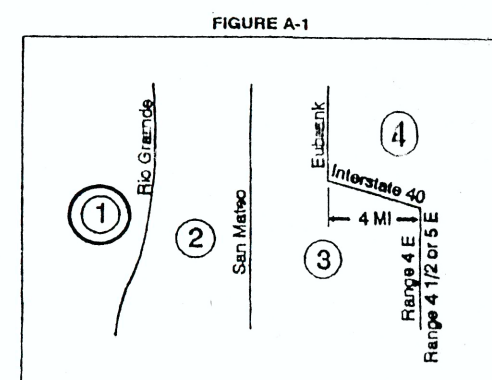


Legal Description:

Tract "A", WESTGATE HEIGHTS, to the city of Albuquerque, Bernalillo County, New Mexico, (Zone Map "M-10-Z").

NOTE: Reference is hereby made to the approved Grading and Drainage Plan for Santuario de San Martin de Porres Catholic Church, located at 8301 Camino San Martin, WestGate Heights, Albuquerque, New Mexico, that was prepared for the "Site Development Plan for Building Permit", (Project Number 1008137, Application Number: 10DRB-70095), approved by the Environmental Planning Commission, (E.P.C.), dated February 18, 2010.



DRAINAGE CERTIFICATION

I, LEVI J. VALDEZ, NMPE #6893 of the firm LEVI J. VALDEZ & ASSOCIATES, P.C. hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intent of the approved plan dated 12-02-14. The record information cited on the original design document has been obtained by LEVI J. VALDEZ, NMPS #11065, of the firm LEVI J. VALDEZ & ASSOCIATES, P.C. I further certify that I have personally visited the project site on 12-02-14 and have determined by visual inspection that the survey data provided is representative of actual site conditions and is true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Certification of Occupancy, (PERMANENT).

The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

Levi J. Valdez
NMPE

12-02-14
Date

TABLE A-4. LAND TREATMENTS	
Treatment	Land Condition
A	Soil uncompacted by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, groundcover and infiltration capacity. <u>Compland, Unimproved Arroyos.</u>
B	Irrigated lawns, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent or less than 20 percent.
C	Soil uncompacted by human activity. Minimal vegetation. (Unimproved parking, roads, trails, latest vacant lots. Causal or rock on plastic (sheet landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds, and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrubs areas with clay or clay loam soils and other soils of very low permeability as classified by SC28 Hydrologic Soil Group D3.
D	Impervious areas, pavement and roofs.

TABLE A-5. PEAK DISCHARGE (cfs/acre)	
Zone	Treatment
	A B C D
1	1.29 (0.00, 0.24) 2.03 (0.31, 0.76) 2.87 (0.47, 0.49) 4.37 (1.69, 8.89)
2	1.56 (0.00, 0.38) 2.38 (0.08, 0.95) 3.14 (0.60, 1.71) 4.70 (1.86, 3.14)
3	1.87 (0.00, 0.58) 2.60 (0.21, 1.19) 3.45 (0.78, 2.009) 5.02 (2.04, 3.39)
4	2.20 (0.05, 0.87) 2.92 (0.38, 1.45) 3.73 (1.00, 2.36) 5.25 (2.17, 3.57)

Drainage Comments:

As shown on the Vicinity Map hereon, the subject site is located near the Northwest corner of Unser Blvd. S.W. and Gibson Blvd. S.W. in the City of Albuquerque, Bernalillo County, New Mexico, (Zone Atlas Map "M-10-Z").

The subject site 1.) is presently an developed church property, the proposed plan as show hereon is to construct a 30' x 70' administrative building and associated improvements thereon, 2.) does not contribute flows to adjacent properties, 3.) does not accept flows from adjacent properties, 4.) is not located within a designated floodplain, (reference F.E.M.A. Firm Panel 336 of 825), 5.) is to discharge the minimal new developed flows into the existing retention pond sized for the existing church development.

SITE AREA = 1.60 ACRE ZONE: ONE (1)
PRECIPITATION: 360 = 2.20 in.
1440 = 2.66 in.
10day = 3.67 in.

EXCESS PRECIPITATION: PEAK DISCHARGE:
TREATMENT A 0.44 in. 1.29 cfs/ac.
TREATMENT B 0.67 in. 2.03 cfs/ac.
TREATMENT C 0.99 in. 2.87 cfs/ac.
TREATMENT D 1.97 in. 4.37 cfs/ac.

EXISTING CONDITIONS: PROPOSED CONDITIONS:
TREATMENT A AREA 0.00 ac. AREA 0.00 ac.
TREATMENT B AREA 0.00 ac. AREA 0.00 ac.
TREATMENT C AREA 0.17 ac. AREA 0.14 ac.
TREATMENT D AREA 1.43 ac. AREA 1.46 ac.

