HYDROLOGY

K22/D24

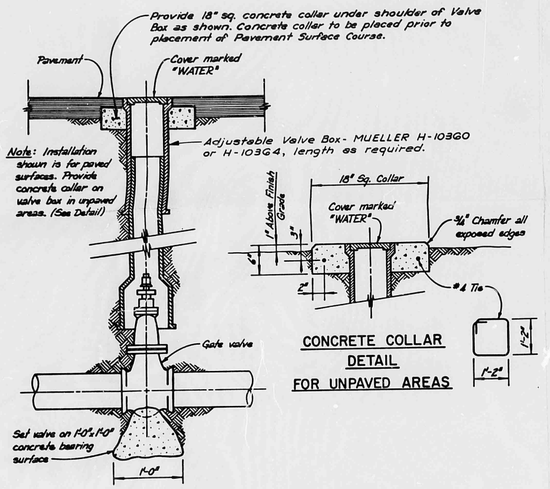
THREE PLANS

KOA ADDITION

TRACT B-1

K22/D24

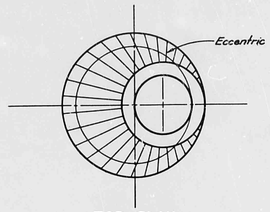
3 PLANS



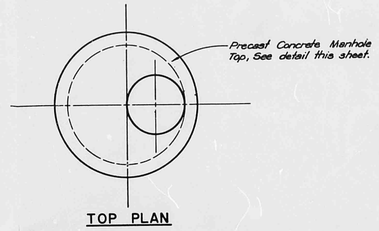
WATER VALVE & VALVE BOX DETAILS

NO SCALE

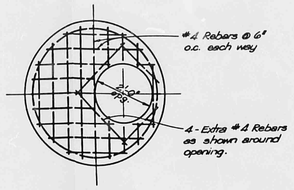
CONCRETE COLLAR DETAIL FOR UNPAVED AREAS



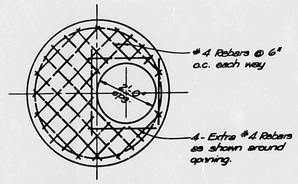
TOP PLAN



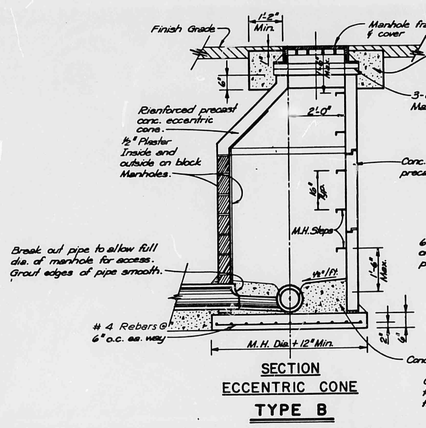
TOP PLAN



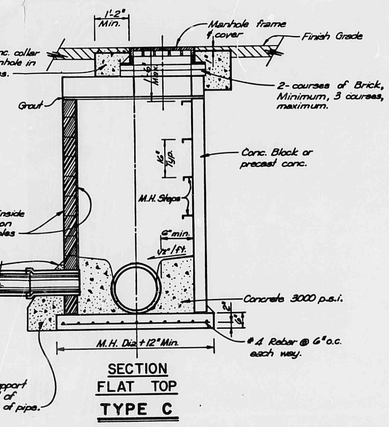
TOP MATT



BOTTOM MATT

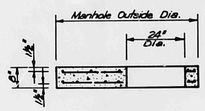


SECTION
ECCENTRIC CONE
TYPE B



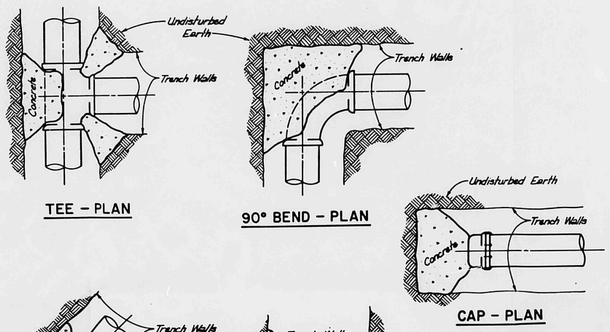
SECTION
FLAT TOP
TYPE C

NOTE: Manholes 6' and less in depth shall be Type 'C'. Manholes greater than 6' in depth may be Type 'B' or 'C'.



