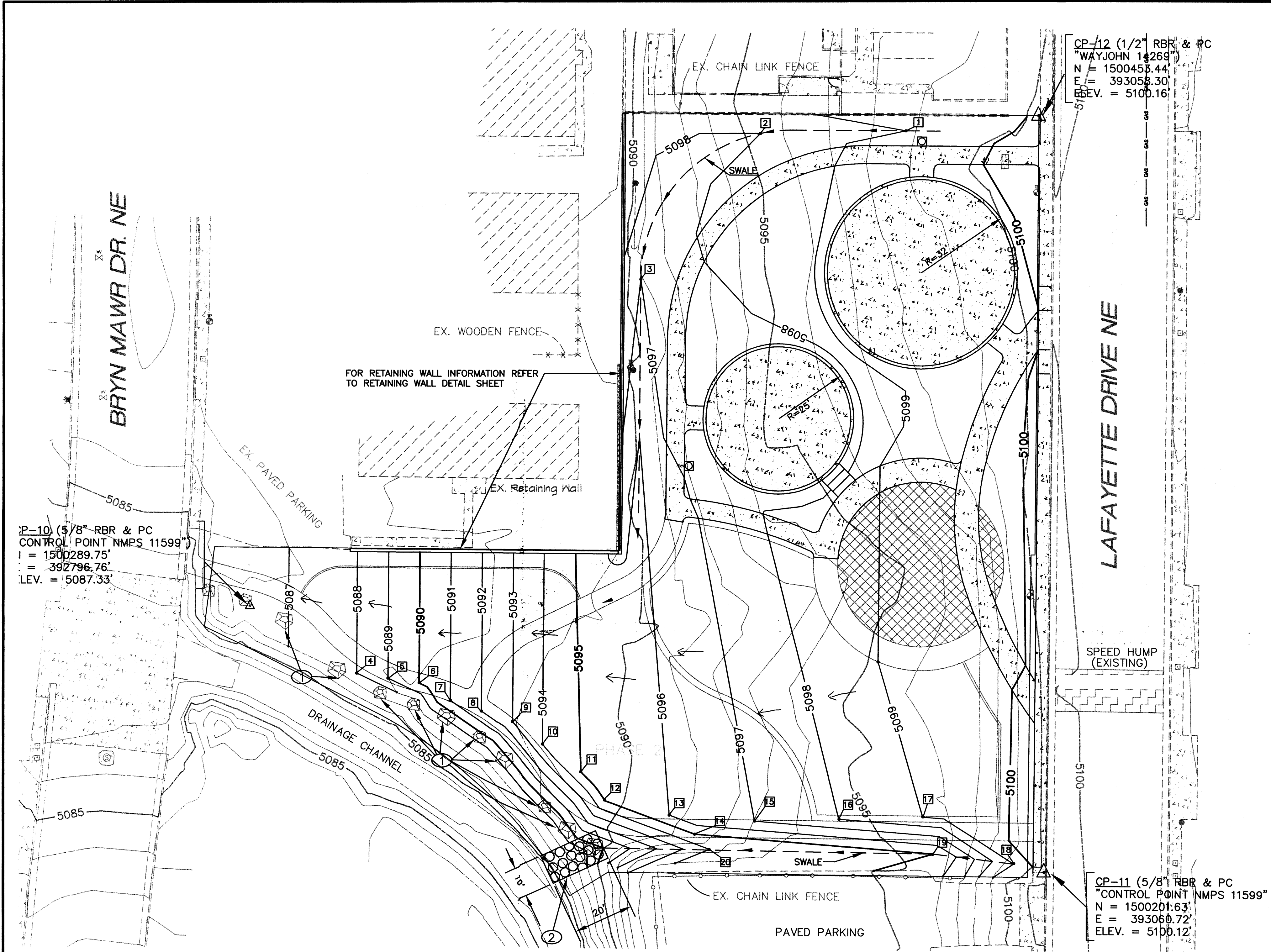


Z:\CIVCAD\101103B\OPTION2\CIVLSITE.DWG

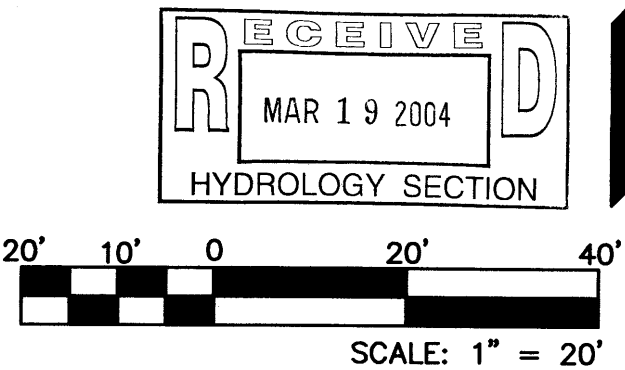


KEYED NOTES:

- CONTRACTOR TO RELOCATE EXISTING BOULDERS TO TOP OF NORTH BANK OF DRAINAGE CHANNEL WHEN GRADING IS COMPLETE.
- CONTRACTOR TO PLACE 6" TO 8" COBBLE (10'X20') 2 FT THICK FOR EROSION CONTROL.

NODE DATA

NODE ID	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1500448.42	393014.26	5099.00	TOP OF GROUND
2	1500447.61	392966.04	5098.00	TOP OF GROUND
3	1500398.90	392926.41	5097.00	TOP OF GROUND
4	1500266.89	392832.07	5088.00	TOP OF GROUND
5	1500265.23	392842.43	5089.00	TOP OF GROUND
6	1500263.58	392852.80	5090.00	TOP OF GROUND
7	1500257.80	392863.14	5091.00	TOP OF GROUND
8	1500254.20	392873.49	5092.00	TOP OF GROUND
9	1500250.61	392883.84	5093.00	TOP OF GROUND
10	1500243.26	392894.18	5094.00	TOP OF GROUND
11	1500234.19	392906.92	5095.00	TOP OF GROUND
12	1500225.43	392814.48	5095.00	TOP OF GROUND
13	1500219.95	392836.30	5096.00	TOP OF GROUND
14	1500213.61	392844.78	5095.00	TOP OF GROUND
15	1500218.09	392864.62	5097.00	TOP OF GROUND
16	1500218.93	392892.54	5098.00	TOP OF GROUND
17	1500219.78	393020.36	5099.00	TOP OF GROUND
18	1500204.34	393050.55	5099.00	TOP OF GROUND
19	1500207.48	393023.84	5095.00	TOP OF GROUND
20	1500208.58	392949.73	5094.00	TOP OF GROUND



