CITY OF ALBUQUERQUE



December 22, 2016

Richard J. Berry, Mayor

David Soule, P.E.
Rio Grande Engineering
P.O. Box 93924
Albuquerque, NM 87199

RE: Lomas Town Homes

Grading and Drainage Plan

Engineer's Stamp Date 12-21-2016 (file: K22D057)

Dear Mr. Soule:

Based upon the information provided in your submittal received 12-21-2016, the above referenced plan is approved for Grading and Building Permit and SO-19 permit.

Please attach a copy of this approved plan in the construction sets for Building Permit processing. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

PO Box 1293

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

Albuquerque

Sincerely,

New Mexico 87103

www.cabq.gov

Abiel Carrillo, P.E.

Principal Engineer, Planning Dept.

Development Review Services

MA/AC



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: LOMAS TOWNHOMES	Building Permit #:	City Drainage #: K22-D057
DRB#: EPC#		Work Order#:
Legal Description: LOTS 2D1 AND 2E1 BLOCK 2A CHELWOOD PARK		
City Address: 12844 LOMAS NE		
Engineering Firm: RIO GRANDE ENGINEERING		Contact: DAVID SOULE
Address: PO BOX 93924, ALBUQUERQUE, NM 87199		
Phone#: 505.321.9099 Fax#. 505.872.0999		E-mail: DAVID@RIOGRANDEENGINEERING.COM
Owner: WORQUE LLC		Contact:
Address:		
Phone#: Fax#'		E-mail:
Architect:		Contact:
Address:		·**···································
Phone#: Fax#:	· •	E-mail:
Other Contact:	, ···,	Contact:
Address: Phone#: Fax#:		E-mail:
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Check all that Apply:		
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	WORK ORDER	RAPPROVAL
EROSION & SEDIMENT CONTROL PLAN (ESC)	CLOMR/LOM	IR .
OTHER (SPECIFY)	PRE-DESIGN N	
IS THIS A RESUBMITTAL?: X Yes No	OTHER (SPE	CIFY)
DATE SUBMITTED: 12/20/16 By:	DAVID SOULE	

COA STAFF ELECTRON

ELECTRONIC SUBMITTAL RECEIVED ____

CITY OF ALBUQUERQUE



December 15, 2016

Richard J. Berry, Mavor

David Soule, P.E. Rio Grande Engineering P.O. Box 93924

Albuquerque. NM 87199

RE: Lomas Town Homes

Grading and Drainage Plan

Engineer's Stamp Date 12-6-2016 (file: K22D057)

Dear Mr. Soule:

Based upon the information provided in your submittal received 12-6-2016, the above referenced plan cannot be approved for ESC Permit for grading and Building Permit and SO-19 permit until the following comments are addressed:

	Provide a basin map for the offsite basin. Include calculations for flow and volume. It appears the swale in the southeast corner drains north. Shouldn't it drain south? Provide the outfall location for the offsite basin. we have added map, calcs and outfall. The plan doesn't appear to provide storm water quality for basin C. we have added were practical. The pond in the northwest corner appears to have zero volume, pond bottom 99.5, culvert.
PO Box 1293	invert 99.5. We have modified to have 9" deep volume
	25. Provide a build note for the curb cut in the parking island in the middle of the site. It seems a
Albuquerque	curb cut on the east side of parking island would also be beneficial. we have added
	6. Please add that an excavation permit or work order is require for grading the alley. We have added
New Mexico 87103	—7. Please revise the water quality cobble swale detail to agree with the build note. we have revised
•	If you have any questions, you can contact me at 924-3986.

www.cabq.gov

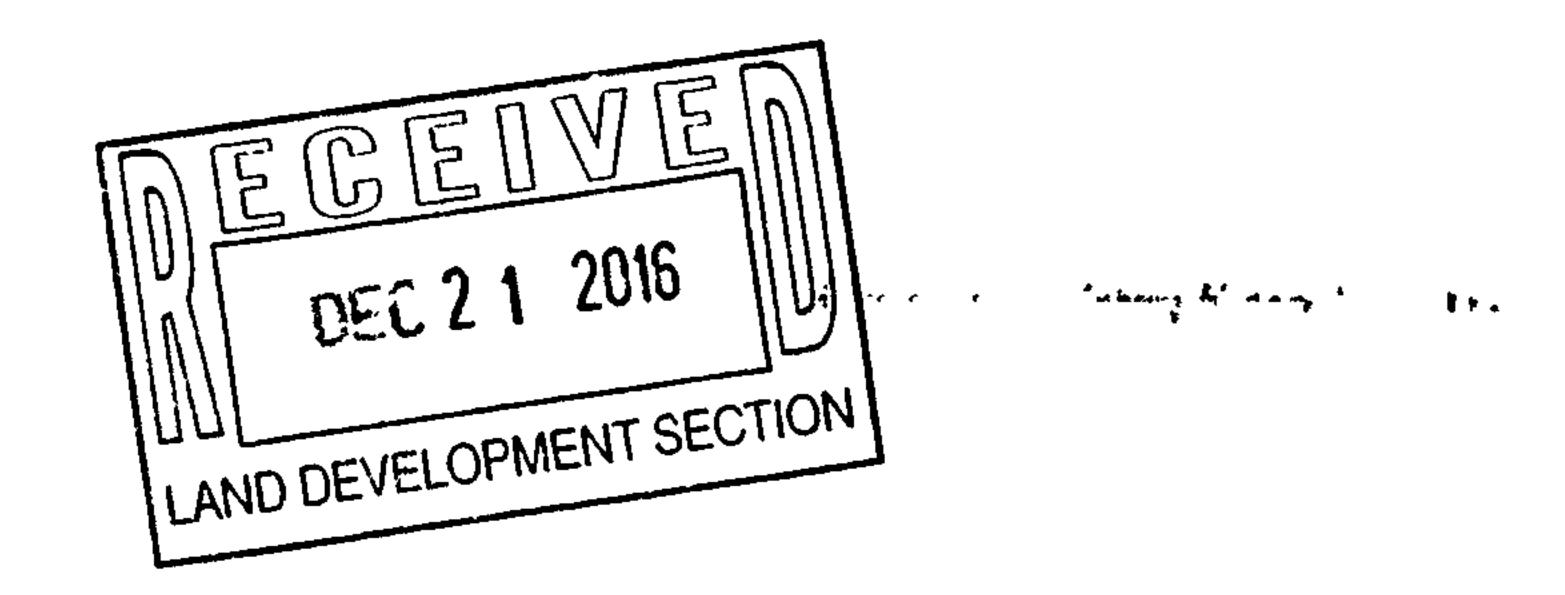
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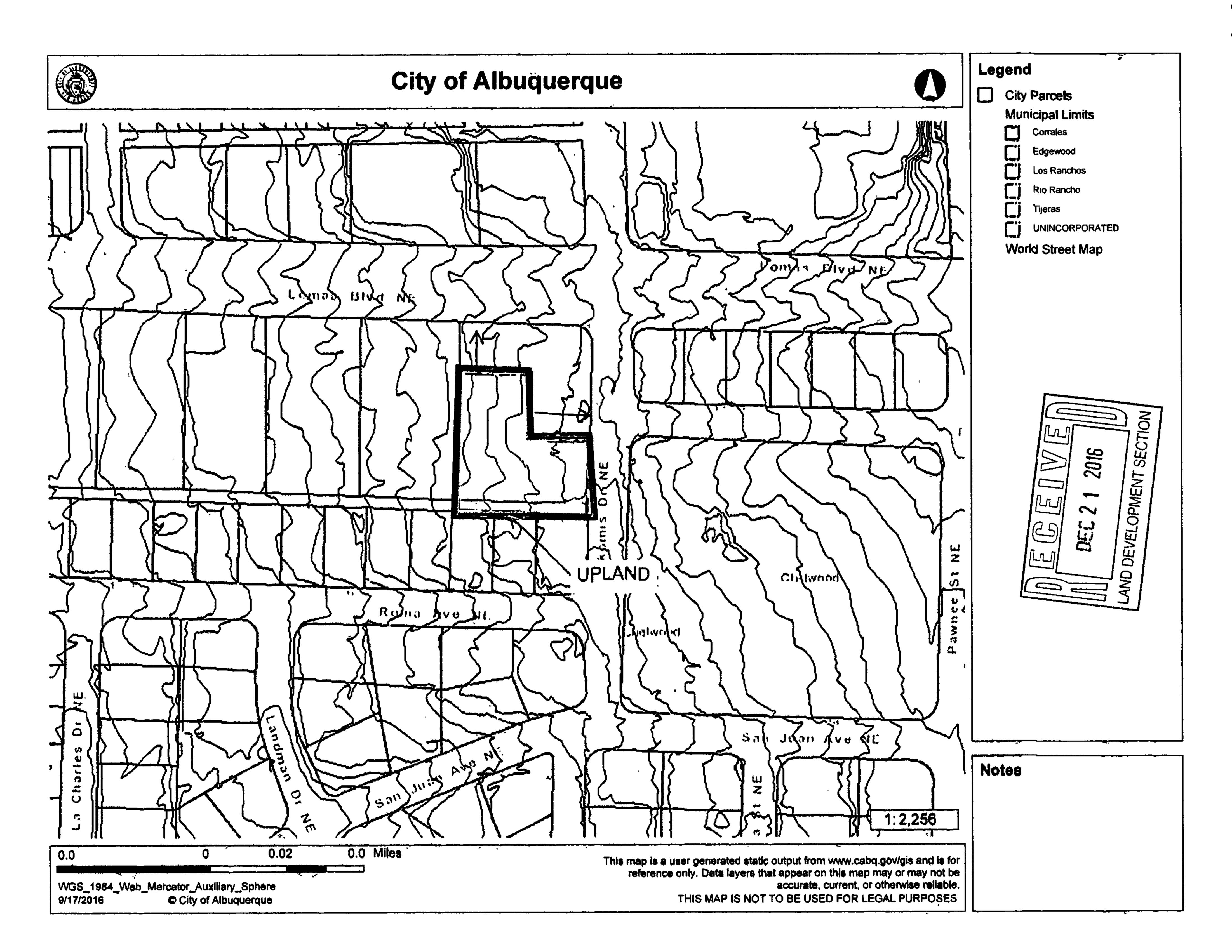
Abiel Carrillo, P.E.

