

CITY OF ALBUQUERQUE



July 9, 2014

Bradley L. Bingham, P.E.
Bingham Engineering
515 Montclair SE
Albuquerque, NM 87108

Re: Palomino Roofing, 6910 Huseman SW
Request for Permanent C.O. –Accepted
Engineer's Stamp dated: 5-9-07, (M10D016F)
Certification dated: 6-17-14

Dear Mr. Bingham,

Based upon the information provided in the submittal received 6-18-14, the above referenced Certification is acceptable for a release of Permanent Certificate of Occupancy by Hydrology.

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

PO Box 1293

Albuquerque

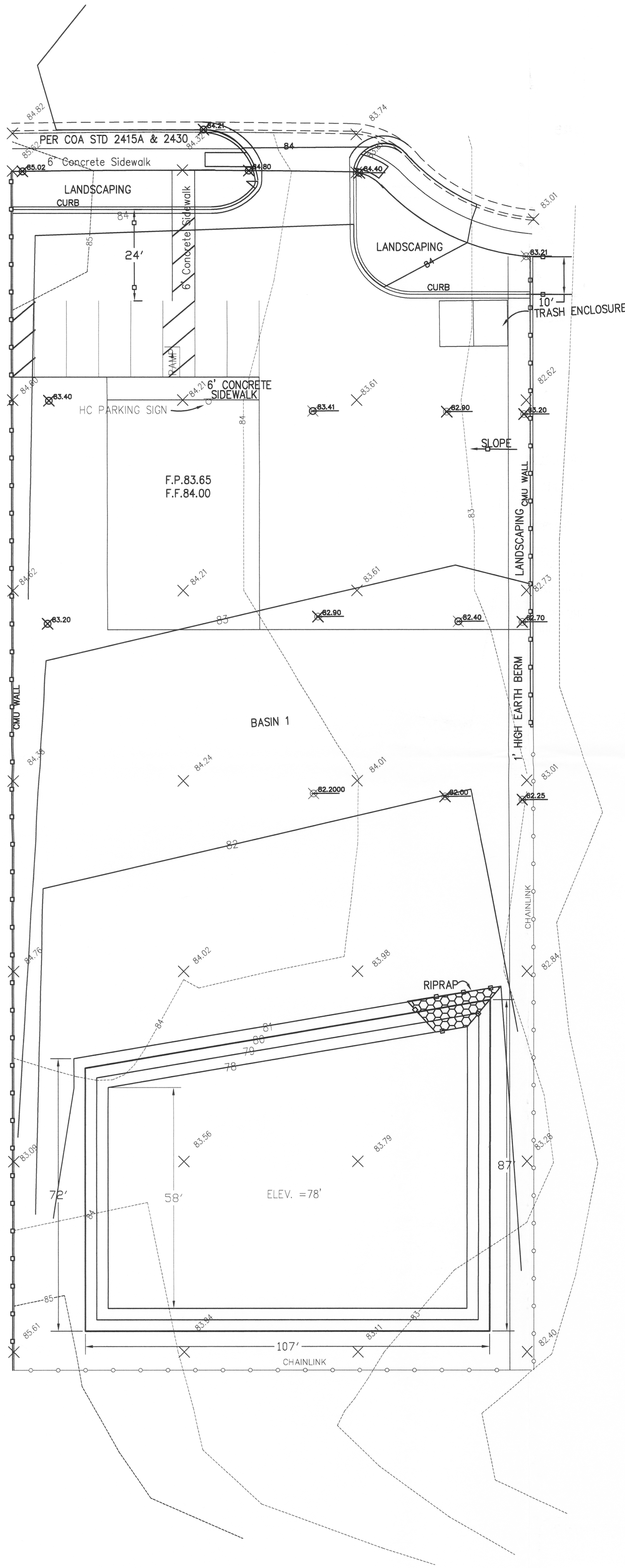
New Mexico 87103

www.cabq.gov

Sincerely,

Curtis A. Cherne, P.E.
Principal Engineer, Hydrology
Planning Dept.

