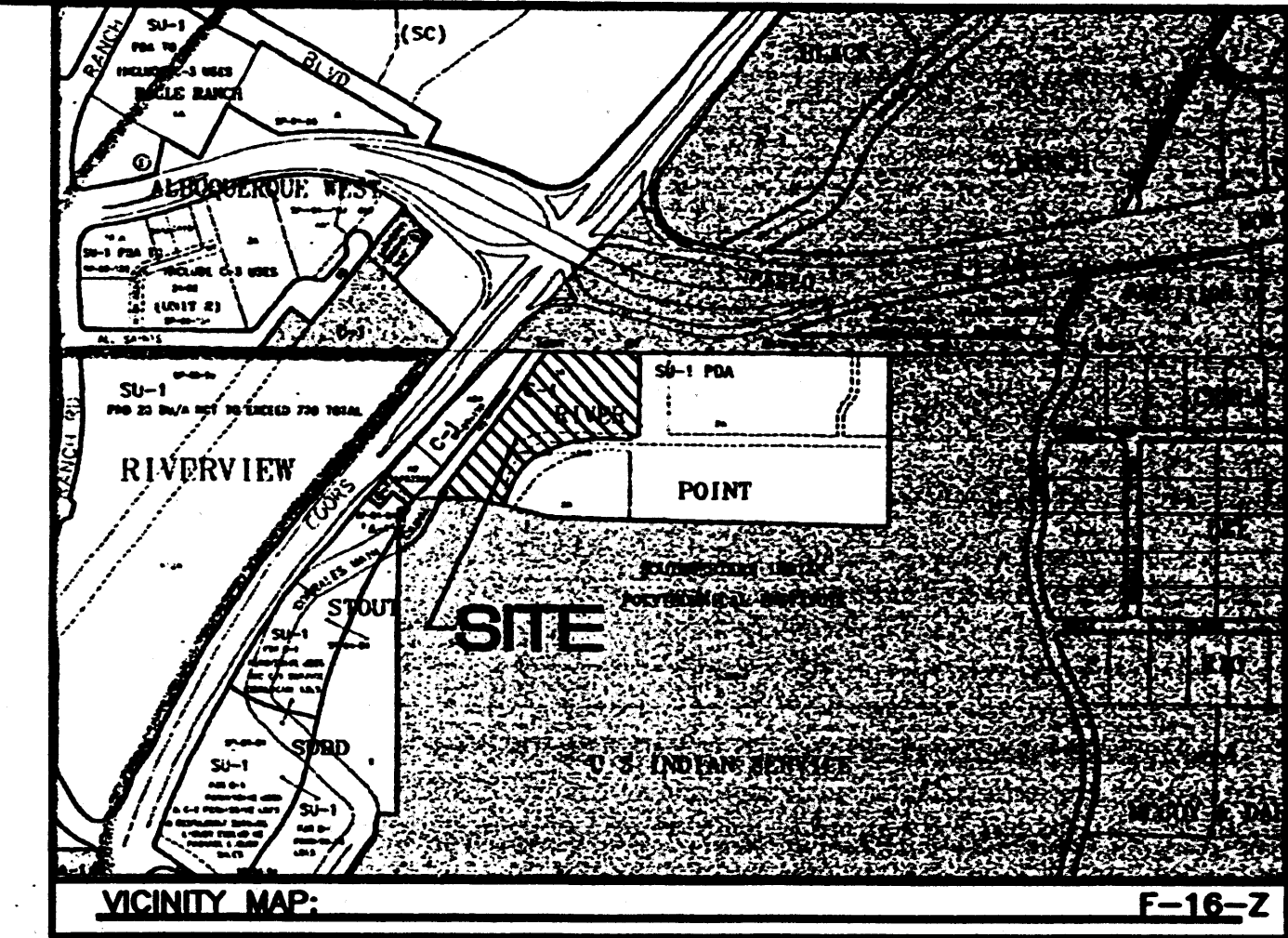
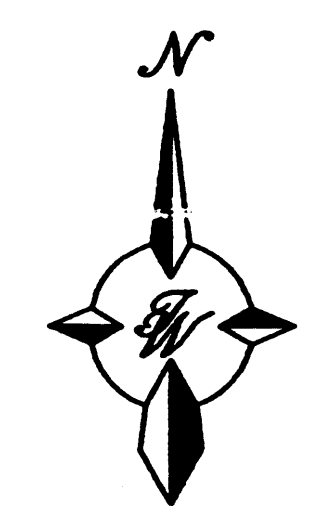