 101103B Smith Engineering Company A Full Service Engineering Company 6000 Uptown Boulevard, N.E. Suite 1000 Albuquerque, New Mexico 87110	
CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT PARK AND MEDIAN DESIGN DIVISION	
TITLE: LAFAYETTE PARK - PHASE 1 GRADING PLAN	
Design Review Committee	City Engineer Approval
City Project No. 716491	Zone Map No. G-16
Sheet 8	Of 11

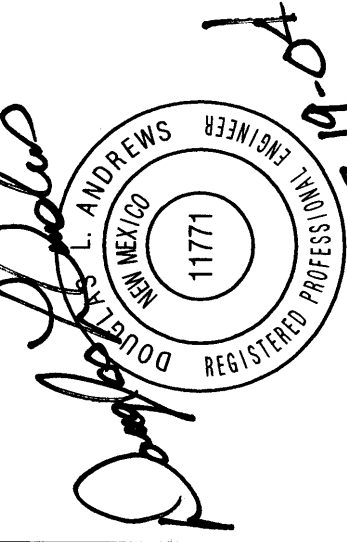
Last Design Update	No. / Day / Yr.	No. / Day / Yr.

DESIGNED BY DLA	DATE 03/04
DRAWN BY MAC	DATE 03/04
CHECKED BY DLA	DATE 03/04

NO.	DATE

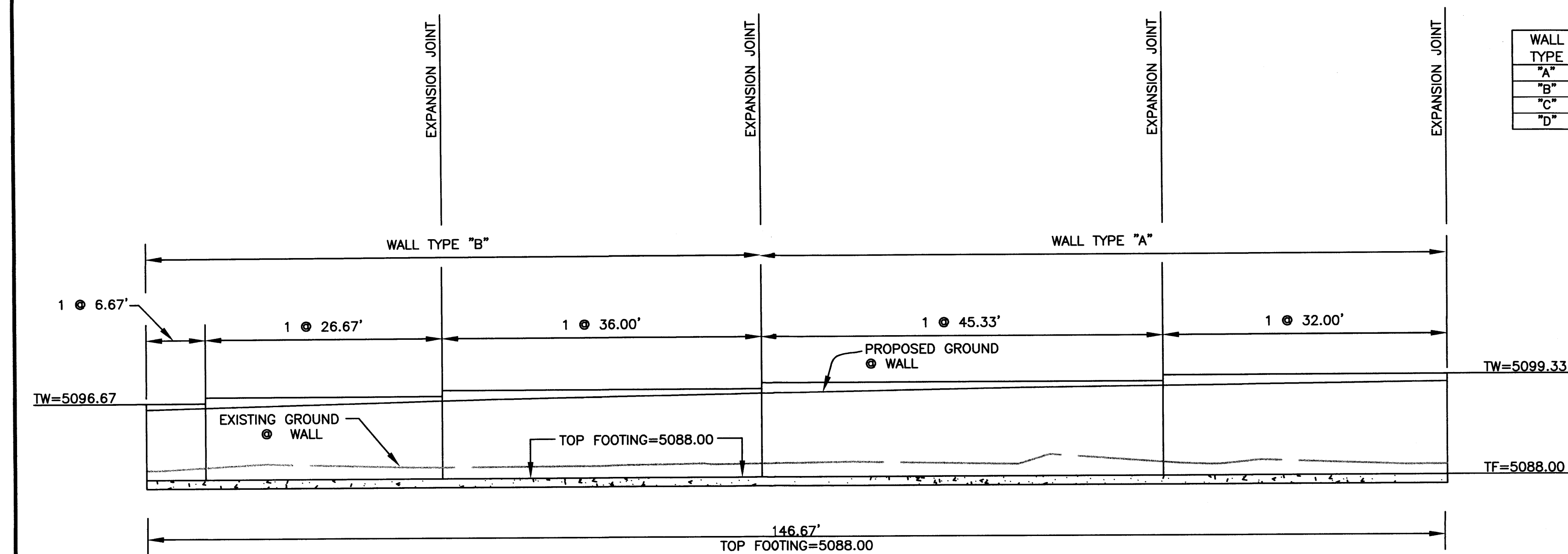
REMARKS	BY
REVISIONS	
DESIGN	

NO.	DATE

ENGINEER'S SEAL	3-10-04
	

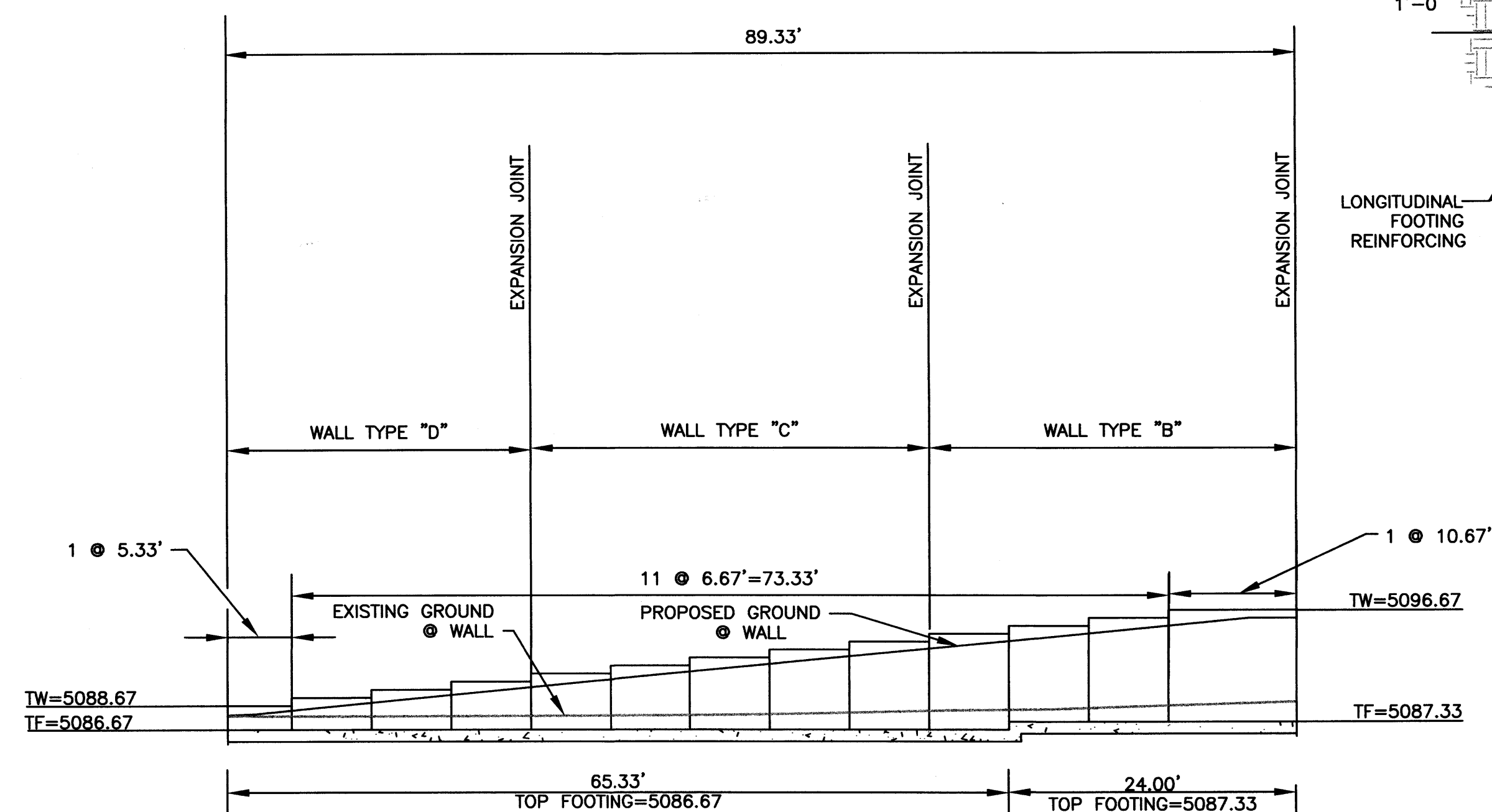
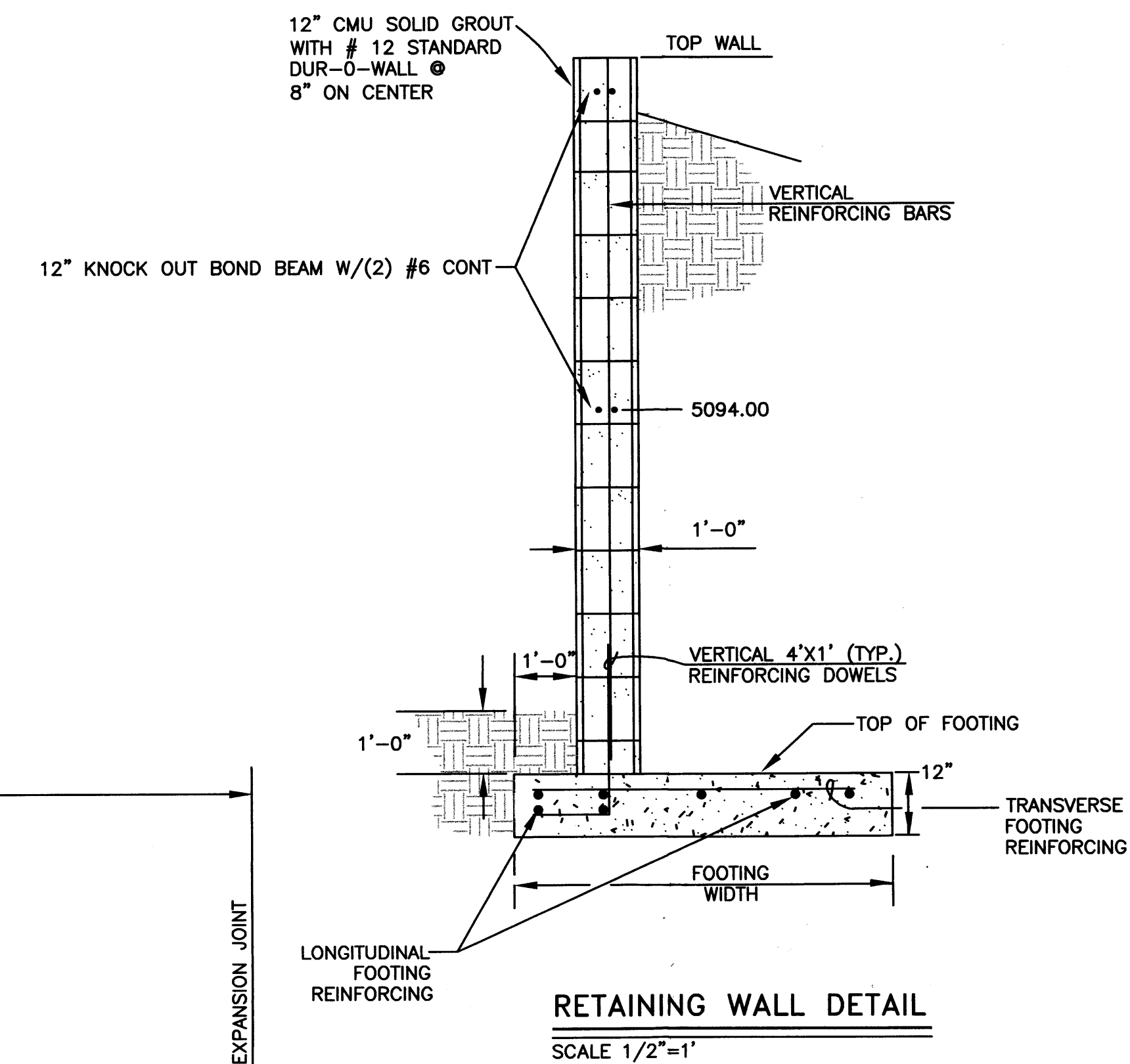
AS BUILT INFORMATION	CONTRACTOR	WORK STARTED BY	DATE
		FIELD SUPERVISOR	DATE
		ACCEPTANCE BY	DATE
		FIELD LOCATION BY	DATE
		DRAWINGS CORRECTED BY	DATE
		MICRO-FILM INFORMATION	
		RECORDED BY	DATE
		NO.	