C: e-mail



HYDROLOGY

START TIME=0.0 CODE 0 LINES 80
*S COMPUTE 100 YR. HYDROGRAPHS FOR
*S ZONE 1 PRECIP__ 6910.TXT - HYMO PER JAN 1997 DPM REVISIONS
* AREA 42,499 SQ FT
RAINFALL TYPE=-2 RAIN QUAR=0.0 RAIN ONE= 1.87
RAIN SIX= 2.20 RAIN DAY=2.66 DT=0.0333

*S BASIN 1: EXISTING
COMPUTE NM HYD ID=1 HYD NO= 101.1 DA=.0015 SQ MI
PER A=100 PER B=0 PER C=0 PER D=0 TP=-.13
RAIN=-1
PRINT HYD ID=1 CODE=10

*S BASIN 1: PROPOSED
COMPUTE NM HYD ID=2 HYD=102.1 DA=0.0015
PER A=15 PER B=0 PER C=52 PER D=33 TP=-.13
RAIN=-1
PRINT HYD ID=2 CODE=10
FINISH

START TIME=.00
AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
INPUT FILE = E:\ahymo\6910.TXT - VERSION: 1997.02a RUN DATE (MON/DAY/YR) =03/29/2007
USER NO.= AHYMO-I-9702a0100007G-SH

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID	TO ID	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE =	NOTATION
RAINFALL	TYPE= 2										RAIN24= 2.660
*S BASIN 1: EXISTING											
COMPUTE NM HYD	101.10	-	1	.00150	1.28	.035	.43919	1.532	1.328 PER IMP=	.00	
*S BASIN 1: PROPOSED											
COMPUTE NM HYD	102.10	-	2	.00150	3.03	.107	1.33183	1.499	3.157 PER IMP=	33.00	
FINISH											

RETENTION VOLUME:
10 DAY VOL.=VOL₃₀₀+A_B*(P_{10day} - P₃₀₀)/12
=0.107+.33*.96 *.149/12
=0.146 AcFt OR 6374 CuFt

POND VOLUME:
CONTOUR AREA VOLUME
80 8350
78 6266 14,616 CF (.33 Ac Ft.)
DEPTH ≈ 0.9'

