# CITY OF ALBUQUERQUE

October 5, 2015

Dennis Lorenz, P.E. Lorenz Design & Consulting 2501 Rio Grande Blvd. NW Suite A Albuquerque, New Mexico 87107

RE: Anthea – 4<sup>th</sup> and Granite NW
330 Granite NW

Recuest Permanent C O Acc

Request Permanent C.O. - Accepted Engineers Stamp Date 9/12/14 (J14D171)

Certification Dated: 8/28/15

Dear Mr. Lorenz,

Based on the Certification received 8/31/2015, the site is acceptable for permanent release of Certificate of Occupancy by Hydrology.

If you have any questions please contact me at 924-3985 or Totten Elliott at 924-3982.

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov TE/SB C: File

Sincerely,

Shahab Biazar, P.E.

City Engineer

Planning and Development Services

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 04/2009)

DRB# 14-DRB-70196 EPC#: NA WORK ORDER#: NA  LEGAL DESCRIPTION: LOT 5A, BLOCK C, DURNA & ALEXANDER ADDN and LOT 2, BLOCK C, HOMESTEAD & GARDENSPOT ADDN  SINGHERING FIRM: LORENZ DESIGN & CONSULTING CONTACT: DENNIS LORENZ ADDRESS: 2501 RIO GRANDE BLVD. NW SUITE A PHONE: 888-6088  CITY, STATE: ALBUQUERQUE, NEW MEXICO ZIP CODE: 87.104  OWNER: CONSTRUCT SOUTHWEST CONTACT: BILL SMITH ADDRESS: 333 RIO RANCHO BLVD. NE PHONE: 891-3695  CITY, STATE: RIC RANCHO, NEW MEXICO ZIP CODE: 87.123  ARCHITECT: RICK BENNETT ARCHITECTS CONTACT: R. BENNETT ADDRESS: 1104 PARK AVENUE SW PHONE: 242-1859  CITY, STATE: ALBUQUERQUE, NEW MEXICO ZIP CODE: 87.103  SURVEYOR: FEIRRO & COMPANY CONTACT: R. FIERRO ADDRESS: 2929 COORS NW PHONE: 352-8930  CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87.120  CONTRACTOR: CONSTRUCT SOUTHWEST CONTACT: BILL SMITH ADDRESS: 333 RIO RANCHO BLVD. NE PHONE: 891-3695  CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87.120  CONTRACTOR: CONSTRUCT SOUTHWEST CONTACT: BILL SMITH ADDRESS: 333 RIO RANCHO BLVD. NE PHONE: 891-3695  CITY, STATE: RIO RANCHO, NEW MEXICO ZIP CODE: 87.123  TYPE OF SUBMITTAL: CHECK TYPE OF APPROVAL SOUGHT: DRAINAGE PLAN RESUBMITTAL DRAINAGE PLAN RESUBMITTAL SIA/FINANCIAL GUARANTEE RELEASE PRELIMINARY PLAT APPROVAL CONCEPTUAL G & D PLAN SECTION FINAL PLAT APPROVAL CONCEPTUAL G & D PLAN SECTION FINAL PLAT APPROVAL CHERMIT APPROVAL CONCEPTUAL G & D PLAN SECTION FINAL PLAT APPROVAL CERTIFICATE OF OCCUPANCY (FERM) CHECK TYPE OF COCUPANCY (FERM) CHECK TYPE OF COPY PROVAL CHERTIFICATION LAYOUT CHERT STORM COPY PROVAL CHERTIFICATION LANGE PROVAL CHERTIFICATION LAND COPY PROVAL		ANTHEA – 4 <sup>th</sup> at GRANITE	NW	ZONE MAP:	J-14/D171
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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.

# CITY OF ALBUQUERQUE

September 9, 2015

Dennis Lorenz, P.E. Lorenz Design & Consulting 2501 Rio Grande Blvd. NW Suite A Albuquerque, New Mexico 87107

RE: Anthea  $-4^{th}$  and Granite NW

330 Granite NW

Request 30 Day Temporary C.O. - Accepted Engineers Stamp Date 9/12/14 (J14D171)

Certification Dated: 8/28/15

Dear Mr. Lorenz,

TE/CC

C: File

Based on the Certification received 8/31/2015, the site is acceptable for 30 Day Temporary release of Certificate of Occupancy by Hydrology.

If you have any questions please contact me at 924-3985 or Totten Elliott at 924-3982.

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

Sincerely,

Rite Harmon, P.E.

Senior Engineer, Planning Department

Planning Department

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET

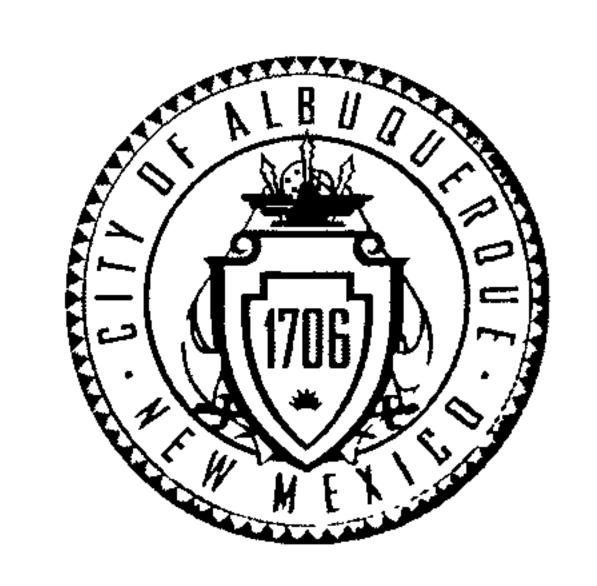
(REV 04/2009)

PROJECT TITLE: <u>ANTHEA – 4<sup>th</sup> at GRANITE N</u> DRB#: <u>14-DRB-70196</u> EPC#:	NA ZONE MAP: J-14/D171 NA WORK ORDER#:NA
LEGAL DESCRIPTION: LOT 5A, BLOCK C, DURNA	A & ALEXANDER ADDN and TEAD & GARDENSPOT ADDN
CITY ADDRESS: 330 GRANITE NW	
ENGINEERING FIRM: LORENZ DESIGN & CONSUMER ADDRESS: 2501 RIO GRANDE BLVD. N. CITY, STATE: ALBUQUERQUE, NEW MEX	W SUITE A PHONE: 888-6088
OWNER: CONSTRUCT SOUTHWEST ADDRESS: 333 RIO RANCHO BLVD N	
CITY, STATE: <u>RIO RANCHO, NEW MEXIC</u>	
ARCHITECT: RICK BENNETT ARCHITECT  ADDRESS: 1104 PARK AVENUE SW  CITY, STATE: ALBUQUERQUE, NEW MEX	PHONE: 242-1859
SURVEYOR: FEIRRO & COMPANY  ADDRESS: 2929 COORS NW  CITY, STATE: ALBUQUERQUE, NM	CONTACT: R. FIERRO PHONE: 352-8930 ZIP CODE: 87120
CONTRACTOR: CONSTRUCT SOUTHWEST ADDRESS: 333 RIO RANCHO BLVD N CITY, STATE: RIO RANCHO, NEW MEXIC	EPHONE: <u>891-3695</u>
TYPE OF SUBMITTAL:  DRAINAGE REPORT  DRAINAGE PLAN 1st SUBMITTAL  DRAINAGE PLAN RESUBMITTAL  CONCEPTUAL G & D PLAN  GRADING PLAN  EROSION CONTROL PLAN  XX 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  BUILDING PERMIT APPROVAL  CERTIFICATE OF OCCUPANCY (PERM)  XX CERTIFICATE OF OCCUPANCY (TEMP)  GRADING PERMIT APPROVAL  PAVING PERMIT APPROVAL  WORK ORDER APPROVAL  GRADING CERTIFICATION  OTHER SPECIFICATION
WAS A PRE-DESIGN CONFERENCE ATTENDED:  YES  NO COPY PROVIDED	ALIG 3 1 2015 ALIG 2 6 2015
DATE SUBMITTED: 8-28-2015	LANB PEVELOPMENT SECTION LAND DEVELOPMENT SECTION  LANB PEVELOPMENT SECTION  DENNIS A. LORENZ

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.

# CITY OF ALBUQUERQUE



September 15, 2014

Mr. Dennis Lorenz Lorenz Design & Consulting Suite A 2501 Rio Grande Blvd NW Albuquerque, NM 87104

Re: Anthea – 4<sup>th</sup> at Granite

Grading and Drainage Plan

Engineer's Stamp Date 9-12-14 (J14D171)

Dear Mr. Lorenz,

Based upon the information provided in your submittal received 9-12-14, the above referenced plan is approved for Building Permit and SO#19 Permit. This permit is required for construction within City Right of Way. A copy of this approval letter must be on hand when applying for the Excavation Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

PO Box 1293

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

If you have any questions, you can contact me at 924-3994.

Albuquerque

New Mexico 87103

www.cabq.gov

Sincerely,

Amy L. D. Niese, P.E. / Senior Engineer, Hydrology

Planning Department

C: e-mail

TASON RODNIGUEZ ANTONNETTE BAZDONADO

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 04/2009)

PROJECT TITLE: <u>ANTHEA – 4<sup>th</sup> at GRANITE</u>	NW	ZONE MAP:	J-14/D171
DRB#: <u>14-DRB-70196</u> EPC#:	NA	WORK ORDER	#: <u>NA</u>
LEGAL DESCRIPTION: LOT 5A, BLOCK C, DURN	IA & ALEXANDER	ADDN and	<del></del>
LOT 2, BLOCK C, HOMES	STEAD & GARDE	NSPOT ADDN	
CITY ADDRESS: 330 GRANITE NW			
ENGINEERING FIRM: LORENZ DESIGN & CONS	ULTING	CONTACT: DE	NNIS LORENZ
ADDRESS: 2501 RIO GRANDE BLVD.		PHONE:	
CITY, STATE: <u>ALBUQUERQUE, NEW ME</u>	XICO	ZIP CODE:	37104
OWNER: CONSTRUCT SOUTHWES	<b>₹</b> T	CONTACT: BIL	LSMITH
ADDRESS: 333 RIO RANCHO BLVD I			391-3695
CITY, STATE: RIO RANCHO, NEW MEX		ZIP CODE:	
ARCHITECT: RICK BENNETT ARCHITEC	<u>CTS</u>	CONTACT: R.	BENNETT
ADDRESS: 1104 PARK AVENUE SW		<del></del>	<u>242-1859</u>
CITY, STATE: <u>ALBUQUERQUE, NEW ME</u>	XICO	ZIP CODE:	37103
SURVEYOR: THE SURVEY OFFICE		CONTACT: 0	G. MAPLES
ADDRESS: 333 LOMAS NE	<del> </del>	<del></del> -	998-0303
CITY, STATE: <u>ALBUQUERQUE, NM</u>		ZIP CODE:	37102
CONTRACTOR: CONSTRUCT SOUTHWES	ST	CONTACT: BIL	L SMITH
ADDRESS: 333 RIO RANCHO BLVD I			391-3695
CITY, STATE: RIO RANCHO, NEW MEX		ZIP CODE: 8	
TYPE OF CURNITEAL.			OLICUT.
TYPE OF SUBMITTAL: DRAINAGE REPORT		E OF APPROVAL S FINANCIAL GUARA	
DRAINAGE PLAN 1 <sup>st</sup> SUBMITTAL		LIMINARY PLAT AF	
DRAINAGE PLAN RESUBMITTAL		EV. PLAN FOR SU	
CONCEPTUAL G & D PLAN		EV. FOR BLDG. PE	
GRADING PLAN		TOR PLAN APPRO	
EROSION CONTROL PLAN	FINA	L PLAT APPROVA	<u>L</u>
ENGINEER'S CERT (HYDROLOGY)	FOU	NDATION PERMIT	APPROVAL
CLOMR/LOMR	XBUIL	DING PERMIT APP	PROVAL
TRAFFIC CIRCULATION LAYOUT		TIFICATE OF OCC	•
ENGINEER'S CERT (TCL)		TIFICATE OF OCC	` `
ENGINEER'S CERT (DRB SITE PLAN)		DING PERMIT APP	
OTHER (SPECIFY)		ING PERMITAPER	
		RK ORDIN APPRO	
	<del></del>	DING CERTIFICAT ER (SPECIFY) SEP	
			79 Z 2014
WAS A PRE-DESIGN CONFERENCE ATTENDED:			
YES		LAND DEVEL	OPMENT SECTION
NO			
COPY PROVIDED			
DATE SUBMITTED: 9-12-2014	BY:	DENNIS A. LOF	RENZ
<del></del>	<del></del>		

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:

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Date of Plans - Elee Sub 11NV Sorde 17 - Met



September 12, 2014

Amy L. Niese, PE Senior Engineer - Hydrology Section Development and Building Services City of Albuquerque Plaza Del Sol Albuquerque, New Mexico 87102

SUBJECT: ANTHEA – 4<sup>TH</sup> AT GRANITE (J14/D171)

14 DRB 70196 PROJECT 1010103

Dear Amy:

Submitted herewith for approval are two (2) copies of the revised Grading and Drainage Plan and Supplemental Calculations. The plan has been revised to address the comments listed in your letter dated September 11, 2014. Specifically, the following revisions have been made to the Plan:

- 1. First flush calculations are revised documenting the required and proposed ponding volumes. The first flush ponding areas are limited to those landscaped areas that receive runoff from the paved parking lot. As shown by the calculations, we fall short by approximately 300 cubic feet of volume, however we providing ponding to the maximum extent possible given the site conditions.
- 2. The storm drain from the building roof drainage system has been re-graded to provide additional cover.
- 3. Other minor corrections were made per our telephone conversation.