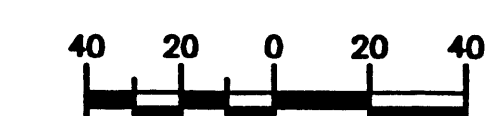
LEGAL DESCRIPTION:
TRACT 1-A, RIVER POINT

NOTES:
1. ALL ELEVATIONS ARE FLOWLINE, UNLESS OTHERWISE NOTED.
2. ALBUQUERQUE CONTROL STATION DATA: 711-C-133 STANDARD C.O.E.
BRASS TABLET (FOUND IN PLACE) N.M. STATE PLANE GRID COORDINATES
(CENTRAL ZONE) NAD 1927: X=375,354.28, Y=1,521,315.59, G-G=0.99967730
DELTA ALPHA=0.1425"

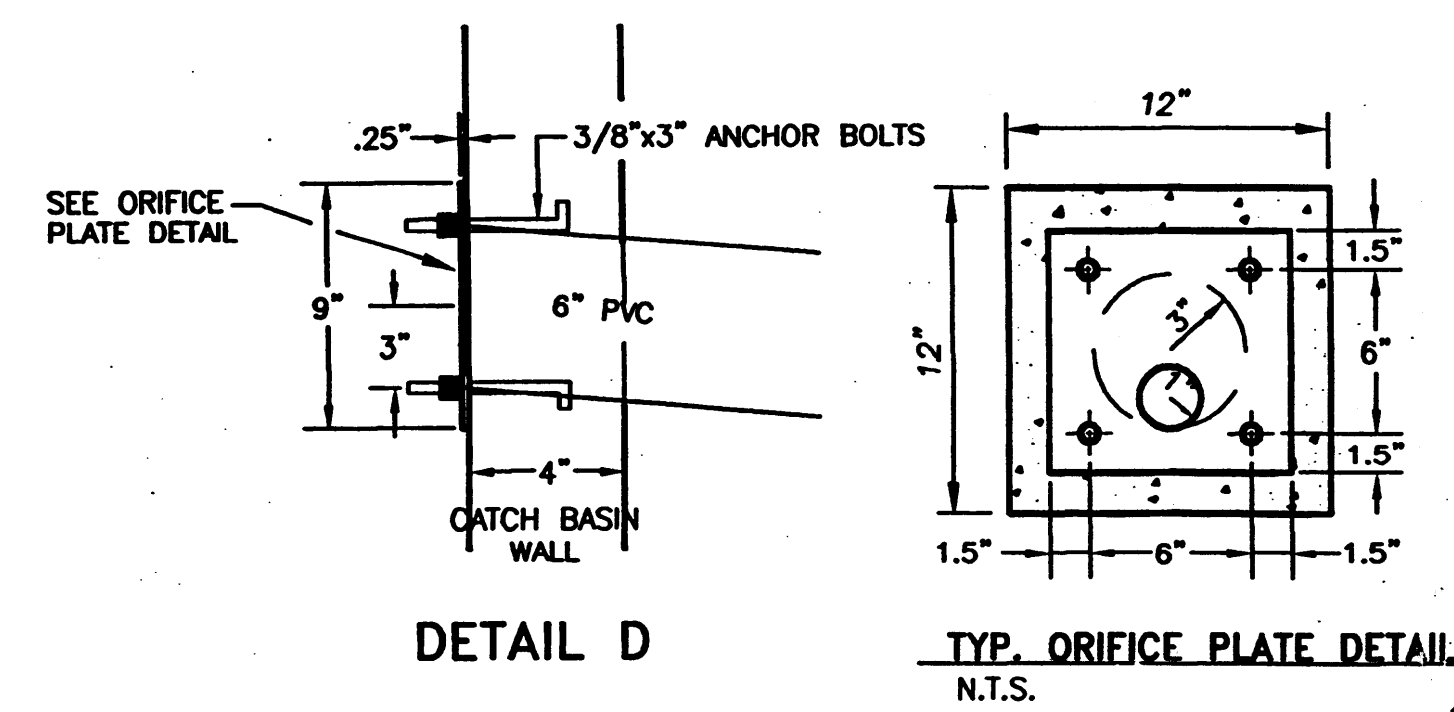
- LEGEND**
- EXISTING SAS MANHOLE
 - EXISTING SD MANHOLE
 - EXISTING METER
 - EXISTING VALVE W/BOX
 - EXISTING FIRE HYDRANT
 - EXISTING AIR RELEASE VALVE
 - EXISTING REDUCER
 - EXISTING SANITARY SEWER LINE
 - EXISTING WATER LINE
 - EXISTING STORM SEWER LINE
 - EXISTING CURB & GUTTER
 - BOUNDARY LINE
 - EASEMENT
 - PROPOSED SIDEWALK
 - DROP INLET
 - STREET LIGHTS
 - WOOD FENCE
 - BLOCK WALL
 - CHAIN LINK FENCE