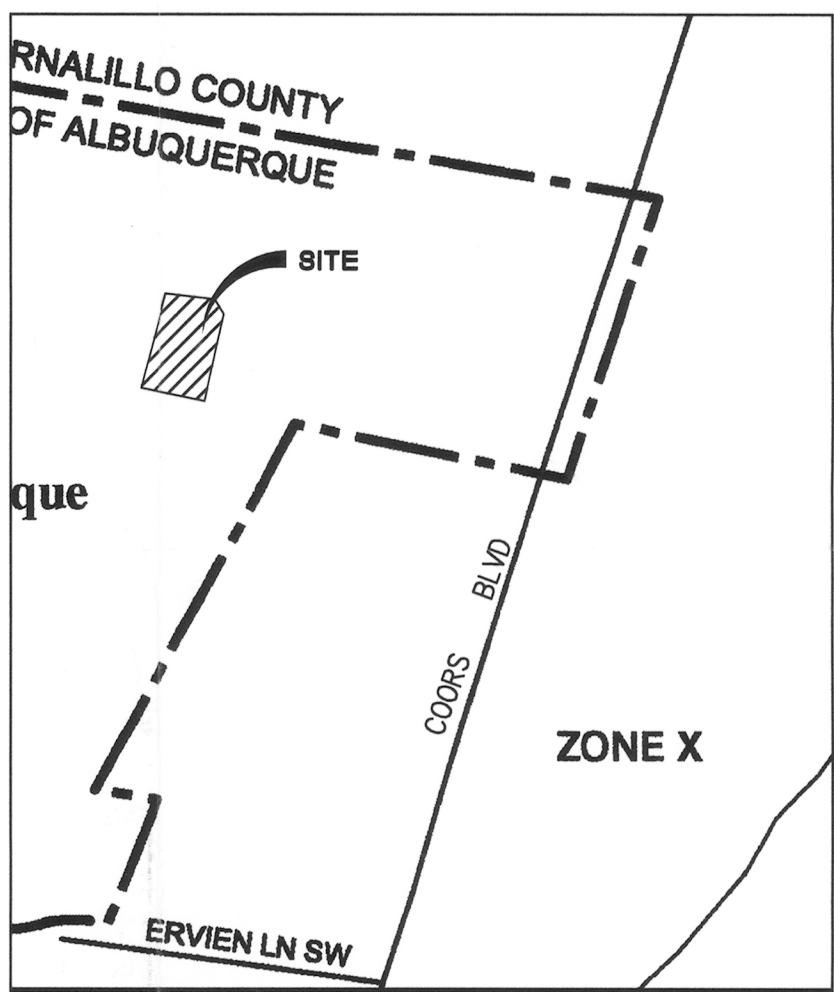
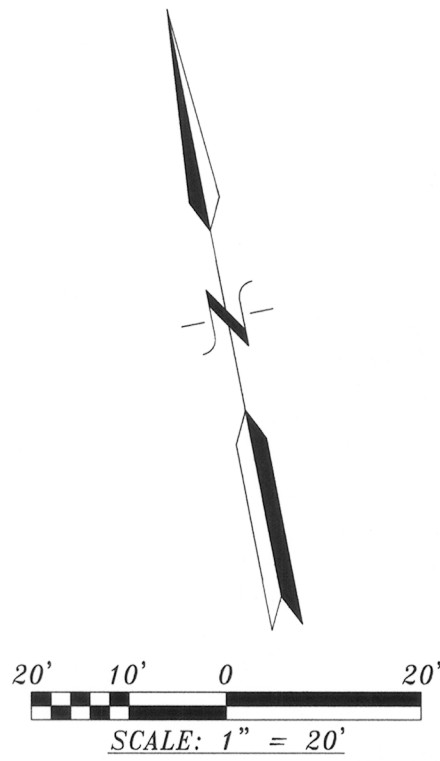
DRAINAGE CERT W/ SURVEY WORK BY OTHERS

12/28/01
DRAINAGE CERTIFICATION
I, _____, NMPE _____, OF THE FIRM _____, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED _____. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY NMPS _____ OF THE FIRM _____. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON _____ AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR

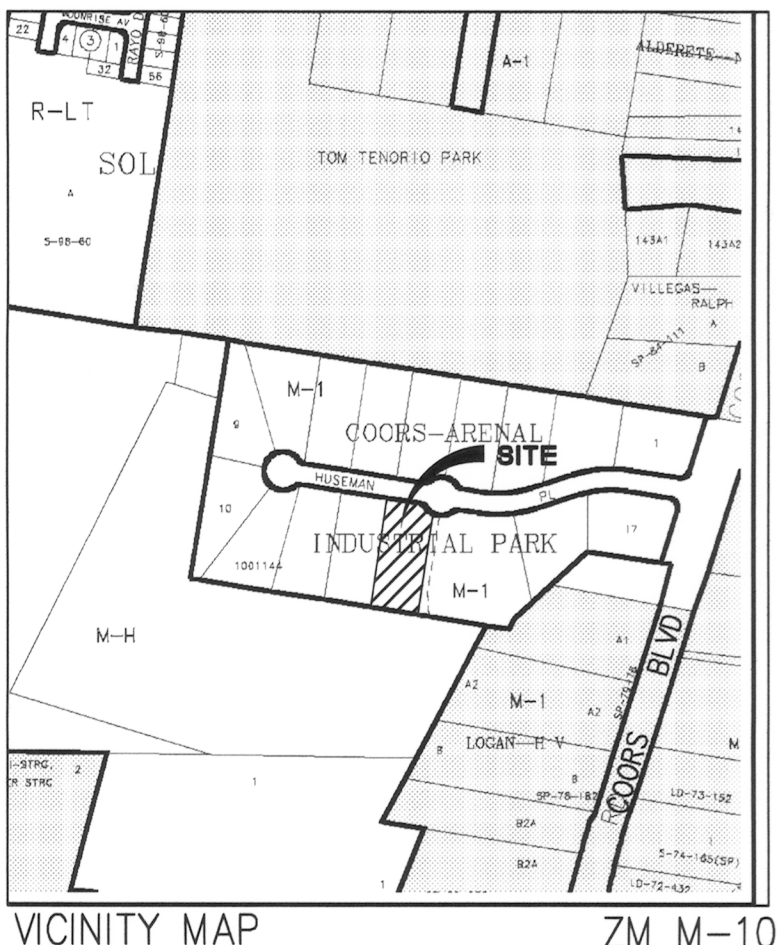
(DESCRIBE ANY EXCEPTIONS AND/OR QUALIFICATIONS HERE IN A SEPARATE PARAGRAPH)
(DESCRIBE ANY DEFICIENCIES AND/OR REQUIRED CORRECTIONS HERE IN A SEPARATE PARAGRAPH)
THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

