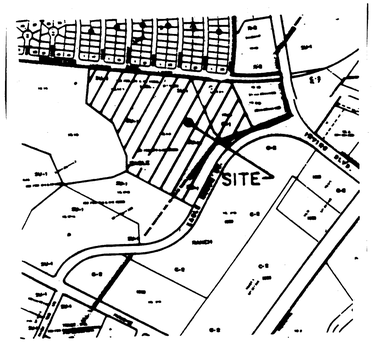
CONSTRUCTION PLANS

FOR

CACTUS HILLS SUBDIVISION

ALBUQUERQUE, NEW MEXICO



VICINITY MAP — ZONE ATLAS C-13
SCALE: NONE

GENERAL NOTES

NOTICE TO CONTRACTORS

1. CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THROUGH UPDATE 4, WILL BE REFERRED TO HEREIN AS THE "STANDARD SPECIFICATIONS".
2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) AND DETERMINE LOCATION OF EXISTING UTILITIES.
3. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR THE SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITHOUT DELAY.
4. THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION CO-ORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION CO-ORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED BY THIS SET.
5. ALL EXISTING SIGNS, MARKERS, DELINEATORS ETC. WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.
6. WATER AND SEWER FACILITIES SHALL BE CONSTRUCTED PER N.M.U.I.'S SPECIFICATIONS, INSPECTION AND APPROVAL.
7. THE CONTRACTOR SHALL COORDINATE UTILITIES CONSTRUCTION WITH N.M.U.I.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- [x] ALL UTILITIES AND UTLITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- [x] BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- [ ] TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- [x] SIDEWALK AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- [ ] IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- [x] ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- [ ] THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDE-WALK DAMAGE AFTER APPROVAL BY THE CITY ENGINEER OR WORK COMPLETED BY THE CONTRACTOR.

NOTES:

1. **AS BUILT INFORMATION AS PER ALBUQUERQUE SURVEYING COMPANY, INC.**
2. **COORDINATES SHOWN ARE GROUND COORDINATES BASED ON NEW MEXICO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE. USE GROUND TO GRID FACTOR 0.99967846 TO OBTAIN GRID COORDINATES.**

PROFESSIONAL SURVEYOR — STATE OF NEW MEXICO — NO. 10464 — VLADIMIR JIRIK

VLADIMIR JIRIK, N.M.P.S. # 10464 — DATE 5/13/94

LEGEND

═══	NEW CURB & GUTTER
—— 6" W ——	WATERLINE
—— 8" S ——	SANITARY SEWER
— - — — - —	PROPERTY LINE
-69-	CONTOUR
⋈	WATER VALVE
□ WM	WATER METER
○ SASMH	SANITARY SEWER MANHOLE
○ SSMH	STORM SEWER MANHOLE
FF=	FINISHED FLOOR

INDEX TO DRAWINGS

SHEET NO.	TITLE
1	TITLE SHEET
2-3	PLAT
4-5	GRADING PLAN
6	MASTER PAVING PLAN
7-12	PAVING PLAN & PROFILES
13	MASTER UTILITY PLAN
14-19	UTILITY PLAN & PROFILES
20-21	STORM SEWER PLAN & PROFILE
22	TYPICAL SECTIONS & DETAILS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	6		4	7	2	0	.	9	0	0	1	9	4	

APPROVAL OF AS BUILT DRAWINGS — CHIEF CONSTRUCTION ENGINEER — DATE 5/20/94

Tierra West Development Management Services

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P. O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE

APPROVAL OF REVISIONS

D. MARK GOODWIN — NEW MEXICO — 8948 — REGISTERED PROFESSIONAL ENGINEER — 11/23/93

PROJECT NO.
4720.90

APPROVED FOR CONSTRUCTION
9/22/93

SHEET 1 OF 22

SCANNED BY BY LASON

CHS\TITLE

PLAT OF CACTUS HILLS SUBDIVISION

WITHIN SECTIONS 7 & 18
T11N, R3E, NMPM
ALBUQUERQUE, NEW MEXICO
JANUARY 1993

N

100' 50' 0 100' 200'
SCALE: 1" = 100'

○ SET #5 REBAR WITH CAP MARKED "ALS LS7719"

△ CENTERLINE MONUMENTATION

Centerline (in lieu of R/W monumentation) to be installed at all centerline PC's, PT's, angle points, and street intersections prior to acceptance of subdivision street improvements and will consist of a standard four inch (4") aluminum alloy cap stamped:

CITY OF ALBUQUERQUE
CENTERLINE MONUMENTATION
SURVEY MARKER
DO NOT DISTURB
PLS 7719

CACTUS HILLS SUBDIVISION

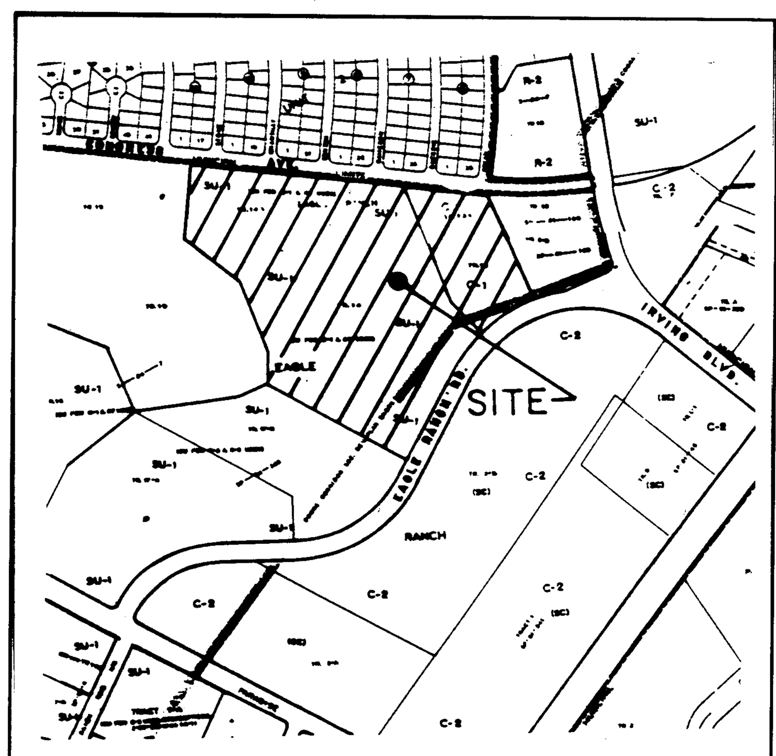
D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

CACTUS\CACTUS2

Designed: BJG	Drawn: BJG	Checked: ALS	Sheet 2 of 4
Scale: 1"=100'	Date: 1/93	Job: 9275	

2 6 4720.900294

SCANNED BY
BY LASON



LOCATION MAP ZONE ATLAS MAP C-13-Z

NOT TO SCALE

SUBDIVISION DATA

PLAT CASE NOS. .... DRB. 92-386, SP.	V.-93-16
GROSS ACREAGE	29.3941
ZONE ATLAS NO.	C-13-Z
NO. OF EXISTING TRACTS/LOTS	2
NO. OF TRACTS/LOTS CREATED	121
NO. OF TRACTS/LOTS ELIMINATED	2
MILES OF FULL WIDTH STREETS CREATED	0.8455
AREA DEDICATED TO CITY OF ALBUQUERQUE	8.5845
DATE OF SURVEY	NOVEMBER 1992
UTILITY CONTROL LOCATION SYSTEM LOG NUMBER:	

APPROVED AND ACCEPTED BY:

NEW MEXICO UTILITIES, INC. — DATE

TRAFFIC ENGINEER, TRANSPORTATION DEPARTMENT — DATE

PARKS AND RECREATION DEPARTMENT — DATE

[signature] 031593
CITY SURVEYOR, ENGINEERING DIVISION — DATE

WATER RESOURCES DEPARTMENT — DATE

PROPERTY MANAGEMENT — DATE

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY — DATE

CITY ENGINEER, ENGINEERING DIVISION — DATE

APPROVAL AND CONDITIONAL ACCEPTANCE as specified by the Albuquerque Subdivision Ordinance, Article XI of Chapter 7 of the Revised Ordinances of Albuquerque, New Mexico.

CITY PLANNER, ALBUQUERQUE/BERNALILLO COUNTY PLANNING DIVISION — DATE

ACCEPTED BY:

[signature] 3-15-93
US WEST COMMUNICATIONS — DATE

PUBLIC SERVICE COMPANY OF NEW MEXICO — DATE

GAS COMPANY OF NEW MEXICO — DATE

Rita Erickson 3-15
JONES INTERCABLE INC. — DATE

SHT 2 of 22

LEGAL DESCRIPTION

A tract of land situate within projected Sections 7 and 18, Township 11 North, Range 3 East, New Mexico Principal Meridian, Town of Alameda Grant, City of Albuquerque, Bernalillo County, New Mexico, being all of TRACTS 13A-1 and 14A-1, EAGLE RANCH, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on December 15, 1987 in Volume C35, Folio 79 and being more particularly described as follows:

BEGINNING at the northeast corner of the herein described tract, said point being common with the northwest corner of TRACT 2-D, EAGLE RANCH as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on June 4, 1981 in Volume C18, Folio 94 and further being on the southerly right-of-way line of Congress Avenue N.W. from whence the Albuquerque Control Survey Monument "4-B13" bears N 01°11'37" W, 783.42 feet;

THENCE leaving said right-of-way line S 22°22'45" E, 482.58 feet to a point, said point being common with the southwest corner of said TRACT 2-D and further being on the westerly right-of way line of Eagle Ranch Road N.W.;

THENCE along said right-of-way line 547.33 feet along a curve to the left whose radius is 750.03 feet through a central angle of 41°48'40" and whose long chord bears S 51°06'45" W, 535.26 feet to a point of tangency;

THENCE continuing along said right-of-way line S 30°12'24" W, 472.98 feet to the southeast corner, said point being common with the northeast corner of TRACT 17-B, EAGLE RANCH as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico on December 19, 1984 in Volume C25, Folio 185;

THENCE leaving said right-of-way line N 59°44'53" W, 775.12 feet to the southwest corner, said point being common with the northwest corner of said TRACT 17-B, and further being on the easterly boundary line of CONGRESS HEIGHTS as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on April 20th, 1988 in Volume C36, Folio 87;

THENCE along said easterly boundary line N 03°17'08" E, 150.10 feet to a point;

THENCE continuing along said easterly boundary line N 19°57'52" W, 360.00 feet to a point;

THENCE continuing along said easterly boundary line N 50°27'49" W, 297.47 feet to a point;

THENCE continuing along said easterly boundary line N 09°27'44" E, 365.00 feet to the northwest corner, said point being common with the northeast corner of said CONGRESS HEIGHTS and further being on the southerly right-of-way line of Congress Avenue N.W.;

THENCE leaving said easterly boundary line along said right-of-way line S 80°32'53" E, 760.21 feet to a point, said point being common with the northwest corner of TRACT 14A-2, EAGLE RANCH as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County on December 15, 1987 in Volume C35, Folio 79;

THENCE leaving said right-of-way line S 09°28'51" W, 239.80 feet to a point, said point being common with the southwest corner of said TRACT 14A-2;

THENCE S 72°45'54" E, 439.92 feet to a point, said point being common with the southeast corner of said TRACT 14A-2;

THENCE N 18°47'20" W, 339.83 feet to a point, said point being common with the northeast corner of said TRACT 14A-2 and further being on the southerly right-of-way line of Congress Avenue N.W.;

THENCE along said right-of-way line S 80°32'53" E, 408.60 feet to the point of beginning and containing 29.3941 acres more or less.

PNM EASEMENT RELEASE APPROVAL

Public Service Company of New Mexico does hereby release waive, quitclaim and discharge its right , title and interest in the easements (granted by prior plat, replat or document) shown to be vacated on this plat.

PUBLIC SERVICE COMPANY OF NEW MEXICO

By ______________________

STATE OF NEW MEXICO } ss
COUNTY OF BERNALILLO }

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THIS

_____ DAY OF__________, 19___ BY ______________

of the Public Service Company of New Mexico, a New Mexico Corporation, on behalf of said corporation.

NOTARY PUBLIC — MY COMMISSION EXPIRES

US WEST COMMUNICATIONS QUITCLAIM

KNOW ALL MEN BY THESE PRESENTS: that US WEST COMMUNICATIONS, INC. a Colorado Corporation, hereinafter called "Company" for and in consideration of One Dollar ($1.00) and other good and valuable considerations in hand paid, the receipt whereof is hereby confessed and acknowledged, does hereby release, remise and quitclaim all the right, title and interest in the easements shown to be vacated on this plat and hereby expressly excepting and reserving to the Company, any and all interest otherwise acquired in said property, except as shown to be vacated.

IN WITNESS WHEREOF, The Company has caused these presents to be executed by its duly authorized officer this

15th DAY OF March, 1993 BY Anthony J. Padilla

US WEST COMMUNICATIONS, INC.

By [signature]
Manager — Network and Technology Services

STATE OF NEW MEXICO } ss
COUNTY OF BERNALILLO }

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THIS

15th DAY OF March, 1993 BY Anthony J. Padilla

as the Manager/Network and Technology Services of US WEST COMMUNICATIONS, INC., a Colorado Corporation on behalf of the corporation.

[signature] 6-22-93
NOTARY PUBLIC — MY COMMISSION EXPIRES

NOTES

1. THE PURPOSE OF THIS PLAT IS TO REPLAT TRACTS 13A-1 AND 14A-1 INTO CACTUS HILLS SUBDIVISION, COMPRISED OF 119 RESIDENTIAL LOTS AND 2 TRACTS, AND TO VACATE THE TEMPORARY DRAINAGE, DIVERSION DITCH AND DIKE EASEMENTS AND 10' P.U.E. NOW RUNNING THROUGH THE PROPERTY, AS SHOWN ON SHEET 4.
2. BASIS OF BEARINGS IS FROM ACS NM448-N11 AND ITS AZIMUTH MARK.
3. PLAT SHOWS ALL EASEMENTS OF RECORD.
4. ALL BEARINGS ARE GRID. ALL DISTANCES ARE GROUND.
5. THESE TRACTS ARE WITHIN THE NEW MEXICO UTILITIES, INC. (NMU, INC.) FRANCHISE AREA. WATER AND SANITARY SEWER SYSTEM CAPABILITIES ARE BASED ON NMU, INC.'S FACILITIES, NOT THE CITY OF ALBUQUERQUE'S. WATER AND SANITARY SEWER INFRASTRUCTURE IMPROVEMENTS MUST, HOWEVER, BE APPROVED BY BOTH THE CITY OF ALBUQUERQUE AND NMU, INC.
6. **ALL OF THE RT ZONE REQUIREMENTS SHALL APPLY WITHOUT EXCEPTION. REQUIRED SETBACKS SHALL INCLUDE: FRONT 15',(20' TO GARAGES) SIDE 5', TYP. (0' REQUIRED) BACK 15' MIN.**

PLAT OF CACTUS HILLS SUBDIVISION

WITHIN SECTIONS 7 & 18
T11N, R3E, NMPM
ALBUQUERQUE, NEW MEXICO
JANUARY 1993

FREE CONSENT AND DEDICATION

THE SUBDIVISION OF THE LAND HEREIN DESCRIBED IS WITH THE FREE CONSENT AND IN ACCORDANCE WITH THE WISHES AND DESIRES OF THE UNDERSIGNED OWNER(S) AND PROPRIETOR(S) THEREOF, AND SAID OWNER(S) AND PROPRIETOR(S) DO HEREBY DEDICATE THE STREET, DRAINAGE RIGHT-OF-WAY, AND PARK AREA TO THE CITY OF ALBUQUERQUE, IN FEE SIMPLE AND GRANT THE EASMENTS AS SHOWN ON THIS PLAT ALONG WITH THE RIGHT OF INGRESS AND EGRESS AND THE RIGHT TO TRIM INTERFERRING TREES.

SANDIA JOINT VENTURE, A NEW MEXICO GENERAL PARTNERSHIP

[signature]
ROBERT M. MURPHY, PRESIDENT
SANDIA PEAK TRAM **COMPANY, A** PARTNER FOR SANDIA JOINT VENTURE

OWNER'S ACKNOWLEDGMENT

STATE OF NEW MEXICO } ss
COUNTY OF BERNALILLO }

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THIS

9th DAY OF March, 1993.

[signature] 11-11-96
NOTARY PUBLIC — MY COMMISSION EXPIRES

SURVEYOR'S CERTIFICATION

"I, Timothy Aldrich, a duly qualified Registered Professional Land Surveyor under the laws of the State of New Mexico, do hereby certify that this plat and description were prepared by me or under by supervision, shows all easements as shown on the plat of record or made known to me by the owner(s) and /or proprietor(s) of the subdivision shown hereon, utility companies and other parties expressing an interest and meets the Minimum Standards for Land Surveying in the State of New Mexico (Effective November 1, 1989, Revised December 25, 1991), and is true and correct to the best of my knowledge and belief."

[signature] 2-23-93
Timothy Aldrich, P.S. No. 7719 — Date

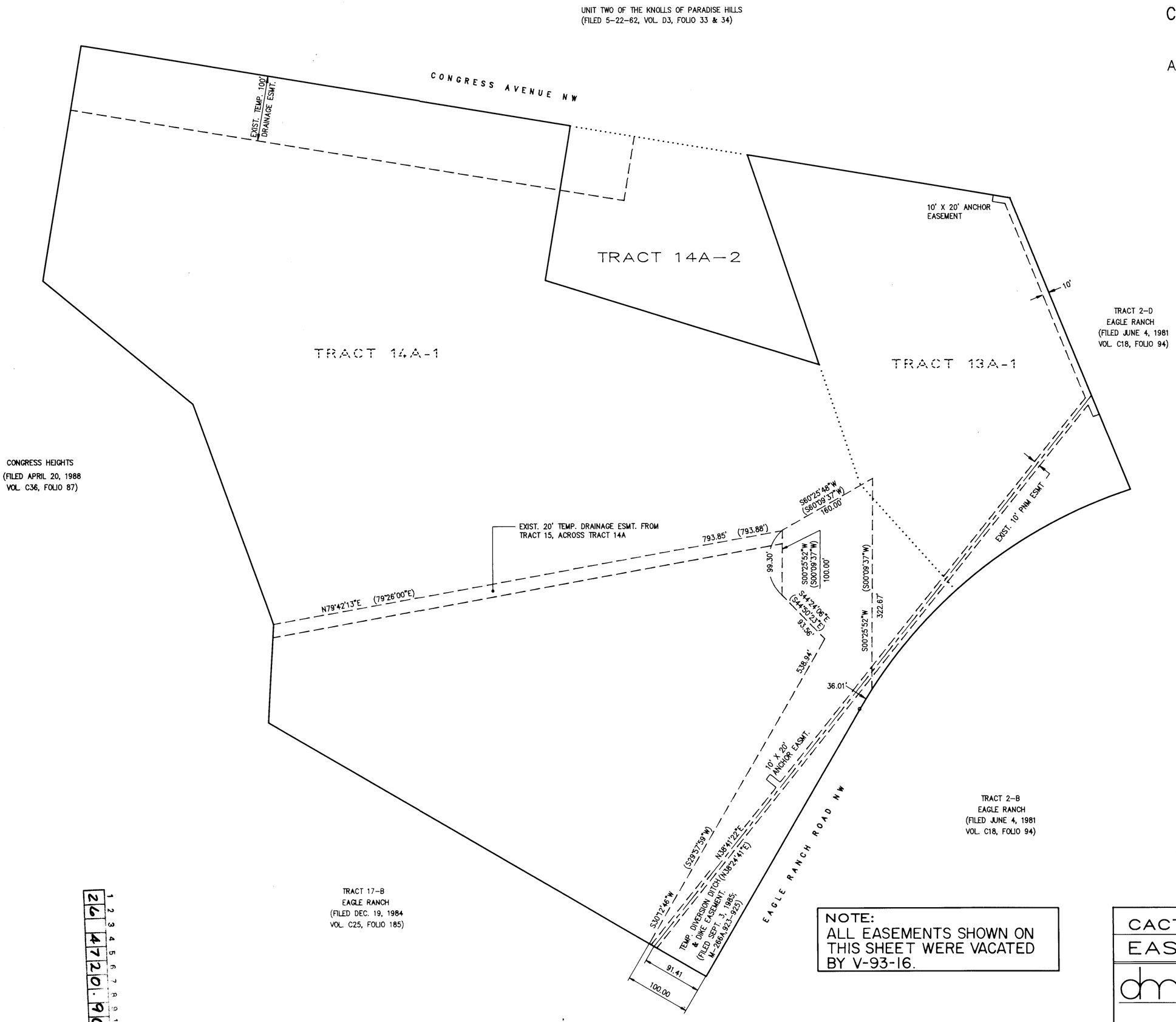
CACTUS HILLS SUBDIVISION

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

Designed: JG	Drawn: BJG	Checked: ALS	Sheet 1 of 4
Scale: 1"=100'	Date: 1/93	Job: 9275	

CACTUS\CACTUS1

PLAT OF
CACTUS HILLS SUBDIVISION
WITHIN SECTIONS 7 & 18
T11N, R3E, NMPM
ALBUQUERQUE, NEW MEXICO
JANUARY 1993



NOTE:
ALL EASEMENTS SHOWN ON THIS SHEET WERE VACATED BY V-93-16.

