CITY OF ALBUQUERQUE



November 22, 2017

Diane Hoelzer, P.E. Mark Goodwin & Associates PO Box 90606 Albuquerque, NM, 87199

RE: Country Club Plaza Bldg 3 Conceptual Grading and Drainage Plan Engineers Stamp Date: 11/17/17 Hydrology File: J13D010

Dear Ms. Hoelzer:

Based on the information provided in your submittal received on 11/17/17, the Conceptual Grading and Drainage Plan cannot be approved for Site Plan for Building Permit until the following is addressed:

PO Box 1293

1. Demonstrate that if the pump fails, the 100-year, 10-day volume will not flood the adjacent properties. i.e.: determine this water surface elevation and show that it will either remain on the Country Club Plaza property or flow overland out to Laguna. Provide section views across the property line as required to support this.

Albuquerque

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

NM 87103

Sincerely,

www.cabq.gov

Dana Peterson, P.E. Senior Engineer, Planning Dept. Development Review Services

Country Club Plaza III

Drainage Management Plan

Prepared by Mark Goodwin & Associates, P.A.

November 2017





City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Country Club Plaza - PHASE III	Building Permit #:	City Drainage #: J13 / D010						
DRB#: 1004677 EPC#:		Work Order#:						
Legal Description: Remaining portion Tract B, Hunning Castle Add	ition, Tract A-1-A, Laguna Subdivisions Trac	ts A and B, lands of HB Horns and						
City Address: Central and Laguna								
Engineering Firm: MARK GOODWIN & ASSOCIATES, PA								
Address: PO BOX 90606, ABQ, NM		Contact: Diane HOELZER, PE						
		E-mail: DIANE@GOODWINENGINEERS.COM						
		E-Mail. DIANE@GOODWINENGINEERS.COM						
Owner: COUNTRY CLUB PARTNERS, LLC		Contact: JAY REMBE						
Address: 117 B-RICHMOND NE, ABQ, NM 87106								
Phone#: _453-7164 Fax#:		E-mail: REMBE@INFILLSOLUTIONS.COM						
Architect: MULLEN HELLER ARCHITECTURE, PC		Contact: MIKE SALVADOR						
Address: 924 PARK AVE, STE B, ABQ,NM 87102								
Phone#: 268-4144 Fax#:		E-mail: MIKE@MULLENHELLER.COM						
Surveyor:		Contact:						
Address:	· · · · · · · · · · · · · · · · · · ·							
Phone#: Fax#:		E-mail:						
Contractor: INSIGHT CONSTRUCTION / PYTHON CONSTRUCT								
Address:		Contact:						
Phone#: Fax#:		F-mail:						
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVA	AL/ACCEPTANCE SOUGHT:						
X DRAINAGE REPORT	SIA/FINANCIAL GUARAN							
DRAINAGE PLAN Ist SUBMITTAL	PRELIMINARY PLAT APPF	ROVAL						
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D .	APPROVAL						
X CONCEPTUAL G & D PLAN	X S. DEV. FOR BLDG. PERMI	T APPROVAL						
GRADING PLAN	SECTOR PLAN APPROVAL							
EROSION & SEDIMENT CONTROL PLAN (ESC)	FINAL PLAT APPROVAL							
ENGINEER'S CERT (HYDROLOGY)	CERTIFICATE OF OCCUPA	NCY (PERM)						
CLOMR/LOMR	CERTIFICATE OF OCCUPA	NCY (TCL TEMP)						
TRAFFIC CIRCULATION LAYOUT (TCL)	FOUNDATION PERMIT AP							
ENGINEER'S CERT (TCL)	BUILDING PERMIT APPRO							
ENGINEER'S CERT (DRB SITE PLAN)	GRADING PERMIT APPRO							
ENGINEER'S CERT (ESC)	PAVING PERMIT APPROV							
SO-19	WORK ORDER APPROVAL							
OTHER (SPECIFY)	GRADING CERTIFICATION							
WAS A PRE-DESIGN CONFERENCE ATTENDED:	Yes No Co	py Provided						
DATE SUBMITTED: NOVEMBER 17, 2017	By: DIANE HOELZER, PE							

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 followin

Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans 1.

Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres 2. 3.

Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more

4. Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

Country Club Plaza – Phase III

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- II DESIGN CRITERIA AND PREVIOUS REPORTS
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FIGURE 3	Drainage Basin Areas/First Flush Calc
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TABLE 2	Summary of Pond Volumes/ WSEL for Storm Events
TABLE 3	Precipitation values
APPENDIX A	AHYMO Printouts

POCKET 1 GRADING AND DRAINAGE PLAN



November 16, 2017

Dana Peterson, PE Hydrology Division, Planning Dept. Development and Building Services City of Albuquerque PO Box 1293 Albuquerque, NM 87103

Re: Country Club Plaza III Engineers stamp date 11-16-17 (J13 / D010)

Dear Mr. Peterson:

In response to your July 18 comment letter,

- 1. Project description has been added,
- 2. The site has two detention ponding areas that will capture and detain onsite flows and discharge to the Laguna storm drain at a discharge rate not to exceed 1.0 cfs. The AHYMO results shows that the ponds can be drained in approximately 4 hours for the 100 year 6 hour storm event. The maximum water surface elevation was determined to be 5450.91 with about 1.0 foot of freeboard. The top of the ponds are at 5452.0'
- 3. There is no pond storage in the parking lot.
- 4. Given the surrounding existing grades it is not possible to provide for any emergency overflow spillway from either of the ponds that would lead to the public right of way. The top of the ponds are at 5452.0'. Central Avenue elevations are at +/-54.0'. The flowline elevation at Laguna Blvd. is at +/- 52.74'. It looks like the best that can be provided would be a 0% slope V-ditch leading from Pond #2 to Laguna Blvd. with an invert of 52.74 to match the flowline in Laguna Blvd.
- 5. This note has been added to both Conceptual Grading plan sheets,
- 6. All buildings are at least 1.0' above the maximum water surface elevation.
- 7. Okay.

Please call me if you have any questions.

Sincerely,

MARK GOODWIN & ASSOCIATES, P.A.