XXXXXXXXXXXXXXXX, NMPE XXXX (SEAL)

DATE
APPROVED BY THE EXECUTIVE COMMITTEE ON 4/9/02



FM 337 of 825



PROJECT DESCRIPTION

THE SITE IS NOT IN A FLOOD PLAIN.
THE LOT WAS GRADED WHEN THE SUBDIVISION WAS DEVELOPED. THERE IS AN 6 FOOT RETAINING/PRIVACY WALL ON THE WEST PROPERTY LINE.

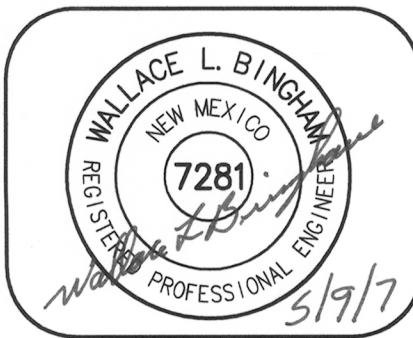
THE EXISTING SLOPE OF THE SITE IS GENTLY WEST TO EAST. THE PROPOSED SLOPE WILL BE TOWARDS THE SOUTHEAST. THE POND IS DESIGNED TO BE SUNK INTO THE GROUND TO ADD TO THE SAFTY BY NOT HOLDING THE WATER BACK WITH AN ABOVE GROUND BERM. THIS IS EVEN MORE IMPORTANT IN SANDY SOIL AS IS THE SITE.

THE PROPOSED GRADING OF BASIN 1, THE SITE, IS PLANNED TO SLOPE TO THE SOUTHEAST WITH A 6' WIDE BERM AT THE EAST FENCE LINE.

