CITY OF ALBUOUEROUE

PLANNING DEPARTMENT - Development Review Services

January 14, 2016

Craig Hagelgantz, P.E.
ABQ Engineering Inc.
8201 Menaul Blvd., Suite D
Albuquerque, New Mexico 87110



Richard J. Berry, Mayor

RE: RGNC State Park Parking Lot

Grading & Drainage Plan

Engineer's Stamp Date 11-18-2015 (File: F12D001)

Dear Mr. Hagelgantz:

Based upon the information provided in your submittal received 11-19-15, the above referenced plan is approved for Grading Permit with the following conditions/comment:

- The existing parking site is 1.81 with the proposed expansion being 2 acres, for a total of 3.81 Acres. The existing site is gravel and flat, so it appears runoff either infiltrated, or flowed to a low area on the proposed expansion. This historic drainage pattern must be maintained. The submitted plan shows that the low area is not being reduced in volume. If fact a shallow pond shows that additional volume (5194CF-2178CF = 3016 CF) is being provided which is an improvement of current conditions.
- 2. However, there is not in our records a grading plan for the existing lot, and volume for the 100-yr storm should have been retained within the property boundaries. In order to protect the lots to the south, provide a berm along the south property line that would contain the volume for the entire site based on the 100-yr storm. Show the berm on the as-built plan with the Engineer Certification which is to be submitted at the completion of the project.
- 3. Beginning February 1st, 2016, an Erosion and Sediment Control (ESC) *Permit* will be required for all construction, demolition clearing and grading operations that disturb one acre or more of land. **See attached Permit**. The Erosion and Sediment Control (ESC) Plan must be approved by the City's Storm water Engineer.

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

Sincara

Rita Harmon, P.E.

Senior Engineer, Planning Dept. Development Review Service

Orig: c.pdf:

PO Box 1293

Albuquerque

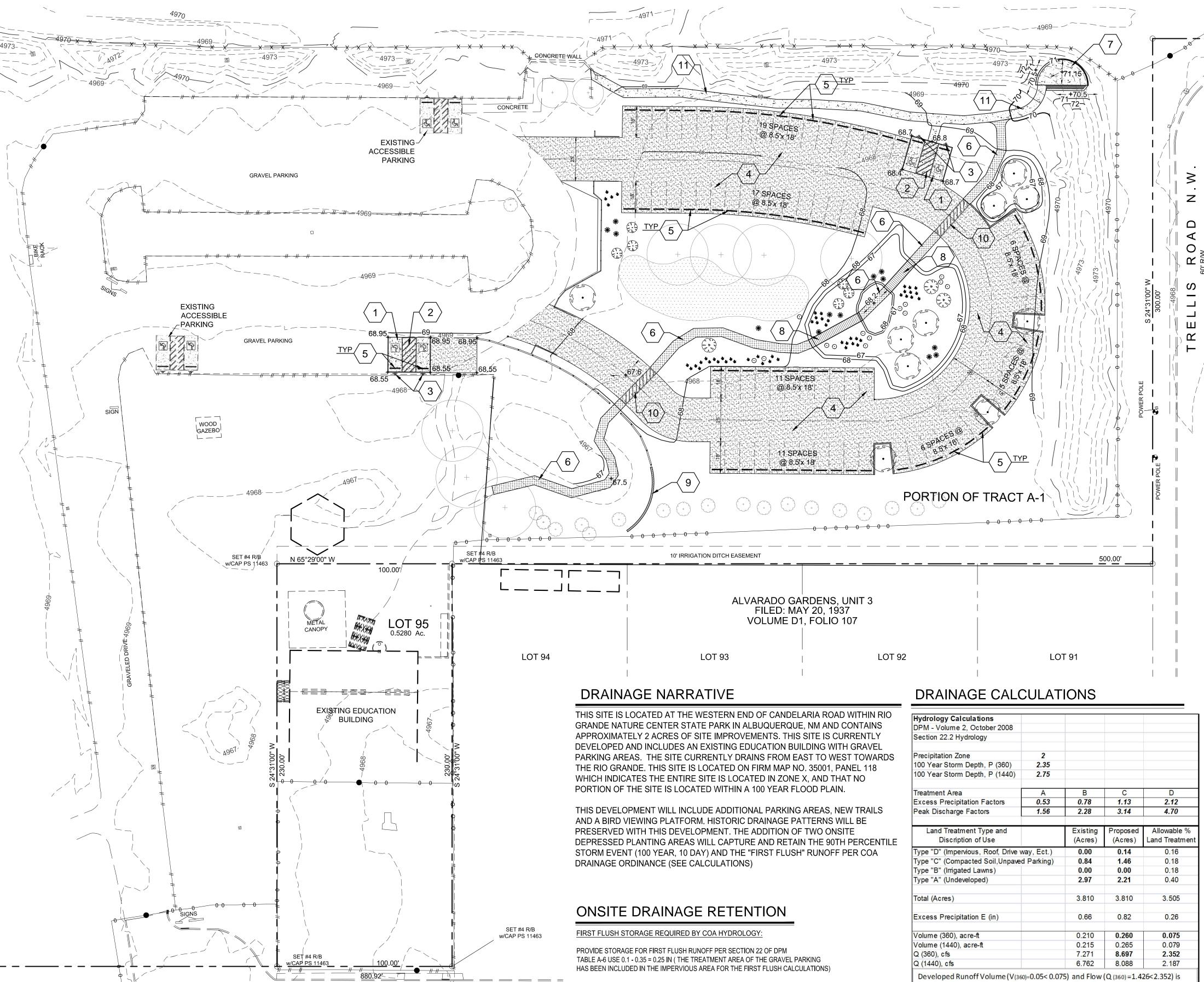
New Mexico 87103

www.cabq.gov

Drainage file via Email: Recipient

F12D001_GP_Appr_Cond.doc

1 of 1



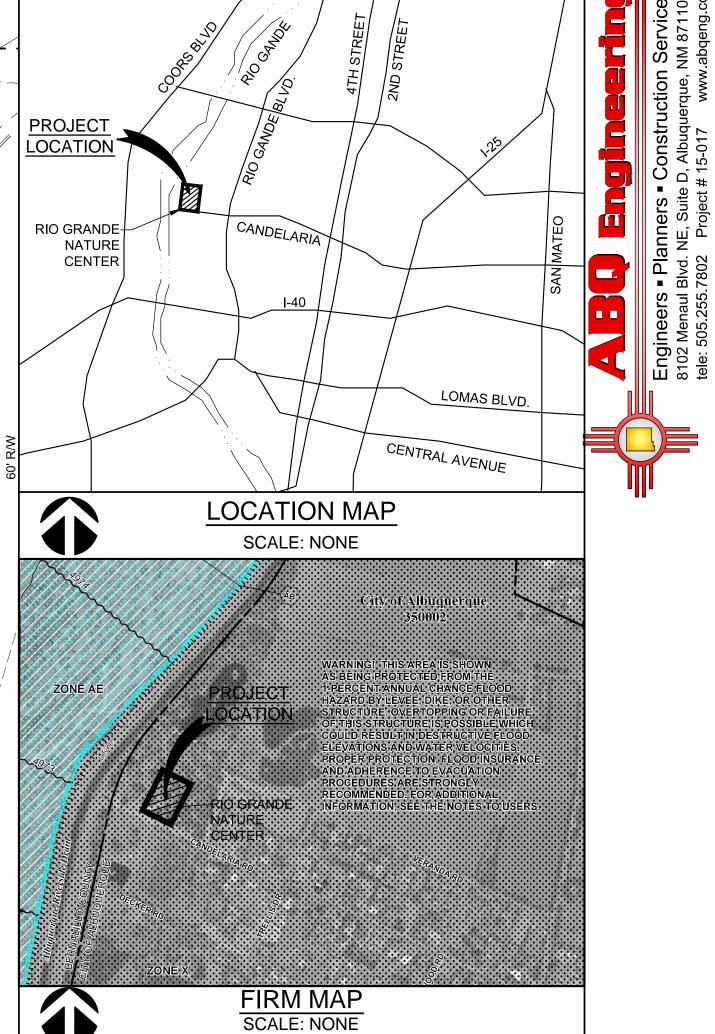
HAS BEEN INCLUDED IN THE IMPERVIOUS AREA FOR THE FIRST FLUSH CALCULATIONS)

FIRST FLUSH (IN) APPLIED OVER IMPERVIOUS AREAS (ACRES) THEREFORE 0.25/12 X 1.60 X 43560 = 1452 CF

FIRST FLUSH PONDING AREA REQD. = 1452 CF < 5194 CF PROVIDED

Hydrology Calculations DPM - Volume 2, October 2008				
Section 22.2 Hydrology				
Section 22.2 Hydrology				
Precipitation Zone	2			
100 Year Storm Depth, P (360)	2.35			
100 Year Storm Depth, P (1440)	2.75			
Treatment Area	Α	В	С	D
Excess Precipitation Factors	0.53	0.78	1.13	2.12
Peak Discharge Factors	1.56	2.28	3.14	4.70
Land Treatment Type and		Existing	Proposed	Allowable %
Discription of Use		(Acres)	(Acres)	Land Treatmen
Type "D" (Impervious, Roof, Drive way, Ect.)		0.00	0.14	0.16
Type "C" (Compacted Soil, Unpaved Parking)		0.84	1.46	0.18
Type "B" (Irrigated Lawns)		0.00	0.00	0.18
Type "A" (Undeveloped)		2.97	2.21	0.40
Total (Acres)		3.810	3.810	3.505
Excess Precipitation E (in)		0.66	0.82	0.26
Volume (360), acre-ft		0.210	0.260	0.075
Volume (1440), acre-ft		0.215	0.265	0.079
Q (360), cfs		7.271	8.697	2.352
Q (1440), cfs		6.762	8.088	2.187
Developed Runoff Volume (V(36 less than Allowable . Ponding Re- Devleoped Condition is = 0.26-0.	quiered is Vp	ond = Volun	ne of Runoff	