Thank you for your assistance. If you have any questions, please call me.

Sincerely,

LORENZ DESIGN & CONSULTING, LLC

Dennis A. Lorenz, PE

P\14-009\AN09122014

# SUPPLEMENTAL CALCULATIONS ANTHEA FOURTH @ GRANITE

ALBUQUERQUE, NEW MEXICO

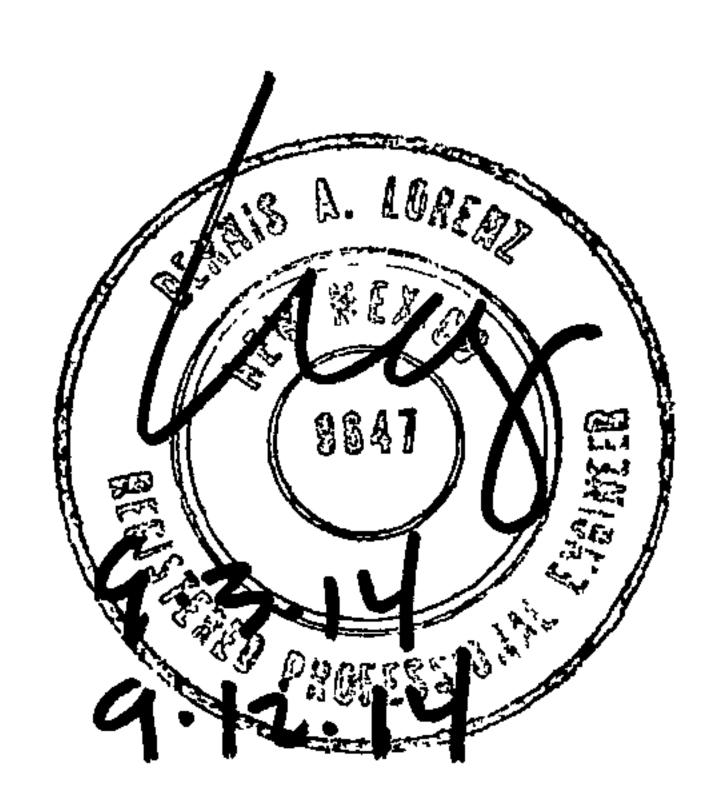
Prepared For:

Construct Southwest, LLC 333 Rio Rancho Drive Suite 104 Rio Rancho, New Mexico 87124

Prepared by:



September 2014





PROJECT PAGE DATE 9.3.14 PAGE 1

(1) FRAT FLUSSIA

GOTT PERCENTILE BEPTH = 0.44"
LESS INITIAL ARGOTTE = 0.10"
RETAINED DEPTH = 0.34"

POM REGULETURENT = AP 80.34"

8 889 UF

O volume provided. Exhibit

MUET 1 = 315 4 = 8 0.65 = 204.75 ef

2 : 5405F & 0.33'2 178.20

3 = 627 SF × 0.33 = 206.91

TOTAL = 589.86 CF

7300 OF SHOW FOUL HOWEVER PLAN MEETS SENINANCE TO MAXIMUM EXTENT TECHNICAMY FEASIBLE.

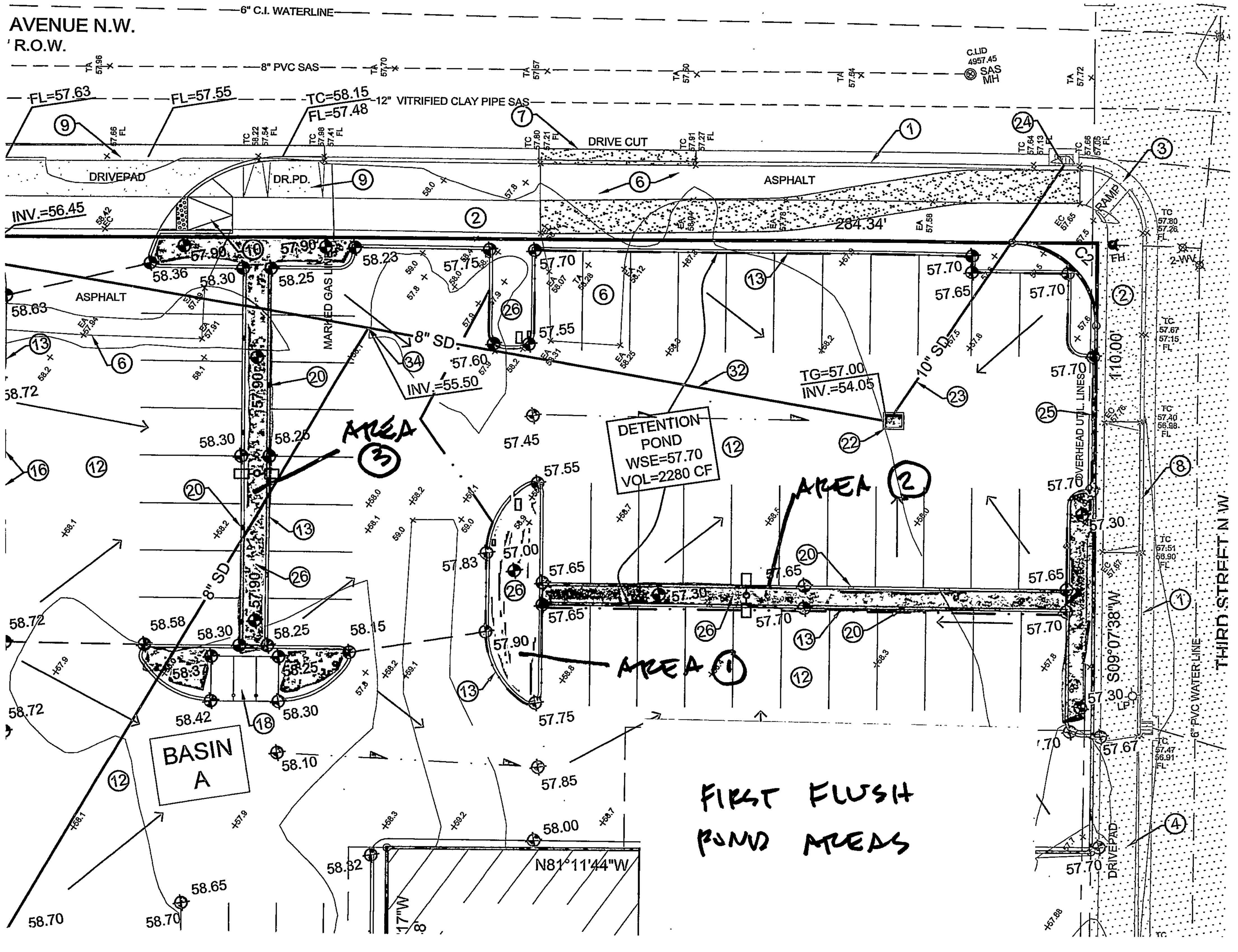
2) 1054 475mm 04MM

TOTAL ROOF PREA = 11382 4F

1/2 A = 5691 4F

9=4.10 cm apr = 1.23 cm

の四つこのして





DATE GOBOL PAGE 2

MANNAGO"

M = 0.013 4° 1°58° (PEM PLAN)

20 Dupy = 1.52 UPS > Dios

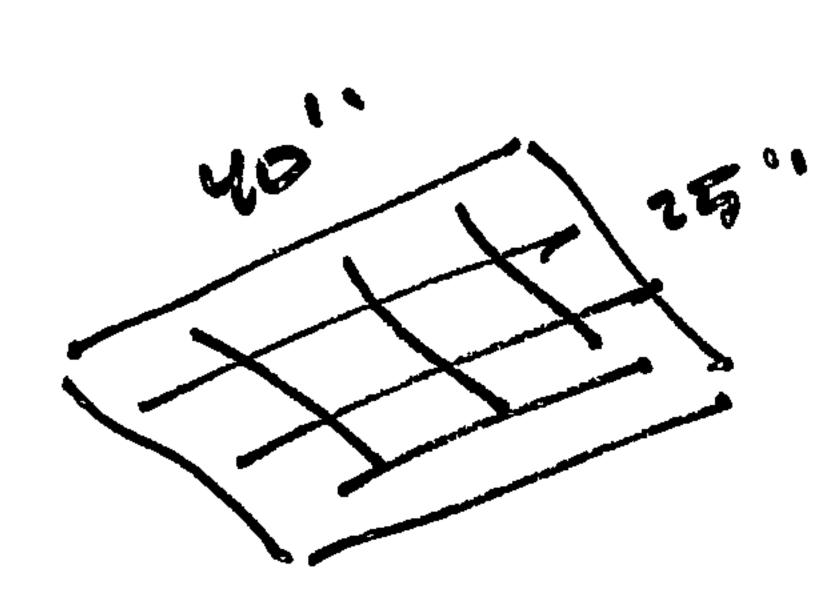
STORM INLET

1212MUS THE 'N' GINGLE IMET Populu "A".

0100° 2.62 456

CAPBALL TY · Check

WERE



Q = Cllar

6=2.5 しつりつい = 10.83

ひっ 3.62 とそら

· CHECK FOR H: 213 = 0.09



(3) (6) CHECK MY OPZIFACE

Q = CA JEYN (20.6)

A - OPEN APEA

= 4.31 4F

LET M: 0.2'

(4) 400 phone 101 to punche 101

41TE 1014CHG CHUITED TO 2.75 CFG/AC

DAMEN = 0.86 AC x 2.75 = 2.34 CFG

CE44 PAMIN (F) = 0.14

DONT PROVINTE 101. = 2.22 CFG

SHOWLE TO 2.22 UPS MAY

A CHECK PIPE FLOW

BY MANNINGS

0= 1.49 AR<sup>213</sup> 5<sup>12</sup>

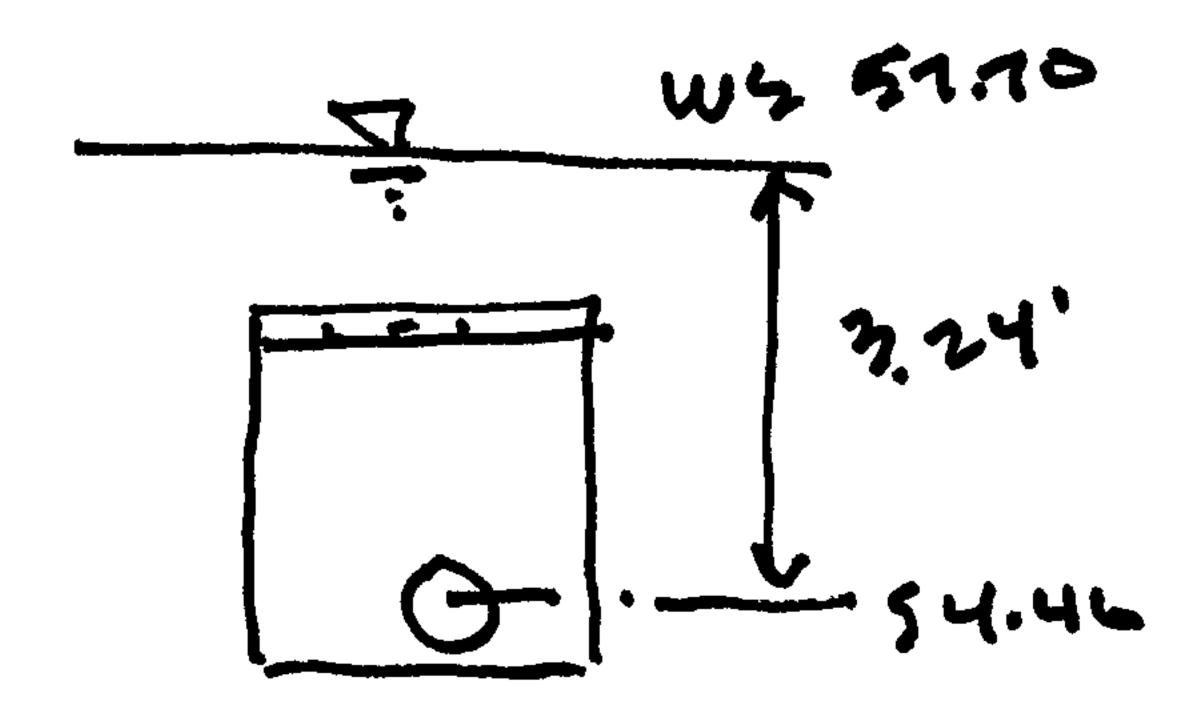
To Ac 0.555 5F (10")

R:

40 Qost: 2.19 JFS / 5= 1.60° (10 (PLAN))



# (4) (B) CHECK INLET WARM L



my oriface: 2= CA, 24h

C=0.6 A=0.554= (10") h=3.24

Ma=4.8 cfs 7 amou # 4445tem Limited TO 2.19 cfs My Pipe FLOW

(5) 5PILWAY

PROVING OVERFURN SPINNING FUR 2100 SHOWN OUTLET FAIL

Q100 PMMN(A) = 3.62 UFS

7.0.