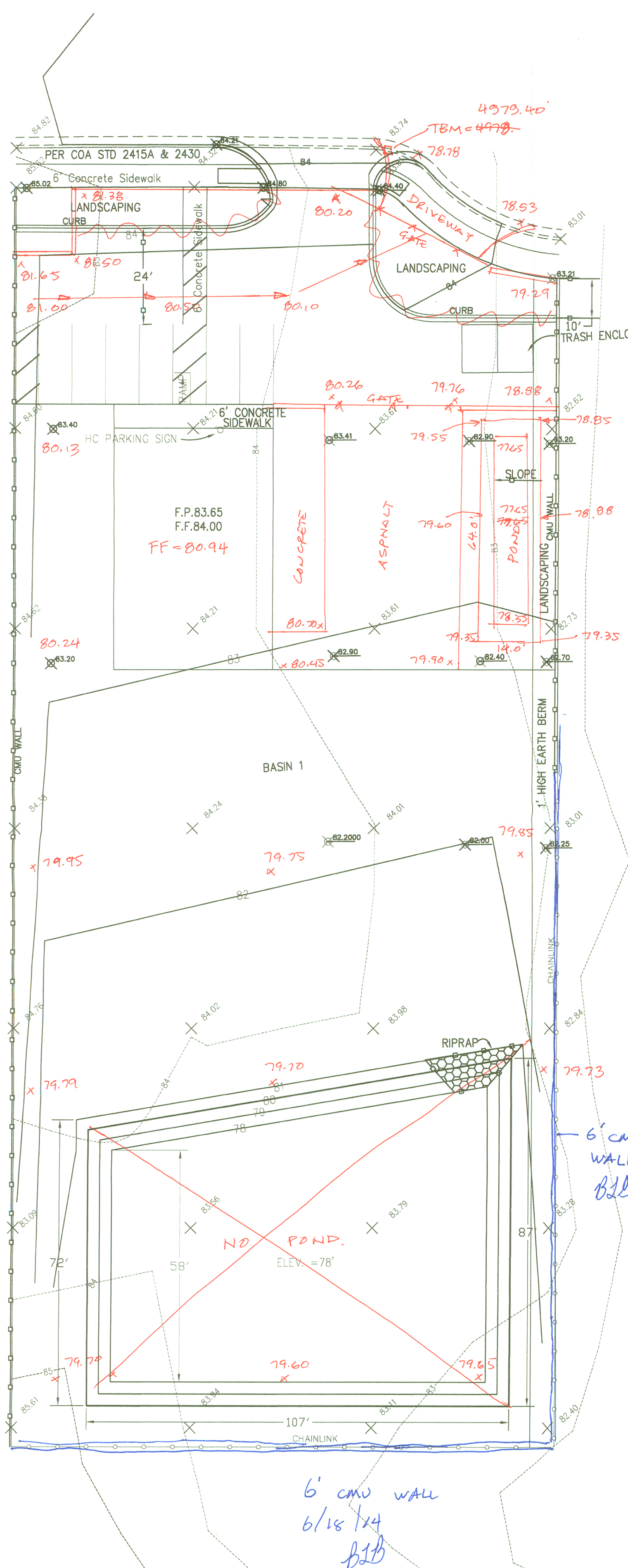
LEGEND

- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION (GRND & TC)
- EXISTING CURB AND GUTTER
- EXISTING CONTOUR W/ INDEX ELEVATION
- PROPOSED CONTOUR W/ INDEX ELEVATION
- FLOW ARROW
- BASIN BOUNDARY

BINGHAM ENGINEERING
6344 Belcher NE
Albuquerque, New Mexico 87109
505 797 4699



GRADING AND DRAINAGE PLAN
PALOMINO ROOFING CO.
6910 HUSEMAN DRIVE



HYDROLOGY

START TIME=0.0 CODE 0 LINES 80
*S COMPUTE 100 YR. HYDROGRAPHS FOR
*S ZONE 1 PRECIP 6910.TXT - HYMO PER JAN 1997 DPM REVISIONS
*S AREA 42,499 SQ FT
RAINFALL TYPE=-2 RAIN QUAR=0.0 RAIN ONE= 1.87
RAIN SIX= 2.20 RAIN DAY=2.66 DT=0.0333

*S BASIN 1: EXISTING
COMPUTE NM HYD ID=1 HYD NO= 101.1 DA=0.015 SQ MI
PER A=100 PER B=0 PER C=0 PER D=0 TP=-.13
RAIN=-1
ID=1 CODE=10

PRINT HYD
*S BASIN 1: PROPOSED
COMPUTE NM HYD ID=2 HYD=102.1 DA=0.0015
PER A=15 PER B=0 PER C=52 PER D=33 TP=-.13
RAIN=-1
ID=2 CODE=10