GRAPHIC SCALE



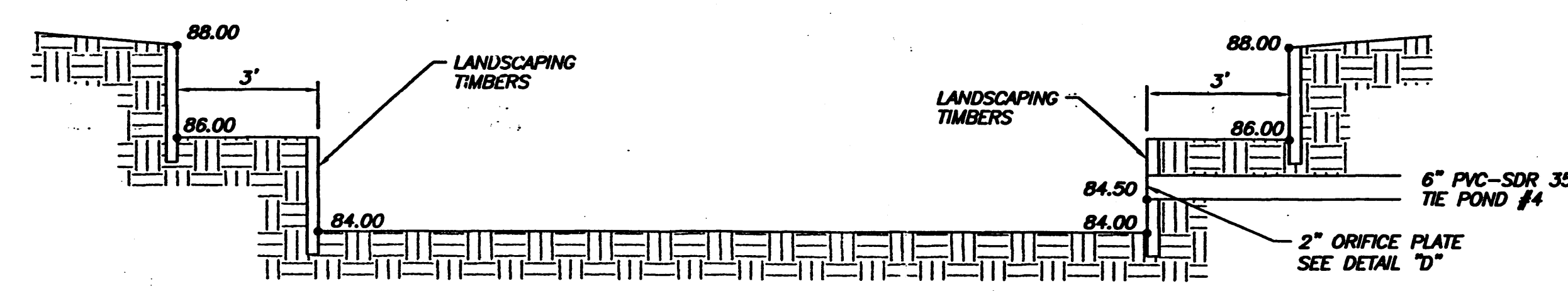
SCALE: 1"=40'



- INSTALL 4" FORCE MAIN TIE INTO BACK OF DRAIN @ INVERT 4991.42 GROUT 4"
- INSTALL 45' BENDS BLOCKING
- INSTALL 8' Dia. MANHOLE TYPE C MANHOLE WITH LID INVERT. 4980' SEE DETAIL SHEET 2 of 2
- INSTALL 4' Dia. TYPE C SEDIMENT BASIN WITH GRATE TOP SEE DETAIL SHEET 2 of 2

ACCESS TO COORS BOULEVARD, N.W. VIA PUBLIC ROADWAY EASEMENT AS RESERVED IN THAT DEED RECORDED APRIL 17, 1972 IN BOOK D916, PAGE 691.

UNPLATTED LANDS OF SOUTHWESTERN INDIAN POLYTECHNIC INSTITUTE (S.I.P.I.)



CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	265.64'	126.99'	64.73'	125.78'	S 33°43'25" W	27°23'26"
C2	432.60'	220.77'	112.85'	218.38'	N 75°22'49" E	29°14'24"
C3	335.06'	388.05'	219.08'	366.72'	S 60°04'14" W	66°21'25"
C4	150.00'	44.32'	22.32'	44.16'	N 81°12'28" W	16°55'44"
C5	150.00'	44.32'	22.32'	44.16'	N 81°12'28" W	16°55'44"
C6	29.50'	19.04'	9.86'	18.71'	S 37°50'26" W	36°58'48"

WEIGHTED E FOR POND RUNOFF

$$E = \frac{10(0.67) + 90(1.97)}{100} = 1.84 \text{ inches}$$

$$V_{90} = (1.84 / 12) 1.9727 = 0.3025 \text{ ac.ft. (13,176 cu.ft.)}$$

Pond #1 Volume Table

Elevation	Surface Area	$A_1 + A_2 / 2$	Delta H.	Volume in cf.
4988.50	9490.18	5974.90	0.50	2987.45
4988.00	2459.62	2066.99	2	4133.98
4986.00	1674.35	1351.05	2	2702.10
4984.00	1027.75	-	-	-
TOTAL 1				9823.53