Q= しいいろした。ころがはころが、しょり、こう

(b) possible

METERIAN POM RESULTS FROM
UMITIMS SITE MISCHES TO 2.75 UTS (AC

PUNSFF WILL POM OUTH D.I. IN
PMULIUM WT TO POPTH OF 0.7 FT

APILLWAY EVEL & 57.70

BI GRATE & 57.00

pom nouve:

51.70 6512 5F 51.60 5F

=> 4000 AYMU FOR PORM POUTING

QOUT = 2.14 UFS

WSE = 51.51

```
AHYMO PROGRAM (AHYMO-S4)
                                             - Version: S4.01a - Rel: 01a
        RUN DATE (MON/DAY/YR) = 09/08/2014
        START TIME (HR:MIN:SEC) = 14:21:30 USER NO.= AHYMO_Temp_User:20122010
        INPUT FILE = P: 14-009^{-} 4th & Granite\Drainage\ANTHEA.DAT
ANTHEA
                           PROJECT HYDROLOGY
************************
                  TIME=0.0 PUNCH CODE=0
START
                  TYPE=1 RAIN QUARTER=0.0 RAIN ONE=2.01
RAINFALL
                  RAIN SIX=2.35 RAIN DAY=2.75 DT=0.03333 HRS
              6-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE AREAS (NM & AZ) - D1
              DT = 0.033330 \text{ HOURS}
                                        END TIME =
                                                       5.999400 HOURS
                0.0000
                       0.0015
                                      0.0046
                                              0.0063
                              0.0030
                                                             0.0099
                                                      0.0080
                0.0117
                       0.0138
                                      0.0180
                               0.0159
                                              0.0226
                                                      0.0272
                                                             0.0321
                       0.0424
                               0.0480
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                                              0.0595
                                                      0.0654
                0.0372
                                                             0.0713
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                               0.0904
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                                              0.1044
                                                      0.1124
                0.0776
                                                             0.1204
                0.1340
                       0.1534
                               0.1727
                                              0.2246
                                       0.1987
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                                                             0.2921
                               0.4374
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                       0.3829
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                                       1.6746
                                              1.7448
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                                      2.0208
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                                              2.1529
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                                       2.1879
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                2.2072
                       2.2095
                               2.2118
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                                              2.2163
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                                                             2.2206
                                      2.2287
                2.2227
                       2.2247
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                                              2.2307
                                                      2.2326
                                                             2.2345
                       2.2382
                               2.2399
                2.2363
                                      2.2417
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                                                             2.2469
                       2.2502
                2.2485
                               2.2518
                                      2.2534
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                                                      2.2565
                2.2596
                       2.2610
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                                      2.2640
                                              2.2654
                                                      2.2668
                                                             2.2682
                2.2697
                       2.2710
                               2.2724
                                      2.2738
                                              2.2751
                                                      2.2765
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                       2.2804
                               2.2817
                                       2.2830
                                              2.2843
                                                      2.2856
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                2.2791
                       2.2893
                               2.2905
                                      2.2917
                2.2881
                                              2.2929
                                                      2.2941
                                                             2.2953
                                      2.3000
                               2.2988
                                              2.3012
                2.2965
                       2.2977
                                                      2.3023
                                              2.3090
                       2.3057
                               2.3068
                                      2.3079
                                                      2.3100
                2.3045
                                                             2.3111
                       2.3132
                                      2.3153
                                              2.3164
                               2.3143
                                                      2.3174
                2.3195
                                      2.3225
                       2.3205
                               2.3215
                                              2.3235
                       2.3274
                                      2.3293
                               2.3284
                                              2.3303
                                                     2.3312
                2.3264
                                                             2.3322
                               2.3350
                                      2.3359
                       2.3341
                                              2.3368
                                                     2.3377
                                                             2.3386
                2.3331
                       2.3404
                                     2.3422
                               2.3413
                                              2.3431 2.3440
                2.3395
                                                             2.3448
                       2.3466 2.3474 2.3483
                                              2.3491 2.3500
                2.3457
* DEVELOPED SITE - 0.86 ACRES
                  ID=1 HYD NO=DEV-SITE DA=0.001344 SQ MI
COMPUTE NM HYD
                   PER A=0 PER B=6 PER C=9 PER D=85
                   TP=0.1333 HR MASS RAIN=-1
```

K=0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428 UNIT PEAK = 4.5103 CFS UNIT VOLUME = 0.9969 B = 526.28 P60 = 2.0100 AREA = 0.001142 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

K = 0.117303HR TP = 0.133300HR K/TP RATIO = 0.879990 SHAPE CONSTANT, N = 4.033584 UNIT PEAK = 0.54053 CFS UNIT VOLUME = 0.9759 B = 357.40 P60 = 2.0100 AREA = 0.000202 SQ MI IA = 0.41000 INCHES INF = 0.99800 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.0333330

PRINT HYD ID=1 CODE=20

### HYDROGRAPH FROM AREA DEV-SITE

TIME	TIME FLOW	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
5.333	0.000	0.0	1.333	1.1	2.666	0.0	4.000	0.0
5.999	0.667 0.0	0.0	2.000	0.6	3.333	0.0	4.666	0.0

RUNOFF VOLUME = 1.95278 INCHES = 0.1400 ACRE-FEET PEAK DISCHARGE RATE = 3.96 CFS AT 1.500 HOURS BASIN AREA = 0.0013 SQ. MI.

\* DEVELOPED BASIN A - 0.82 ACRES

COMPUTE NM HYD

ID=2 HYD NO=DEV-SITE DA=0.001281 SQ MI

PER A=0 PER B=6 PER C=9 PER D=85

TP=0.1333 HR MASS RAIN=-1

K = 0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428 UNIT PEAK = 4.2988 CFS UNIT VOLUME = 0.9965 B = 526.28 P60 = 2.0100 AREA = 0.001089 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.0333330

K=0.117303HR TP = 0.133300HR K/TP RATIO = 0.879990 SHAPE CONSTANT, N = 4.033584 UNIT PEAK = 0.51519 CFS UNIT VOLUME = 0.9734 B = 357.40 P60 = 2.0100 AREA = 0.000192 SQ MI IA = 0.41000 INCHES INF = 0.99800 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.0333330

PRINT HYD ID=2 CODE=20

HYDROGRAPH FROM AREA DEV-SITE

TIME	TIME FLOW	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
5.333	$0.000 \\ 0.0$	0.0	1.333	1.1	2.666	0.0	4.000	0.0
5.999	0.667 0.0	0.0	2.000	0.5	3.333.	0.0	4.666	0.0

RUNOFF VOLUME = 1.95278 INCHES = 0.1334 ACRE-FEET PEAK DISCHARGE RATE = 3.78 CFS AT 1.500 HOURS BASIN AREA = 0.0013 SQ. MI.

\* DEVELOPED BASIN B - 0.04 ACRES

COMPUTE NM HYD ID=3 HYD NO=DEV-SITE DA=0.000063 SQ MI PER A=0 PER B=6 PER C=9 PER D=85

TP=0.1333 HR MASS RAIN=-1

K=0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428 UNIT PEAK = 0.21142 CFS UNIT VOLUME = 0.9472 B = 526.28 P60 = 2.0100 AREA = 0.000054 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

K=0.117303 HR TP = 0.133300HR K/TP RATIO = 0.879990 SHAPE CONSTANT, N = 4.033584 UNIT PEAK = 0.25337E-01CFS UNIT VOLUME = 0.8775 B = 357.40 P60 = 2.0100 AREA = 0.000009 SQ MI IA = 0.41000 INCHES INF = 0.99800 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.0333330

PRINT HYD

ID=3 CODE=20

## HYDROGRAPH FROM AREA DEV-SITE

TIME	TIME FLOW	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
	0.000	0.0	0.667	0.0	1.333	0.1	2.000	0.0
	RUNOFF VO PEAK DISC	LUME = HARGE RATE	1.95278 INCHES = 0.20 CFS	= AT	0.0066 ACE 1.500 HOURS		0.0001 SQ. MI.	

<sup>\*</sup> ROUTE DEVELOPED SITE THROUGH DETENTION POND A TO EXISTING INLET

ROUTE RESERVOIR ID=4 HYD NO=POND-A-OUT INFLOW ID=2 CODE=10 OUT (CFS) STORAGE (AC-FT) ELEV (FT) 57.00 2.10 0.02617 57.35 2.19 0.05234 57.70 TIME INFLOW **ELEV** VOLUME OUTFLOW (HRS) (CFS) (FEET) (AC-FT) (CFS) 0.00 0.00 57.00 0.000 0.00 0.33 0.00 57.00 0.000 0.00 0.67 0.00 57.00 0.000 0.00 1.00 0.13 57.01 0.000 0.04 1.33 1.06 57.09 0.007 0.57 1.67 2.15 57.51 0.038 2.14 2.00 0.54 57.21 0.016 1.27 2.33 0.15 57.06 0.004 0.34 2.67 0.03 57.01 0.001 0.09 3.00 0.01 57.00 0.000 0.02 3.33 0.01 57.00 0.000 0.01 3.67 0.01 57.00 0.000 0.01 4.00 0.01 57.00 0.000 0.01 4.33 0.01 57.00 0.000 0.01 4.67 0.01 57.00 0.000 0.01 5.00 0.01 57.00 0.000 0.01 5.33 0.01 57.00 0.000 0.01 5.67 0.01 57.00 0.000 0.01 6.00 0.02 57.00 0.000 0.02 6.33 0.00 57.00 0.000 0.01PEAK DISCHARGE = 2.142 CFS - PEAK OCCURS AT HOUR 1.67 MAXIMUM WATER SURFACE ELEVATION = 57.514 MAXIMUM STORAGE = 0.0384 AC-FT

PRINT HYD

ID=4 CODE=20

## HYDROGRAPH FROM AREA POND-A-OUT

0.033330HRS

INCREMENTAL TIME=

TIME	TIME FLOW	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
5.333	0.000	0.0	1.333	0.6	2.666	0.1	4.000	0.0
	0.667	0.0	2.000	1.3	3.333	0.0	4.666	0.0

Page 4

5.999 0.0

RUNOFF VOLUME = 1.95254 INCHES = 0.1334 ACRE-FEET
PEAK DISCHARGE RATE = 2.14 CFS AT 1.667 HOURS BASIN AREA = 0.0013 SQ. MI.

FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 14:21:30

FLODIZONE IN GRANTET 3rd - AU - 1'DEPTH BUG PROTOTOD BUT PARKUG LOT? TGIVE SOP APPROVAL 3 - YES Standard HC Ramp defail? A/C-2.0 thanty Basin B correctly Thum S 1st downsport Londocepny openings also on doenheef pede - water leaves. Area counted for bondsagging & bless where flow moved to

- 19. CONSTRUCT TAN LANDSCAPE BLOCK GRADE TRANSITION KEYSTONE (OR SIMILAR) TO ACHIEVE MAX. 2' RETAINING TRANSITIONS. TERRACE AS SHOWN WHERE REQUIRED ALONG EAST AND SOUTH PROPERTY LINES. CONTRACTOR TO COORDINATE MATERIAL WITH ARCHITECT. SEE CG—501 FOR ADDITIONAL INFORMATION.
- 20. DASHED LINE REPRESENTS EXTENTS OF EXTENDED STEMWALL (GRADE OUTSIDE BLDG. > 6" BELOW F.F.). SEE ARCHITECTURAL.
- 21. PROVIDE 1' WIDE CURB OPENING AT FLOWLINE ELEVATION SHOWN.

# S.O.19: NOTICE TO CONTRACTORS

AN EXCAVATION / CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #8. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (CALL '811') FOR LOCATION OF EXISTING UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR 4 SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC / STREET MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY 6 OF THE OWNER OF THE PROPERTY SERVED. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A APPROVAL NAME DATE INSPECTOR

SIDEWALK CULVERT (
AT THE NORTHWEST
EXISTING PUBLIC STOLANE.

A PORTION OF NE RC TOWNE CENTER LANE ACCESS DRIVE).