SECTION

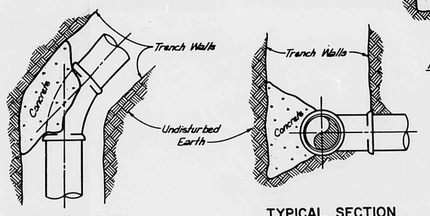
PRECAST CONCRETE MANHOLE TOP FOR TYPE "C" MANHOLE



TEE - PLAN

90° BEND - PLAN

CAP - PLAN



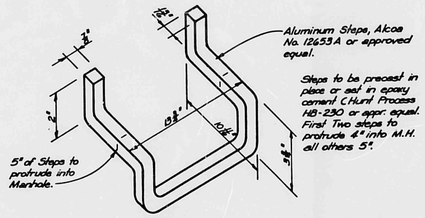
45° BEND - PLAN

TYPICAL SECTION

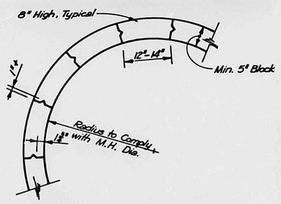
NOTE: All concrete thrust blocks shall be placed to distribute horizontal thrust over vertical undisturbed earth. Size of thrust blocks shall be determined by using an allowable soil bearing pressure of 1500 p.s.f. at 150 p.s.i. test pressure in water line.

CONCRETE THRUST BLOCK DETAILS

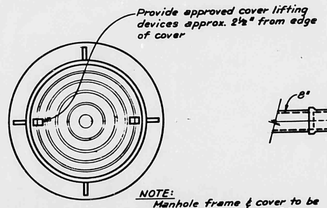
NO SCALE



MANHOLE STEP DETAIL

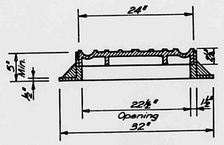


CONCRETE BLOCK DETAILS



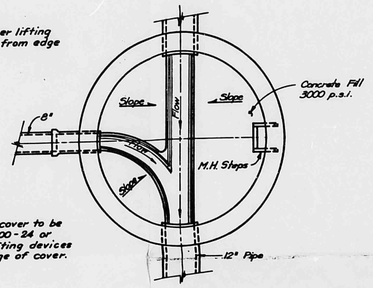
PLAN

NOTE: Manhole frame & cover to be Bass & Hayes # 400-24 or equal. Provide lifting devices on ¢ 2 1/2" from edge of cover.



SECTION

TYPICAL MANHOLE FRAME & COVER



TYPICAL MANHOLE FLOOR PLAN

K22/D24

REVISIONS

DRAWN BY

SANDIA RIDGE APARTMENTS

ALBUQUERQUE NEW MEXICO

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. ANDREWS

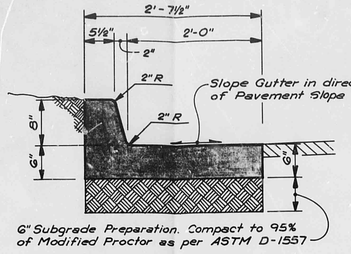
SHEET TITLE
WATER & SEWER DETAILS

GREENER & SUMNER ARCHITECTS, INC.
9500 FOREST LN • SUITE 500
DALLAS, TEXAS 75243 • 214/341-9962

JOB NUMBER

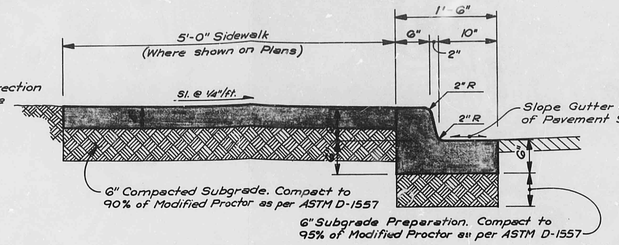
DATE

SHEET NUMBER
C-4
OF



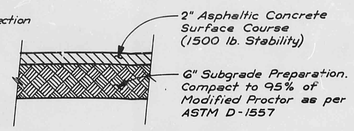
CURB & GUTTER - 8"

SCALE: 1" = 1'-0"



SIDEWALK & CURB & GUTTER - 6"

