Planning Department Brennon Williams, Interim Director



Mayor Timothy M. Keller

August 22, 2019

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

RE: Swim Labs 8110 Holly Ave NE Grading Plan Stamp Date: 8/13/19 Drainage Report Stamp Date: 8/13/19 Hydrology File: C20D082

Dear Mr. Goodwin:

PO Box 1293 Based on the submittal received on 8/13/19, the grading plan and drainage report cannot be approved until the following are corrected:

Provide written and signed permission from the owner of Tract B for the grading, paving and pond construction on their property. Unfortunately the cross-lot drainage easement does not grant the right to perform work on their property, only to discharge to it. (A permanent pond covenant will also be needed from this owner prior to CO; you may want to get it now).
 NM 87103
 Permissive discharges from the two sites need to be coordinated and included in the agreement as well (1.86cfs max combined).

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Rainfall amounts need to be input as: 0.0, 1.82, 2.45, 2.86, per the Atlas 14 printout and the AHYMO user manual. Rainfall Type needs to be 2, for a 24-hr storm. You cannot just reduce the rainfall for the 100-yr storm; the pond discharge tables need to include the dead storage for the SWQ volume so the entire 100-yr storm may be modeled and routed.

3. For Information. Hydrology recommends against using the parking lot as dead storage for ponding water (Pond 2).

4. As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Curtis Cherne, PE, ccherne@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

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

Planning Department Brennon Williams, Interim Director



Mayor Timothy M. Keller

Sincerely,

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

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



City of Albuquerque

Planning Department Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Swim Labs	Building Per	rmit #:Hydrology File #:
DRB#:	EPC#:	Work Order#:
Legal Description: <u>Tract C Block</u>	19 Plat of Tracts A,B	,C,D,E and F, Block 19 Tract 3 Unit 3 North Albuquerqu
Acres Cont7576 AC		
City Address: 8110 Holly Ave, Albu	querque, NM 87122	
Applicant: Mullen Heller Architect	ire	Contact: Doug Hell
Address: 1718 Central Avenue		
Phone#: 505-268-4144	Fax#	E-mail: <u>doug@mullenheller.com</u>
Other Contact: <u>Mark Goodwin & A</u>	ssociates, PA	Contact: Cory Pierce
Address: PO BOX 90606, Albuquerqu	e, NM 87199	
Phone#: <u>828.2200</u>	Fax#:	E-mail: <u>cory@goodwinengineers.com</u>
TYPE OF DEVELOPMENT:	PLAT (# of lots)	RESIDENCEDRB_SITEX_ADMIN_SITE
IS THIS A RESUBMITTAL? X	_YesNo	
DEPARTMENTTRANSPORTA	ΓΙΟΝ <u>X</u> HYDR	OLOGY/DRAINAGE
Check all that Apply:		TYPE OF APPROVAL/ACCEPTANCE SOUGHT: BUILDING PERMIT APPROVAL
TYPE OF SUBMITTAL:		CERTIFICATE OF OCCUPANCY
ENGINEER/ARCHITECT CERTIF	ICATION	
PAD CERTIFICATION		
CONCEPTUAL G & D PLAN		
X GRADING PLAN		
X DRAINAGE REPORT DRAINAGE MASTER PLAN		FINAL PLAT APPROVAL
FLOODPLAIN DEVELOPMENT P		

DATE SUBMITTED: August 13, 2019 By: Cory Pierce

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED:

.....

FEE PAID:

dmg

D. Mark Goodwin & Associates, P.A. Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199 (505) 828-2200 FAX 797-9539

> ~ 2012 ACEC/NM Award Winner for Engineering Excellence ~ ~ 2008 ACEC/NM Award Winner for Engineering Excellence ~ ~ 2017 ENR Landscape/Urban Development Award of Merit~ ~ 2018 ENR Residential/Hospitality Award of Merit~

August 13, 2019

Dana Peterson, PE City of Albuquerque 600 2nd Street SW Albuquerque, NM 87102

RE: Swim Labs Grading and Drainage Plan Hydrology File: C20D082

Dear Mr. Peterson,

In response to correspondence dated Aug 2, 2019, please find enclosed submittal. Comments are addressed as follows:

- 1. A retaining wall section is provided with the proposed retaining wall and property line, with proposed and existing grades.
- 2. It is noted on the plans that the Contractor is to provide written permission from the adjacent property Owner for any disturbance required for construction.
- 3. The retaining wall layout was adjusted to parallel the existing storm drain and not cross it. A detail demonstrating the worst-case proximity to the existing storm drain is provided.
- 4. Written and signed permission from the Owner of Tract B for the grading, paving, and pond construction on their property, and for both property discharges to be treated as one, is being coordinated and will be provided as soon as possible.
- 5. The existing survey and proposed work is shifted (2.48' higher) to NAVD88 datum. The prior survey to the As-Built survey provided an elevation benchmark of 5476.70 for Albuquerque Control Station "6-C19". Per the COA website the "6-C19" control station NAVD88 elevation is 5479.18. A site specific Horizontal datum may be established in the field utilizing a benchmark such as a property corner.
- 6. The proposed contours are cleaned up and shifted 2.48' higher.
- It is noted that Hydrology recommends against using the parking lot as dead storage for ponding water.
- 8. The sidewalk culvert is changed to a drain line through curb with the SO-19 notes on the Grading and Drainage plan.
- 9. The design is being coordinated with the property Owners. Per design of both Tracts B and C, there are three discharge locations as indicated. The total discharge of both lots (1.86 cfs) was distributed to each discharge location. Distributed discharge proportional to tributary area to

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each discharge location was evaluated and targeted. However; as the permanent north Tract B pond receives flow from both Tract B and C and has plan area constraints, a higher discharge than proportional to tributary area is calculated. The conceptual southwest Tract B pond is shown for information only with an allowable discharge of 0.66 cfs as the remainder from the total of 1.86 cfs. By area proportion, the allowable discharge was evaluated at 0.69 cfs, quite close to the allowable discharge evaluated (0.66 cfs). Agreement for the allocated discharge for both properties to be treated as one (1.86 cfs) will be coordinated and will be included in the agreement for the grading, paving, and pond construction.

- 10. The open channel and the non-standard plate detail is removed. The <u>through curb</u> drain is extended 1' offset the sidewalk edge to a concrete weir box for the detention pond design.
- 11. Weir calcs are provided in the discharge tables in the supplemental information. A weir coefficient of 2.7 is utilized. Both weirs and ponds were re-evaluated and the weirs were changed. The discharge is distributed as aforementioned (item #9).
- 12. Rainfall was changed to Type 2. The rainfall amounts are revised and mitigated to deduct the spread of the stormwater quality retention over the whole basin area, both impervious and pervious. The storm water quality retention is the capture of the 90% rainfall event and is significant to mitigation of 100yr discharge.
- 13. The bulking factor was removed for the developed site.
- 14. The storage discharge tables for both ponds reflect zero discharge until the outfall elevation is reached. In order to account for storm water quality treatment retention, either mitigation of rainfall (this analysis) or a discharge table with minimal increasing discharge modeled over the retention elevations due to infiltration is needed in the AHYMO analysis.
- 15. The pond outfalls are sized using weir calculations with a weir coefficient of 2.7 and are included in the supplemental information.
- 16. A foundation permit for this project is desired at this time.
- With this swim labs project, the area of disturbance is estimated at 0.80 acres as delineated on the plan.

Please review and approve the submittal for the requested permits.

Sincerely, MARK GOODWIN & ASSOCIATES, PA

Cary D. Preru, PE

Cory D. Pierce, PE Staff Engineer

Enclosures:

-Revised Grading and Drainage Plan and
-Bound AHYMO information with Furrs/ Paseo del Norte drainage report
-Boundary Survey and ALTA/ NSPS Land Title Survey for Tracts B and C

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Ventura Swim Labs AHYMO ANALYSIS COA Hydrology File: C20D082

Prepared For:

Mullen Heller Architecture 1718 Central Avenue, SW, Ste D Albuquerque, NM 87104 (505) 268-4144

Prepared By:

Mark Goodwin & Associates, PA PO BOX 90606 Albuquerque, NM 87199 (505) 828-2200



D, MARK GOODWIN & ASSOCIATES

Ventura Swim Labs AHYNO ANALYSIS COA Hydrology File: C200082

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Table of Contents

Hydrology Comment Letter dated Aug 2, 2019 Hydrology Comment Letter dated July 10, 2019 Zone Atlas 14 Location Rainfall Data Discharge Distribution and Pond Volume Weir Discharge Tables AHYMO Input AHYMO Summary AHYMO Output Channel Report (4" PVC Pipe) 2000 Furrs/ Paseo Del Norte File

Table of Contents

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Planning Department Brennon Williams, Interim Director



Mayor Timothy M. Keller

August 2, 2019

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

RE: Swim Labs 8110 Holly Ave NE Grading Plan Stamp Date: 7/19/19 & 7/24/19 Drainage Report Stamp Date: 7/25/19 Hydrology File: C20D082

Dear Mr. Goodwin:

PO Box 1293 Based on the submittal received on 7/25/19, the grading plan and drainage report cannot be approved until the following are corrected:

Provide sections through the east boundary showing the proposed retaining wall, property lines, existing and proposed grades. In accordance with DPM Ch.22, section 5 part B, grading and wall construction near the property line may not endanger adjacent property or constrain its use.

NM 87103

2. Any private encroachment into neighboring private property will require written and signed permission from both property owners.

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3. Include a detail where the retaining wall crosses over the private storm drain; ensure adequate clearance.

- 4. Provide written and signed permission from the owner of Tract B for the grading, paving and pond construction on their property. Unfortunately the cross-lot drainage easement does not grant the right to perform work on their property, only to discharge to it. (A permanent pond covenant will also be needed from this owner prior to CO; you may want to get it now)
- 5. Provide project datum. This needs to be on the plan where the benchmark is cited. The benchmark, existing survey, and proposed work all need to be converted to NAVD88 and NAD 83.
- 6. The proposed contours need to be cleaned up. For instance, the 54' contour cuts through the building (FF=55'), the 53' contour seems to be missing, and there appear to be different contours used for the ponds that don't tie-in to anything.

Planning Department Brennon Williams, Interim Director



Mayor Timothy M. Keller

- 7. Hydrology recommends against using the parking lot as dead storage for ponding water (Pond 2).
- 8. An SO-19 Permit will be required for the sidewalk culvert and should be included on the request. Please include the <u>standard SO-19</u> notes on the grading plan.
- 9. Discharge from this site needs to be limited to 0.93cfs per the approved master plan; do not rob capacity from the adjoiner (Pad 1).
- 10. Remove the open channel and extend the plate to the curb and 1' beyond back of sidewalk; also remove the non-standard plate detail and build per Std Dwg 2236.
- 11. Please provide the weir calculations, per DPM Chapter 22.3.A.1, for the sidewalk culvert. A coefficient of 2.7 is typically used for the weir equation $Q = CLH^{2/3}$. Be sure to size for future developed flow (1.16cfs).
- 12. Rainfall amounts need to be input as: 0.0, 1.82, 2.45, 2.86, per the Atlas 14 printout and the AHYMO user manual. Rainfall Type needs to be 2, for a 24-hr storm.
- 13. You don't need to bulk for sediment in a developed site.
- Albuquerque 14. The storage-discharge tables for all ponds need to reflect zero discharge until the outfall elevation is reached. The City does not accept infiltration as an outfall or credit it in pond sizing.
- NM 87103 15. All pond outfalls need to be sized using the appropriate hydraulic calculations (weir, orifice equations) and those elevation-discharge tables and calculations need to be included.