ALL LANDSCAPED PAR POSSIBLE TO CAPTURE

## CALCULATIONS:

Based on Drainage
Section 22

ON-SITE CALCUI

AREA OF SITE:

406

## DEVELOPED FLOWS:

Area A =  $\frac{0}{203}$ Area C =  $\frac{406}{245}$ 

 $\frac{\text{Area D}}{\text{Otal Area}} = \frac{345}{40604}$ 

On-Site Weighted Excess P<sub>1</sub>
Weighte

On-Site Volume of Runoff:

On-Site Peak Discharge Rate For Precipitation Zc2

 $Q_{pA} = 1.56$ 

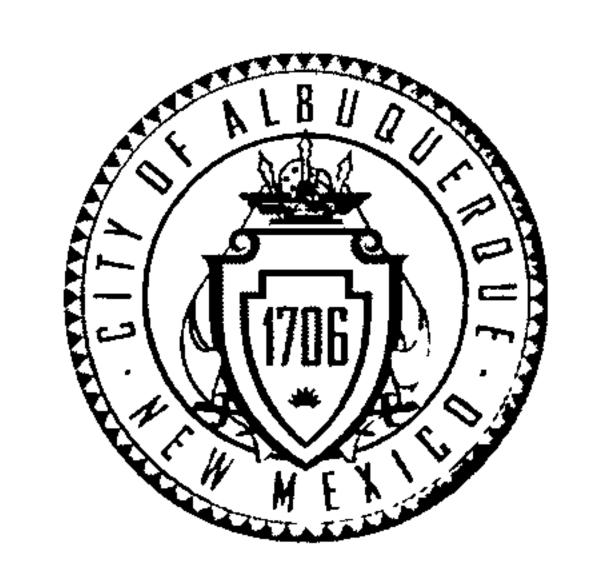
 $Q_{PB} = 2.28$ 

60

	Anthea 44 6anto 514 D/7/ 8/10/14
	Provile værete map that is legible.
	in the second of
BING ANDS	Anth 1 AD -7 water blass!
BUDS FRONT	pondu parking let WSE 57.70
	Frot Flush
	0.72 KRE 43860 SF/AC 34 IN 889 OF RETAIN
	: /2 / 2 in/FT
	Just rocating through no formal rotantion Decress 9"
	· Lepress 4
	Thou pond cales - one of knen Rue
	The state of the s
	Anthon were detail
	How much flow going out Sw affect?
	Offsete flow conung on?
	TYPE OF STOM PIPE + INLOT 22 +23
	5019 or WO
	2.75 CFS/AC .86 AC = 2.37 CFMAY
	DISCHARGE RESTRUCTOD TO 2.36 CFS
	An = .72 () = 3.36 DET.

• • • • • • • • • • • • • • • • • • •	
O= 1.49 AR <sup>2/3</sup> 51/2	,
$1.49 \frac{\pi(10)}{4(10)} + \left(\frac{10/12}{4}\right)^{2/3} \sqrt{.01}  25.96$	
ooft. oil	
A = .545	
R = .351	

# CITY OF ALBUQUERQUE



September 11, 2014

Mr. Dennis Lorenz Lorenz Design & Consulting Suite A 2501 Rio Grande Blvd NW Albuquerque, NM 87104

Re: Anthea – 4<sup>th</sup> at Granite Grading and Drainage Plan Engineer's Stamp Date 9-3-14 (J14D171)

Dear Mr. Lorenz,

Based upon the information provided in your submittal received September 3, 2014, the above referenced plan cannot be approved for Building Permit or SO19 until the following comments are addressed:

1. The First Flush calculations have a sum for the landscape areas that include all landscape area on site. However, drainage is not being directed into many of those areas. Revise the calculations to only include landscape areas where ponding is occurring. The inlet in the parking lot can be lowered and used for the First Flush also.

2. For the 8 inch storm drain on the northwest side of the building at 58.29, there is only 0.29 inches of cover. Provide more cover. Show an invert for the 8 inch storm drain connection on the south side of the building.

New Mexico 87103 If you have any questions, you can contact me at 924-3994.

7103

www.cabq.gov

PO Box 1293

Albuquerque

Amy L. D. Niese, P.E. Senior Engineer, Hydrology

Planning Department

Sincerely,

C: e-mail

# SUPPLEMENTAL CALCULATIONS ANTHEA FOURTH @ GRANITE

ALBUQUERQUE, NEW MEXICO

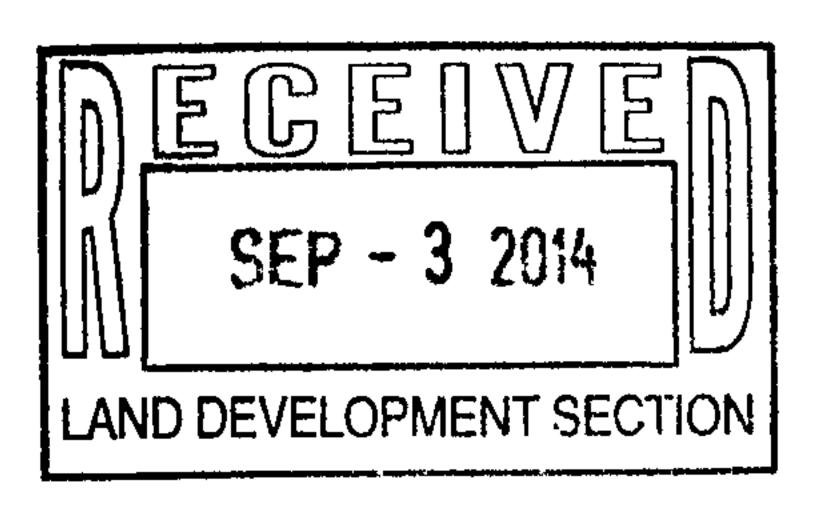
Prepared For:

Construct Southwest, LLC 333 Rio Rancho Drive Suite 104 Rio Rancho, New Mexico 87124

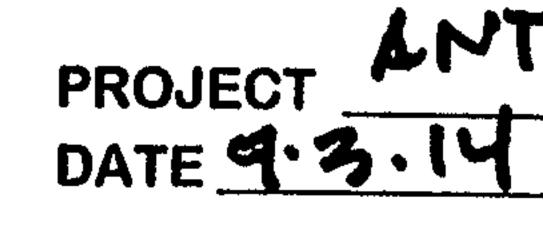
Prepared by:



September 2014







PROJECT PAGE

# DESIGN & CONSULTING, LLC Civil Engineering | Construction Management

# FIRST FLUSH

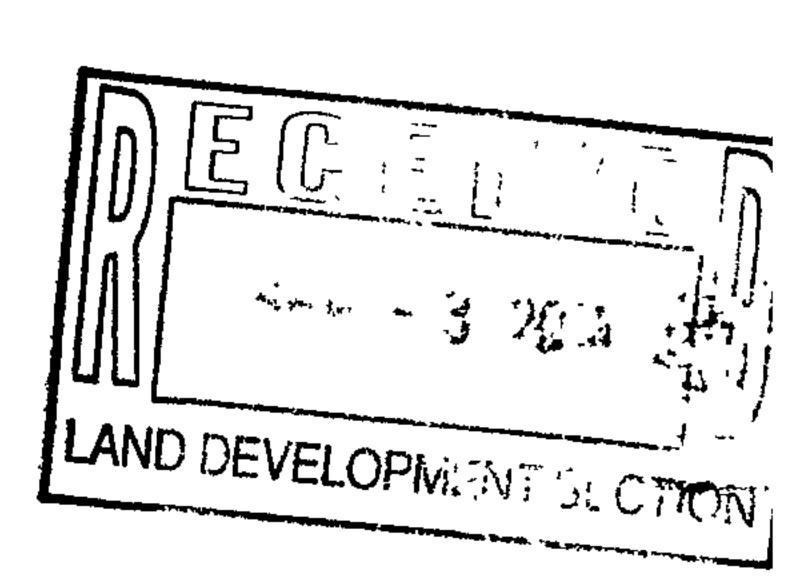
90 TH PERCENTILE BEPTH = 0.44 LESS INITIAL ARGOTTE = U.10" DOPTH e 0.34" RETANLEN

FOM REOSIREMENT = APX0.34" = 889 UF

hom bronna AREA LAMGE = 6098 SF AU LAMSCAPIME 0.25'(3") BELOW AND LEPANE pour vol « 6098 (0.25')=15254 1720

(2) 1000 F 470 MM DAMN

TOTAL ROOF AKED = 11382 4F 1/2 A = 5691 4F 9c = 4.10 cfs



PROJECT ANTHEA

DATE 9-3-14 PAGE 2

(2) wt.

048 8 IN UH PUC 50

MY WANMAUG: N=0.013

G=1.77% (PEN PLAN)

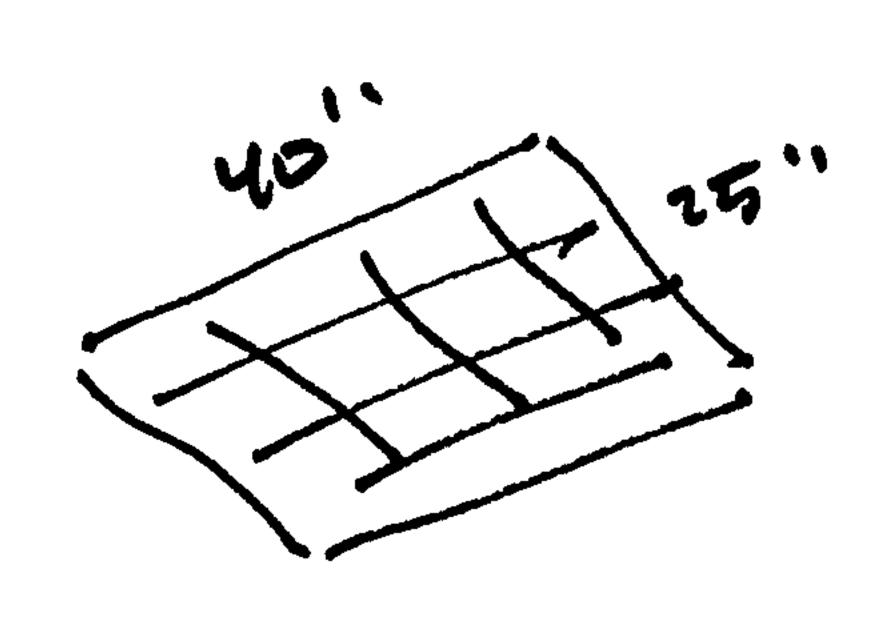
= 1.61 cfs > Q cost

3 Gropm INLET

MPK. B. GINGLE IMET BUMNS
BYMIN A.

alove 3.62 CFG.
CHECK CAPACITY

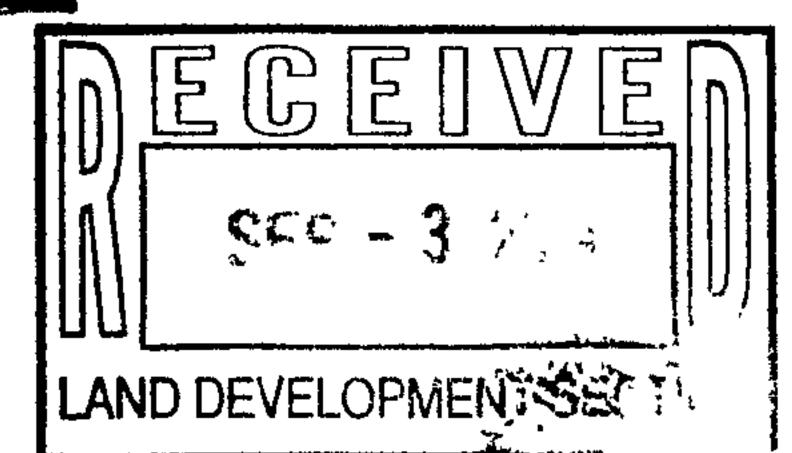
(A) WER

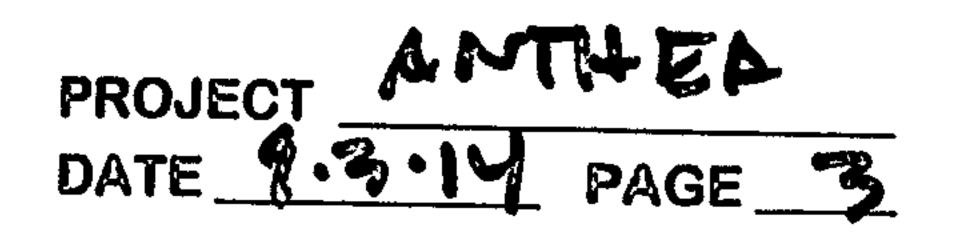


Q= CLH<sup>31</sup>2 C= 2.5 L= 130'' = 10.83 Q= 3.62 CFS

· CHECK FOR H.