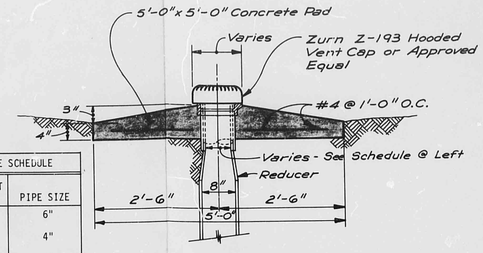
SCALE: 1" = 1'-0"



PARKING AREA

TYPICAL PAVEMENT SECTION

NO SCALE



PIPE SIZE SCHEDULE	
SURFACE INLET DESIGNATION	PIPE SIZE
A	6"
B	4"
C	6"
D	5"

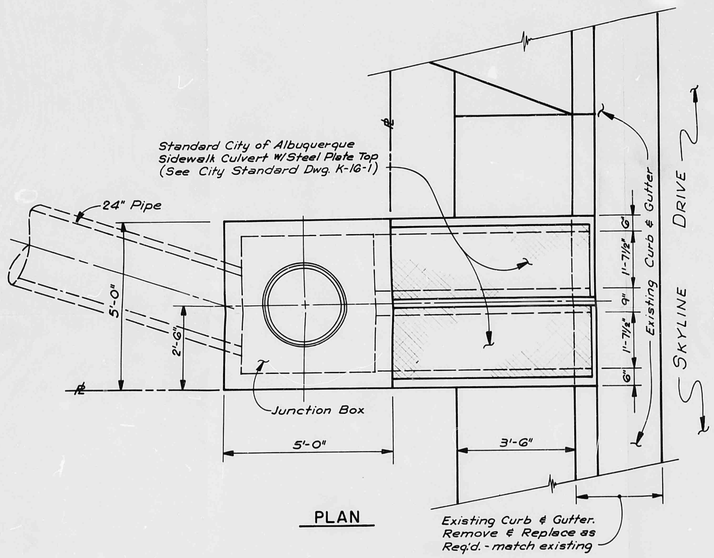
See Grading Plan for Surface Inlet Designation and Location

SURFACE INLET DETAIL

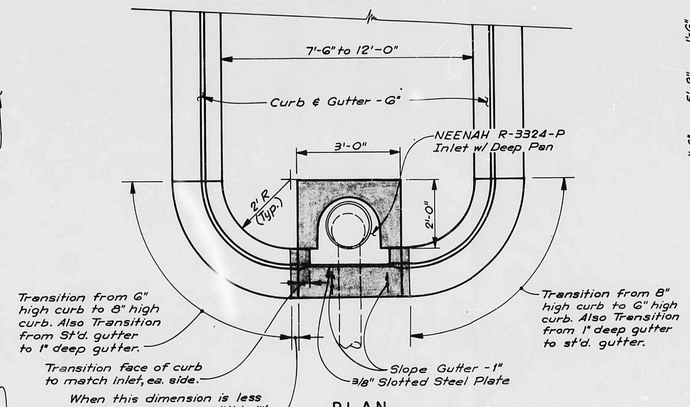
SCALE: 3/4" = 1'-0"

NOTE:

CURB INLET PLAN SHOWN IS FOR INLET INSTALLATION IN PARKING LOT ISLANDS, OTHER INSTALLATIONS ARE SIMILAR. CURB INLETS INSTALLED IN STRAIGHT RUNS OF CURB & GUTTER AND AT OTHER LOCATIONS SHALL HAVE CURB HEIGHT TRANSITIONS 3'-0" IN LENGTH EACH SIDE OF INLET.

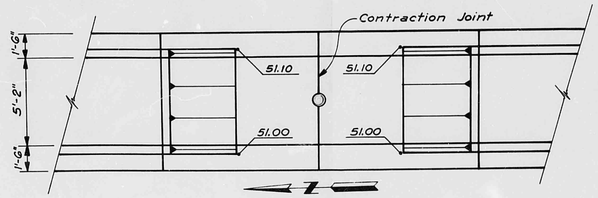


PLAN

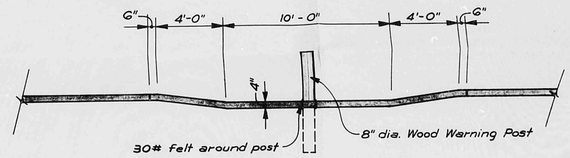


PLAN

SCALE: 1/2" = 1'-0"



