

DRAINAGE CALCULATIONS

ZONE=1
P₁₀₀=1.0
P₃₀=2.20
P₁₀=2.66
D_t=0.033 HR
T_r=0.133 HR

PROPOSED CONDITION

BASIN A-SOUTHERN PORTION OF SITE
AREA=.000901 SQ. MI.
TYPE "A"= 05.0%
TYPE "B"= 10.0%
TYPE "C"= 00.0%
TYPE "D"= 85.0%
Q_{PEAK}= 2.31 CFS
V₁₀₀= .0345 ACRE FEET

BASIN C-UNDEVELOPED PORTION OF SITE
AREA=.000192 SQ. MI.
TYPE "A"= 80.0%
TYPE "B"= 10.0%
TYPE "C"= 10.0%
TYPE "D"= 00.0%
Q_{PEAK}= 1.85 CFS
V₁₀₀= .0513 ACRE FEET

BASIN B-NORTHERN PORTION OF SITE
AREA=.000373 SQ. MI.
TYPE "A"= 05.0%
TYPE "B"= 10.0%
TYPE "C"= 12.0%
TYPE "D"= 70.0%
Q_{PEAK}= .92 CFS
V₁₀₀= .0325 ACRE FEET

TOTAL FOR BASIN A AND B
Q_{PEAK}= 3.23 CFS
V₁₀₀= .1169 ACRE FEET

TOTAL FOR ENTIRE SITE
Q_{PEAK}= 5.04 CFS
V₁₀₀= .1682 ACRE FEET
V₁₀₀= .1811 ACRE FEET

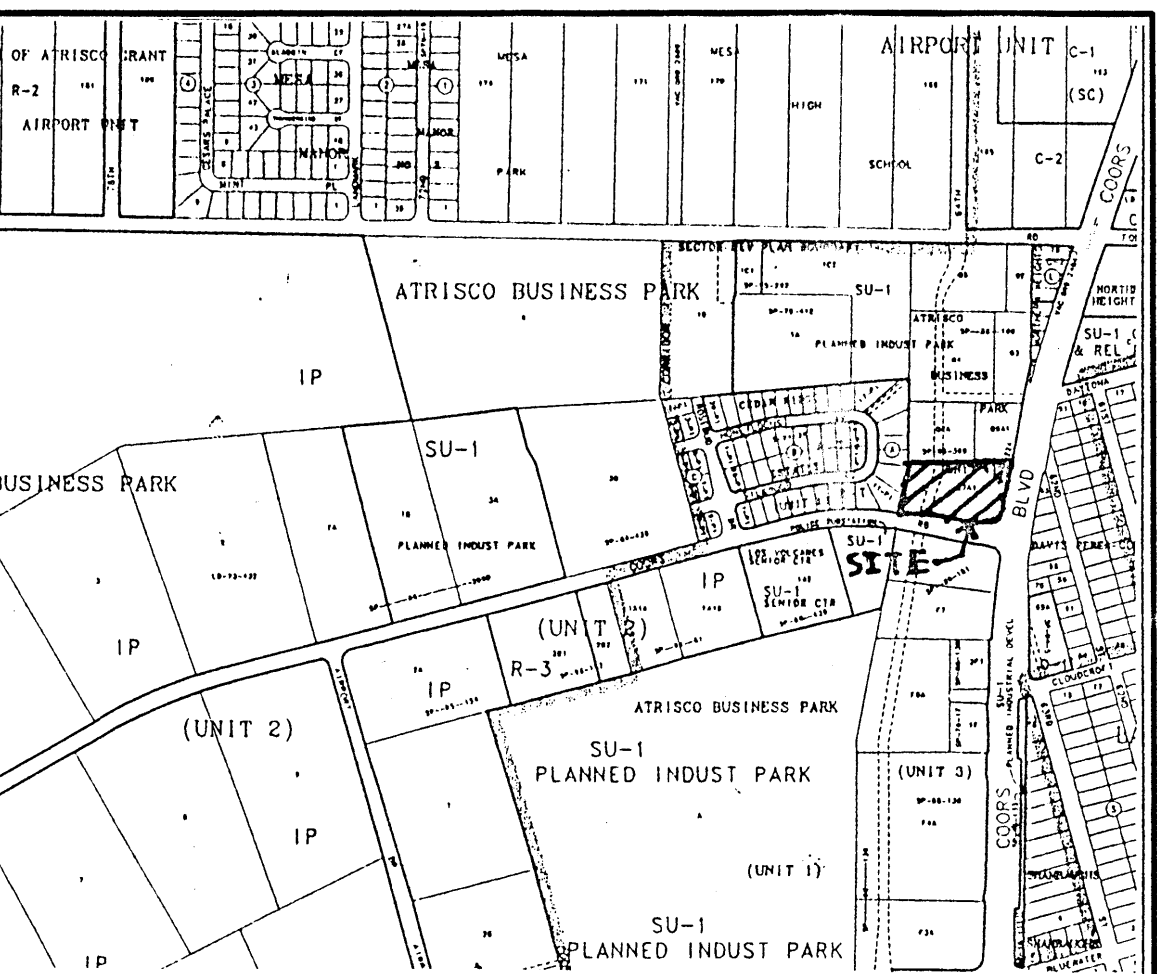
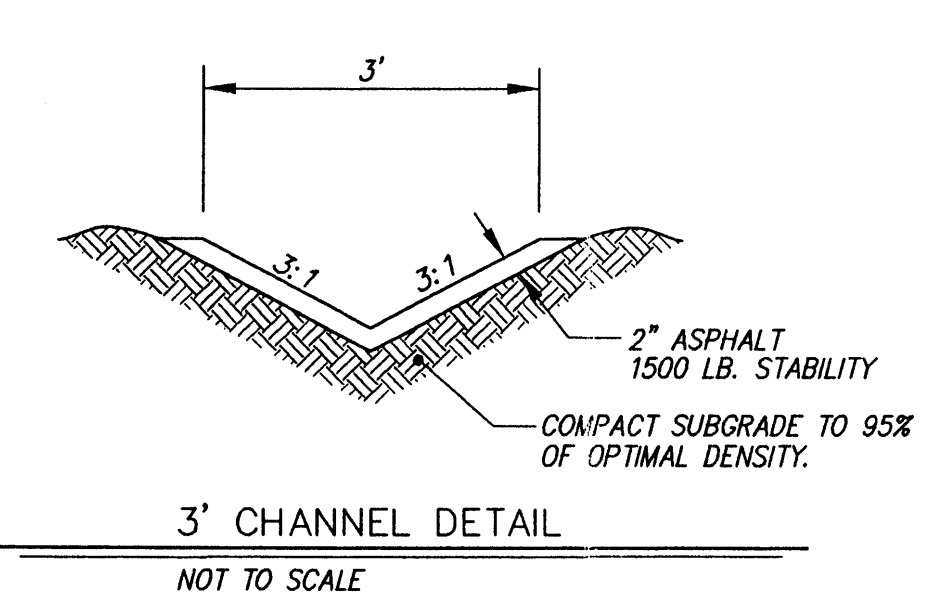
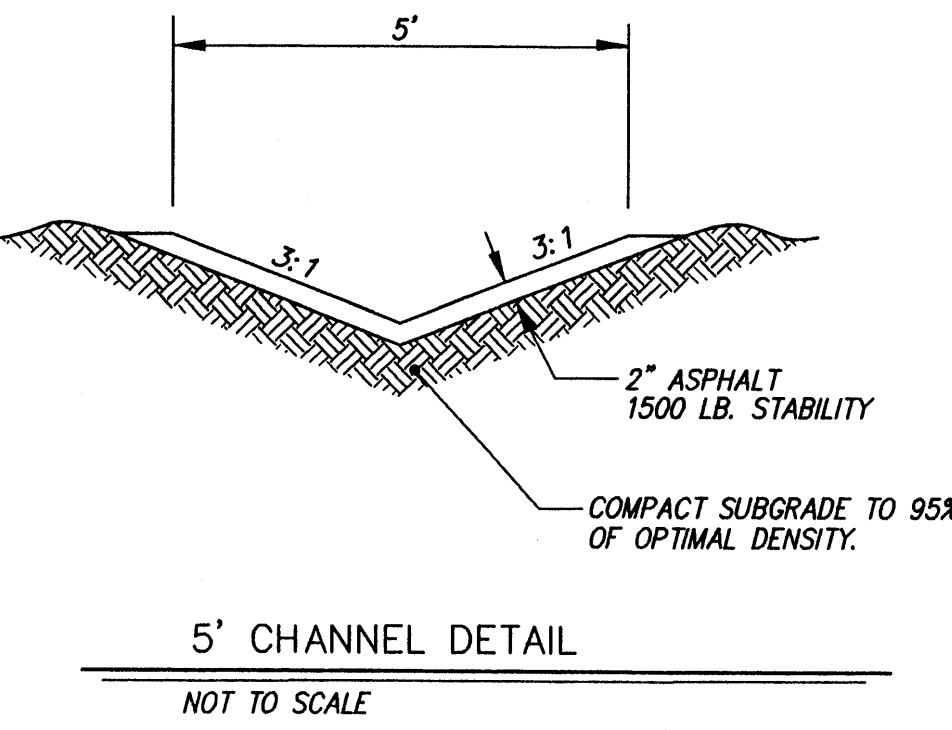
3' CHANNEL A CAPACITY
 $Q = \frac{1}{4} (A) R^2 S^2$
 $= (1.49 / .013) (.75) (.237) (0.12) = 3.60 > ACTUAL = 2.31$ CFS

