

**DRAINAGE AND TRANSPORTATION INFORMATION SHEET**  
(REV 04/2009)

PROJECT TITLE: Jerry Cline Park Tennis Center \_\_\_\_\_ ZONE MAP: J-19 / D26  
DRB#: \_\_\_\_\_ EPC#: \_\_\_\_\_ WORK ORDER#: \_\_\_\_\_

LEGAL DESCRIPTION: JERRY CLINE PARK  
CITY ADDRESS: 7205 Constitution Avenue NE, ABQ, NM

ENGINEERING FIRM: Scott M McGee PE CONTACT: Scott McGee  
ADDRESS: 9700 Tanoan Drive NE PHONE: 263-2905  
CITY, STATE: ABQ, NM ZIP CODE: 87111

OWNER: City of Albuquerque CONTACT: Barbara Baca  
ADDRESS: PHONE: 768-5300  
CITY, STATE: ABQ, NM ZIP CODE: 87102

ARCHITECT: Lee Gamelsky Architects CONTACT: Lee Gamelsky  
ADDRESS: 2412 Miles Rd SE PHONE: 842-8865  
CITY, STATE: Phoenix, AZ ZIP CODE: 87106

SURVEYOR: Forstbauer Surveying CONTACT: Ron Forstbauer  
ADDRESS: 4116 Lomas Blvd NE PHONE: 268-2112  
CITY, STATE: ABQ, NM ZIP CODE: 87110

CONTRACTOR: CONTACT: \_\_\_\_\_  
ADDRESS: PHONE: \_\_\_\_\_  
CITY, STATE: ZIP CODE: \_\_\_\_\_

**TYPE OF SUBMITTAL:**

\_\_\_\_ DRAINAGE REPORT  
\_\_\_\_ DRAINAGE PLAN 1<sup>st</sup> SUBMITTAL  
\_\_\_\_ DRAINAGE PLAN RESUBMITTAL  
\_\_\_\_ CONCEPTUAL G & D PLAN  
XX \_\_\_\_ GRADING PLAN  
\_\_\_\_ EROSION CONTROL PLAN  
\_\_\_\_ ENGINEER'S CERT (HYDROLOGY)  
\_\_\_\_ CLOMR/LOMR  
\_\_\_\_ TRAFFIC CIRCULATION LAYOUT  
\_\_\_\_ ENGINEER'S CERT (TCL)  
\_\_\_\_ ENGINEER'S CERT (DRB SITE PLAN)  
\_\_\_\_ OTHER (SPECIFY)

**CHECK TYPE OF APPROVAL SOUGHT:**

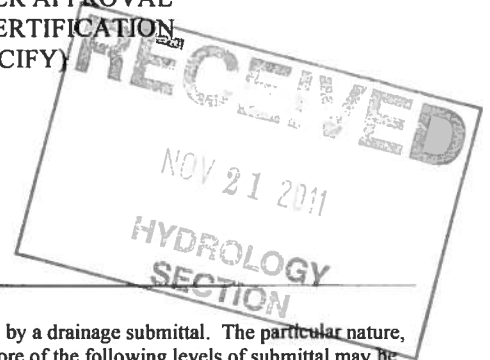
\_\_\_\_ SIA/FINANCIAL GUARANTEE RELEASE  
\_\_\_\_ PRELIMINARY PLAT APPROVAL  
\_\_\_\_ S. DEV. PLAN FOR SUB'D APPROVAL  
\_\_\_\_ S. DEV. FOR BLDG. PERMIT APPROVAL  
\_\_\_\_ SECTOR PLAN APPROVAL  
\_\_\_\_ FINAL PLAT APPROVAL  
\_\_\_\_ FOUNDATION PERMIT APPROVAL  
XX \_\_\_\_ BUILDING PERMIT APPROVAL  
\_\_\_\_ CERTIFICATE OF OCCUPANCY (PERM)  
\_\_\_\_ CERTIFICATE OF OCCUPANCY (TEMP)  
\_\_\_\_ GRADING PERMIT APPROVAL  
\_\_\_\_ PAVING PERMIT APPROVAL  
\_\_\_\_ WORK ORDER APPROVAL  
\_\_\_\_ GRADING CERTIFICATION  
\_\_\_\_ OTHER (SPECIFY)

**WAS A PRE-DESIGN CONFERENCE ATTENDED:**

\_\_\_\_ YES  
\_\_\_\_ NO  
\_\_\_\_ COPY PROVIDED

**RESUBMITTAL**

DATE SUBMITTED: 11/21/2011 BY: SMM



Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to 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.