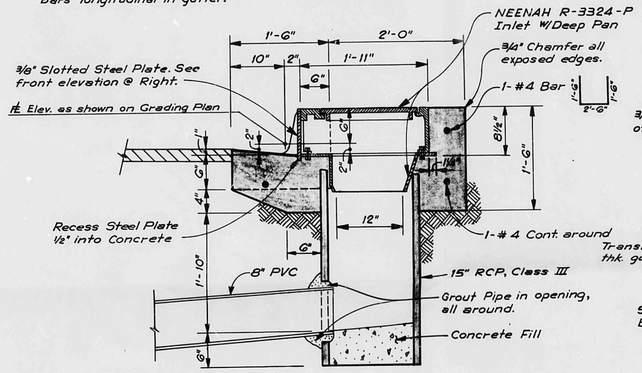
PLAN



SECTION

DETAIL 'A'

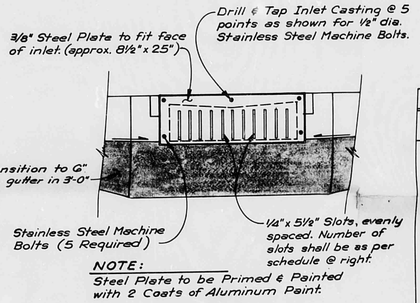
SCALE: 1/4" = 1'-0"



SECTION

SCALE: 1" = 1'-0"

CURB INLET DETAILS



NOTE:

Steel Plate to be Primed & Painted with 2 Coats of Aluminum Paint.

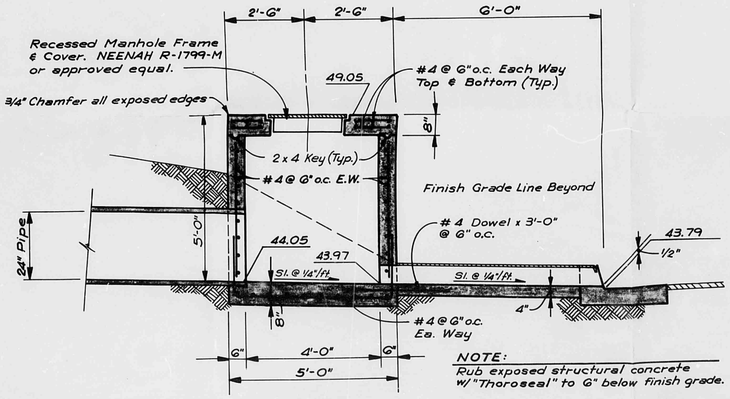
ELEVATION

3/8" SLOTTED STEEL PLATE

SCALE: 1" = 1'-0"

SLOT SCHEDULE	
CURB INLET DESIGNATION	NUMBER OF SLOTS REQUIRED
1	17*
2	11
3	11
4	8
5	12
6	19
7	19
8	19
9	8
10	8
11	20
12	20
13	16
14	3
15	3
16	3
17	3
*PROVIDE ¼" x 5½" SLOTS	

See Grading Plan for Curb Inlet Designation and Location.



NOTE:

Rub exposed structural concrete w/ "Thoroseal" to 6" below finish grade.

SECTION

JUNCTION BOX DETAILS

SCALE: 1/2" = 1'-0"

K22/D24

REVISIONS

DRAWN BY

SANDIA RIDGE APARTMENTS

ALBUQUERQUE NEW MEXICO

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. ANDREWS

SHEET TITLE

SITE DETAILS

GREENER & SUMNER ARCHITECTS, INC.