DISCHARGE RATE 0.75 cfs

BASIN AREA 85,930.05 sf.
VOLUME 24 HOUR 0.3580 cf. (REQUIRED)
DISCHARGE TIME $\frac{0.3580(43580)}{(0.75)(60)(60)} = 5.77 \text{ HOURS}$ USE 24 HOUR STORM VOLUME
LAND TREATMENT B = 10%
D = 90%

Pond #2 Volume Table

Elevation	Surface Area	$A_1 + A_2 / 2$	Delta H.	Volume in cf.
4988.50	11936.90	9602.57	0.50	4801.29
4988.00	7268.23	4434.15	1	4434.15
4987.00	1600.06	959.30	1	959.30
4986.00	318.54	229.04	1	229.04
4985.00	139.54	86.12	1	86.12
4984.00	32.70	-	-	-
TOTAL 2				10,509.90

TOTAL VOLUME 1 + 2 = 20,323.43 cu.ft.

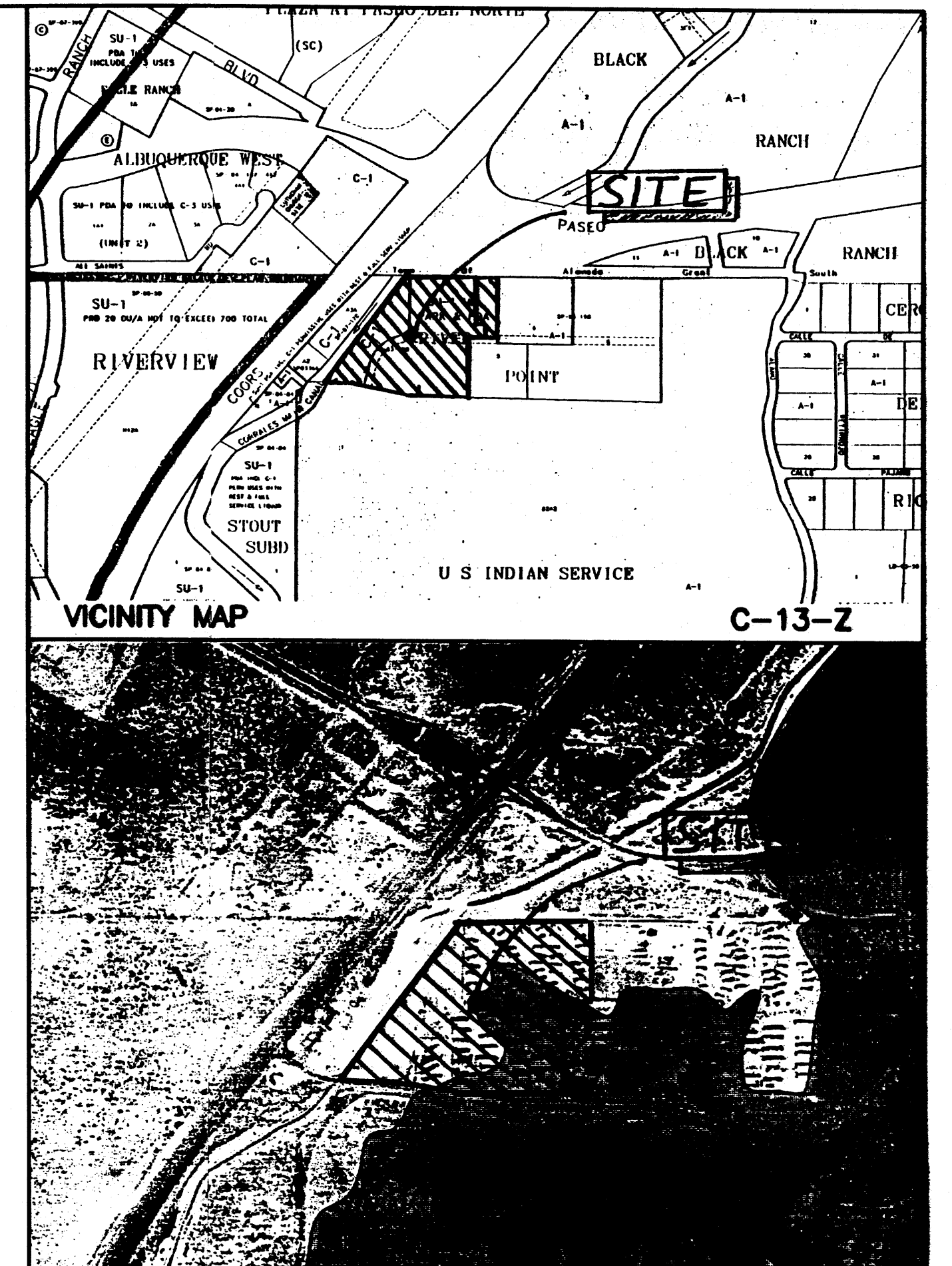
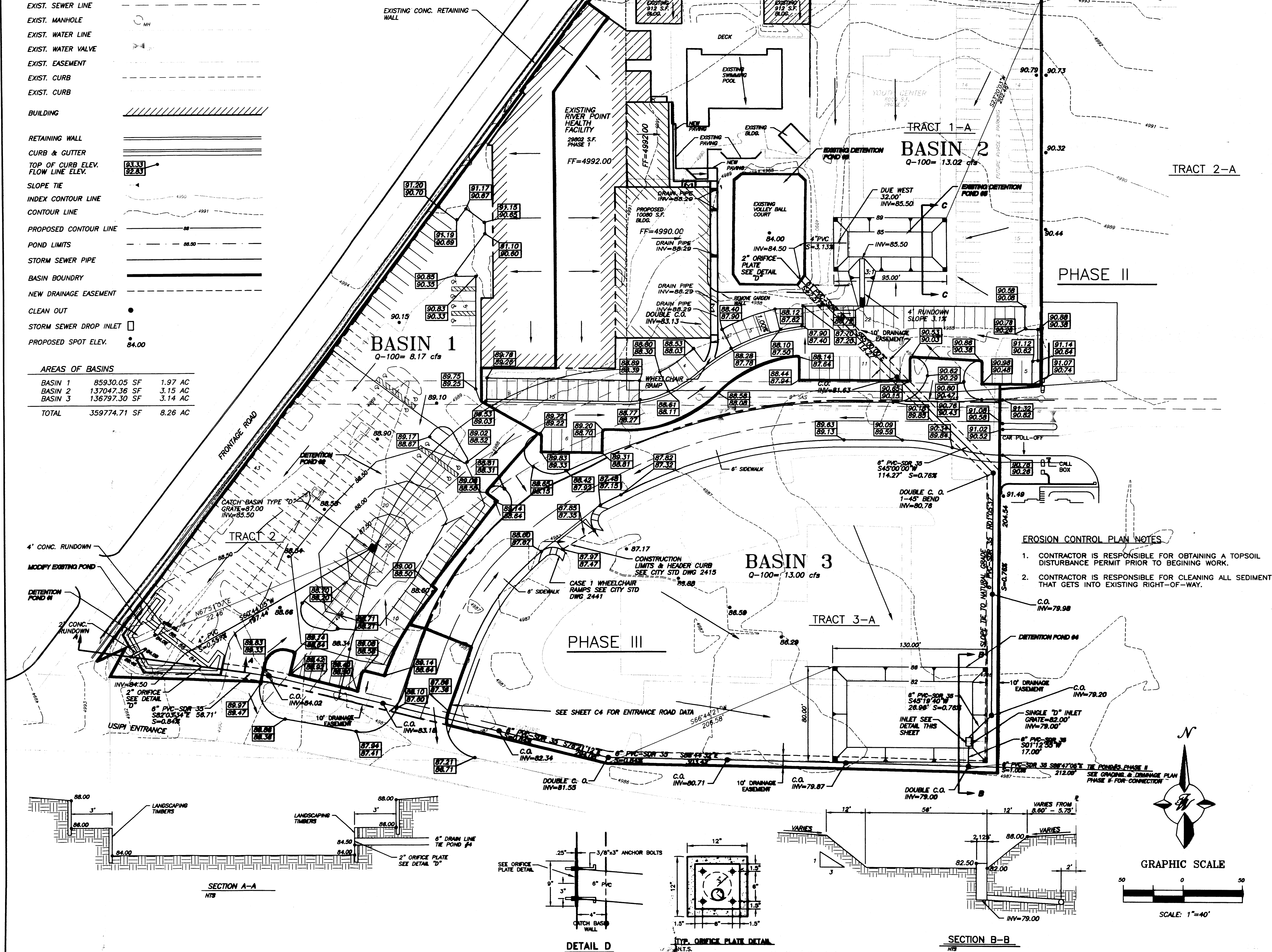
	RIVER POINT SPORTS AND WELLNESS	DRAWN BY MP
	POND DISCHARGE SYSTEM	DATE
	TIERRA WEST, LLC 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505)858-3100	03-23-2000
	SHEET #	
		1 of 2
		JOB #
		990070

