

36.222

LEE COUNTY

003103

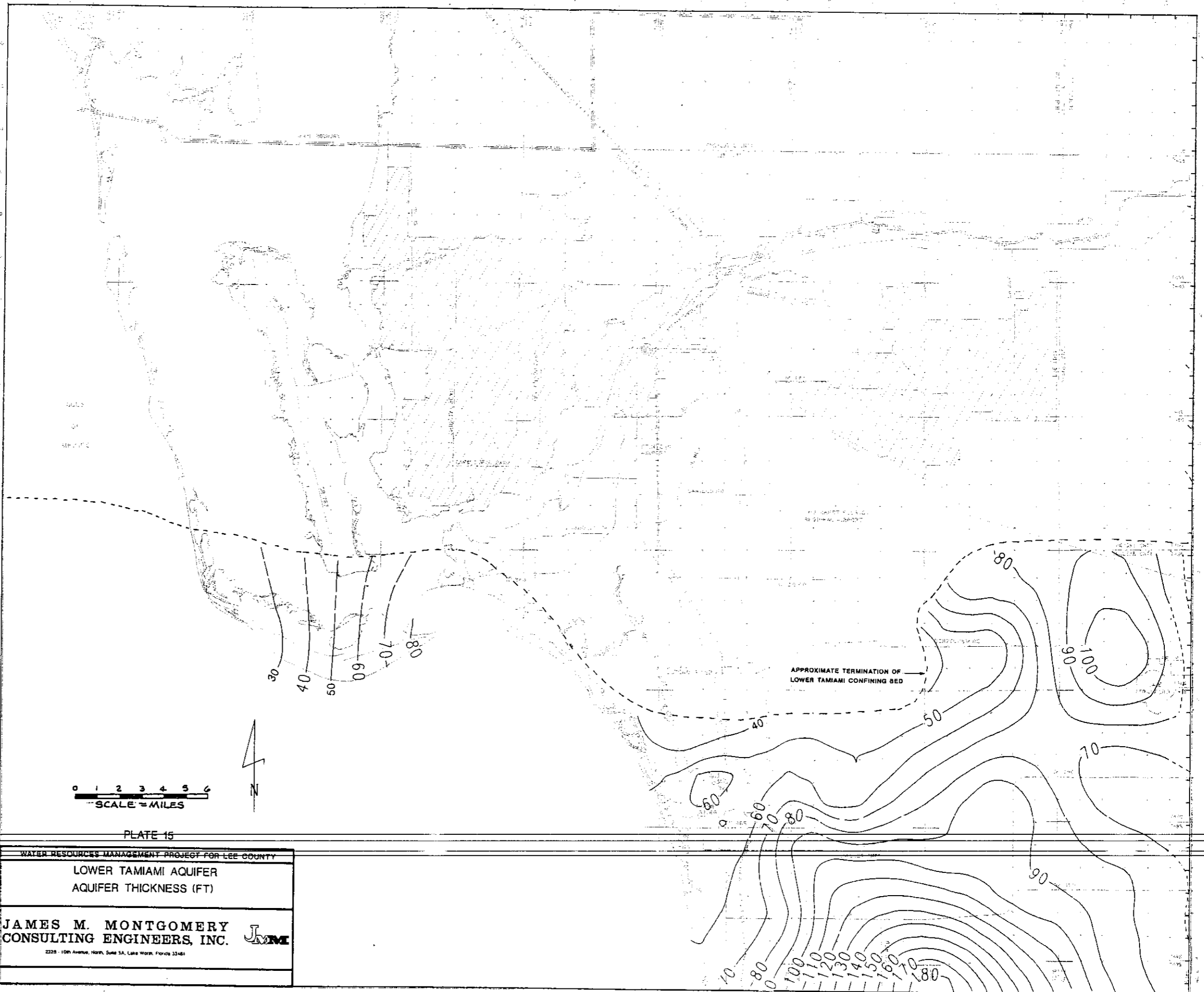
WATER RESOURCES MANAGEMENT PROJECT



PLATES

OCTOBER 5, 1988

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WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY
 LOWER TAMAMI AQUIFER
 AQUIFER THICKNESS (FT)
JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC. 
 2225 - 10th Avenue, North, Suite 1A, Lake Worth, Florida 33461