Sincerely.

Principal Engineer, Planning Department

Development Review Services





Weighted E Method LOMAS APTS

Existing Developed Basin

EXISTING

PROPOSED TO LOMAS

PROPOSED TO ALLEY

				•					. •		100-Year, 6-hr	·		10-day
Basin	Area	Area	Treatment	A	Treatment B		Treatm	ent C	Treatmen	t D	Weighted E	Volume	Flow	Volume
	(sf)	(agres)	. %	(acres)	%	(acres)	%	(acres)	%	(seges)	(ac-ft)	(ac-ft)	cfs	(ac-ft)
LOMAS	19819	0.455	70%	0.31849	30 0%	0 136	0 0%	0	0 0%	000 Q	0.884	0.034	1.10	0 034
ALLEY	48421	1 112	80%	0 88927	20 0%	0 222	0 0%	0	0 0%	0000	0 856	0 079	2 61	0 079
TOTAL	68240	1 567	77%	1.20776	22 9%	0 359	0 0%	0 000	0 0%	0000	0.864	0 113	3 70	0 113
DEV UPLAND	52960	1 216		0	10 0%	0 122	20 0%	0 243 16	70 0%	0 851	2 248	0 228	5 73	0.341
_	00.40	0.460	004		45.00	0.000	20.00/	0.05047	46.00/	0.070	1 046	0.005	0.66	0.034
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C	30994	0712	. 0%	· ···· · · · · -	0 0%	0.000		0 06404			2 534	0 150	3 64	0 237
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A	8712	0 200	0%	0	16 0%	0 032	43 0%	0.086	41 0%	0 082	1 883	0 031	0 84	0 042
F	13041	0 299	0%	0	14 0%	0.042	17.0%	0 05089	69 0%	0 207	2 221	0.055	1.40	0.083
G	4370	0 100	. 0%	0	19 0%	9 919	23 0%	0 02307	5 8 0%	0 058	2 072	0 017	0 45	0 025
TOTAL	26123	0 600	0%	0 000	15 5%	0.093	26 7%	0 160	57 8%	0 347	2 083	0 104	2 69	0 150
					 									
			34		 									<u></u>

Equations:

Weighted & = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)

Volume = Weighted D * Tetal Area

Flow = Qa * Aa + Qb * Ab + Qe * Ac + Qd * Ad

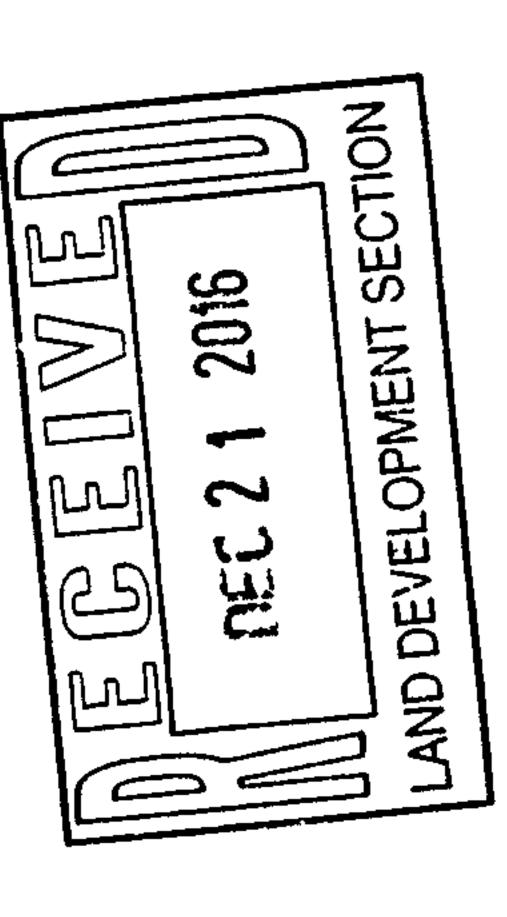
Where for 100-year, 6-hour storm (zone 4)

Ea≠ 0 8 Qa= 2.2 Eb≠ 1 08 Qb= 2.92 Ec≠ 1 46 Qc= 3.73 Ed≠ 2 64 Qd= 5 25

FLOW SUMMARY	EXISTING	PROPOSED
LOMAS (AFTER ROUTING)	1 10	0 96
TO ALLEY	2 61	2 69
TO ALLEY (PASSED THRU	5 73	5 73

PONDING PROVIDED FIRST FLUSH REQUIREMENT

2030 0 CF 1365 2 CF



CITY OF ALBUQUERQUE



December 15, 2016

Richard J. Berry, Mayor

David Soule, P.E. Rio Grande Engineering P.O. Box 93924 Albuquerque, NM 87199

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- 2. Provide the outfall location for the offsite basin.
- 3. The plan doesn't appear to provide storm water quality for basin C.
- 4. The pond in the northwest corner appears to have zero volume, pond bottom 99.5, culvert invert 99.5.
- 5. Provide a build note for the curb cut in the parking island in the middle of the site. It seems a curb cut on the east side of parking island would also be beneficial.
- 6. Please add that an excavation permit or work order is require for grading the alley.
- 7. Please revise the water quality cobble swale detail to agree with the build note.

New Mexico 87103

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

www.cabq.gov

PO Box 1293

Albuquerque

Abiel Carrillo, P.E.

Sincerely,

Principal Engineer, Planning Department

Development Review Services



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Engineering Firm: RIO GRANDE ENGINEERING Address: PO BOX 93924, ALBUQUERQUE, NM 87199 Phone#: 905.271.9099 Fax#: 505.872.9999 E-mail: DAVID@RIOGRANDEERING.CO Contact: Address: Phone#: Fax#. Architect: Address: Phone#: Fax#. Contact: Address: Phone#: Fax#. Contact: Address: Phone#: Fax#. Contact: Address: Phone#: Fax#. Contact: Address: Phone#: E-mail: Check all that Apply: DEPARTMENT: X HYDROLOGY/ DRAINAGE TRAFFIC/TRANSPORTATION MS# EROSION & SEDIMENT CONTROL TYPE OF SUBMITTAL: ENGINEER ARCHITECT CERTIFICATION DRAINAGE MASTER PLAN DRAINAGE MA	Project Title: LOMAS TOWNHOMES	Building Permit #: City Drainage #: K22-D057
City Address: 12844 LOMAS NE Engineering Firm: RIO GRANDE ENGINEERING Address: PO BOX 93924, ALBUQUERQUE, NM 97199 Fax#: 505.872.0999 E-mail: DAVID SOULE Address: Contact: MORGUE LLC Address: Ponne#: Fax#: E-mail: Contact: Address: Contact: Address: Ponne#: Fax#: E-mail: Contact: Address: Ponne#:	DRB#.	Work Order#:
Engineering Firm: RIO GRANDE ENGINEERING Address: PO BOX 93924, ALBUQUERQUE, NM 87199 Phone#: 905.271.9099 Fax#: 505.872.9999 E-mail: DAVID@RIOGRANDEERING.CO Contact: Address: Phone#: Fax#. Architect: Address: Phone#: Fax#. Contact: Address: Phone#: Fax#. Contact: Address: Phone#: Fax#. Contact: Address: Phone#: Fax#. Contact: Address: Phone#: E-mail: Check all that Apply: DEPARTMENT: X HYDROLOGY/ DRAINAGE TRAFFIC/TRANSPORTATION MS# EROSION & SEDIMENT CONTROL TYPE OF SUBMITTAL: ENGINEER ARCHITECT CERTIFICATION DRAINAGE MASTER PLAN DRAINAGE MA	Legal Description: LOTS 2D1 AND 2E1 BLOCK 2A CHELWOOD PARK	· · · · · · · · · · · · · · · · · · ·
Address: PO BOX \$3924, ALBUQUERQUE, NM 87199 Phone#: 505.271.9099 Fax#: 505.872.0999 E-mail: DAVID@RIOGRANDEENGINEERING.COI Gwner: WCRQUE LLC Contact: Address: Phone#: Fax#. E-mail: Check all that Apply: DEPARTMENT: X INYDROLOGY/ DRAINAGE TRAFFIC/TRANSPORTATION MS4* EROSION & SEDIMENT CONTROL TYPE OF SUBMITTAL: ENGINEER/ ARCHITECT CERTIFICATION X GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE MASTER PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC MPACT STUDY (TIS) EROSION & SEDIMENT CONTROL PLAN (ESC) OTHER (SPECIFY) PRE-DESIGN MEETING OTHER (SPECIFY) PRE-DESIGN MEETING OTHER (SPECIFY) IS THIS A RESUBMITTAL?: X Yes No	City Address: 12844 LOMAS NE	
Address: Phone#: 905.27.9999 Fax#: 505.872.0999 E-mail: DAVID@RIOGRANDEENGINEERING.COI Contact: Contact: Contact: Address: Phone#: Fax#. E-mail: Architect: Address: Phone#: Fax#. E-mail: Contact: Contact: Address: Phone#: Fax#. E-mail: Check all that Apply: Check all that Apply	Engineering Firm: RIO GRANDE ENGINEERING	Contact: DAVID SOULE
Owner: WORQUELLC Address: Phone#: Fax#. E-mail: Architect: Address: Phone#: Fax#. E-mail: Other Cobact: Address: Phone#: Fax#. E-mail: Other Cobact: Address: Phone#: Fax#. E-mail: Other Cobact: Address: Phone#: Fax#. E-mail: Check all that Apply: DEPARTMENT: X HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION M54: ROSION & SEDIMENT CONTROL TYPE OF SUBMITTAL: ENGINEER/ ARCHITECT CERTIFICATION X GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT CLOMRLOMR TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC MASCING AS EDIMENT CONTROL PLAN (ESC) TRAFFIC MASCING AS EDIMENT CONTROL PLAN (ESC) TRAFFIC MASCING AS EDIMENT CONTROL PLAN (ESC) OTHER (SPECIFY) PREDESIGN MEETING OTHER (SPECIFY) IS THIS A RESUBMITTALE?: X Yes No		
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DATE SUBMITTED: 12/5/16 By: DAVID SOULE	IS THIS A RESUBMITTAL?: X Yes No	
		· · · · · · · · · · · · · · · · · · ·