LEGEND

BOUNDARY	---
BOUNDARY	---
SIDEWALK	---
EXIST. SEWER LINE	---
EXIST. MANHOLE	○ MH
EXIST. WATER LINE	---
EXIST. WATER VALVE	○
EXIST. EASEMENT	---
EXIST. CURB	---
EXIST. CURB	---
BUILDING	▨
RETAINING WALL	---
CURB & GUTTER	---
TOP OF CURB ELEV.	83.33
FLOW LINE ELEV.	82.83
SLOPE TIE	---
INDEX CONTOUR LINE	---
CONTOUR LINE	---
PROPOSED CONTOUR LINE	---
POND LIMITS	---
STORM SEWER PIPE	---
BASIN BOUNDARY	---
NEW DRAINAGE EASEMENT	---
CLEAN OUT	●
STORM SEWER DROP INLET	□
PROPOSED SPOT ELEV.	84.00

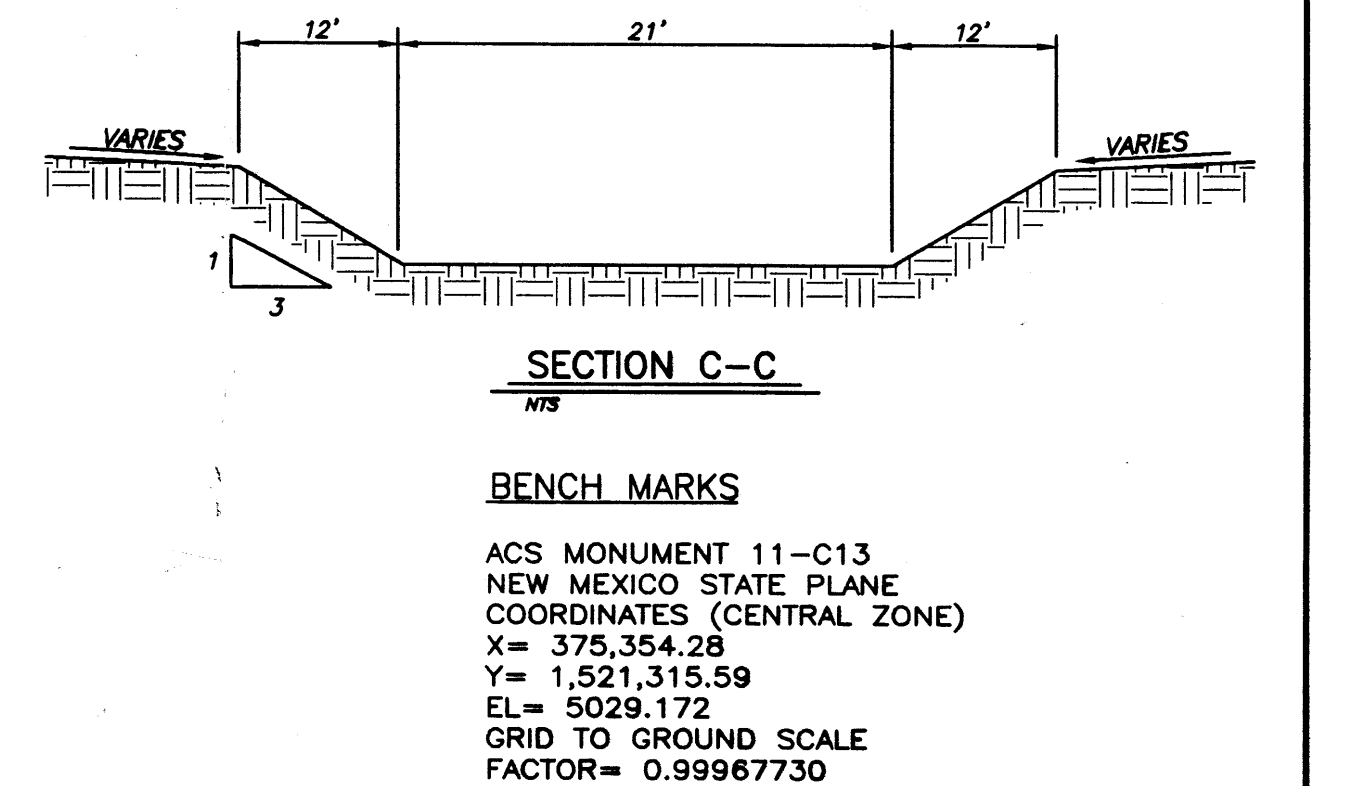
AREAS OF BASINS

BASIN 1	85930.05 SF	1.97 AC
BASIN 2	137047.36 SF	3.15 AC
BASIN 3	136797.30 SF	3.14 AC
TOTAL	359774.71 SF	8.26 AC

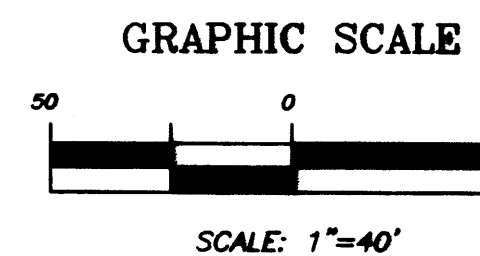
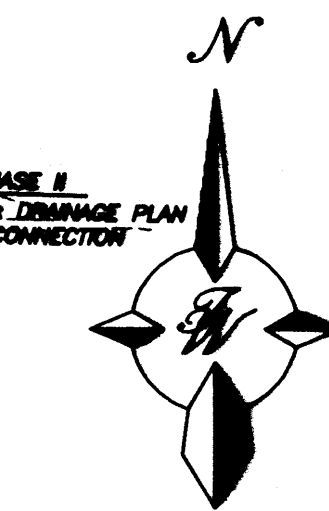


FEMA MAP 350002-0008 C

LEGAL DESCRIPTION: TRACTS 1-A, 2, AND 3-A, RIVER POINT ALBUQUERQUE, NM



- EROSION CONTROL PLAN NOTES
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
 - CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.



NO.	DATE	REVISIONS	BY
REVISIONS			
ENGINEER'S SEAL			