H=[0/cL]<sup>213</sup> = 0.09'





LAND DEVELOPMENT SECTION



(3) (6) CHEUR MY OPEIFACE

.Q = CA / 24h

C = C. 6

A = OPEN APEA

= 4.781 4F

LET M = 0.2'

4) 400 phone 131 TO purule 131

41TE 1314CHG CIMITED TO 2.75 CFG/AC

Denow = 0.86 AC x 2.75 = 2.34 CFG

CE44 Pepain (B) = 0.14

JOUT PRIVATE 131. = 2.22 CFG

SHOULD TO 2.22 UPS MAX

(A) CHECK PIPE FLOW

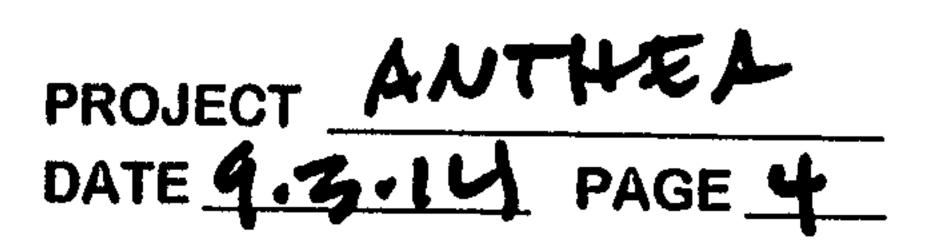
BY MANNILLYS

0 = 1.49 AR<sup>213</sup> 5<sup>12</sup>

A = 0.55 5F (10")

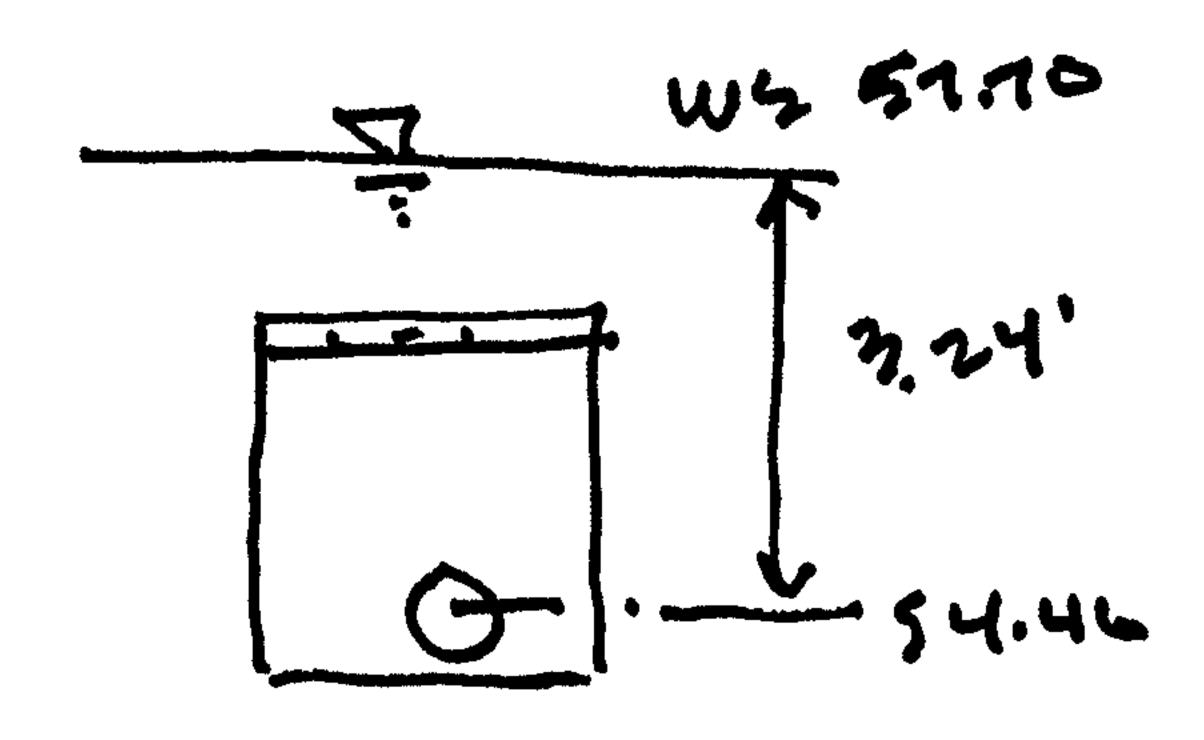
R:

30 GEF - 3 234





# (4) (B) CHECK INVET WATER L



my oriface: 2= CA, 24h

6=0.6 A=0.554F (10") M=3.74

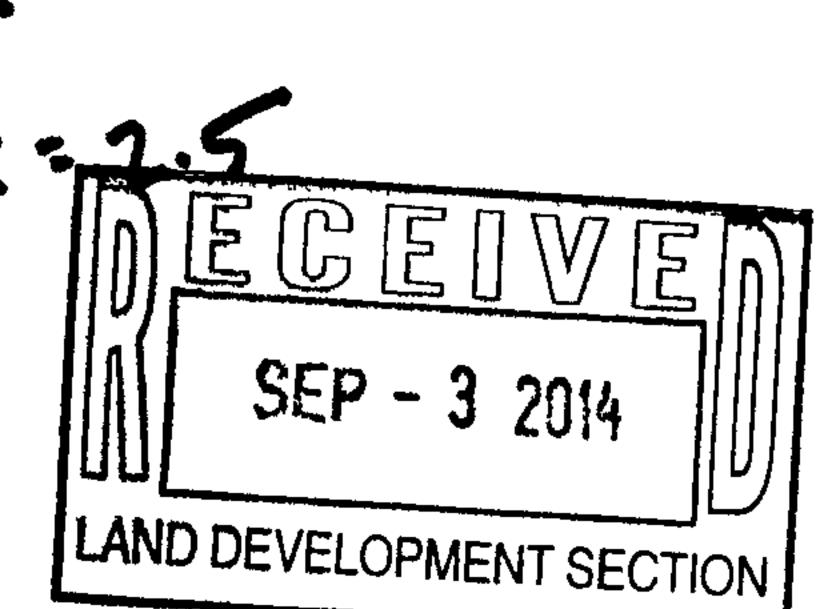
ma=4.8 cfs 7 amou 4 444tem Limites
TO 2.19 cfs My

(5) SPILWAY

PROVING OVERFUR SPILLUMY FUL FLOW SHOWN OUTLET FAIL

Q100 PAMN(B) = 3.62 UFS

Q= しいけっしょうしょうしょうしょうしょうしょうしょう





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PROJECT ANTHEADATE 9.314 PAGE 5

(b) possible volume

METERIAN POM RESULTS FROM
UMITIMS SITE 1319CHG TO 7.75 GEGLAC

PUNSFF WILL POM OUT D.I. IN
PMULIUM WT TO POPTH UF 0.7 FT

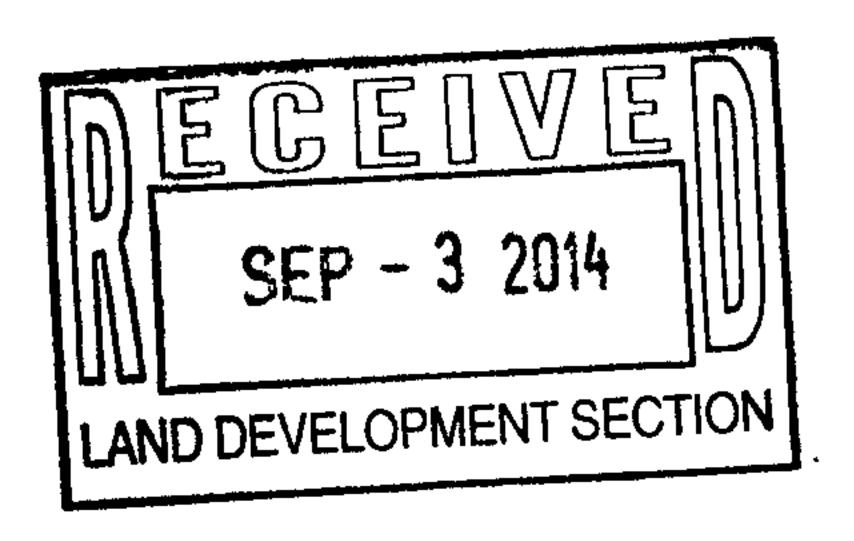
SPILLWMY EVEN & 57.70

11 GRATE & 57.00

pom vouve:

51.70 6512 5F 51.80

100 = 2280 CF



```
- Version: S4.01a - Rel: 01a
          AHYMO PROGRAM (AHYMO-S4)
               RUN DATE (MON/DAY/YR) = 09/08/2014
               START TIME (HR:MIN:SEC) = 14:21:30 USER NO.= AHYMO_Temp_User:20122010
               INPUT FILE = P: 14-009 - 4th & Granite Drainage ANTHEA.DAT
      ANTHEA
                                   PROJECT HYDROLOGY
                          TIME=0.0 PUNCH CODE=0
      START
                          TYPE=1 RAIN QUARTER=0.0 RAIN ONE=2.01
      RAINFALL
                          RAIN SIX=2.35 RAIN DAY=2.75 DT=0.03333 HRS
                     6-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE AREAS (NM & AZ) - D1
                                                                5.999400 HOURS
                            0.033330 HOURS
                                                 END TIME =
                                                                       0.0099
                                                       0.0063
                                                               0.0080
                       0.0000
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                               0.0015
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                                                                       0.0321
                                                       0.0226
                                                               0.0272
                               0.0138
                                       0.0159
                       0.0117
                                               0.0180
                                                                       0.0713
                                                       0.0595
                                                               0.0654
                                               0.0537
                               0.0424
                                       0.0480
                       0.0372
                                                       0.1044
                                                               0.1124
                                                                       0.1204
                                               0.0974
                                       0.0904
                       0.0776
                               0.0838
                                                                       0.2921
                                                       0.2246
                                                               0.2558
                       0.1340
                                       0.1727
                                               0.1987
                               0.1534
                                                                       0.9502
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                                               0.5117
                       0.3284
                               0.3829
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                                       1.5355
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                                                               1.8147
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                                               2.0208
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                               1.9597
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                                                                       2.1661
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                       2.1089
                               2.1258
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                       2.1721
                                                                       2.2206
                                               2.2141
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                                       2.2118
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                                                       2.2307
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                                       2.2518
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DEVELO
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                                               2.3079
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                                                       2.3164
                                               2.3153
                                       2.3143
                               2.3132
                                               2.3225
                                       2.3215
PMENT SECTION
                               2.3205
     2.3322
                                                               2.3312
                                                       2.3303
                                       2.3284
                                               2.3293
                               2.3274
                       2.3264
                                                                       2.3386
    2014
                                                       2.3368
                                                               2.3377
                                       2.3350
                                               2.3359
                               2.3341
                       2.3331
                                                               2.3440
                                                       2.3431
                                               2.3422
                       2.3395
                                       2.3413
                               2.3404
                                                               2.3500
                                              2.3483
                                                      2.3491
                                      2.3474
                       2.3457
                               2.3466
      * DEVELOPED SITE - 0.86 ACRES
                          ID=1 HYD NO=DEV-SITE DA=0.001344 SQ MI
      COMPUTE NM HYD
                          PER A=0 PER B=6 PER C=9 PER D=85
                          TP=0.1333 HR MASS RAIN=-1
```

Page 1

K=0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428 UNIT PEAK = 4.5103 CFS UNIT VOLUME = 0.9969 B = 526.28 P60 = 2.0100 AREA = 0.001142 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

 $K=0.117303 \mathrm{HR}$  TP = 0.133300HR K/TP RATIO = 0.879990 SHAPE CONSTANT, N = 4.033584 UNIT PEAK = 0.54053 CFS UNIT VOLUME = 0.9759 B = 357.40 P60 = 2.0100 AREA = 0.000202 SQ MI IA = 0.41000 INCHES INF = 0.99800 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

PRINT HYD

ID=1 CODE=20

## HYDROGRAPH FROM AREA DEV-SITE

TIME	TIME FLOW	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
HRS	0.000	0.0	1.333	1.1	2.666	0.0	4.000	0.0
5.333 5.999	0.0 0.667 0.0	0.0	2.000	0.6	3.333	0.0	4.666	0.0

RUNOFF VOLUME = 1.95278 INCHES = 0.1400 ACRE-FEET PEAK DISCHARGE RATE = 3.96 CFS AT 1.500 HOURS BASIN AREA = 0.0013 SQ. MI.

\* DEVELOPED BASIN A - 0.82 ACRES

COMPUTE NM HYD ID=2 HYD NO=DEV-SITE DA=0.001281 SQ MI

PER A=0 PER B=6 PER C=9 PER D=85

TP=0.1333 HR MASS RAIN=-1

K=0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428 UNIT PEAK = 4.2988 CFS UNIT VOLUME = 0.9965 B = 526.28 P60 = 2.0100 AREA = 0.001089 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

K = 0.117303HR TP = 0.133300HR K/TP RATIO = 0.879990 SHAPE CONSTANT, N = 4.033584 UNIT PEAK = 0.51519 CFS UNIT VOLUME = 0.9734 B = 357.40 P60 = 2.0100 AREA = 0.000192 SQ MI IA = 0.41000 INCHES INF = 0.99800 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.0333330

PRINT HYD

ID=2 CODE=20

HYDROGRAPH FROM AREA DEV-SITE

TIME	TIME FLOW	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
5.333	0.000	0.0	1.333	1.1	2.666	0.0	4.000	0.0
5.999	0.667 0.0	0.0	2.000	0.5	3.333	0.0	4.666	0.0

RUNOFF VOLUME = 1.95278 INCHES = 0.1334 ACRE-FEET PEAK DISCHARGE RATE = 3.78 CFS AT 1.500 HOURS BASIN AREA = 0.0013 SQ. MI.