Diane Hoelzer, PE

Senior Engineer

DLH/dlh f:\\15007 \Country Club Plaza III\ hydro_ltr_15007.docx

CITY OF ALBUQUERQUE



July 18, 2017

Diane Hoelzer, P.E. Mark Goodwin & Associates PO Box 90606 Albuquerque, NM, 87199

RE: Country Club Plaza Bldg 3 Conceptual Grading and Drainage Plan Engineers Stamp Date: 6/28/17 Hydrology File: J13D010

Dear Ms. Hoelzer:

Based on the information provided in your submittal received on 7/5/17, the Conceptual Grading and Drainage Plan cannot be approved for Site Plan for Building Permit until the following are addressed:

- 1. Include a drainage narrative to support the Grading and Drainage Plan.
- 2. This site must provide detention ponding capable of detaining a design storm (100yr) equal to or exceeding the evacuation time, or the 10day storm.
 - 3. If the parking area is to be used for ponding, the depth may not exceed 8" in any parking stall.
 - 4. Provide a narrative addressing the need or lack of need for an emergency spillway.
 - 5. Add "Not for Construction" labeling to this conceptual plan; more detail will be required prior to Building Permit.
- 6. Maximum water surface elevation must be calculated and all buildings (including the adjoining residential properties) should be elevated 1' above the water surface elevation.
- 7. Supporting calculations for hydrology and pond volume showing that the existing pond may be eliminated and replaced with this site configuration will need to be provided and reviewed prior to Hydrology's approval of the Site Plan. Details such as curbcuts, pump, and forcemain design may be deferred to Building Permit.

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Sincerely,

Dana Peterson, P.E. Senior Engineer, Planning Dept. Development Review Services

Albuquerque - Making History 1706-2006

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

I. PROJECT DESCRIPTION

This is the third phase of Country Club Plaza. The first phase included renovation of existing buildings and parking areas located in the NW part of the property adjacent to Central Avenue. The second phase included a new building and additional parking in the SE part of the property adjacent to Central Avenue. This phase includes the construction of a three-story commercial/ residential building with a total area of approximately 49,800 square feet.

II. DESIGN CRITERIA AND PREVIOUS DEVELOPMENT

The design criteria used in this report was in accordance with Section 22.2 Hydrology of the Development Process Manual, Volume 2, Design Criteria, January 1993 edition. The 2-yr 10-yr, 25-yr, 50-yr and 100year 6-hour storm events were analyzed to determine the overall impact on Pond #1 that the client wants to use as a small landscaped park for the residents.

The onsite Land Treatment values were determined by measuring the total impervious area of the onsite runoff contributing to the ponds. The first flush volumes were calculated using 0.34 inches of precipitation over the new impervious areas, including roof and asphalt roads.

III. EXISTING DRAINAGE CONDITIONS

Under existing drainage conditions, the existing developed area identified as "B" drains to Central Avenue (Figure 3). The remaining area in Country Club Plaza including much of the existing pavement on the south side of the existing buildings as well as the new proposed building drains to the proposed Pond #1 or #2.

IV. DEVELOPED DRAINAGE CONDITIONS

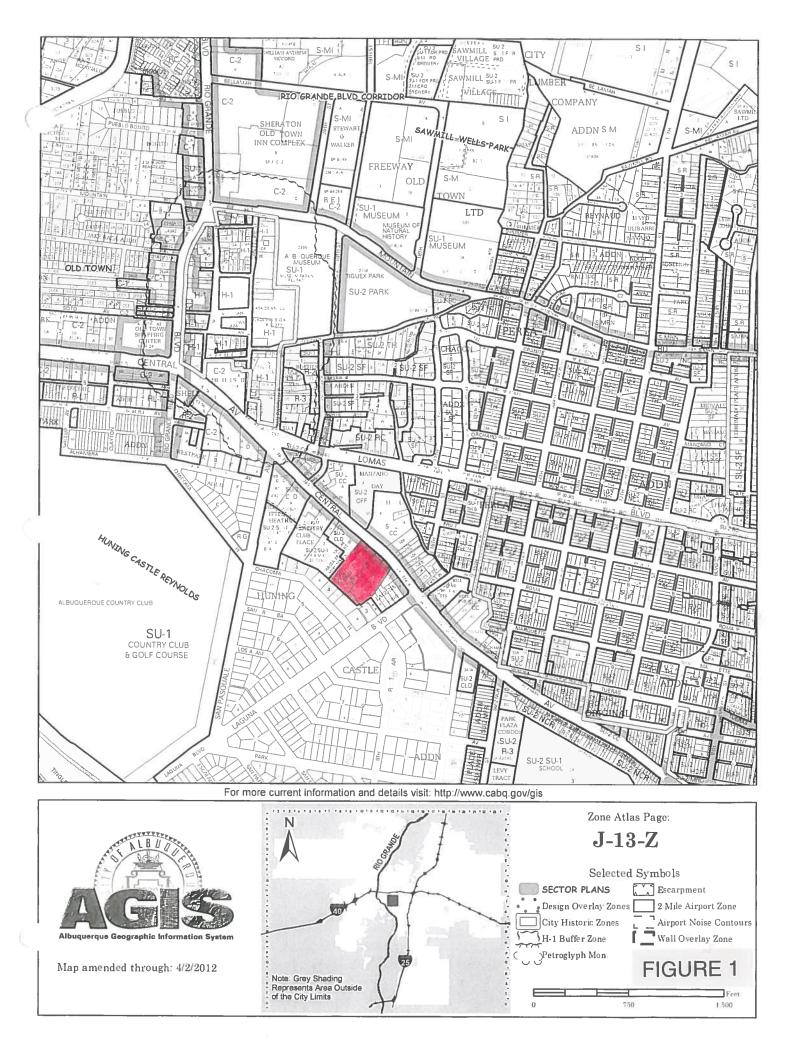
Under developed drainage conditions, runoff flows in a south to southwest direction before being intercepted through curb cuts, gravel-lined rundowns or concrete channels to either Pond #1 or Pond #2. These ponds will be inter-connected by a buried 24" pipe as shown on sheet 2. Sheet 2 shows a cross section of the top and bottom elevations of these two ponds as well as the results of the AHYMO analysis. Runoff in Pond #1 will spill through a 2' x 6' Type D inlet. Discharge values for this inlet can be found in the Appendix.

Pond #1 will discharge to the 24" pipe and be conveyed to Pond #2. Runoff in Pond #2 will spill into a wet well after a portion of the first flush volume is accounted for before being pumped at a maximum flow rate of 1.0 cfs to the existing storm drain in Laguna Blvd. The maximum flow rate was determined at the predesign meeting held with COA hydrology staff.

AHYMO was used to route the various storm events through both ponds. A summary of the results are shown on sheet 2 and Table 2.

V. FIRST FLUSH PONDS

Refer to Figure 3 and Table 1 for calculations involving First Flush volumes.