3' CHANNEL B CAPACITY
 $Q = \frac{1}{4} (A) R^2 S^2$
 $= (1.49 / .013) (.75) (.237) (.019) = 4.54 > ACTUAL = 0.92$ CFS

5' CHANNEL C CAPACITY
 $Q = \frac{1}{4} (A) R^2 S^2$
 $= (1.49 / .013) (2.083) (.345) (.024) = 19.9 > ACTUAL = 5.04$ CFS

2.5' CURB OPENING CAPACITY
 $Q = 2.9 * L * H^3 = 2.56$ CFS

*1. How will the interior condition be eliminated when the right-of-way system is completed?
2. You need to indicate the final concept.
3. Will you be in with central drainage?*



VICINITY MAP ZONE MAP: J-10-Z

T B M (TEMPORARY BENCHMARK)
SANITARY SEWER MANHOLE AT THE INTERSECTION OF LOS VOLCANOS ROAD AND COORS BOULEVARD RIM ELEVATION=5102.78.

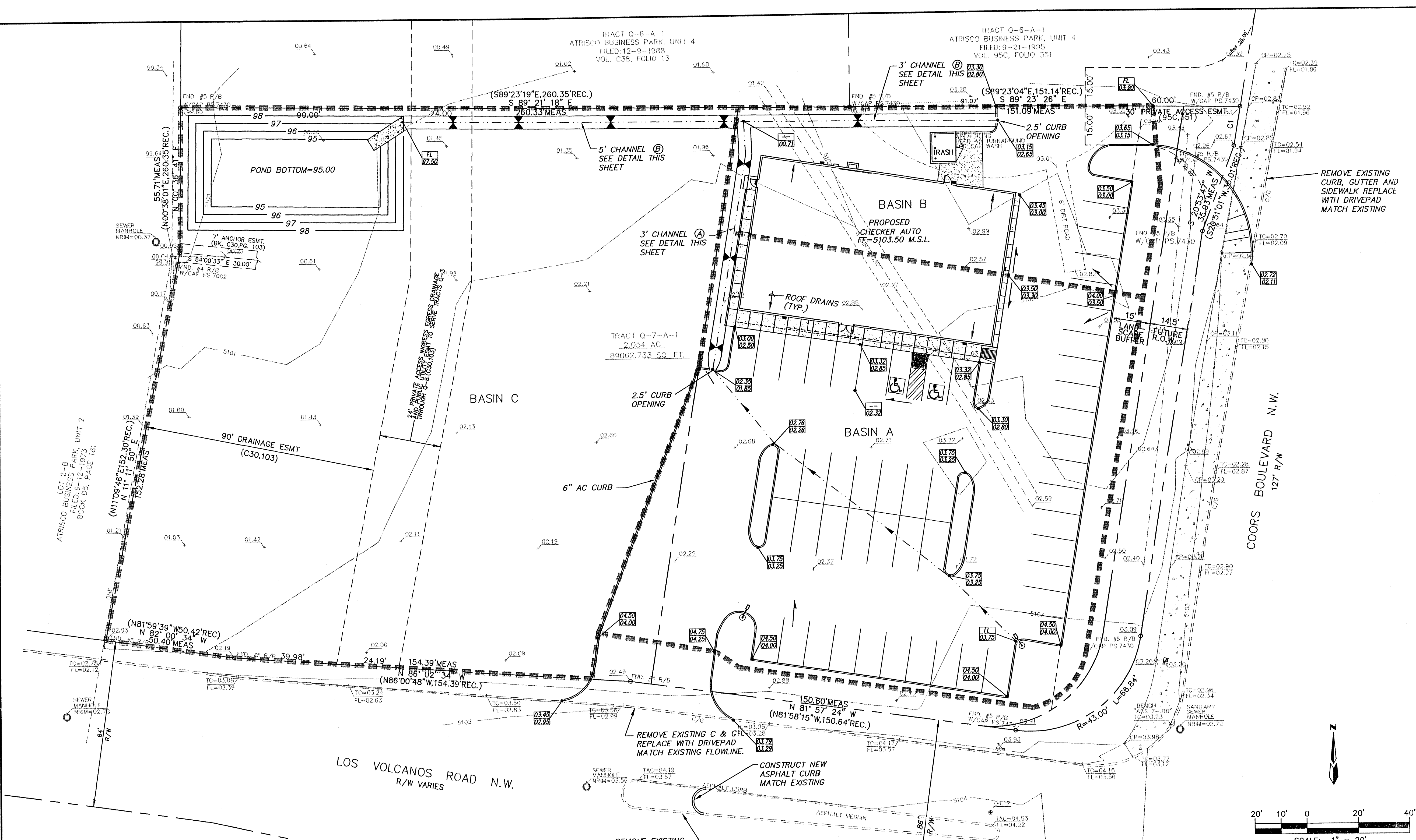
ACS BENCHMARK
STATION IS 3.3 MI. NW FROM DOWNTOWN ALBUQUERQUE AT THE INTERSECTION OF COORS RD. NO. AND CLOUDCROFT RD.
STATION IS LOCATED 125.0' SOUTH FROM CENTERLINE OF CLOUDCROFT AND 2.0' WEST FROM CENTERLINE OF COORS, IN LEFT TURN LANE OF NORTHBOUND COORS.
STATION IS A STANDARD C.O.A. BRASS CAP CONTAINED IN A MONUMENT BOX RECESSED INTO PAVEMENT, AND STAMPED "NM448-N2A".
X=362,356.55 Y=1,487,959.50 ELEV.=5100.128'

LEGAL DESCRIPTION
TRACT Q-7-A-1, ATRISCO BUSINESS PARK, UNIT 4, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

LEGEND	
---	EXISTING CONCRETE CURBING
TC	EXISTING TOP OF CURB
FL	EXISTING FLOW LINE
CP	EXISTING TOP OF CONCRETE
TAC	EXISTING TOP OF ASPHALT CURB
+	EXISTING LIGHT POLE
+	EXISTING TRAFFIC SIGNAL BOX
+	EXISTING FIREHYDRANT
+	EXISTING CABLE BOX
+	EXISTING POWER POLE W/ANCHOR
+	EXISTING POWER POLE / OVERHEAD ELECTRIC
---	EXISTING CONCRETE
---	EXISTING CONTOUR
02.66	EXISTING SPOT ELEVATION
04.50	PROPOSED TOP OF CURB AND FLOWLINE SPOT ELEVATION
+	PROPOSED LIGHT
+	FLOW ARROW
---	PROPERTY LINE
---	DRAINAGE BASIN BOUNDARY
---	PROPOSED CURB
---	PROPOSED SWALE
---	PROPOSED CONTOUR

CHECKER AUTO - COORS BLVD.
GRADING AND DRAINAGE PLAN

MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505)828-2200, FAX (505)797-9539



DRAINAGE CALCULATIONS

ZONE=1
P₁₀₀=1.97
P₅₀=2.20
P₁₀=2.66
D₁=0.033 HR
T_r=0.133 HR

PROPOSED CONDITION

BASIN A-SOUTHERN PORTION OF SITE
AREA=.000901 SQ. MI.
TYPE "A"= 05.0%
TYPE "B"= 10.0%
TYPE "C"= 00.0%
TYPE "D"= 85.0%
Q_{PEAK}= 2.31 CFS
V₁₀₀= .0845 ACRE FEET