\* DEVELOPED BASIN B - 0.04 ACRES

COMPUTE NM HYD ID=3 HYD NO=DEV-SITE DA=0.000063 SQ MI PER A=0 PER B=6 PER C=9 PER D=85 TP=0.1333 HR MASS RAIN=-1

K=0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428 UNIT PEAK = 0.21142 CFS UNIT VOLUME = 0.9472 B = 526.28 P60 = 2.0100 AREA = 0.000054 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

K = 0.117303HR TP = 0.133300HR K/TP RATIO = 0.879990 SHAPE CONSTANT, N = 4.033584 UNIT PEAK = 0.25337E-01CFS UNIT VOLUME = 0.8775 B = 357.40 P60 = 2.0100 AREA = 0.000009 SQ MI IA = 0.41000 INCHES INF = 0.99800 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.0333330

PRINT HYD ID=3 CODE=20

#### HYDROGRAPH FROM AREA DEV-SITE

TIME	TIME FLOW	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
	0.000	0.0	0.667	0.0	1.333	0.1	2.000	0.0

RUNOFF VOLUME = 1.95278 INCHES = 0.0066 ACRE-FEET PEAK DISCHARGE RATE = 0.20 CFS AT 1.500 HOURS BASIN AREA = 0.0001 SQ. MI.

<sup>\*</sup> ROUTE DEVELOPED SITE THROUGH DETENTION POND A TO EXISTING INLET

AHYMO.OUT \* ALLOWABLE DISCHARGE IS 2.75 CFS/AC OR 2.22 OFS FOR BASIN A (10" PIPE)
\* ROUTE RESERVOIR ID=4 HYD NO=POND-A-OUT INFLOW ID=2 CODE=10 OUT (CFS) STORAGE (AC-FT) ELEV (FT) 57.00 2.10 0.02617 57.35 2.19 0.05234 57.70 TIME INFLOW **ELEV** VOLUME OUTFLOW (HRS) (CFS) (FEET) (AC-FT) (CFS) 0.00 0.00 57.00 0.000 0.00 0.33 0.00 57.00 0.000 0.00 0.67 0.00 57.00 0.000 0.00 1.00 0.13 57.01 0.000 0.04 1.33 1.06 57.09 0.007 0.57 1.67 2.15 57.51 0.038 2.14 2.00 0.54 57.21 0.016 1.27 2.33 0.15 57.06 0.004 0.34 2.67 0.03 57.01 0.001 0.09 3.00 0.01 57.00 0.000 0.02 3.33 0.01 57.00 0.000 0.01 3.67 0.01 57.00 0.000 0.01 4.00 0.01 57.00 0.000 0.01 4.33 0.01 57.00 0.000 0.01 4.67 0.01 57.00 0.000 0.01 5.00 0.01 57.00 0.000 0.01 5.33 0.01 57.00 0.000 0.01 5.67 0.01 57.00 0.000 0.01 6.00 0.02 57.00 0.000 0.02 6.33 0.00 57.00 0.000 0.01 2.142 CFS) PEAK DISCHARGE = PEAK OCCURS AT HOUR 1.67 MAXIMUM WATER SURFACE ELEVATION = 57.514 MAXIMUM STORAGE = 0.0384 AC-FT INCREMENTAL TIME= 0.033330HRS PRINT HYD ID=4 CODE=20HYDROGRAPH FROM AREA POND-A-OUT TIME FLOW TIME FLOW TIME FLOW TIME FLOW TIME FLOW HRS CFS HRS CFS HRS CFS HRS CFS HRS CFS 0.000 0.0 1.333 0.6 2.666 0.1 4.000 0.0 5.333 0.0 0.667 0.0 2.000 1.3 3.333

Page 4

0.0

4.666

0.0

5.999 0.0

RUNOFF VOLUME = 1.95254 INCHES = 0.1334 ACRE-FEET
PEAK DISCHARGE RATE = 2.14 CFS AT 1.667 HOURS BASIN AREA = 0.0013 SQ. MI.

FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 14:21:30



September 3, 2014

Amy L. Niese, PE Senior Engineer - Hydrology Section Development and Building Services City of Albuquerque Plaza Del Sol Albuquerque, New Mexico 87102

SUBJECT: ANTHEA - 4<sup>TH</sup> AT GRANITE (J14/D171)

14 DRB 70196 PROJECT 1010103

#### Dear Amy:

Submitted herewith are two (2) copies of the revised Grading and Drainage Plan. The plan has been revised to address the comments listed in your letter dated August 20, 2014. Specifically, the following revisions have been made to the Plan:

- 1. First flush calculations are provided documenting the required and proposed ponding volumes.
- 2. Supplemental Calculations are provided for the roof drainage system, drop inlet, storm drain lateral connection to the public inlet, spillway and on-site detention pond.
- 3. Standard SO19 notes and signature block is provided on the plan.
- 4. The Vicinity map and FIRM Panel have been improved.

Thank you for your assistance. If you have any questions, please call me.

Sincerely,

LORENZ DESIGN & CONSULTING, LLC

Dennis A. Lorenz, PE

P\14-009\AN09032014

(REV 04/2009)

PROJECT TITLE: <u>ANTHEA – 4<sup>th</sup> at GRANITE NW</u> DRB#: <u>14-DRB-70196</u> EPC#:	•	ZONE MAP: <u>J-14/D171</u> WORK ORDER#: NA
LEGAL DESCRIPTION: LOT 5A, BLOCK C, DURNA 8  LOT 2, BLOCK C, HOMESTE		······································
CITY ADDRESS: 330 GRANITE NW		
ENGINEERING FIRM: LORENZ DESIGN & CONSULT	ING	CONTACT: <u>DENNIS LORENZ</u>
ADDRESS: 2501 RIO GRANDE BLVD. NW		PHONE: 888-6088
CITY, STATE: <u>ALBUQUERQUE, NEW MEXIC</u>	<u>O</u> .	ZIP CODE: <u>87104</u>
OWNER: CONSTRUCT SOUTHWEST		CONTACT: BILL SMITH
ADDRESS: 333 RIO RANCHO BLVD NE		PHONE: 891-3695
CITY, STATE: <u>RIO RANCHO, NEW MEXICO</u>	<del></del>	ZIP CODE: <u>87123</u>
ARCHITECT: RICK BENNETT ARCHITECTS		CONTACT: R. BENNETT
ADDRESS: <u>1104 PARK AVENUE SW</u>		PHONE: 242-1859
CITY, STATE: <u>ALBUQUERQUE, NEW MEXIC</u>	<u>O</u>	ZIP CODE: <u>87103</u>
SURVEYOR: THE SURVEY OFFICE		CONTACT: G. MAPLES
ADDRESS: 333 LOMAS NE	<u></u>	PHONE: 998-0303
CITY, STATE: <u>ALBUQUERQUE, NM</u>	<u></u>	ZIP CODE: <u>87102</u>
CONTRACTOR: CONSTRUCT SOUTHWEST		CONTACT: BILL SMITH
ADDRESS: 333 RIO RANCHO BLVD NE		PHONE: 891-3695
CITY, STATE: <u>RIO RANCHO, NEW MEXICO</u>	<u> </u>	ZIP CODE: <u>87123</u>
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COPY PROVIDED		LAND DEVELOPMENT SECTION
DATE SUBMITTED: 9-09-2014	_ BY:[	DENNIS A. LORENZ

- 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.

(REV 04/2009)

PROJECT TITLE: <u>ANTHEA – 4<sup>th</sup> at GRANITE NW</u>	<u> </u>	ZONE MAP: <u>J-14</u>	<u>/D171</u>
DRB#: <u>14-DRB-70196</u> EPC#:	NA	WORK ORDER#:	NA
LEGAL DESCRIPTION: LOT 5A, BLOCK C, DURNA 8	& ALEXAND	DER ADDN and	
LOT 2, BLOCK C, HOMESTE	AD & GAR	RDENSPOT ADDN	
CITY ADDRESS: 330 GRANITE NW			
ENGINEERING FIRM: LORENZ DESIGN & CONSULT	ΓING	CONTACT: DENN	IS LORENZ
ADDRESS: 2501 RIO GRANDE BLVD. NW		PHONE:888	
CITY, STATE: <u>ALBUQUERQUE, NEW MEXIC</u>	<u>;O</u>	ZIP CODE: <u>871</u>	04
OWNER: CONSTRUCT SOUTHWEST		CONTACT: BILL S	MITH
ADDRESS: 333 RIO RANCHO BLVD NE		PHONE: 891-	-3695
CITY, STATE: RIO RANCHO, NEW MEXICO	)	ZIP CODE: <u>871</u>	23
ARCHITECT: RICK BENNETT ARCHITECTS	}	CONTACT: R. BE	NNETT
ADDRESS: 1104 PARK AVENUE SW		PHONE:242-	-1859
CITY, STATE: <u>ALBUQUERQUE, NEW MEXIC</u>	<u>;O</u>	ZIP CODE: <u>871</u>	03
SURVEYOR: THE SURVEY OFFICE		CONTACT: G. N	/APLES
ADDRESS: 333 LOMAS NE		·	-0303
CITY, STATE: <u>ALBUQUERQUE, NM</u>		ZIP CODE: <u>871</u>	02
CONTRACTOR: CONSTRUCT SOUTHWEST		CONTACT: BILL S	MITH
ADDRESS: 333 RIO RANCHO BLVD NE		PHONE: <u>891</u>	-3695
CITY, STATE: <u>RIO RANCHO, NEW MEXICO</u>	<u> </u>	ZIP CODE: <u>871</u>	23
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CONCEPTUAL G & D PLAN		S. DEV. FOR BLDG. PERM SECTOR PLAN APPROVA	
GRADING PLAN EROSION CONTROL PLAN		FINAL PLAT APPROVAL	
ENGINEER'S CERT (HYDROLOGY)		FOUNDATION PERMIT AP	PROVAL
CLOMR/LOMR		BUILDING PERMIT APPRO	
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ENGINEER'S CERT (TCL)		CERTIFICATE OF OCCUPA	•
ENGINEER'S CERT (DRB SITE PLAN)		GRADING PERMIT APPRO	
OTHER (SPECIFY)		PAVING PERMIT APPROV	
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		OTHER (SPECIFY)	
		M) E C	_   727     187   123   181
WAS A PRE-DESIGN CONFERENCE ATTENDED:			
YES			P - 3 2014
NO COPY PROVIDED			
			ELOPMENT SECTION
DATE SUBMITTED: <u>9-03-2014</u>	_ BY:	<u>DENNIS A. LOREN</u>	

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
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- 3. Drainage Report. Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.



#### Erin Chavez <echavez5304@gmail.com>

#### Anthea Revised Grading and Drainage Plan Submittal

2 messages

Erin Chavez <echavez5304@gmail.com>

Wed, Sep 3, 2014 at 11:28 AM

To: mortiz@cabq.gov

Monica,

Attached is the revised G&D that I will be submitting later today. Let me know when you get this.

Thanks!

Erin

2 attachments





Ortiz, Monica <mortiz@cabq.gov>

Wed, Sep 3, 2014 at 11:32 AM

To: Erin Chavez <echavez5304@gmail.com>

Thanks

#### **Monica Ortiz**

Planning Department – Transportation & Hydrology Development & Building Services Division 600 2nd St. NW, Suite 201 Albuquerque, NM 87102 t 505-924-3981

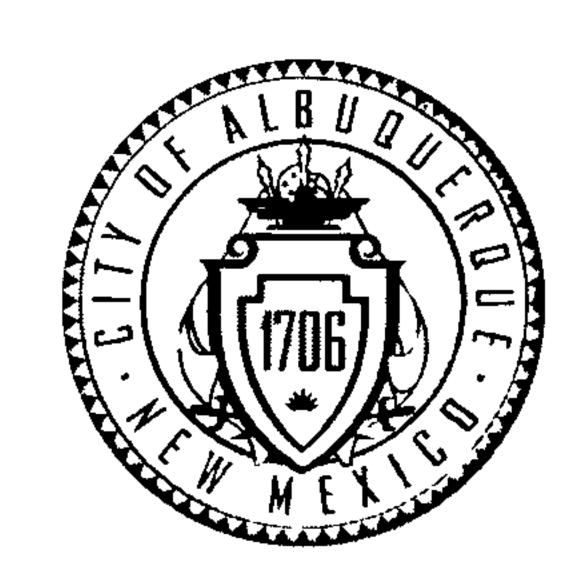
f 505-924-3864

From: Erin Chavez [mailto:echavez5304@gmail.com] Sent: Wednesday, September 03, 2014 11:29 AM

**To:** Ortiz, Monica

Subject: Anthea Revised Grading and Drainage Plan Submittal

[Quoted text hidden]



August 20, 2014

Mr. Dennis Lorenz Lorenz Design & Consulting Suite A 2501 Rio Grande Blvd NW Albuquerque, NM 87104

ROFNED SONGNITS

Re: Anthea – 4<sup>th</sup> at Granite

Grading and Drainage Plan

Engineer's Stamp Date 7-30-14 (J14D171)

Dear Mr. Lorenz,

Based upon the information provided in your submittal received July 31, 2014, the above referenced plan cannot be approved for Building Permit or SO19 until the following comments are addressed:

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

1. Your previous submittal included a conceptual design for retaining the first flush. Unfortunately, this submittal does not address the first flush. Lower the landscaped areas and provide openings in the curb. Direct as much water as possible into the proposed landscaping before going into the inlet. Per the City Drainage ordinance, the 90<sup>th</sup> Percentile Storm Event, which is 44 inches, is to be managed. Reduce 0.44 inch by the 0.1 inch for the initial impervious abstraction in Table A-6 of Section 22 of the DPM. Multiply the remaining 0.34 inch by your impervious area. This is the portion to retain.