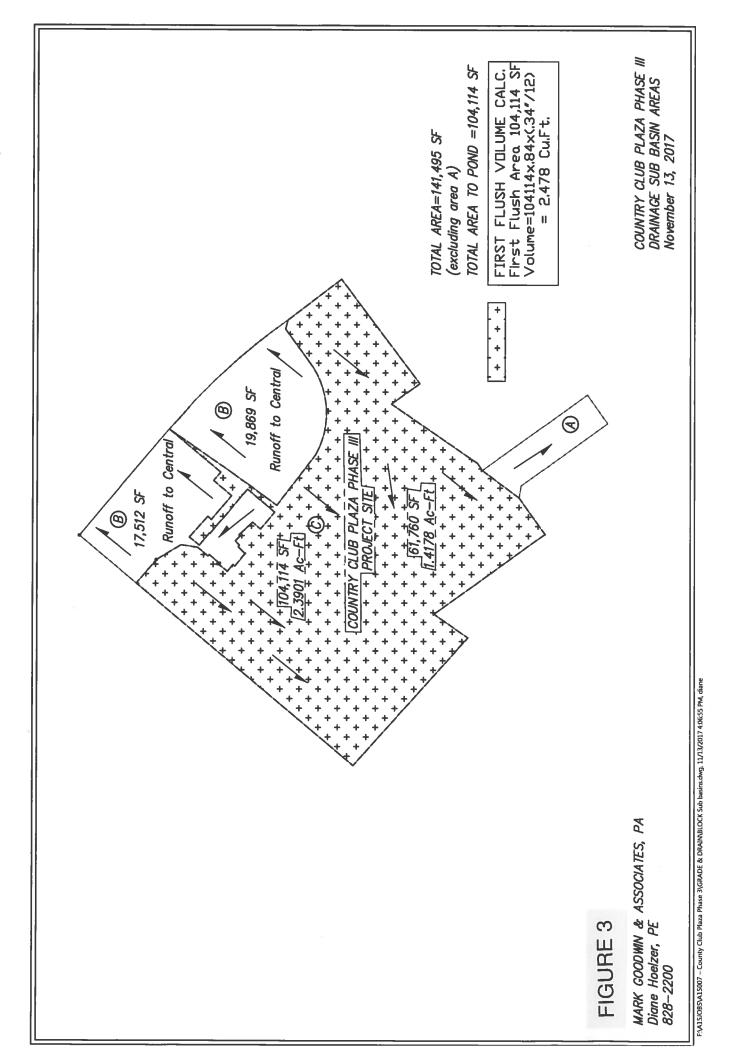


TABLE 1

		С	OUNTRY (CLUB PLAZ	ZA PHASE I	11				
			POND	RATING	TABLE					
	PON	ND 1	PON	ND 2						
ELEV	AREA	VOL-1	AREA	VOL-2	VOL-3	1+2+3	SUM	SUM		
FT	SF	CF	SF	CF	CF	CF	CF	AcFt		
52.00	2874	2812	1559	1559		4371	15391	0.35332		
51.00	2750	1781	1559 1029 2				11020	0.25298		
50.34	2647	891	1559	530		1421	8210	0.18848		
50.00	2596		1559	1559		1559	6789	0.15585		
49.00	0		1559	1559	261	1820	5230	0.12006		
48.00	0		1559	1559	261	1820	3410	0.07828		
47.00	0		1559	1590		1590	1590	0.03651		
45.98	0		1559	0	0	0	0			
	= FIRST FI	LUSH VOL	UME IN PO	OND 1 AN	D POND 2	= 2481 CF				

TABLE 2

	COUNTRY CLUB PLAZA PHASE III														
SUMMAR	Y OF PON	D VOLUM	ES/WSEL F	OR STOR	M EVENTS	5									
		2 YR 10 YR 25 YR 50 YF													
PEAK DISCHARGE	(cfs)	4.10	6.70	8.16	9.25	10.33									
MAX POND VOL.	(Ac.Ft.)	0.0890	0.1623	0.2077	0.2428	0.2787									
MAX. WSEL	(feet)	48.16	49.22	49.88	50.39	50.91									
PEAK Q OUTFALL	(cfs)	1.00	1.00	1.00	1.00	1.00									

TABLE 3

Precipitation value		2 YR	10 YR	25 YR	50 YR	100 YR
1 hours	(inches)	0.82	1.267	1.52	1.71	1.9
6 hour	(inches)	0.95	1.47	1.76	1.98	2.2
24 hour	(inches)	1.14	1.75	2.1	2.367	2.63

11/15/2017

322

DLH

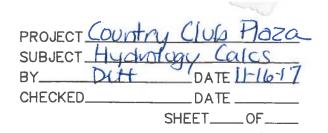
APPENDIX A

AHYMO printouts for 2, 10, 25, 50, 100-year 6-hour storm event

COUNTRY CLUB PLAZA III				
CONNECTING PIPE BETWEEN POND #1) #1 AND #2.			
		Results		
		Flow, Q	12.3899 Cfs	9 Cfs
4		Velocity, v	3.9439	fi/sec
		Velocity head, h _v	0.2417	fi <
Pipe diameter, d ₀	ft <	Flow area	3.1417	π ^2
	.013	Wetted perimeter	6.2832	4
	.003 rise/run 🗸	Hydraulic radius	0.5000	¥
Percent of (or ratio to) full depth (100% or 1 if flowing full)	fraction 🗸	Top width, T	0.0000	> ∉≓
		Froude number, F	0.00	
		Shear stress (tractive force), tau 0.3746	•) , tau 0.3746	psf
		×		
				an Jewiew Service an Jewiew Service

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D. Mark Goodwin & Associates, P.A. Consulting Engineers P.O. BOX 90606, ALBUQUERQUE,NM 87199 (505) 828-2200 FAX 797-9539



POND 1 - TYPE 'D' INCET Grate = z'x6' $L = 16 \simeq 14^{11}$ Q = 10,33 cfs (max) $Q = LCH^{3/2}$ U-LUH -10,33=(14)(3)(H)3/2 : H=0.4'