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- 16. Do you need Building Permit approval at this time? Or just Site-Plan and Grading/Paving?
 - 17. As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Curtis Cherne, PE, ccherne@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

Planning Department Brennon Williams, Interim Director



Mayor Timothy M. Keller

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

Sincerely,

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

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

dmg

D. Mark Goodwin & Associates, P.A. Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199 (505) 828-2200 FAX 797-9539

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July 25, 2019

Dana Peterson, PE City of Albuquerque 600 2nd Street SW Albuquerque, NM 87102

RE: Swim Labs Grading and Drainage Plan Hydrology File: C20D082

Dear Mr. Peterson,

In response to correspondence dated July 10, 2019, please find enclosed submittal. Comments are addressed as follows:

- 1. Proposed contours, water blocks, and spot elevations are included to establish finish drainage of the site.
- 2. A water block is included at the north driveway.
- 3. AHYMO sub basins are delineated and additionally labeled with the AHYMO ID number.
- 4. The drainage plan addresses onsite and upstream offsite drainage. Offsite drainage is addressed with more references to the Furrs/ Paseo drainage report.
- The Tract B storm water quality pond is revised to be the permanent pond to serve Tract B development.
- 6. There already exists an existing blanket easement for ingress, egress, drainage and pedestrian. Please see the enclosed ALTA Survey.
- 7. The project datum is NAD27 horizontal and NAVD29 vertical.
- The complete, bound, AHYMO input and output files are provided with the NOAA atlas 14 rainfall data and the Furrs/ Paseo drainage report.
- 9. NOAA atlas 14 precipitation data was used with AHYMO-S4.
- The outfall for the pond on Tract B is revised to go through a weir plate, into a sidewalk culvert, into Holly Avenue.
- 11. The site downstream capacity is referenced from the Furrs/ Paseo drainage report.
- 12. The Furrs/ Paseo drainage report is provided in the bound information.
- 13. There already exists an existing blanket easement for ingress, egress, drainage, and pedestrian. Please see the enclosed ALTA Survey.
- 14. The total area of disturbance is estimated and delineated on the plan to be about 0.80 AC.

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Please review and approve the submittal for the requested permits.

Sincerely, MARK GOODWIN & ASSOCIATES, PA

Com DPien, PF.

Cory D. Pierce, PE Staff Engineer

Enclosures:

-Revised Grading and Drainage Plan

-Bound AHYMO information with Furrs/ Paseo del Norte drainage report -Boundary Survey and ALTA/ NSPS Land Title Survey for Tracts B and C

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Planning Department Brennon Williams, Acting Director



Mayor Timothy M. Keller

July 10, 2019

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

RE: Swim Labs 8110 Holly Ave NE Grading Plan Stamp Date: 6/24/19 Hydrology File: C20D082

Dear Mr. Goodwin:

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Based on the submittal received on 6/25/19, the grading and drainage plan cannot be approved until the following are corrected:

- 1. Provide proposed contours and proposed spot elevation in sufficient density to ascertain the proposed drainage pattern of the site.
- 2. A waterblock is likely required near the north driveway to ensure flows are routed to the tract B pond.
- 3. Subbasins need to be delineated and modeled in AHYMO or with the 40-acres-or-less method and must include all onsite drainage and upstream offsite flows.
- 4. The drainage plan must address all onsite drainage and upstream offsite drainage, not just the parking lot and building.
 - 5. Remove the temporary markings from the tract B stormwater quality pond; these features are permanent and will need to be protected with a drainage covenant, signed by the underlying property owner.
 - 6. Provide written and signed permission from the owner of Tract B for the grading, paving and pond construction on their property.
 - 7. Provide project datum.
 - 8. The complete AHYMO input and output files need to be provided, not just the summary. If you provide these separately, they must be bound and stamped by the engineer.

Planning Department Brennon Williams, Acting Director



Mayor Timothy M. Keller

- 9. With AHYMO S4, be sure to use NOAA Atlas 14 precipitation depths in conjunction with the NOAA Atlas 14 distribution. Include the location map and tables obtained from the NOAA website. Using the NOAA Atlas 2 Precipitation depths (Found in the DPM), with the NOAA Atlas 14 Distributions results in an over-prediction of peak runoff (Q₁₀₀). See <u>AHYMO AppNote-01</u>, and the Hydrology website for more information regarding this.
- 10. The outfall for pond B is unclear. The AHYMO run seems to indicate a continuous outflow, but the obvious outfall is the drive entrance that has a crest elevation at 54.12'. The City does not accept infiltration as an outfall or credit it in pond sizing as pond bottoms generally silt-in and reduce the infiltration rate to nearly nothing.
- 11. The site must demonstrate adequate downstream capacity per § 14-5-2-12(G) of the Albuquerque Code of Ordinances.
- 12. Provide the Furrs Paseo del Norte drainage report and Hydrology approval letter. This report is missing in our database and needs to be recovered if it is to be used as the basis for this development.

PO Box 1293

- 13. Provide a cross lot drainage easement (paper or Plat) between the two tracts.
- Albuquerque
 14. As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Curtis Cherne, PE, ccherne@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

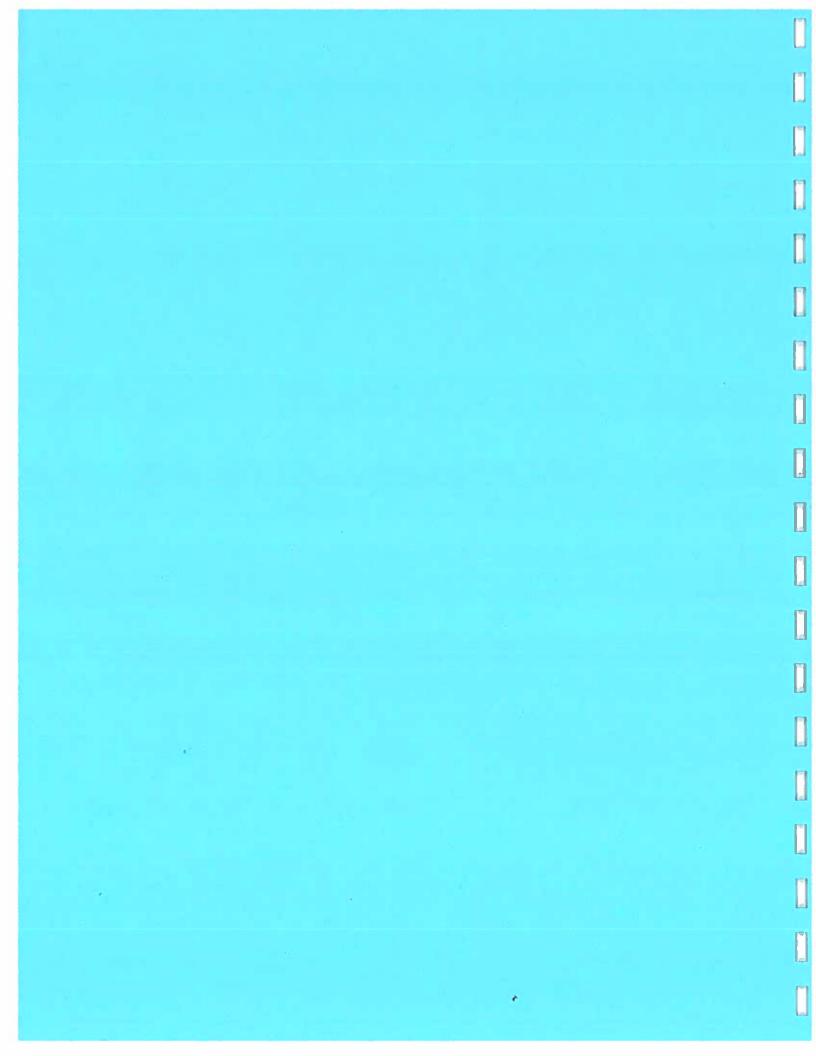
If you have any questions, you can contact me at 924-3695 or dpeterson@cabq.gov.