2. Provide calculations showing the actual size of the pond, the maximum amount of flow released by the 10 inch pipe, and the amount of release by the emergency overflow. Call out the specific type of pipe and area drain.

3. Provide standard notes with signature block for SO19 on the plans. Include two copies of the plans for the S019 resubmittal.

4. Include a vicinity map that is legible.

If you have any questions, you can contact me at 924-3994.

Sincerely,

Senior Engineer, Hydrology

Any L. D. Niese, P.E.

Planning Department

(REV 04/2009)

		ANTHEA - 4 <sup>th</sup> at	<del></del>			ZONE MAP		
DRB#: <u>14-</u>	-DRB-70196	<u> </u>	EPC#:	NA		WORK ORE	DER#:	NA
LEGAL DESC	CRIPTION:	LOT 5A, BLOCK						
CITY ADDRE	ESS:	330 GRANITE					·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·	
ADD	RESS:	LORENZ DESIG 2501 RIO GRAN ALBUQUERQUE	DE BLVD. NV	/ SUITE A	P	CONTACT: PHONE: IP CODE:	888-6	088
OWNER: ADD	RESS:	CONSTRUCT S 333 RIO RANCI RIO RANCHO,	OUTHWEST O BLVD NE		(	CONTACT: PHONE: ZIP CODE:	BILL SN 891-3	/ITH 695
	RESS:	RICK BENNETT 1104 PARK AVI ALBUQUERQUE	ENUE SW			CONTACT: PHONE: ZIP CODE:	242-1	859
	RESS:	THE SURVEY O 333 LOMAS NE ALBUQUERQUE			_ _	CONTACT: PHONE: ZIP CODE:	998-0	303
	RESS:	CONSTRUCT S 333 RIO RANCI RIO RANCHO,	HO BLVD NE		F	CONTACT: PHONE: ZIP CODE:	891-3	695
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- 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



July 1, 2014

Dennis Lorenz, P.E. Lorenz Design and Consulting 2501 Rio Grande Blvd NW, Suite A Albuquerque, NM 87104

Anthea 4<sup>th</sup> and Granite, Conceptual Grading and Drainage Plan Re: **Engineer's Stamp Date 6-17-14 (J14/D171)** 

Dear Mr. Lorenz,

Based upon the information provided in your submittal received 6-17-14, the above referenced plan is approved for Site Plan for Building Permit action by the DRB, because the drainage plan is conceptually correct. The flow line elevations appear to be approximately 5 feet higher on this plan than on a different plan that listed a benchmark.

If you have any questions, you can contact me at 924-3986.

Sincerely,

Curtis Cherne, P.E.

Planning Dept.

Principal Engineer, Hydrology

PO Box 1293

Albuquerque

www.cabq.gov

New Mexico 87103

e-mail

Albuquerque - Making History 1706-2006



June 17, 2014

Curtis A. Cherne, PE
Principle Engineer - Hydrology Section
Development and Building Services
City of Albuquerque
Plaza Del Sol
Albuquerque, New Mexico 87102

SUBJECT: ANTHEA – 4<sup>TH</sup> AT GRANITE (J14/D171)

14 DRB 70196 PROJECT 1010103

Dear Curtis:

Submitted herewith is one copy of the revised Conceptual Grading and Drainage plan. The plan has been revised to address the comments listed in your letter dated June 13, 2014. Specifically, the following revisions have been made to the Plan:

- 1. The maximum discharge rate of 2.75 cfs/acre is documented on the Plan. This will be accomplished by installing a drop inlet on-site connecting to the existing public storm inlet in Granite. An 8-inch storm drain will limit discharge to approximately 2.36 cfs resulting in shallow detention within the parking lot.
- 2. The Plan indicates that all drainage from the building will be directed east.
- 3. The site plan has been revised to utilize the existing drivepad on 3<sup>rd</sup> Street. The existing drop inlet will remain in place without modification.

Thank you for your assistance. If you have any questions regarding this request, please call me.

Sincerely,

LORENZ DESIGN & CONSULTING, LLC

Dennis A. Lorenz, PE

P\14-009\CC06172014

#### Cherne, Curtis

From: Dennis Lorenz < Dennis @ lorenznm.com>

**Sent:** Monday, June 30, 2014 3:08 PM

To: Cherne, Curtis

Cc: Rick Bennett (rick@rba81.com); Bill Smith (constructsouthwest@gmail.com)

Subject: Anthea - 4th at Granite

#### **Curtis:**

As a follow up to our conversation last week regarding the Conceptual Grading and Drainage Plan, I would like to confirm our understanding that the Conceptual Plan is acceptable for Site Plan purposes and that you are able to sign off on the Plan at DRB this Wednesday. I understand that there details including a datum adjustment, topographic survey, and final design of the detention pond, that will be required upon building permit submittal. Could you please email me an approval letter or simply respond to this email so we will have written record heading into the meeting. Thanks.

Dennis A. Lorenz, PE

Lorenz Design & Consulting, LLC

Office: 505-888-6088 Mobile: 505-220-0869

(REV 04/2009)

OXC	4
	Gmat

		<u> ANTHEA – 4" at</u>	GRANITE N	<u>1M</u>	ZONE MA	4P: <u>J-14/D171</u>
DRB#:	: <u>14-DRB-7019</u>	<u>96                                    </u>	EPC#:	NA	WORK O	RDER#: NA
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<u>ENGIN</u>	NEERING FIRM:	LORENZ DESIG	N & CONSU	JLTING	CONTAC	T: DENNIS LORENZ
	ADDRESS:	2501 RIO GRAN	DE BLVD. N	W SUITE		
	CITY, STATE:	<u>ALBUQUERQUE</u>	E, NEW MEX	(ICO	ZIP CODE	E: <u>87104</u>
OWNE	<b>=</b> R·	CONSTRUCT S	COLITHWES:	<b>T</b>	CONTAC	T: BILL SMITH
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	<del></del>	RIO RANCHO,			<del></del>	E: 87123
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<u>ARCH</u>	<u> </u>	RICK BENNETT	ARCHITEC	TS	CONTAC	T: R. BENNETT
	ADDRESS:	1104 PARK AVE	ENUE SW		PHONE:	242-1859
	CITY, STATE:	ALBUQUERQUE	E, NEW MEX	(ICO	ZIP CODI	E: <u>87103</u>
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		333 LOMAS NE	· · · · · · · · · · · · · · · · · · ·		PHONE:	998-0303 E- 87103
	CITT, STATE.	ALBUQUERQUE	<u></u>		_ ZIP CODI	E: <u>87102</u>
<u>CONT</u>	RACTOR:	CONSTRUCT S	<u>COUTHWES</u>	Τ	CONTAC	T: BILL SMITH
	ADDRESS:	333 RIO RANCI			PHONE:	<u>891-3695</u>
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DATE	SUBMITTED:	6-17-2014		BY:	<u>DENNIS A</u>	A. LORENZ

- 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.



June 13, 2014

Dennis Lorenz, P.E. Lorenz Design and Consulting 2501 Rio Grande Blvd NW, Suite A Albuquerque, NM 87104

Re: Anthea 4<sup>th</sup> and Granite, Conceptual Grading and Drainage Plan Engineer's Stamp Date 6-2-14 (J14/D171)

Dear Mr. Lorenz,

Based upon the information provided in your submittal received 6-3-14, the above referenced plan cannot be approved for Site Plan for Building Permit until the following comments are addressed:

- 1. The maximum discharge rate for this site is 2.75 cfs/ac. During a predesign in October of 2013 (Hugh Floyd), we figured a pipe into the back of an inlet would be a good way to accomplish this.
- 2. At DRB, the architect mentioned that the building will drain east. Please show direction of roof flows on the plan.
- 3. The site plan may change to use the existing drive entrance on Third St. to avoid relocating the inlet. Please revise the plan accordingly.

Albuquerque

PO Box 1293

If you have any questions, you can contact me at 924-3986.

New Mexico 87103

www.cabq.gov

Sincerely,

Curtis Cherne, P.E.

Principal Engineer, Hydrology

Planning Dept.

C: e-mail

(REV 04/2009)

PROJECT TITLE:	ANTHEA		ZONE MAP:	14 D17
DRB#:	EPC#:	NA	_ WORK ORDER#:	NA
LECAL DESCRIPTION	· LOTEA DLOCKO I			
LEGAL DESCRIPTION	LOT 2, BLOCK C, I			
CITY ADDRESS:	330 GRANITE NW	CIVILS I LAD & GA	ANDENSEOT ADDIV	
		<u> </u>	<u> </u>	<u> </u>
ENGINEERING FIRM:	LORENZ DESIGN & C	CONSULTING	CONTACT:	DENNIS LORENZ
ADDRESS:	2501 RIO GRANDE B		<del></del>	888-6088
CITY, STATE: _	ALBUQUERQUE, NE	W MEXICO	ZIP CODE: _	87104
OMANIED.	CONCEDUCE COUR		OONTAOT.	
OWNER:ADDRESS:	CONSTRUCT SOUT 333 RIO RANCHO BI	······	PHONE:	BILL SMITH
<del></del>	RIO RANCHO, NEW		ZIP CODE:	891-3695 87123
OIII, OI/(IL	TAIO TAINOTTO, TALAA	IVILATOO	ZII CODE.	01123
ARCHITECT:	RICK BENNETT ARC	HITECTS	CONTACT:	R. BENNETT
ADDRESS:	1104 PARK AVENUE	SW	PHONE:	242-1859
CITY, STATE:	ALBUQUERQUE, NEV	W MEXICO	ZIP CODE:	87103
			00117107	
SURVEYOR:	<u> </u>	· · · · ·	CONTACT:	
ADDRESS: CITY, STATE:	· · · · · · · · · · · · · · · · · · ·	<del></del>	_ PHONE: ZIP CODE:	
OITT, OTATE.			_ ZIF CODE.	
CONTRACTOR:	CONSTRUCT SOUT	·		BILL SMITH
ADDRESS:	333 RIO RANCHO BI		_ PHONE:	<u>891-3695</u>
CHY, STATE: _	RIO RANCHO, NEW	MEXICO	ZIP CODE:	<u>87123</u>
TYPE OF SUBMITTAL:		CHECK	TYPE OF APPROVA	I SOUGHT
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EROSION CO		<del></del>	FINAL PLAT APPRO	
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DATE SUBMITTED:	6-03-2014	BY:	DENNIS A. L	ORENZ

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
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# CITY OF ALBUQUERQUE PLANNING DEPARTMENT DEVELOPMENT SERVICE / HYDROLOGY SECTION

DATE: 16-37-13 CONFERENCE RECAP

ZONE ATLAS PAGE NO: J/Y
DRAINAGE FILE:
ZONING:
DKB:
SUBJECT: At blogs
SUBJECT: CIPT beegs STREET ADDRESS (IF KNOWN): between 3rd an 4th South of Grand
SUBDIVISION NAME:
APPROVAL REQUESTED: production  ATTENDANCE: Ithish Floyd, Curtis Cheme  FINDINGS:
1. site to defair flows at a nax rate of 2.75 cfs/ac. or retain the first 12" of the Solven
. It appears is acceptable to drain into the hock of an inled in the 3rd 5t Storm drain.

THE UNDERSIGNED AGREES THAT THE ABOVE FINDINGS ARE SUMMARIZED ACCURATELY AND ARE SUBJECT TO CHANGE IF FURTHER INVESTIGATION REVEALS THAT THEY ARE NOT REASONABLE OR THAT THEY ARE BASED ON INACCURATE INFORMATION.

SIGNED: Chat Come

NAME (PRINT): Curtis A. Cherne

SIGNED: State Hugh Floyd

\*\*NOTE\*\* PLEASE PROVIDE A COPY OF THIS RECAP WITH YOUR DRAINAGE SUBMITTAL.



January 13, 2012- "

Billy O. McCarty, P.E. P.O. Box 487 Reserve, NM 87830

Granite Lot Parking Lot, 950 4th St NW, Traffic Circulation Layout Re: Enginéer's Stamp dated 12-27-11 (J14-D171)

Dear Mr. McCarty,

Based upon the information provided in your submittal received 01-06-12; the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

The handicapped spaces must include an 8-foot wide van access aisle; all other aisles should be 5 feet in width.

Per the Development Process Manual, Chapter 23, Section 6, Part B.17, "Any drivepads that are abandoned must be replaced with sidewalk, curb and gutter by the property owner."

The sidewalk connection must be 6 feet wide.

Clarify the location and use of the curb cut shown across the southwest lot \_line.,

Is there a wheelchair ramp at the intersection of 4th and Granite?

