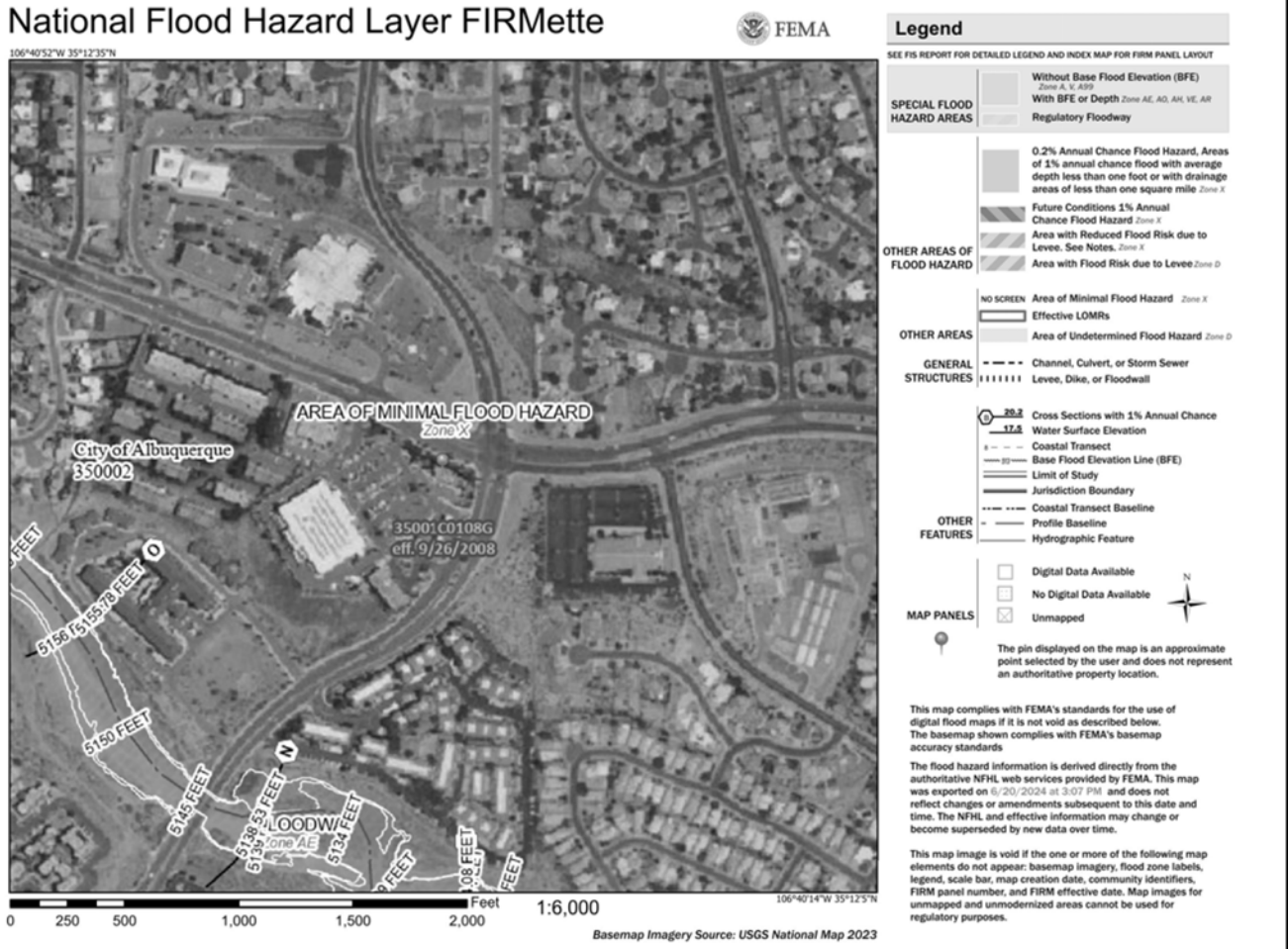
12/10/24

EROSION CONTROL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.



VICINITY MAP:



FIRM MAP:

LEGAL DESCRIPTION:

TRACT 1B-5A, PARADISE NORTH  
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

NOTES:

- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
- ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
- SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
- LONG TERM MAINTAINANCE OF ALL PONDS, SWALES AND OVERFLOWS IS REQUIRED
- A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

LEGEND

- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- PROPOSED CONTOUR
- PROPOSED INDEX CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- BOUNDARY
- ADJACENT BOUNDARY
- EXISTING CURB AND GUTTER
- LIMIT OF NEW WORK  
SAWCUT EXISTING  
ASPHALT/CONCRETE  
BEGIN NEW MATCH EXISTING

DateDec 4, 2024

CrewMJM,TSG

DrafterDKS

GPSBaby 12/24

JNn0966-01-705

Community Sciences Corporation

Land Surveying

(505) 897.0000

Asbuilt Legend

✕ elev

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Asbuilt Elevation

Data strikeout

Not constructed

C1  
R=(1212.64')  
L=(227.24')  
C=(226.91')  
CB=(N65°48'49"W)  
Δ=(10°44'13")

C2  
R=(89.09')  
L=(93.29')  
C=(89.09')  
CB=(N31°38'56"W)  
Δ=(60°00'00")

C3  
R=(740.88')  
L=(86.24')  
C=(86.19')  
CB=(N14°53'54"E)  
Δ=(06°40'10")

CAUTION:

EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

|                                                                        |                                                             |                 |
|------------------------------------------------------------------------|-------------------------------------------------------------|-----------------|
| ENGINEER'S SEAL                                                        | TRACT 1B-5A, PARADISE NORTH<br>4760 McMAHON BLVD N.W.       | DRAWN BY<br>DEM |
| DAVID SOULE<br>NEW MEXICO<br>REGISTERED PROFESSIONAL ENGINEER<br>14522 | GRADING AND DRAINAGE PLAN                                   | DATE<br>6-22-24 |
| 6/24/24                                                                | <br>PO BOX 93824<br>ALBUQUERQUE, NM 87199<br>(505) 321-8089 | SHEET #<br>C1   |
| DAVID SOULE<br>P.E. #14522                                             |                                                             | JOB #           |