www.cabq.gov

Sincerely,

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

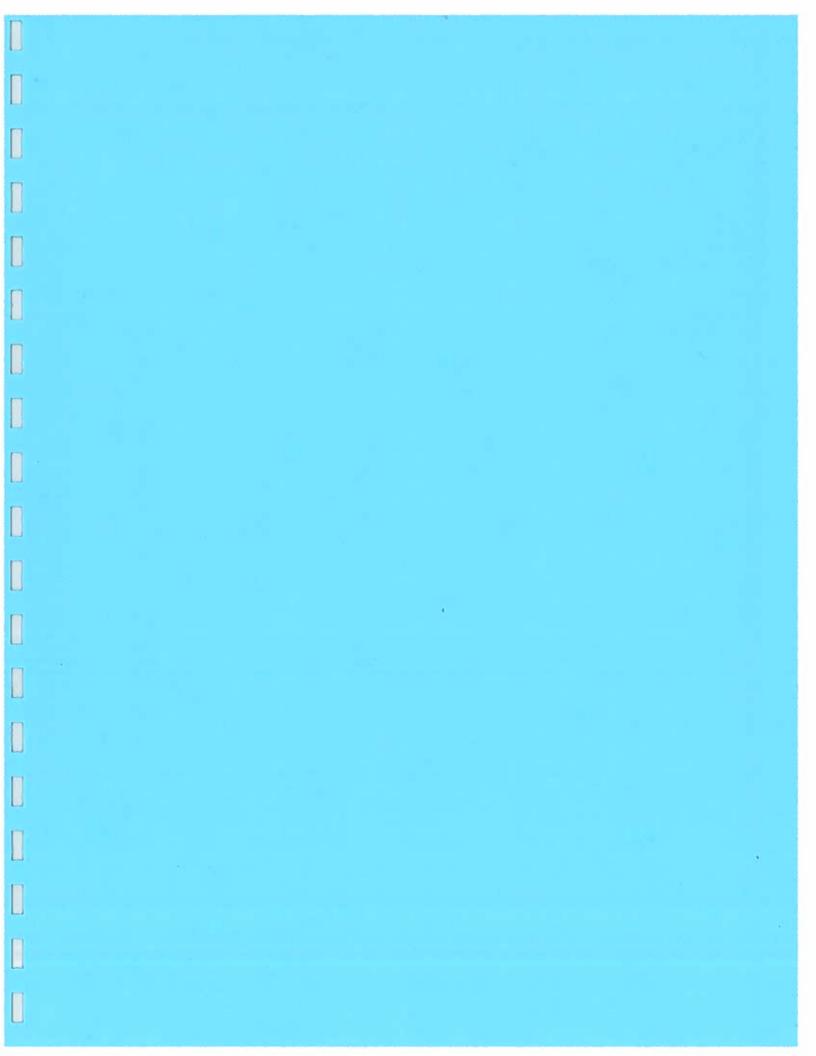


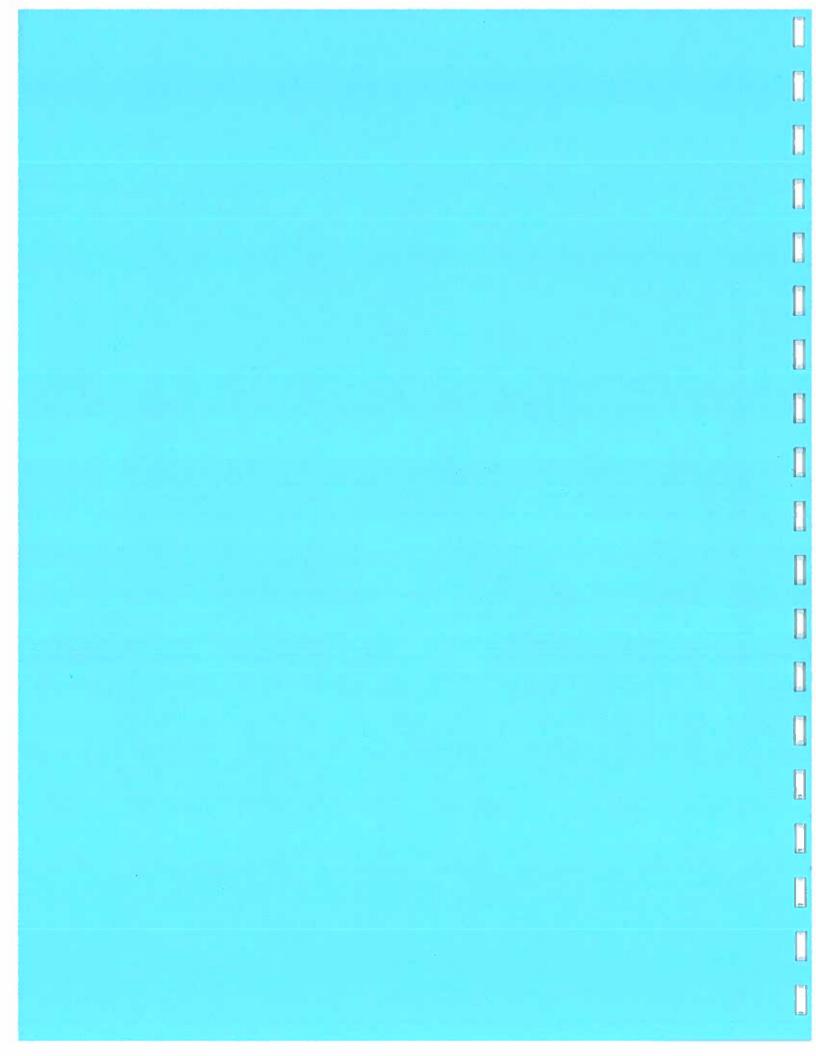


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2.5745 2.5761	.579	.582	.583	.587	.588	.590	.592	. 593	. 595	. 596	. 598	. 600
2.5742	.579.	.580	. 583. . 585	.587	.588	. 590	.591	,593	. 595	.596	. 598	.599
2.5740 2.5756	.578	.580	.583.	.586	• 588	. 590	.591	.593	.594	.596	.597	.599
2.5738 2.5754	577	.580	.583 .584	.586	.588	- 589	±591	.592	.594	.596	. 597	.599
2.5736 2.5752	.576	.581	.583	.586	.587	.589	+591	.592	.594	.595	+597	.599
2.5733 2.5749	.576	.539	.582	.586	.587	.589	.590	.592	.594	.595	.597	.598
2.5731	.576	.579	.582	. 585	.587	.589	.590	.592	.593	.595	. 597	• 598

ID=2 HYD=202 AREA=0.00086 SQ MI A B C D 30 0 070 *S BASIN #2 (Pad #2_South Detention Fond) COMPUTE NM HYD

TP=0.13333 MASSRAIN=-1

K = 0.072665HR TP = 0.133330HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428 UNIT PEAK = 2.3762 CFS UNIT VOLUME = 0.9947 B = 526.28 P60 = 1.5600 AREA = 0.000602 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.010000 K = 0.072665HR TP = 0.133330HR K/TP RATIO = 0.545000 UNIT PEAK = 2.3762 CFS UNIT VOLUME = 0.9947 B = AREA = 0.000602 SQ MI IA = 0.10000 INCHES INF =

 K = 0.171537HR
 TP = 0.133330HR
 K/TP RATIO = 1.286563
 SHAPE CONSTANT, N = 2.781350

 UNIT PEAK = 0.50986
 CFS
 UNIT VOLUME = 0.9696
 B = 263.49
 P60 = 1.5600

 AREA = 0.000258
 0.000258
 SQ MI
 IA = 0.65000
 INCHES
 INF = 1.67000
 INCHES
 PER HOUR

 RUNOFF
 COMPUTED
 BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.010000

ID=2 CODE=1 PRINT HYD PARTIAL HYDROGRAPH 202.00

1.530 HOURS BASIN AREA = 0.0009 SQ. MI. 0.0818 ACRE-FEET 1.70 CFS AT II 1.78433 INCHES PEAK DISCHARGE RATE = RUNOFF VOLUME =

5556.21 5556.33 ELEV (FT) 5556.28 STORAGE (AF) 0.0000 0.0028 0.0063 0.0117 ID=4 HYD NO=POND.OT INFLOW=2 CODE=24 OUTFLOW (CFS) 0.00 0.10 0.22 0.41 ROUTE RESERVOIR

5556.39

0.0194 0.0312 0.0403 0.0575																																									
68 37 91		OUTFLOW (CFS)			20	20	20	1	с,	00	5	4	m, i	Ţ.,		0.1	°, '	P 0	29		0	0	0.02	0	0	°.	•	<u>,</u>	2.0		0	2 9	0	9	0	C.	2	0	0	0	
0	* * *	VOLUME (AC-FT)	0				00	8	80.	.02	. 02	.01	00.	00.	00.	8.	00.	2.0	3 8		00	00	0.000	00.	.00	80.	00	00.	00.	38		200	00.	00	00	00	00	00.	00-	00.	2
	*	ELEV (feet)	0.000	2 - 0 - 0 1 - 0 - 0 1 - 0 - 0		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	556.2	556.2	556.3	556.5	556.4	556.4	556.3	556.3	556.2	556.2	556.2	2.900	556.2 556.3	2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	556.2	556.2	5556.22	556.2	556.2	556.2	556.2	556.2	1.00 1.0 1.0	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	556.0	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	
	*	INFLOW (CFS)	<	20	, c	2	2 -	2	0	σ.	e,	-	- '	P '	0,0	•	0.0	0,0	20	20	0	0	0.02	0	0.	ο.	0.	0.0	2.0	20		20	0	C	20	C	0	0	0	0	
	* *	TIME (HRS)	<	5 c	1 4	1º [~	- 0	2	4.	9	σ.	5	4	9	œ.	7.7	~ '	0.0	p c	, w		00	5.04	2	\$	r.	0	0.1	4 C	. 0	10	4	. 9	σ) -	4	9	00			2

5556.46 5556.55 5556.61 5556.71

	OUTFLOW CFS) (CFS) 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	00000000
	VOLUME (AC-FT) 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	000000000000000000000000000000000000000
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			HOUR 1 NTAL TIME=
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0.01		0.0000000000000000000000000000000000000	
004-	21.36 21.60 21.84 22.08 22.32	22.56 22.80 23.04 23.52 23.52 23.52 23.52	

ID=4 CODE 1

PRINT HYD

HYDROGRAPH FROM AREA POND, OT

0.010000HRS

BASIN AREA = 0.0009 SQ. MI. 0.0818 ACRE-FEET 1.700 HOURS 0.84 CFS AT H PEAK DISCHARGE RATE = 1.78399 INCHES

*S BASIN #1 (Pad #1_North Detention Pond) COMPUTE NM HYD 1D=1 HYD=203 AREA=0.00023 SQ MI A B C D 15 0 0 85 TP=0.13333 MASSRAIN=-1

 K = 0.072665HR
 TP = 0.133330HR
 K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428

 UNIT PEAK = 0.77167
 CFS
 UNIT VOLUME = 0.9833
 B = 526.28
 P60 = 1.5600

 AREA = 0.000196
 NIT IA = 0.10000
 INCHES
 INF = 0.04000
 INCHES
 PR

 REA = 0.000196
 NIT IA = 0.10000
 INCHES
 INF = 0.04000
 INCHES
 PR

 RUNOFF
 COMPUTED
 DY INITIAL ABSTRACTION/INFILTRATION
 NUMBER
 DT = 0.010000

 K = 0.072665HR TP = 0.13330HR K/TP RATIO = 0.545000 UNIT PEAK = 0.77167 CFS UNIT VOLUME = 0.9833 B = AREA = 0.000196 SQ MI IA = 0.10000 INCHES INF = 0

 K = 0.171537HR
 TP = 0.133330HR
 K/TP RATIO = 1.286563
 SHAFE CONSTANT, N = 2.781350

 UNIT
 PEAK = 0.68180E-01CFS
 UNIT VOLUME = 0.8505
 B = 263.49
 P60 = 1.5600

 AREA = 0.000035
 SQ MI
 IA = 0.65000
 INCHES
 INF = 1.67000
 INCHES
 P60 = 1.5600

 AREA = 0.000035
 SQ MI
 IA = 0.65000
 INCHES
 INF = 1.67000
 INCHES
 PER HOUR

 RUNOFF
 COMPUTED
 DY INITIAL
 ABSTRACTION/INFILFRATION
 NUMBER
 METHOD - DT = 0.010000

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 203.00

0.0253 ACRE-FEET 1.530 HOURS BASIN AREA = 0.0002 SQ. MI. RUNOFF VOLUME = 2.06285 INCHES = PEAK DISCHARGE RATE = 0.52 CFS AT

5551,23 45																		
ELEV(FT) 5551.34 5551.57 5551.68 5551.79 5551.90																		
CODE=24 STORAGE (AF) 0,0000 0,0009 0,0019 0,0019 0,0029 0,0029 0,0039 0,0050 0,0050																		
INFLOW (CFS)	* * * * OUTELOW (CFS)	0,000	0.00	0.04	0.35	0.10	00	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.0	10+0
NO=POND,OT INF OUTFLOW 0,00 0.03 0.03 0.07 0.14 0.14 0.14 0.21 0.21 0.29 0.29	* * * * * VOLUME 0	000000000000000000000000000000000000000	0 000	0.001	0.006	0.002	0.001	000.0	0000	00000	0 000	0 . 000	0000	0.00	000*0	000 + 0	0.000	0.000
TD=5 HYD	* * * ELEV (FEET)	5551 23 5551 23 5551 23	5551.24 5551.29	551.35 551.55	5551.86 5551.66	551.50	5551.36 5551.36	551.29	551.26	551.26 551.25	551.25	551.25	5551.25 5551.25	551.25	551.25	551.25	551.2	5551.25
е,	* * * * INFLOW (CFS)									0,01			0.01				_, .	0.00
ROUTE RESERVOIR	* * * * TIME (HRS)	0.00	0.72	1.20 1.44	1.68	2.16	2.64 2.88	3.12	3.60	3,84	4 32	4 . 56	4.80	5 28	5.52	5.76	0	6 + 24

PEAK DISCHARGE = 0.360 CFS - PEAK OCCURS AT HOUR 1.64 MAXIMUM WATER SURFACE ELEVATION = 5551.875 MAXIMUM STORAGE = 0.0058 AC-FT INCREMENTAL TIME- 0.010000HRS

ID=5 CODE 1

PRINT HYD

HYDROGRAPH FROM AREA POND.OT

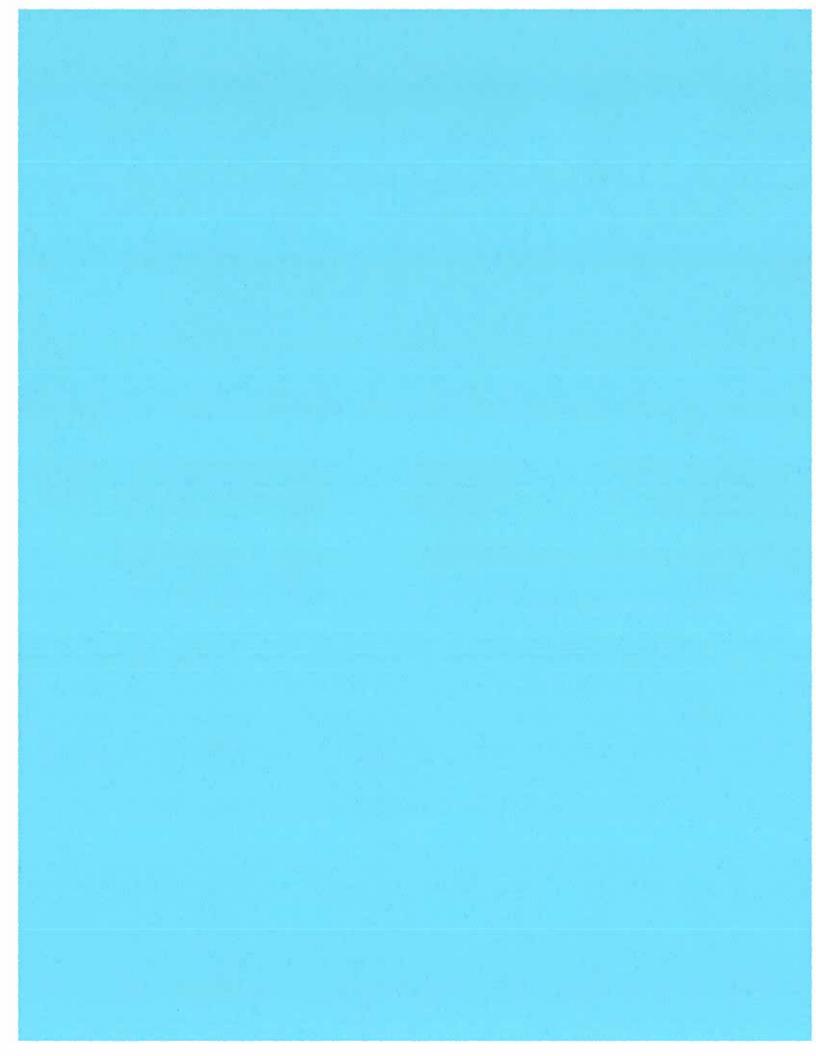
RUNOFF VOLUME = 2.06200 INCHES = 0.0253 ACRE-FEET PEAK DISCHARGE RATE = 0.36 CFS AT 1.640 HOURS BASIN AREA = 0.0002 SQ. MI.