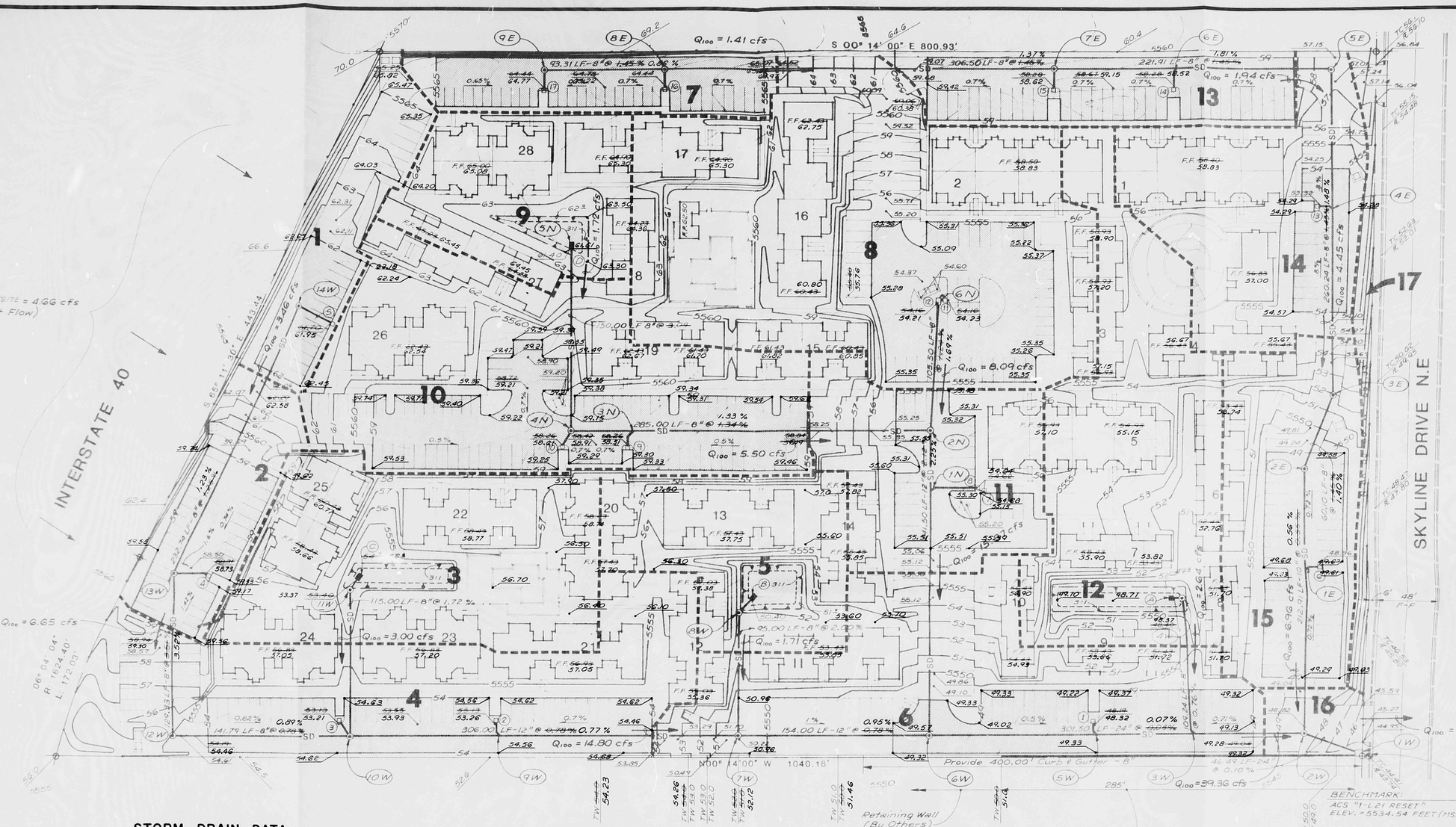
10100 FOREST LN. • SUITE 500
DALLAS, TEXAS 75243 • 214 341 9982

JOB NUMBER

DATE

SHEET NUMBER

C-3



STORM DRAIN DATA

SYMBOL	TYPE OF STRUCTURE	NORTH COORD.	EAST COORD.	RIM ELEVATION	INVERT
1E	WYE	1046.00	1153.00	-----	45.08 E&W 45.16 S
2E	MH	1046.00	1230.41	~~48.92~~ 49.37	~~45.31 W~~ 45.28 ~~45.41 E~~ 45.38
3E	MH	1023.00	1285.94	~~52.06~~ 51.97	~~46.20~~ W 46.22 ~~46.38~~ E 46.27
4E	WYE	1023.00	1436.18	-----	48.56 E&N
5E	MH	1023.00	1546.18	~~57.00~~ 58.22	~~50.16~~ W 50.12 ~~50.26~~ N 50.14
6E	WYE	1149.94	1546.18	-----	52.10 N&W
7E	MH	1244.94	1546.18	~~58.75~~ 59.88	~~53.49~~ S 54.15 ~~53.59~~ N 54.24
8E	MH	1551.44	1546.18	~~64.00~~ 65.14	~~58.04~~ S 57.99 ~~58.14~~ N 58.44
9E	MH	1648.94	1546.18	~~64.80~~ 65.10	~~59.50~~ S 59.24 ~~59.60~~ W 59.29
1N	WYE	1347.50	1214.00	-----	49.06 E&W 49.22 S
2N	MH	1347.50	1259.00	~~54.90~~ 55.08	~~50.01~~ W 49.88 ~~50.16~~ N 50.13
3N	WYE	1588.46	1259.00	-----	53.41 N&W
4N	MH	1632.50	1259.00	~~58.00~~ 58.83	~~54.00~~ S 53.92 ~~54.10~~ E&W 54.18
5N	SURFACE INLET	1632.50	1409.00	-----	58.73
6N	CURB INLET	1339.20	1364.17	-----	51.49