CACTUS HILLS SUBDIVISION
EASEMENT VACATIONS

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

Designed: BJG	Drawn: BJG	Checked: ALS	Sheet 4 of 4
Scale: 1"=100'	Date: 1/93	Job: 9275	

CACTUS\CACTUS4

26 4720.90 0394
SCANNED BY BY LASON

PLAT OF
CACTUS HILLS SUBDIVISION
WITHIN SECTIONS 7 & 18
T11N, R3E, NMPM
ALBUQUERQUE, NEW MEXICO
JANUARY 1993

CURVE DATA

NO.	RADIUS	DELTA	LENGTH	CHORD	
1	120.00	59-55-33	125.51	N20-30-55W	119.87
2	120.00	30-29-57	63.88	S35-13-44E	63.13
3	75.00	90-00-00	117.81	N64-58-45W	106.07
4	100.00	42-47-39	74.69	S48-37-25W	72.97
5	75.00	82-13-15	107.63	N31-39-46W	98.63
7	120.00	53-59-07	113.07	S45-46-50E	108.93
8	100.00	19-13-09	33.54	S09-10-43E	33.39
9	120.00	29-48-22	61.72	S15-20-03W	62.43
12	100.00	19-26-25	33.93	S71-00-54W	33.77
13	25.00	89-59-44	39.27	S35-33-01E	35.35
14	25.00	22-30-51	9.82	S20-42-16W	9.76
15	60.00	36-16-16	37.98	N13-49-34E	37.35
16	60.00	41-49-38	43.80	N25-13-23W	42.84
17	60.00	26-51-21	28.12	N59-33-52W	27.87
18	25.00	22-30-51	9.82	S61-44-07E	9.76
19	95.00	10-17-21	17.06	S45-20-01E	17.04
20	95.00	20-12-36	33.51	S30-05-03E	33.34
21	75.00	14-17-08	18.70	N27-07-19W	18.65
22	75.00	27-59-43	36.65	N48-15-44W	36.28
23	75.00	33-26-01	43.76	N78-58-37W	43.15
24	75.00	14-17-08	18.70	S77-09-49W	18.65
25	125.00	19-28-58	42.50	S60-16-46W	42.30
26	125.00	19-28-58	42.50	S40-47-49W	42.30
27	125.00	3-49-44	8.35	S29-08-28W	8.35
28	25.00	80-00-00	34.91	N67-13-36E	32.14
29	95.00	32-21-14	53.64	S56-35-47E	52.93
30	95.00	21-37-53	35.87	S29-36-13E	35.65
31	25.00	80-04-58	34.94	S21-15-12W	32.17
32	75.00	19-26-25	25.45	S71-00-54W	25.33
33	25.00	79-24-32	34.65	N59-33-37W	31.94
34	45.00	24-01-30	18.87	S31-52-06E	18.73
35	45.00	39-59-18	31.41	S63-52-30E	30.77
36	45.00	55-30-38	43.60	N68-22-31E	41.91
37	45.00	39-17-37	30.86	N20-58-24E	30.26
38	25.00	79-24-32	34.65	S41-01-51W	31.94
39	100.00	5-07-18	8.94	N78-10-28E	8.94
40	100.00	28-16-43	49.36	N61-28-27E	48.86
41	25.00	64-10-29	28.00	S79-25-20W	26.56
42	45.00	42-58-17	33.75	S89-58-35E	32.96
43	45.00	44-37-28	35.05	N46-13-33E	34.17
44	45.00	32-16-50	25.35	N07-46-24E	25.02
45	45.00	29-42-39	23.33	N23-13-20W	23.07
46	45.00	46-08-47	36.24	N61-09-03W	35.27
47	25.00	32-47-31	14.31	S67-49-42E	14.11
48	25.00	31-22-58	13.69	S35-44-27E	13.52
49	100.00	27-26-48	47.90	N33-46-22W	47.45
50	100.00	12-16-00	21.41	N53-37-46W	21.37
51	51.00	32-12-44	28.67	N75-52-08W	28.30
52	51.00	33-41-16	29.99	S71-10-52W	29.56
53	51.00	22-55-28	20.41	S42-52-30W	20.27
54	25.00	88-49-28	38.76	N75-49-30E	34.99
55	25.00	89-58-10	39.26	S14-46-41E	35.35
56	50.00	140-29-53	122.61	N10-29-10E	94.12
57	75.00	90-00-00	117.81	S75-14-14W	106.07
58	95.00	29-48-22	49.42	S15-20-03W	48.87
59	25.00	119-08-11	51.98	S59-08-13E	43.11
60	125.00	19-26-25	42.41	S71-00-54W	42.21

NO.	RADIUS	DELTA	LENGTH	CHORD	
61	25.00	90-00-00	39.27	N14-45-46W	35.36
62	25.00	90-01-50	39.28	S75-13-19W	35.36
63	145.00	13-39-57	34.58	S23-24-16W	34.50
64	145.00	16-08-25	40.85	S08-30-05W	40.71
65	750.03	0-17-13	3.75	N30-22-34E	3.75
66	750.03	2-28-03	32.30	N31-43-38E	32.30
67	750.03	5-18-19	69.45	N35-36-49E	69.42
68	125.00	10-45-13	23.46	S04-56-45E	23.43
69	25.00	71-37-02	31.25	N25-29-10E	29.25
70	750.03	10-01-35	131.25	N43-16-46E	131.08
71	750.03	4-43-07	61.77	N50-39-07E	61.75
72	750.03	4-44-24	62.05	N55-22-52E	62.03
73	750.03	4-11-35	54.89	N59-50-51E	54.88
74	750.03	10-04-25	131.87	N66-58-51E	131.70
75	25.00	44-24-55	19.38	N83-30-09E	18.90
76	45.00	45-46-11	35.95	S82-49-31W	35.00
77	45.00	46-13-05	36.30	S36-49-53W	35.32
78	45.00	47-34-53	37.37	S10-04-06E	36.31
79	45.00	47-52-50	37.61	S57-47-57E	36.52
80	45.00	50-55-55	40.00	N72-47-40E	38.70
81	45.00	30-26-57	23.91	N32-06-15E	23.63
82	25.00	44-24-55	19.38	S39-05-14W	18.90
83	25.00	99-55-02	43.60	N68-44-48W	38.28
84	145.00	5-53-11	14.90	S21-43-53E	14.89
85	145.00	20-41-51	52.38	S35-01-24E	52.10
86	145.00	21-06-30	53.42	S55-55-34E	53.12
87	145.00	6-17-35	15.93	S69-37-37E	15.92
88	50.00	82-13-15	71.75	N31-39-47W	65.75
89	75.00	4-52-14	6.38	N11-52-58E	6.37
90	25.00	85-08-03	37.15	N56-53-06E	33.82
91	25.00	94-51-57	41.39	S33-06-54E	36.82
92	25.00	85-07-46	37.14	S56-52-58W	33.82
93	25.00	44-24-55	19.38	N58-20-41W	18.90
94	45.00	37-36-47	29.54	S54-56-37E	29.01
95	45.00	46-40-25	36.66	N82-54-47E	35.65
96	45.00	46-56-39	36.87	N36-06-15E	35.85
97	45.00	48-36-57	38.18	N11-40-33W	37.05
98	45.00	51-22-16	40.35	N61-40-09W	39.01
99	45.00	37-36-47	29.54	S73-50-19W	29.01
100	25.00	44-24-55	19.38	N77-14-23E	18.90
101	25.00	90-00-00	39.27	S35-33-09E	35.36
102	100.00	17-28-05	30.49	N00-42-48E	30.37
103	100.00	21-35-35	37.69	N18-49-02W	37.46
104	100.00	25-43-33	44.90	N42-28-35W	44.52
105	100.00	13-24-52	23.41	N62-02-48W	23.36
106	25.00	95-58-49	41.88	S20-45-49E	37.15
107	75.00	42-47-39	56.02	S48-37-25W	54.72
108	50.00	90-00-00	78.54	N64-58-45W	70.71
109	145.00	7-42-28	19.51	S23-49-59E	19.49
110	145.00	16-03-39	40.65	S35-43-02E	40.51
111	145.00	6-43-50	17.03	S47-06-47E	17.02
112	95.00	29-57-47	49.68	N35-29-49W	49.12
113	95.00	29-57-46	49.68	N05-32-02W	49.12
114	25.00	90-00-16	39.27	N54-26-59E	35.36
115	75.00	67-05-33	87.82	N47-11-20E	82.89
116	75.00	73-24-20	96.09	N23-03-36W	89.65
117	100.00	78-43-14	137.39	N80-52-37E	126.84
118	100.00	11-16-46	19.69	N35-52-37E	19.65
119	100.00	2-26-15	4.25	N10-39-58E	4.25
120	100.00	2-25-59	4.25	N13-06-05E	4.25

LOT AREAS

BLOCK	LOT	ACRES	LOT	ACRES
1	1	0.1610	29	0.1987
	2	0.1386	30	0.1972
	3	0.1386	31	0.2069
	4	0.1386	32	0.1825
	5	0.1629	33	0.1595
	6	0.2038	34	0.1539
	7	0.1607	35	0.1357
	8	0.1387	36	0.1392
	9	0.1387	37	0.1943
	10	0.1310	38	0.2834
	11	0.1301	39	0.2905
	12	0.1388	40	0.2007
	13	0.1388	41	0.1569
	14	0.1391	42	0.1395
	15	0.3092	43	0.1391
	16	0.2524	44	0.1391
	17	0.1264	45	0.1391
	18	0.1261	46	0.1392
	19	0.1267	47	0.1392
	20	0.1404	48	0.1406
	21	0.1432	49	0.2002
	22	0.1562	50	0.2302
	23	0.1569	51	0.1722
	24	0.1389		
	25	0.1389		
	26	0.2005		
	27	0.1961		
	28	0.1794		

BLOCK	LOT	ACRES
2	1	0.1838
	2	0.1585
	3	0.1485
	4	0.1885
	5	0.2514
	6	0.2186
	7	0.1799
	8	0.1677
	9	0.1501
	10	0.1596
	11	0.1822
	12	0.1895
	13	0.1849
	14	0.1867
	15	0.1853
	16	0.1928
	17	0.1433
	18	0.1391
	19	0.2076
	20	0.1481
	21	0.1377
	22	0.1726
	23	0.1527
	24	0.1263
	25	0.1263
	26	0.1464

BLOCK	LOT	ACRES
3	1	0.2322
	2	0.1515
	3	0.1515
	4	0.1515
	5	0.1515
	6	0.2340
	7	0.1874
	8	0.1821
	9	0.2557
	10	0.2578
	11	0.2980

BLOCK	LOT	ACRES	LOT	ACRES
4	1	0.1580	18	0.2189
	2	0.1389	19	0.1870
	3	0.1388	20	0.2681
	4	0.1399	21	0.2321
	5	0.1941	22	0.1393
	6	0.1389	23	0.1392
	7	0.2227	24	0.1392
	8	0.2789	25	0.1392
	9	0.1745	26	0.1393
	10	0.1663	27	0.2338
	11	0.1463	28	0.1386
	12	0.2748	29	0.1388
	13	0.2258	30	0.1401
	14	0.2841	31	0.1667
	15	0.1835		
	16	0.1516		
	17	0.1584		

CACTUS HILLS SUBDIVISION
CURVE DATA AND LOT AREAS

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

Designed: BJG	Drawn: BJG	Checked: ALS	Sheet 3 of 4
Scale: 1"=100'	Date: 1/93	Job: 9275	

CACTUS\CACTUS3

SHT. 3 of 22

GENERAL NOTES

1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION SHALL GOVERN ALL WORK.
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AS PER D.T.L. THIS SHT. AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
5. THE EARTHWORK CONTACTOR SHALL STOCKPILE ENOUGH MATERIAL ADJACENT TO RETAINING WALL LOCATIONS TO BE UTILIZED FOR WALL BACKFILL.

LEGEND

	MOUNTABLE CURB & GUTTER
	STANDARD CURB & GUTTER
• 76.76	PROPOSED SPOT ELEVATION
	RETAINING WALL
F.F.=79.66	FINISHED FLOOR ELEVATION
X 5058.4	EXISTING SPOT ELEVATION
	GARDEN WALL 1'-6"
80	PROPOSED CONTOUR
T.W.	TOP OF WALL
•	STORMDRAIN MANHOLE

26 4720.900494

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the Contractor, MCC, Inc., and by the Surveyor, Aldrich Land Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

Gregory P. Krenik, NMPE 11929

8-22-93

NEW MEXICO REGISTERED PROFESSIONAL ENGINEER GREGORY P. KRENIK 11929

AS BUILT INFORMATION

CONTRACTOR		
STAKED BY		DATE
INSPECTOR'S		
ACCEPTANCE BY		DATE
FIELD		
VERIFICATION BY		
AS-BUILTS		DATE
CORRECTED BY		

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

THE STATION IS LOCATED NEAR THE INTERSECTION OF ARROW AVE., AND BRYAN AVE. N.W. THE STATION IS A 3 1/4" ALUMINUM CAP RIVETED TO A PIPE PROTRUDING 0.1 FOOT ABOVE THE GROUND. AND IS STAMPED, "KCS 4-B13, 1986". X=375,489.27, Y=1,525,104.55, Z=5169.511

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		RE VISIONS DESIGN	

DESIGNED BY	GJK	DATE 7/93
DRAWN BY	AMD	DATE 7/93
CHECKED BY	DMC	DATE 7/93

dmg
D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:

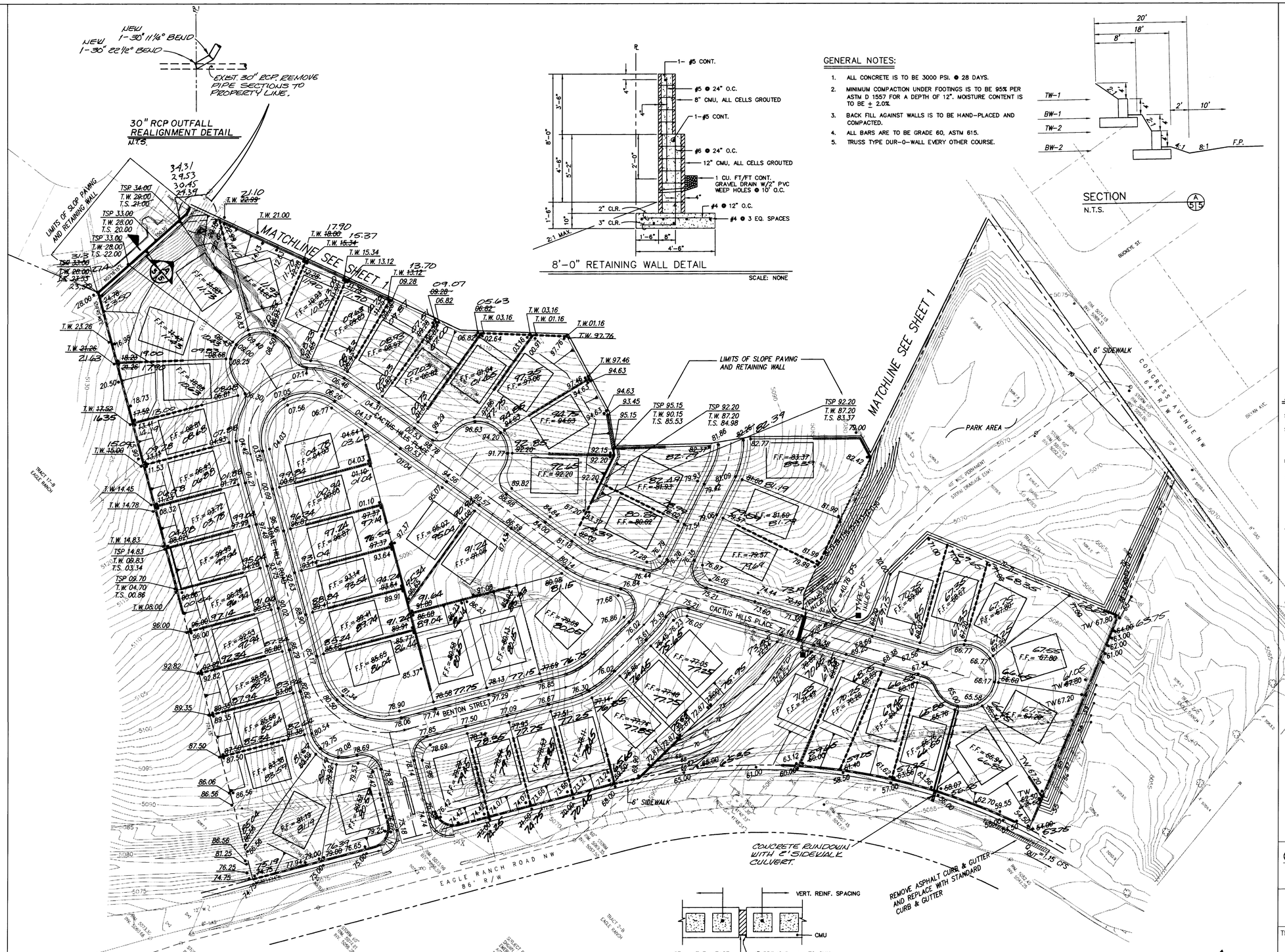
CACTUS HILLS SUBDIVISION GRADING & DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J.G.B.	8-17-93	WATER	U A RWL	8-5-93
TRANSPORTATION	N.A. [illegible]	8-3-93	WASTE WATER	U A RWL	8-5-93
HYDROLOGY	[illegible]	8-9-93			

PROJECT NO.	MAP NO.	SHEET	OF
4720.90	C13	4	22

CHS\GRADE A

SCANNED BY BY LASON



8'-0" RETAINING WALL DETAIL

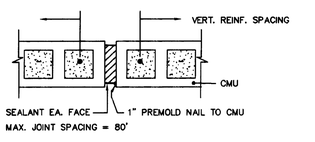
SCALE: NONE

GENERAL NOTES:

1. ALL CONCRETE IS TO BE 3000 PSI. @ 28 DAYS.
2. MINIMUM COMPACTION UNDER FOOTINGS IS TO BE 95% PER ASTM D 1557 FOR A DEPTH OF 12". MOISTURE CONTENT IS TO BE ± 2.0%.
3. BACK FILL AGAINST WALLS IS TO BE HAND-PLACED AND COMPACTED.
4. ALL BARS ARE TO BE GRADE 60, ASTM 615.
5. TRUSS TYPE DUR-O-WALL EVERY OTHER COURSE.

SECTION A 5.5

N.T.S.



PLAN VIEW

EXPANSION JT. DETAIL FOR RETAINING WALL

SCALE: NONE

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the Contractor, MCC, Inc. and by the Surveyor, Aldrich Land Surveying, and reflects the construction as actually accomplished. This plan as constructed is substantially consistent with the Approved Plan.

Gregory J. Krenik, NMPE 11929 5-22-94

GREGORY J. KRENIK NEW MEXICO 11929 REGISTERED PROFESSIONAL ENGINEER

6-16-94

LEGEND

═══	MOUNTABLE CURB & GUTTER
═══	STANDARD CURB & GUTTER
• 76.76	PROPOSED SPOT ELEVATION
═══	RETAINING WALL
- - - - -	GARDEN WALL 1'-6"
F.F.=79.66	FINISHED FLOOR ELEVATION
X 5058.4	EXISTING SPOT ELEVATION
——80——	PROPOSED CONTOUR
T.W.	TOP OF WALL

26 4720.900594

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

NO.	DATE	REMARKS	BY
		RE-VISIONS	
		DESIGN	

DESIGNED BY GJK DATE 7/93
DRAWN BY JMB DATE 7/93
CHECKED BY DMG DATE 7/93

AS BUILT INFORMATION

CONTRACTOR | DATE
WORK STAKED BY | DATE
INSPECTOR'S CONFIRMANCE BY | DATE
FIELD VERIFICATION BY | DATE
DRAWINGS CORRECTED BY | DATE

MICRO-FILM INFORMATION

RECORDED BY | DATE
NO.

BENCH MARKS

THE STATION IS LOCATED NEAR THE INTERSECTION OF ARROW AVE. AND BRYAN AVE. N.W. THE STATION IS A 3 1/4" ALUMINUM CAP RIVETED TO A PIPE PROTRUDING 0.1 FOOT ABOVE THE GROUND. AND IS STAMPED, "ACS 4-B13, 1986". X=373,489.27, Y=1,525,104.53, Z=5169.511

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

GREGORY JAMES KRENIK NEW MEXICO 11929 REGISTERED PROFESSIONAL ENGINEER

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

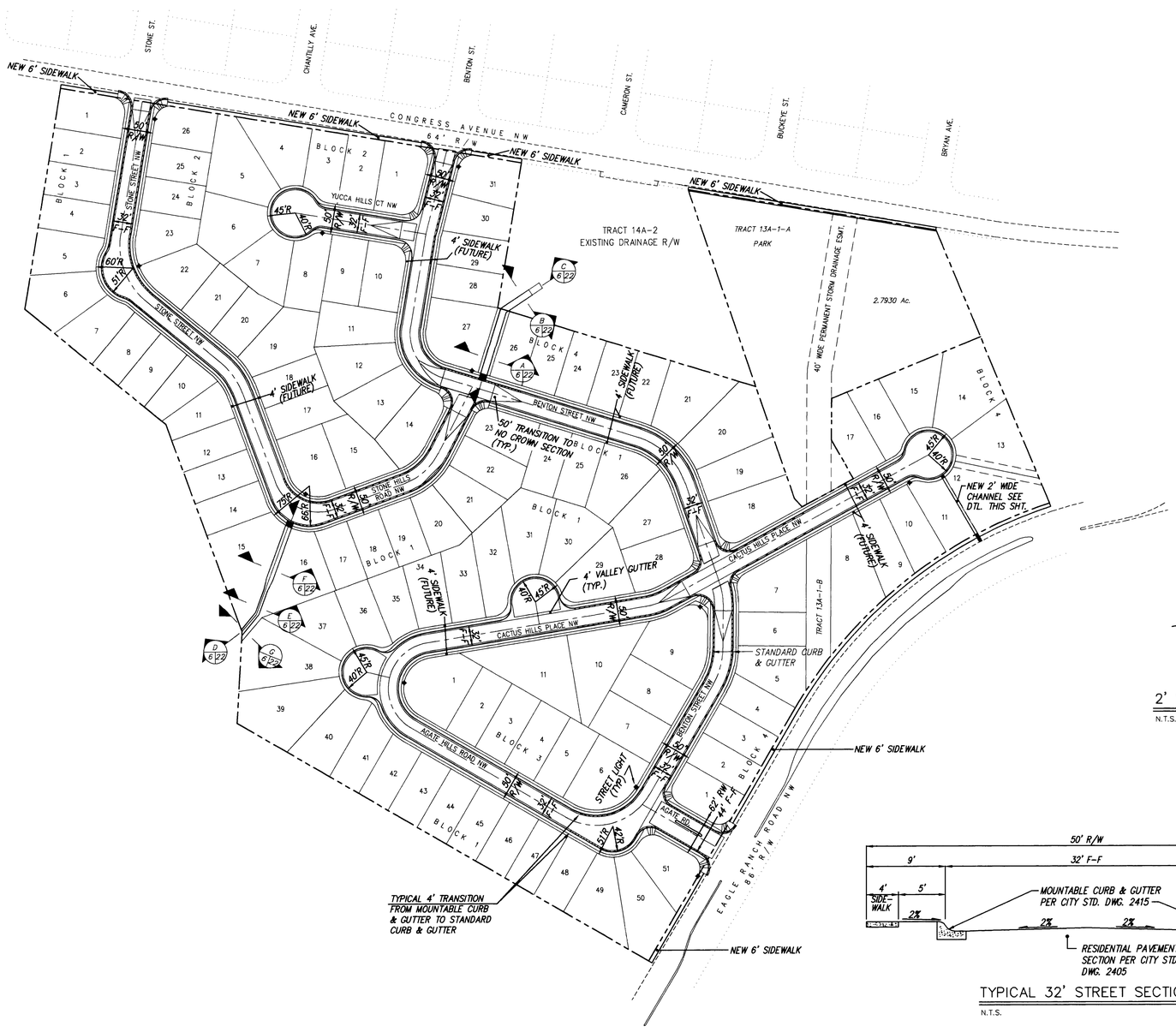
TITLE: CACTUS HILLS SUBDIVISION GRADING & DRAINAGE PLAN

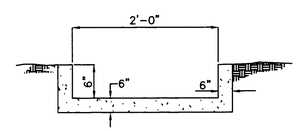
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.J.A.	8-17-93	WATER	N/A RWK	8-5-93
TRANSPORTATION	[illegible]	[illegible]	WASTE WATER	N/A RWK	8-5-93
HYDROLOGY	J. Martin	8-9-93			

PROJECT NO.	MAP NO.	SHEET	OF
4720.90	C13	5	22

CHS\GRADEB

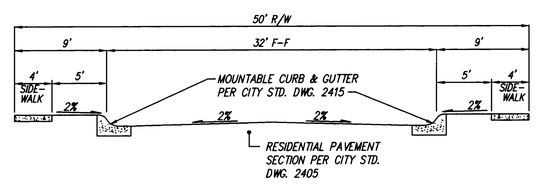
SCANNED BY BY LASON





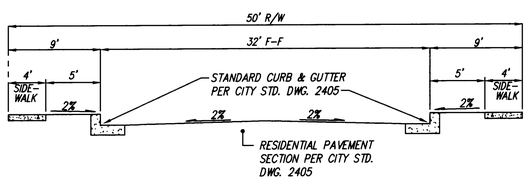
2' WIDE CONCRETE CHANNEL DETAIL

N.T.S.