BASIN C-UNDEVELOPED PORTION OF SITE
AREA=.000192 SQ. MI.
TYPE "A"= 80.0%
TYPE "B"= 10.0%
TYPE "C"= 10.0%
TYPE "D"= 00.0%
Q_{PEAK}= 1.85 CFS
V₁₀₀= .0513 ACRE FEET

TOTAL FOR BASIN A AND B
Q_{PEAK}= 3.23 CFS
V₁₀₀= .1169 ACRE FEET

TOTAL FOR ENTIRE SITE
Q_{PEAK}= 5.04 CFS
V₁₀₀= .1682 ACRE FEET
V₁₀₀= .1811 ACRE FEET

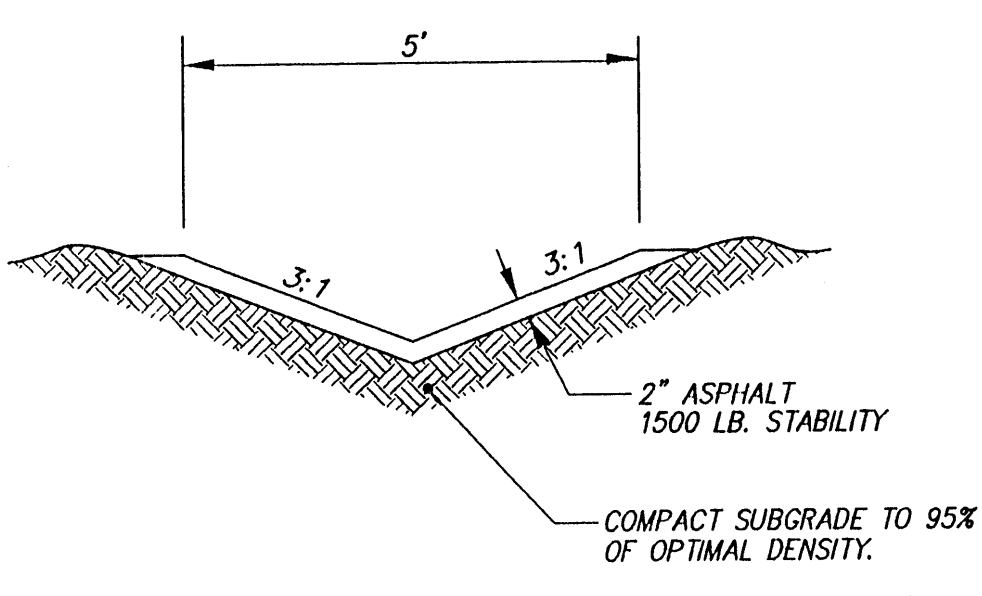
3' CHANNEL (A) CAPACITY
 $Q = \frac{1}{48} (A) R^{.58} S^{.58}$
 $= (1.49 / .013) (.75) (.237) (.012) = 3.60 > \text{ACTUAL} = 2.31 \text{ CFS}$

3' CHANNEL (B) CAPACITY
 $Q = \frac{1}{48} (A) R^{.58} S^{.58}$
 $= (1.49 / .013) (.75) (.237) (.019) = 4.54 > \text{ACTUAL} = 0.92 \text{ CFS}$

5' CHANNEL (C) CAPACITY
 $Q = \frac{1}{48} (A) R^{.58} S^{.58}$
 $= (1.49 / .013) (2.083) (.345) (.024) = 19.9 > \text{ACTUAL} = 5.04 \text{ CFS}$

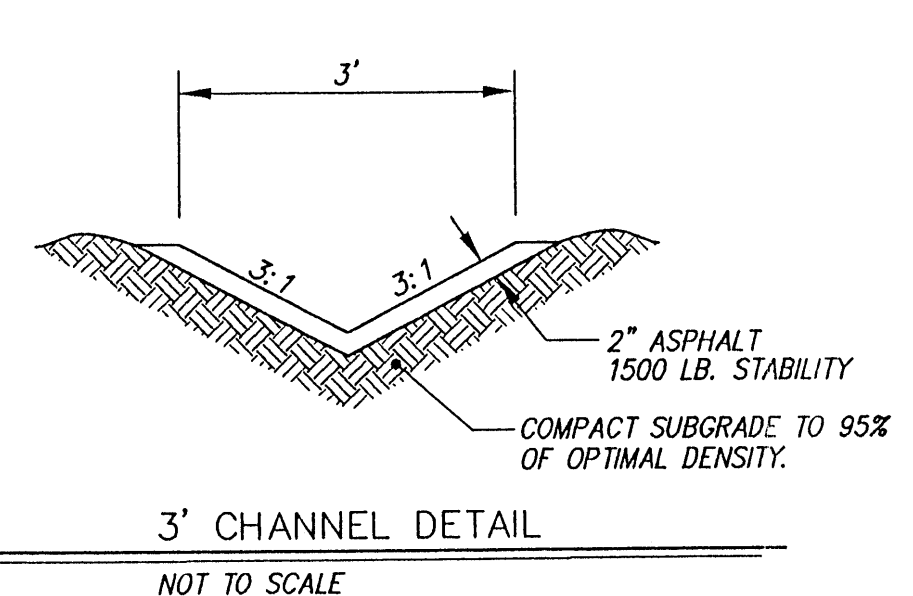
2.5' CURB OPENING CAPACITY
 $Q = 2.9 L^3 H^{.58} = 2.56 \text{ CFS}$

THE SITE CURRENTLY IS UNDEVELOPED. THE SITE DRAINS SOUTHEAST TO NORTHWEST WHERE IT DISCHARGES UPON THE ADJACENT PROPERTY. THE SITE IS LOCATED WITHIN THE WEST BLUFF DRAINAGE BASIN. ONCE THE WEST BLUFF SYSTEM IS IN PLACE THE SITE WILL HAVE FREE DISCHARGE TO THE SYSTEM WHICH WILL RUN ACROSS THE REAR PORTION OF THE SITE. FOR THE INTERIM CONDITIONS THE FLOW GENERATED ON SITE WILL BE CONVEYED VIA ASPHALT SWALES TO A RETENTION POND LOCATED WITHIN THE DRAINAGE EASEMENT AT THE WEST PORTION OF THE SITE. ONCE THE WEST BLUFF SYSTEM IS IN PLACE, THE SWALES WILL BE MODIFIED TO TIE IN TO THE SYSTEM.