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 16:03:42

-(s10H



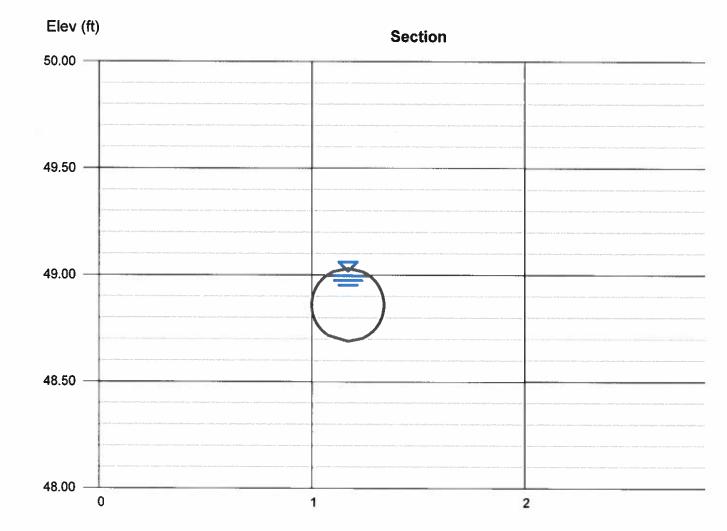


Channel Report

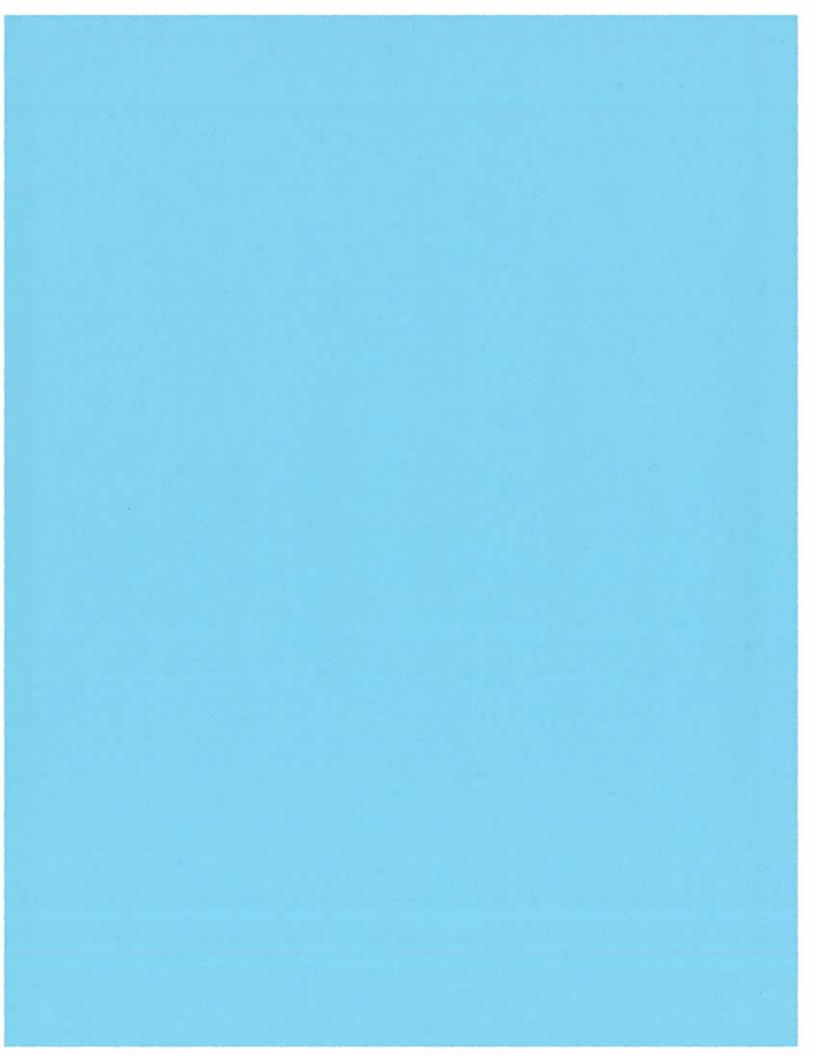
Hydraflow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc.

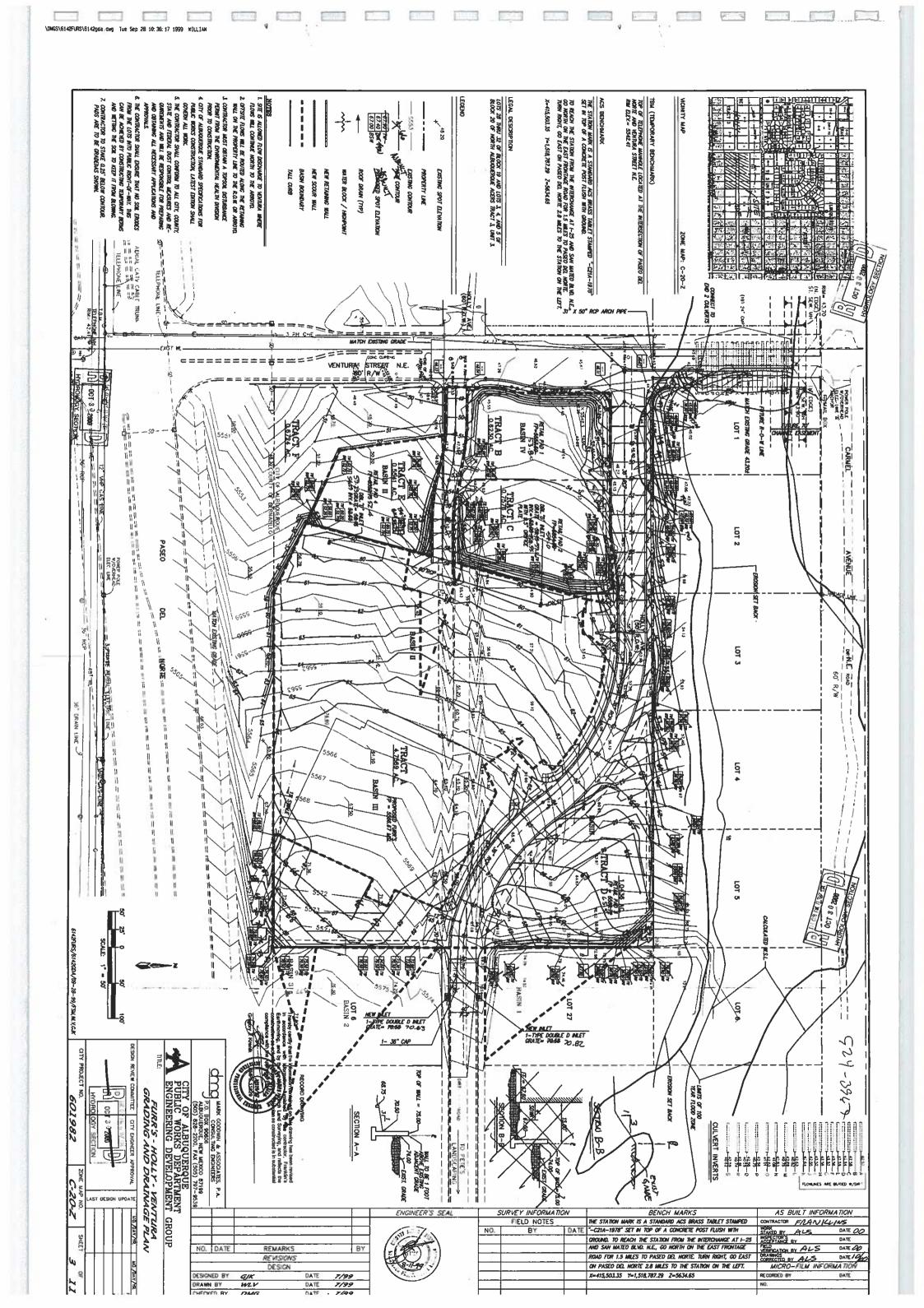
4 inch PVC Pipe

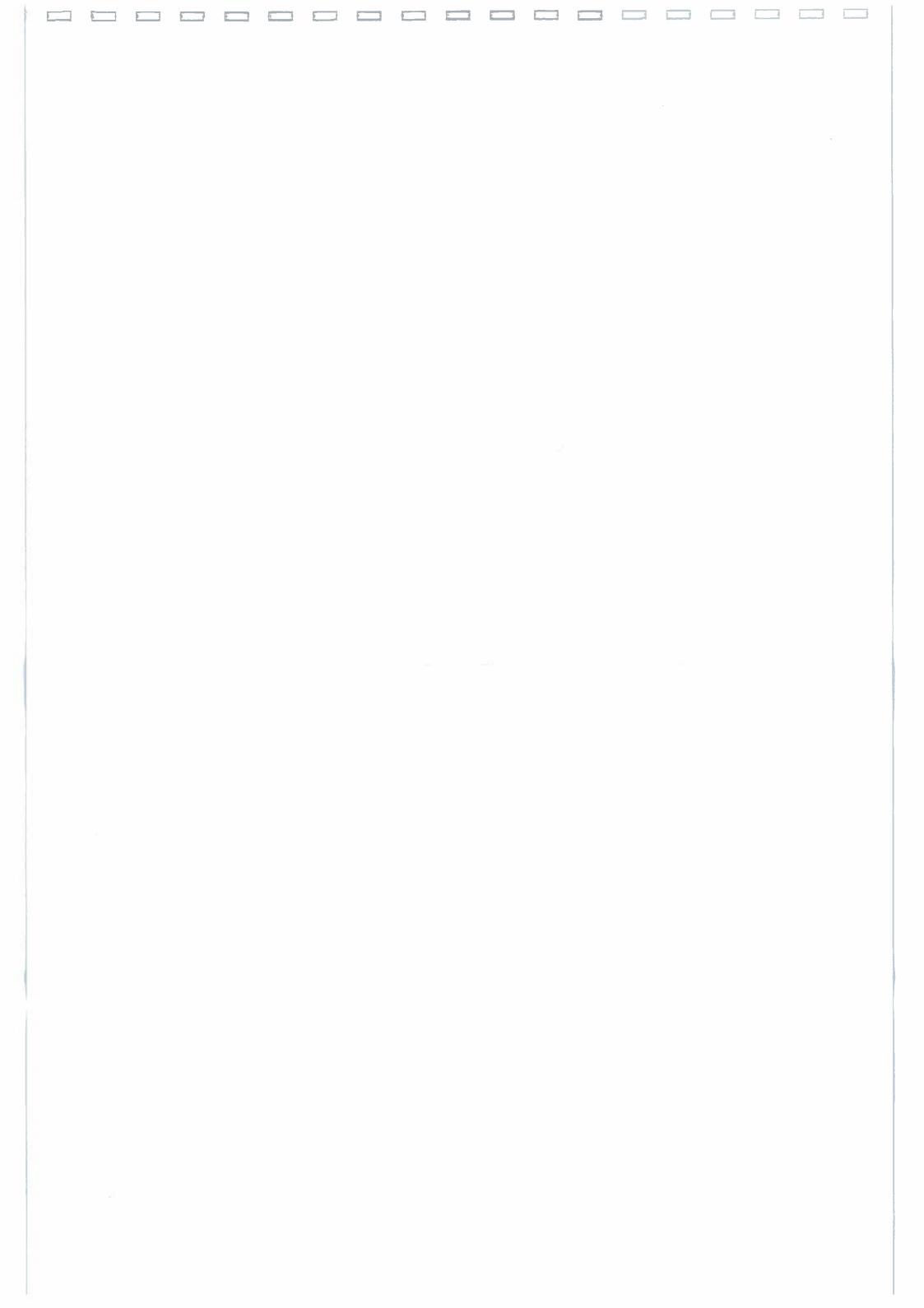
Circular		Highlighted	
Diameter (ft)	= 0.34	Depth (ft)	= 0.31
		Q (cfs)	= 0.194
		Area (sqft)	= 0.09
Invert Elev (ft)	= 48.69	Velocity (ft/s)	= 2.25
Slope (%)	= 0.70	Wetted Perim (ft)	= 0.85
N-Value	= 0.012	Crit Depth, Yc (ft)	= 0.25
		Top Width (ft)	= 0.20
Calculations		EGL (ft)	= 0.38
Compute by:	Q vs Depth		
No. Increments	= 10		



Reach (ft)







CITY OF ALBUQUERQUE



March 27, 2008

Gregory J. Krenik, PE Mark Goodwin & Associates P.O. 90606 Albuquerque, NM 87199

Re: Shoppes at Ventura Grading and Drainage Plan Engineer's Stamp dated 2-22-08 (C20/D16)

Dear Mr. Krenik,

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Also, prior to Certificate of Occupancy release, Engineer Certification of the grading plan per the DPM checklist will be required.