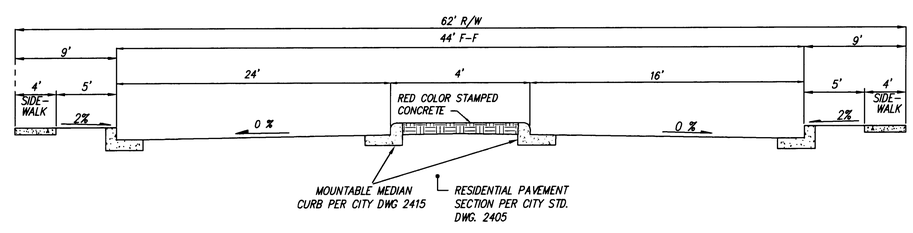
TYPICAL 32' STREET SECTION

N.T.S.



TYPICAL 32' STREET SECTION

N.T.S.



ENTRANCE ROAD SECTION

N.T.S.

SCALE: 1" = 100'

GENERAL NOTES

1. ALL VALLEY GUTTERS ARE TO HAVE 3/4" INVERT. PER CITY STD. DWG. 2422.
2. ALL 4' INTERIOR SIDEWALKS ARE DEFERRED.
3. UTILITY CROSSINGS ARE A PART OF THIS PROJECT.
4. ALL HANDICAP RAMPS TO BE CASE 2. PER CITY STD. DWG. 2441.
5. ALL 4' CURB TRANSITIONS WHEREAPPLICABLE ARE TO BE MADE THROUGH THE HANDICAP RAMP PER CITY STD. DWG. 2418.
6. TRANSITION SECTION FROM FULL CROWN TO NO CROWN TO BE A MINIMUM OF 50'.
7. SIDEWALK CULVERTS PER CITY STANDARD DRAWING 2236.
8. ALL VALLEY GUTTERS IN A NON STOP CONDITION SAHLL BE 10' WIDE WITH A 3/4" INVERT.

LEGEND

- STANDARD CURB & GUTTER
- MOUNTABLE CURB & GUTTER
- NEW SIDEWALK CULVERT

26 4720.900694

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

AS BUILT INFORMATION
CONTRACTOR M.C.C.
WORK STAKED BY Alfred Sanchez DATE 11-93
INSPECTOR'S ACCEPTANCE BY C.D. Spencer DATE 5-20-94
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
THE STATION IS LOCATED NEAR THE INTERSECTION OF ARROW AVE. AND BRYAN AVE. N.W. THE STATION IS A 3 1/4" ALUMINUM CAP RIVETED TO A PIPE PROTRUDING 0.1 FOOT ABOVE THE GROUND. AND IS STAMPED, "ACS 4-B13, 1986".
X=375,489.27, Y=1,525,104.55, Z=5169.511

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
D. MARK GOODWIN 6946 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 6/8/93

NO.	DATE	REMARKS	BY

REVISIONS

		DATE
DESIGN		
DESIGNED BY	G.K.	6/93
DRAWN BY	MB	6/93
CHECKED BY	DMG	6/93

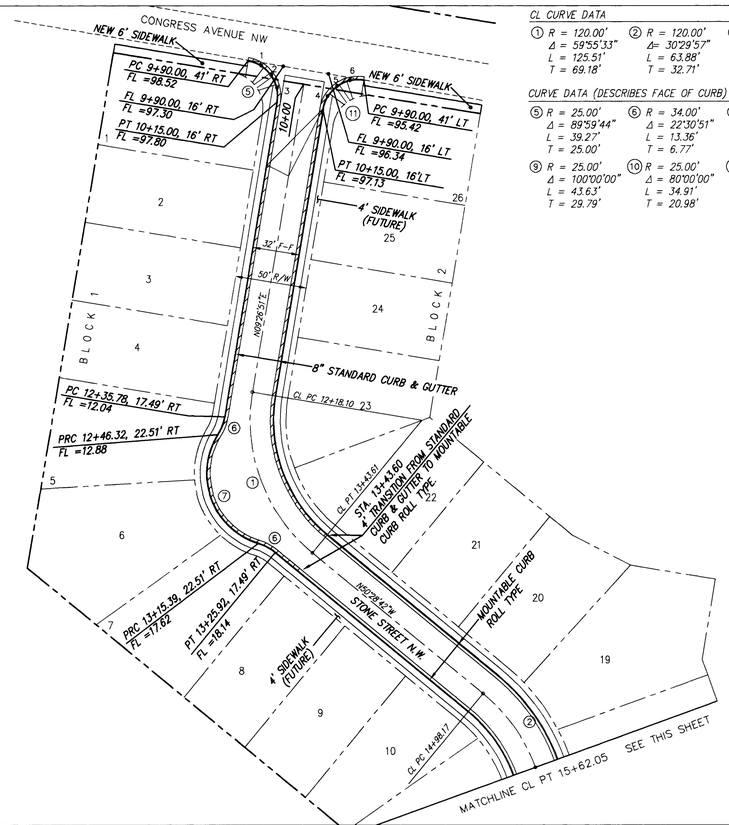
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CACTUS HILLS SUBDIVISION MASTER PAVING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		8-17-93	WATER	N/A RWK	8-9-93
TRANSPORTATION			WASTE WATER	N/A RWK	8-9-93
HYDROLOGY		8-4-93	N.M.U.I.		

PROJECT NO.	MAP NO.	SHEET	OF
4720.90	C13	6	22

CHS\MASTERP

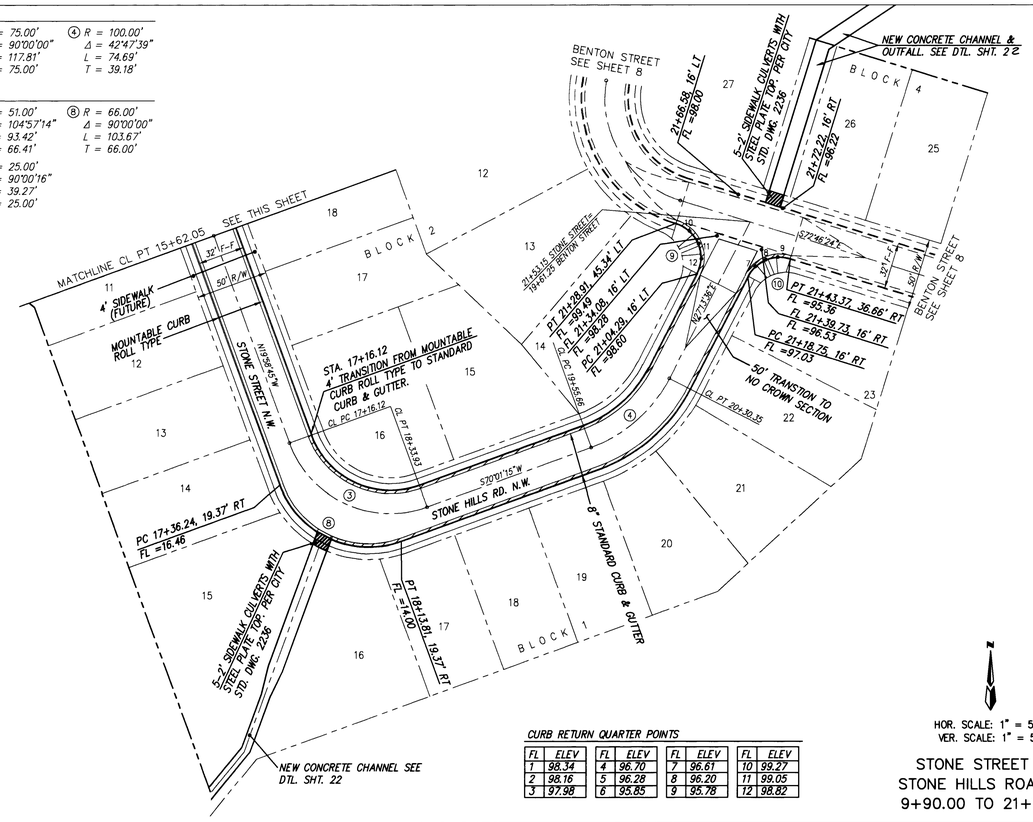


CL CURVE DATA

① R = 120.00'	② R = 120.00'	③ R = 75.00'	④ R = 100.00'
Δ = 59°55'33"	Δ= 30°29'57"	Δ = 90°00'00"	Δ = 42°47'39"
L = 125.51'	L = 63.88'	L = 117.81'	L = 74.69'
T = 69.18'	T = 32.71'	T = 75.00'	T = 39.18'

CURVE DATA (DESCRIBES FACE OF CURB)

⑤ R = 25.00'	⑥ R = 34.00'	⑦ R = 51.00'	⑧ R = 66.00'
Δ = 89°59'44"	Δ = 22°30'51"	Δ = 104°57'14"	Δ = 90°00'00"
L = 39.27'	L = 13.36'	L = 93.42'	L = 103.67'
T = 25.00'	T = 6.77'	T = 66.41'	T = 66.00'
⑨ R = 25.00'	⑩ R = 25.00'	⑪ R = 25.00'	
Δ = 100°00'00"	Δ = 80°00'00"	Δ = 90°00'16"	
L = 43.63'	L = 34.91'	L = 39.27'	
T = 29.79'	T = 20.98'	T = 25.00'	

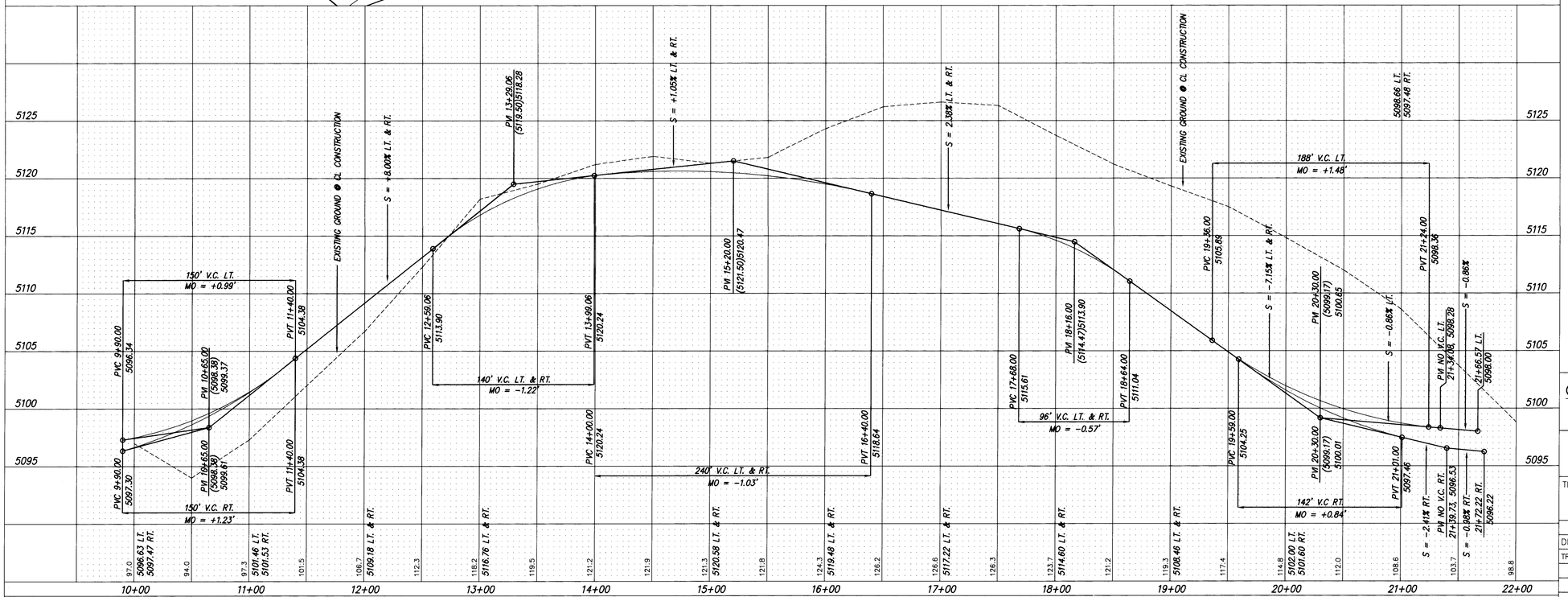


CURB RETURN QUARTER POINTS

FL	ELEV	FL	ELEV	FL	ELEV	FL	ELEV
1	98.34	4	96.70	7	96.61	10	99.27
2	98.16	5	96.28	8	96.20	11	99.05
3	97.98	6	95.85	9	95.78	12	98.82

HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'

STONE STREET NW
STONE HILLS ROAD NW
9+90.00 TO 21+72.22



CHS\STONEP

AS BUILT INFORMATION
CONTRACTOR M.C.C.
WORK STAKED BY Aldrich Surveying DATE 11-93
INSPECTOR'S ACCEPTANCE BY C.D. Spencer DATE 5-20-94
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
THE STATION IS LOCATED NEAR THE INTERSECTION OF ARROW AVE. AND BRYAN AVE. N.W. THE STATION IS A 3 1/4" ALUMINUM CAP RIVETTED TO A PIPE PROTRUDING 0.1 FOOT ABOVE THE GROUND. AND IS STAMPED, "ACS 4-B13, 1986". X=375,489.27, Y=1,525,104.55, Z=5169.511

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
NAPOLEON GOODWIN NEW MEXICO 8948 U.S. REGISTERED
7-23-93

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY	GJK	DATE	7/93
DRAWN BY	STAFF	DATE	7/93
CHECKED BY	DMG	DATE	7/93

26 4720.9010794

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

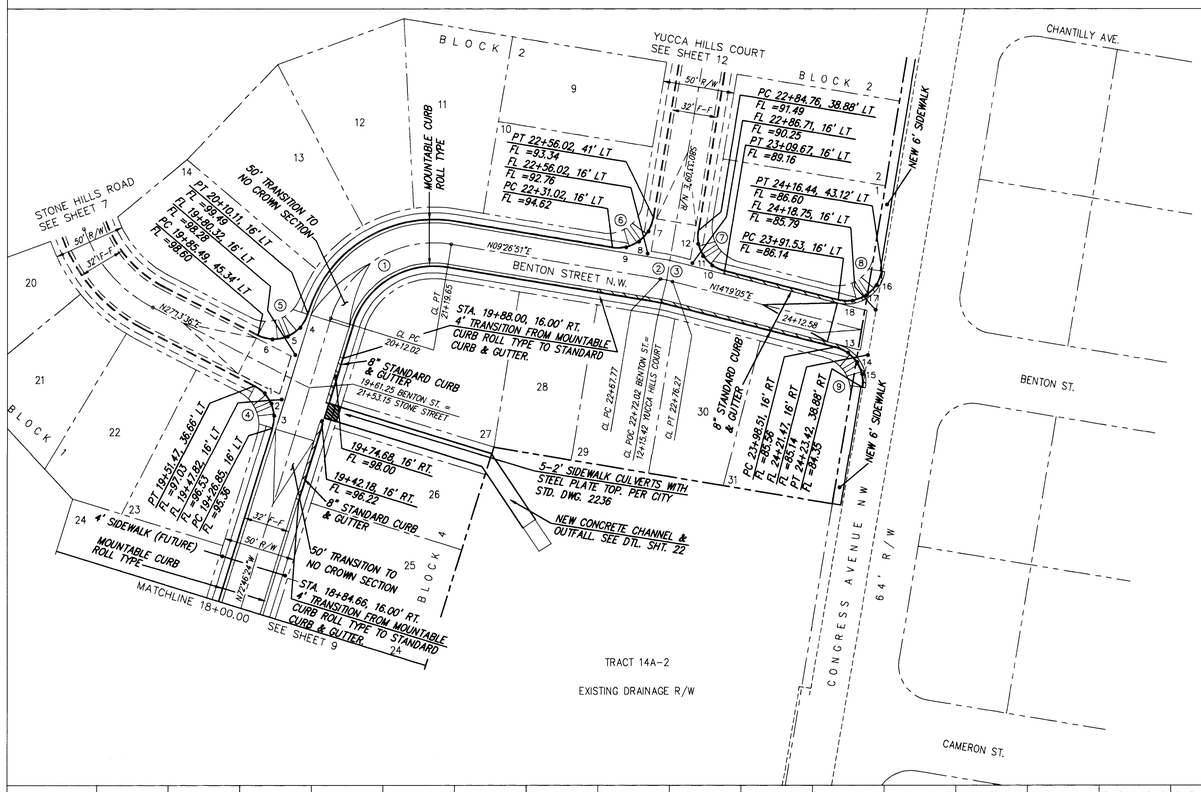
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CACTUS HILLS SUBDIVISION
PAVING IMPROVEMENTS
STONE STREET NW STA. 9+90.00 TO STA. 21+72.22

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		8-17-93	WATER	U/A RWK	8-5-93
TRANSPORTATION		8-13-93	WASTE WATER	N/A RWK	8-5-93
HYDROLOGY	N/A JPC	8-4-93	N.M.U.I.		