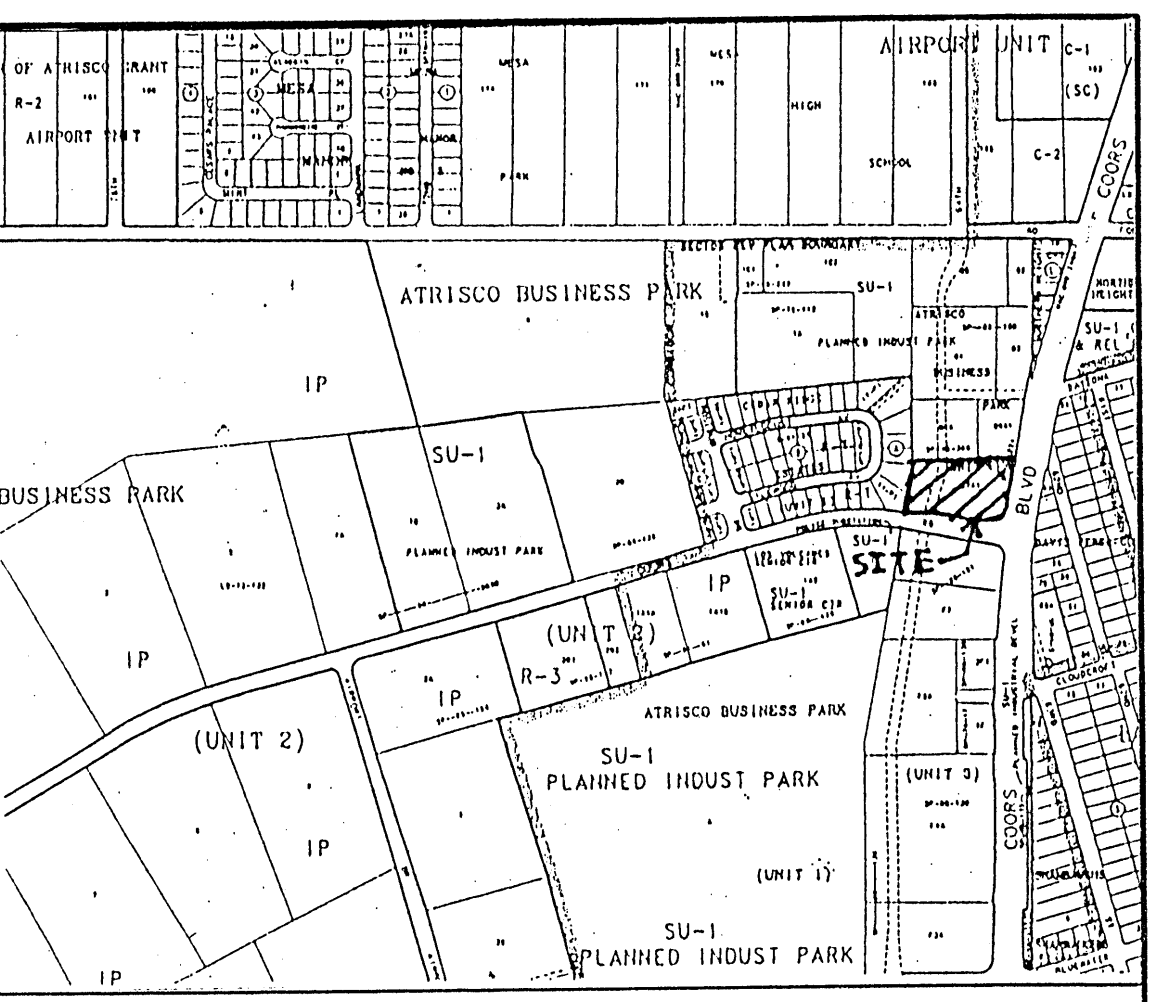
5' CHANNEL DETAIL

NOT TO SCALE



3' CHANNEL DETAIL

NOT TO SCALE



VICINITY MAP ZONE MAP: J-10-Z

T B M (TEMPORARY BENCHMARK)
SANITARY SEWER MANHOLE AT THE INTERSECTION OF LOS VOLCANOS ROAD AND COORS BOULEVARD RIM ELEVATION=5102.78.

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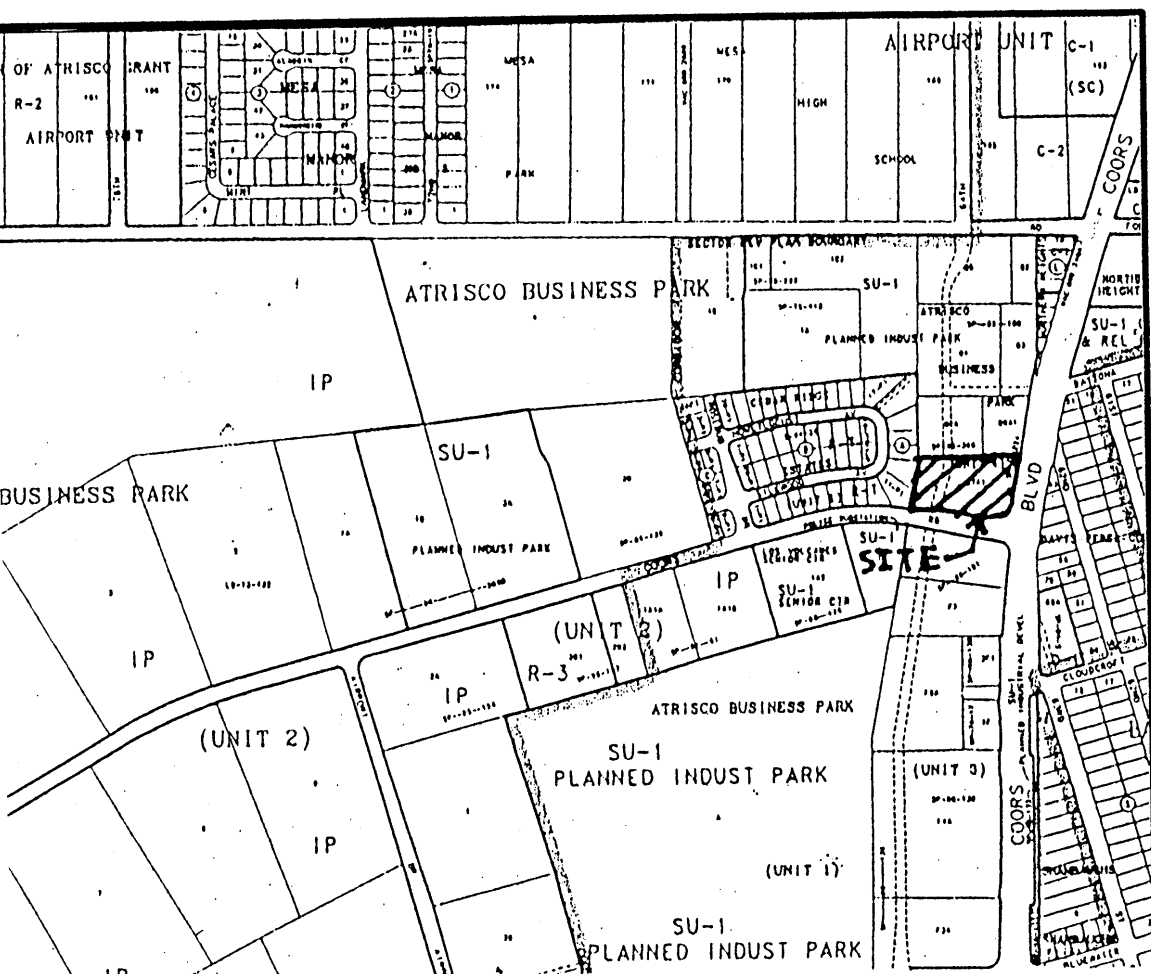
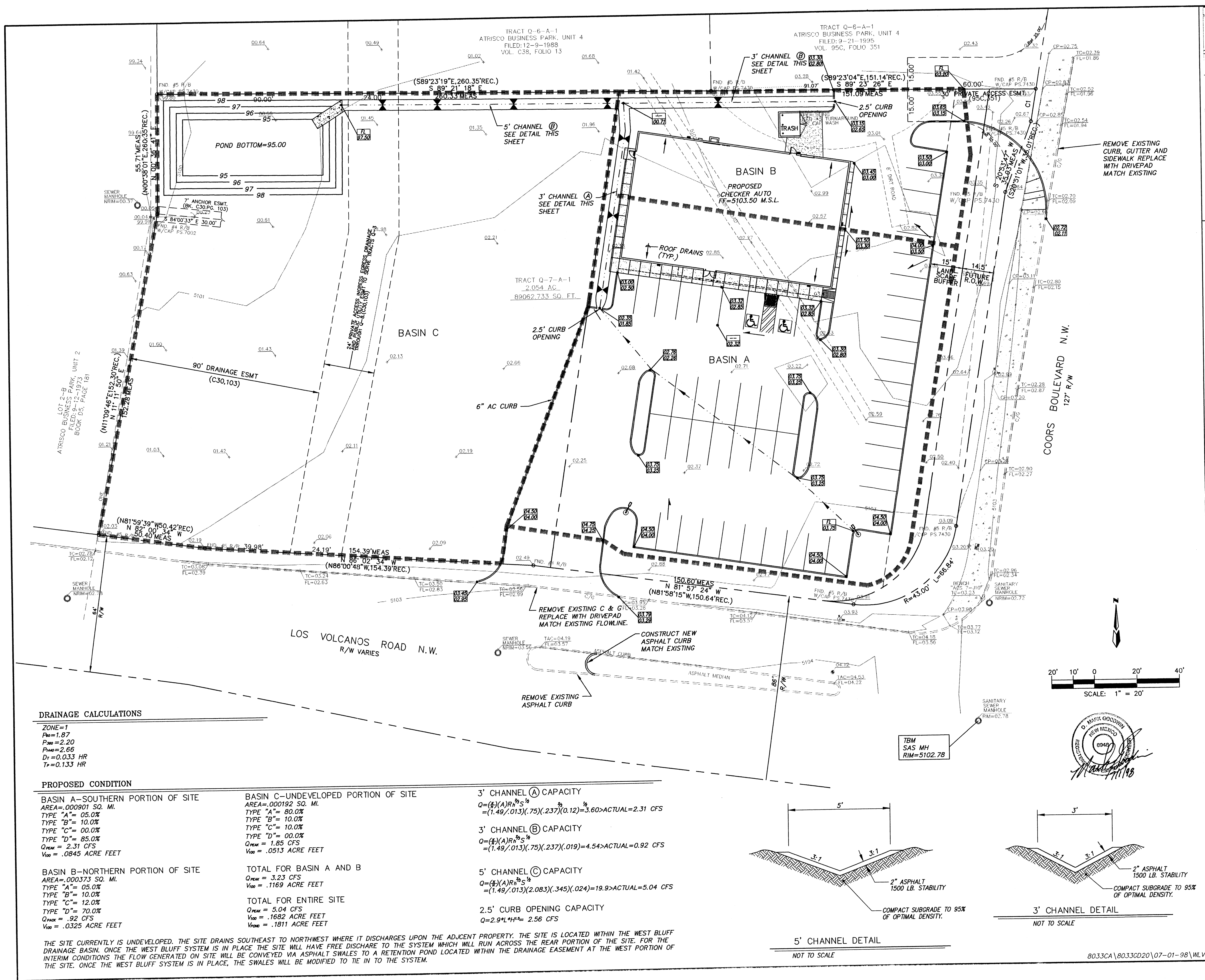
LEGEND	
---	EXISTING CONCRETE CURBING
TC	EXISTING TOP OF CURB
FL	EXISTING FLOW LINE
CP	EXISTING TOP OF CONCRETE
TAC	EXISTING TOP OF ASPHALT CURB
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+	EXISTING FIREHYDRANT
+	EXISTING CABLE BOX
+	EXISTING POWER POLE W/ANCHOR
+	EXISTING POWER POLE / OVERHEAD ELECTRIC
---	EXISTING CONCRETE
---	EXISTING CONTOUR
02.68	EXISTING SPOT ELEVATION
04.50	PROPOSED TOP OF CURB AND FLOWLINE SPOT ELEVATION
04.00	PROPOSED LIGHT
→	FLOW ARROW
---	PROPERTY LINE
---	DRAINAGE BASIN BOUNDARY
---	PROPOSED CURB
---	PROPOSED SWALE
---	PROPOSED CONTOUR
---	CONCRETE RUNDOWN