JERRY CLINE PARK TENNIS CENTER  
SUPPLEMENTAL DRAINAGE INFORMATION  
NOVEMBER 11, 2011

**EXISTING CONDITIONS:** The existing clubhouse is a 3,100 sf building surrounded by both concrete walkways and gravel surfacing. Approximately 4,000 sf of existing paved parking is being removed. These improvements are located near the northwest corner of the park, which is also the low point.

**PROPOSED IMPROVEMENTS:** The proposed improvements include a 7,250 sf clubhouse building and a new drop-off area. The drop off area amounts to about 6,100 sf of new pavement.

**DRAINAGE APPROACH:** The proposed drainage plan will continue to follow historic flow paths, but the increased impervious area will have a minimal increase in site runoff. The additional impervious area of  $13,350 - 7,100 = 6,250$ sf replaces existing gravel surfacing.

For Precipitation Zone 3, this 0.14-acre change from land treatment type 'C' to 'D' results in an increase of 0.2 CFS. From the prior Drainage plan, the entire site runoff is 53.5 CFS (for the 14.9 acre park). The proposed clubhouse building and drop-off area will add only a minimal 0.2 CFS (<0.4%) increase in runoff to 53.7 CFS. Site runoff will continue to discharge to the existing 60" storm drain which carries runoff to the I-40 channel.

**CAPACITY CALCULATIONS:**

U-shaped concrete channel from building to cul-de-sac is 12"x6" at the curb face (narrowest point)

Manning for  $n=0.12$ :  $Q=(1.486/.012) \times 0.5 \times 0.397 \times 0.10 = 2.4$  cfs

Building runoff =  $0.17$  acre  $\times 5.02$  cfs/ac =  $0.83$  cfs (OK)

North side of cul-de-sac— two 24" wide sidewalk culverts @ 24"x8"

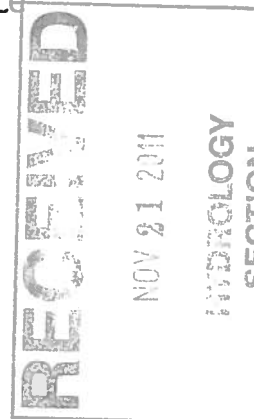
24" sidewalk culvert:  $Q=(1.486/.012) \times 1.33 \times 0.54 \times 0.10 = 8.9$  cfs

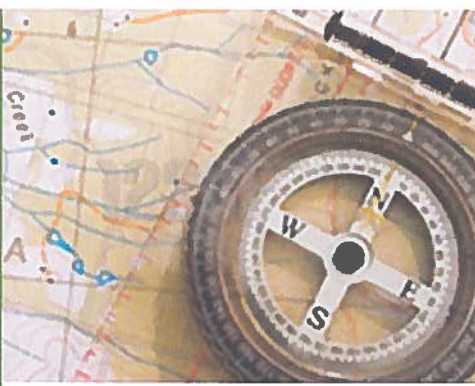
$Q = 8.9 \times 2 = 17.8$  cfs (>12.0 cfs draining from parking lot to cul-de-sac)

Inlet capacity using Orifice equation  $Q = K \times A \times (2gH)^{1/2}$

$Q = (0.6) \times 0.55 \times (64.4)(0.1)^{1/2} = 0.8$  cfs (using 0.1' depth)

Typical patio area draining to inlet is 1800 sf-  $Q=0.04 \times 5.02 = 0.2$  cfs (OK)





**SCOTT M MCGEE PE, LLC**  
CIVIL ENGINEER

FROM PROJECT INCEPTION TO  
CONSTRUCTION COMPLETION

November 21, 2011

Shahab Biazar, PE  
Senior Engineer, Planning Dept.  
Development and Building Services  
City of Albuquerque  
Albuquerque, NM 87103

RE: Jerry Cline Park (J19/ D26)

Dear Mr. Biazar,

I am submitting the revised Grading plan for the proposed tennis clubhouse. Your review comments of September 28 have been addressed as follows:

- < The NAVD 88 requirement was waived by Curtis Cherne for this ongoing City project.
- < Existing contour labels and spot elevations are now more bold.
- < No work is proposed within the NMDOT R/W. Site discharge enters an existing City storm drain system onsite.
- < The property line has been noted.
- < The existing drainage swale was previously cobble lined.
- < Calculations have been added to the Supplemental Drainage Information. A detail has been added for the U-shaped concrete channel.
- < Existing inlets under the proposed inlet will be relocated. The Architect's Demolition sheet addresses a portion of this work.
- < A single finish floor elevation is proposed for this single odd-shaped building.

Please contact me either by phone or e-mail if needed to answer questions. Thank you.

Scott M McGee PE