Based upon the information provided in your submittal dated 2-25-08, the above referenced report is approved for Building Permit and Final Plat. Please attach a copy of

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

this approved plan to the construction sets prior to sign-off by Hydrology.

Sincerely, mohn radley of

Bradley L. Bingham, PE Principal Engineer, Planning Dept Development and Building Services

C: file

Albuquerque - Making History 1706-2006



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 30, 2001

Gregory J. Krenik, P.E. Mark Goodwin & Assoc. P.O. Box 90606 Albuquerque, New Mexico 87199

RE: Grading and Drainage Certification Furr's Supermarket- Ventura & Paseo Del Norte (C-20/D16) Submitted for Release of Financial Guarantees Engineers Stamp dated 11/11/1999 Engineer's Certification dated 12/11/2000 Engineers Letter dated March 27, 2001

Dear Mr. Krenik:

Based upon the information provided in your submittal dated 12/12/2000 and your letter dated 3/27/2001, the above referenced plan is adequate to satisfy the Grading and Drainage Certification and Letter of Map Revision (LOMR) requirements for Release of the remaining Financial Guaranty.

This will satisfy the conditions for release of the remaining financial guaranty for \$20,000.00 being held as per City Hydrology's letter dated December 18, 2000.

If you have any questions, please call me at 924-3986.

Sincerely,

Bradley L. Bingham, P.É. Senior Civil Engineer, Hydrology Public Works Dept., C.O.A.

C: Arlene Portillo, PWD - #601981



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 23, 2000

Gregory j. Krenik, P.E. Mark Goodwin & Associates, PA P.O. Box 90606 Albuquerque, NM 87199

RE: FURR'S, PASEO DEL NORTE & VENTURA (C20-D16). ENGINEER'S CERTIFICATION FOR CERTIFICATE OF OCCUPANCY APPROVAL. ENGINEER'S STAMP DATED OCTOBER 16, 2000.

Dear Mr.Krenik:

Based on the information provided on your October 16, 2000 submittal, the above referenced project is approved for Certificate of Occupancy.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely, John P. Murray, P.E. Hydrology

Whitney Reierson





P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 20, 1999

Gregory J. Krenik, P.E. Mark Goodwin & Associates, PA P. O. Box 90606 Albuquerque, New Mexico 87199

RE: Revised Drainage Report and Grading and Drainage Plan for Furr's-East Paseo del Norte, (C20/D16) Submitted for Building Permit Approval, Engineer's Stamp Dated 6/23/99.

Dear Mr. Krenik:

Based on the information provided, the above referenced plan, dated June 23, 1999, is approved for Building Permit release.

As you are aware, the Engineer's Certification is required prior to release of the Certificate of Occupancy for this site.

If you have any questions, or if I may be of further assistance to you, please call me at 924-3982.

Sincerely,

Susan M. Calongne, P.E. City/County Floodplain Administrator

C:

Fred Katz, The FHK Company File

= THE CITY OF ALBUQUERQUE IS AN EQUAL OPPORTUNITY/REASONABLE ACCOMMODATION EMPLOYER =

ADDENDUM TO THE DRAINAGE CALCULATIONS

for FURR'S

Paseo del Norte



.

D. MARK GOODWIN & ASSOCIATES

D. Mark Goodwin & Associates, P.A. Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199 (505) 828-2200 FAX 797-9539 e-mail: dmg@swcp.com

PROJECT Fures - P	SED DEL NORTE
SUBJECT REVISED	PONDS
BY_GSK	DATE 11-27-00
CHECKED	DATE
	SHEETOF

· THIS REVISES THE DUINDGE REPORT FOR FURE'S PASED POL NORTE PREPADED BY MARC GOODWIN AND ASSOCIATES 12-11-98 APIENDIX""

- THE BUILDING WAS DESIGNED WITH DOWN SPOUTS ON THE NORTH AND SOUTH SIDES INSTERP OF THE WEST AND SOUTH SIDES.
- NE WILL PLACE & SMOLLER ORIFICE ON THE UNDERGROUND POND. IT WILL BE REDUCED FROM 9.510 TO 8.519.
 - THE NEL TO THE UNDERGROUND POND GETS REDUCED FROM 0.005812 SM TO 0.004251 SM.
 - THE TYPE "B" AREA WORENSED FROM 9.27% TO 10.88% ~ 0 THE TYPE "D" AREA DECREMSED FROM 90.73% TO 89.12%
 - · TOTAL ALLOWABLE Q FROM FURE'S = 6.09 0FS (sheet 7 of OMGINAL REPORT)
 - PER THE AHYMO OUTPUT FOR THE REVISED POND Q= 4,80 JS SEE SHEETS 2-5
 - THIS LEAVES 6.09-4.80= 1.29 JES TO BE DISCHMAED FROM THE NORTH SIDE OF BUILDING
 - OFENING 6-15"X6" ORIFICES OVER THE 6"X6" OFENING TO THE POWNSPOUTS

ROOF SLOPE = 1/4" PER FOOT SIDE OF BLOG = 180' AREA OF BLOG = 0.000861 SM 100% TYPE "D"

FROM LHYMO OUTPUT SHEETS 6-9 Q-1.23 JS < 1.29 JS

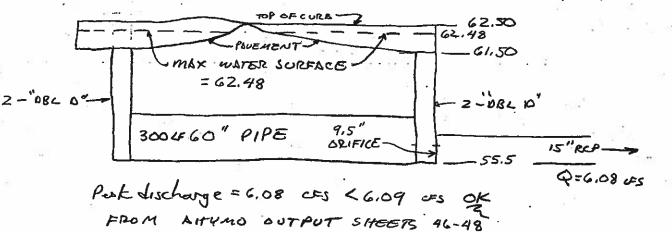
· DOWN SPOUTS WILL DISCHARGE TREDUGH H" PVC PIPES THROUGH CURB INTO HOLLY.

PROJECT FURS - Pa	sed Del Aborte
SUBJECT <u>Provide</u> BY G ST	
CHECKED	DATE
S	HEET 8 OF
Re used	12-11-98

USE IN COMBINATION PARKING LOT PONDING AND UNDERGROUND STORAGE

ELEV	VOLUME (ACFT)	OUTFLOW	(9.5	"ORIFICE)
55,5	0.0	0,0		2
56.5.	0,021	1.84		Q=0.6A JZ14
57.5	0.053	3,00		, j.,
58.5	0,089	3, 82		
57.5	0.122	4,50		
60.5	0:142	5.09		11 (n) (n) (n)
61.5	0.143	5.61		
62.5	0.273	6.09		<i>E</i>
			- 68	

POND WILL CONSIST OF Z DBL "D' INLETS AT EACH END CONNELTED BY JOU LF OF 60" PIPE BLONG WITH PORKING LOT



PROJECT FURS - POSED DEC NORTE	
PROJECT TORS -TAKED PEC TORIG	ł
SUBJECT DAVIAGE CALCS	Ś
BY GSK DATE 0-7-98	e
CHECKEDDATE	(
SHEET 7 OF Revised 12-11-98	
Revised 12-11-98	

· FIND UNDEVELOPED RUNOFF OF EXISTING SITE AREA = 8.7900 AC

> USE 902 B AND 10% C FROM AHYMO SHEETS 43-45 Q=23.81 USS

THIS IS THE ALLOWARLE RUNOFF FOR THE SITE

- FIND RUNOFF FROM DIRECT DISCHARGE AREAS. BASINS I +I

Q = 13.28 + 2.58= 15.86 C=3

· ALLOWABLE DISCHARGE FROM PLOS 1+2 (BASIN II) AND FURS (BASIN III)

Q=23,81-15,86 =7,95 cs

• ALLOMABLE DISCHARGE FOR THESE 3 GOTS RETAIL PAD 1 = 0.93 CES RETAIL PAD 2 = 0.93 CES FURR'S = 6.09 CES

RETAIL PADS 1+2 WILL BE & TEMP, RETENTION POND FOR 175 RUNGEFF UNITL" THEY ARE DEVELOPED THEN THEY WILL HAVE A CONTROLLED DISCHARGE FROM THEIR PONDS. SEE ABOVE.

SIZE TEMP POND FOR 2-100 yr GHR STORMS V=2 x 0.2425 AC-FT = 21,127 CF

160 x 200 = 32,000 >1 FOOT DEEP VOLUME = 30,938 <F > 21,127 05

SIZE FURES POND

QALLOWABLE = 5.95 UFS

USE 2 - DBL "D" INCETS AT EACH SUMP. LOCATION

PROJECT FURIES- PASED DEC NORTE SUBJECT DATUAGE CALCS BY GISK DATE 9-1-98 CHECKED DATE SHEET 6 OF Revise 12-11-98

- DETERMINE FLOWS FOR ENTIRE BASIN 921.2 MUD COMPARE WITH ORIGINAL REPORT.
 - · TOTAL AREA PER GRIGINAL REPORT = 0.085 SM PER SHEETS 1,3 4 OF THIS REPORT THE AREA THAT ANDINS TO THE STORMOWIN IN HOLLY
 - A = 21,2925 + 8.79 +1.98
 - = 32,0625 AC = 0.050 SM
 - THIS LEAVES 0.085-0.050=0.035 SM THAT ONAIN IN THE BASIN. THESE FLOWS WILL COME DOWN CARMEL WHICH IS THE STREET NORTH OF HOLLY.
 - THIS IS ZONED ROD SO THE CAUD TREATMENT OF 50% B \$ 50% D WILL BE USED.

FROM AHYMO OUTPUT SHEETS 40-42

Q = 86.67 JES

ADD THIS TO TOTAL Q UN GHEET 4 (114.87 US) TOTAL Q = 119.03 + 91.62 = 210.65 OFS < 254 Ret ORIGINAL REPORT OK

K SINCE THE FLOWS FOR THE BASIN ARE ACTUALLY LESS THAN ORIGINALLY ESTIMATED THE FUNE'S PESIGN IS ADEDVATE.

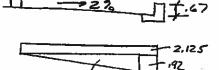
STREET OPDICITY OF UENTURA

WHEN COMMEL IS DEVELOPED & STORMANNW WILL NEED TO BE DESIGNED.