Z:\CIVADD\101103B\OPTION2 WALLDETAIL.DWG



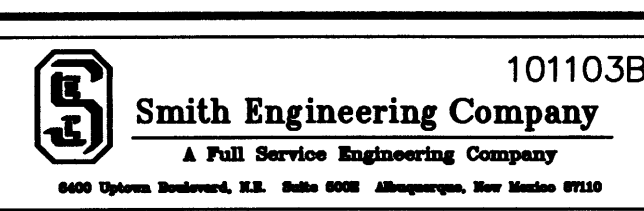
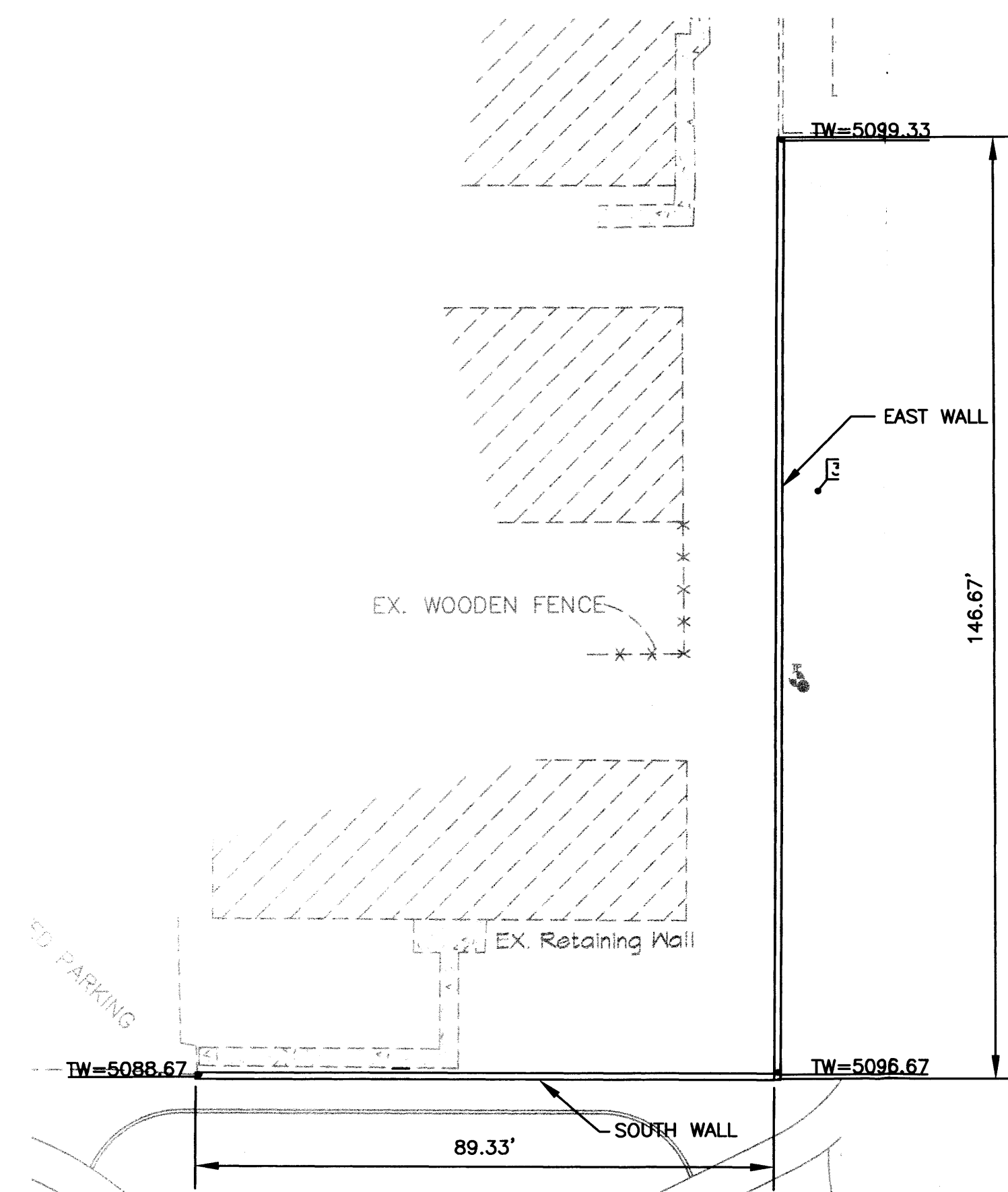
EAST WALL ELEVATION

SCALE 1"=10'
DIMENSIONS ARE TO CENTER OF WALL



SOUTH WALL ELEVATION

SCALE 1"=10'
DIMENSIONS ARE TO CENTER OF WALL



CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT PARK AND MEDIAN DESIGN DIVISION	
TITLE: LAFAYETTE PARK - PHASE 1 RETAINING WALL DETAIL SHEET	
Design Review Committee	City Engineer Approval
City Project No. 716491	Zone Map No. G-16
Sheet 9	Of 11

AS BUILT INFORMATION	
CONTRACTOR	DATE
WORKED BY	DATE
INSPECTED BY	DATE
ACCEPTED BY	DATE
VERIFIED BY	DATE
DESIGNED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

SURVEY INFORMATION	
FIELD NOTES	DATE
NO.	

ENGINEERS SEAL	
NO.	DATE
REVISIONS	DATE
DESIGN	DATE
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE

CC: Ed
Adams
for
OAO
for
Adams

CP-10 (5/8" RBR & PC
"CONTROL POINT NMPS 11599")
N = 1500289.75'
E = 392796.76'
ELEV. = 5087.33'

CP-12 (1/2" RBR & PC
"WAYJOHN 14269")
N = 1500453.44'
E = 393058.30'
ELEV. = 5100.16'