PRINT HYD
FINISH

START TIME= .00
AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
INPUT FILE = E:\Ahymo\6910.TXT - VERSION: 1997.02a RUN DATE (MON/DAY/YR) =03/29/2007
USER NO.= AHYMO-I-9702a0100007G-SH

COMMAND	IDENTIFICATION	FROM NO.	TO NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE
RAINFALL	TYPE= 2									1
*S BASIN 1: EXISTING		101.10	-	1	.00150	1.28	.035	.43919	1.532	PER IMP= .00
*S BASIN 1: PROPOSED		102.10	-	2	.00150	3.03	.107	1.33183	1.499	3.157 PER IMP= 33.00

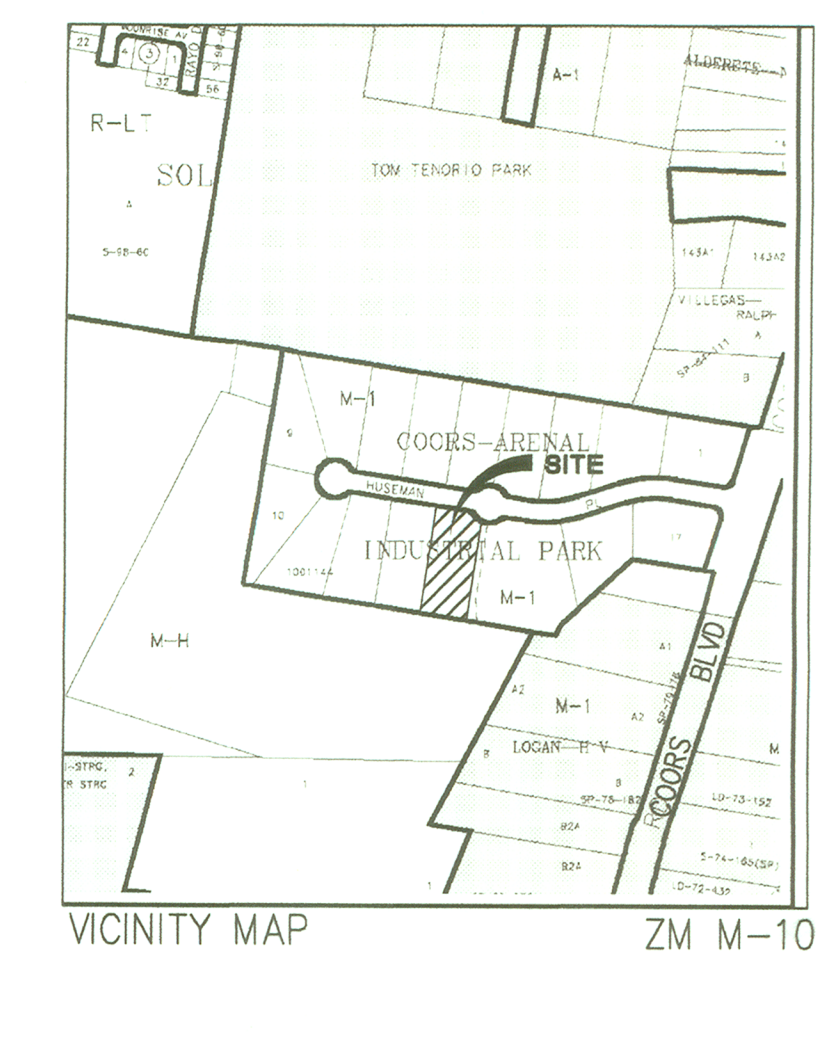
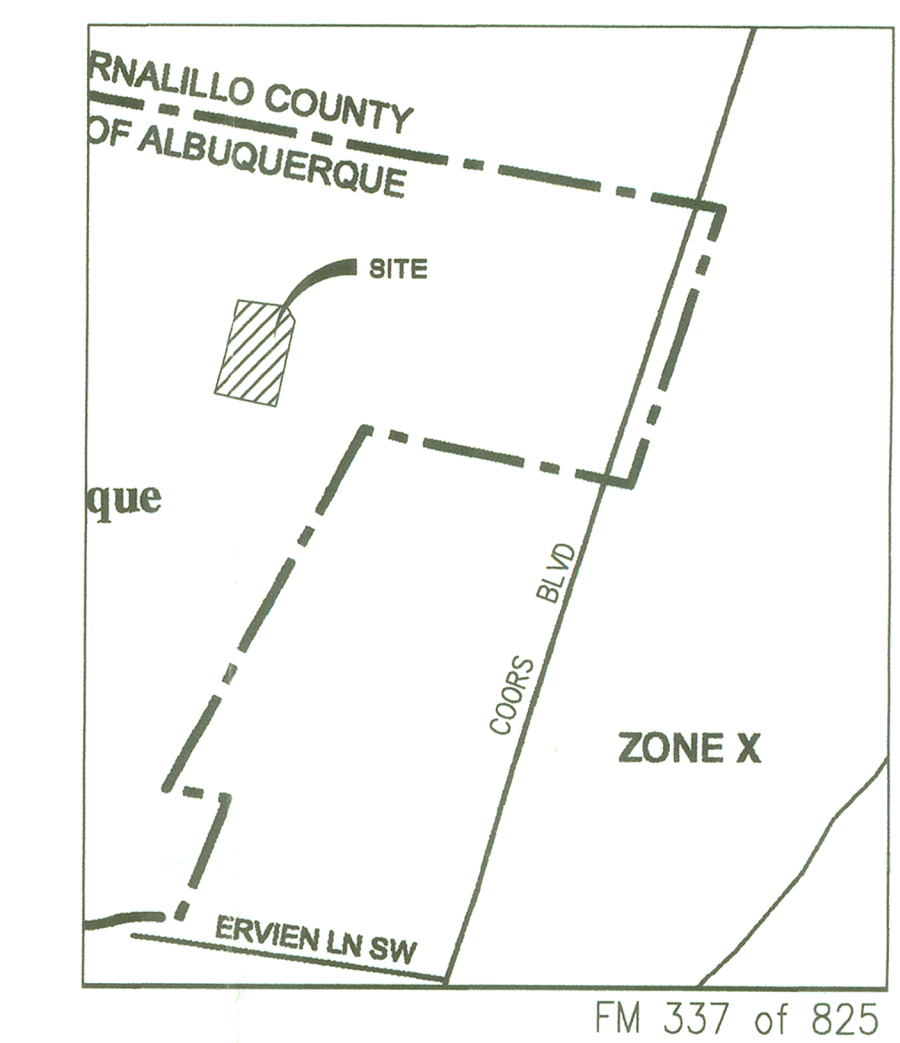
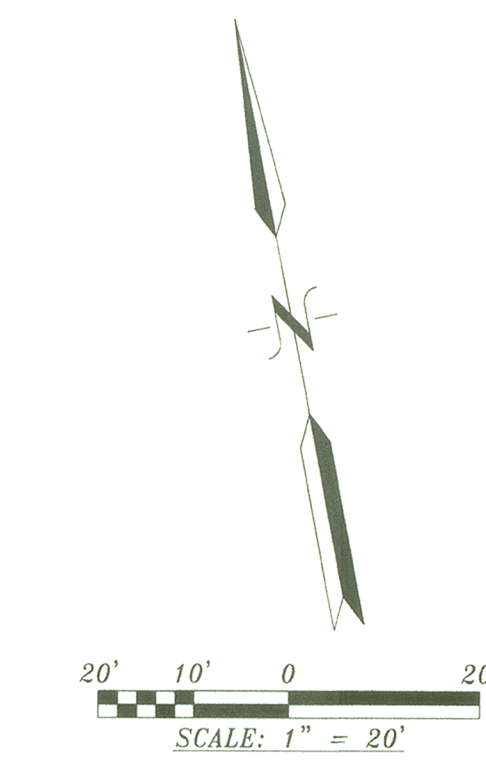
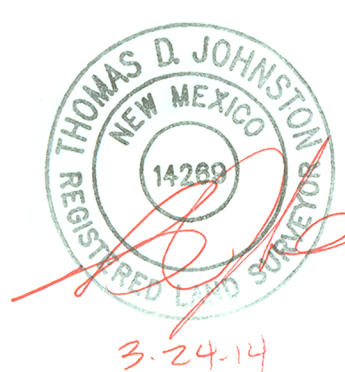
RETENTION VOLUME:
10 DAY VOL=VOL₁₀₀+A₀*(P_{10day}-P₁₀₀)/12
=0.107+.33*.96 *1.49/12
=0.146 AcFt OR 6374 CuFt