VERIFY

5=1% n=0.017

d=0.67 wP=25,76 A=8,46 U=4,16 F/3 Q=35,20 cF3



5,29

251

0.57 _____22

• TOTOL Q IN VENTURA SOUTH OF INLETS Q= 14,76 +7,80 +1.98 = 24,54 CFS < 35.20 CFS OK USINE UNDER VENTURA

	PROJECT FU	125-PASES Der Norte
	SUBJECT	DADINAGE CALCS
243	BY	CDATE 6-15-98
	CHECKED	DATE
0		, SHEET_S_OF
Keri.	seo 9-1-9	8 12-11-98

SINCE WE DO NOT KNOW HOW THE AREA EAST OF US WILL BE DEVELOPED WE WILL ONLY DESIGN FROM THE AMOYO TO OUR EAST PROPERTY LINE, FOR FUTURE DEVELOPMENT THE FLOW LND SIZES ON SHEET 4 WILL DIRECT THE DESIGN.

· Q AT OUR EAST PROP. LINE IN STORM DADIN = 73.05055

36" RCP I. AT THE ENTRALE 300' ELST OF VENTURA ON HOLLY BASIN I ENTERS THE STORMONDIN Q=73.05+13.28 = 86.33 USS USE 36"RCP

• AT INTERSECTION OF HOLLY AND VENTURA THE REMAINING 14,76 LES +7,80 LES ENTERS THE STORMOMMI USE 42"RCP

· DETERMINE EROSION SET BACK

WE WILL USE & Fret per 100 CFS

FROM THE DADINGGE REPORT <20/05 67326 {27 (Peter adropy) "APPENDIX B" WE SHOW THE ESB FOR 256 CFS. =45.36 FEET. FROM THE PLOT ON THE GOD PLON WE WILL MEEP A SCOURWALL FOR 190' A CONG HOLEY FROM UENTURA, THIS WALL WILL BE INCORPORATED

INTO THE RETAINS WOLL DLONG THE NORTH PROP. LINE.

DETERMINE SCOUR

USE SECTION 60 FROM Peters Ludsuping TOTAL SCOUR = 1/2 + 1/2 hg $\begin{aligned} \mathcal{Y}_{s} &= Oh(\mathcal{A})(F_{r})^{0,33} \\ &= \frac{122,81}{152,29}(\mathcal{A})(1,22)^{0,33} \end{aligned}$ = 5.74

1/2 ha = 0,07(2)(1) 4 =0.07(2)7+ (6.162)

=0,52

7073L SCOUR = 5.74+0.52= 6.26'

WE WILL USE a G.S' SCOUR WALL

· WE WILL SUBMIT A LOMR TO FEMA AND VERIFY THE ABOUT HECRON

PROJECT FUNC	5- PAJEO Dec Mars
	NINAGE CALCS
BY_GSK_	DATE 6-15-98
CHECKED	DATE
- ·	SHEET_4_OF
Revised	12-11-98

FROM AHYMO SHEETS 28-36

BASIN	Q (C=S)	SLOPE	* > ₂ - 3
		•S	
7	0.67	5.00% FOR	LAST 15 OTHERWISE FLAT
2	0,90	3,33 %	
3	0,20	2,00 %	

ALL OF THESE BASING HAVE THE ADJACENT PROPERTY HIGHER THAN THE FURES AND RETAIL PAD SITE.

THEREFORE UNDER CUITING OF THE FOOTING IS NOT A CONCERN.

DESTAN REQUIRED STORMONDIN IN HOLLY TO LEROYO TOTAL AREA IS THE ROW OF LOTS NORTH & SOUTH OF HOLLY FROM VENTURA TO HOLBROOK,

WE WILL USE OPTION ELS OF THE NORTH & SOUTH DOMINGO BACO ATTOYO AND PON CORELOOR PRINAGE MANAGMENT PULV. SEE "APPENDIX D"

THIS IS IN BASIN 921.2 PER THE REPORT THE MEA IS 0.085 SQ. MI. THIS ACCOUNTS FOR AREA ON BOTH THE NORTH AND GOUTH SIDE OF THE ANDYO.

THE AREA THAT MAINS TO HOLLY EAST OF OUR SITE IS 21.2925 AC = 0.03327 50, MI, 20NED R-D WE WILL USE 50 3 TYPE "D" AND 50 3 TYPE "B" PER AHYMO OUTPUT SHEETS 37-39

Q = 73.05 UFS

WE WILL USE A 2.3 % SLOPE PER THE REPORT.

FROM PIPE SIZE NOMO SHEET 9

AT 2.3%

18 "	CARRIES	16 055
24"	11	34 (5-5
30″	£ j	60 CFS
36 ''	17	100 CES
42 ''		140 CFS

TOTAL Q INCLUDING OUR SITE 73.05+13.28+3.97+18,17+6,40=114,8705



iates, P.A. Surveyors		-URES-PASED DEC NORTE PADINAGE CALCS
		DATE-4-21-98
	CHECKED_	DATE
P		SHEET_3_OF
KEUISED ?	6-15-98	9-1-98 12-11-98

FIND AREA AND Q OF VENTURA SOUTH OF NEW HOLLY.
 1/2 (86 × 450) = 19,350 Ø = 0,44472 AC 28% B 72% D
 FROM AHYMO OUT PUT SHEETS 25-27
 Q = 1,98 CFS

THE OFFSITE FLOWS ARE NEGLIGIBLE AND DO NOT HOVE MU IMPACT,

THESE BLSINS ARE DIVIDED INTO FOUR.

OFFSITE BASIN / - DANING SOUTH ALONG RET. WALL ALONG THE RETAIL PAD TO HOLLY.

OFFSITE BASIN 2 - ONAINS NORTH ALONG RET. WALL ALONG FUNES TO HOLLY.

OFFITE ROSIN 3 - DNAINS SOUTH ALONG RETIWOR ALONG FURRS TO PON ROW.

FOR THAS DESIGN 100% THRE "A" LOUD TREATMENT WAS USED, WHEN THELE SITE! DEVELOP, RUNDEF WILL HOVE TO BE DIRECTED TO HOLLY AND AS A DEVELOPED SITE ARE NOT ALLOWED TO DISCHIEGE ONTO ADJACENT PROPERTY.

es, P.A. reyors		RRS- POSED Der LONTE MINAGE CALCS
		1 <date <u="">41-21-98</date>
	CHECKED	DATE
2	•	SHEET Z OF
KEUISED;	6-15-98	12-11-98

FURR'S PAD SITE

AREA = 4.7843 AC

THIS SITE IS SPLIT INTO ALL 3 BASINS

	•		
BDSIN	AZEA	ß	0
Ŧ	0,9297 AC	OIZ308AC	0.6979AC
71-	0,1358 AC	0,0/02AC	0./256 AC
THE	"3,7/98, AC	0,3448 AC	3,3750 AC
	5		

TOTAL SITE BREAKDOWN

BASIN	ARE A(AC)	"B" AREA / %	D' AREA / 20
I	2,9573	0.7458 AC / 25,22	2,2115 AC /74.78
II ·	0, 90/0	0,0594 AC /7.42	0.7416 AC /92,58
T	3.7198	6,3448 Ac /9,27	3,3750 K/90.73
12	1,3119	0.1312 AC / 10.00	1,1807 _ AC/ 90,00
141	8.7900	<i></i>	5 ES

FROM

SHYMO OUTPOT SHEETS 10-21

BASIN	Q (2=5)
エ	13.28
I	3.97 -
TI	18,17
TZ	6,40
	70

 $P_{i} = 2.18 \text{ in}$ $P_{c} = 2.60 \text{ in}$ $P_{24} = 3.10 \text{ in}$ 0T = 0.03333 HK $TP_{i} = 0.1333 \text{ KR}$

· POND PAD 4

7" ORIFICE TO INTERIOR ROAD FROM POND

FROM AHYMO OUTPUT SHEETS 22-24 Q OF PAD = 2.41 CES POSE Q FROM POUD = 1.02 CES MAX NATUR SURFACE = 54,95

· REVISE BASIN I RUNOFF Q = 3,97 - (2,41 - 1.02)= 2,58 crs

170 45 POND SECTION

PROJECT FURRS	- PA	<u>seo</u>	DEL	NOFTE
SUBJECT DANN.	AGE	C	arcs	Υ.,
BY GJK		D/		1-21-98
CHECKED.		D	ATE	
<i></i>	S	HEET	()F

REVISED: 6-15-98 12-11-98

- · SITE DOES NOT LIE IN A 100 YEAR FLOOD ZONE
- EXISTING OFFITE FLOWS WILL NOT BE ALLOWED TO ENTER THE SITE BUT INSTEAD WILL BE ROUTED DOWN ALONG THE WALLS ON THE PROPERTY LINE TO EITHER THE ANROYO OR RIGHT OF WAY.
- THE SITE FOR THIS REPORT WILL BE DIVIDED INTO FOUR BASINS! I - ONLING TO HOLLY THEN TO UGNTURA II - ONLING TO INTERIOR ROLD THEN TO UGNTURA III - ONLING TO ONSITE STORM ONLY THEN TO HOLLY III - ONLING TO ONSITE STORM ONLY THEN TO HOLLY
- · DIRECT DISCHARGE WILL BE ALLOWED TO THE NEW STORMONIN IN THE ROAD ROW
- RETAIL PAD / = 0.6220 AC BASING II (I RETAIL PAD 2 = 0.7725 AC BASING II II RETAIL PAD 3 = 0.9955 AC BASIN I RETAIL PAD 4 = 0.5826 AC BASIN II HOLLY ROW = 1.0331 AC BASIN I FURR'S PAD = 4.7843 AC BASINS I, I III 8,7900 AC
- RETAIL PAD 3 (BASINII) DIRECT RUNOFF AREA = 0,9955 AC TYPEB THAT DAALAS TO HOLLY = 0.2567 AC TYPED THAT DAALAS TO HOLLY = 0,7388 AC
- · RETAIL PADS 1 + 2 (BASIN II) NEEDS TO POND

TOTAL	\mathcal{N}	2G-	A = 1.	3945	AC
	1	9 <i>55</i>	имб	10/10	
TYPE	۵	Ξ	1,1807	A C	
TYPE	B	:	0,1312	AC	

0.0826 AC 15 THE 30' INTERIOR ROAD THIS WILL BE DIRECT DISCHARGE (BASINIT) AREA TO POND = 1, 3/19AC

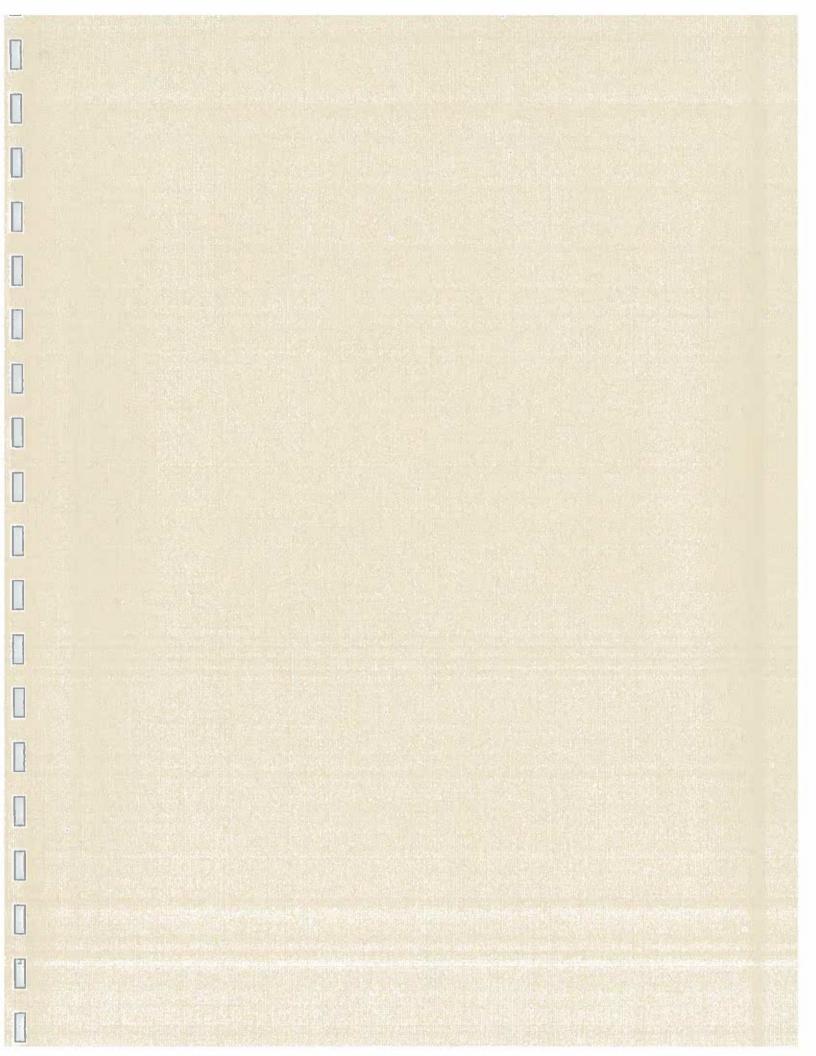
· RETAIL PAD 4 (BASIN II) DIRECT RUNDER AND PONDING