PROJECT NO.	MAP NO.	SHEET	OF
4720.90	C13	7	22

SCANNED BY BY LASON



CURB RETURN QUARTER POINTS

FL	ELEV	FL	ELEV	FL	ELEV	FL	ELEV	FL	ELEV	FL	ELEV
1	96.61	4	99.27	7	93.66	10	89.74	13	85.26	16	86.49
2	96.20	5	99.05	8	93.38	11	90.33	14	84.96	17	86.37
3	95.78	6	98.82	9	94.30	12	90.91	15	84.65	18	86.26

CL CURVE DATA

① R = 75.00'
Δ = 82°13'15"
L = 107.63'
T = 65.45'

② R = 100.00'
Δ = 2°26'15"
L = 4.25'
T = 2.13'

③ R = 100.00'
Δ = 2°25'59"
L = 4.25'
T = 2.12'

CURVE DATA (DESCRIBES FACE OF CURB)

④ R = 25.00'
Δ = 80°00'00"
L = 34.91'
T = 20.98'

⑤ R = 25.00'
Δ = 100°00'00"
L = 43.63'
T = 29.79'

⑥ R = 25.00'
Δ = 90°00'00"
L = 39.27'
T = 25.00'

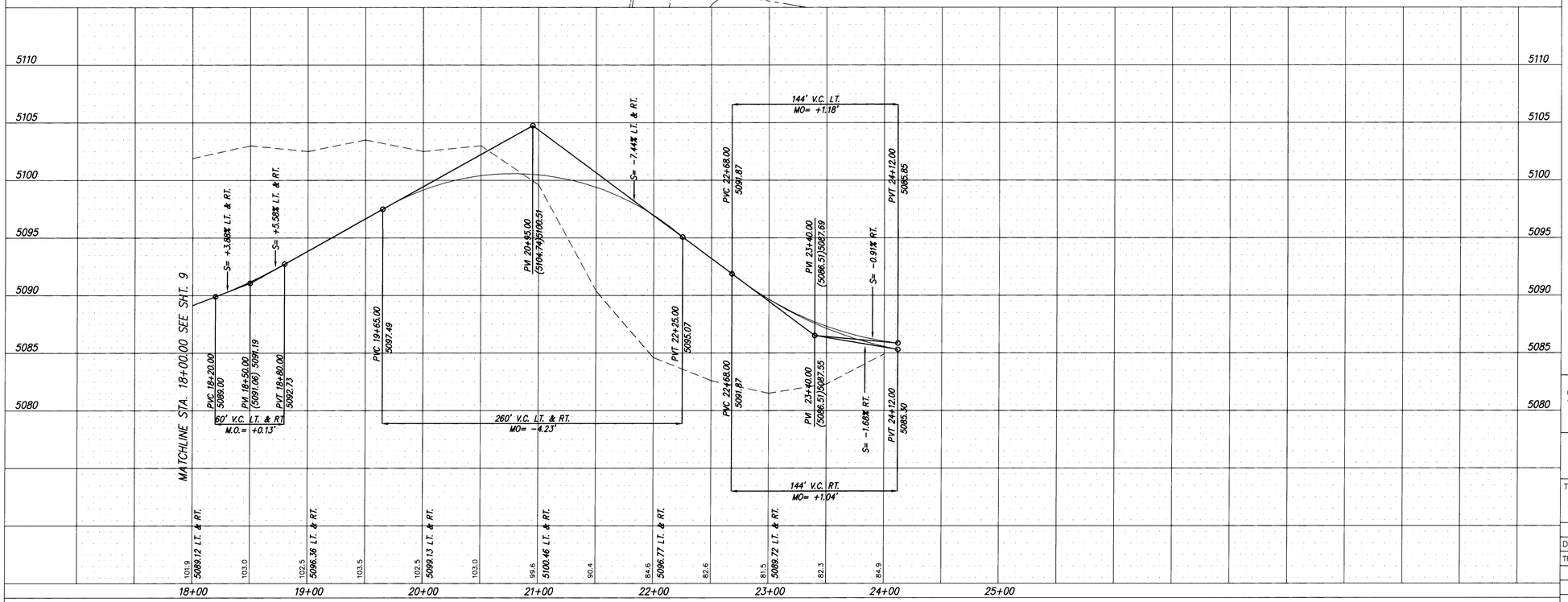
⑦ R = 25.00'
Δ = 85°07'46"
L = 37.14'
T = 22.96'

⑧ R = 25.00'
Δ = 94°51'57"
L = 41.39'
T = 27.22'

⑨ R = 25.00'
Δ = 85°08'03"
L = 37.15'
T = 22.96'

HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'

BENTON STREET NW
18+00.00 TO 24+21.47



CHS\BENTONP2

AS BUILT INFORMATION

CONTRACTOR M.C.C.
WORK STAKED BY Aldrich Surveying DATE 1-93
SUBGRADE'S ACCEPTANCE BY C.O. Spencer DATE 5-12-94
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

THE STATION IS LOCATED NEAR THE INTERSECTION OF ARROW AVE. AND BRYAN AVE. N.W. THE STATION IS A 3 1/4" ALUMINUM CAP RIVETTED TO A PIPE PROTRUDING 0.1 FOOT ABOVE THE GROUND. AND IS STAMPED, "ACS 4-B13, 1986".
X=375,489.27, Y=1,525,104.55, Z=5169.511

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

D. MARK GOODWIN NEW MEXICO 8996 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY	GJK	DATE	6/93
DRAWN BY	STAFF	DATE	6/93
CHECKED BY	DMG	DATE	6/93

26 4720.900894

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

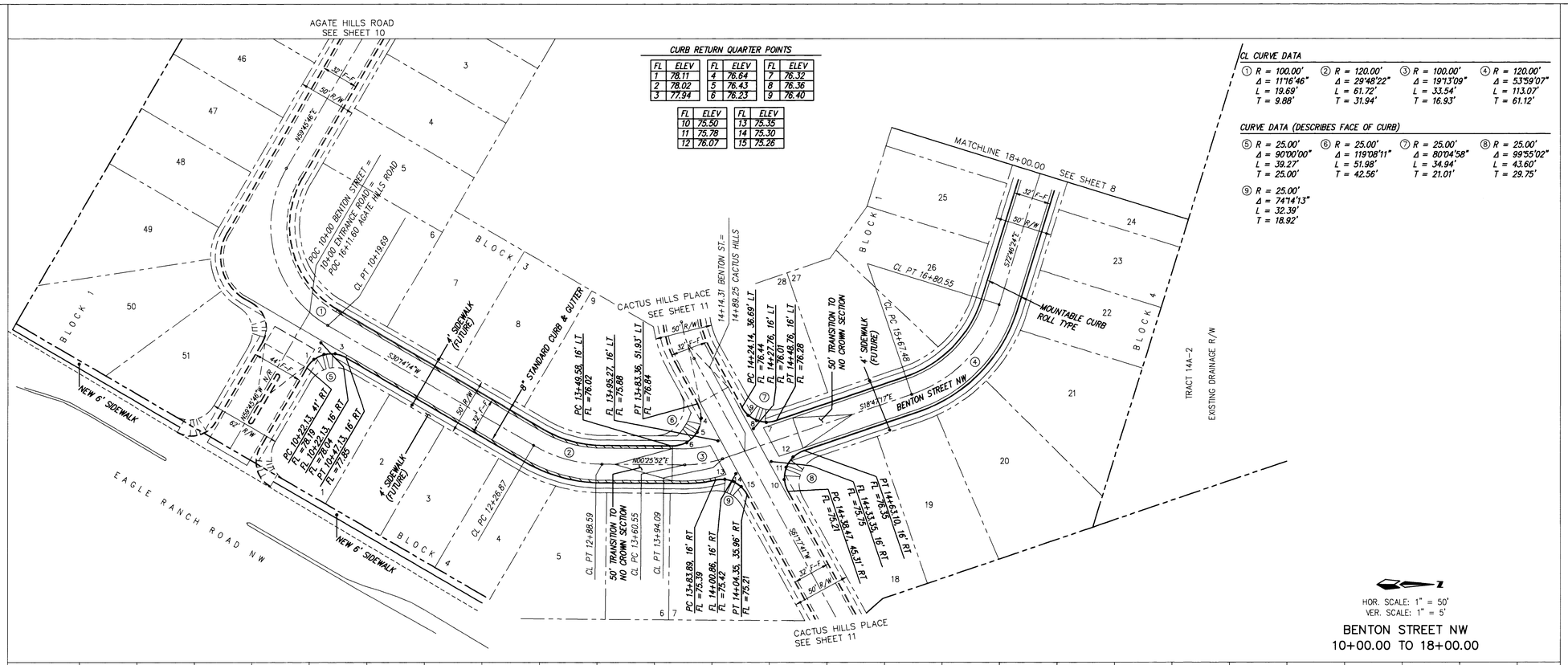
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CACTUS HILLS SUBDIVISION
PAVING IMPROVEMENTS
BENTON STREET NW STA. 18+00.00 TO STA. 24+21.47

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[illegible]	8-17-93	WATER	N/A RWK	8-4-93
TRANSPORTATION	[illegible]	8-03-93	WASTE WATER	N/A RWK	8-4-93
HYDROLOGY	N/A JPC	8-4-93	N.M.U.I.		

PROJECT NO.	MAP NO.	SHEET	OF
4720.90	C13	8	22

SCANNED BY
BY LASON



CURB RETURN QUARTER POINTS

FL	ELEV	FL	ELEV	FL	ELEV
1	78.11	4	76.64	7	76.32
2	78.02	5	76.43	8	76.36
3	77.94	6	76.23	9	76.40

FL	ELEV	FL	ELEV
10	75.50	13	75.35
11	75.78	14	75.30
12	76.07	15	75.26

CL CURVE DATA

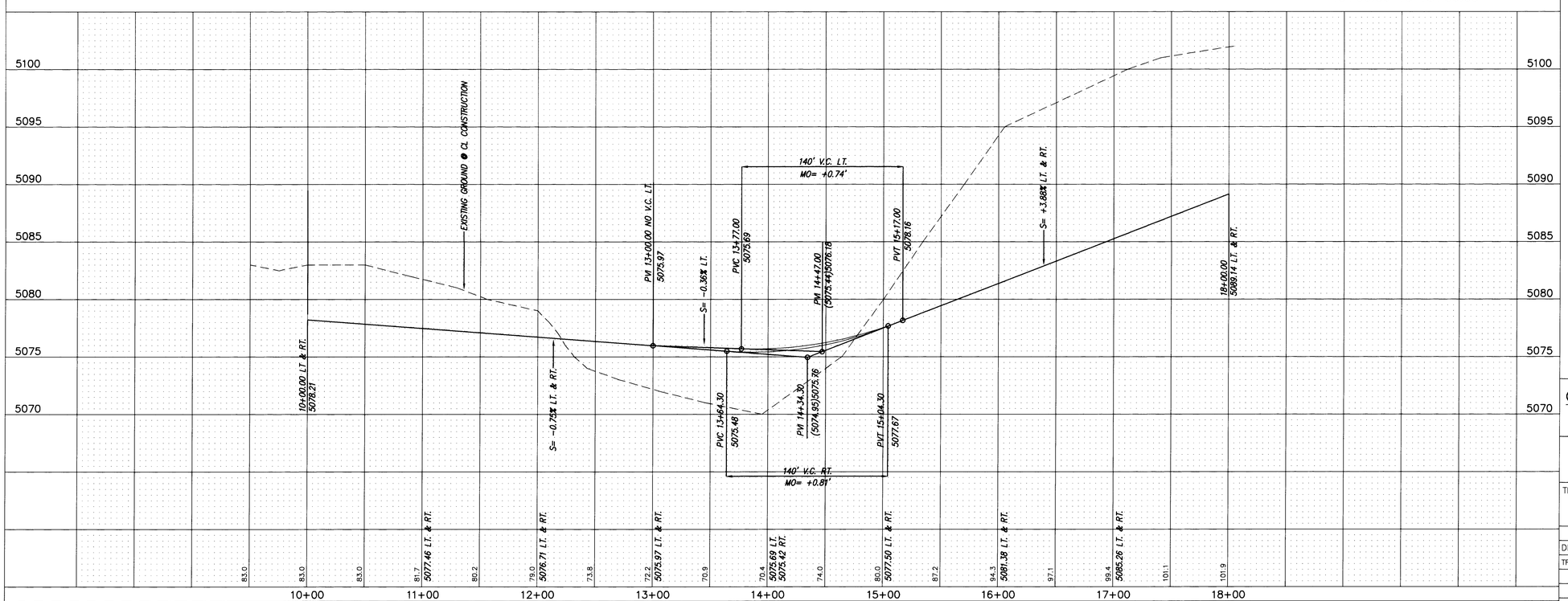
① R = 100.00' Δ = 11°16'46" L = 19.69' T = 9.88'
② R = 120.00' Δ = 29°48'22" L = 61.72' T = 31.94'
③ R = 100.00' Δ = 19°13'09" L = 33.54' T = 16.93'
④ R = 120.00' Δ = 53°59'07" L = 113.07' T = 61.12'

CURVE DATA (DESCRIBES FACE OF CURB)

⑤ R = 25.00' Δ = 90°00'00" L = 39.27' T = 25.00'
⑥ R = 25.00' Δ = 119°08'11" L = 51.98' T = 42.56'
⑦ R = 25.00' Δ = 80°04'58" L = 34.94' T = 21.01'
⑧ R = 25.00' Δ = 99°55'02" L = 43.60' T = 29.75'
⑨ R = 25.00' Δ = 74°14'13" L = 32.39' T = 18.92'

HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'

BENTON STREET NW
10+00.00 TO 18+00.00



CHS\BENTONP1

AS BUILT INFORMATION
CONTRACTOR M.G.C.
WORK STAKED BY Alarich Surveying DATE 1-93
INSPECTOR'S ACCEPTANCE BY D.O. Spencer DATE 5-20-94
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
THE STATION IS LOCATED NEAR THE INTERSECTION OF ARROW AVE. AND BRYAN AVE. N.W. THE STATION IS A 3 1/4" ALUMINUM CAP RIVETED TO A PIPE PROTRUDING 0.1 FOOT ABOVE THE GROUND, AND IS STAMPED, "ACS 4-813, 1986".
X=375,489.27, Y=1,525,104.55, Z=5169.511

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
D. MARK GOODWIN NEW MEXICO 8948 REGISTERED PROFESSIONAL ENGINEER
5-19-93

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY GJK DATE 7/93
DRAWN BY STAFF DATE 7/93
CHECKED BY DMG DATE 7/93

26 4720.900994

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

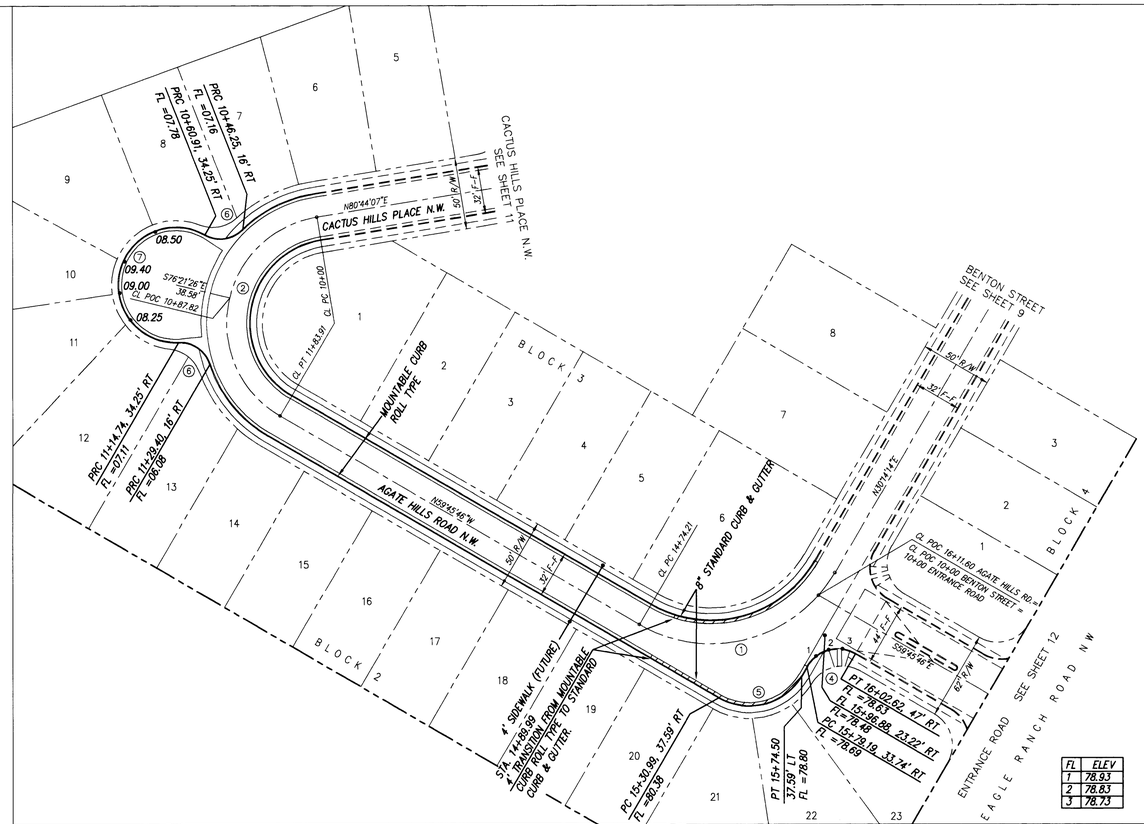
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CACTUS HILLS SUBDIVISION
PAVING IMPROVEMENTS
BENTON STREET NW STA. 10+00.00 TO STA. 18+00.00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	8-17-93	WATER	N/A RWK	8-9-93
TRANSPORTATION	[signature]	8-03-93	WASTE WATER	N/A RWK	8-9-93
HYDROLOGY	N/A HPC	8-4-93	N.M.U.I.		

PROJECT NO.	MAP NO.	SHEET	OF
4720.90	C13	9	22

SCANNED BY
BY LASON



FL	ELEV
1	78.93
2	78.83
3	78.73

CL CURVE DATA

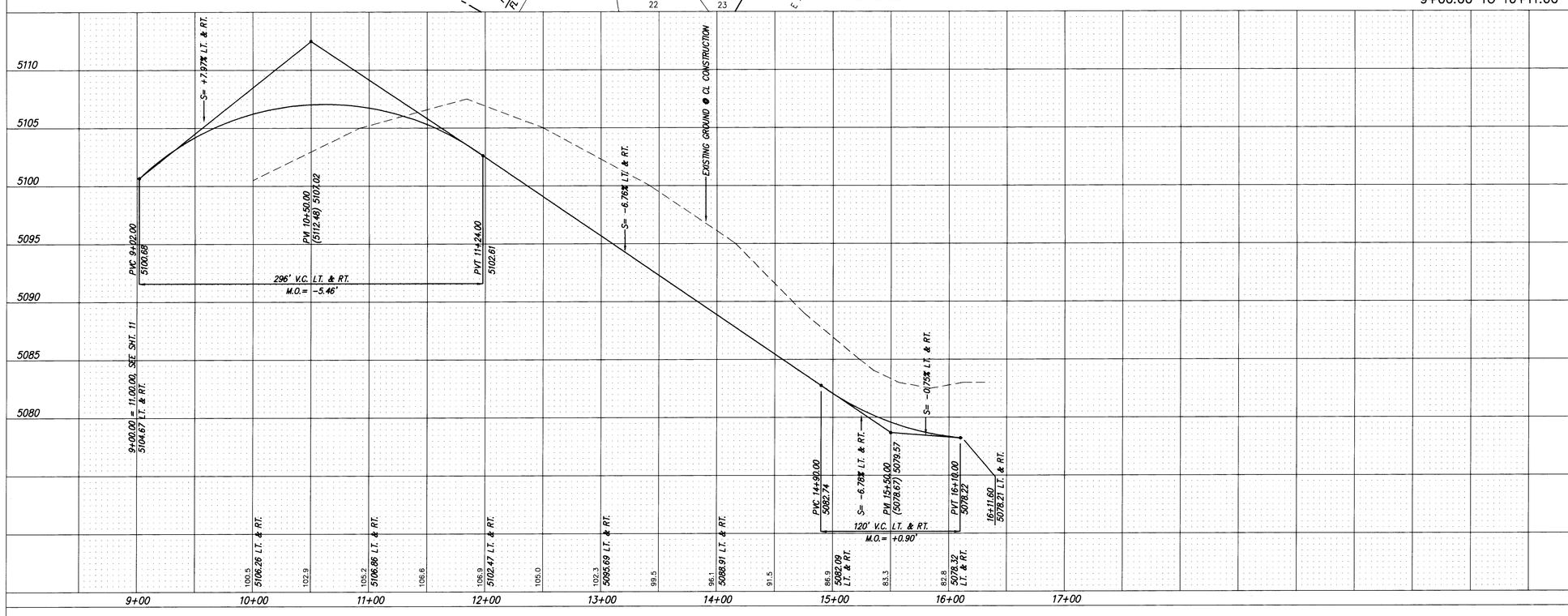
① R = 100.00'	② R = 75.00'
Δ = 78°43'14"	Δ = 140°29'53"
L = 137.39'	L = 183.91'
T = 82.02'	T = 208.88'

CURVE DATA (DESCRIBES FACE OF CURB)

④ R = 25.00'	⑤ R = 42.00'	⑥ R = 22.00'	⑦ R = 40.00'
Δ = 90°00'00"	Δ = 90°00'00"	Δ = 74°38'24"	Δ = 212°47'55"
L = 39.27'	L = 65.97'	L = 28.66'	L = 148.56'
T = 25.00'	T = 42.00'	T = 16.77'	T = N/A

HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'

AGATE HILLS ROAD N.W.
9+00.00 TO 16+11.60



CHS\CACTUSP1

AS BUILT INFORMATION

CONTRACTOR M.C.C.
WORK STAKED BY Adriel Surveying DATE 1-93
INSPECTOR'S ACCEPTANCE BY C.O. Spencer DATE 5-25-94
FIELD VERIFICATION DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

THE STATION IS LOCATED NEAR THE INTERSECTION OF ARROW AVE. AND BRYAN AVE. N.W. THE STATION IS A 3 1/4" ALUMINUM CAP RIVETTED TO A PIPE PROTRUDING 0.1 FOOT ABOVE THE GROUND. AND IS STAMPED, "ACS 4-B13, 1996".
X=375,489.27, Y=1,525,104.55, Z=5169.511

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	GJK	7/93
DRAWN BY	STAFF	7/93
CHECKED BY	DMG	7/93

26 4720.901094

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CACTUS HILLS SUBDIVISION
PAVING IMPROVEMENTS
AGATE HILLS ROAD N.W. STA. 9+00.00 TO STA. 16+11.60

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.J. Bradley	8-17-93	WATER	N/A KWK	8-5-93
TRANSPORTATION	[illegible]	8-03-93	WASTE WATER	N/A KWK	8-5-93
HYDROLOGY	N/A RPC	8-4-93	N.M.U.I.		