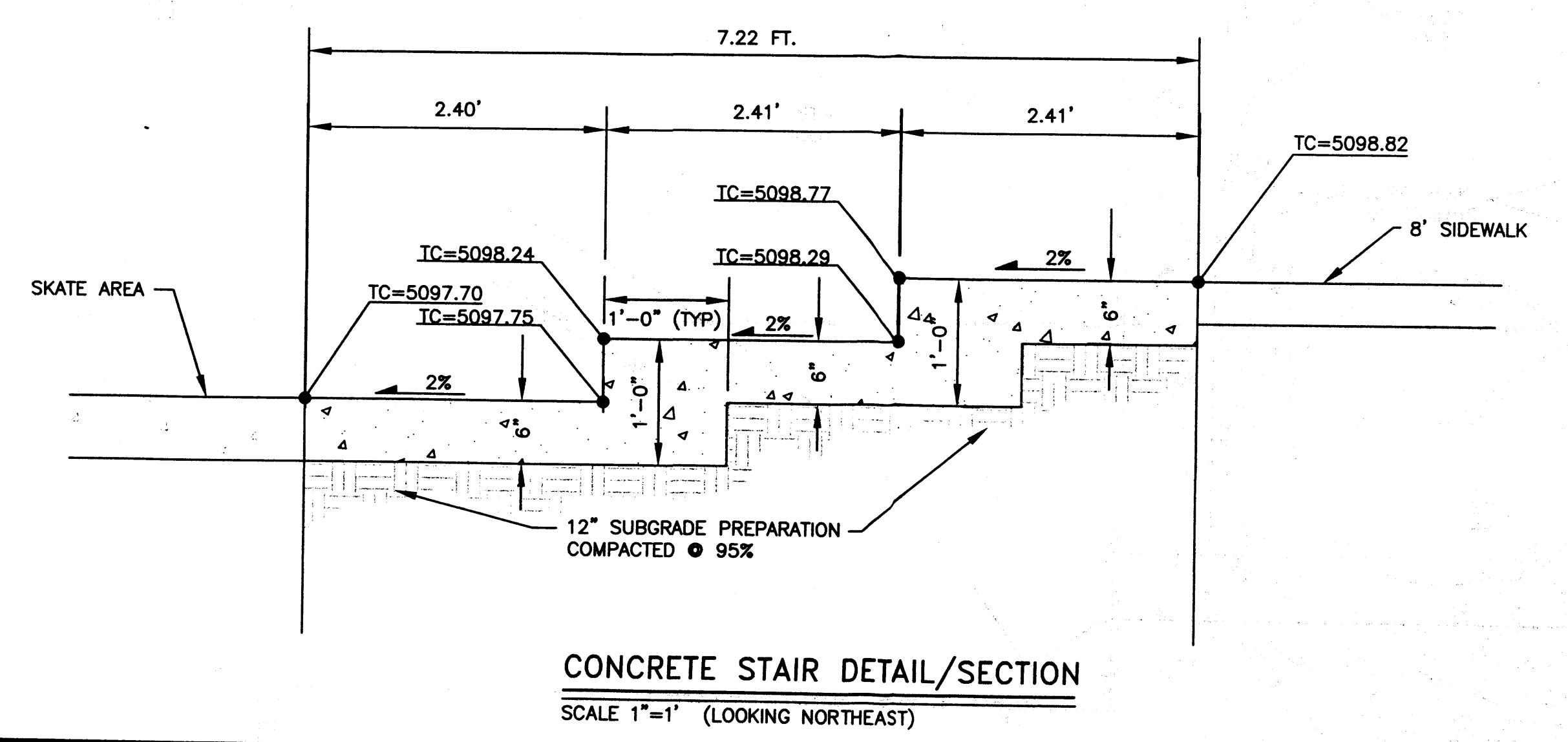
CP-11 (5/8" RBR & F
"CONTROL POINT NMPS")
N = 1500201.63'
E = 393060.72'
ELEV. = 5100.12'

CURVE DATA				
NO.	DELTA	RADIUS	LEN.	TAN.
1	32°14'11"	71.85	40.43	20.76
2	110°55'53"	27.54	53.31	40.01
3	19°10'04"	125.16	41.87	21.13
4	04°02'07"	28.00	1.97	0.99
5	89°58'48"	59.00	92.66	58.98
6	20°51'19"	110.35	40.16	20.31
7	14°12'36"	153.90	38.17	19.18