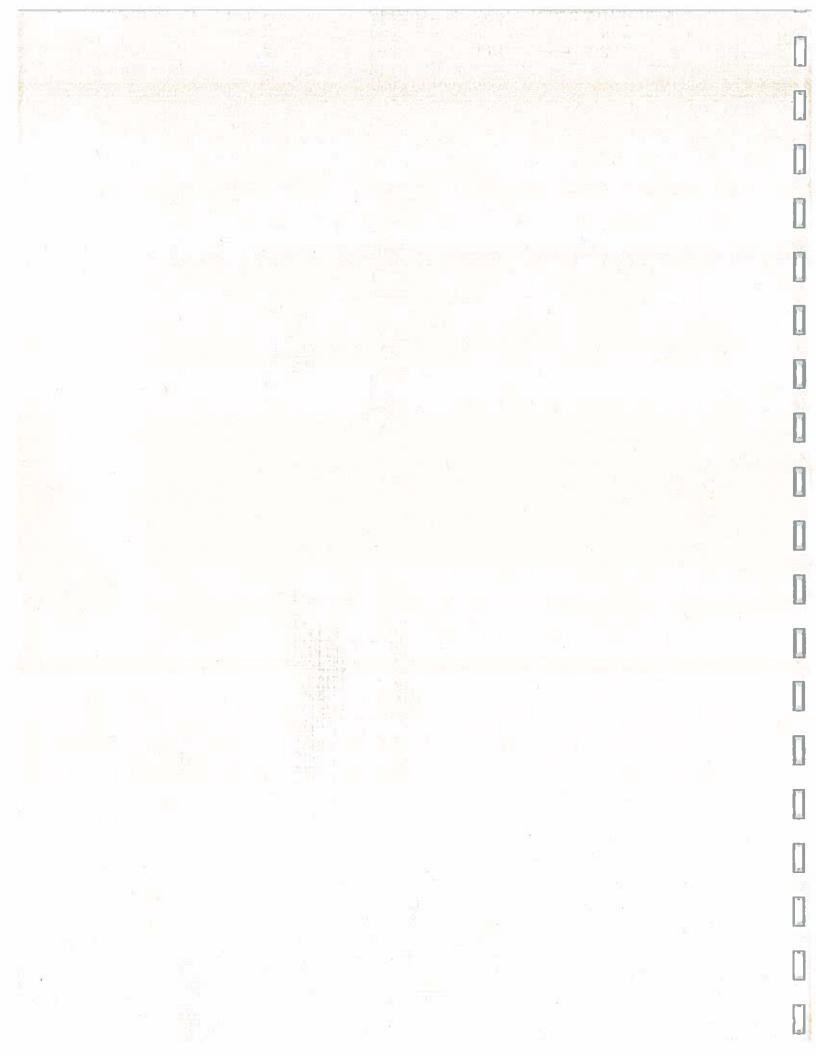
AREA = 0,5826 AC	0.0907 AC IS THE 30' INTERIOR ROAD
ASSUME 90/10	THIS WILL BE DIRECT DISCHARGE (BASINI)
TYPE B = 0,0492 MC	AREA AT 90/10 =0,4919 AC TO BE PONDED
1405 D = 0,4427 AC	

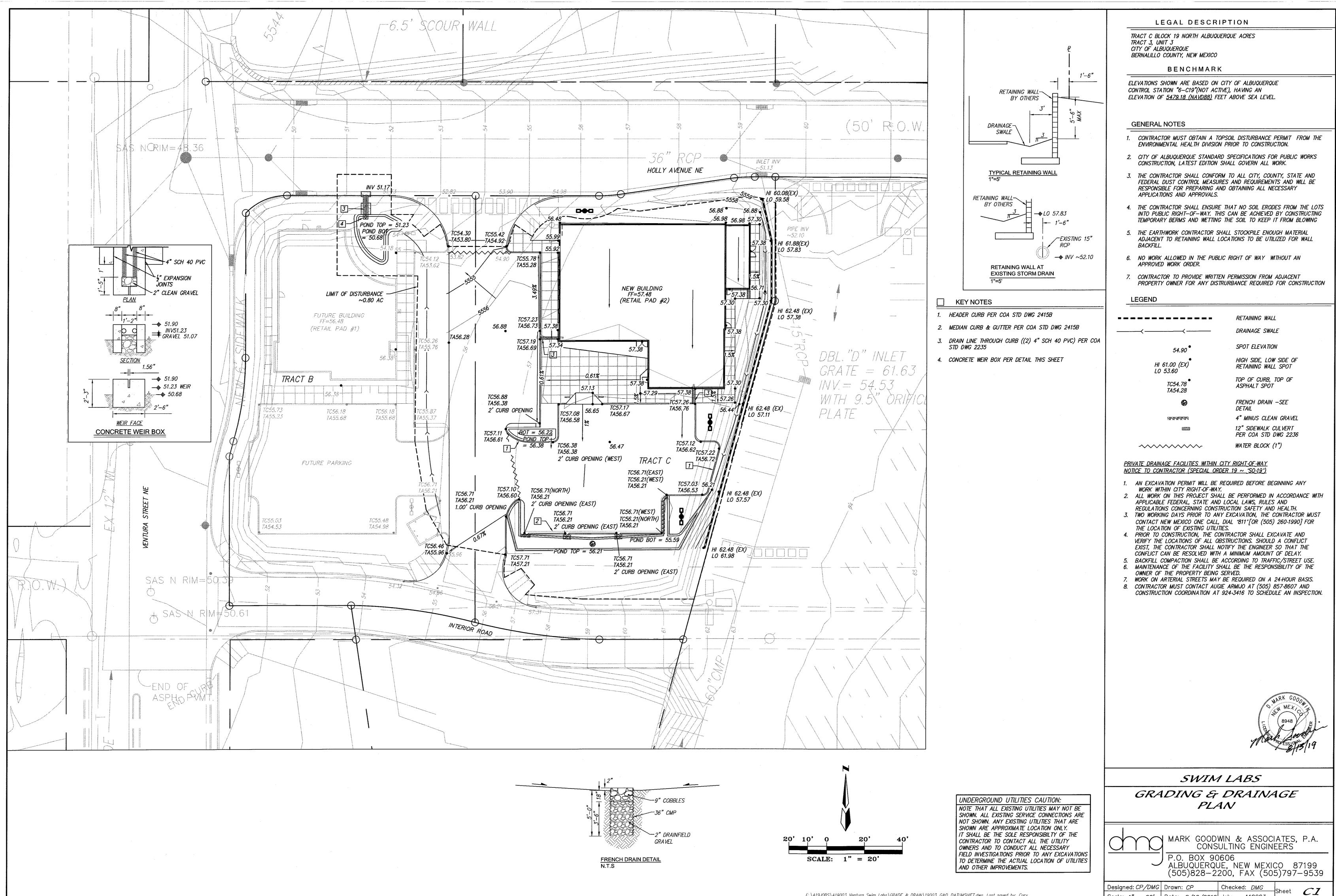
· HOLLY ROW (BASINIT) DIRECT DISCHARGE

AREA = 1.033/ AC

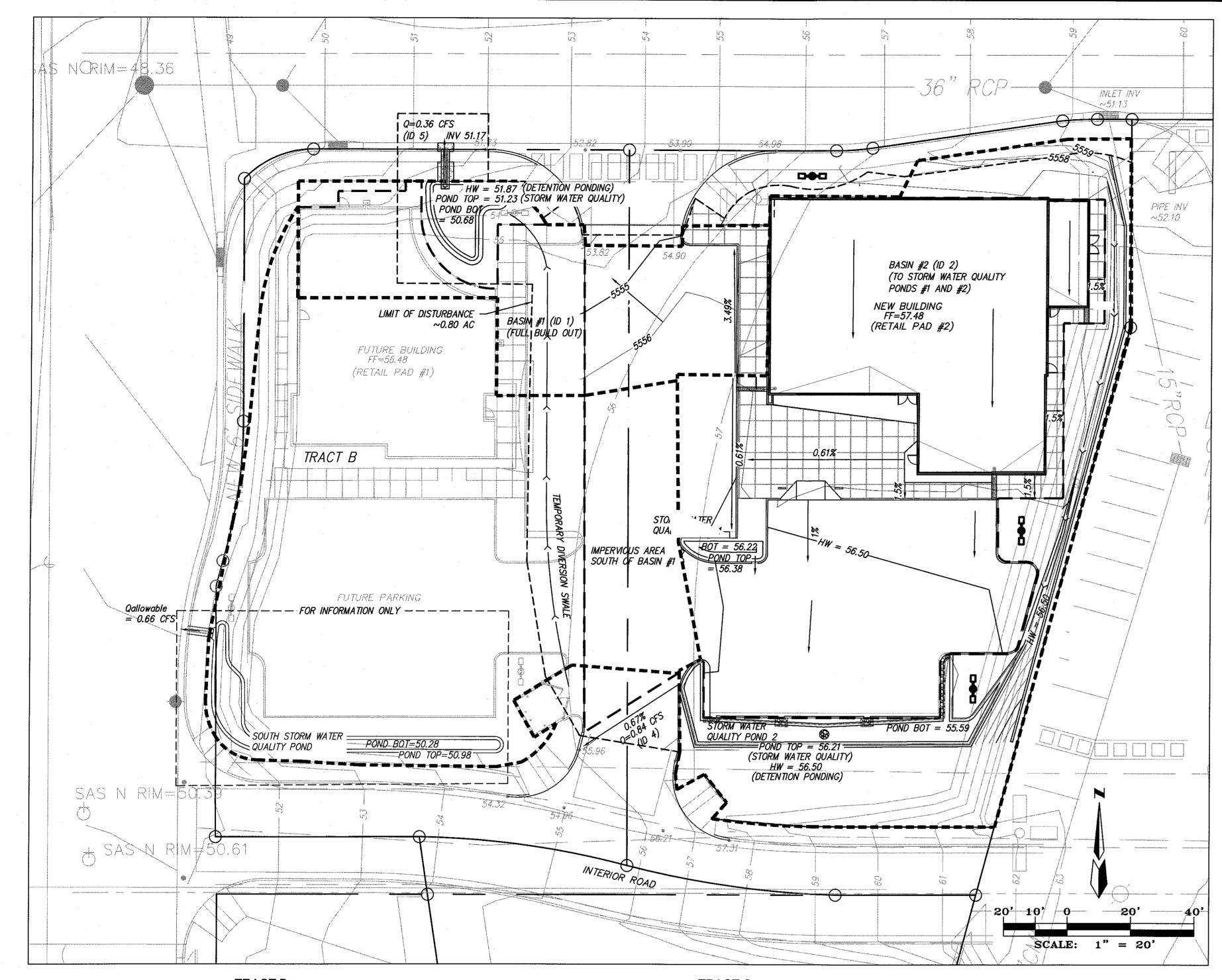
TYPE B = 25% = 0.2583 AC TYPE D = 75% = 0.7748 AC







Scale: 1" = 20' Date: 8/12/2019 Job: A19003



TRACT B:

Proposed Impervious Area (SF)6074Storm Water Quality
retention depth (inches):0.34Required Storm Water Quality Volume (CF):172Proposed Storm Water Quality Retention Capacity:172Temporary Retention Pond
Depth (FT):0.55Bottom (SF)276Top (SF)354Volume (CF)173

STORM WATER QUALITY POND

STORM WATER QUALITY:

RECENT STORM WATER QUALITY REQUIREMENTS OF THE CITY OF ALBUQUERQUE RESULT IN CAPTURE OF 0.34 INCHES OF RAINFALL OVER IMPERVIOUS SURFACES.