PROJECT NO.	MAP NO.	SHEET	OF
4720.90	C13	10	22

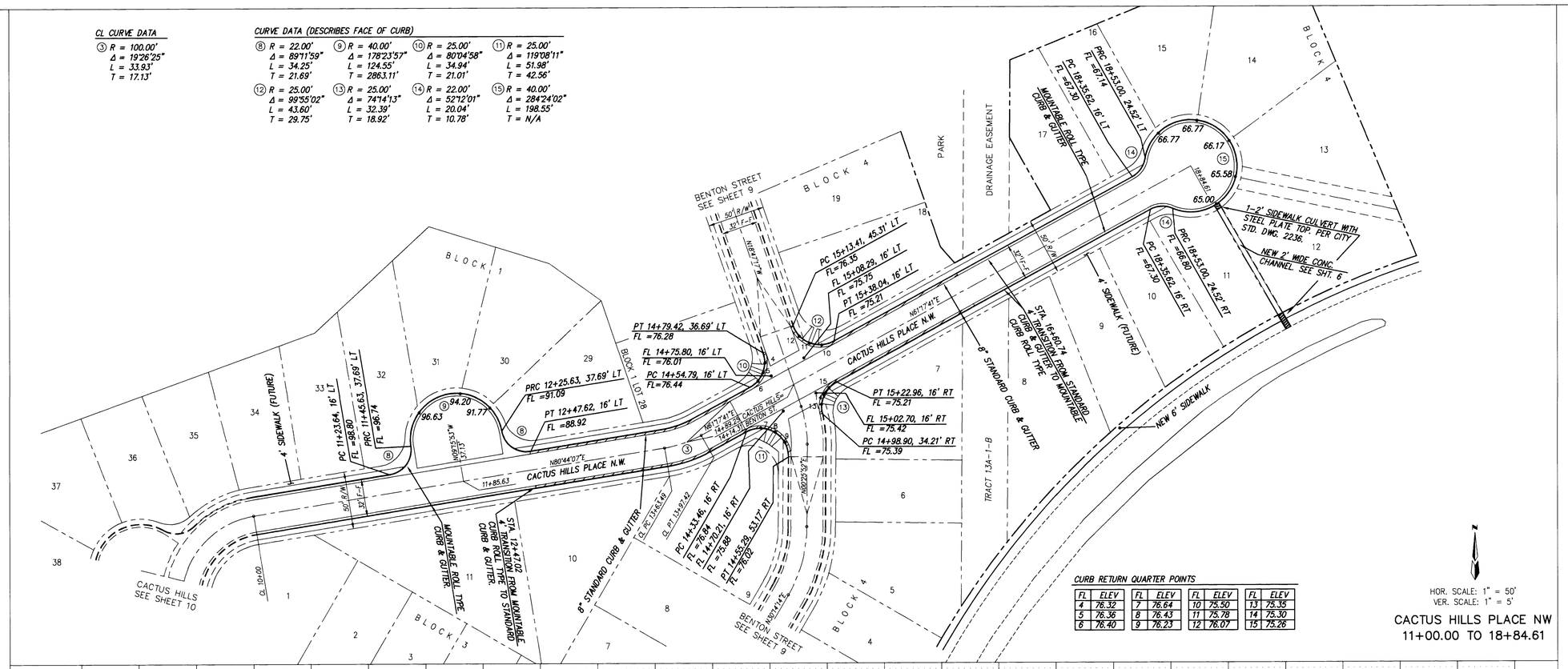
SCANNED BY
BY LASON

CL CURVE DATA

③ R = 100.00'
Δ = 19°26'25"
L = 33.93'
T = 17.13'

CURVE DATA (DESCRIBES FACE OF CURB)

⑧ R = 22.00' Δ = 89°11'59" L = 34.25' T = 21.69'	⑨ R = 40.00' Δ = 178°23'57" L = 124.55' T = 2863.11'	⑩ R = 25.00' Δ = 80°04'58" L = 34.94' T = 21.01'	⑪ R = 25.00' Δ = 119°08'11" L = 51.98' T = 42.56'
⑫ R = 25.00' Δ = 99°55'02" L = 43.60' T = 29.75'	⑬ R = 25.00' Δ = 74°14'13" L = 32.39' T = 18.92'	⑭ R = 22.00' Δ = 52°12'01" L = 20.04' T = 10.78'	⑮ R = 40.00' Δ = 284°24'02" L = 198.55' T = N/A

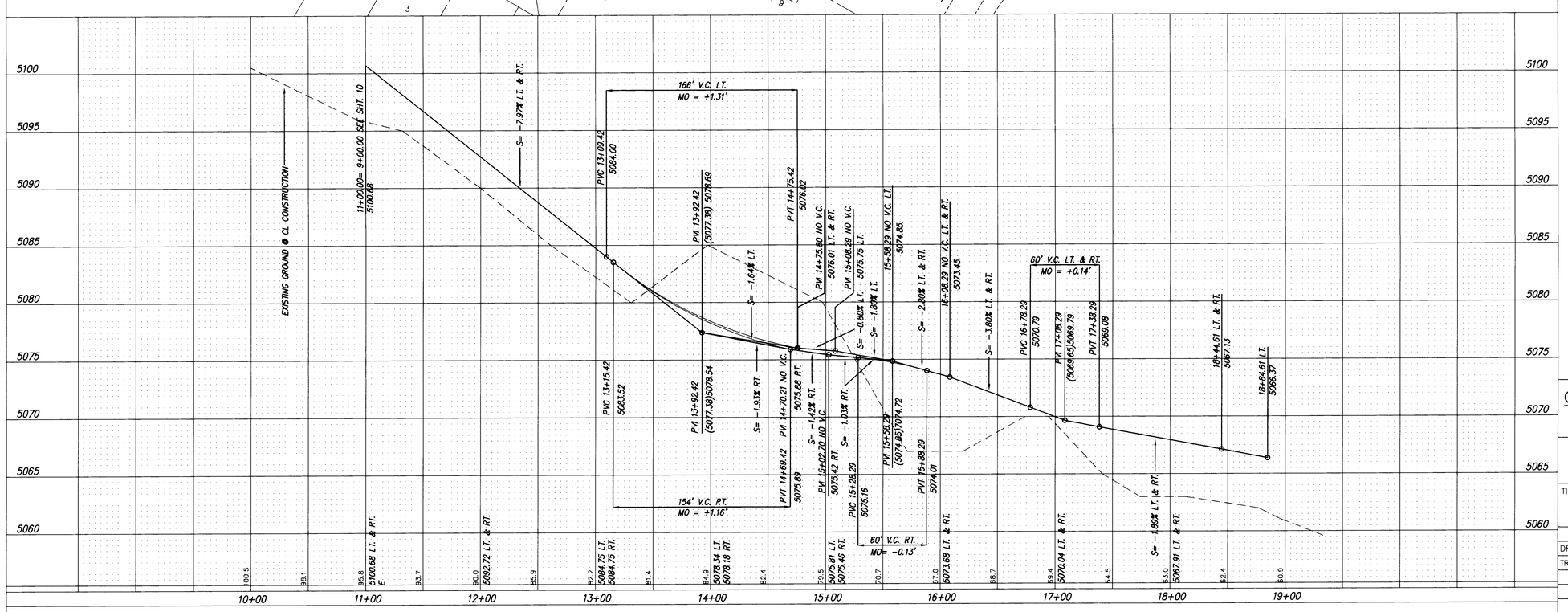


CURB RETURN QUARTER POINTS

FL	ELEV	FL	ELEV	FL	ELEV	FL	ELEV
4	76.32	7	76.64	10	75.50	13	75.35
5	76.36	8	76.43	11	75.78	14	75.30
6	76.40	9	76.23	12	76.07	15	75.26

HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'

CACTUS HILLS PLACE NW
11+00.00 TO 18+84.61



CHS\CACTUSP2

AS BUILT INFORMATION

CONTRACTOR M.C.C.
WORK STAKED BY Albert Surveying DATE 1-93
INSPECTOR'S ACCEPTANCE BY R.O. Spencer DATE 7-20-94
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

THE STATION IS LOCATED NEAR THE INTERSECTION OF ARROW AVE. AND BRYAN AVE. N.W. THE STATION IS A 3 1/4" ALUMINUM CAP RIVETED TO A PIPE PROTRUDING 0.1 FOOT ABOVE THE GROUND. AND IS STAMPED, "ACS 4-B13, 1996".
X=375,489.27, Y=1,525,104.55, Z=5169.511

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 8466 D. MARK GOODWIN & ASSOCIATES, INC.

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY	G.K.	DATE	7/93
DRAWN BY	STAFF	DATE	7/93
CHECKED BY	DMG	DATE	7/93

26 4720.901194

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CACTUS HILLS SUBDIVISION PAVING IMPROVEMENTS
CACTUS HILLS PLACE N.W.
STA. 11+00.00 TO STA. 18+84.61

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.J. Lindley	8-17-93	WATER	N/A	RWE 8-9-93
TRANSPORTATION	[illegible]	8-17-93	WASTE WATER	N/A	RWE 8-9-93
HYDROLOGY	N/A	8-4-93	N.M.U.I.		

PROJECT NO.	MAP NO.	SHEET	OF
4720.90	C13	11	22

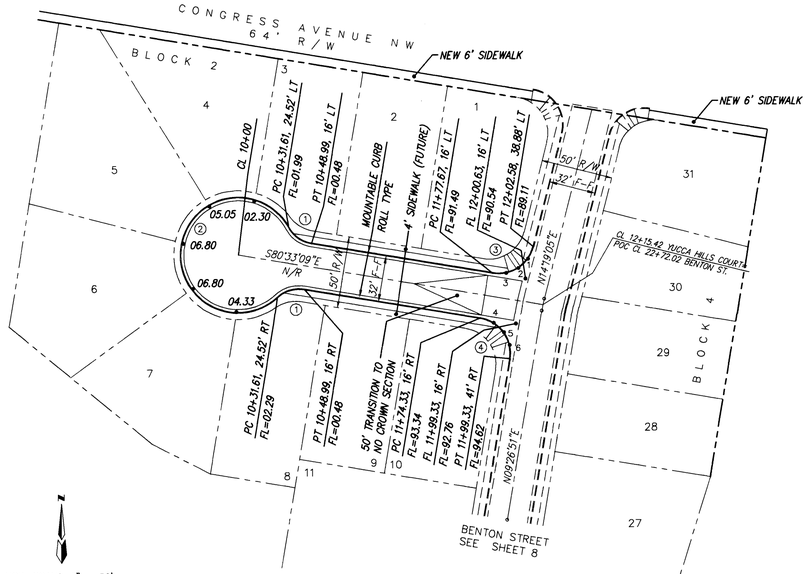
SCANNED BY
BY LASON

CURVE DATA (DESCRIBES FACE OF CURB)

①	②	③	④
R = 22.00'	R = 40.00'	R = 25.00'	R = 25.00'
Δ = 52°12'01"	Δ = 284°24'02"	Δ = 85°07'46"	Δ = 90°00'00"
L = 20.04'	L = 198.55'	L = 37.14'	L = 39.27'
T = 10.78'	T = N/A	T = 22.96'	T = 25.00'

CURB RETURN QUARTER POINTS

FL	ELEV	FL	ELEV
1	89.71	4	93.66
2	90.30	5	93.98
3	90.90	6	94.30

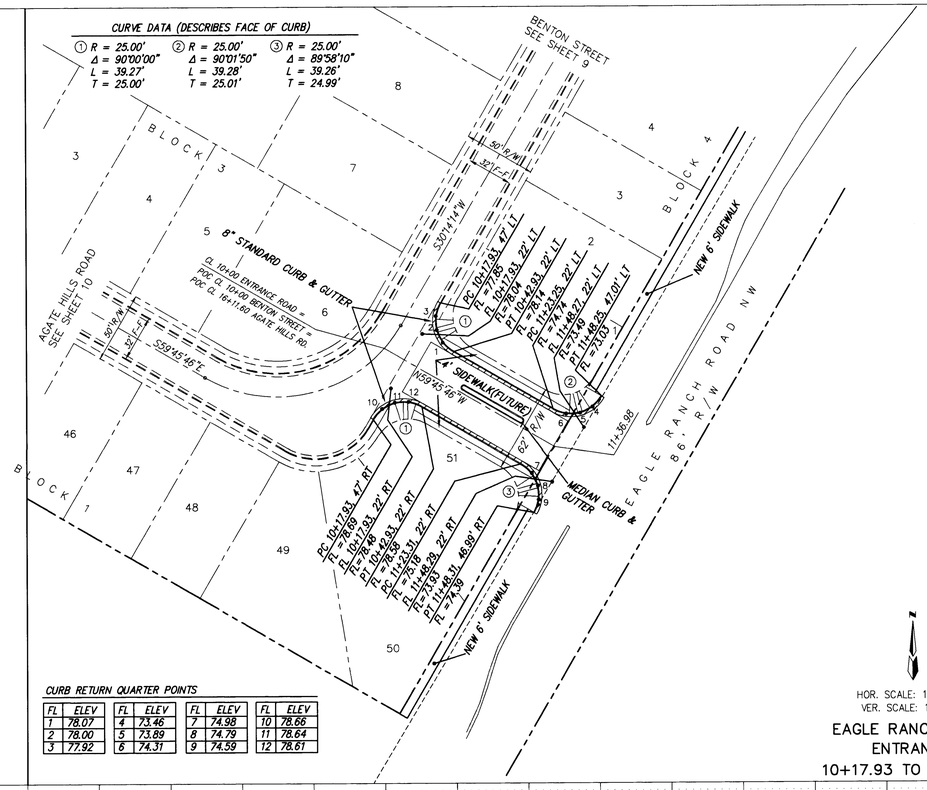


HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'

YUCCA HILLS COURT
9+60.00 TO 12+00.63

CURVE DATA (DESCRIBES FACE OF CURB)

①	②	③
R = 25.00'	R = 25.00'	R = 25.00'
Δ = 90°00'00"	Δ = 90°01'50"	Δ = 89°58'10"
L = 39.27'	L = 39.28'	L = 39.26'
T = 25.00'	T = 25.01'	T = 24.99'

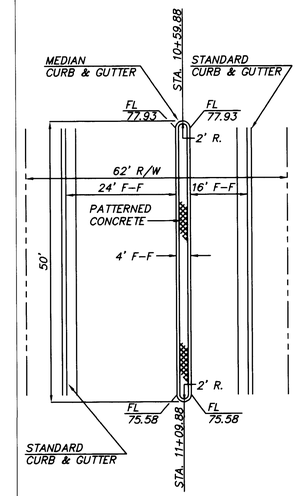


CURB RETURN QUARTER POINTS

FL	ELEV	FL	ELEV	FL	ELEV	FL	ELEV
1	78.07	4	73.46	7	74.98	10	78.66
2	78.00	5	73.89	8	74.79	11	78.64
3	77.92	6	74.31	9	74.59	12	78.61

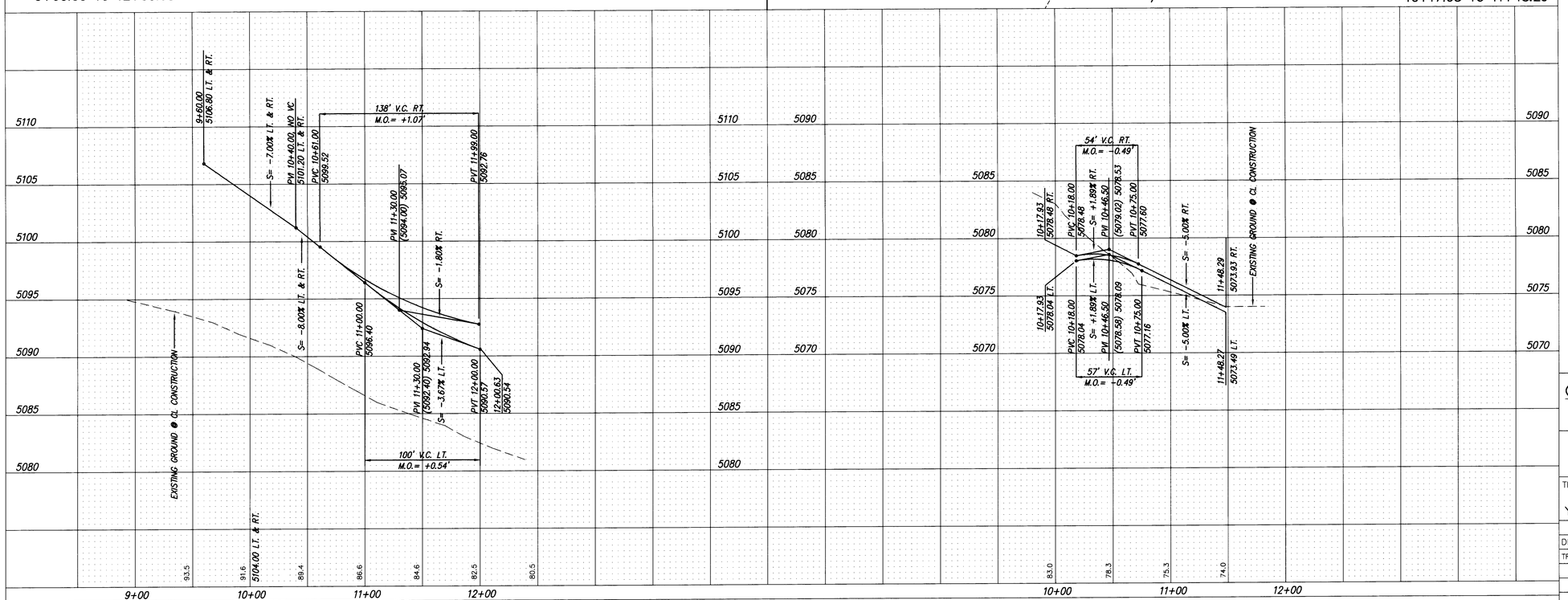
HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 5'

EAGLE RANCH ROAD
ENTRANCE
10+17.93 TO 11+48.29



EAGLE RANCH ROAD N.W.

ISLAND DETAIL
N.T.S.



CHS\YUCCAP

AS BUILT INFORMATION

CONTRACTOR M.C.C.
WORK STAKED BY Aldrich Surveying DATE 11-93
INSPECTOR'S ACCEPTANCE BY C.O. Spencer DATE 5-25-94
FIELD VERIFICATION BY DATE
CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

THE STATION IS LOCATED NEAR THE INTERSECTION OF ARROW AVE. AND BRYAN AVE. N.W. THE STATION IS A 3 1/4" ALUMINUM CAP RIVETED TO A PIPE PROTRUDING 0.1 FOOT ABOVE THE GROUND. AND IS STAMPED, "ACS 4-B13, 1986". X=375,489.27, Y=1,525,104.55, Z=5169.511

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

D. MARK GOODWIN NEW MEXICO 8949 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY	G.K	DATE	7/93
DRAWN BY	STAFF	DATE	7/93
CHECKED BY	DMG	DATE	7/93

26 4720.901294

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CACTUS HILLS SUBDIVISION
PAVING IMPROVEMENTS
YUCCA HILLS COURT AND EAGLE RANCH ROAD ENTRANCE

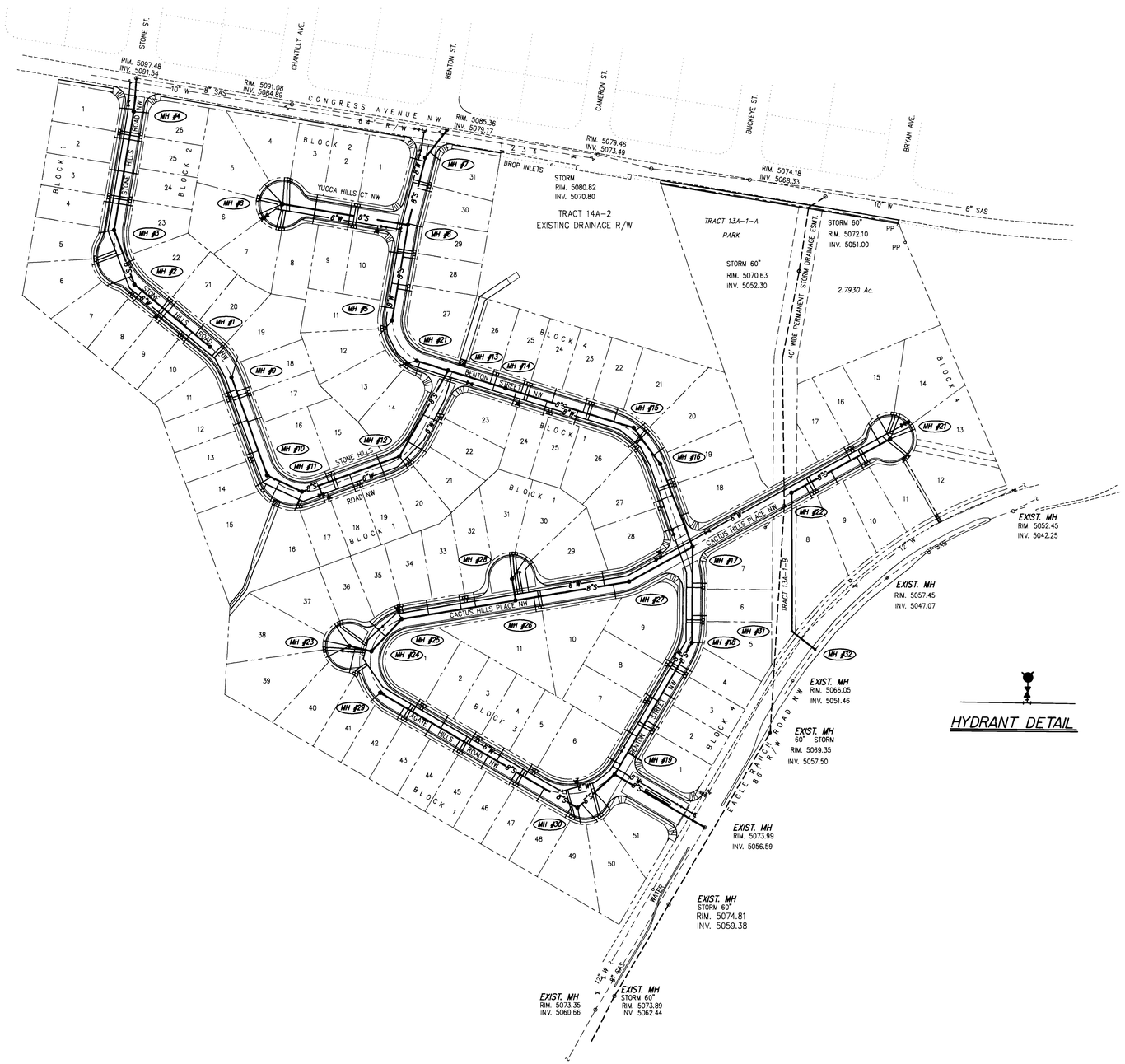
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	S.A. Goodwin	8-17-93	WATER	N/A RWK	8-9-93
TRANSPORTATION	D. Cook	8-03-93	WASTE WATER	N/A RWK	8-9-93
HYDROLOGY	N/A JPC	8-4-93	N.M.U.I.		

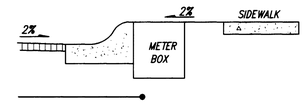
PROJECT NO.	MAP NO.	SHEET	OF
4720.90	C13	12	22

SCANNED BY
BY LASON

DROP INLETS

1. GRATE= 5082.24
   INV. = 5074.89
2. GRATE= 5081.90
   INV. = 5073.90
3. GRATE= 5081.52
   INV. = 5073.17
4. GRATE= 5081.10
   INV. = 5071.90





WATER METER PLACEMENT DETAIL

NTS

HYDRANT DETAIL

SCALE: 1" = 100'

26 4720.901394

AS BUILT INFORMATION

CONTRACTOR: M.C.C.