SYMBOL	TYPE OF STRUCTURE	NORTH COORD.	EAST COORD.	RIM ELEVATION	INVERT
1W	JUNCTION BOX	1002.50	1002.50	~~49.05~~ 49.13	~~44.05~~ N 44.03 ~~43.97~~ S 43.93
2W	MH	1046.00	1017.50	~~48.86~~ 48.38	~~44.14~~ N 44.08 ~~44.09~~ S 44.17
3W	WYE	1139.20	1017.50	-----	44.23 N&S 44.90 E
4W	MH	1146.50	1126.50	----- 49.62	~~45.73~~ W 45.72
5W	WYE	1205.46	1017.50	-----	44.30 N&S 44.97 E
6W	MH	1347.50	1017.50	~~48.85~~ 49.47	~~44.89~~ N&E 44.45 ~~44.35~~ S 44.28
7W	MH	1500.71	1017.50	~~50.22~~ 50.70	~~46.19~~ N&E 46.00 ~~46.09~~ S 45.91
8W	MH	1500.71	1112.50	~~52.10~~ 53.78	~~48.09~~ W 48.05 48.19 E
9W	WYE	1690.21	1017.50	-----	47.67 N&S 47.83 E
10W	MH	1806.71	1017.50	~~53.44~~ 54.10	~~48.75~~ N&E 48.51 ~~48.58~~ S 48.35
11W	MH	1806.71	1132.50	----- 56.00	~~50.73~~ 50.42
12W	MH	1948.50	1017.50	~~55.00~~ 55.67	~~49.96~~ E 49.91 ~~49.86~~ S 49.71
13W	MH	1948.50	1146.83	~~58.69~~ 59.28	~~54.50~~ N 54.46 ~~54.60~~ E 54.46
14W	MH	1849.99	1357.69	~~61.90~~ 62.35	~~57.50~~ N 57.33 57.37 S

LEGEND

- Curb Inlet & Designation
- Surface Inlet & Designation
- Existing Ground Contour
- Finish Grade Contour
- Spot Elevation
- F.F. 53.36 — Finish Floor Elevation
- 1.20% — Direction of Surface Flow w/Slope
- Drainage Area Boundary
- 13 — Drainage Area and/or Pond Designation
- Ponding Area
- Location of Overflow Spillway & Discharge
- New Storm Drain & Manhole
- TW 51.0 — Top of Wall Elevation
- ~~54.82~~ / 54.72 — Designed Elevation / As built Elevation

DRAINAGE ANALYSIS DEVELOPED CONDITIONS

1" = 40'-0"

I, JOHN A. ANDREWS, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE PROJECT AS CONSTRUCTED, WILL PROVIDE FOR DRAINAGE IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE PLAN.

JOHN A. ANDREWS, P.E. NO. 3960 DATE

AS BUILT

RECEIVED MAY 07 1986 HYDROLOGY SECTION

K22/S24

Revised - As built elevations 4-15-86

MAP No. 4

REVISIONS

DRAWN BY

SANDIA RIDGE APARTMENTS

ALBUQUERQUE NEW MEXICO

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. ANDREWS No. 3960

SHEET TITLE: DRAINAGE ANALYSIS DEVELOPED COND.

GREENER & SUMNER ARCHITECTS, INC.
4900 FOREST LN • SUITE 500
DALLAS TEXAS 75243 • 214 341 9982

JOB NUMBER

DATE

SHEET NUMBER

OF