SHAPE CONSTANT, N = 7.106428 SHAPE CONSTANT, N = 4.104785 - 01 P60 = 1.9000P60 = 1.90006-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE AREAS (NM & AZ) DT = 0.033300 HOURS END TIME = 5.994000 HOURS 0.04000 INCHES PER HOUR 0.98750 INCHES PER HOUR 0.033300 0.033300 State of New Mexico soil infiltration values (LAND FACTORS) used for computations. USER NO.= M-GoodwinNMSiteA90075759 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 362.10 526.28 - Version: S4.01a - Rel: 01a B = n TURF = n B = 0 Unif. Infilt. (in/hour) K/TP RATIO = 0.865817 0.545000 INPUT FILE = C:\Program Files (x86)\AHYMO-S4\CCLUB100.DAT TIME=0.0 HR PUNCH CODE=0 PRINT LINES=-6 ID=1 HYD NO=100 AREA= 0.003735 SQ MI 0.9922 0.9984 PER A=0 PER B=6 PER C=10 PER D=84 TP = 0.133300HR K/TP RATIO = IA = 0.40625 INCHES0.10000 INCHES RAIN ONE=1.90 IN RAIN SIX=2.20 IN NOAA ATLAS 2, VOL IV ZONE J 13 RAIN DAY=2.63 IN DT=0.0333 HRS 1.67 1.25 0.83 CFS UNIT VOLUME = UNIT VOLUME = 100 YEAR 6 HOUR STORM EVENT TP=-.1333 HR MASS RAIN=-1 COUNTRY CLUB PLAZA UNIT 3 TYPE=1 RAIN QUARTER=0.0 LAST REVISED: 11-15-17 RUN DATE (MON/DAY/YR) = 11/15/2017 START TIME (HR:MIN:SEC) = 16:25:17 Initial Abstr. (in) TP = 0.133300HRIA = FILE: CCLUB100.DAT CFS NEW MEXICO COUNTRY CLUB SOUTH BUILDING FLOW TO SOUTH AND TO LAGUNA 0.000598 SQ MI 0.003137 SQ MI 法法法 法法法法法法法法法法法法法法法法法法法法法法法法 0.65 法法法 女女女女女女女女女女女女女女女女女女女女女女 0.35 0.10 AHYMO PROGRAM (AHYMO-S4) UNIT PEAK = 1.6233 12.387 水水水 法法法法法法法法法法法法法法法法法 = 0.115413HR K = 0.072649HR *** AREA = 104,114 SF Land Treatment UNIT PEAK = *** 2.46 ACRES COMPUTE NM HYD A A U D AREA = AREA = LOCATION RAINFALL × START ა * v v v ທ * * * * * ທ *

PRINT HYD

ID=1 CODE=1

PARTIAL HYDROGRAPH 100.00

BASIN AREA = 0.0037 SQ. MI. 0.3594 ACRE-FEET 1.532 HOURS AT Ш 10.33 CFS 1.80438 INCHES PEAK DISCHARGE RATE = RUNOFF VOLUME =

	0.033300HRS
	<u>ه</u> ۲.
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0.042 0.041 0.041 0.041 0.040 0.039 0.038 0.036 0.036 0.036 0.036 0.036 0.036 0.037 0.036 0.037 0.036 0.037 0.038 0.037 0.038 0.037 0.038 0.037 0.036 0.037 0.038 0.037 0.038 0.037 0.038 0.038 0.037 0.038 0.036 0.038 0.037 0.038 0.036 0.0380 0.0380 0.0380 0.0380000000000	VOLUME (AC-FT) 0.033 0.032 0.032 0.031 0.031 0.031 0.031 0.031 0.031 0.032 0.032 0.032 0.029 0.029 0.028 0.032 0.0280 0.02800 0.0280000000000
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	INFLOW (CFS) (CFS) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
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NORMAL PROGRAM FINISH

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SHAPE CONSTANT, N = 7.106428 SHAPE CONSTANT, N = 4.112381 6-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE AREAS (NM & AZ) - D1 P60 = 1.7100P60 = 1.7100B = 362.59 P60 = 1.7 INF = 0.98750 INCHES PER HOUR INF = 0.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033300 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033300 State of New Mexico soil infiltration values (LAND FACTORS) used for computations. USER NO.= M-GoodwinNMSiteA90075759 - Version: S4.01a - Rel: 01a 526.28 Unif. Infilt. (in/hour) н В 0.864339 TP = 0.133300HR K/TP RATIO = 0.545000 INPUT FILE = C:\Program Files (x86)\AHYMO-S4\CCLUB50.DAT 100.00 TIME=0.0 HR PUNCH CODE=0 PRINT LINES=-6 ID=1 HYD NO=100 AREA= 0.003735 SQ MI 0.9984 UNIT VOLUME = 0.9922 PER A=0 PER B=6 PER C=10 PER D=84 K = 0.115216HR TP = 0.133300HR K/TP RATIO = UNIT PEAK = 1.6256 CFS UNIT VOLUME = 0.9922 CFS UNIT VOLUME = 0.998 MI IA = 0.10000 INCHES 0.40625 INCHES PARTIAL HYDROGRAPH RAIN ONE=1.71 IN RAIN SIX=1.98 IN RAIN DAY=2.367 IN DT=0.0333 HRS NOAA ATLAS 2, VOL IV ZONE J 13 1.25 0.83 1.67 0.04 50 YEAR 6 HOUR STORM EVENT TP=-.1333 HR MASS RAIN=-1 COUNTRY CLUB PLAZA UNIT 3 TYPE=1 RAIN QUARTER=0.0 RUN DATE (MON/DAY/YR) = 11/15/2017START TIME (HR:MIN:SEC) = 15:48:19 LAST REVISED: 11-15-17 Initial Abstr. (in) IA = FILE: CCLUB50.DAT CFS ID=1 CODE=1 NEW MEXICO FLOW TO SOUTH AND TO LAGUNA COUNTRY CLUB SOUTH BUILDING 0.003137 SQ MI 0.000598 SQ MI 法法法 法法法法法法法法法法法法法法法法法法法法法法法 水水水 水水水水水水水水水水水水水水水水水水水 0.50 0.35 0.65 0.10 AHYMO PROGRAM (AHYMO-S4) 12.387 1.6256 女女女 女女女女女女女女女女女女女女女女 K = 0.072649HR*** AREA = 104,114 SF Land Treatment UNIT PEAK = COMPUTE NM HYD *** 2.46 ACRES А р UД AREA = AREA = PRINT HYD LOCATION RAINFALL START ະ ເ ເ ເ ເ ເ * * * * * * * *