WORK INSPECTOR: Alicia Jaramillo DATE 11-93

ACCEPTANCE BY: R.D. Spencer DATE 5-10-94

FIELD VERIFICATION BY DATE

DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

THE STATION IS LOCATED NEAR THE INTERSECTION OF ARROW AVE., AND BRYAN AVE. N.W. THE STATION IS A 3 1/4" ALUMINUM CAP RIVETED TO A PIPE PROTRUDING 0.1 FOOT ABOVE THE GROUND. AND IS STAMPED, "ACS 4-B13, 1986". X=375,489.27, Y=1,525,104.55, Z=5169.511

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

D. MARK GOODWIN NEW MEXICO 6489 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY GJK	DATE 6/93	
DRAWN BY JMB	DATE 6/93	
CHECKED BY DMG	DATE 6/93	

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

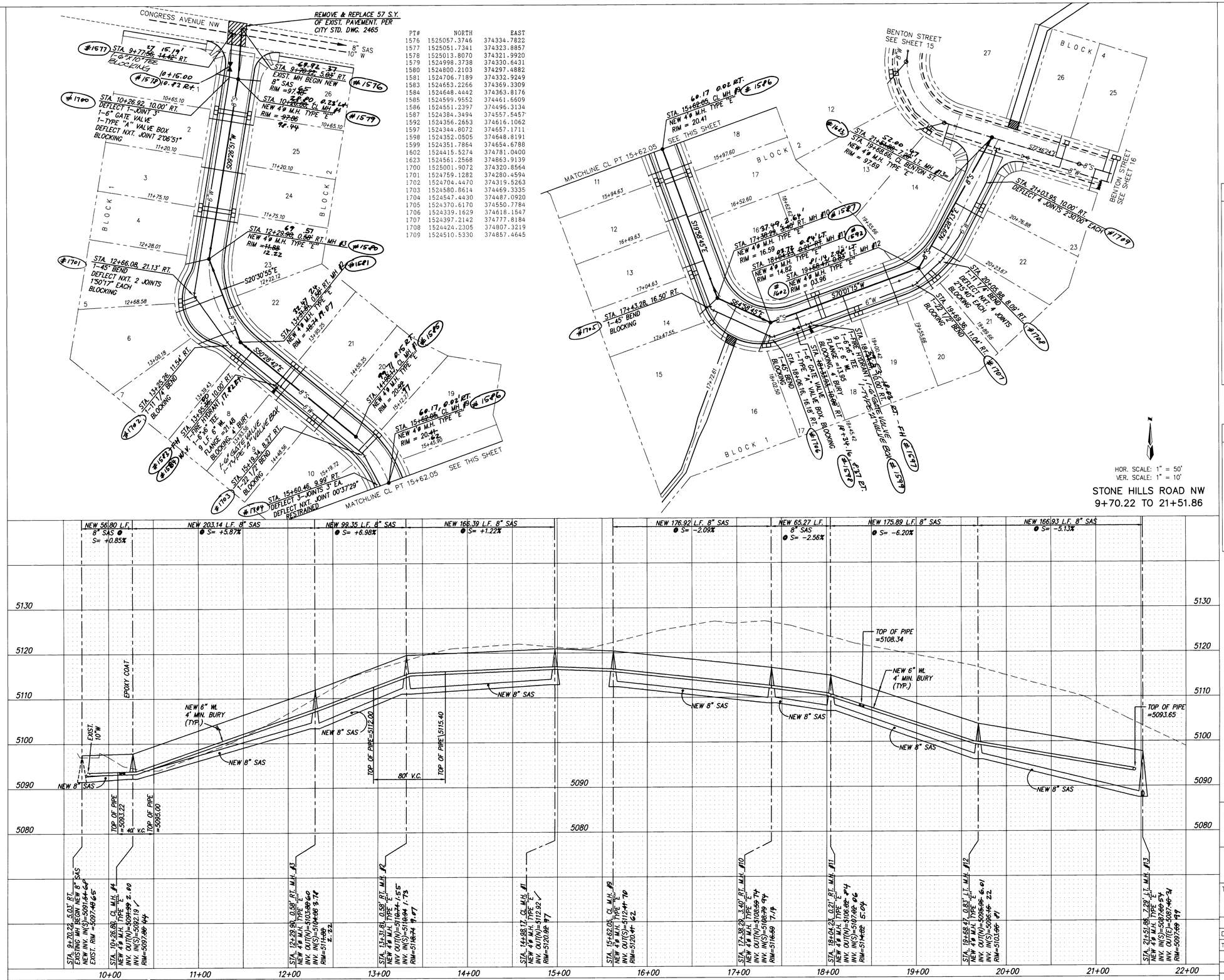
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CACTUS HILLS SUBDIVISION
MASTER UTILITY PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.J. Bockly	8-17-93	WATER	N/A RWK	8-4-93
TRANSPORTATION	N/A RWS	8-03-93	WASTE WATER	N/A RWK	8-4-93
HYDROLOGY	N/A RFC	8-4-93	N.M.U.I.		8-17-93

PROJECT NO.	MAP NO.	SHEET	OF
4720.90	C13	13	22

SCANNED BY LASON
CHS\MASTERU



PT#	NORTH	EAST
1576	1525057.3746	374334.7822
1577	1525051.7341	374323.8857
1578	1525013.8070	374321.9920
1579	1524998.3738	374330.6431
1580	1524800.2103	374297.4882
1581	1524706.7189	374332.9249
1583	1524653.2266	374369.3309
1584	1524648.4442	374363.8176
1585	1524599.9552	374461.6609
1586	1524551.2397	374496.3134
1587	1524384.3494	374557.5457
1592	1524356.2653	374616.1062
1597	1524344.8072	374657.1711
1598	1524352.0505	374648.8191
1599	1524351.7864	374654.6788
1602	1524415.5274	374781.0400
1623	1524561.2568	374863.9139
1700	1525001.9072	374320.8564
1701	1524759.1282	374280.4594
1702	1524704.4470	374319.5263
1703	1524580.8614	374469.3335
1704	1524547.4430	374487.0920
1705	1524370.6170	374550.7784
1706	1524339.1629	374618.1547
1707	1524397.2142	374777.8184
1708	1524424.2305	374807.3219
1709	1524510.5330	374857.4645

BLOCK 1

LOT	STA.	INV. ELEV.	LENGTH	INV. ELEV. AT MH
1	10+25	93.3	25.06	92.39
2	10+75	96.6	25.00	N/A
3	11+30	100.5	25.00	N/A
4	11+85	104.2	25.00	N/A
5	12+38	107.9	27.05	104.28
6	12+78	110.9	55.35	N/A
7	13+10	113.4	44.54	N/A
8	13+49	115.1	25.00	N/A
9	14+04	115.6	25.00	N/A
10	14+59	116.1	25.00	N/A
11	15+85	115.4	25.00	N/A
12	16+40	114.2	25.00	N/A
13	16+95	113.0	25.00	N/A
14	17+37	112.1	26.73	108.99
15	17+62	111.4	39.91	N/A
16	17+92	110.6	34.94	107.22
17	18+35	108.2	31.00	N/A
18	18+90	104.6	31.00	N/A
19	19+46	100.9	31.00	N/A
20	19+80	99.0	27.65	96.36
21	20+13	97.9	36.40	N/A
22	20+67	96.0	35.60	N/A

BLOCK 2

LOT	STA.	INV. ELEV.	LENGTH	INV. ELEV. AT MH
26	10+25	93.3	25.06	92.39
25	10+75	96.6	25.00	N/A
24	11+30	100.5	25.00	N/A
23	11+85	104.2	25.00	N/A
22	12+32	107.5	15.40	N/A
21	14+05	115.6	25.00	N/A
20	14+65	116.1	25.00	N/A
19	15+36	116.1	36.75	112.61
18	15+88	115.3	25.00	N/A
17	16+43	114.1	25.00	N/A
16	18+53	107.0	19.00	N/A
15	19+46	100.9	19.00	N/A

AS BUILT INFORMATION

CONTRACTOR M.C.C.
WORK STAKED BY Aldrich Surveying DATE 1-93
INSPECTOR'S ACCEPTANCE BY C.D. Spencer DATE 5-20-94
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

THE STATION IS LOCATED NEAR THE INTERSECTION OF ARROW AVE. AND BRYAN AVE. N.W. THE STATION IS A 3 1/4" ALUMINUM CAP RIVETED TO A PIPE PROTRUDING 0.1 FOOT ABOVE THE GROUND. AND IS STAMPED, "ACS 4-B13, 1986". X=375,489.27, Y=1,525,104.55, Z=5169.511

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

LEARK GOODWIN NEW MEXICO 8-4-93 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	G.J.K.	7/93
DRAWN BY	STAFF	7/93
CHECKED BY	DMG	7/93

26 4720.901494

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

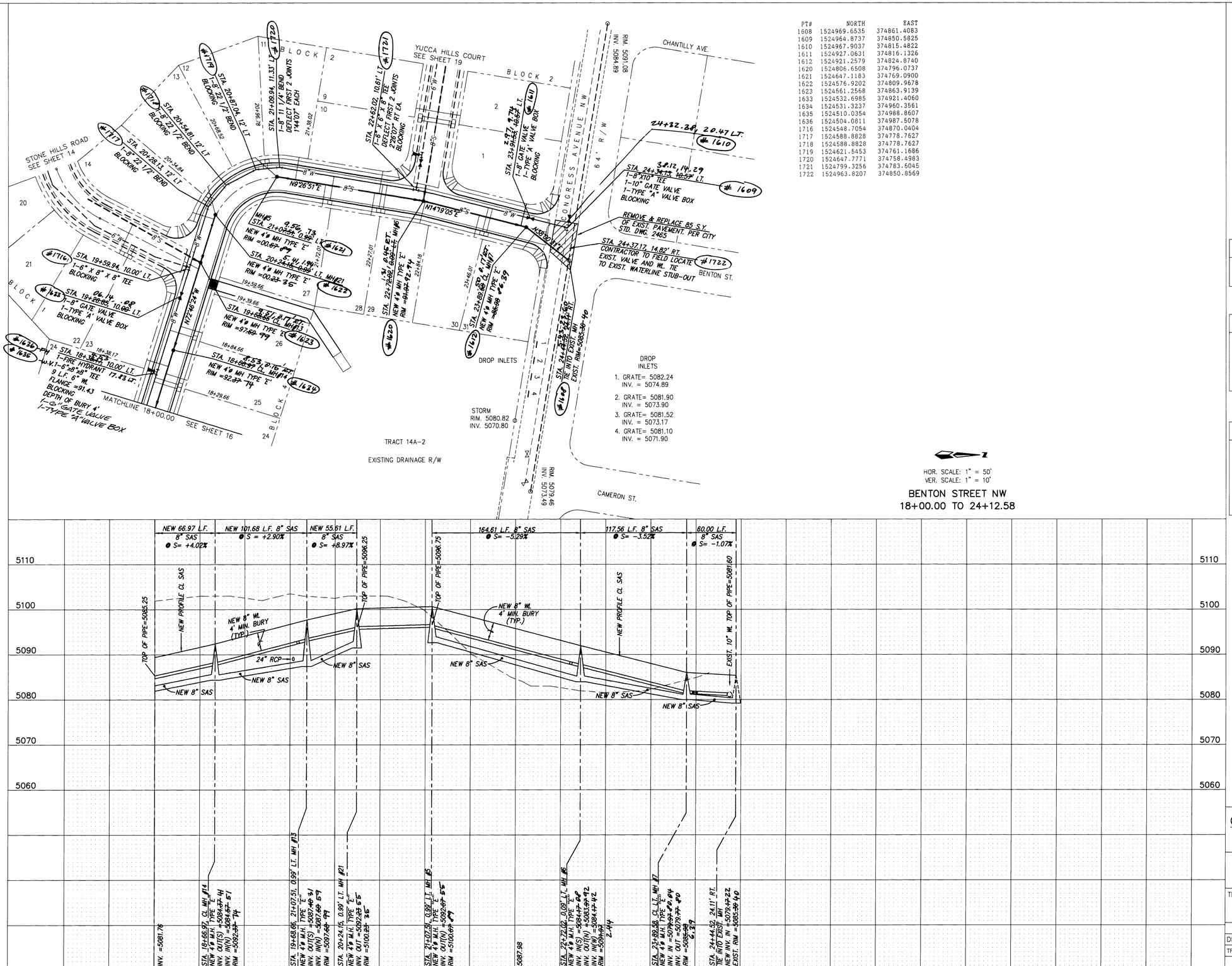
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CACTUS HILLS SUBDIVISION
UTILITY IMPROVEMENTS
STONE HILLS ROAD NW, STA. 9+70.22 TO STA. 21+51.86

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.J. Gordley	8-17-93	WATER	N/A	RWK 8-5-93
TRANSPORTATION	N/A RSS	8-03-93	WASTE WATER	N/A	RWK 8-5-93
HYDROLOGY	N/A JPC	8-4-93	N.M.U.I.		

PROJECT NO.	MAP NO.	SHEET	OF
4720.90	C13	14	22

SCANNED BY BY LASON



PT#	NORTH	EAST
1608	1524969.6535	374861.4083
1609	1524964.8737	374850.5825
1610	1524967.9037	374815.4822
1611	1524927.0631	374816.1326
1612	1524921.2579	374824.8740
1620	1524806.6508	374796.0737
1621	1524647.1183	374769.0900
1622	1524576.9202	374809.9678
1623	1524561.2568	374863.9139
1633	1524532.6985	374921.4060
1634	1524531.3237	374960.3561
1635	1524510.0354	374988.8607
1636	1524504.0811	374987.5078
1716	1524548.7054	374870.0404
1717	1524588.8828	374778.7627
1718	1524588.8828	374778.7627
1719	1524621.5453	374761.1686
1720	1524647.7771	374758.4983
1721	1524799.3256	374783.6045
1722	1524963.8207	374850.8569

HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 10'

BENTON STREET NW
18+00.00 TO 24+12.58

BLOCK 1

LOT	STA.	INV. ELEV.	LENGTH	INV. ELEV. AT MH
23	18+48	84.84	24'	N/A

BLOCK 2

LOT	STA.	INV. ELEV.	LENGTH	INV. ELEV. AT MH
14	20+11	92.20	24'	N/A
13	20+45	93.07	32'	92.43
12	20+87	93.51	32'	92.87
11	21+28	92.74	24'	N/A
10	22+22	87.97	24'	N/A
1	23+82	81.39	24'	N/A

BLOCK 4

LOT	STA.	INV. ELEV.	LENGTH	INV. ELEV. AT MH
25	18+40	84.44	24'	N/A
26	18+95	86.41	24'	N/A
27	21+62	90.94	24'	N/A
28	22+17	82.23	24'	N/A
29	22+74	85.05	24'	N/A
30	23+36	83.01	24'	N/A
31	24+02	80.77	24'	N/A

CHS\BENTONU2

AS BUILT INFORMATION

CONTRACTOR	M.C.C.		
WORK STAKED BY	Alderich Surveying	DATE	1-93
AS-BUILTS CHECKED BY	R.D. Spencer	DATE	5-26-94
ACCEPTANCE BY		DATE	
FIELD VERIFICATION BY		DATE	
DRAWINGS CORRECTED BY		DATE	

MICRO-FILM INFORMATION

RECORDED BY		DATE
NO.		

BENCH MARKS

THE STATION IS LOCATED NEAR THE INTERSECTION OF ARROW AVE. AND BRYAN AVE. N.W. THE STATION IS A 3 1/4" ALUMINUM CAP RIVETTED TO A PIPE PROTRUDING 0.1 FOOT ABOVE THE GROUND. AND IS STAMPED, "ACS 1-B13, 1986". X=375,489.27, Y=1,525,104.55, Z=5169.511

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

D. MARK GOODWIN NEW MEXICO 8949 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY	GJK	DATE	7/93
DRAWN BY	STAFF	DATE	7/93
CHECKED BY	DMG	DATE	7/93

26 4720.901594

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

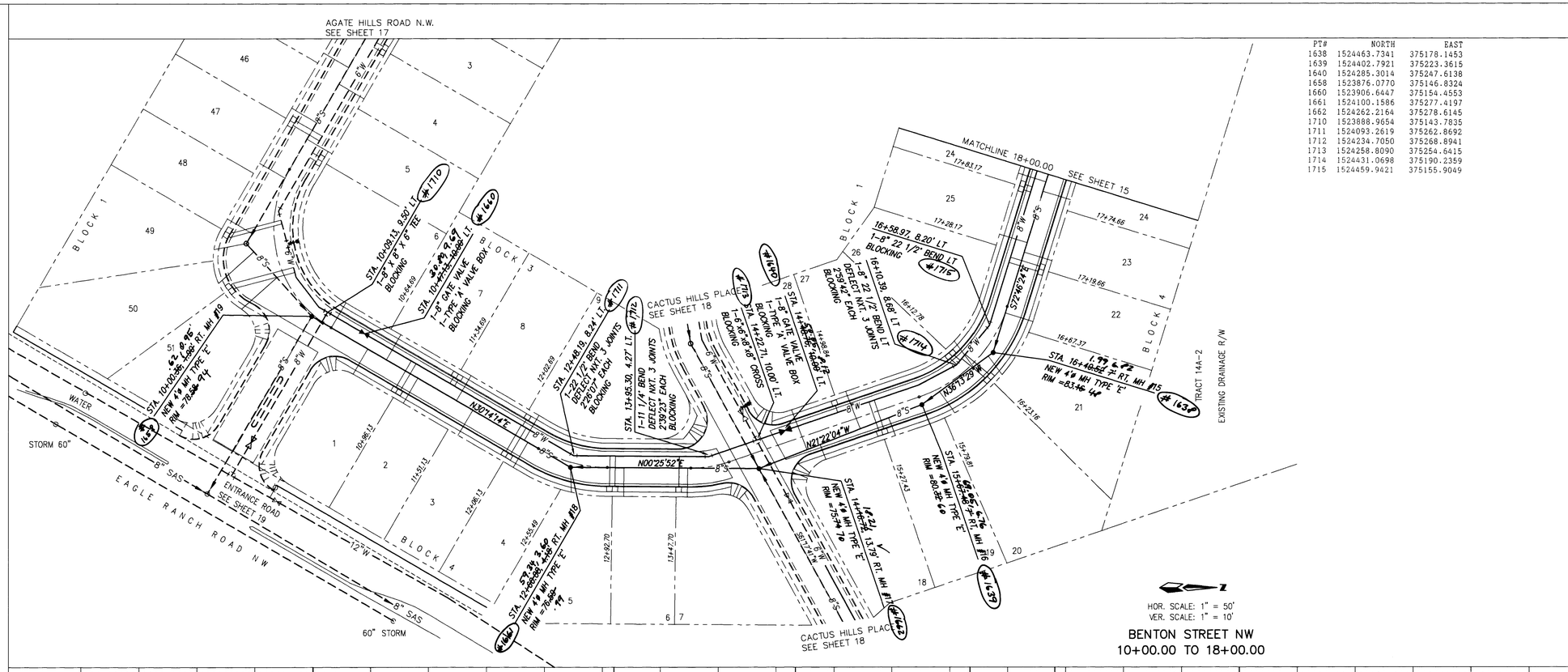
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CACTUS HILLS SUBDIVISION
UTILITY IMPROVEMENTS
BENTON STREET NW STA. 18+00.00 TO STA. 24+12.58

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		8-17-93	WATER	N/A	8-9-93
TRANSPORTATION	N/A		WASTE WATER	N/A	8-9-93
HYDROLOGY	N/A	8-4-93	N.M.U.I.		