DRAWN BY JDN			
DATE 06-11-97			
9515GR.DWG			
SHEET #			
C2			
JOB # 950015			

GRADING & DRAINAGE
PLAN, PHASE III
SAN MIGUEL APARTMENTS
TRACTS 1 THRU 3-A, RIVER POINT
ALBUQUERQUE, NM

TERRA WEST DEVELOPMENT
MANAGEMENT SERVICES
4421 MCLEOD ROAD N.E., SUITE D
ALBUQUERQUE, NEW MEXICO 87109
(505)883-7592

RONALD R. BOHANNAN
P.E. #7888

950015/9515GR.DWG/JDN/06-11-97/40

~~SEE ARCHITECTURAL
DRAWING FOR RETAINING
WALL DETAIL~~

**MATCH EXISTING
GRADE**

88.89
88.39

88.80
88.30

88.53
88.03

1' R

8785

- DOUBLE C.O.
/ INV=83.13

- DRAIN PIPE
INV=88.29

— DRAIN PIPE
INV=88.29

↓ DRA
INV=

DRAIN PIPE
INV=88.29

— NEW PAVING

— EXISTING PAVING

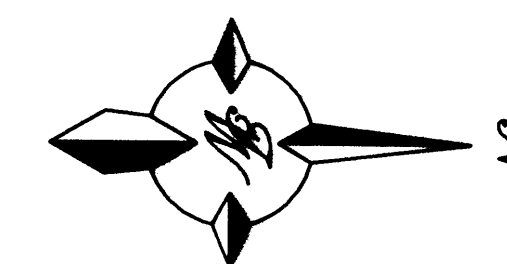
**EXISTING
SWIMMING
POOL**

DECK

EXISTING
VOLLEY BALL
COURT

TSW= TOP OF SIDEWALK

SCALE: 1"=10'



ENGINEER'S SEAL 	SAN MIGUEL APARTMENTS	DRAWN BY JDN
	DETAIL GRADING PLAN AROUND NEW BUILDING	DATE 06-11-97
	TIERRA WEST DEVELOPMENT MANAGEMENT SERVICES	SHEET # C6
RONALD R. BOHANNAN P.E. #7868	4421 McLEOD ROAD N.E., SUITE D ALBUQUERQUE, NEW MEXICO 87109 (505)883-7592	JOB # 950015