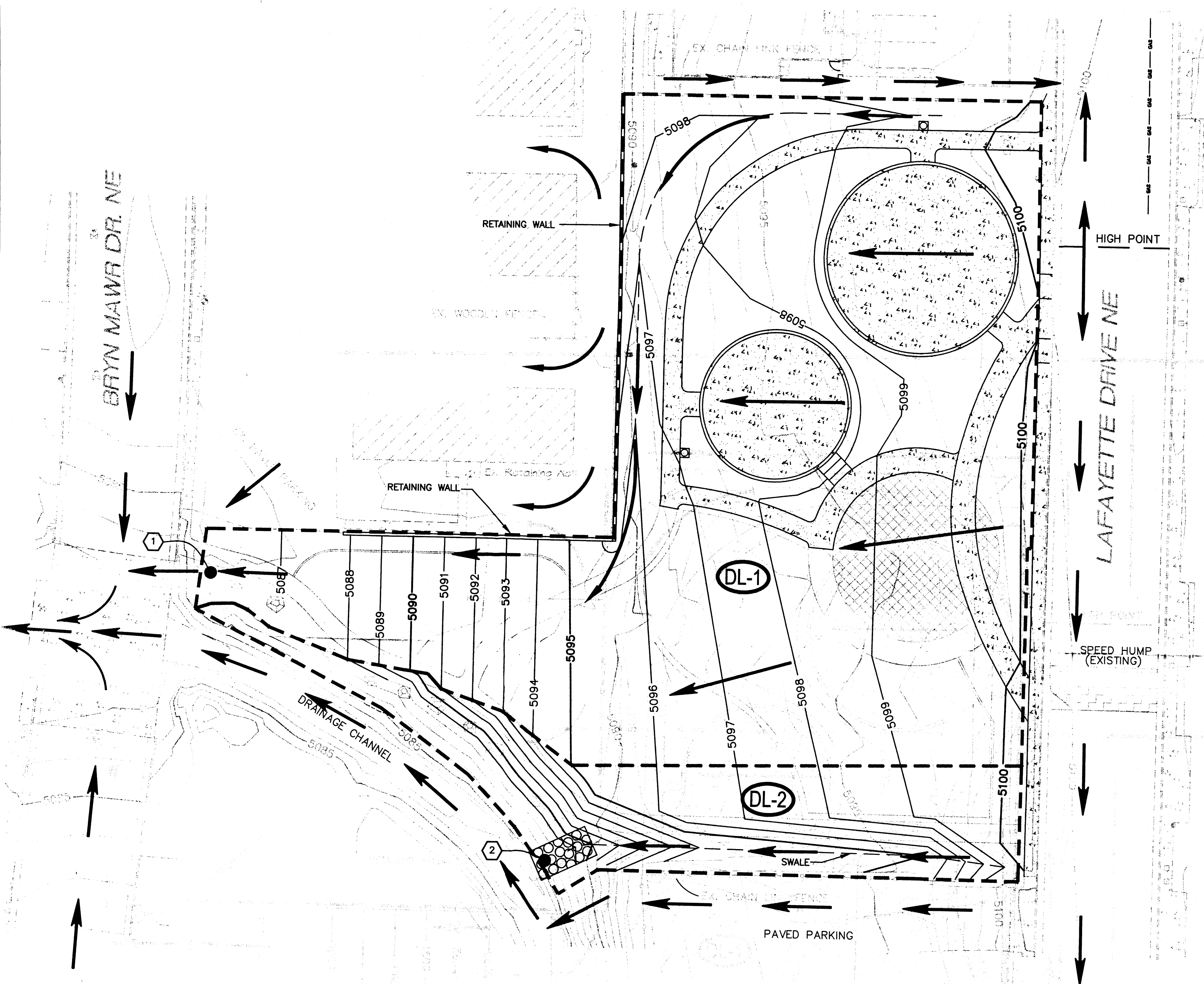
NODE DATA				
NODE ID	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1500445.11	393058.71	5100.54	TOP EDGE OF SIDEWALK
3	1500435.11	393058.64	5100.61	TOP EDGE OF SIDEWALK
5	1500443.34	393025.58	5099.41	TOP EDGE OF SIDEWALK
6	1500437.34	393025.53	5099.53	TOP EDGE OF SIDEWALK
8	1500432.88	393023.50	5099.51	TOP EDGE OF SIDEWALK
9	1500432.93	393015.50	5099.43	TOP EDGE OF SIDEWALK
11	1500437.43	393013.53	5099.41	TOP EDGE OF SIDEWALK
12	1500443.43	393013.58	5099.29	TOP EDGE OF SIDEWALK
13	1500443.52	393000.72	5099.06	TOP EDGE OF SIDEWALK (PC)
14	1500437.52	393000.68	5099.18	TOP EDGE OF SIDEWALK (PC)
15	1500378.97	392941.26	5097.52	TOP EDGE OF SIDEWALK (PT)
16	1500379.01	392935.26	5097.40	TOP EDGE OF SIDEWALK (PT)
17	1500358.75	392941.10	5097.16	TOP EDGE OF SIDEWALK
18	1500358.80	392935.10	5097.04	TOP EDGE OF SIDEWALK
20	1500356.71	392947.41	5097.28	TOP EDGE OF SIDEWALK
21	1500348.71	392947.35	5097.28	TOP EDGE OF SIDEWALK
23	1500346.75	392941.01	5097.16	TOP EDGE OF SIDEWALK
24	1500346.80	392935.01	5097.04	TOP EDGE OF SIDEWALK
25	1500321.11	392934.82	5096.74	TOP EDGE OF SIDEWALK (PC)
26	1500319.16	392934.56	5096.71	TOP EDGE OF SIDEWALK (PT)
27	1500318.15	392940.47	5096.83	TOP EDGE OF SIDEWALK
28	1500319.80	392942.65	5096.87	TOP EDGE OF SIDEWALK
29	1500325.84	392942.65	5096.99	TOP EDGE OF SIDEWALK
30	1500327.84	392940.85	5096.94	TOP EDGE OF SIDEWALK
31	1500314.97	392983.26	5098.61	TOP EDGE OF SIDEWALK
32	1500316.11	392985.96	5098.65	TOP EDGE OF SIDEWALK
33	1500308.58	392982.79	5098.59	TOP EDGE OF SIDEWALK
34	1500306.62	392983.93	5098.63	TOP EDGE OF SIDEWALK
35	1500306.04	392991.91	5098.79	TOP EDGE OF SIDEWALK (PC)
36	1500388.71	393058.33	5100.01	TOP EDGE OF SIDEWALK
37	1500381.71	393052.76	5099.88	TOP EDGE OF SIDEWALK
39	1500384.19	393046.40	5100.42	TOP EDGE OF SIDEWALK
40	1500377.99	393041.35	5100.37	TOP EDGE OF SIDEWALK
42	1500371.82	393046.22	5099.71	TOP EDGE OF SIDEWALK
43	1500375.63	393058.24	5100.02	TOP EDGE OF SIDEWALK
44	1500339.44	393041.32	5099.32	TOP EDGE OF SIDEWALK (PCC)
45	1500341.46	393033.58	5099.24	TOP EDGE OF SIDEWALK (PCC)
47	1500328.95	393031.07	5099.26	TOP EDGE OF SIDEWALK (PT)
48	1500328.01	393039.02	5100.36	TOP EDGE OF SIDEWALK
49	1500265.05	393057.47	5100.34	TOP EDGE OF SIDEWALK
50	1500250.99	393057.37	5099.27	TOP EDGE OF SIDEWALK
51	1500377.52	392972.24	5097.53	TOP EDGE OF CONCRETE
52	1500352.34	392997.06	5097.78	TOP EDGE OF CONCRETE
53	1500327.52	392971.88	5097.53	TOP EDGE OF CONCRETE
54	1500401.16	392987.27	5099.15	TOP EDGE OF CONCRETE
55	1500369.16	393019.04	5199.47	TOP EDGE OF CONCRETE
56	1500400.93	393051.27	5199.79	TOP EDGE OF CONCRETE
57	1500339.22	393033.04	5099.20	TOP EDGE OF SIDEWALK
58	1500284.22	393038.52	5099.26	TOP EDGE OF SIDEWALK (PCC)
59	1500287.32	393045.89	5099.34	TOP EDGE OF SIDEWALK
60	1500276.58	393041.96	5099.29	TOP EDGE OF SIDEWALK (PT)
61	1500280.06	393049.17	5099.37	TOP EDGE OF SIDEWALK
62	1500352.52	392972.06	5097.53	TOP OF CONCRETE(RADIUS PT)
63	1500401.16	393019.27	5099.47	TOP OF CONCRETE(RADIUS PT)
64	1500420.55	392958.84	5098.35	TOP EDGE OF SIDEWALK
65	1500424.82	392954.63	5098.23	TOP EDGE OF SIDEWALK
66	1500313.39	392993.48	5098.81	TOP EDGE OF SIDEWALK
67	1500331.55	393019.57	5099.07	TOP EDGE OF SIDEWALK
68	1500339.55	393019.63	5099.07	TOP EDGE OF SIDEWALK
69	1500297.32	393033.67	5099.21	TOP EDGE OF SIDEWALK (PCC)
70	1500299.55	393041.36	5099.29	TOP EDGE OF SIDEWALK (PCC)
71	1500332.13	392986.51	5097.67	TOP EDGE OF CONCRETE
72	1500337.74	392992.21	5097.73	TOP EDGE OF CONCRETE
73	1500332.18	392997.68	5098.85	TOP EDGE OF SIDEWALK
74	1500326.62	392991.93	5098.79	TOP EDGE OF SIDEWALK
75	1500334.70	392989.59	5097.70	TOP EDGE OF CONCRETE
76	1500329.55	392994.66	5098.82	TOP EDGE OF CONCRETE