PLATE 15

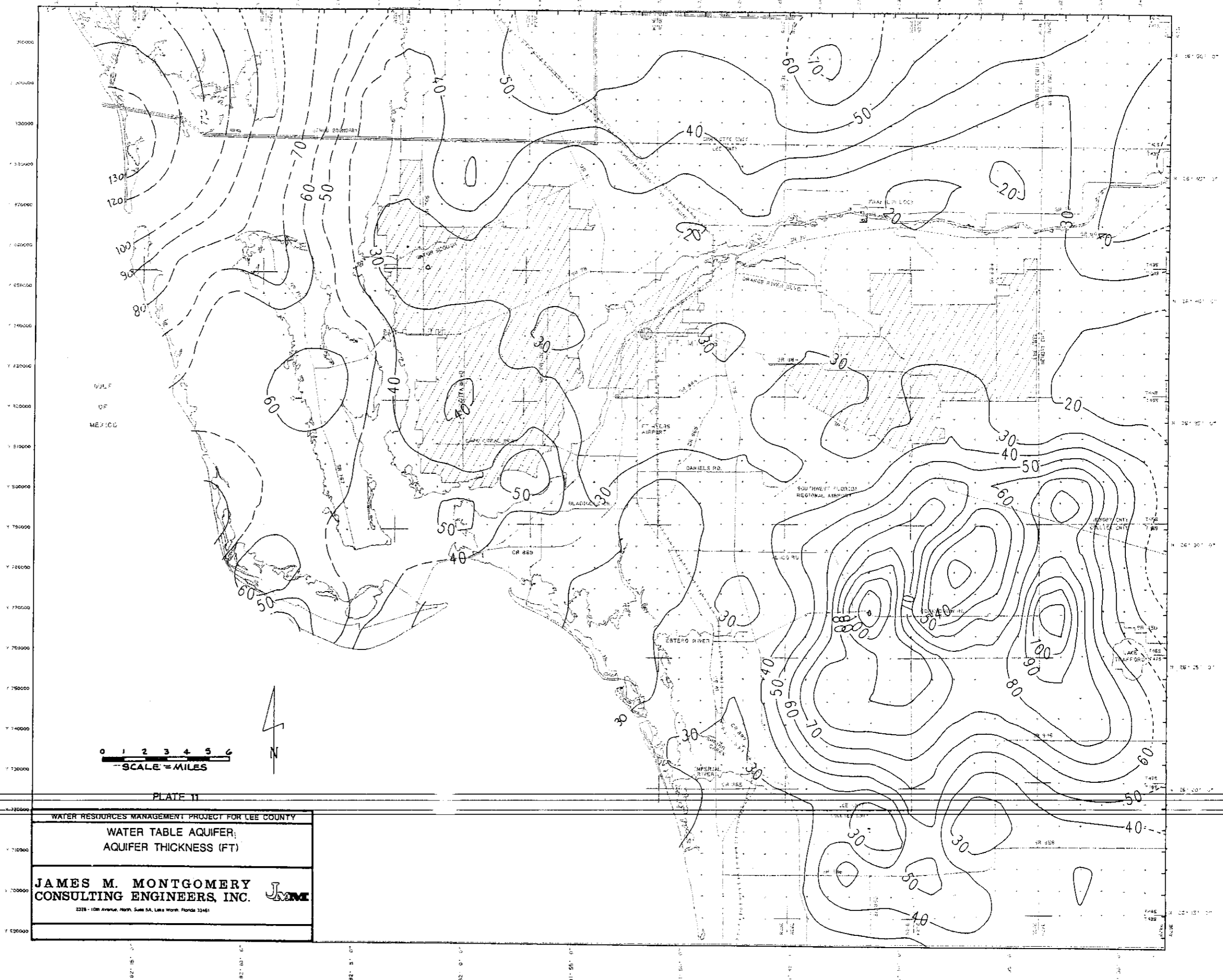