CHECKER AUTO - COORS BLVD.
GRADING AND DRAINAGE PLAN

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(505)828-2200, FAX (505)797-9539

Designed: DPS Drawn: WLW Checked: DMG Sheet CI of 2
Scale: 1" = 20' Date: 4/98 Job: 98033

8033CA\8033GD20\07-01-98\WLV



VICINITY MAP ZONE MAP: J-10-Z

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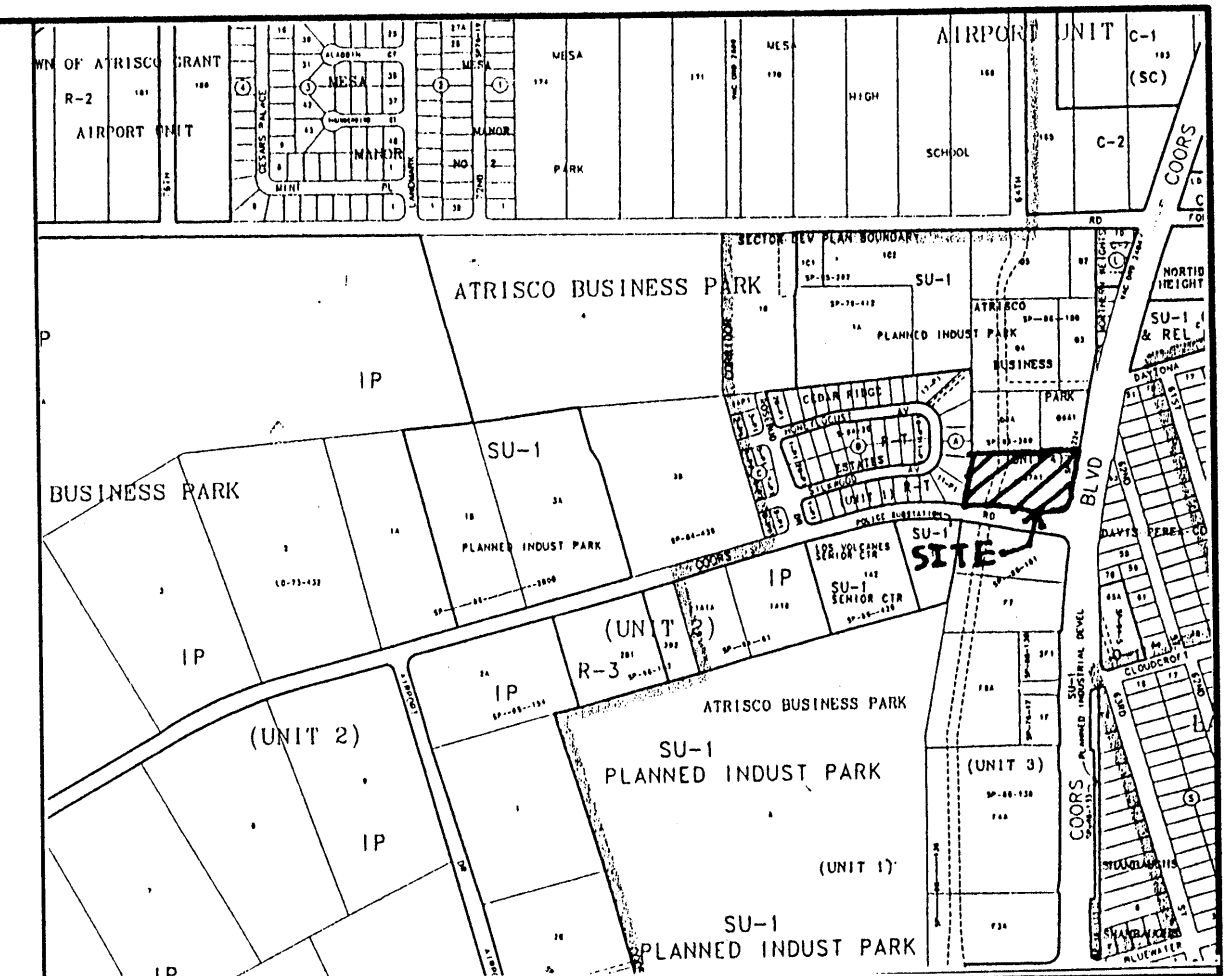
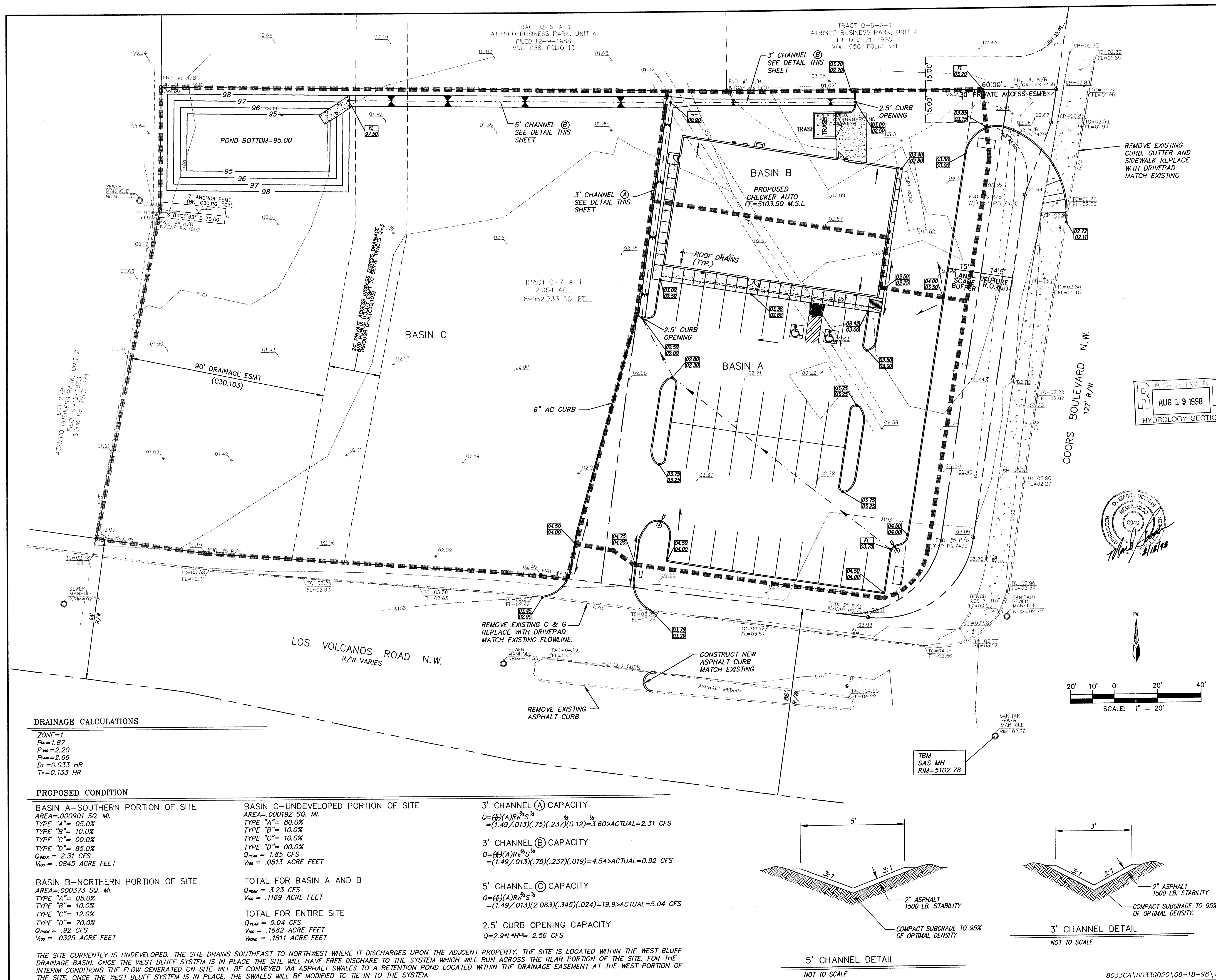
LEGAL DESCRIPTION
TRACT Q-7-A-1, ATRISCO BUSINESS PARK, UNIT 4, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