If you have any questions, you can contact me at 924-3991

Sincerely,

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

-Kristal D. Metro, P.E. Traffic Engineer, Planning Dept. Development and Building Services

File

PARKING

Partners in Parking<sup>TM</sup>

Lee Hanes

Operations Manager lhanes@lazparking.com

500 4th Street NW • Suite 110 • Albuquerque, NM 87102 Ph: 505-848-8365 • Fax: 505-848-8341 • Cell: 505-991-7414

www.lazparking.com

Operations Manager

lhanes@lazparking.com

500 4th Street NW • Suite 110 • Albuquerque, NM 87102 Ph: 505-848-8365 • Fax: 505-848-8341 • Cell: 505-991-7414

www.lazparking.com

Albuquerque - Making History 1706-2006

'Mccarty.b.00

Partners in Parking<sup>TM</sup>

(REV 12/2005)

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PROJECT TITLE: GRANITE LOT PARILLE	5 Lot ZONE MAP: J-14/D1
DRB#: EPC#:	WORK ORDER#:
LEGAL DESCRIPTIONS	
LEGAL DESCRIPTION: CITY/ADDRESS: 950 4#51. Nw.	·
*PNGTNEEDING EIDM. D. M.	
*ENGINEERING FIRM: BILLY McCARTY ADDRESS: POBOX 487	CONTACT: B.Uy
CITY, STATE: Reserve NM. 87830	PHONE: 505-235-858 ZIP CODE: 87830
OWNER: GERALDINE SNOW	CONTACT: Cocnaldine
ADDRESS: 9609 LAUE MONTESA CT./	PHONE: 620-4489
CITY, STATE: Albor N.M	ZIP CODE: 87/20
ARCHITECT:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
SURVEYOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
TYPE OF SUBMITTAL:	PE OF APPROVAL SOUGHT:
DRAINAGE REPORTSLA	VFINANCIAL GUARANTEE RELEASE
DRAINAGE PLAN 1 <sup>st</sup> SUBMITTAL PR	ELIMINARY PLAT APPROVAL
	DEV. PLAN FOR SUB'D APPROVAL
~~~	DEV. FOR BLDG. PERMIT APPROVAL
	CTOR PLAN APPROVAL
	ALPLAT APPROVAL
	JNDATION PERMIT APPROVAL
	LDING PERMIT APPROVAL; , RTIFICATE OF OCCUPANCY (PERM) ••
	RTIFICATE OF OCCUPANCY (FEMIN)
	ADING PERMIT APPROVAL
	/ING PERMIT APPROVAL
$W_{\mathbf{P}}$	RK ORDER APPROVAL
· OT	E PETE TENE
VAS A PRE-DESIGN CONFERENCE ATTENDED:	
YES	1 A K L A C 2012
NO	JAN 06 2012
COPY PROVIDED	
	HYDROLOGY
ATE SUBMITTED:	SECTION: //wes
	505-991-7414

- 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.



**₩** 

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January 11, 2012

Billy McCarty, P.E. PO Box 487 Reserve, NM 87830

Re: Lot 5-A, Duran and Alexander Addition, 950 4<sup>th</sup> Street NW – Grading and Paving Plan

Engineer's Stamp dated 12-27-11 (J-14/D171)

Dear Mr. McCarty,

Based upon the information provided in your submittal dated 01-06-12, the above referenced plan cannot be approved for Grading and Paving Permit until the following comments have been addressed:

- The plan needs to be divided into two separate basins with basin boundaries delineated on the sheet.
- Each basin should pass flows through depressed landscaping areas before discharging to the street.
- Free discharge will be limited to either 2.75 cfs/acre or to capturing the first half inch of rainfall at your discretion. Please illustrate how this will be accomplished.
- The proposed sidewalk culvert is not needed. Hydrology prefers that the flows be directed through the valley gutter to the landscape area and then exit through the drive pad.
- The southern portion running along the lot line appears to drain to the south onto the adjacent property. This area should be depressed to capture the water that falls there and to prevent offsite flows.
- Provide ponding volumes for the depressed landscape areas.

If you have any questions, you can contact me at 924-3986.

Sincerely,
Cutura Colon

Curtis Cherne, P.E.

Principal Engineer, Planning Dept.

Development and Building Services

C: file CJH/CC

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Called 1/11 1:33pm

### DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 12/2005)	
GRANITE LOT PARKING LOT	ZONE MAP: \/\/
DRB#: EPC#:	WORK ORDER#:
LEGAL DESCRIPTION:	
CITY/ADDRESS: 950 42451. NW.	
*ENGINEERING FIRM: BILLY MCCARTY	CONTACT: B-114 73
ADDRESS: POBOX 487	PHONE: <5735-85
CITY, STATE: Reserve, NN. 87830	ZIP CODE: 87830
OWNER: GOLDINE SNOW	CONTACT: Considere
ADDRESS: 9609 LAUE MUNTESA CT. NW	PHONE: 620-4489
CITY, STATE: Albox. N.M	ZIP CODE: 87/20
ARCHITECT:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
SURVEYOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
	APPROVAL SOUGHT:
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	NARY PLAT APPROVAL
	LAN FOR SUB'D APPROVAL OR BLDG. PERMIT APPROVAL
	PLAN APPROVAL
	LAT APPROVAL
	TION PERMIT APPROVAL
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	CATE OF OCCUPANCY (PERM)
	CATE OF OCCUPANCY (TEMP)
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	PERMIT APPROVAL
	RDER APPROVAL
OTHER (S	
WAS A PRE-DESIGN CONFERENCE ATTENDED:	
YES	
NO	
COPY PROVIDED	JAN 06 2012
——————————————————————————————————————	JAN 1/2 //
DATE SUBMITTED: //6//2	BY: GOOWES

- 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.



### Planning Department Transportation Development Services

September 9, 2015

Rick Bennett RBA Architects 1104 Park Ave., SW Albuquerque, NM 87102

Re: Anthea – 4<sup>th</sup> and Granite

950 4<sup>th</sup> St.

Certificate of Occupancy – Transportation Development

Engineer's/Architect's Stamp dated 9-8-15 (J14-D171)

Certification dated <del>7-29-15</del> 8 -11 - 15

Dear Mr. Bennett,

Based upon the information provided in your submittal received 8-26-15,

Transportation Development has no objection to the issuance of a Permanent

Certificate of Occupancy. This letter serves as a "green tag" from Transportation Development for a Permanent Certificate of Occupancy to be issued by the Building

and Safety Division.

Albuquerque

PO Box 1293

If you have any questions, please contact Gary Sandoval at (505) 924-3675 or me at

(505)924-3991.

New Mexico 87103

Sincerely,

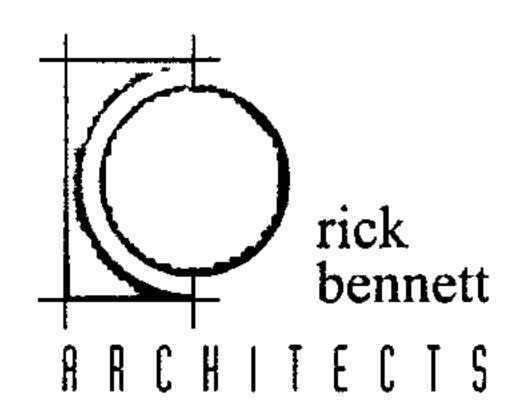
www.cabq.gov

Racquel M. Michel, P.E.

Traffic Engineer, Planning Dept. Development Review Services

\ via: email

C: CO Clerk, File



**September 15, 2015** 

Re: Anthea – 4<sup>th</sup> at Granite 950 4<sup>th</sup> ST DRB Approval #1010103/14DRB-70196

#### TRAFFIC CERTIFICATION

I, <u>Rick Bennett</u>, NMRA # 1240, of The Firm of RBA, hereby certify that this project is in substantial compliance with and in accordance with the design intent of the Traffic Circulation Layout, approved plan dated, July 23, 2014.

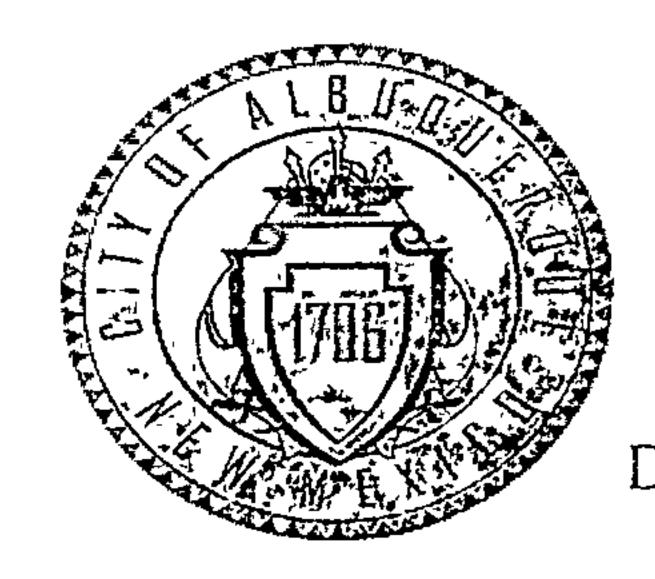
The record information edited onto the original design document has been obtained by <u>Rick Bennett Architect</u>, of the firm. I further certify that I have personally visited the project site on August 11, 2015 and have determined by visual inspection that the survey data provided is representative 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 Certificate of Occupancy (Permanent) for Anthea, located at 950 4th St, Albuquerque, NM.

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

Date: 9/15/2015

Sincerely,

Rick Bennett, Architect



### City of Albuquerque

### Planning Department

Development & Building Services Division DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

	7201492709 11 Day # # 550 4492709 City Drainage #: 111
Project Title: ANTHEA-4THAT GRANITE	Building Permit #: 1201492710 City Drainage #: 1401  Work Order#:
DRB# 1010103/14DRB-70196 EPC#.	
	LOTS   THRU4, & THE NLY 10 LOTS BLK. C DURANT ADDITION
City Address: 950 4TH STREET	······································
Engineering Firm: LORENZ DESIGN & CONSU	LTING Contact. OENNS LORENZ
Address SUITEA, 2501 RIO GRANDE B	BLVD. NW; ALBO. NW 87104
Phone#. 505-888-6088 Fax#:	E-mail dennisleloren-2NM.cov
	Contact:
Owner: NOLO FOOTPRINT, LLC	
Address: 333 RIORANCHO DRIVENE, S	E-mail:
Phone#: Fax#	1.5-111.CLII.
Architect: RBA ARCHITECTS	Contact: RICK BENNETT
Address: 1104 PARK ANE SW; ALBO. N	1M 87102
Phone#: 505-242-1859 Fax# 505	5-242-6630 E-mail: rickerba81.com
	Contact GARYMAPLE
Surveyor: THE SURVEY OFFICE	
Address: 333 LOMAS BLUD, ME; ALIBO	5-998-0305 E-mail: maple ethesurveyoffice
Phone#: <u>505-998-0303</u> Fax#: <u>50</u>	S-448-0303 COI
Contractor: CONSTRUCT SOUTHWEST, L	LC Contact: BILL SMITH
Address: 333 RIORAIUCHO DRIVE NE, S	STE401, RIO RANCHO 87124
Phone# 505-891-3695 Fax#:	E-mail: constructsouthwest P
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TYPE OF SUBMITTAL:  DRAINAGE REPORT	SIA/FINANCIAL GUARANTEE RELEASE
DRAINAGE PLAN 1st SUBMITTAL	PRELIMINARY PLAT APPROVAL
DRAINAGE PLAN RESUBMITTAL	S. DEV PLAN FOR SUB'D APPROVAL
CONCEPTUAL G & D PLAN	S DEV. FOR BLDG PERMIT APPROPRIES PERMIT APPROPRIES
GRADING PLAN	SECTOR PLAN APPROVAL
EROSION & SEDIMENT CONTROL PLAN (ESC)	FINAL PLAT APPROVAL AUG 2 6 2015
ENGINEER'S CERT (HYDROLOGY)	CERTIFICATE OF OCCUPANCY (PERM)
CLOMR/LOMR	CERTIFICATE OF OCCUPANCY (TCL TEMP)
TRAFFIC CIRCULATION LAYOUT (TCL)	CERTIFICATE OF OCCUPANCY (TCL TEMP) FOUNDATION PERMIT APPROVAL LAND DEVELOPMENT SECTION
ENGINEER'S CERT (TCL)	BUILDING PERMIT APPROVAL
ENGINEER'S CERT (DRB SITE PLAN)	GRADING PERMIT APPROVAL  PAVING PERMIT APPROVAL  ESC PERMIT APPROVAL
ENGINEER'S CERT (ESC)	
SO-19	
OTHER (SPECIFY)	GRADING CERTIFICATION OTHER (SPECIFY)
WAS A PRE-DESIGN CONFERENCE ATTENDED	Yes X No Copy Provided
DATE SUBMITTED: Crus Prince	By. 8/21/15
Requests for approvals of Site Development Plans and/or Subdivision scope to the proposed development defines the degree of drainage de	on Plats shall be accompanied by a drainage submittal. The particular nature, location, and etail. One or more of the following levels of submittal may be required based on the following levels.

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

Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including

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

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

project less than 1-acre than are part of a larger common plan of development