COA STAFF ELECTRONIC SUBMITTAL RECEIVED ____

12/5/16

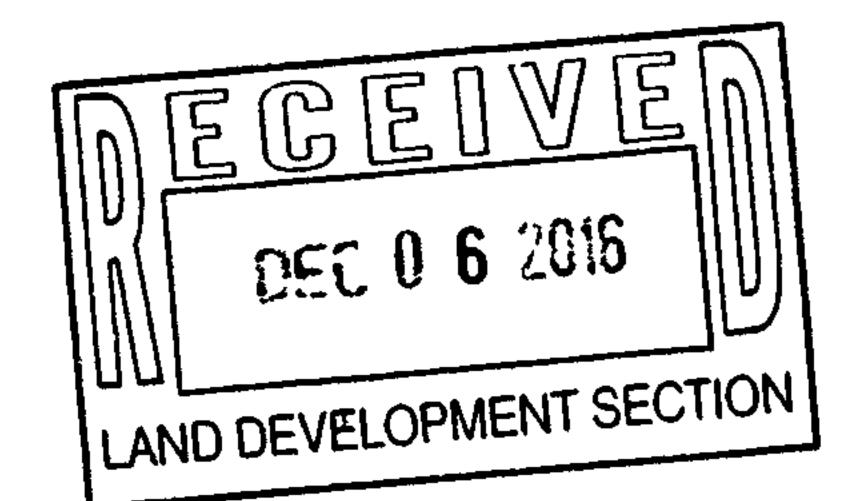
Abiel Carrillo, PE, CFM
Principal Engineer - Hydrology
City of Albuquerque
600 2nd Street NW
Albuquerque, NM 87102

The purpose of this letter is to accompany the enclosed grading plan. The plan has been revised to address your email comments dated 11/21/16. Below are your comment and our response as to how they were addresses are underlined:

- 1. The Grading Plan exhibit in the Report is different from the full size Plan submitted. We have attached the corrected plan and electronic. The basin map within the report was an older version but is not being built off of and an exhibit to delineate basin boundaries
- 2. Since the alley is being utilized to drain a portion of the developed flows, it will need to be improved, at a minimum, with a shaped roadway section with a concrete alley gutter that extends to the Nakomi Dr pavement. Currently, the "alley" does not appear to be physically aligned or shaped to accept flows from this development. Erosion control would also need to be added to the outfall into Nakomi Dr. Based upon our discussion i have created and invert in the alley and since the flow drains west rather than east and is paved west or our site, we have called for compacted base course rather than pavement and valley gutter since paving the alley was not required by transportation development
- 3. Specify the size of the rock to be used. If larger rock is proposed, we recommend that it is placed over filter fabric. We have called out 4" rock over filter fabric.
- 4. Although cross-lot drainage is discouraged, it appears that the grading of the back yards drains away from the building and towards the retaining walls that will feature turned blocks that discharge to the alley. The plan includes a note to address any future walls that might be constructed by townhome owners, but those notes are not often referenced once the project is constructed. Will the turn blocks in the southern wall serve as an overflow if the side yard walls are not constructed to allow cross lot flows? All the units are located on the same lot, therefore we do not have cross-lot drainage. The note was added since the call out on the drawing made the plan hard to read. This builder has built this same product many times and i will not be certifying until the walls are in.
- 5. It's not clear if the main inlet in the center of the parking lot will be set at the bottom of the pond or elevated. If it is set at the bottom of the landscaped area, it should be surrounded with riprap. We have added 6" cobble to protect the inlet.
- 6. An ESC Plan will need to be approved prior to Hydrology's approval (if one has already been submitted you can disregard this comment). This plan has been submitted separately

Sincerely

David Soule Rio Grande Engineering



DRAINAGE REPORT

For

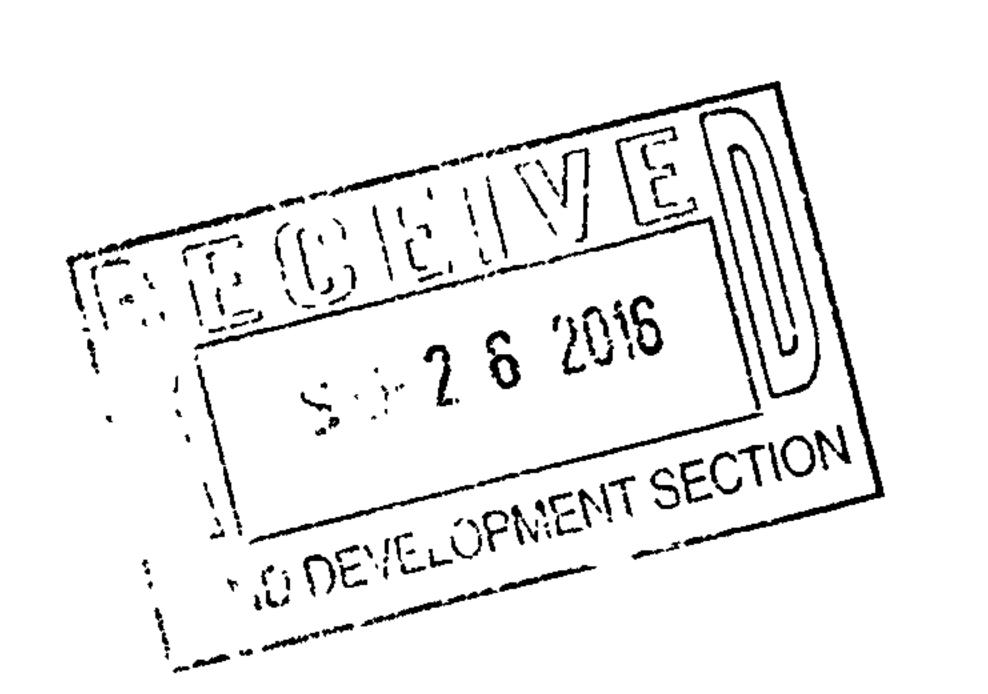
LOMAS TOWN HOMES 12844 LOMAS NE

Albuquerque, New Mexico

Prepared by

Rio Grande Engineering PO Box 93924 Albuquerque, New Mexico 87199

SEPTEMBER 2016





David Soule P.E. No. 14522

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Hydraulic Model	
Hydraulic calculations	
<u>Map</u> Site Grading and Drainage Plan	

PURPOSE

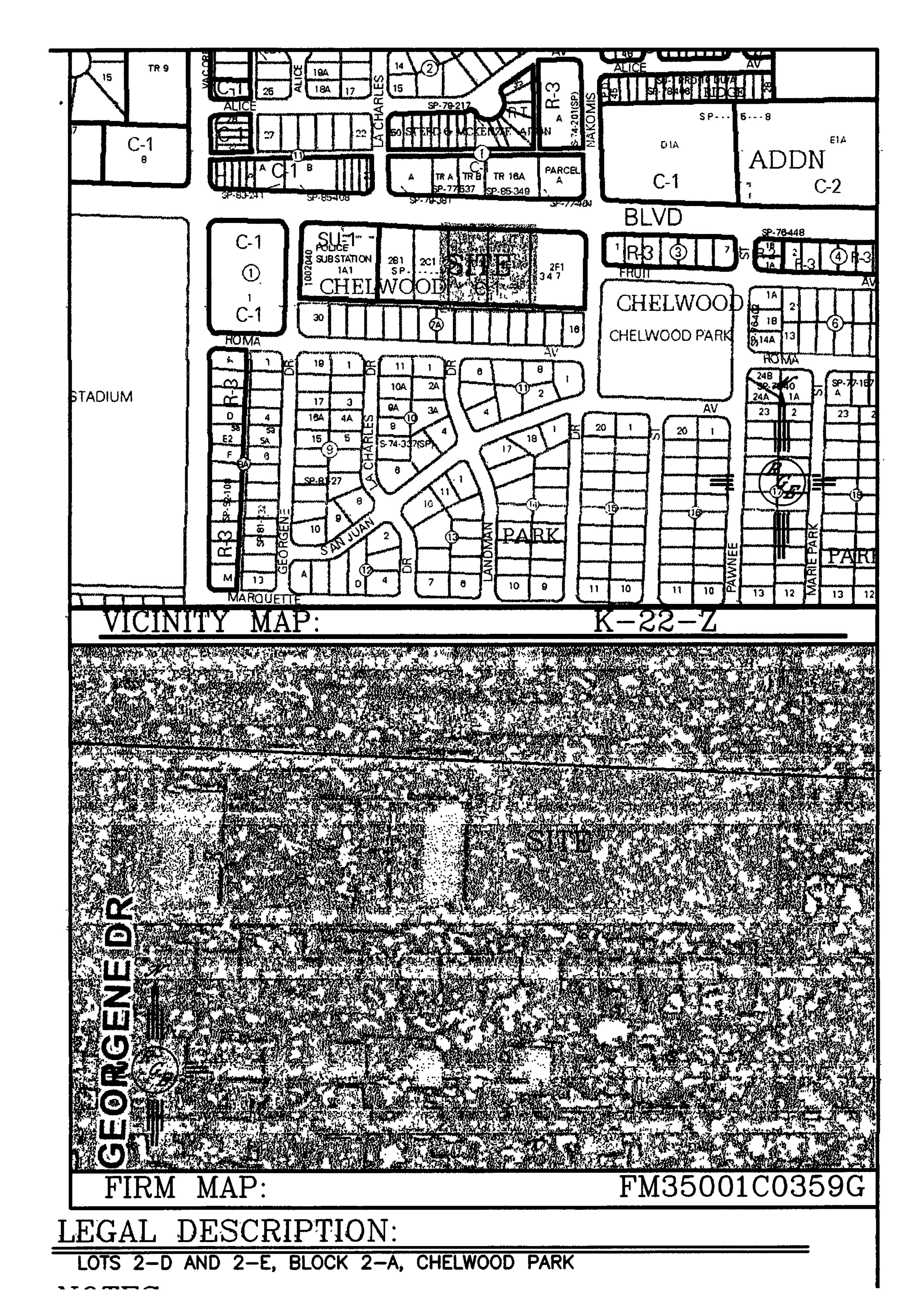
The purpose of this report is to provide the Drainage Management Plan for the development of a 1.6 acre apartment complex located at 12844 Lomas. This plan was prepared in accordance with the City of Albuquerque design regulations, utilizing the City of Albuquerque's Development Process Manual drainage guidelines. This report will demonstrate that the grading does not adversely affect the surrounding properties, nor the upstream or downstream facilities.