- LEGEND**
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 - EXISTING TOP OF CURB
 - EXISTING FLOW LINE
 - EXISTING TOP OF CONCRETE
 - EXISTING TOP OF ASPHALT CURB
 - EXISTING LIGHT POLE
 - EXISTING TRAFFIC SIGNAL BOX
 - EXISTING FIREHYDRANT
 - EXISTING CABLE BOX
 - EXISTING POWER POLE W/ANCHOR
 - EXISTING POWER POLE / OVERHEAD ELECTRIC
 - EXISTING CONCRETE
 - EXISTING CONTOUR
 - EXISTING SPOT ELEVATION
 - PROPOSED TOP OF CURB AND FLOWLINE SPOT ELEVATION
 - PROPOSED LIGHT
 - FLOW ARROW
 - PROPERTY LINE
 - DRAINAGE BASIN BOUNDARY
 - PROPOSED CURB
 - PROPOSED SWALE
 - PROPOSED CONTOUR
 - CONCRETE RUNDOWN

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GRADING AND DRAINAGE PLAN

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Scale: 1" = 20' Date: 4/98 Job: 98033



VICINITY MAP ZONE MAP: J-10-Z

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LEGAL DESCRIPTION
 TRACT Q-7-A-1, ATRISCO BUSINESS PARK, UNIT 4, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

LEGEND

---	EXISTING CONCRETE CURBING
TC	EXISTING TOP OF CURB
FL	EXISTING FLOW LINE
CP	EXISTING TOP OF CONCRETE
TAC	EXISTING TOP OF ASPHALT CURB
+	EXISTING LIGHT POLE
+	EXISTING TRAFFIC SIGNAL BOX
+	EXISTING FIREHYDRANT
+	EXISTING CABLE BOX
+	EXISTING POWER POLE W/ANCHOR
+	EXISTING POWER POLE / OVERHEAD ELECTRIC
---	EXISTING CONCRETE
---	EXISTING CONTOUR
5100	EXISTING SPOT ELEVATION
51.50	PROPOSED TOP OF CURB AND FLOWLINE SPOT ELEVATION
51.00	PROPOSED LIGHT
→	FLOW ARROW
---	PROPERTY LINE
---	DRAINAGE BASIN BOUNDARY
---	PROPOSED CURB
---	PROPOSED SWALE
---	PROPOSED CONTOUR
---	CONCRETE RUNDOWN

CHECKER AUTO - COORS BLVD. GRADING AND DRAINAGE PLAN

dmg MARK GOODWIN & ASSOCIATES, P.A.
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Designed: DPS	Drawn: WLW	Checked: DMG	Sheet: C1 of 2
Scale: 1" = 20'	Date: 4/98	Job: 98033	

DRAINAGE CALCULATIONS

ZONE=1
 $P_{100}=1.87$
 $P_{300}=2.20$
 $P_{1000}=2.66$
 $D_t=0.033$ HR
 $T_r=0.133$ HR

PROPOSED CONDITION

BASIN A-SOUTHERN PORTION OF SITE
 AREA=.000901 SQ. MI.
 TYPE "A"= 05.0%
 TYPE "B"= 10.0%
 TYPE "C"= 00.0%
 TYPE "D"= 85.0%
 $Q_{PEAK}=2.31$ CFS
 $V_{100}=.0845$ ACRE FEET

BASIN C-UNDEVELOPED PORTION OF SITE
 AREA=.000192 SQ. MI.
 TYPE "A"= 80.0%
 TYPE "B"= 10.0%
 TYPE "C"= 10.0%
 TYPE "D"= 00.0%
 $Q_{PEAK}=1.85$ CFS
 $V_{100}=.0513$ ACRE FEET

BASIN B-NORTHERN PORTION OF SITE
 AREA=.000373 SQ. MI.
 TYPE "A"= 05.0%
 TYPE "B"= 10.0%
 TYPE "C"= 12.0%
 TYPE "D"= 70.0%
 $Q_{PEAK}=1.92$ CFS
 $V_{100}=.0325$ ACRE FEET

TOTAL FOR BASIN A AND B
 $Q_{PEAK}=3.23$ CFS
 $V_{100}=.1169$ ACRE FEET

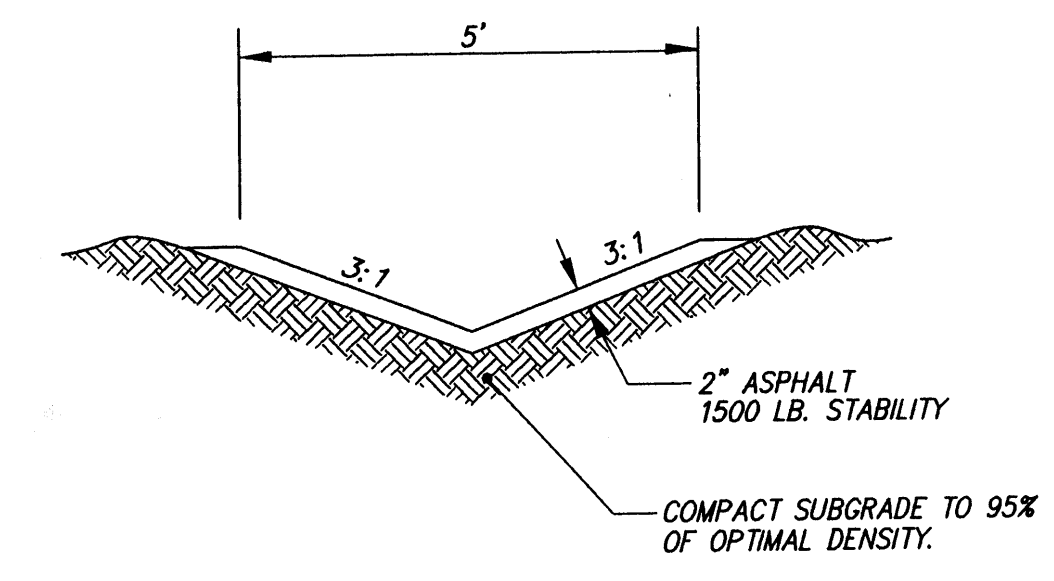
TOTAL FOR ENTIRE SITE
 $Q_{PEAK}=5.04$ CFS
 $V_{100}=1.682$ ACRE FEET
 $V_{1000}=.1811$ ACRE FEET