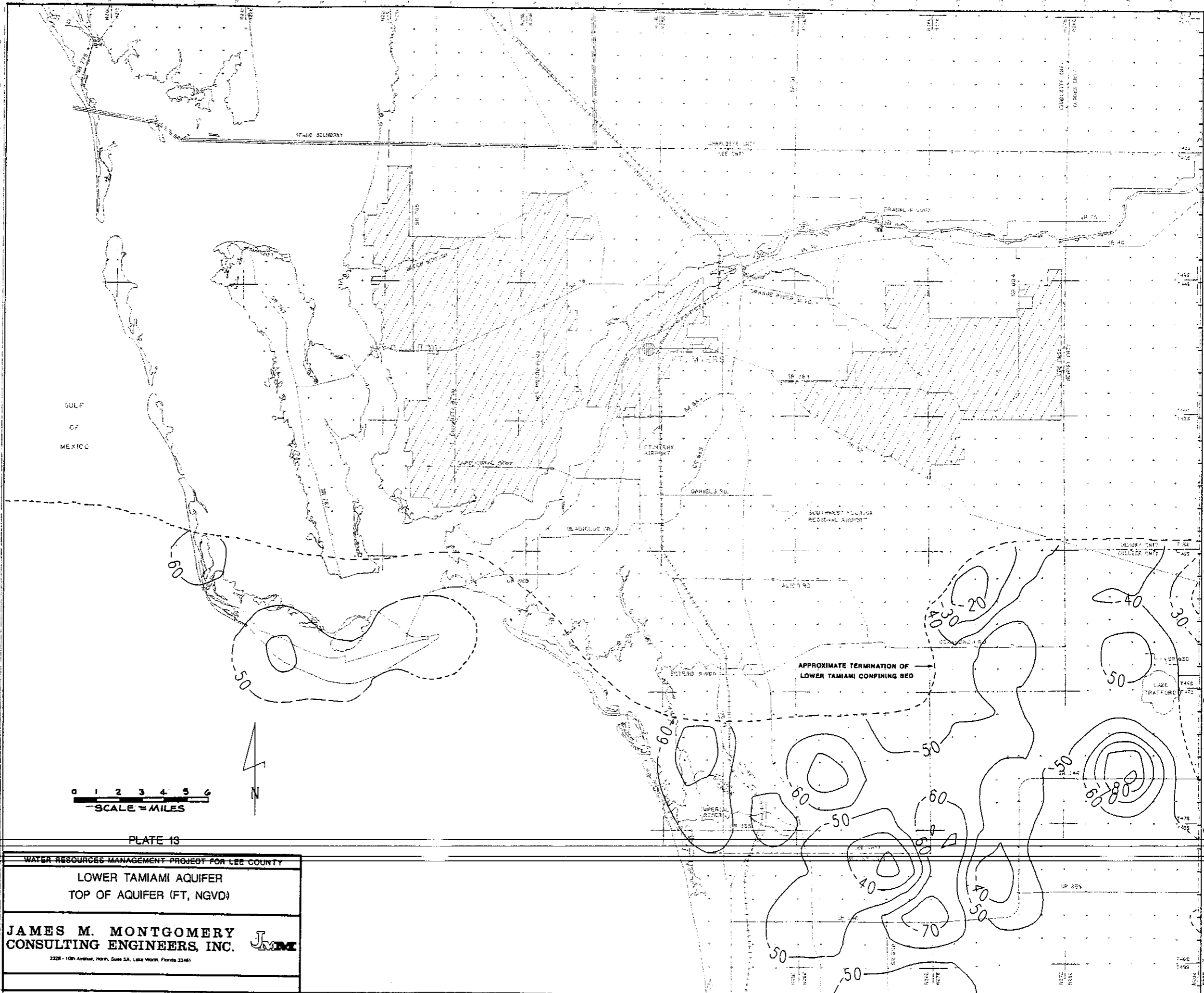