PROJECT NO.	MAP NO.	SHEET	OF
4720.90	C13	15	22

SCANNED BY
BY LASON



PT#	NORTH	EAST
1638	1524463.7341	375178.1453
1639	1524402.7921	375223.3615
1640	1524285.3014	375247.6138
1658	1523876.0770	375146.8324
1660	1523906.6447	375154.4553
1661	1524100.1586	375277.4197
1662	1524262.2164	375278.6145
1710	1523888.9654	375143.7835
1711	1524093.2619	375262.8692
1712	1524234.7050	375268.8941
1713	1524258.8090	375254.6415
1714	1524431.0698	375190.2359
1715	1524459.9421	375155.9049

BLOCK 1

LOT	STA.	INV. ELEV.	LENGTH	INV. ELEV. AT MH
28	14+59	69.88	36	N/A
27	15+09	71.67	34	N/A
26	16+23	75.79	30	N/A
25	17+38	80.42	24	N/A
24	17+93	82.63	24	N/A

BLOCK 3

LOT	STA.	INV. ELEV.	LENGTH	INV. ELEV. AT MH
6	10+19	63.74	24	N/A
7	10+75	64.60	24	N/A
8	11+45	65.30	24	N/A
9	12+13	65.98	24	N/A

BLOCK 4

LOT	STA.	INV. ELEV.	LENGTH	INV. ELEV. AT MH
1	10+56	64.11	24	N/A
2	11+06	64.91	24	N/A
3	11+61	65.46	24	N/A
4	12+16	66.01	24	N/A
5	12+65	65.75	20	65.35
6	13+03	66.73	24	N/A
7	13+58	67.28	24	N/A
18	14+73	69.95	14	N/A
19	15+37	72.49	18	N/A
20	15+90	74.49	24	N/A
21	16+33	76.12	20	N/A
22	16+77	77.97	24	N/A
23	17+30	80.10	24	N/A
24	17+85	82.31	24	N/A

AS BUILT INFORMATION

CONTRACTOR M.C.C. DATE 11-93
WORK STAKED BY Alarid Surveying DATE 4-28-94
INSPECTOR'S ACCEPTANCE BY D.O. Spencer DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

THE STATION IS LOCATED NEAR THE INTERSECTION OF ARROW AVE. AND BRYAN AVE. N.W. THE STATION IS A 3 1/4" ALUMINUM CAP RIVETED TO A PIPE PROTRUDING 0.1 FOOT ABOVE THE GROUND. AND IS STAMPED, "ACS 4-B13, 1986". X=375,489.27, Y=1,525,104.55, Z=5169.511

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

D. MARK GOODWIN NEW MEXICO 8948 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

		DATE
DESIGNED BY	GJK	7/93
DRAWN BY	STAFF	7/93
CHECKED BY	DMG	7/93

26 4720.901694

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

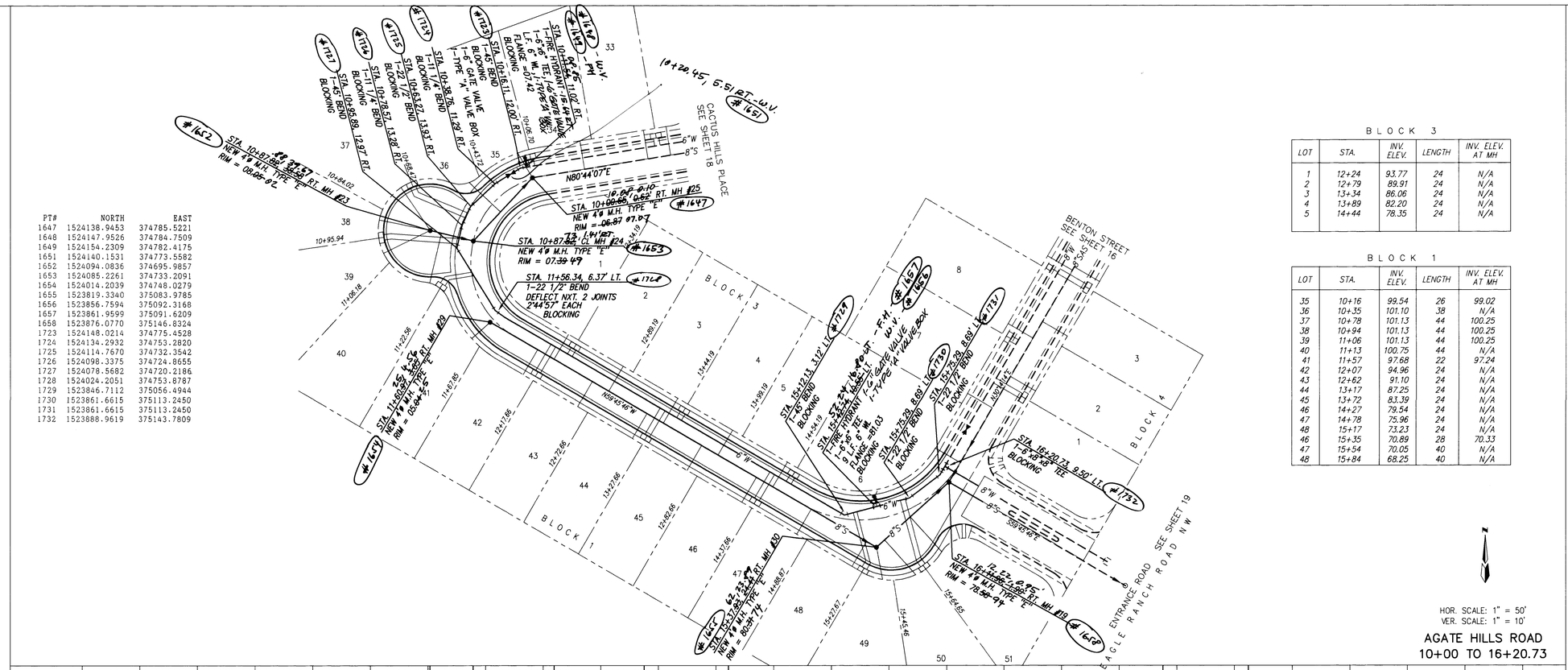
TITLE: CACTUS HILLS SUBDIVISION
UTILITY IMPROVEMENTS
BENTON STREET NW STA. 10+00.00 TO STA. 18+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.J. Cordell	8-17-93	WATER	N/A	RWK 8-9-93
TRANSPORTATION	N/A RAC	8-10-93	WASTE WATER	N/A	RWK 8-9-93
HYDROLOGY	N/A PPC	8-4-93	N.M.U.I.		

CHS\BENTONU1

PROJECT NO.	MAP NO.	SHEET	OF
4720.90	C13	16	22

SCANNED BY
BY LASON



PT#	NORTH	EAST
1647	1524138.9453	374785.5221
1648	1524147.9526	374784.7509
1649	1524154.2309	374782.4175
1651	1524140.1531	374773.5582
1652	1524094.0836	374695.9857
1653	1524085.2261	374733.2091
1654	1524014.2039	374748.0279
1655	1523819.3340	375083.9785
1656	1523856.7594	375092.3168
1657	1523861.9599	375091.6209
1658	1523876.0770	375146.8324
1723	1524148.0214	374775.4528
1724	1524134.2932	374753.2820
1725	1524114.7670	374732.3542
1726	1524098.3375	374724.8655
1727	1524078.5682	374720.2186
1728	1524024.2051	374753.8787
1729	1523846.7112	375056.4944
1730	1523861.6615	375113.2450
1731	1523861.6615	375113.2450
1732	1523888.9619	375143.7809

BLOCK 3

LOT	STA.	INV. ELEV.	LENGTH	INV. ELEV. AT MH
1	12+24	93.77	24	N/A
2	12+79	89.91	24	N/A
3	13+34	86.06	24	N/A
4	13+89	82.20	24	N/A
5	14+44	78.35	24	N/A

BLOCK 1

LOT	STA.	INV. ELEV.	LENGTH	INV. ELEV. AT MH
35	10+16	99.54	26	99.02
36	10+35	101.10	38	N/A
37	10+78	101.13	44	100.25
38	10+94	101.13	44	100.25
39	11+06	101.13	44	100.25
40	11+13	100.75	44	N/A
41	11+57	97.68	22	97.24
42	12+07	94.96	24	N/A
43	12+62	91.10	24	N/A
44	13+17	87.25	24	N/A
45	13+72	83.39	24	N/A
46	14+27	79.54	24	N/A
47	14+78	75.96	24	N/A
48	15+17	73.23	24	N/A
46	15+35	70.89	28	70.33
47	15+54	70.05	40	N/A
48	15+84	68.25	40	N/A

HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 10'

AGATE HILLS ROAD
10+00 TO 16+20.73

CHS\CACTUSU1

AS BUILT INFORMATION
CONTRACTOR M.C.C. DATE 11-93
WORK STAKED BY Aldrich Survey DATE 5-2094
INSPECTOR'S ACCEPTANCE BY C.D. Spencer DATE
FIELD VERIFICATION DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
THE STATION IS LOCATED NEAR THE INTERSECTION OF ARROW AVE. AND BRYAN AVE. N.W. THE STATION IS A 3 1/4" ALUMINUM CAP RIVETTED TO A PIPE PROTRUDING 0.1 FOOT ABOVE THE GROUND. AND IS STAMPED, "ACS 4-B13, 1986".
X=375,489.27, Y=1,525,104.55, Z=5163.511

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
MARK GOODWIN NEW MEXICO 8448 REGISTERED PROFESSIONAL ENGINEER
4/23/93

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY	GJK	DATE 7/93
DRAWN BY	STAFF	DATE 7/93
CHECKED BY	DMG	DATE 7/93

26 4720.901794

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

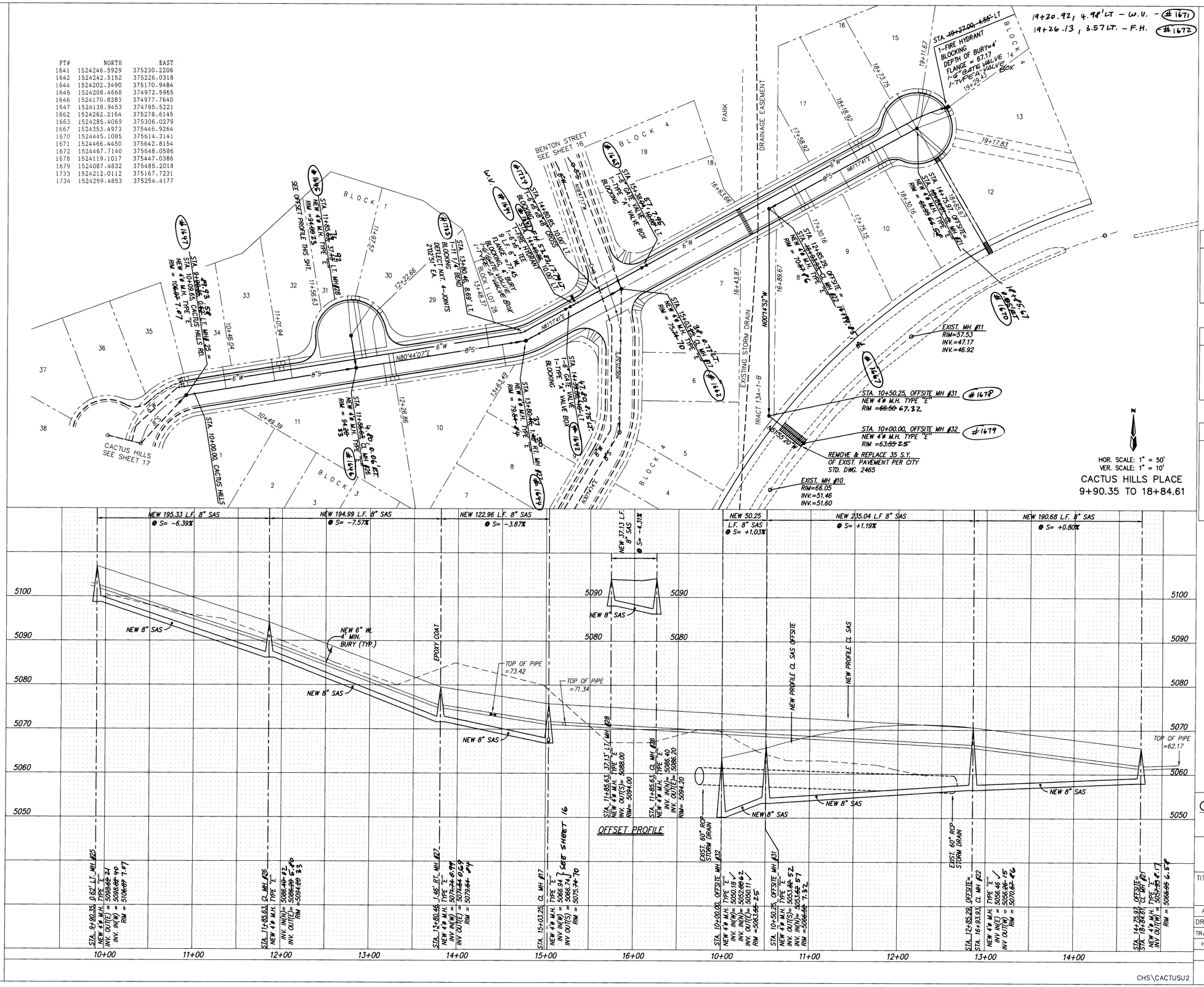
TITLE: CACTUS HILLS SUBDIVISION
UTILITY IMPROVEMENTS
AGATE HILLS ROAD STA. 10+00.00 TO STA. 16+20.73

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.J. Goodwin	8-17-93	WATER	N/A KWK	8-9-93
TRANSPORTATION	N/A CWO	8-03-93	WASTE WATER	N/A KWK	8-9-93
HYDROLOGY	N/A	8-4-93	N.M.U.I.		

PROJECT NO.	MAP NO.	SHEET	OF
4720.90	C13	17	22

SCANNED BY
BY LASON

PT#	NORTH	EAST
1641	1524246.5929	375230.2206
1642	1524242.5152	375226.0318
1644	1524202.3490	375170.9484
1645	1524208.4668	374972.5965
1646	1524170.8283	374977.7640
1647	1524138.9453	374785.5221
1662	1524262.2164	375278.6145
1663	1524285.4069	375306.0279
1667	1524353.4973	375446.9264
1670	1524445.1085	375614.3141
1671	1524466.4450	375642.8154
1672	1524467.7140	375648.0586
1678	1524119.1017	375447.0386
1679	1524087.4832	375485.2018
1733	1524212.0112	375167.7231
1734	1524259.4853	375254.4177



BLOCK 1

LOT	STA.	INV. ELEV.	LENGTH	INV. ELEV. AT MH
29	13+38	78.2	25.00	N/A
30	12+16	87.4	45.00	88.20
31	11+88	89.5	45.00	8.20
32	11+12	94.4	25.00	N/A
33	10+92	95.7	25.00	N/A
34	10+36	99.4	25.00	N/A

BLOCK 3

LOT	STA.	INV. ELEV.	LENGTH	INV. ELEV. AT MH
11	12+17	87.3	25.00	N/A
10	13.53	77.1	25.00	N/A

BLOCK 4

LOT	STA.	INV. ELEV.	LENGTH	INV. ELEV. AT MH
17	18+09	63.7	25.00	N/A
16	18+64	62.7	25.00	N/A
15	18+83	62.5	45.00	58.15
14	19+19	62.7	45.00	58.15
13	19+29	62.1	45.00	58.15
12	19+00	61.0	45.00	58.15
11	18+40	63.2	25.00	N/A
10	17+85	64.2	25.00	N/A
9	17+40	65.0	25.00	N/A
8	17+00	66.0	25.00	N/A

AS BUILT INFORMATION
CONTRACTOR M.C.C.
WORK STAKED BY Aldaco Surveying DATE 11-93
FIELD WORK VERIFIED BY D.D. Spencer DATE 12-94
ACCEPTANCE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
THE STATION IS LOCATED NEAR THE INTERSECTION OF ARROW AVE. AND BRYAN AVE. N.W. THE STATION IS A 3 1/4" ALUMINUM CAP RIVETED TO A PIPE PROTRUDING 0.1 FOOT ABOVE THE GROUND, AND IS STAMPED, "ACS 4-B13, 1986".
X=375,489.27, Y=1,525,104.55, Z=5169.511

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY

REVISIONS

		DATE
DESIGN		
DESIGNED BY	GJK	6/93
DRAWN BY	STAFF	6/93
CHECKED BY	DMG	6/93

26 4720.901894

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

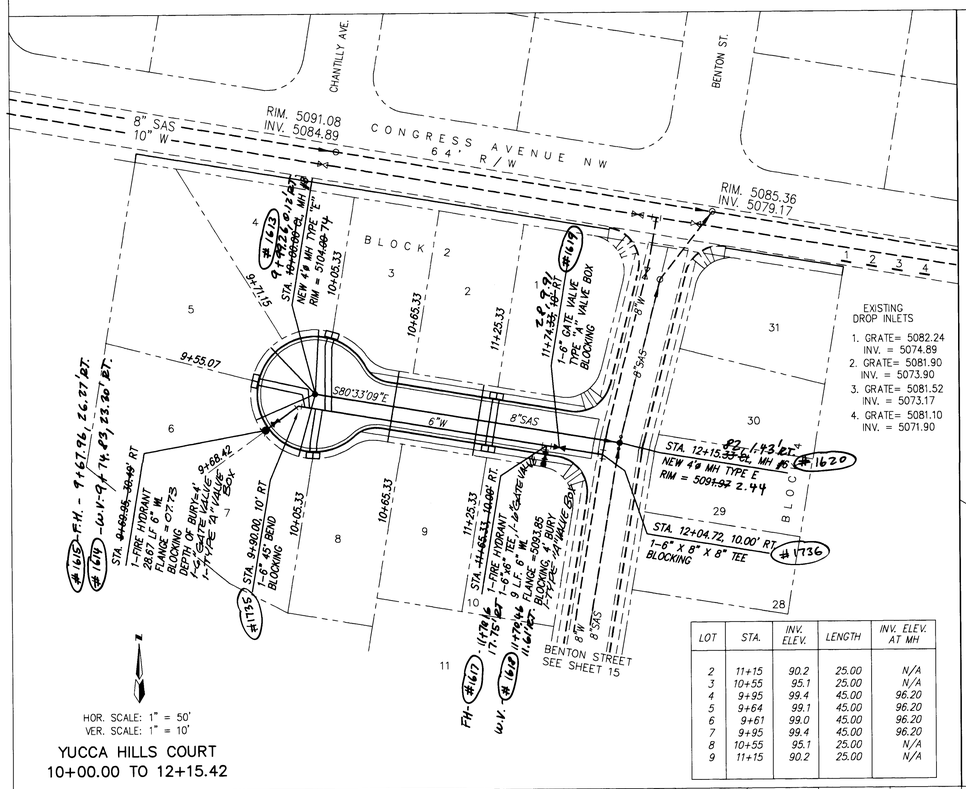
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CACTUS HILLS SUBDIVISION UTILITY IMPROVEMENTS
CACTUS HILLS PLACE NW
STA. 9+90.35 TO STA. 18+84.61

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.A. Gallegos	8-17-93	WATER	N/A	RWK 8-9-93
TRANSPORTATION	N/A	8-3-93	WASTE WATER	N/A	RWK 8-9-93
HYDROLOGY	N/A	8-4-93	N.M.U.I.		

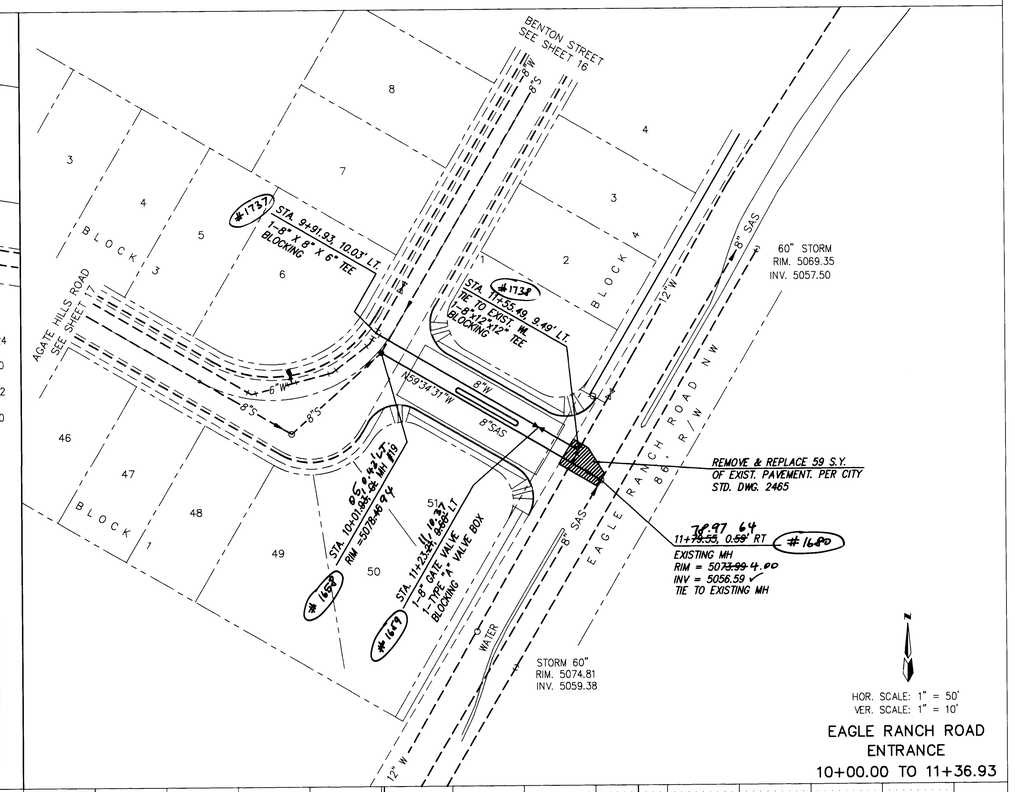
PROJECT NO.	MAP NO.	SHEET	OF
4720.90	C13	18	22

SCANNED BY
BY LASON



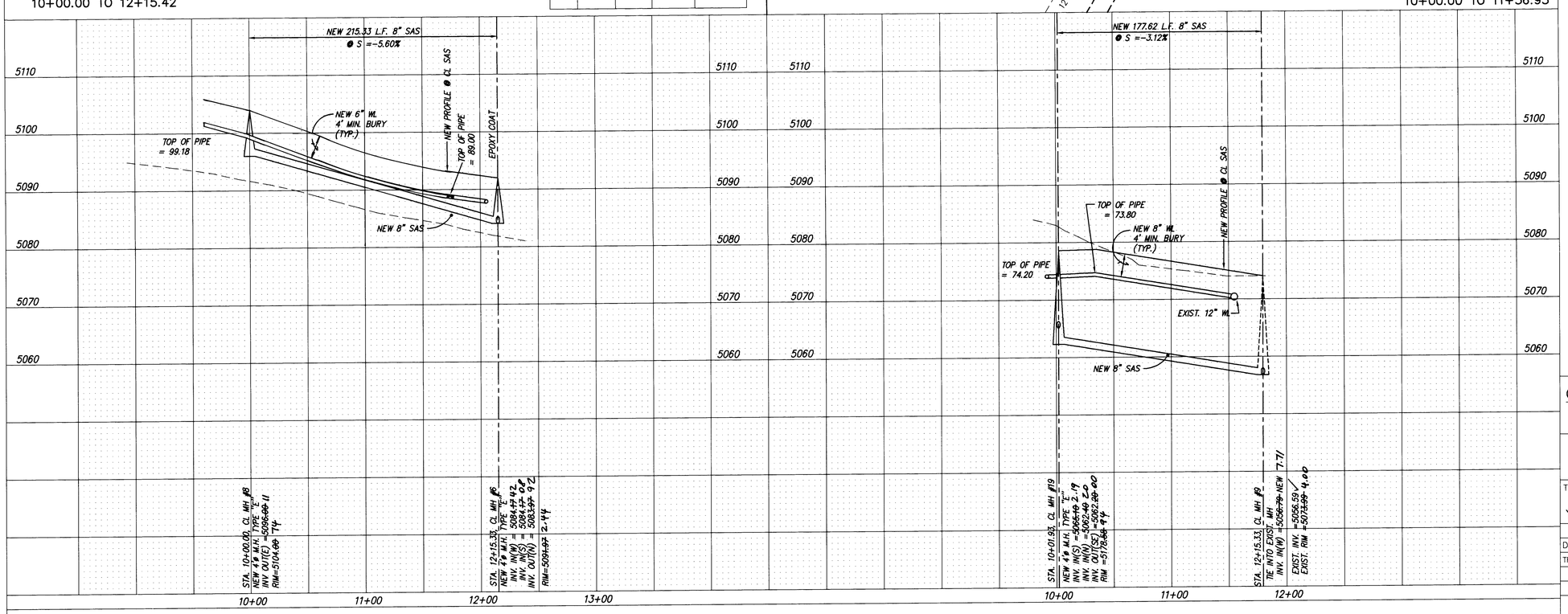
YUCCA HILLS COURT
10+00.00 TO 12+15.42

LOT	STA.	INV. ELEV.	LENGTH	INV. ELEV. AT MH
2	11+15	90.2	25.00	N/A
3	10+55	95.1	25.00	N/A
4	9+95	99.4	45.00	96.20
5	9+64	99.1	45.00	96.20
6	9+61	99.0	45.00	96.20
7	9+95	99.4	45.00	96.20
8	10+55	95.1	25.00	N/A
9	11+15	90.2	25.00	N/A



EAGLE RANCH ROAD
ENTRANCE
10+00.00 TO 11+36.93

PT#	NORTH	EAST
1613	1524843.4847	374582.6716
1614	1524824.6327	374554.7653
1615	1524822.8353	374547.5038
1617	1524798.0438	374748.3587
1618	1524804.0552	374749.6625
1619	1524805.1077	374753.7120
1620	1524806.6508	374796.0737
1658	1523876.0770	375146.8324
1659	1523823.6327	375257.2930
1680	1523785.5657	375300.0104
1735	1524835.2630	374571.9126
1736	1524800.0181	374783.7202
1737	1523888.9697	375143.7886
1738	1523806.1374	375284.8240



CHS\YUCCAU

26 4720.901994

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CACTUS HILLS SUBDIVISION
UTILITY IMPROVEMENTS
YUCCA HILLS COURT AND EAGLE RANCH ROAD ENTRANCE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.J. Gooby	8-17-93	WATER	N/A RWK	8-9-93
TRANSPORTATION	N/A RCH	8-03-93	WASTE WATER	N/A RWK	8-9-93
HYDROLOGY	N/A JPC	8-4-93	N.M.U.I.		