1.532 HOURS BASIN AREA = 0.0037 SQ. MI.

0.3178 ACRE-FEET

INCHES = 9.25 CFS AT

1.59537 INCHES

PEAK DISCHARGE RATE =

RUNOFF VOLUME =

ELEV (FT) 48.00 45.98 CODE=50 52.00 47.00 *s* POND #2 FIRST FLUSH DEPTH AT 47.00 VOLUME=1590 CF *S* TOTAL FIRST FLUSH VOLUME=2481 CF (REQD = 2476 CF) *s* POND #1 FIRST FLUSH DEPTH AT 50.34 VOLUME=891 CF * OUTFLOW ID=12 HYD=POND.12 INFLOW=1 OUTFLOW(CFS) STORAGE(ACFT) *s* ROUTE THRU PARK POND 1 AND POND 2 AND 24" PIPE (CFS) * * 0.000000 0.07828 * 0.056956 0.048 0.047 0.047 0.046 0.046 0.046 0.045 0.000 .044 044 (AC-FT) .043 043 0.35332 VOLUME * * . . . 0 + 45.98 45.98 49.27 50.20 49.30 48.34 46.97 46.96 46.94 46.91 46.90 46.89 46.87 46.86 46.85 * 47.02 47.01 46.99 46.98 46.93 46.92 46.88 46.83 46.82 46.81 46.79 46.78 47.14 46.84 46.80 46.77 46.76 46.75 46.75 (FEET) ELEV * * 0.01 1.00 1.01 00.00 ***************** -)+ $\begin{array}{c} 0 & 0 \\$ INFLOW (CFS) * * ROUTE RESERVOIR * 0.00 0.80 1.60 2.40 5.59 6.59 8.79 8.79 8.79 1.39 15.18 16.78 16.78 17.58 17.58 17.58 18.38 19.18 19.18 22.78 22.38 11.19 11.99 12.79 13.59 14.39 23.18 23.98 24.78 25.57 26.37 (HRS) TIME * * * S ທ * Ω ≁

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		INFLOW (CFS) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	
777000111	33.57 34.37 35.16 35.16 36.76 39.96 441.56 42.36 39.96 39.96 33.96 33.96 33.96 33.96	TIME (HRS) 44.76 45.55 46.35 47.95 47.95 59.75 51.15 51.35 51.95	52.75 53.55 54.35 PEAK DISCHARGE MAXIMUM WATER MAXIMUM STORAG FINISH

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NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 15:48:19

SHAPE CONSTANT, N = 7.106428 SHAPE CONSTANT, N = 4.035276 - 11 = 357.51 P60 = 1.5200 0.98750 INCHES PER HOUR P60 = 1.52006-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE AREAS (NM & AZ) DT = 0.033300 HOURS END TIME = 5.994000 HOURS INF = 0.04000 INCHES PER HOUR 0.033300 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033300 State of New Mexico soil infiltration values (LAND FACTORS) used for computations. USER NO.= M-GoodwinNMSiteA90075759 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 526.28 - Version: S4.01a - Rel: 01a н Д Unif. Infilt. (in/hour) K/TP RATIO = 0.879646 וו 29 0.545000 INF = INPUT FILE = C:\Program Files (x86)\AHYMO-S4\CCLUB25.DAT TIME=0.0 HR PUNCH CODE=0 PRINT LINES=-6 ID=1 HYD NO=100 AREA= 0.003735 SQ MI 0.9917 0.9984 PER A=0 PER B=6 PER C=10 PER D=84 K/TP RATIO = 0.40625 INCHES 0.10000 INCHES RAIN ONE=1.52 IN RAIN SIX=1.76 IN NOAA ATLAS 2, VOL IV ZONE J 13 RAIN DAY=2.10 IN DT=0.0333 HRS 1.67 1.25 0.83 0.04 CFS UNIT VOLUME = MI IA = 0.40625 I CFS UNIT VOLUME = 25 YEAR 6 HOUR STORM EVENT TP=-.1333 HR MASS RAIN=-1 COUNTRY CLUB PLAZA UNIT 3 TYPE=1 RAIN QUARTER=0.0 RUN DATE (MON/DAY/YR) = 11/15/2017 START TIME (HR:MIN:SEC) = 15:46:11 LAST REVISED: 11-15-17 Initial Abstr. (in) TP = 0.133300HR TP = 0.133300HRIA = FILE: CCLUB25.DAT ID=1 CODE=1 NEW MEXICO COUNTRY CLUB SOUTH BUILDING FLOW TO SOUTH AND TO LAGUNA 0.003137 SQ MI 0.000598 SQ MI 赤水的 法法法法法法法法法法法法法法法法法法法法法法 女女女 女女女女女女女女女女女女女女女女女女女女女女 0.65 0.50 0.35 0.10 AHYMO PROGRAM (AHYMO-S4) 1.6028 12.387 *** ********** *** AREA = 104,114 SF K = 0.117257HR 0.072649HR Land Treatment UNIT PEAK = UNIT PEAK = *** 2.46 ACRES COMPUTE NM HYD A B U D AREA = AREA = 11 PRINT HYD LOCATION RAINFALL × START ა * ა თ * * * * * * * * ທ *

PARTIAL HYDROGRAPH 100.00

BASIN AREA = 0.0037 SQ. MI. 0.2766 ACRE-FEET 1.532 HOURS AT = 8.16 CFS 1.38869 INCHES PEAK DISCHARGE RATE = RUNOFF VOLUME =

ELEV (FT) 48.00 45.98 ID=12 HYD=POND.12 INFLOW=1 CODE=50 52.00 47.00 *s* POND #2 FIRST FLUSH DEPTH AT 47.00 VOLUME=1590 CF *S* TOTAL FIRST FLUSH VOLUME=2481 CF (REQD = 2476 CF) *s* POND #1 FIRST FLUSH DEPTH AT 50.34 VOLUME=891 CF OUTFLOW (CFS) 0.00 * *s* ROUTE THRU PARK POND 1 AND POND 2 AND 24" PIPE OUTFLOW (CFS) STORAGE (ACFT) * 0.000000 0.07828 * * 0.056956 0.054 0.053 0.053 0.052 0.051 0.051 0.051 0.051 0.051 0.049 0.049 0.047 0.047 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.045 0.144 0.192 0.130 0.068 0.057 0.057 0.056 0.056 0.055 0.043 0.043 000.0 0.000 0.044 0.044 0.35332 (AC-FT) * VOLUME * * 46.99 46.97 46.97 46.94 46.93 46.93 46.93 46.91 46.91 46.87 46.86 46.85 46.82 46.81 46.80 45.98 45.98 48.96 49.66 48.75 47.50 47.02 47.01 47.00 46.89 46.88 46.84 46.79 46.78 46.83 46.77 46.76 46.75 46.74 (FEET) ELEV * 0.01 1.00 1.01 00.00 + ************** * INFLOW (CFS) $\begin{array}{c} 0 & 0 \\$ * * ROUTE RESERVOIR * 0.00 0.80 0.80 2.40 7.99 8.79 8.79 8.79 9.59 8.79 111 12.79 112.79 112.79 112.79 112.79 112.79 112.79 112.79 112.79 20.33 20.78 20.78 20.78 20.59 20.55 20.5 23.98 24.78 25.57 26.37 * 21.58 22.38 23.18 (HRS) TIME -}* ທ * ທ * ທ *