THE REQUIRED STORM WATER QUALITY VOLUME IS FULLY CAPTURED WITHIN THE TRACT B STORM WATER QUALITY NORTH POND, AND THE TWO TRACT C STORM WATER QUALITY PONDS. ON TRACT C, WATER SHED FLOWS TO STORM WATER QUALITY POND #1 AND OVERFLOWS TO THE SIGNIFICANTLY LARGER STORM WATER QUALITY SOUTH POND #2.

THE FRENCH DRAIN IS A FEATURE OF THE DESIGN TO HASTEN INFILTRATION WITHIN TRACT C STORM WATER QUALITY SOUTH POND #2 WHEN RUNOFF IS CAPTURED FROM STORM EVENTS.

THE STORM WATER QUALITY PONDS ARE TO BE PERMANENT WITH THIS DEVELOPMENT. THE CONTRIBUTING BASIN OF IMPERVIOUS AREA TO TRACT B STORM WATER QUALITY POND OCCUPIES PORTIONS OF BOTH TRACT B AND TRACT C.

DRAINAGE REPORT

THE SITE IS WITHIN THE FURRS PASED DEL NORTE PROJECT (ADDENDUM STAMP DATE 11/27/00, GREGORY JAMES KRENIK, D. MARK GOODWIN & ASSOCIATES). THE FURRS PASED DEL NORTE PROJECT HAS FOUR BASINS. BASIN IX INCLUDES RETAIL PAD #1 AND RETAIL PAD #2. THIS PROJECT (SWIM LABS) IS RETAIL PAD #2. THE FURRS PASED PROJECT INCLUDES A STORM DRAIN SYSTEM TO THE EAST THAT PONDS AND CONVEYS FLOWS INTO THE STORM DRAIN SYSTEM IN HOLLY AVENUE, THEREBY DIVERTING THE OFFSITE FLOW FROM THE EAST. THE SUBJECT SITE IS BOUNDED BY 8" CURBED ROADWAYS WITH STEEP SLOPES TO THE WEST ON THE NORTH AND SOUTH SIDES.

THE FURRS PASEO PROJECT ALLOCATES 0.93 CFS FOR PAD #2, AND 0.93 CFS FOR PAD #1 (WEST OF PAD #2) OF ALLOWABLE DISCHARGE. BOTH PROPERTIES (RETAIL PAD #1 AND #2) INCLUDE A PORTION OF THE INTERIOR ROAD WHICH IS INCLUDED IN BASIN II (IN THE FURRS PASEO DEL NORTE ANALYSIS) AND IS NOT INCLUDED IN THE ALLOWABLE DISCHARGE OF EACH PAD. AS A PORTION OF RETAIL PAD #2 DRAINS INTO RETAIL PAD #1 (BASIN #1 EAST OF THE PROPERTY LINE) AND BOTH PADS #1 AND #2, AS PROPOSED, DISCHARGE AT THREE LOCATIONS; THE ALLOWABLE DISCHARGES ARE COMBINED FOR A TOTAL OF 1.86 CFS, AND REDISTRIBUTED TO EACH DISCHARGE LOCATION: 0.84 CFS FOR SOUTHWEST CORNER OF PAD #2, 0.36 CFS FOR MID NORTH SIDE OF PAD #1, AND 0.66 CFS FOR SOUTHWEST CORNER OF PAD #1 (FOR INFORMATION ONLY). THE DISTRIBUTED DISCHARGE AMOUNTS ARE SOMEWHAT PROPORTIONAL TO THE AREA TRIBUTARIES; HOWEVER, THE NORTH MID DISCHARGE LOCATION, WHICH RECIEVES FLOW FROM BOTH PADS, IS PROPORTIONATELY A BIT HIGHER BECAUSE OF SPACIAL CONSTRAINTS ON THE POND SIZE.

THE PROPOSED DESIGN FOR RETAIL PAD #2 INCLUDES CAPTURE OF 0.34" ON IMPERVIOUS AREAS TO MEET STORM WATER QUALITY REQUIREMENTS. AS SUCH THE POND ON THE SOUTH PORTION OF THE SITE RETAINS THIS VOLUME REQUIREMENT FROM ELEVATION 55.59' TO 56.21'. FROM ELEVATION 56.21' TO 56.50', THE POND FUNCTIONS AS A DETENTION POND DURING THE 100YR, 6HR STORM WITH A PEAK DISCHARGE OF 0.84 CFS. DISCHARGE BEGINS AFTER STORM WATER QUALITY CAPTURE AT ELEVATION 56.21' THROUGH A 1.00' WIDE CURB OPENING AT THE WEST END OF POND #2. THE DISHCHARGE FLOWS INTO THE INTERIOR ROAD (SOUTH OF SUBJECT SITE) THEN INTO VENTURA AVENUE. THE FURRS PASEO PROJECT EVALUATES A CAPACITY OF 35.2 CFS OF VENTURA AND A FLOW OF 24.54 CFS WITH FLOW RETAINED ON RETAIL PADS #1 AND #2. DISCHARGE OF 0.84 CFS INTO THE INTERIOR ROAD WILL ADD TO THE 24.54 FOR TOTAL OF 25.38 CFS OF 35.2 CFS CAPACITY IN VENTURA.

THE PROPOSED DESIGN FOR RETAIL PAD #1 WILL INCLUDE CAPTURE OF 0.34" ON IMPERVIOUS AREAS TO MEET STORM WATER QUALITY REQUIREMENTS. IN THE TEMPORARY STATE, BEFORE RETAIL PAD #1 (TRACT B) IS DEVELOPED, THE NORTH POND WILL RECEIVE RUNOFF FROM IMPERVIOUS SURFACES FROM THE EAST PORTION OF BASIN #1 AND FROM THE SOUTH SIDE OF BASIN #1 AS DELINIATED. THE RUNOFF WILL BE DIVERTED TO THE NORTH POND VIA A TEMPORARY DIVERSION SWALE AS INDICATED. THE TEMPORARY IMPERVIOUS TRIBUTARY TO THE NORTH POND IS APPROXIMATELY 6074 SF. ONCE TRACT B IS DEVELOPED, THE PORTION SOUTH OF BASIN #1 OF IMPERVIOUS AREA WILL BE ACCOMODATED BY ANOTHER POND IN THE SOUTHWEST CORNER OF TRACT B (SHOWN FOR INFORMATION ONLY); HOWEVER, NEW IMPERVIOUS SURFACES WITHIN TRACT B WILL ADDITIONALLY SHED TO THE NORTH POND. UNDER FULL DEVELOPEMENT (RETAIL PAD #1 AND RETAIL PAD #2), THE IMPERVIOUS TRIBUTARY TO THE NORTH STORM WATER QUALITY POND IS ANTICIPATED TO BE APPROXIMATELY 5547 SF.

THE NORTH POND RETAINS THE STORM WATER QUALITY VOLUME REQUIREMENT OF 6074 SF FROM ELEVATION 50.68' TO 51.23'. FROM ELEVATION 51.23' TO 51.85', THE NORTH POND FUNCTIONS AS A DETENTION POND DURING THE 100YR, 6HR STORM WITH A PEAK DISCHARGE OF 0.36 CFS. DISCHARGE BEGINS AFTER STORM WATER QUALITY CAPTURE AT ELEVATION 51.23' THROUGH A 0.13' WIDE OPENING INTO THE SIDEWALK THROUGH PIPES, INTO HOLLY AVENUE. AS THE NORTH DETENTION POND IS CONSTRUCTED IN ANTICIPATION OF A 100 YR EVENT, THE DETENTION POND DESIGN IS FOR FULL BUILD OUT CONDITIONS, INSTEAD OF THE TEMPORARY STATE, ABOVE ELEVATION 51.23.

RAINFALL WAS TAKEN FROM NOAA ATLAS 14 DATA AT THE LOCATION OF THE SITE. THE RAINFALL IS MITIGATED BY 0.26" (STORM WATER QUALITY CAPTURE OVER BASIN AREA (IMPERVIOUS AND PERVIOUS LAND TREATMENTS)) FOR INPUT INTO AHYMO TO ACCOUNT FOR STORM WATER QUALITY RETENTION. THE DISCHARGE TABLES ARE BASED ON A 0.13' WIDE WEIR FOR THE TRACT B NORTH DETENTION POND AND A 1.00' WIDE WEIR FOR THE TRACT C SOUTH DETENTION POND.

TRACT C:

PONDS 1 AND 2	
roposed Impervious Area (SF)	17101
corm Water Quality	
tention depth (inches):	0.34
equired Storm Water Quality Volume (CF):	485
OND 1	
epth (FT):	0.16
ottom (SF)	24
op (SF)	121
olume (CF)	12
OND 2	
epth (FT):	0.62
ottom (SF)	619
op (SF)	926
olume (CF)	479
Total Storm Water Quality Capture (CF)	
(Ponds 1 and 2)	491

	RAM SUMMARY TABLE (= 19\A19003 - Vent			\Drainage\ah		<i>S4.01a, Rel</i> ad2_TOPDETEN					
0014/21/2	HYDROGRAPH	FROM ID	TO ID	AREA	PEAK DISCHARGE	RUNOFF VOLUME	RUNOFF	TIME TO PEAK	CFS PER	PAGE =	
COMMAND	IDENTIFICATION	NO.	NO.	(SQ MI)	(CFS)	(AC-FT)	(INCHES)	(HOURS)	ACRE	NOTATI	ION
START LOCATION *S SWIM LAE *S ONSITE F *S By Cory	PAD 2	ALBU	IQUERQUE	7						TIME=	0.00
RAINFALL 1	YPE= 2 NOAA 14		_							RAIN24=	2.600
*S BASIN #2 COMPUTE NM	? (Pad #2_South Det HYD	ention _	Pond) 2	0.00086	1.70	0.082	1.78433	1.530	3 084	PER IMP=	70.00
ROUTE RESER	RVOIR POND.OT	2	4	0.00086	0.84	0.082	1.78399	1.700		AC-FT=	0.024
^S BASIN #1 COMPUTE NM	(Pad #1_North Det HYD 203.00	ention _	Pona) 1	0.00023	0.52	0.025	2.06285	1.530	3.513	PER IMP=	85.00
ROUTE RESER FINISH D(s10H	RVOIR POND.OT	1	5	0.00023	0.36	0.025	2.06200	1.640	2.443	AC-FT=	0.006

TRACT C BLOCK 19 NORTH ALBUQUERQUE ACRES TRACT 3, UNIT 3
CITY OF ALBUQUERQUE BERNALILLO COUNTY, NEW MEXICO
BENCHMARK
ELEVATIONS SHOWN ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION "6-C19"(NOT ACTIVE), HAVING AN ELEVATION OF 5479.18 (NAVD88) FEET ABOVE SEA LEVEL
ELEVATION OF <u>5479.18 (NAVD88)</u> FEET ABOVE SEA LEVEL.
VICINITY MAP (ZONE ATLAS C-20-Z)
LEGEND (LINE TYPES)
==== AHYMO BASIN DELINEATION
IMPERVIOUS SURFACE DELINEATION
-
WARK GOODING
NEX OLUM
NARK COOD SUN MEX-SUN FROM MEX-
NEX OLUM
TEN MEX COUNT
NEX OLUM
SWIM LABS
SWIM LABS GRADING & DRAINAGE PLAN
SWIM LABS GRADING & DRAINAGE PLAN MARK GOODWIN & ASSOCIATES, P.A. CONSULTING ENGINEERS
SWIM LABS GRADING & DRAINAGE PLAN MARK GOODWIN & ASSOCIATES, P.A. CONSULTING ENGINEERS P.O. BOX 90606
SWIM LABS GRADING & DRAINAGE PLAN MARK GOODWIN & ASSOCIATES, P.A. CONSULTING ENGINEERS