3' CHANNEL (A) CAPACITY
 $Q=(\frac{4}{3})(A)R^{2/3}S^{1/2}$
 $=(1.49/.013)(.75)(.237)(.012)=3.60>ACTUAL=2.31$ CFS

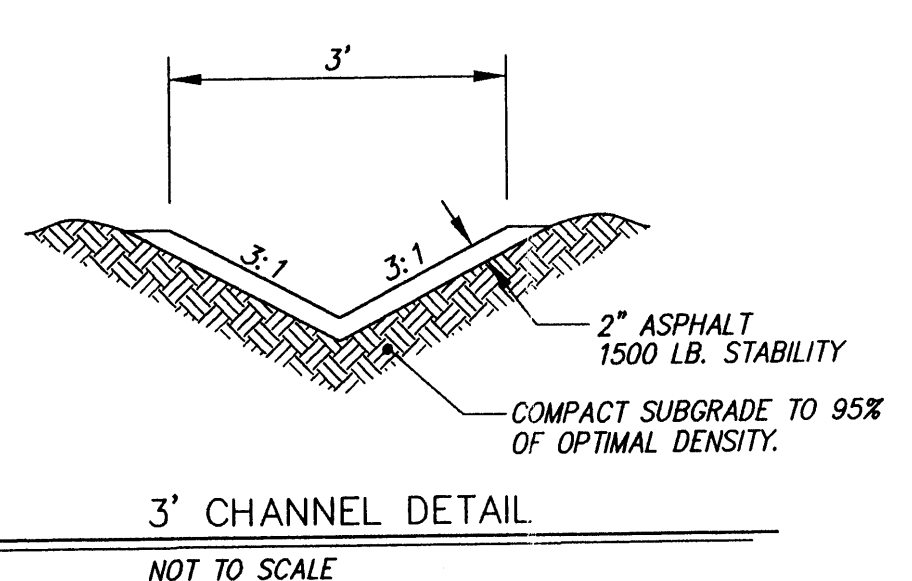
3' CHANNEL (B) CAPACITY
 $Q=(\frac{4}{3})(A)R^{2/3}S^{1/2}$
 $=(1.49/.013)(.75)(.237)(.019)=4.54>ACTUAL=0.92$ CFS

5' CHANNEL (C) CAPACITY
 $Q=(\frac{4}{3})(A)R^{2/3}S^{1/2}$
 $=(1.49/.013)(2.083)(.345)(.024)=19.9>ACTUAL=5.04$ CFS

2.5' CURB OPENING CAPACITY
 $Q=2.9 \cdot L \cdot H^{3/2} \cdot S^{1/2}$
 $=2.9 \cdot 5 \cdot 1^{3/2} \cdot 0.024^{1/2}=2.56$ CFS