			0.03300HRS
			2.03 TIME=
10. 10. 10. 10. 10. 10. 10.	10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	LOW () .01 .01 .01 .01 .01 .01	0.01 0.01 0.01 0.01 0.01 0.01 0.00 0.00
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	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	VOLUME (AC-FT) (AC-FT) 0.032 0.032 0.0321 0.031 0.031 0.030	р 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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		INFLOW (CFS) 0.00 0.00 0.00 0.00 0.00 0.00	
27.17 27.97 28.77 29.57 30.37 31.17 31.17	23.57 24.23.23 25.14 26.25 27.76 27.76 27.76 27.76 27.76 27.76 27.76 27.76 27.76 27.76 27.76 27.76 27.76 27.76 27.76 27.76 27.76 27.76 27.76 27.777 27.777 27.777 27.777 27.777 27.7777 27.7777 27.777	TIME (HRS) 44.76 45.55 46.35 47.15 47.15 48.75 50.35	51.15 51.95 52.75 53.55 54.35 PEAK DISCHARGE MAXIMUM WATER S MAXIMUM STORAGE

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NORMAL PROGRAM FINISH EN

END TIME (HR:MIN:SEC) = 15:46:11

SHAPE CONSTANT, N = 3.919162 SHAPE CONSTANT, N = 7.106428 10 P60 = 1.2670P60 = 1.26706-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE AREAS (NM & AZ) 0.04000 INCHES PER HOUR INF = 0.98750 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033300 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033300 State of New Mexico soil infiltration values (LAND FACTORS) used for computations. USER NO.= M-GoodwinNMSiteA90075759 526.28 349.75 - Version: S4.01a - Rel: 01a 5.994000 HOURS Unif. Infilt. (in/hour) K/TP RATIO = 0.904010 11 FC ш Д K/TP RATIO = 0.545000INF = INPUT FILE = C:\Program Files (x86)\AHYMO-S4\CCLUB10.DAT TIME=0.0 HR PUNCH CODE=0 PRINT LINES=-6 ID=1 HYD NO=100 AREA= 0.003735 SQ MI 0.9984 CFS UNIT VOLUME = 0.9917 PER A=0 PER B=6 PER C=10 PER D=84 CFS UNIT VOLUME = 0.998 MI IA = 0.10000 INCHES IA = 0.40625 INCHESRAIN ONE=1.267 IN RAIN SIX=1.47 IN RAIN DAY=1.75 IN DT=0.0333 HRS END TIME = NOAA ATLAS 2, VOL IV ZONE J 13 1.67 1.25 0.83 0.04 10 YEAR 6 HOUR STORM EVENT TP=-.1333 HR MASS RAIN=-1 COUNTRY CLUB PLAZA UNIT 3 TYPE=1 RAIN QUARTER=0.0 RUN DATE (MON/DAY/YR) = 11/15/2017START TIME (HR:MIN:SEC) = 16:34:26 LAST REVISED: 11-15-17 Initial Abstr. (in) TP = 0.133300HRTP = 0.133300HRFILE: CCLUBIO.DAT 0.033300 HOURS NEW MEXICO *S COUNTRY CLUB SOUTH BUILDING *S FLOW TO SOUTH AND TO LAGUNA 0.003137 SQ MI 0.000598 SQ MI 长大头 的复数的复数分词分词分词分词分词分词分词分词分词 水水水 女女女女女女女女女女女女女女女女女女女女女 0.65 0.50 0.35 0.10 AHYMO PROGRAM (AHYMO-S4) K = 0.120505HR TP UNIT PEAK = 1.5680 12.387 长长台 长长长长长长长长长长长长长长长长 *** AREA = 104,114 SF K = 0.072649HRDT = Land Treatment UNIT PEAK = COMPUTE NM HYD *** 2.46 ACRES 4 щυд AREA = AREA = LOCATION RAINFALL START ະ * * * ŝ v v v ທ *

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 100.00

1.532 HOURS BASIN AREA = 0.0037 SQ. MI. 0.2235 ACRE-FEET AT = 6.70 CFS 1.12186 INCHES PEAK DISCHARGE RATE = RUNOFF VOLUME =

ELEV (FT) 48.00 45.98 CODE=50 52.00 47.00 *s* POND #2 FIRST FLUSH DEPTH AT 47.00 VOLUME=1590 CF *S* TOTAL FIRST FLUSH VOLUME=2481 CF (REQD = 2476 CF) *s* POND #1 FIRST FLUSH DEPTH AT 50.34 VOLUME=891 CF 0.00 1.00 * 00.00 0.01 0.01 0.01 0.01 0.01 0.01 OUTFLOW *s* ROUTE THRU PARK POND 1 AND POND 2 AND 24" PIPE ID=12 HYD=POND.12 INFLOW=1 (CFS) STORAGE (ACFT) * 0.000000 0.07828 * * 0.056956 0.080 0.058 0.057 0.057 0.056 0.055 0.054 0.000 0.116 0.057 0.000 0.144 0.054 0.053 0.053 0.052 0.051 0:050 0.047 0.047 0.0450.045 0.051 0.050 0.049 0.048 0.048 0.046 0.35332 (AC-FT) 0.046 VOLUME * * ł OUTFLOW (CFS) 45.98 45.98 48.55 48.95 48.03 47.04 47.00 47.00 47.00 46.99 46.98 46.97 46.97 46.93 46.92 46.91 46.90 46.89 46.88 46.87 * 46.94 46.86 46.84 46.82 46.81 46.79 46.78 46.80 46.85 46.83 (FEET) ELEV × 00.00 0.01 1.00 1.01 * *0********** -11 INFLOW (CFS) 00.00 * ROUTE RESERVOIR * * * 1.60 2.40 3.20 4.00 5.59 6.39 6.39 7.19 8.79 9.59 10.39 11.19 11.99 12.79 12.79 13.59 14.39 15.18 0.00 0.80 15.98 16.78 18.38 19.18 19.98 20.78 22.38 23.18 17.58 21.58 (HRS) TIME * * ທ * ហ្គ * دن *

RUNOFF VOLUME = 1.07634 INCHES = 0.2144 ACRE-FEET PEAK DISCHARGE RATE = 1.00 CFS AT 1.998 HOURS BASIN AREA = 0.0037 SQ. MI.