INTRODUCTION

The subject of this report, as shown on the Exhibit A, is a 1.6-acre parcel of land located on the south side of Lomas between Juan tabo and Tramway Northeast. The legal description of this site is currently lot 2D1 and 2E1, Block 2A, Chelwood Park. As shown on FIRM map35013C0359G, the entire site is located within Flood Zone X. The site does not appear to have been graded in the past, yet has significant pedestrian activity. The site contains native grasses and hard packed paths. Due to the upstream construction of a parking lot with curbs and a block wall, the front portion of the site is not affected by any upland flows from the east, but the rear portion is impacted by upland flow. The site is surrounded by fully developed sites on all sides with walls on the south side and on the west side, with Lomas Boulevard on the north. The site currently free discharges as sheet flow to the adjacent lot to the west where it passes thru the adjacent site entering Lomas down stream to the north and an public alley to the south The development of the site will require the site to discharge at a rate equal to or less than the existing conditions and retain the first flush water quality volume onsite.

EXISTING CONDITIONS

The site is currently undeveloped and impacted by upland flows. The adjacent site development cut off flows that entered the front portion of the site, yet 5.73 cfs enter the site along the south east corner. The site is located in flood zone x. The site currently discharges 3.7 cfs as sheet flow to the site to the west. As shown in appendix A, the front basin discharges 1.1 cfs that enter the Lomas roadway down stream of this site, and 2.6 cfs enter the alley way due to a wall on the



down stream property. This flow enters a public storm drain at Chelwood. All downstream improvements are in place and maintained by the city of Albuquerque.

PROPOSED CONDITIONS

The proposed improvements consist of a new 24 unit apartment complex. A drainage sub basin map and hydraulic spread sheet is included in appendix A. The proposed development will have small ponds located in the landscape areas where practical to capture 2,030 cubic feet, which is in excess of the 1366 cubic feet of first flush ponding required. The site is divided into two main basins comprised of several sub-basins. As shown in appendix A, the basin contributing to Lomas generated 4.73 cfs. The basin contributing to the ally generates 2.69 cfs. Due to this exceeding historical, the Lomas basin will be throttled using parking lot detention facility. The discharge is controlled by a 4.5" orifice plate within an inlet. The pond has been modeled utilizing a stage-storage tabulation and AHYMO Model found in appendix B. As shown the Lomas basin discharge rate is reduced to 0.96 cfs. The driveway serves as this ponds emergency overflow. The flow total flow leaving the site will be 3.65 cfs which is less than the 3.70 cfs that is currently generated. The flow discharge to the alley leaves at two locations. The western basin is conveyed via a small storm drain. The inlet and pipe capacities are shown in appendix C. The upland flow will be directed to the alley via a 3' swale. This capacity of this swale is shown in appendix C.

SUMMARY AND RECOMMENDATIONS

This project is a development of multifamily residential infill development within the fully developed northeast heights watershed. The development of this site will retain the first flush volume onsite. The site will discharge less than existing conditions. The drainage structures have been adequately sized. The development of this site will not negatively impact the upstream nor down stream facilities. Since this site exceed 1 acre, erosion and sediment Control Plan will be required, a NPDES permit will also be required prior to any construction activity.

APPENDIX A SITE HYDROLOGY

Weighted E Method LOMAS APTS

Existing Developed Basins

EXISTING

PROPOSED TO LOMAS

PROPOSED TO ALLEY

									· · · · · · · · · · · · · · · · · · ·		100-Year, 6-h	<u> </u>		10-0
Basın	Area	Area	Treatment	A	Treatment B		Treatm	ent C	Treatmen	t D	Weighted E	Volume	Flow	Vo
· 	(sf)	(acres)	- %	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs	(6
LOMAS	19819	0 455	70%	0 31849	30 0%	0 136	0.0%	0	0 0%	0 000	0 884	0 034	1 10	
ALLEY	48421	1 112	80%	0 88927	20 0%	0 222	0 0%	0	0 0%	0 000	0 856	0 079	2 61	匚_
TOTAL	68240	1 567	77%	1 20776	22 9%	0 359	0 0%	0.000	0 0%	0 000	0 864	0 113	3 70	
DEV UPLAND	52960	1 216	0%	0	10 0%	0 122	20 0%	0 243 16	70 0%	0 851	2 248	0,228	5 73	<u> </u>
			 	 						<u> </u>				<u> </u>
B !	6642	0 152	0%	0	15 0%	0 023	39 0%	0 05947	46,0%	0 070	1 946	0 025	0 66	
С	30994	0 712	0%	0	0 0%	0 000	90%	0 06404	(910%)	0 647,	2 534	0 150	3 64	
D	777	0 018	0%	0	18 0%	0 003	48 0%	0 00856	34 0%	0 006•	1 793	0 003	0 07	Ϊ.
E	3704	0 085	0%	0	16 0%	0 014	42 0%	0 03571	42 0%	0 036	1 895	0 013	0 36	
TOTAL	42117	0 967	0%	0 000	4 1%	0 040	17 4%	0 168	78 5%	\ 0.759€	2 371	0.191	4 73	
			,											
Α	8712	0 200	0%	0	16 0%	0 032	43 0%	0.086	41 0%	0 082	1 883	0,031	0 84	
F ,	13041	0 299	0%	0	14 0%	0 042	17 0%	0 05089	69 0%	0 207	2 221	0 055	1.40	
G `	4370	0 100	0%	0	19 0%	0 019	23 0%	0 02307	58 0%	0.058	2 072	0 017	0 45	
TOTAL	26123	0 600-	0%	0 000	15 5%		26 7%		57 8%	0 347	2 083	0 104	2 69	
										~				
										\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
									- "	・ ひ・、 ・ソ			· · · - · - · - · - · - · · · ·	

Equations:

Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)

Volume = Weighted D * Total Area

Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

Where for 100-year, 6-hour storm (zone 4)