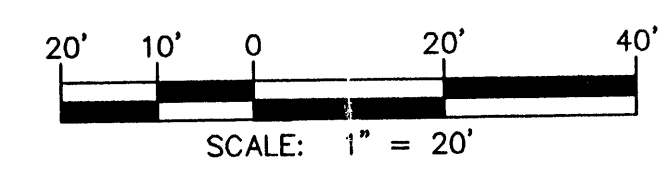


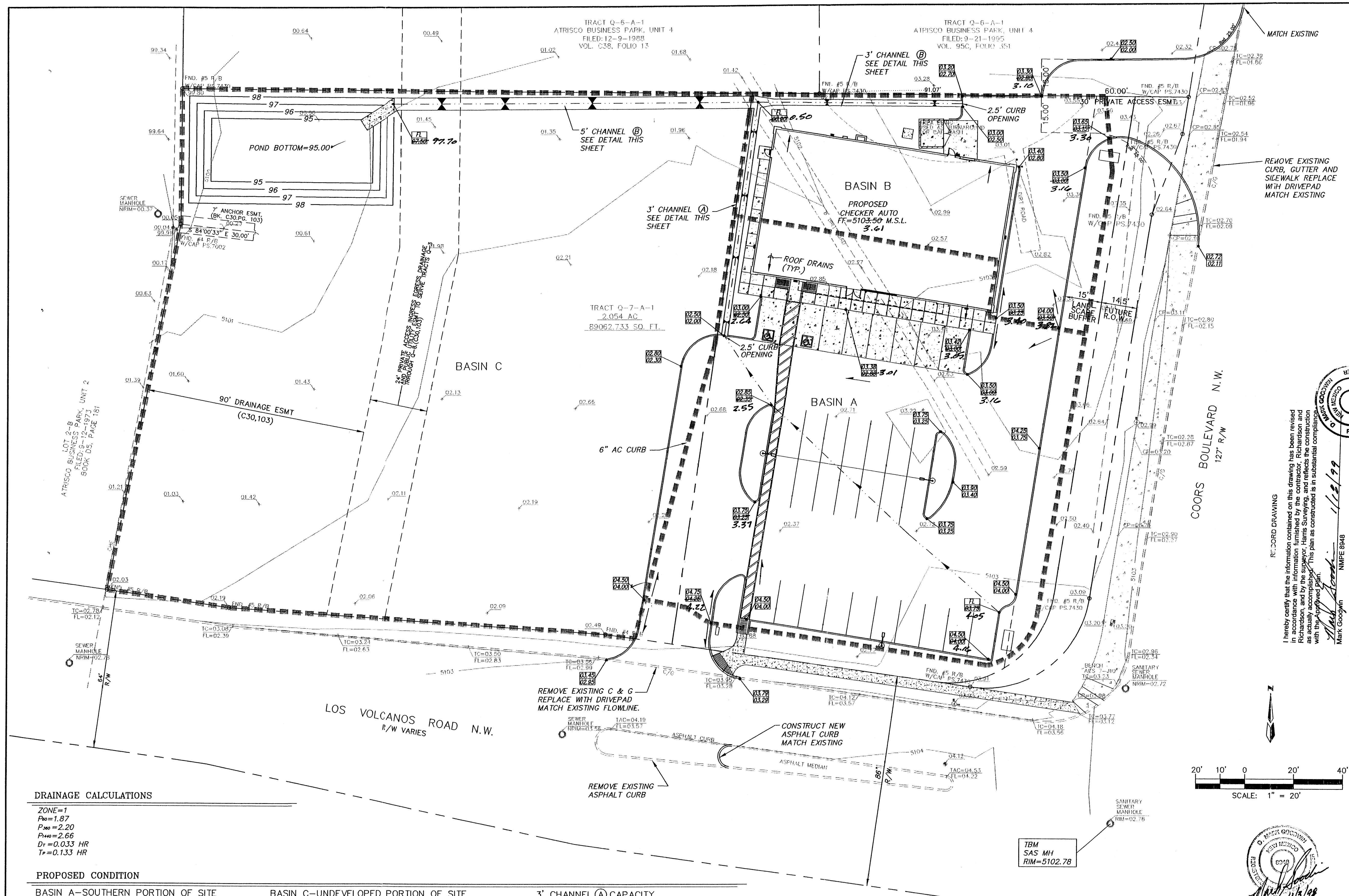
5' CHANNEL DETAIL
 NOT TO SCALE



3' CHANNEL DETAIL
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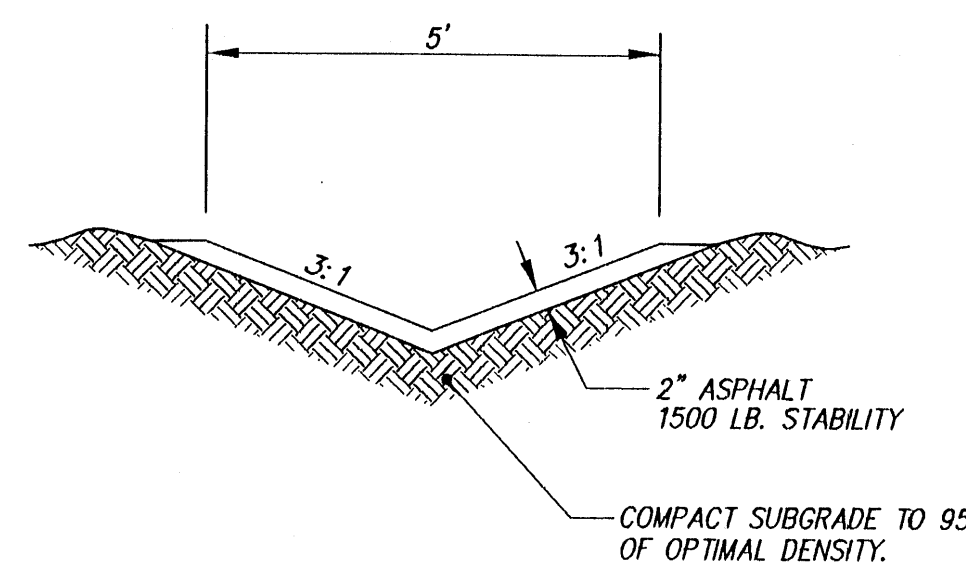
3' CHANNEL (A) CAPACITY
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3' CHANNEL (B) CAPACITY
 $Q=(\frac{4}{3})(A)R^{\frac{2}{3}}S^{\frac{1}{2}}$
 $=(1.49/.013)(.75)(.237)(.019)=4.54>ACTUAL=0.92$ CFS

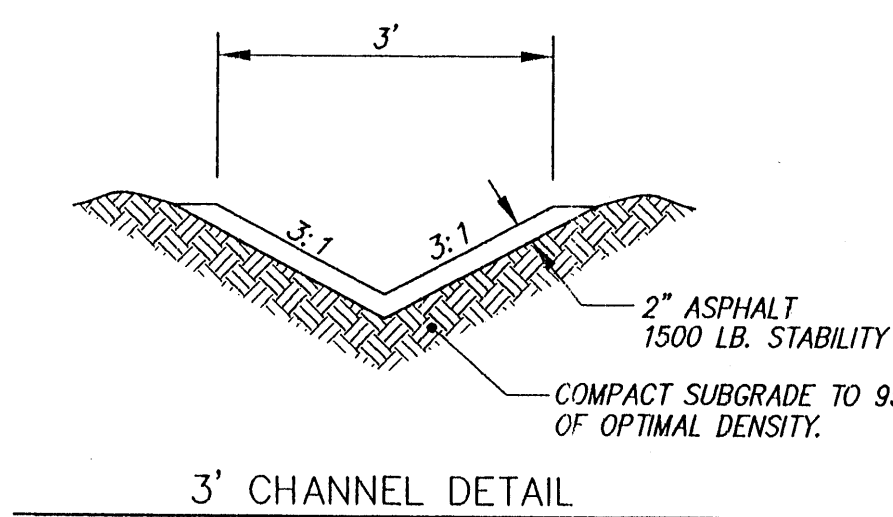
5' CHANNEL (C) CAPACITY
 $Q=(\frac{4}{3})(A)R^{\frac{2}{3}}S^{\frac{1}{2}}$
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2.5' CURB OPENING CAPACITY
 $Q=2.9L^{\frac{1}{2}}H^{\frac{3}{2}}=2.56$ CFS

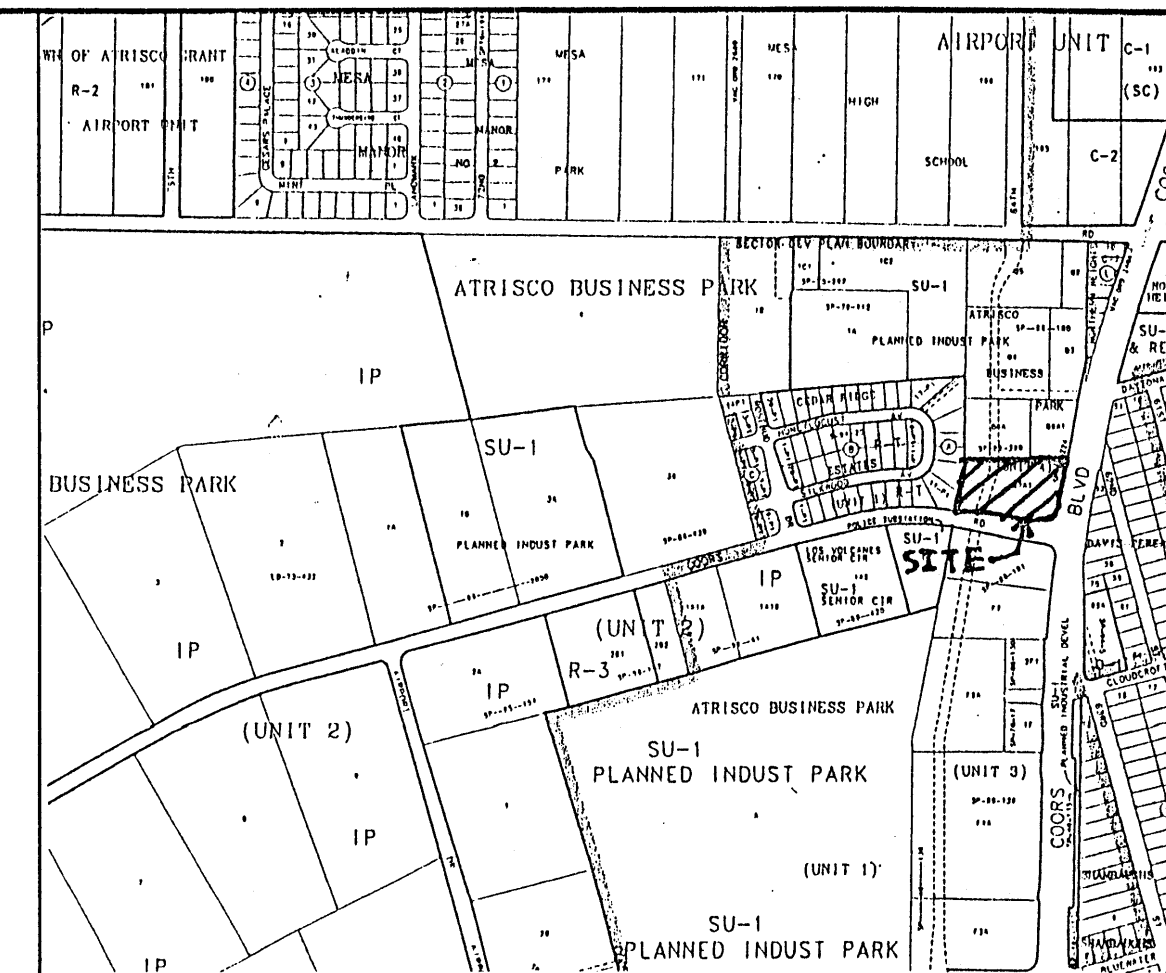
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5' CHANNEL DETAIL
 NOT TO SCALE



3' CHANNEL DETAIL
 NOT TO SCALE



VICINITY MAP ZONE MAP: J-10-Z

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SANITARY SEWER MANHOLE AT THE INTERSECTION OF LOS VOLCANOS ROAD AND COORS BOULEVARD RIM ELEVATION=5102.78.

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- EXISTING TOP OF ASPHALT CURB
- EXISTING LIGHT POLE
- EXISTING TRAFFIC SIGNAL BOX
- EXISTING FIREHYDRANT
- EXISTING CABLE BOX
- EXISTING POWER POLE W/ANCHOR
- EXISTING POWER POLE / OVERHEAD ELECTRIC
- EXISTING CONCRETE
- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED TOP OF CURB AND FLOWLINE SPOT ELEVATION
- PROPOSED LIGHT
- FLOW ARROW
- PROPERTY LINE
- DRAINAGE BASIN BOUNDARY
- PROPOSED CURB
- PROPOSED SWALE
- PROPOSED CONTOUR
- CONCRETE RUNDOWN

CHECKER AUTO - COORS BLVD. GRADING AND DRAINAGE PLAN

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 (505)828-2200, FAX (505)797-9539

Designed: DPS Drawn: WLW Checked: DMG Sheet CI of 2
 Scale: 1" = 20' Date: 9/98 Job: 98033

8033CA\8033GD20\11-03-98\WLW