HYDROGRAPH FROM AREA POND.12

	0.033300HRS
	2.00 [ME=
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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	6.53 6.51 6.51 6.51 6.51 6.49 6.49 6.49 6.49 0.03 CF VATION 0.1623 0.1623
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
23.98 25.57 25.57 25.57 25.57 26.37 26.37 277.17 28.37 28.77 28.77 28.77 28.77 28.77 28.77 28.77 28.77 28.77 28.77 28.77 28.77 28.77 28.77 28.77 28.77 28.77 29.77 29.77 29.77 29.77 29.77 20.77	50.35 51.15 51.15 52.75 52.75 53.55 54.35 54.35 FEAK DISCHARGE MAXIMUM WATER S MAXIMUM STORAGE PRINT HYD

SHAPE CONSTANT, N = 7.106428 SHAPE CONSTANT, N = 3.732439 -11 P60 = .82000= 336.92 P60 = .82000 0.98750 INCHES PER HOUR 6-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE AREAS (NM & AZ) 0.04000 INCHES PER HOUR

 K = 0.126243HR
 TP = 0.133300HR
 K/TP RATIO = 0.947056
 SHAPE CONSTANT, N

 UNIT PEAK = 1.5105
 CFS
 UNIT VOLUME = 0.9914
 B = 336.92
 P60 =

 AREA = 0.000598
 SQ MI
 IA = 0.40625
 INCHES
 INF = 0.98750
 INCHES
 PER HC

 RUNOFF
 COMPUTED BY
 INITIAL ABSTRACTION/INFILTRATION
 NUMBER
 METHOD - DT = 0.033300

0.033300 State of New Mexico soil infiltration values (LAND FACTORS) used for computations. USER NO.= M-GoodwinNMSiteA90075759 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 526.28 - Version: S4.01a - Rel: 01a 5.994000 HOURS Unif. Infilt. (in/hour) 11 72) 0.545000 INF = START TIME (HR:MIN:SEC) = 15:40:57 USER NO.= M-Good INPUT FILE = C:\Program Files (x86)\AHYMO-S4\CCLUB2.DAT LAST REVISED: 11-15-17 NOAA ATLAS 2, VOL IV ZONE J 13 TIME=0.0 HR PUNCH CODE=0 PRINT LINES=-6 ID=1 HYD NO=100 AREA= 0.003735 SQ MI 0.9984 PER A=0 PER B=6 PER C=10 PER D=84 K/TP RATIO = CFS UNIT VOLUME = 0.998 MI IA = 0.10000 INCHES RAIN ONE=0.82 IN RAIN SIX=0.95 IN RAIN DAY=1.14 IN DT=0.0333 HRS END TIME = 1.67 0.83 1.25 0.04 TP=-.1333 HR MASS RAIN=-1 COUNTRY CLUB PLAZA UNIT 3 2 YEAR 6 HOUR STORM EVENT TYPE=1 RAIN QUARTER=0.0 RUN DATE (MON/DAY/YR) = 11/15/2017Initial Abstr. (in) TP = 0.133300HRFILE: CCLUB2.DAT 0.033300 HOURS NEW MEXICO K = 0.126243HR TP = 0. UNIT PEAK = 1.5105 CF⁶ AREA = 0.000598 SQ MI COUNTRY CLUB SOUTH BUILDING FLOW TO SOUTH AND TO LAGUNA 0.003137 SQ MI ****************** 水水水 大大大大大大大大大大大大大大大大大大大大大大大大 0.65 0.50 0.35 0.10 AHYMO PROGRAM (AHYMO-S4) UNIT PEAK = 12.387 *** 2.46 ACRES *** ************** *** AREA = 104,114 SF K = 0.072649HRDT = Land Treatment COMPUTE NM HYD AUDA AREA = LOCATION RAINFALL START ທ * ა * ູ ທ ა ი ა ა * * 0 0 ທ * ທ *

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 100.00

0.0037 SQ. MI. 1.532 HOURS BASIN AREA = 0.1303 ACRE-FEET LNCHES = 4.10 CFS AT 0.65390 INCHES PEAK DISCHARGE RATE = RUNOFF VOLUME =

ELEV (FT) 45.98 48.00 CODE=50 52.00 47.00 *s* POND #2 FIRST FLUSH DEPTH AT 47.00 VOLUME=1590 CF *S* TOTAL FIRST FLUSH VOLUME=2481 CF (REQD = 2476 CF) *s* POND #1 FIRST FLUSH DEPTH AT 50.34 VOLUME=891 CF 0.00 0.63 0.48 * OUTFLOW *s* ROUTE THRU PARK POND 1 AND POND 2 AND 24" PIPE ID=12 HYD=POND.12 INFLOW=1 (CFS) STORAGE (ACFT) * 0.000000 0.07828 * 4 0.056956 0.057 0.057 0.056 0.000 0.070 0.055 0.055 0.067 0.053 0.053 0.052 0.052 0.051 0.050 0.049 0.048 0.047 0.046 0.045 0.048 0.046 0.044 0.043 0.049 0.045 0.044 0.043 0.042 0.35332 (AC-FT) VOLUME * * * OUTFLOW (CFS) 45.98 45.98 47.63 47.47 47.02 46.99 46.98 46.97 46.97 46.96 46.95 46.95 46.90 46.89 * 46.93 46.91 46.87 46.86 46.85 46.84 46.82 46.80 46.79 46.83 46.78 46.77 46.76 46.75 46.74 46.88 46.81 46.77 (FEET) ELEV * 00.00 0.01 1.00 1.01 * **************** * INFLOW (CFS) ł * ROUTE RESERVOIR * * 0.80 2.40 3.20 4.00 5.59 6.39 7.19 8.79 8.79 9.59 11.39 11.99 11.99 11.99 12.79 13.59 14.39 15.98 16.78 00.00 1.60 17.58 18.38 19.18 19.98 20.78 21.58 22.38 23.18 23.98 24.78 (HRS) TIME -}* * دە * ന * ທ *

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HYDROGRAPH FROM AREA POND.12

0.033300HRS

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0.1215 ACRE-FEET 1.865 HOURS BASIN AREA = 0.0037 SQ. MI. RUNOFF VOLUME = 0.60972 INCHES = PEAK DISCHARGE RATE = 1.00 CFS AT

FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 15:40:

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City of Albuquerque

Planning Department Development & Building Services Division DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title:	Building Permit #:	City Drainage #:	
DRB#: EPC#:		Work Order#:	
Legal Description:			
City Address:			
Engineering Firm:		Contact:	
Address:			
Phone#: Fax#:		E-mail:	
Owner:		Contact:	
Address:			
Phone#: Fax#:		_ E-mail:	
Architect:		Contact:	
Address:			
Phone#: Fax#:		E-mail:	
Other Contact:		Contact:	
Address:			
Phone#: Fax#:		E-mail:	
TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT CONTROL		BUILDING PERMIT APPROVAL CERTIFICATE OF OCCUPANCY	
TYPE OF SUBMITTAL:			
ENGINEER/ ARCHITECT CERTIFICATION		PRELIMINARY PLAT APPROVAL SITE PLAN FOR SUB'D APPROVAL	
	SITE PLAN FOR BLDG. PERMIT APPROVAL		
CONCEPTUAL C & D DI AN		APPROVAL	
GRADING PLAN		SIA/ RELEASE OF FINANCIAL GUARANTEE	
		FOUNDATION PERMIT APPROVAL	
DRAINAGE REPORT	GRADING P	GRADING PERMIT APPROVAL	
CLOMR/LOMR	SO-19 APPR	SO-19 APPROVAL	
TRAFFIC CIRCUITATION LAVOUT (TOL)		RMIT APPROVAL	
		PAD CERTIFICATION	
EROSION & SEDIMENT CONTROL PLAN (ESC)	WORK ORDE		
	CLOMR/LON	/IK	
OTHER (SPECIFY)	PRE-DESIGN	MEETING	
	OTHER (SPE	ECIFY)	
IS THIS A RESUBMITTAL?: Yes No			
DATE SUBMITTED:By: _			

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ____



LOMAS MANZANO DAY SU-2 OFF SCHOO R CHACON HUNHN |||| VICINITY MAP ZONE ATLAS: J-13-Z

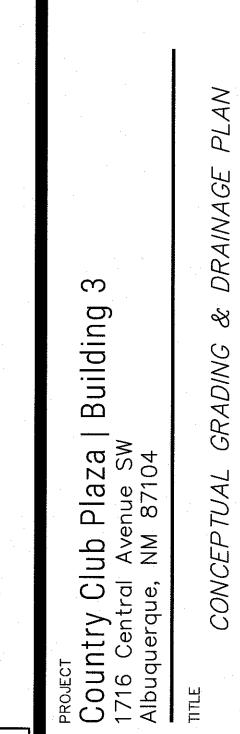
BENCHMARK

ACS CONTROL STATION "17-J14" N= 1488866.762 E= 1519149.317 Z= 4957.484 NEW MEXICO STATE PLANE, CENTRAL ZONE G-G= 0.9996833611 DELTA ALBUA - 0073'50" 00 DELTA-ALPHA= -0013'59".00 NAD 1983/NAVD 1988

LEGEND

× 00,00	EXISTING SPOT ELEVATION
5135-	EXISTING CONTOUR
	EXISTING WATER WELL
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(S)	EXISTING GOT WIRL EXISTING SAS MH
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●00.00	NEW SPOT ELEVATION SWALE
00.00	NEW CONTOUR ELEVATION
S	EXISTING SEWER MANHOLE
Go	EXISTING GAS METER
₩v W	EXISTING WATER VALVE
60	EXISTING CLEANOUT
•	EXISTING UTILITY POLE
(IN)	EXISTING MONITORING WELL
\odot	EXISTING WATER METER
	EXISTING CURB
[0]	NEW WATER METER
	NEW RETAINING WALL
A	BASIN A
(\mathfrak{G})	BASIN B
	BASIN BOUNDARY
52.53	TOP OF CURB
52.03	BOTTOM OF CURB
●52.00	NEW FLOW LINE, SPOT ELEVATION
	NEW SWALE
•51.60±	EXISTING ELEVATION
	EXISTING DRIVEWAY CUT





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n –

MULLEN HELLER ARCHITECTURE 1718 CENTRAL AVE SW | STE. D ALBUQUERQUE, NM | 87109

P | 505.268.4144

F | 505.268.4244

JOB NUMBER

PROJECT MGR

DRAWN BY

DATE

PHASE

www.mullenheller.com

15-06

SEJ

MMM

SD

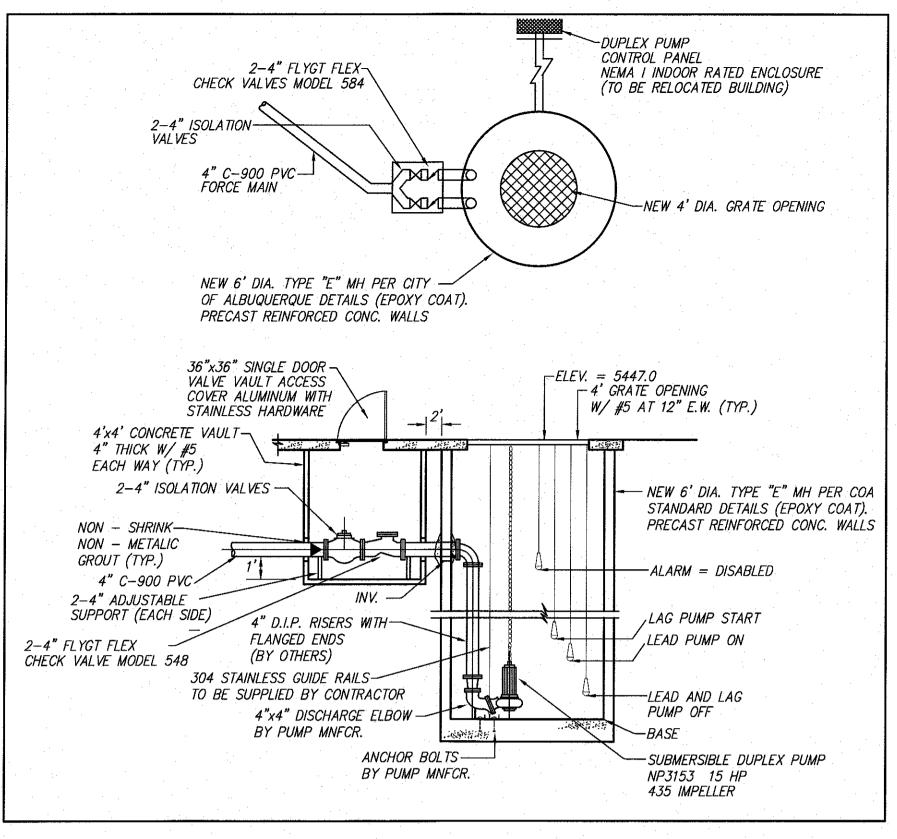
10-11-2017

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SCALE: 1'' = 30'

SHEET

OF 2



SCALE: NONE

NOTE: MAXIMUM ALLOWABLE DISCHARGE = 1 cfs = 448.83 gpm