RETENTION POND VOLUME PROVIDED = 5194 CF > 2178 CF



- 1. CONSTRUCT NEW CONCRETE PAD FOR ACCESSIBLE PARKING. SEE DETAIL 4/C-501.
- 2. INSTALL ACCESSIBLE PARKING PER DETAIL 1/C-501.
- 3. INSTALL ACCESSIBLE PARKING SIGNS. SEE DETAIL 2/C-501.
- 4. CONSTRUCT NEW GRAVEL PARKING PER DETAIL 5/C-501.
- 5. INSTALL WHEEL STOPS. SEE DETAIL 3/C-501.

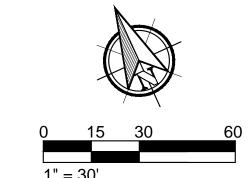
KEYED NOTES

- 6. CONSTRUCT NEW STABILIZED SOIL WALKS.
- 7. CONSTRUCT NEW CONCRETE BIRD VIEWING PLATFORM. SEE ARCHITECTURAL PLANS FOR DETAILS.
- 8. CONSTRUCT NEW BOARDWALK. SEE ARCHITECTURAL PLANS FOR
- 9. CONSTRUCT NEW MASONRY WALL. SEE ARCHITECTURAL PLANS FOR DETAILS.
- 10. CONSTRUCT 5' x 25' CONCRETE ACCESSIBLE CROSSWALK.
- 11. CONSTRUCT NEW CONCRETE WALK.

LEGEND

0540	EVICTING INDEX CONTOUR
— — — ·6510 - — —	EXISTING INDEX CONTOUR
6509	EXISTING INTERIM CONTOUR
10	NEW INDEX CONTOUR
09	NEW INTERIM CONTOUR
+ 22.8	NEW SPOT ELEVATION
Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ	NEW CONCRETE
	NEW GRAVEL
7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	NEW STABILIZED SOIL WALK
<u> </u>	EXISTING BUILDING
—	DIRECTION OF FLOW
•	EXISTING GATE
-0-0-	EXISTING WOOD FENCE
-#-#-	EXISTING WOOD RAIL FENCE
-X-X-	EXISTING WIRE FENCE
-0-0-	EXISTING CHAINLINK FENCE
S	EXISTING SIGN
-	NEW SIGN
•	EXISTING POWER POLE

GRADING & DRAINAGE PLAN



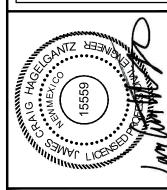
CANDELARIA ROAD N.W.







Robert M. Love AIA Santa Fe, New Mexico 8750. 505 476 3382 NEW MEXICO STATE PARKS DESIGN & DEVELOPMENT BUREAU



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C# BWVCCSIT

SITE GRADING &

DRAINAGE PLAN

NOVEMBER 2015

PROJECT ENGINEER: J

HANDICAP ACCESSIBLE PARKING LAYOUT PLAN

12" x 18" SIGN WITH -INTERNATIONAL HANDICAP SYMBOL AND "HANDICAP PARKING" MESSAGE "VAN ACCESSIBLE" —
MESSAGE AS REQUIRED
SEE SITE PLAN FOR
LOCATIONS 2" GALVANIZED STEEL— PIPE, PAINTED

2 HANDICAP ACCESSIBLE PARKING SIGN
Scale: NTS

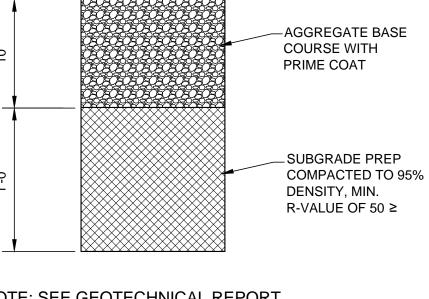
6"x 6" PRECAST CONGRETE WHEEL STOP —BEVEL CORNERS AS SHOWN CORNERS AS 3~#5 CONTINUOUS HORIZONTALLY ─#5 REBAR DOWELED 2'-0" MINIMUM THRU CONCRETE PAVING

WHEEL STOP DETAIL

Scale: NTS

—AGGREGATE BASE COURSE WITH PRIME COAT – SUBGRADE PREP COMPACTED TO 95% DENSITY, MIN. R-VALUE OF 50

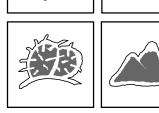
CONCRETE PAVING DETAIL



NOTE: SEE GEOTECHNICAL REPORT PERFORMED AND COMPLETED BY XXXXX, PROJECT XXXXX, DATED XXXXX

GRAVEL PAVING SECTION

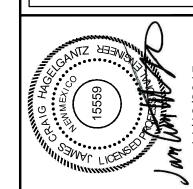




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MISCELLANE **DETAILS**

NOVEMBER 2015