Ea≠ 08	Qa≃ 2 ,2
Eb≠ 108	Qb= 2.92
Ec≠ 1 46	Qc= 3.73
Ed= 264	Qd= 5 ,25

FLOW SUMMARY	EXISTING	PROPOSED
LOMAS (AFTER ROUTING)	1 10	0 96
TO ALLEY	2 61	2 69
TO ALLEY (PASSED THRU	5 73	5 73

PONDING PROVIDED
FIRST FLUSH REQUIREMENT

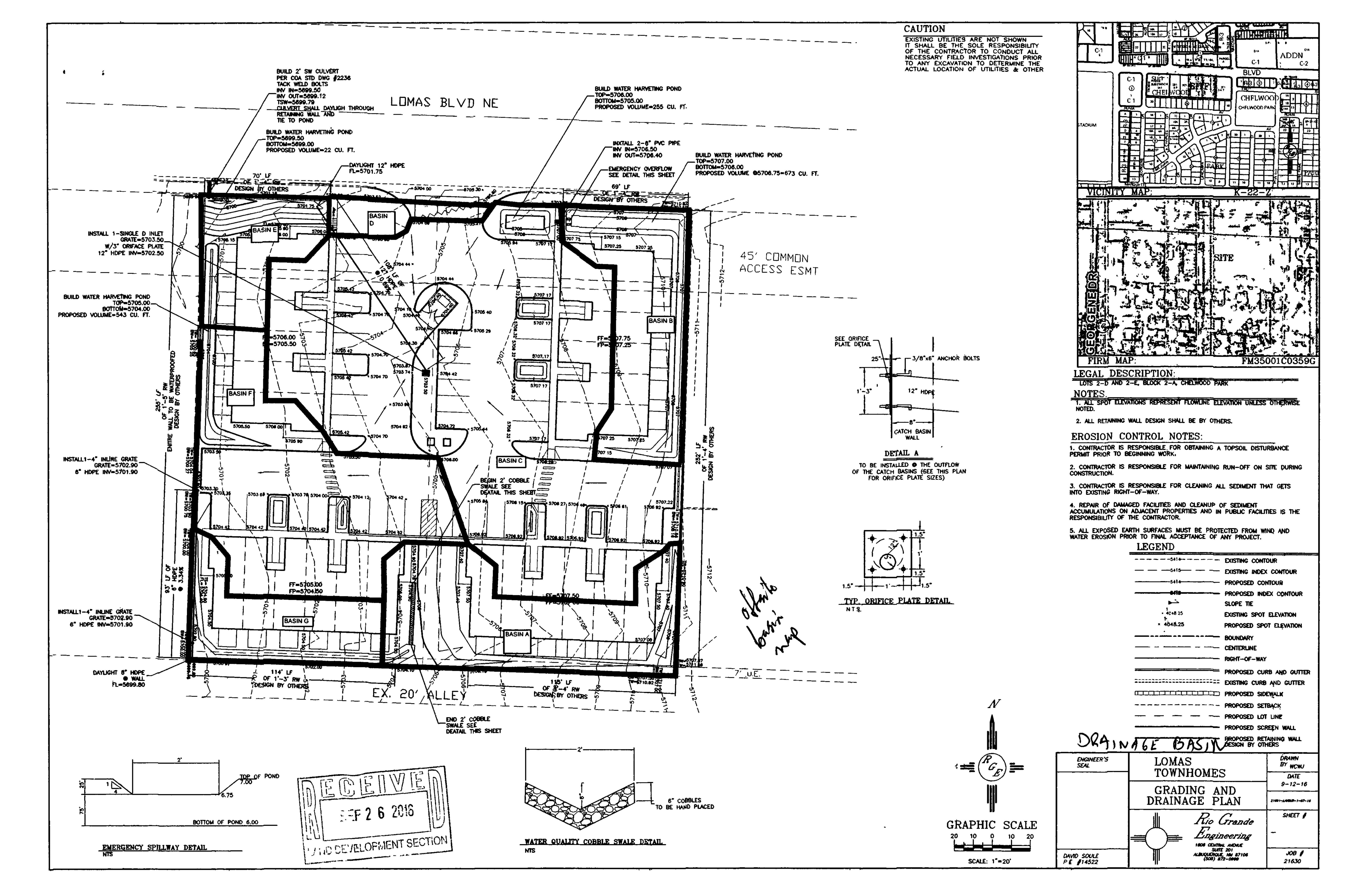
2030 0 CF 1365 2 CF —

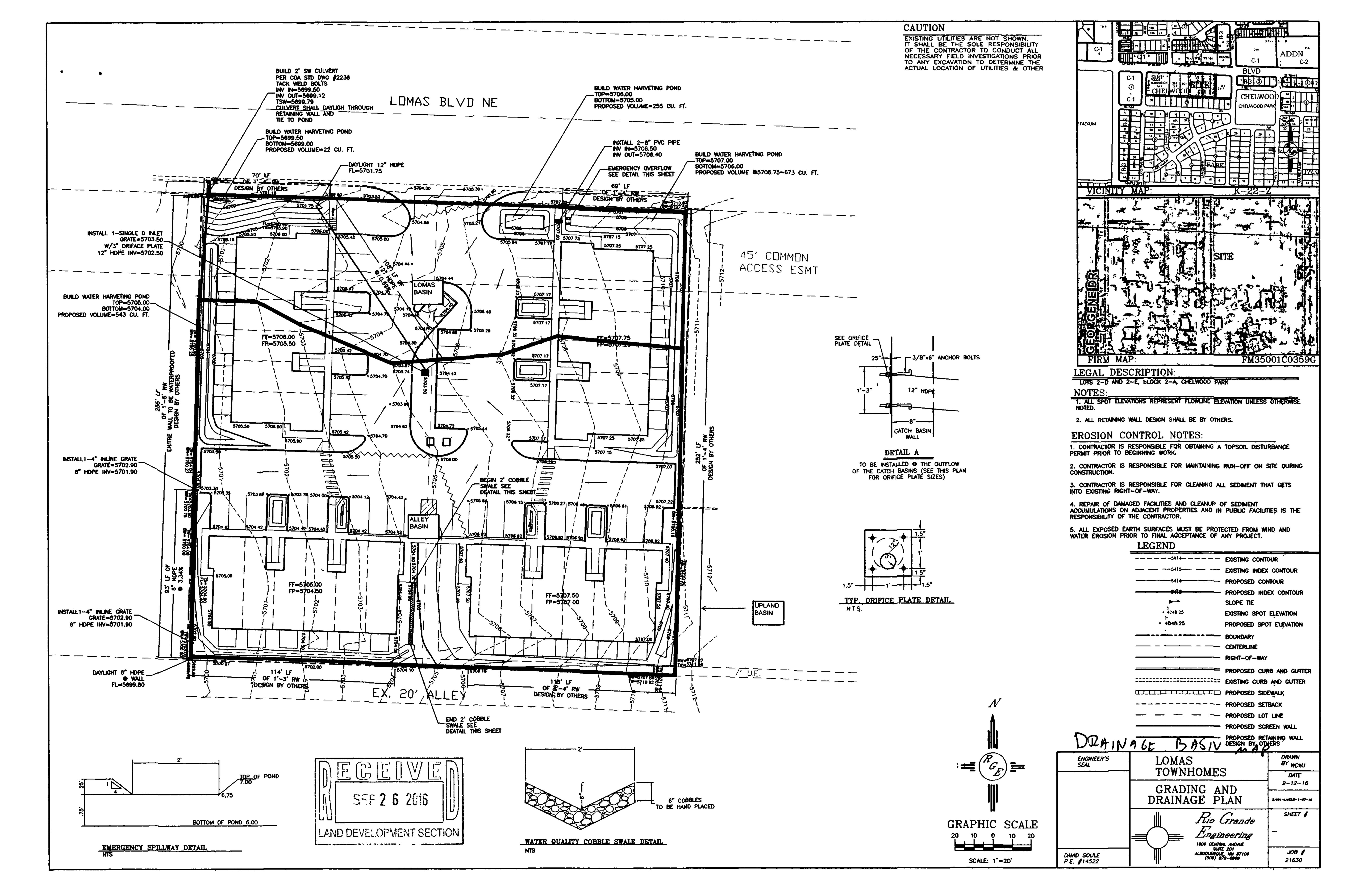
34x man

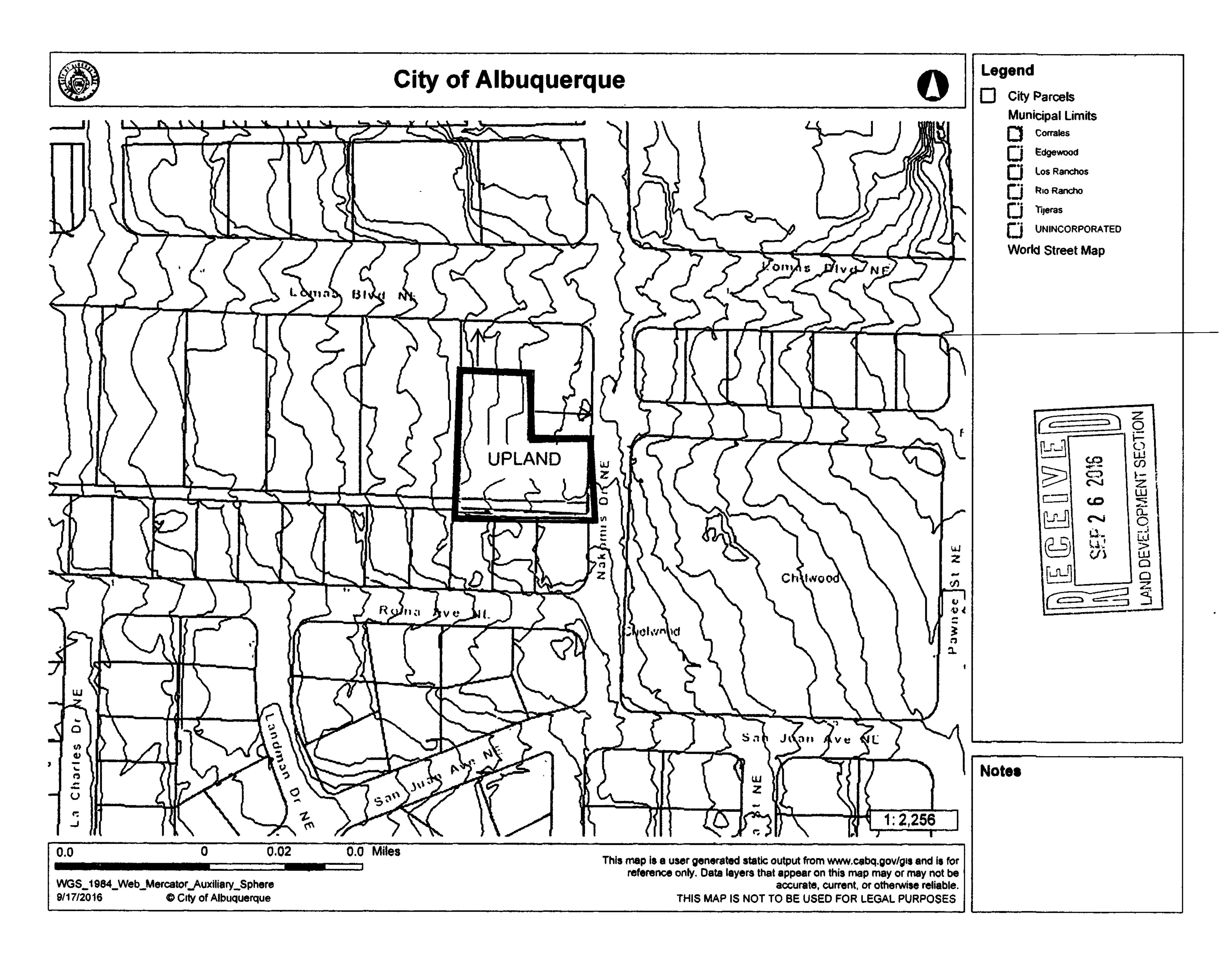
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1120 87

759







APPENDIX B HYDRAULIC MODEL

VOLUME CALCULATIONS

INLET DRAIN

OUTLET

Inlet bottom
POND OUTLET

ACTUAL ELEV.	DEPTH (FT)	AREA SF	VOLUME PER UNIT	VOLUME, CUMULATIVI	VOLUME AC-FΓ	Q (CFS)
					<u> </u>	
1.00	0 00	6.00	0	0	0.000	
1 32	0 00*	6.0000	6	6	0 000	
3.50	2.18	6.0000	6.0000	12	0.000	0.78
4 00	2 68	450.0000	228.0000	240	0.006	0.84
4.50	3.18	2895 0000	1672.5000	1912.5	0.044	0 92
5.00	3.68	5240.0000	4067 5000	5980	0.137	0 99

Orifice Equation
Q = CA SQRT(2gH)

C =

Diameter (in) 4.5Area (ft^2)= 0.110446617

A X X

0.6

Npondrout0917 16.txt

*S AHYMO - PARKING LOT DETENTION-LOMAS APTS

*S POND ROUTING

• • •

START TIME=0.0 PUNCH CODE=0

RAINFALL TYPE=2

QUARTER=0.0 ONE= 2.23 IN

SIX= 2.90 IN DAY= 3.165IN DT = 0.05 HR

COMPUTE NM HYD ID=1 HYD NO=101 DA= .00151 SQ MI

PER A=0 PER B=4.1 PER C=17.4 PER D=78.5

TP=-.145 MASSRAIN=-1

PRINT HYD ID=1 CODE=3

* ROUTE THE TOTAL FLOW THROUGH THE PROPOSED RESERVOIR

ID=2 HYD NO=102 INFLOW=1 ROUTE RESERVOIR CODE=3 OUTFLOW(CFS) STORAGE(AC-FT) ELEV(FT) 0.00 0.000 1.32 0.78 0.000 3.50 0.84 0.006 4.00 0.92 0.044 4.50 0.99 5.00 0.137

FINISH

AHYMO. OUT - Version: S4.01a - Rel: 01a AHYMO PROGRAM (AHYMO-S4) RUN DATE (MON/DAY/YR) = 09/17/2016START TIME (HR:MIN:SEC) = 20:16:39USER NO.= RioGrandeSingleA41963517 INPUT FILE = :\Documents and Settings\Owner\Desktop\2016 jobs\1626-LOMAS\Npondrout0917 16.txt *****\$ AHYMO - NORTH INLET *****S POND ROUTING TIME=0.0PUNCH CODE=0 START TYPE=2 RAINFALL ONE= 2.23 INQUARTER=0.0 SIX= 2.90 INDAY= 3.165INDT = 0.05 HR