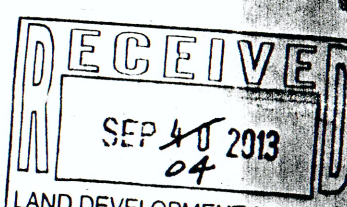
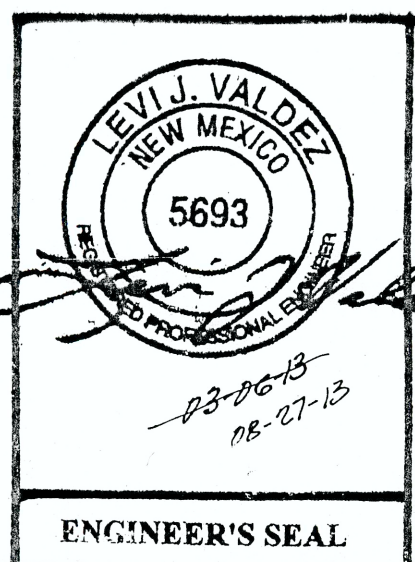
EXISTING EXCESS PRECIPITATION:
Weighted E = (0.44)(0.00)+(0.67)(0.00)+(0.99)(0.17)+(1.97)(1.43)/1.60 = 1.87 in
V100-360 = (1.87)(1.60)/12 = 0.24933 ac-ft = 10,861.0 cf

EXISTING PEAK DISCHARGE:
Q100 = (1.29)(0.00)+(2.03)(0.00)+(2.87)(0.17)+(4.37)(1.43) = 6.74 cfs
PROPOSED EXCESS PRECIPITATION:
Weighted E = (0.44)(0.00)+(0.67)(0.00)+(0.99)(0.14)+(1.97)(1.46)/1.60 = 1.88 in
V100-360 = (1.88)(1.60)/12.0 = 0.25067 ac-ft = 10,919.2 cf
V100-1440 = (0.25)+(1.60)(2.66 - 2.20)/12 = 0.31133 ac-ft = 13,561.5 cf
V100-10day = (0.25)+(1.60)(3.67 - 2.20)/12 = 0.44600 ac-ft = 19,427.8 cf

PROPOSED PEAK DISCHARGE:
Q100 = (1.29)(0.00)+(2.03)(0.00)+(2.87)(0.14)+(4.37)(1.46) = 6.78 cfs
INCREASE: V100-360 = 58.2 cf
Q100 = 0.04 cfs

"ENGINEER'S CERTIFICATION: 12-01-14"

A DRAINAGE PLAN
FOR A PROPOSED 30' X 70' ADMINISTRATIVE BUILDING
FOR
SANTUARIO de SAN MARTIN DE PORRES
CATHOLIC CHURCH
(8301 CAMINO SAN MARTIN, S.W.)
ALBUQUERQUE, NEW MEXICO
DECEMBER, 2012



EROSION CONTROL MEASURES:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT OF STORM RUNOFF DURING CONSTRUCTION. HE SHALL ENSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

- ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SUBJECT SITE AND ENTERING ADJACENT PROPERTIES.
- ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SUBJECT SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREET RIGHT-OF-WAYS.
- THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY AND ALL SEDIMENT FROM PUBLIC STREETS THAT HAS BEEN INKED FROM THE SUBJECT SITE AND DEPOSITED THEREON.

CONSTRUCTION NOTES:

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 260-1990 FOR THE ACTUAL FIELD LOCATION OF THE EXISTING SURFACE OF SUB-SURFACE UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION(S) OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- ALL CONSTRUCTION WITHIN PUBLIC STREET RIGHT-OF-WAY(S) SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE/BERNALILLO COUNTY STANDARDS AND PROCEDURES.

GENERAL NOTES:

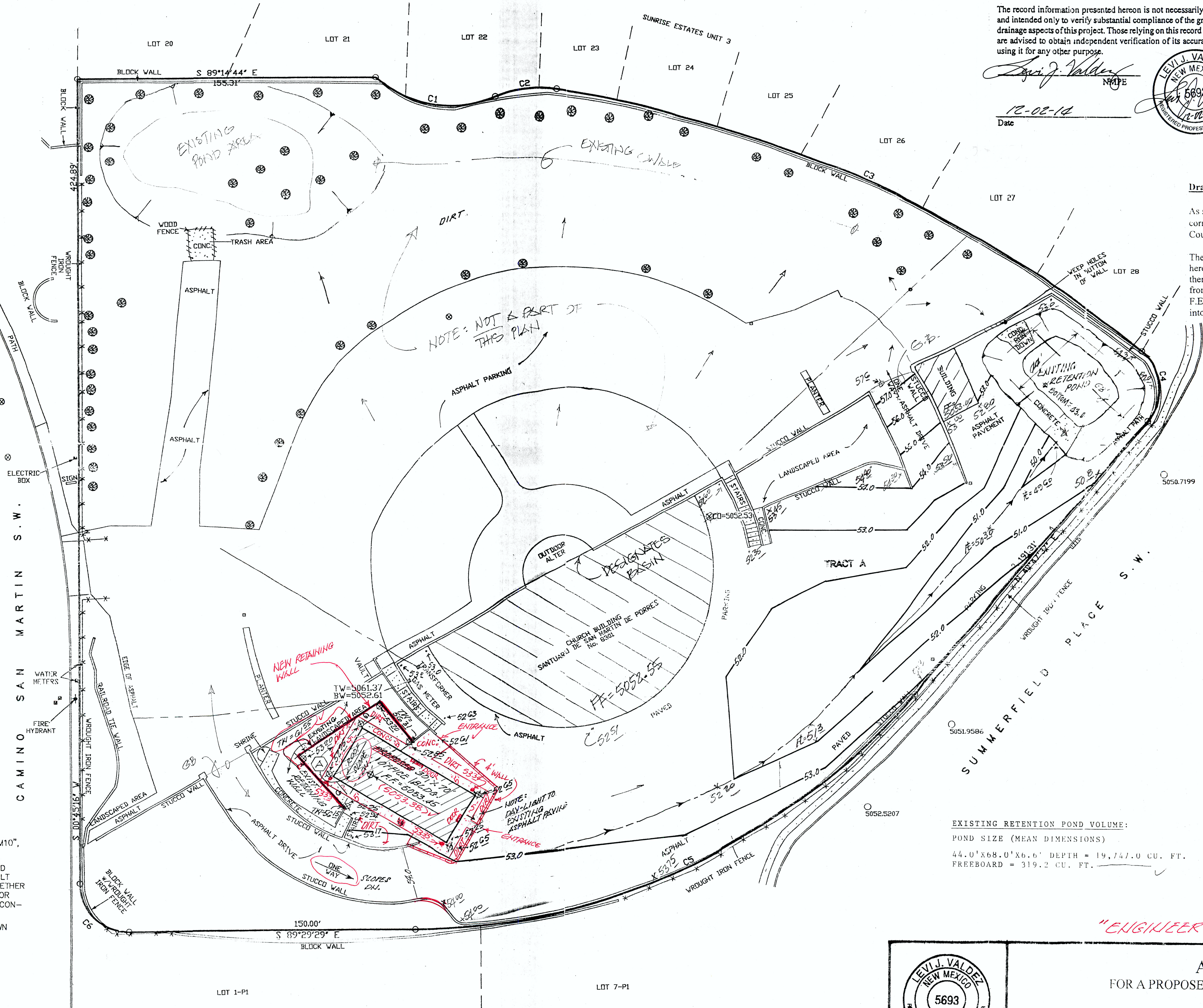
- NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.
- NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD OTHER THAN SHOWN HEREON.

LEGEND:

TOP OF CURB ELEVATION = Δ / Δ
CURB FLOWLINE ELEVATION = Δ / Δ
EXISTING SPOT ELEVATION = \times
EXISTING CONTOUR ELEVATION = \times
PROPOSED SPOT ELEVATION = Δ
PROPOSED CONTOUR ELEVATION = Δ
PROPOSED OR EXISTING CONCRETE SURFACE = ---
EXISTING FENCE LINE = ---

GENERAL NOTES:

- CONTOUR INTERVAL IS ONE (1) FOOT.
- ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE STATION No. "S-M10", HAVING AN ELEVATION OF 5042.769, NAVD 1988
- UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/OR DEPTH PRIOR TO EXCAVATION OR DESIGN CONSIDERATIONS.
- THIS IS NOT A BOUNDARY SURVEY. BEARINGS AND DISTANCES SHOWN HEREON ARE FOR REFERENCE ONLY.



FORMER LANDSCAPE AREA NOW NEW BUILDING AREA

NOTE: DATA IN RED IS PER CERTIFICATION 12-02-14.

M10-0002

CITY OF ALBUQUERQUE



December 5, 2014

Levi J. Valdez, PE
George T Rodriguez-Development Consultant
12800 San Juan Rd. SE
Albuquerque, NM 87123

Re: Santuario de San Martin de Porres Church
8321 Camino San Martin SW
Request Permanent C.O. - Accepted
Engineer's Stamp dated: 8-27-13 (M10D002)
Certification dated: 12-2-14

Dear Mr. Valdez,

Based on the Certification received 12/4/2014, the site is acceptable for release of Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3695 or Rudy Rael at 924-3977.

PO Box 1293

Albuquerque

New Mexico 87103

Sincerely,

Curtis Cherne, P.E.
Principal Engineer, Planning Dept.
Development and Review Services

www.cabq.gov

C: RR/CC
email