- KEYED NOTES:
- 1 BUILD 4" SIDEWALK PER COA STD. DWG. 2430
 - 2 BUILD 6" SIDEWALK PER COA STD. DWG. 2430
 - 3 BUILD 8" SIDEWALK PER COA STD. DWG. 2430
 - 4 EXISTING STANDARD CURB & GUTTER TO REMAIN.
 - 5 BUILD CONCRETE STAIRS PER DETAIL THIS SHEET.
 - 6 RETAINING WALL-SEE SHEET 9 FOR WALL INFORMATION.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN		DATE		DATE		DATE	
CONTRACTOR		NO.		NO.		NO.		NO.		NO.		NO.		NO.		NO.	
DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE	
INSPECTED BY		INSPECTED BY		INSPECTED BY		INSPECTED BY		INSPECTED BY		INSPECTED BY		INSPECTED BY		INSPECTED BY		INSPECTED BY	
ACCEPTANCE BY		ACCEPTANCE BY		ACCEPTANCE BY		ACCEPTANCE BY		ACCEPTANCE BY		ACCEPTANCE BY		ACCEPTANCE BY		ACCEPTANCE BY		ACCEPTANCE BY	
VERIFICATION BY		VERIFICATION BY		VERIFICATION BY		VERIFICATION BY		VERIFICATION BY		VERIFICATION BY		VERIFICATION BY		VERIFICATION BY		VERIFICATION BY	
DRAWN BY		DRAWN BY		DRAWN BY		DRAWN BY		DRAWN BY		DRAWN BY		DRAWN BY		DRAWN BY		DRAWN BY	
RECORDED BY		RECORDED BY		RECORDED BY		RECORDED BY		RECORDED BY		RECORDED BY		RECORDED BY		RECORDED BY		RECORDED BY	
NO.		NO.		NO.		NO.		NO.		NO.		NO.		NO.		NO.	



City Project No. 716491		Zone Map No. G-16		Sheet 7		Of 11	
Design Review Committee		City Engineer Approval		Last Design Update		Mo. / Day / Yr.	



NOTE:
 HYDROLOGY CRITERIA: CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT DEVELOPMENT PROCESS MANUAL CHAPTER 22, SECTION 2, LAFAYETTE PARK RESIDES IN PRECIPITATION ZONE 2.

HYDROLOGY CALCULATIONS

BASIN DL-1
 $Q_{10} = [0.84 \text{ Ac.} \times 0.38 \text{ cfs/Ac} \times 0.38] + [0.84 \text{ Ac.} \times 1.71 \text{ cfs/Ac} \times 0.38] + [0.84 \text{ Ac.} \times 3.14 \text{ cfs/Ac} \times 0.24] = 1.3 \text{ CFS}$
 $Q_{100} = [0.84 \text{ Ac.} \times 0.38 \text{ cfs/Ac} \times 0.38] + [0.84 \text{ Ac.} \times 1.71 \text{ cfs/Ac} \times 0.38] + [0.84 \text{ Ac.} \times 4.70 \text{ cfs/Ac} \times 0.24] = 2.5 \text{ CFS}$

BASIN DL-2
 $Q_{10} = [0.17 \text{ Ac.} \times 0.38 \text{ cfs/Ac} \times 0.50] + [0.17 \text{ Ac.} \times 1.71 \text{ cfs/Ac} \times 0.50] = 0.2 \text{ CFS}$
 $Q_{100} = [0.17 \text{ Ac.} \times 1.56 \text{ cfs/Ac} \times 0.50] + [0.17 \text{ Ac.} \times 3.14 \text{ cfs/Ac} \times 0.50] = 0.4 \text{ CFS}$

INDIVIDUAL BASIN HYDROLOGY TABLE

CONTRIBUTING DRAINAGE BASIN	AREA (Ac.)	Tc (Min.)	Tp (Min.)	LAND TREATMENT (%)				10 YEAR PEAK FLOW 6 HR. (CFS)	100 YEAR PEAK FLOW 6 HR. (CFS)
				A	B	C	D		
DL-1	0.84	12	8	38	0	38	24	1.3	2.5
DL-2	0.17	12	8	50	0	50	0	0.2	0.4

2.9 cfs

ANALYSIS POINT TABLE

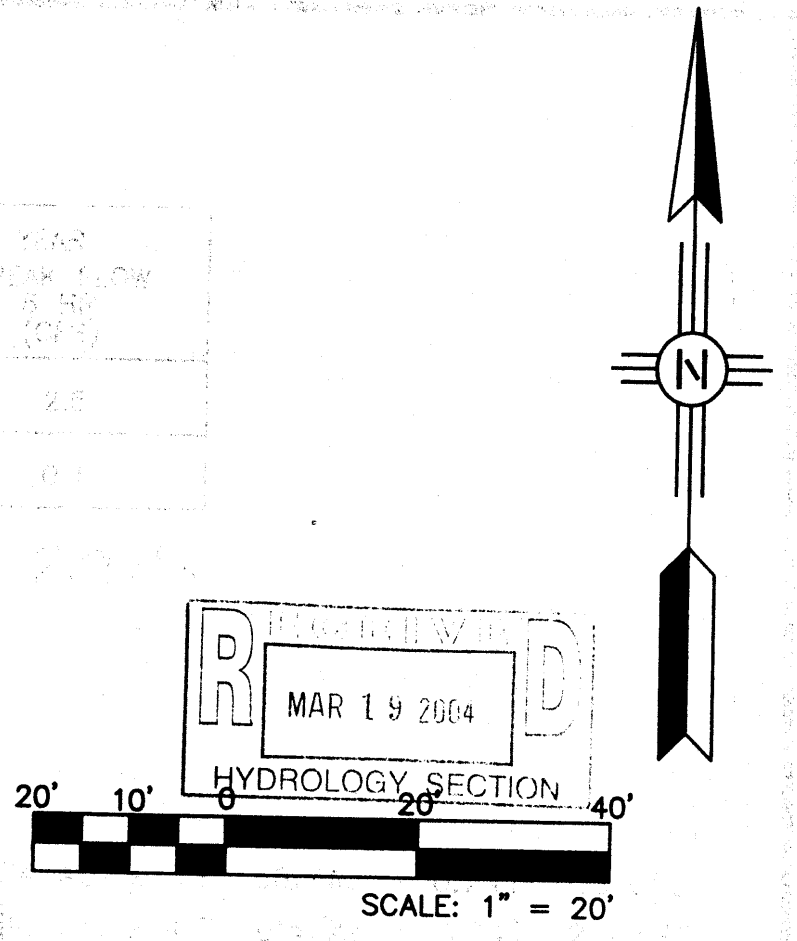
ANALYSIS POINT	CONTRIBUTING DRAINAGE BASINS	Q 10 (CFS)	Q 100 (CFS)
1	DL-1	1.3	2.5
2	DL-2	0.2	0.4

INDIVIDUAL BASIN HYDROLOGY TABLE

CONTRIBUTING DRAINAGE BASIN	AREA (Ac.)	Tc (Min.)	Tp (Min.)	LAND TREATMENT (%)				10 YEAR PEAK FLOW 6 HR. (CFS)	100 YEAR PEAK FLOW 6 HR. (CFS)
				A	B	C	D		
DL-1	0.84	12	8	38	0	38	24	1.3	2.5
DL-2	0.17	12	8	50	0	50	0	0.2	0.4