24-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE AREAS (NM & AZ) 24.000002 HOURS 0.050000 HOURS END TIME = = 0.00000.0140 - 0.01930.0045 0.02480.00910.03100.0537 0.0842 0.10100.0687 0.1181 0.03980.1356 0.1925 0.2138 0.2367 0.17220.2658 0.1538 0.2980 0.3902 0.4507 0.6221 0.7789 1.0225 0.5314 0.3412 1.9649 2.0812 1.4400 2.1831 1.7335 2.2564 2.3147 2.4649 2.4887 2.3654 2.4026 2.4368 2.5102 2.5296 2.5640 2.5942 2.6205 2.6086 2.5478 -2.5793 2.6271 2.6579 2.6636 2.6401 2.6461 2.6521 2.6693 2.6337 2.6902 2.6952 2.6851 2.7000 2.7048 2.6746 2.6799 2.7095 2.7230 2.7273 2.7316 2.7358 2.7141 2.7186 2.7521 2.7560 2.7599 2.7399 2.7440 2.7481 2.7638 2.7787 2.7824 2.7860 2.7676 2.7895 2.7713 2.7751 2.7965 2.8000 2.8034 2.8068 2.8101 2.7931 2.8134 2.8326 2.8200 2.8263 2.8295 2.8357 2.8167 2.8232 2.8508 2.8537 2.8566 2.8388 2.8418 2.8448 2.8478 2.8680 2.8708 2.8735 2.8595 2.8623 2.8652 2.8763 2.8817 2.8844 2.8870 2.8897 2.8923 2.8790 2.8949 2.9015 2.9022 2.9029 2.9000 2.9007 2.9037 2.8974 2.9074 2.9081 2.9066 2.9088 2.9044 2.9052 2.9059 2.9133 2.9096 2.9118 2.9125 2.9140 2.9103 2.9110 2.9155 2.9162 2.9169 2.9177 2.9184 2.9147 2.9191 2.9221 2.9236 2.9228 2.9243 2.9199 2.9206 2.9213 2.9272 2.9280 2.9287 2.9258 2.9265 2.9294 2.9250 2.9324 2.9331 2.9339 2.9302 2.9309 2.9317 2.9346 2.9375 2.9383 2.9390 2.9361 2.9368 2.9398 2.9353 2.9427 2.9442 2.9405 2.9420 2.9434 2.9449 2.9412 2.9486 2.9493 2.9456 2.9464 2.9471 2.9478 2.9501 2.9537 2.9545 2.9508 2.9515 2.9523 2.9530 2.9552 2.9589 2.9596 2.9559 2.9567 2.9574 2.9582 2.9604 2.9611 2.9618 2.9626 2.9633 2.9640 2.9648 2.9655 2.9692 2.9699 2.9663 2.9670 2.9677 2.9685 2.9707 2.9714 2.9729 2.9736 2.9744 2.9751 2.9758 2.9721 2.9802 2.9788 2.9780 2.9795 2.9810 2.9766 2.9773 2.9839 2.9847 2.9854 2.9817 2.9824 2.9832 2.9861 2.9883 2.9891 2.9898 2.9905 2.9869 2.9913 2.9876 2.9942 2.9950 2.9957 2.9928 2.9935 2.9964 2.9920

2.9986

Page 1

2.9972

2.9979

2.9994

3.0001

3.0009

3.0016

AHYMO. OUT 3.0023 3.0031 3.0038 3.0045 3.0053 3.0060 3.0067 3.0075 3.0082 3.0089 3.0097 3.0104 3.0112 3.0119 3.0126 3.0134 3.0141 3.0148 3.0156 3.0163 3.0170 3.0178 3.0185 3.0193 3.0200 3.0207 3.0215 3.0222 3.0229 3.0237 3.0244 3.0251 3.0259 3.0266 3.0274 3.0281 3.0288 3.0296 3.0303 3.0310 3.0318 3.0325 3.0332 3.0340 3.0347 3.0354 3.0362 3.0369 3.0377 3.0384 3.0391 3.0399 3.0406 3.0413 3.0421 3.0428 3.0435 3.0443 3.0450 3.0465 3.0458 3.0472 3.0480 3.0487 3.0509 3.0516 3.0494 3.0502 3.0524 3.0531 3.0546 3.0553 3.0561 3.0568 3.0539 3.0575 3.0583 3.0597 3.0605 3.0590 3.0612 3.0620 3.0627 3.0634 3.0649 3.0656 3.0664 3.0671 3.0642 3.0678 3.0686 3.0693 3.0700 3.0708 3.0715 3.0723 3.0730 3.0737 3.0745 3.0752 3.0759 3.0767 3.0774 3.0781 3.0789 3.0796 3.0804 3.0811 3.0818 3.0826 3.0833 3.0840 3.0848 3.0855 3.0862 3.0870 3.0877 3.0885 3.0892 3.0899 3.0914 3.0907 3.0921 3.0929 3.0936 3.0943 3.0958 3.0951 3.0965 3.0973 3.0980 3.0988 3.0995 3.1002 3.1010 3.1017 3.1024 3.1032 3.1039 3.1046 3.1054 3.1069 3.1061 3.1076 3.1083 3.1091 3.1098 3.1105 3.1113 3.1120 3.1127 3.1135 3.1142 3.1150 3.1157 3.1164 3.1172 3.1179 3.1186 3.1194 3.1201 3.1208 3.1223 3.1216 3.1231 3.1238 3.1245 3.1253 3.1275 3.1267 3.1282 3.1260 3.1289 3.1297 3.1304 3.1311 3.1319 3.1326 3.1334 3.1341 3.1348 3.1356 3.1363 3.1370 3.1378 3.1385 3.1392 3.1400 3.1407 3.1415 3.1422 3.1429 3.1437 3.1444 3.1451 3.1459 3.1466 3.1473 3.1481 3.1488 3.1496 3.1503 3.1510 3.1525 3.1532 3.1540 3.1547 3.1518 3.1554 3.1562 3.1584 3.1569 3.1576 3.1591 3.1599 3.1606 3.1613 3.1621 3.1643 3.1628 3.1635 3.1650 ID=1 HYD NO=101 DA= .00151 SQ MI PER A=0PER B=4.1 PER C=17.4 PER D=78.5TP=-.137 MASSRAIN=-1

COMPUTE NM HYD

K = 0.074665HR TP = 0.137000HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428UNIT PEAK = 4.5534 CFS UNIT VOLUME = 0.9964 B = 526.28 P60 = 2.2300 $AREA^{2} = 0.001185 SQ MI IA = 0.10000 INCHES INF = 0.04000$ INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000

K = 0.117842HR TP = 0.137000HR K/TP RATIO = 0.860161 SHAPE CONSTANT, N = 4.134031UNIT PEAK = 0.86260 CFS UNIT VOLUME = 0.9857B = 364.01P60 = 2.2300AREA = 0.000325 SQ MI IA = 0.37860 INCHES INF = 0.91009INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000

ID=1 CODE=3PRINT HYD

> 101.00 PARTIAL HYDROGRAPH

A # 4 46 FLOW F (+ K # 15 m TIME FLOW TIME FLOW TIME Page 2

			AHYMO	. OUT		
TIME	FLOW HRS	CFS	FLOW HRS	CFS	HRS	CFS
HRS	0.000	0.0 ···	CFS 4.950	0.0	9.900	0.0
14.850	0.0 0.150	19.800 0.0	0.0 5.100	0.0	10.050	0.0
15.000	0.0 0.300	19.950 0.0	0.0 5.250	0.0	10.200	0.0
15.150	0.0 0.450	20.100 0.0	0.0 5.400	0.0	10.350	0.0
15.300	0.0 0.600	0.0	0.0 5.550	0.0	10.500	0.0
15.450	0.0 0.750	20.400 0.2	0.0 5.700	0.0	10.650	0.0
15.600	$0.0 \\ 0.900$	0.2	0.0 5.850	0.0	10.800	0.0
15.750	0.0 1.050	0.4	0.0 6.000	0.0	10.950	0.0
15.900	0.0 1.200	20.850 0.7	0.0 6.150	0.0	11.100	0.0
16.050	0.0 1.350	21.000	6.300	0.0	11.250	0.0
16.200	1.500	21.150 4.8	0.0 6.450	0.0	11.400	0.0
16.350	0.0 1.650	3.0	0.0 6.600	0.0	11.550	0.0
16.500	0.0 1.800	21.450 1.5	0.0 6.750	0.0	11.700	0.0
16.650	0.0 1.950	0.8	0.0 6.900	0.0	11.850	0.0
16.800	0.0 2.100	0.5 21.750	7.050	0.0	12.000	0.0
16.950	0.0 2.250	21.900 0.4	7.200	0.0	12.150	0.0
17.100	0.0 2.400	0.3 22.050	7.350	0.0	12.300	0.0
17.250	2.550	22.200 0.1	7.500	0.0	12.450	0.0
17.400	2.700 2.700	22.350 0.1	7.300 7.650	0.0	12.600	0.0
17.550	2.850	0.1	7.800	0.0	12.750	
17.700	2.030 0.0 3.000	0.1 22.650 0.1	7.800 0.0 7.950	0.0	12.730	0.0
17.850	3.000 3.000 3.150	0.1 22.800	7.930 0.0 8.100	0.0	13.050	
18.000	0.0	22.950	0.0			0.0
18.150	3.300 0.0	0.0	8.250	0.0	13.200	0.0
18.300	3.450 0.0	$\begin{array}{c} 0.0 \\ 23.250 \\ 0.0 \end{array}$	8.400 0.0	0.0	13.350	0.0
18.450	3.600 0.0	0.0	8.550 0.0	0.0	13.500	0.0
18.600	3.750 0.0	0.0	8.700 0.0	0.0	13.650	0.0
18.750	3.900 0.0	0.0	8.850	0.0	13.800	0.0
18.900	4.050	0.0 23.850	$9.000 \\ 0.0 \\ 1.50$	0.0	13.950	0.0
19.050	4.200	0.0	9.150	0.0	14.100	0.0
19.200	4.350	0.0 24.150	9.300 0.0	0.0	14.250	0.0

Page 3

		AHYMO OUT				• •		
•	4.500	0.0	9.450	0.0	14.400	0.0		
19.350	0.0	24.300	0.0					
Post out the Park	4.650	0.0	9.600	0.0	14.550	0.0		
19.500	0.0	• • •		****	• • • • • • • • • • • • • • • • • • • •			
	4.800	0.0	9.750	0.0	14.700	0.0		
19.650	0.0			- · ·				

RUNOFF VOLUME = 2.58163 INCHES = 0.2079 ACRE-FEET

PEAK DISCHARGE RATE = 4.78 CFS AT 1.500 HOURS BASIN AREA = 0.0015 SQ. MI.