POND VOLUME:
CONTOUR AREA VOLUME
80 8350
78 6266 14,616 CF (.33 Ac Ft.)
DEPTH ≈ 0.9'

RED-LINE AS-BUILT PREPARED BY:

Wayjohn Surveying, Inc.
330 Louisiana Blvd. NE
Albuquerque, N.M. 87108-2062

AS-BUILT DATE: 3/17/2014
ELEVATIONS BASED ON ACS MONUMENT
9-M 11 (EL. 4957.54, NAVD 83 MSL)
LOCATED AT THE NW CORNER OF
HUSEMAN PLACE, SW AND COORS BLVD, SW.

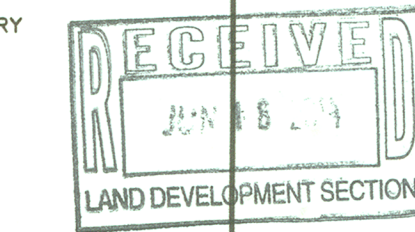


PROJECT DESCRIPTION

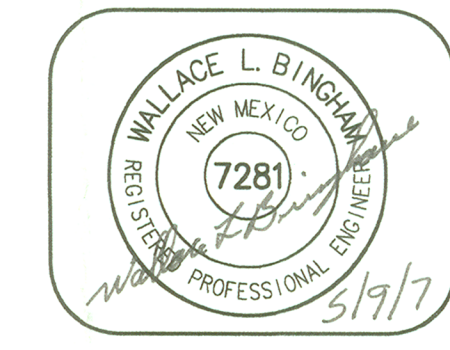
THE SITE IS NOT IN A FLOOD PLAIN.
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LEGEND

79.93	EXISTING SPOT ELEVATION
79.93	PROPOSED SPOT ELEVATION (GRND & TC)
79.93	EXISTING CURB AND GUTTER
79.93	EXISTING CONTOUR W/ INDEX ELEVATION
79.93	PROPOSED CONTOUR W/ INDEX ELEVATION
79.93	FLOW ARROW
79.93	BASIN BOUNDARY



BINCHAM ENGINEERING
6344 Belcher NE
Albuquerque, New Mexico 87109
505 797 4699



GRADING AND DRAINAGE PLAN
PALOMINO ROOFING CO.
6910 HUSEMAN DRIVE SW

DRAINAGE CERT W/ SURVEY WORK BY OTHERS
12/28/01

DRAINAGE CERTIFICATION

I, Bradley L. Bingham, NMPE 12697, OF THE FIRM Bingham Engineering, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 5/09/07. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY Wayjohn Surveying NMPS 14269, OF THE FIRM Wayjohn Surveying. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 3/26/14 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR Certificate of Occupancy.

The site was modified somewhat from the original plan. The driveway was move further east and the pond was constructed north of the originally proposed location. Fully grouted CMU wall constructed along entire perimeter of property. Required volume = 6374 cu.ft. Pond volume provided = 4750 cu.ft. which handles the impervious portion of the site. The remaining volume generated in the southern, unpaved portion is retained in place and kept from leaving the site by the fully grouted CMU wall.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

Bradley L. Bingham
Bradley L. Bingham, NMPE 12697
6/17/14
DATE