LEGEND

← FLOW ARROW
 — BASIN BOUNDARY



Douglas L. Andrews
 DOUGLAS L. ANDREWS
 NEW MEXICO
 11771
 REGISTERED PROFESSIONAL ENGINEER
 3-19-04

Smith Engineering Company
 A Full Service Engineering Company
 6400 Uptown Boulevard, N.E. Suite 600B Albuquerque, New Mexico 87110

LAFAYETTE PARK-PHASE 1

CITY OF ALBUQUERQUE
 DEPARTMENT OF MUNICIPAL DEVELOPMENT
 PARK AND MEDIAN DESIGN DIVISION

PROPOSED DRAINAGE MAP

PROJECT NUMBER: 101103B	DRAWN BY: MAC	DESIGNED BY: DLA	DATE: 03/04	MAP NO: G-16
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NOTE:
HYDROLOGY CRITERIA: CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT DEVELOPMENT PROCESS MANUAL CHAPTER 22, SECTION 2, LAFAYETTE PARK RESIDES IN PRECIPITATION ZONE 2.

HYDROLOGY CALCULATIONS

BASIN EL-1

$$Q_{10} = [0.10 \text{ Ac.} \times 0.38 \text{ cfs/Ac} \times 0.50] + [0.10 \text{ Ac.} \times 1.71 \text{ cfs/Ac} \times 0.50] = 0.1 \text{ CFS}$$

$$Q_{100} = [0.10 \text{ Ac.} \times 1.56 \text{ cfs/Ac} \times 0.50] + [0.10 \text{ Ac.} \times 3.14 \text{ cfs/Ac} \times 0.50] = 0.2 \text{ CFS}$$

BASIN EL-2

$$Q_{10} = [0.10 \text{ Ac.} \times 0.38 \text{ cfs/Ac} \times 0.50] + [0.10 \text{ Ac.} \times 1.71 \text{ cfs/Ac} \times 0.50] = 0.1 \text{ CFS}$$

$$Q_{100} = [0.10 \text{ Ac.} \times 1.56 \text{ cfs/Ac} \times 0.50] + [0.10 \text{ Ac.} \times 3.14 \text{ cfs/Ac} \times 0.50] = 0.2 \text{ CFS}$$

BASIN EL-3

$$Q_{10} = [0.12 \text{ Ac.} \times 0.38 \text{ cfs/Ac} \times 0.50] + [0.12 \text{ Ac.} \times 1.71 \text{ cfs/Ac} \times 0.50] = 0.1 \text{ CFS}$$

$$Q_{100} = [0.12 \text{ Ac.} \times 1.56 \text{ cfs/Ac} \times 0.50] + [0.12 \text{ Ac.} \times 3.14 \text{ cfs/Ac} \times 0.50] = 0.3 \text{ CFS}$$

BASIN EL-4

$$Q_{10} = [0.42 \text{ Ac.} \times 0.38 \text{ cfs/Ac} \times 0.50] + [0.42 \text{ Ac.} \times 1.71 \text{ cfs/Ac} \times 0.50] = 0.4 \text{ CFS}$$

$$Q_{100} = [0.42 \text{ Ac.} \times 1.56 \text{ cfs/Ac} \times 0.50] + [0.42 \text{ Ac.} \times 3.14 \text{ cfs/Ac} \times 0.50] = 1.0 \text{ CFS}$$

BASIN EL-5

$$Q_{10} = [0.27 \text{ Ac.} \times 0.38 \text{ cfs/Ac} \times 0.50] + [0.27 \text{ Ac.} \times 1.71 \text{ cfs/Ac} \times 0.50] = 0.3 \text{ CFS}$$

$$Q_{100} = [0.27 \text{ Ac.} \times 1.56 \text{ cfs/Ac} \times 0.50] + [0.27 \text{ Ac.} \times 3.14 \text{ cfs/Ac} \times 0.50] = 0.6 \text{ CFS}$$

BASIN O-1

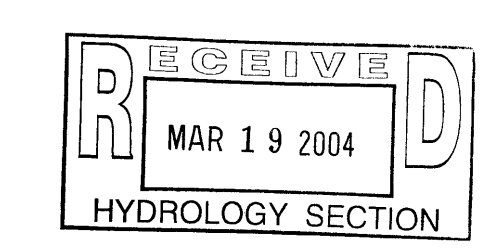
$$Q_{10} = [0.08 \text{ Ac.} \times 1.71 \text{ cfs/Ac} \times 0.67] + [0.08 \text{ Ac.} \times 3.14 \text{ cfs/Ac} \times 0.33] = 0.2 \text{ CFS}$$

$$Q_{100} = [0.08 \text{ Ac.} \times 3.14 \text{ cfs/Ac} \times 0.67] + [0.08 \text{ Ac.} \times 4.70 \text{ cfs/Ac} \times 0.33] = 0.3 \text{ CFS}$$

INDIVIDUAL BASIN HYDROLOGY TABLE

CONTRIBUTING DRAINAGE BASIN	AREA (Ac.)	Tc (Min.)	Tp (Min.)	LAND TREATMENT (%)				10 YEAR PEAK FLOW 6 HR (CFS)	100 YEAR PEAK FLOW 6 HR (CFS)
				A	B	C	D		
EL-1	0.10	12	8	50		50		0.1	0.2
EL-2	0.10	12	8	50		50		0.1	0.2
EL-3	0.12	12	8	50		50		0.1	0.3
EL-4	0.42	12	8	50		50		0.4	1.0
EL-5	0.27	12	8	50		50		0.3	0.6
O-1	0.09	12	8			67	33	0.2	0.3

→ 2.3



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LAFAYETTE PARK-PHASE 1

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
HYDROLOGY DEVELOPMENT GROUP

EXISTING DRAINAGE MAP

PROJECT NUMBER: 101103B DRAWN BY: DAS DESIGNED BY: DLA DATE: 04/03 MAP NO: G-16

Douglas L. Andrews
DOUGLAS L. ANDREWS
NEW MEXICO
11771
REGISTERED PROFESSIONAL ENGINEER
3-19-04

ANALYSIS POINT TABLE

ANALYSIS POINT	CONTRIBUTING DRAINAGE BASINS	Q 10 (CFS)	Q 100 (CFS)
①	EL-1	0.1	0.2
②	EL-2	0.1	0.2
③	EL-3	0.1	0.3
④	EL-3 & O-1	0.3	0.6
⑤	EL-3, O-1 & EL-4	0.7	1.6
⑥	EL-5	0.3	0.6

LEGEND

← FLOW ARROW
--- BASIN BOUNDARY