PROJECT NO.	MAP NO.	SHEET	OF
4720.90	C13	19	22

AS BUILT INFORMATION
CONTRACTOR M.C.C. DATE 11-93
WORK STAKED BY Aldrich Surveying DATE 5-20-96
INSPECTOR'S DISTANCE BY C.D. Spencer
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
THE STATION IS LOCATED NEAR THE INTERSECTION OF ARROW AVE. AND BRYAN AVE. N.W. THE STATION IS A 3 1/4" ALUMINUM CAP RIVETED TO A PIPE PROTRUDING 0.1 FOOT ABOVE THE GROUND. AND IS STAMPED, "ACS 4-B13, 1986". X=375,489.27, Y=1,525,104.55, Z=5169.511

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

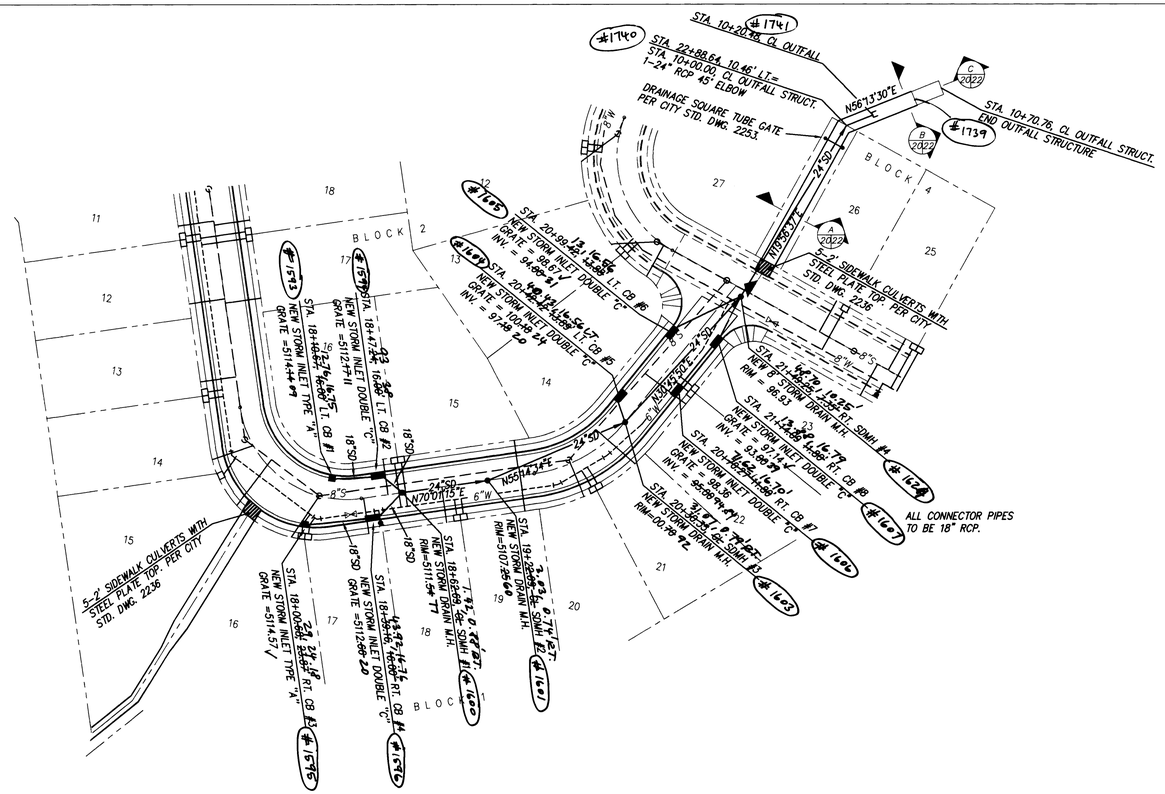
ENGINEER'S SEAL
D. MARK GOODWIN NEW MEXICO 9983 REGISTERED PROFESSIONAL ENGINEER
8/18/93

NO.	DATE	REMARKS	BY

REVISIONS

		DATE
DESIGNED BY	GJK	6/93
DRAWN BY	STAFF	6/93
CHECKED BY	DMG	6/93

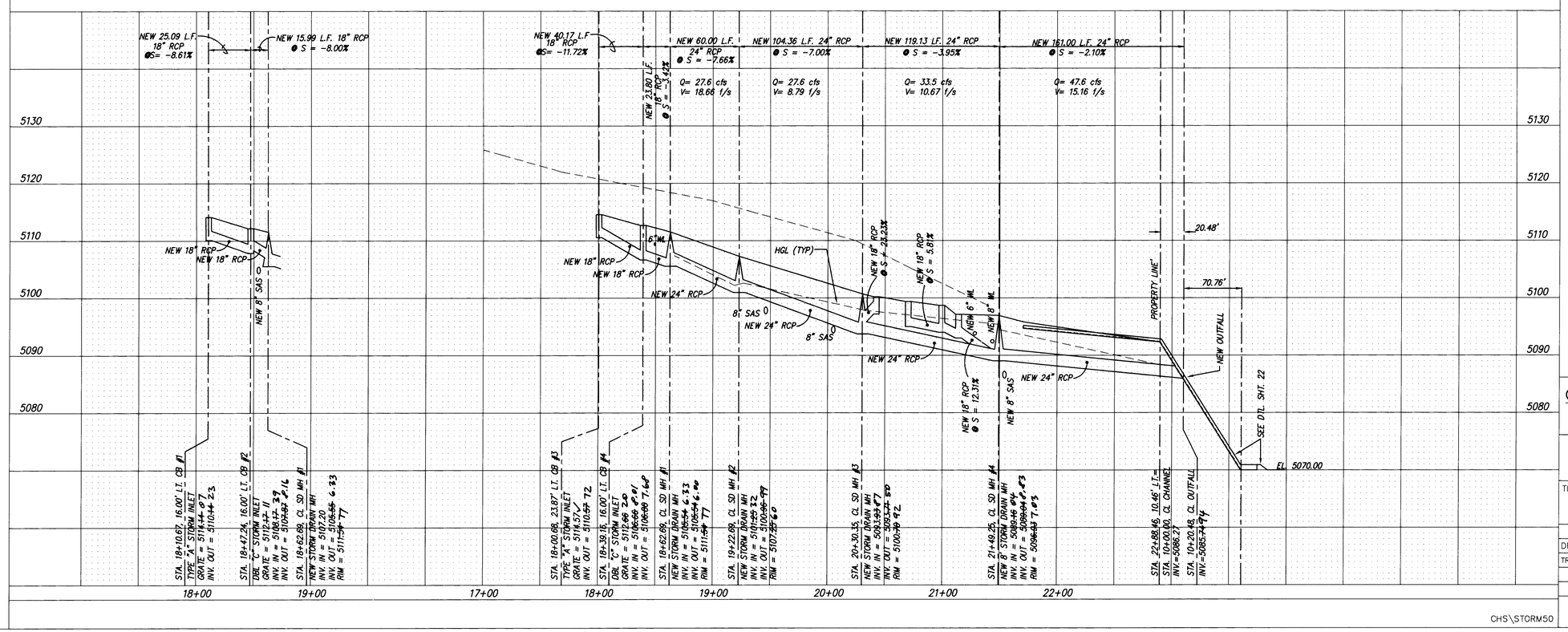
SCANNED BY
BY LASON



PT#	NORTH	EAST
1593	1524372.1989	374623.9856
1594	1524380.0152	374653.3024
1595	1524331.6306	374610.2392
1596	1524347.4965	374660.8661
1600	1524368.4053	374671.8831
1601	1524389.5814	374729.7360
1603	1524449.9426	374815.9357
1604	1524466.2030	374804.7920
1605	1524518.3965	374831.6385
1606	1524478.7214	374848.6351
1607	1524516.2560	374868.0441
1624	1524550.2135	374878.1646
1739	1524726.0524	374984.0259
1740	1524684.1207	374923.7693
1741	1524695.5062	374940.7928

HOR. SCALE: 1" = 50'
VER. SCALE: 1" = 10'

STONE STREET NW
STORM DRAIN IMPROVEMENTS
& OUTFALL STRUCTURE



CHS\STORM50

AS BUILT INFORMATION
CONTRACTOR M.C.C.
WORK SUBSECTION'S ACCEPTANCE BY R.D. Spencer DATE 5-20-94
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
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X=375,489.27, Y=1,525,104.55, Z=5168.511

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
D. MARK GOODWIN NEW MEXICO 8946 REGISTERED PROFESSIONAL ENGINEER
8-9-93

26 4720.902094

NO.	DATE	REMARKS	BY

REVISIONS

DESIGNED BY	GJK	DATE	7/93
DRAWN BY	STAFF	DATE	7/93
CHECKED BY	DMG	DATE	7/93

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

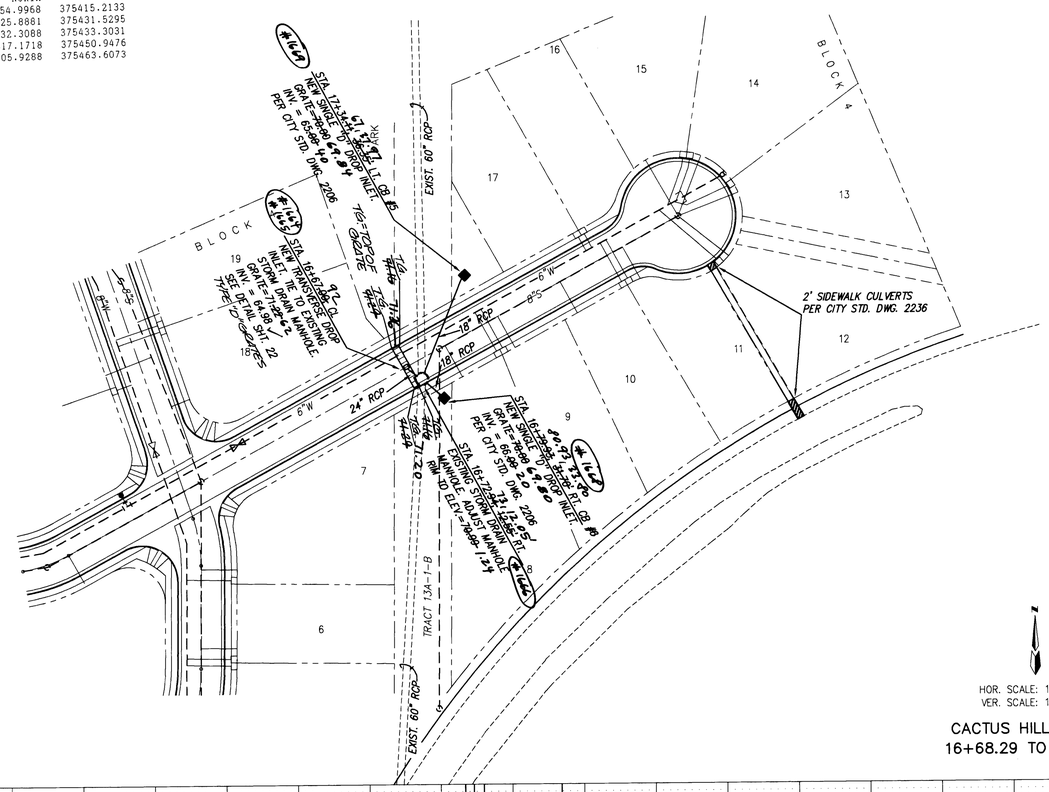
TITLE: CACTUS HILLS SUBDIVISION
STORM DRAIN IMPROVEMENTS
STONE STREET NW & OUTFALL STRUCTURE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.A. Goodley	8-12-93	WATER	N/A	RWE 8-9-93
TRANSPORTATION	N/A	8-3-93	WASTE WATER	N/A	RWE 8-9-93
HYDROLOGY	Hunter	8-9-93	N.M.U.I.		

PROJECT NO.	MAP NO.	SHEET	OF
4720.90	C13	20	22

SCANNED BY
BY LASON

PT#	NORTH	EAST
1664	1524354.9968	375415.2133
1665	1524325.8881	375431.5295
1666	1524332.3088	375433.3031
1668	1524317.1718	375450.9476
1669	1524405.9288	375463.6073



CACTUS HILLS PLACE
16+68.29 TO 17+34.11

CHS\OFFSITE

AS BUILT INFORMATION
CONTRACTOR M.C.S.
WORK STAKED BY Aldrich Surveying DATE 1-93
INSPECTOR'S ACCEPTANCE BY C.D. Spencer DATE 5-6-94
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

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SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
D. MARK GOODWIN NEW MEXICO 8948 REGISTERED PROFESSIONAL ENGINEER
4/23/93

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	G.K.	7/93
DRAWN BY	STAFF	7/93
CHECKED BY	DMG	7/93

26 4720.902194

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

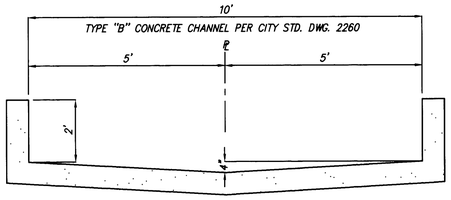
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CACTUS HILLS SUBDIVISION
STORM DRAIN IMPROVEMENTS
CACTUS HILLS PL. STA. 16+68.29 TO STA. 17+34.11

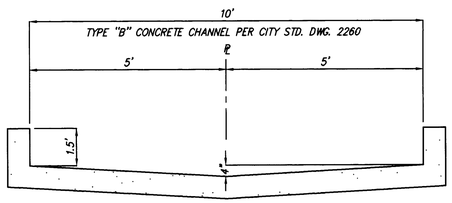
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.J. Bailey	6-17-93	WATER	N/A RWK	6-5-93
TRANSPORTATION	N.E.R.	8-03-93	WASTE WATER	N/A RWK	6-5-93
HYDROLOGY	Houston	8-9-93	N.M.U.I.		

PROJECT NO.	MAP NO.	SHEET	OF
4720.90	C13	21	22

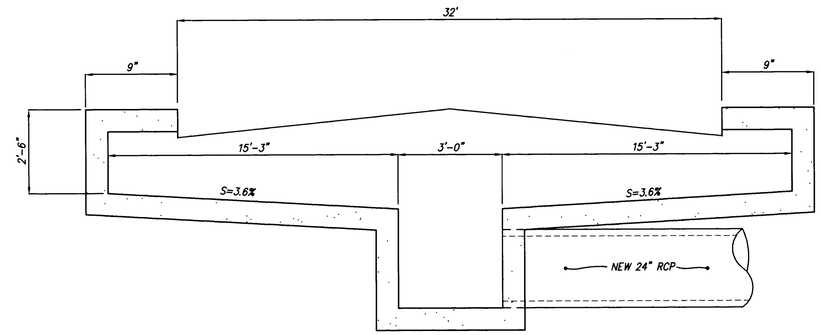
SCANNED BY
BY LASON



SECTION F 22 6
N.T.S.

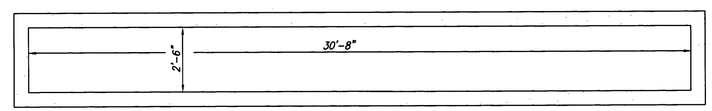


SECTION B 22 6
N.T.S.



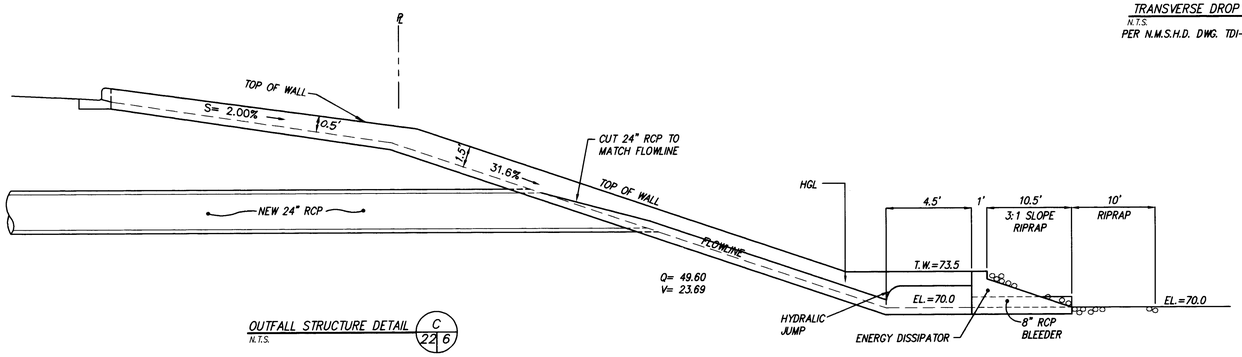
ELEVATION

TRANSVERSE DROP INLET DETAIL
N.T.S.
PER N.M.S.H.D. DWG. TDI-57, SHT. 3 OF 5

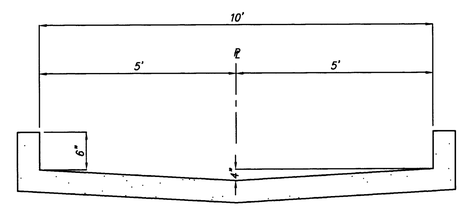


PLAN

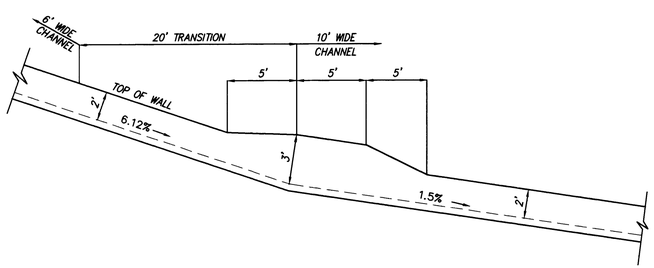
TRANSVERSE DROP INLET DETAIL
N.T.S.
PER N.M.S.H.D. DWG. TDI-57, SHT. 3 OF 5



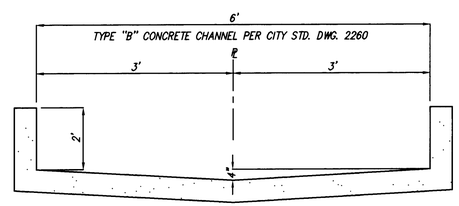
OUTFALL STRUCTURE DETAIL C 22 6
N.T.S.



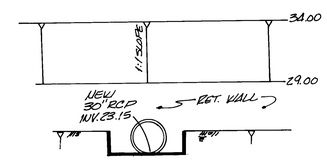
SECTION A 22 6
N.T.S.



HYDRAULIC JUMP WALL DETAIL D 22 6
N.T.S.



SECTION E 22 6
N.T.S.



SECTION G 22 6
N.T.S.

CHS\DET50

AS BUILT INFORMATION
CONTRACTOR M. C. C.
WORK STAKED BY Alarch Surveying DATE 11-93
INSPECTOR'S ACCEPTANCE BY C. O. Spencer DATE 8-20-94
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
THE STATION IS LOCATED NEAR THE INTERSECTION OF ARROW AVE. AND BRYAN AVE. N.W. THE STATION IS A 3 1/4" ALUMINUM CAP RIVETED TO A PIPE PROTRUDING 0.1 FOOT ABOVE THE GROUND. AND IS STAMPED "ACS 4-B13, 1986". X=375,489.27, Y=1,525,104.55, Z=5169.511

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
D. MARK GOODWIN NEW MEXICO 6894 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

REVISIONS

		DATE
DESIGN		
DESIGNED BY	G.W.	7/93
DRAWN BY	STAFF	7/93
CHECKED BY	DMG	7/93

26 4720.902294

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
CACTUS HILLS SUBDIVISION
TYPICAL SECTIONS & DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	S.G. Goodby	8-17-93	WATER	U/A Rule	8-9-93
TRANSPORTATION	R. Henry	8-13-93	WASTE WATER	U/A Rule	8-9-93
HYDROLOGY	J. Curtin	8-9-93	N.M.U.I.		

PROJECT NO.	MAP NO.	SHEET	OF
4720.90	C13	22	22

SCANNED BY BY LASON