* ROUTE THE TOTAL	FLOW THROUGH THE	PROPOSED RESERVO	OIR	
ROUTE RESERVOIR	ID=2 HYD NO=	102 INFLOW=1	CODE=3	
	OUTFLOW(CFS)	STORAGE(AC-FT)	ELEX(FT)	
	0.00	0.000	(1.32)	
-	0.78	0.000	₹,50 \	
	0.84	0.006	4.00	
	0.(92)	0.044	4.50	
		0.99	0.137	5.00

INFLOW TIME VOLUME **ELEV** OUTFLOW (HRS) (CFS) (FEET) (CFS) (AC-FT) 1.32 1.32 1.32 1.35 0.00 0.000 ~ 0.00 0.00 0.15 0.00 0.000 0.00 0.30 0.00 0.000 0.00 0.45 0.00 0.000 0.00 0.60 0.000 0.01 0.01 0.75 1.81 0.18 0.000 0.18 2.00 2.33 3.21 0.24 0.90 0.000 0.24 0.000 1.05 0.36 0.36 1.20 0.68 0.68 1.35 3.79 0.004 1.64 0.82 1.50 1.65 1.80 1.95 4.78 4.36 0.033 0.90 4.65 2.98 0.073 0.94 4.73 1.46 0.087 0.95 0.84 4.74 0.95 0.089 0.95 4.72 0.52 2.10 0.086 ²2.25 0.36 4.69 0.079 .0.95\ 0.94 4.65 2.40 0.26 0.071 2.55 4.60 0.93 0.14 0.062 2.70 0.08 4.54 0.052 0.93 4.47 2.85 0.07 0.041 0.91 4.33 0.89 3.00 0.05 0.031 3.15 4.19 0.021 0.87 0.05 4.06 3.30 0.85 0.04 0.011 0.001 3.57 3.45 0.79 0.04 3.60 1.32 0.000 0.04 ے 0.00

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4

•

			AHYMO. OUT	
3.75	0.04	1.54	0.000	0.08
3.90	0.04	1.32	0.000	0.00
4.05 4.20	0.04 0.04	1.53 1.32	$0.000 \\ 0.000$	$0.07 \\ 0.00$
4.35	0.04	1.52	0.000	0.07
4.50	0.04	1.32	0.000	0.00
4.65	0.04	1.52	0.000	0.07
4.80 4.95	0.04 0.04	1.32 1.52	$0.000 \\ 0.000$	0.00 0.07
5.10	0.04	1.32	0.000	0.00
5.25	0.04	1.52	0.000	0.07
5.40 5.55	0.04 0.04	1.32 1.52	$0.000 \\ 0.000$	0.00 0.07
5.70	0.04	1.33	0.000	0.00
5.85	0.04	1.53	0.000	0.07
6.00	0.04	1.33	0.000	0.00
6.15 6.30	0.02 0.01	1.48 1.32	$0.000 \\ 0.000$	$0.06 \\ 0.00$
6.45	0.01	1.39	0.000	0.03
6.60	0.01	1.32	0.000	0.00
6.75 6.90	$\begin{array}{c} 0.01 \\ 0.01 \end{array}$	1.39 1.32	$0.000 \\ 0.000$	0.02 0.00
7.05	0.01	1.38	0.000	0.02
7.20	0.01	1.32	0.000	0.00
7.35	0.01	1.38	0.000	0.02
7.50 7.65	$\begin{array}{c} 0.01 \\ 0.01 \end{array}$	1.32 1.38	$0.000 \\ 0.000$	0.00 0.02
7.80	$0.01 \\ 0.01$	1.32	0.000	0.00
7.95	0.01	1.38	0.000	0.02
8.10	0.01	1.32	0.000	0.00
8.25	0.01	1.38	0.000	0.02
TIME	INFLOW (CES)	(EEET)	VOLUME (AC-ET)	OUTFLOW
TIME (HRS)	INFLOW (CFS)	(FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
(HRS) 8.40	(CFS) 0.01	(FEET) 1.32	(AC-FT) 0.000	(CFS) 0.00
(HRS) 8.40 8.55	(CFS) 0.01 0.01	(FEET) 1.32 1.38	(AC-FT) 0.000 0.000	(CFS) 0.00 0.02
(HRS) 8.40	(CFS) 0.01	(FEET) 1.32	(AC-FT) 0.000	(CFS) 0.00
(HRS) 8.40 8.55 8.70 8.85 9.00	(CFS) 0.01 0.01 0.01 0.01 0.01	(FEET) 1.32 1.32 1.32 1.38 1.38	(AC-FT) 0.000 0.000 0.000 0.000	(CFS) 0.00 0.02 0.00 0.02 0.00
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(HRS) 8.40 8.55 8.70 8.85 9.00 9.15 9.30	(CFS) 0.01 0.01 0.01 0.01 0.01 0.01	(FEET) 1.32 1.38 1.38 1.38 1.38 1.38	(AC-FT) 0.000 0.000 0.000 0.000 0.000 0.000	(CFS) 0.00 0.02 0.00 0.02 0.00
(HRS) 8.40 8.55 8.70 8.85 9.00 9.15 9.30 9.45 9.60	(CFS) 0.01 0.01 0.01 0.01 0.01 0.01 0.01	(FEET) 1.32 1.38 1.38 1.38 1.38 1.38 1.32	(AC-FT) 0.000 0.000 0.000 0.000 0.000 0.000 0.000	(CFS) 0.00 0.02 0.00 0.02 0.00 0.02 0.00 0.02
(HRS) 8.40 8.55 8.70 8.85 9.00 9.15 9.30 9.45 9.60 9.75	(CFS) 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	(FEET) 1.32 1.38 1.38 1.38 1.32 1.38 1.38 1.38	(AC-FT) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	(CFS) 0.00 0.02 0.00 0.02 0.00 0.02 0.00 0.02
(HRS) 8.40 8.55 8.70 8.85 9.00 9.15 9.30 9.45 9.60 9.75 9.90	(CFS) 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	(FEET) 1.32 1.38 1.32 1.38 1.32 1.38 1.32 1.38 1.32	(AC-FT) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	(CFS) 0.00 0.02 0.00 0.02 0.00 0.02 0.00 0.02
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0.0894 AC-FT	INCREMENTAL TIME=	0.050000HRS
	1.38	1.32

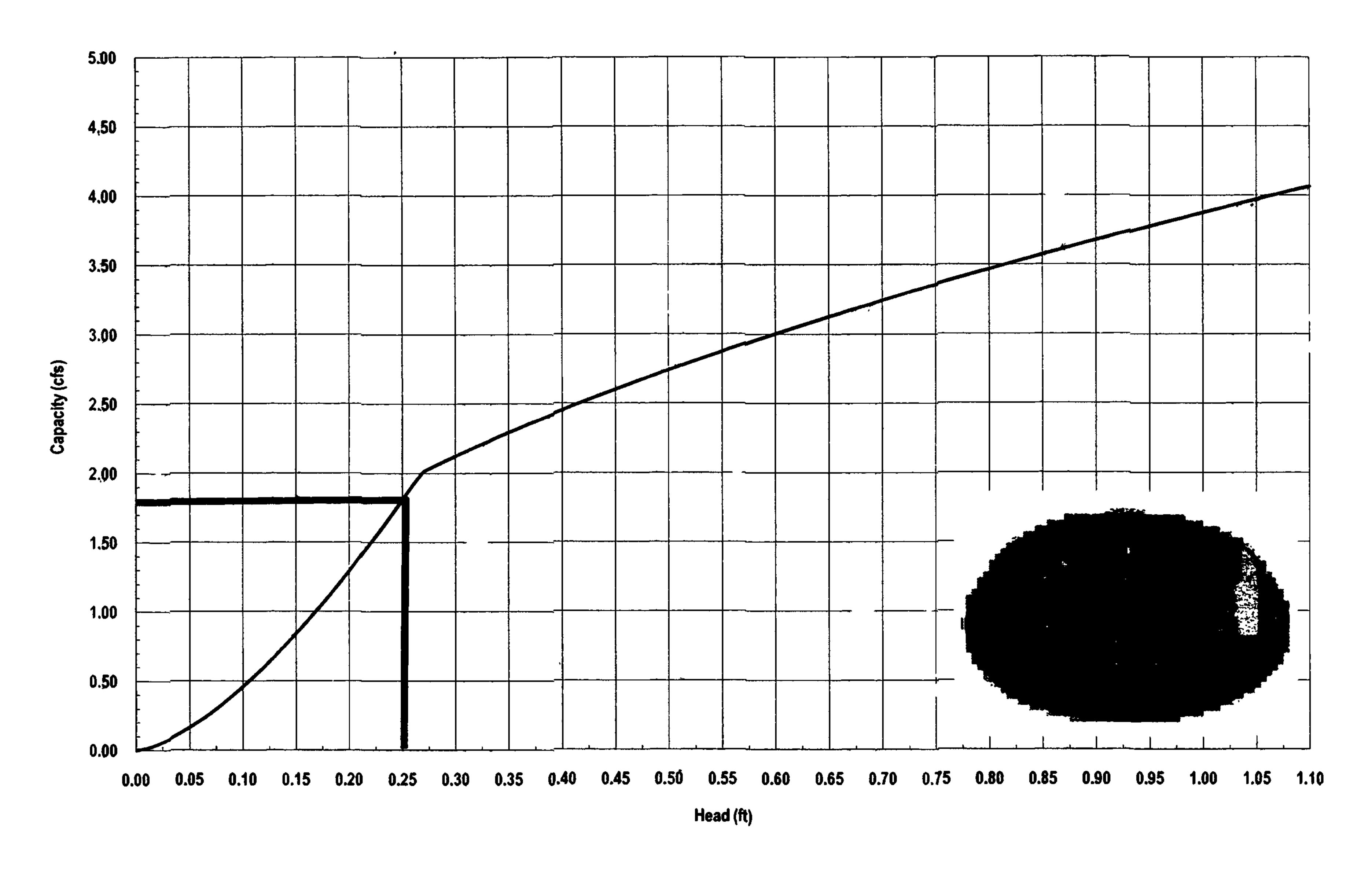
FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 20:16:39

APPENDIX C HYDRAULIC CALCULATIONS

Nyloplast 18" Standard Grate Inlet Capacity Chart





3130 Verona Avenue • Buford, GA 30518 (866) 888-8479 / (770) 932-2443 • Fax: (770) 932-2490 © Nyloplast Inlet Capacity Charts June 2012

Pipe Capacity

Pipe	D	Slope	Area	R	Q Provided	Q Required	Velocity
	(in)	(%)	(ft^2)		(cfs)	(cfs)	(ft/s)
12HDPE	12	2.75	0.79	0.25	5.13	1.85	2.36

Manning's Equation:

 $Q = 1.49/n * A * R^{2/3} * S^{1/2}$

A = Area R = D/4 S = Slope

n = 0.015

Channel Capacity

	Top Width	Bottom Width	Depth	Агеа	WP	R	Slope	Q Provided	Q Required	Velocity
	(ft)	(ft)	(ft)	(ft^2)	(ft)		(%)	(cfs)	(cfs)	(ft/s)
swale	3	0.25	1	1.63	3.65	0.4451606	2	6.65	5.73	3.53

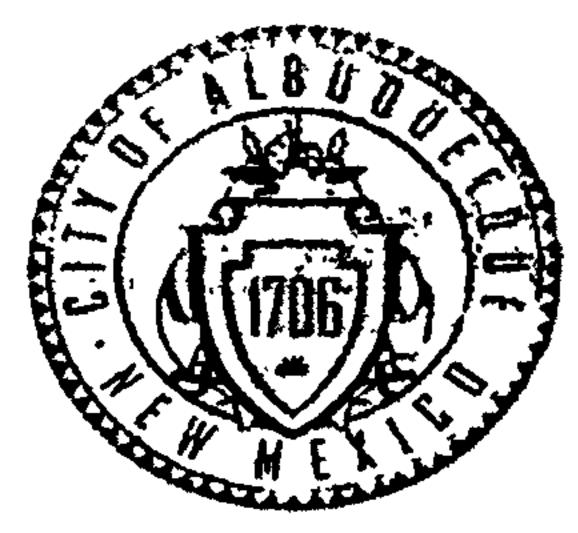
Manning's Equation:

 $Q = 1.49/n * A * R^{(2/3)} * S^{(1/2)}$

A = Area

R = D/4

S = Slope n = 0.03



City of Albuquerque

Planning Department

Project Title: LOMAS TOWNHOMES		Building Permit #.	TION SHEET (REV 09/2015) City Drainage #:
DRB#	EPC#		Work Order#:
egal Description: LOTS 2D1 AND 2E1	BLOCK 2A CHELWOOD PARK	<u> </u>	
ty Address: 12844 LOMAS NE			
ngineering Firm: RIO GRANDE EN	GINEERING		Contact: DAVID SOULE
ddress: PO BOX 93924, ALBUQUERO	· · · · · · · · · · · · · · · · · · ·		
hone#: 505.321.9099	Fax#, 505.872.0999	E	-mail: DAVID@RIOGRANDEENGINEERING.COI
wner: WORQUE LLC			Contact [,]
ddress:			
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HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT			MIT APPROVAL OF OCCUPANCY
YPE OF SUBMITTAL:		PRELIMINARY	PLAT APPROVAL
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	SEF 2 6 2016		OF FINANCIAL GUARANTEE PERMIT APPROVAL
DRAINAGE REPORT			MIT APPROVAL
CLOMR/LOMR UUL	DEVELOPMENT SECTION	X SO-19 APPROV	
1 . ANT	DEAFTOLIAGE	PAVING PERM	
•	4 1 1 1 . 6		CERTIFICATION
TRAFFIC CIRCULATION LAY		WORK ORDER A	APPROVAL
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TRAFFIC CIRCULATION LAY	•	CLOMR/LOMR	
•	•	CLOMR/LOMR	
TRAFFIC CIRCULATION LAY TRAFFIC IMPACT STUDY (TIS EROSION & SEDIMENT CONT	•	CLOMR/LOMR PRE-DESIGN ME	

COA STAFF

ELECTRONIC SUBMITTAL RECEIVED ____

Carrillo, Abiel X.

From:

Carrillo, Abiel X.

Sent:

Tuesday, November 15, 2016 10:32 AM

To:

David Soule

Subject:

K22D057 - Lomas Townhomes

David,

This email is being sent in lieu of a formal letter attached, to help expedite the review of initial submittals. A reply to this email will not replace a resubmittal.

Based on the information provided in your submittal, the above-referenced Grading and Drainage plan cannot be approved for Building/Grading Permit, or SO-19 Permit until the following comments are addressed:

- 1. The Grading Plan exhibit in the Report is different from the full size Plan submitted.
- 2. Since the alley is being utilized to drain a portion of the developed flows, it will need to be improved, at a minimum, with a shaped roadway section with a concrete alley gutter that extends to the Nakomi Dr pavement. Currently, the "alley" does not appear to be physically aligned or shaped to accept flows from this development. Erosion control would also need to be added to the outfall into Nakomi Dr.
- 3. Specify the size of the rock to be used. If larger rock is proposed, we recommend that it is placed over filter fabric.
- 4. Although cross-lot drainage is discouraged, it appears that the grading of the back yards drains away from the building and towards the retaining walls that will feature turned blocks that discharge to the alley. The plan includes a note to address any future walls that might be constructed by townhome owners, but those notes are not often referenced once the project is constructed. Will the turn blocks in the southern wall serve as an overflow if the side yard walls are not constructed to allow cross lot flows?
- 5. It's not clear if the main inlet in the center of the parking lot will be set at the bottom of the pond or elevated. If it is set at the bottom of the landscaped area, it should be surrounded with rip-rap.
- 6. An ESC Plan will need to be approved prior to Hydrology's approval (if one has already been submitted you can disregard this comment).

Any question just let me know.

Abiel Carrillo, PE, CFM

Principal Engineer - Hydrology
Planning Department
Development Review Services Division
City of Albuquerque
505-924-3986
acarrillo@cabq.gov
600 2nd Street NW
Albuquerque, NM 87102



City of Albuquerque

; lanning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: Townhouses for WORQUE, L.L.C.	Building Permit #:	City Drainage #: <u>L22D</u>
DRB#:		Vork Order#:
Legal Description: LOT 2D1A, BLOCK 2A, CHELLWOOD PARK SUBD.		
City Address: 12,844 LOMAS BLVD. N.E.		
Engineering Firm: RIO GRANDE ENGINEERING		Contact: DAVID
Address: 1606 CENTRAL AVE S.E., SUITE 201, ALBUQUERQUE, NEW MEXICO	· · · · · · · · · · · · · · · · · · ·	
Phone#: 505-872-0999 Fax#: -		-mail: david@riograndeengineering.com
Owner: WORQUE, L.L.C.		Contact: ROB
Address: 25 FOREST VIEW DRIVE, ALBUQUERQUE, NEW MEXICO 87122		
Phone#: 505-220-1457 Fax#: -	E	-mail: rob@worque.net
Architect: ROGER CINELLI& ASSOCIATES INC		Contact: ROGER
Address: 2418 MANUEL TORRES LN N.W. ALBUQUERQUE, NEW MEXICO 8710		
Phone#: 505-243-8211 Fax#: 505-243-8196		-mail: rcinelli@q.com
Other Contact:		Contact:
Address:	- · · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • •
Phone#:	E	E-mail:
DEPARTMENT: HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT CONTROL TYPE OF SUBMITTAL: ENGINEER/ ARCHITECT CERTIFICATION	X_BUILDING PERCERTIFICATEPRELIMINARYSITE PLAN FOR	OF OCCUPANCY PLAT APPROVAL R SUB'D APPROVAL
CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT CLOMR/LOMR	FINAL PLAT A SIA/ RELEASE FOUNDATION GRADING PER TION SOLID APPROV	OFFINANCIAL GUARANTEE PERMIT APPROVAL MIT APPROVAL /AL
TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS) EROSION & SEDIMENT CONTROL PLANCESCO	GRADING PERM GRADING/ PAI WORK ORDER A CLOMR/LOMR	O CERTIFICATION APPROVAL
OTHER (SPECIFY);	X_ PRE-DESIGN MEOTHER (SPECI	
IS THIS A RESUBMITTAL?: YesX_ No		
DATE SUBMITTED: 10/5/16 By: Roger Cinelli	Architect	
	•	

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ____

CITY OF ALBUQUERQUE



October 14, 2016

Roger Cinelli & Associates Inc. Roger Cinelli 2418 Manuel Torres Ln. N.W. Albuquerque, NM 87107

Re:

Townhouses for Worque, LLC

12844 Lomas

Traffic Circulation Layout

Engineer's/Architect's Stamp 10-05-2016 (K22-D057)

Dear Mr. Cinelli,

Based upon the information provided in your submittal received 10-14-16, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

- 1. Please show dimensions on the stairs from the public ROW to BLDG. "D".
- 2. Per the zoning code, a 6 ft. wide ADA accessible pedestrian pathway is required from the public sidewalk to the building entrances. Please clearly show this pathway and provide details.
- 3. Provide a min 6" or max 8" high concrete barrier curb or other acceptable barrier between landscaping, parking areas and sidewalks. Please call out detail and location of barrier curb.

Albuquerque

PO Box 1293

Resubmit a revised plan along with fully completed Drainage Transportation Information Sheet to front counter personnel for log in and evaluation by Transportation. PDF copies of the plans and submittal package must be emailed to PLNDRS@cabq.gov at time of resubmittal. If you have any questions, please contact me at (505) 924-3630.

www.cabq.gov

New Mexico 87103

Sincerely,

Logan Patz

Senior Engineer, Planning Dept. Development Review Services

LWP via: email

C:

File