PLATE II
 WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY
 WATER TABLE AQUIFER
 AQUIFER THICKNESS (FT)
 JAMES M. MONTGOMERY
 CONSULTING ENGINEERS, INC. *JMME*
 2328 - 10th Avenue, North, Suite 5A, Lees Worth, Florida 33461



WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY
LOWER TAMIAMI AQUIFER
 TOP OF AQUIFER (FT, NGVD)

JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC.


2328 - 10th Avenue, North, Suite 5A, Lake Worth, Florida 33461

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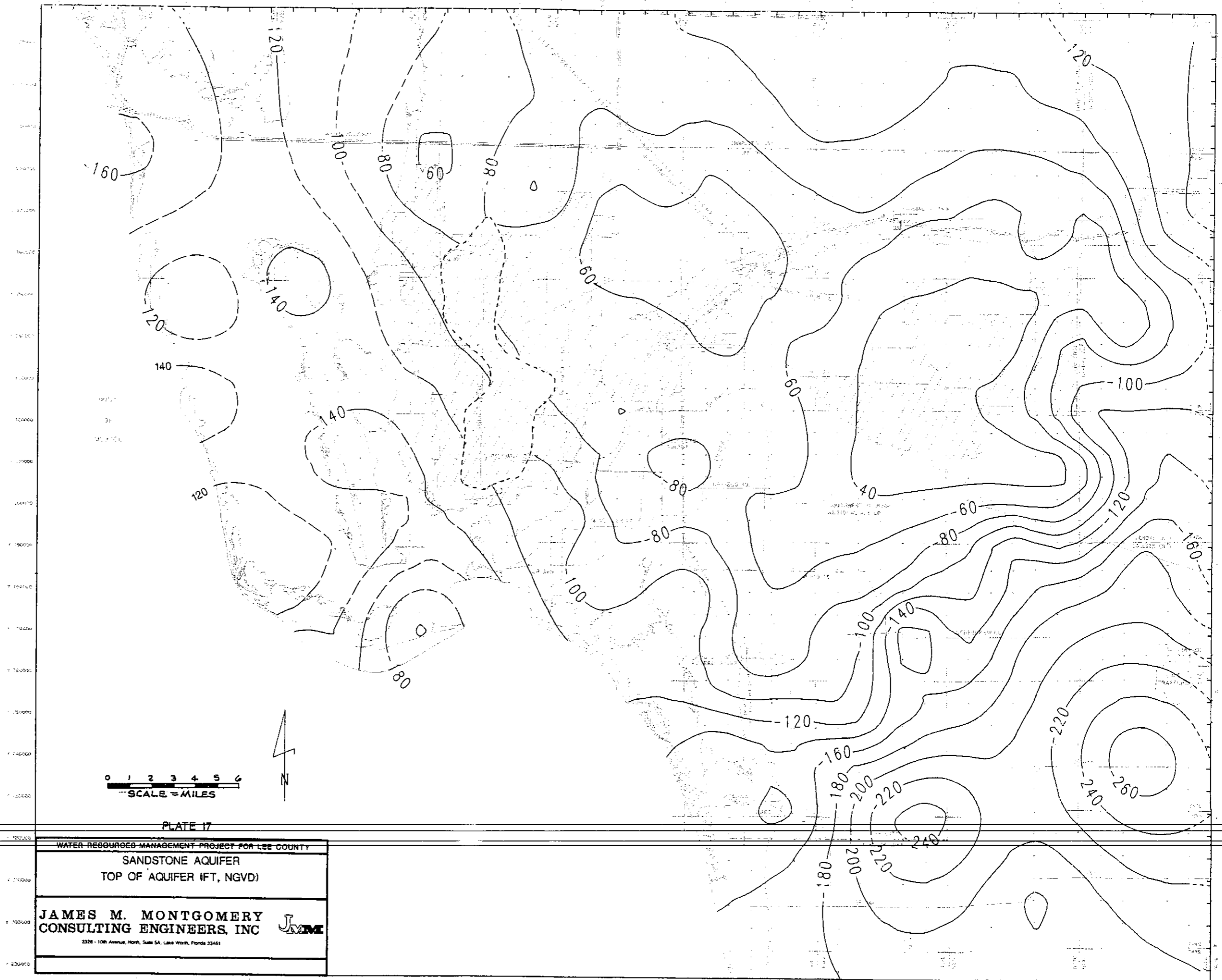



PLATE 17

WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY
SANDSTONE AQUIFER
TOP OF AQUIFER (FT, NGVD)

**JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC** 
2321 - 10th Avenue, North, Suite 5A, Lees Water, Florida 33461

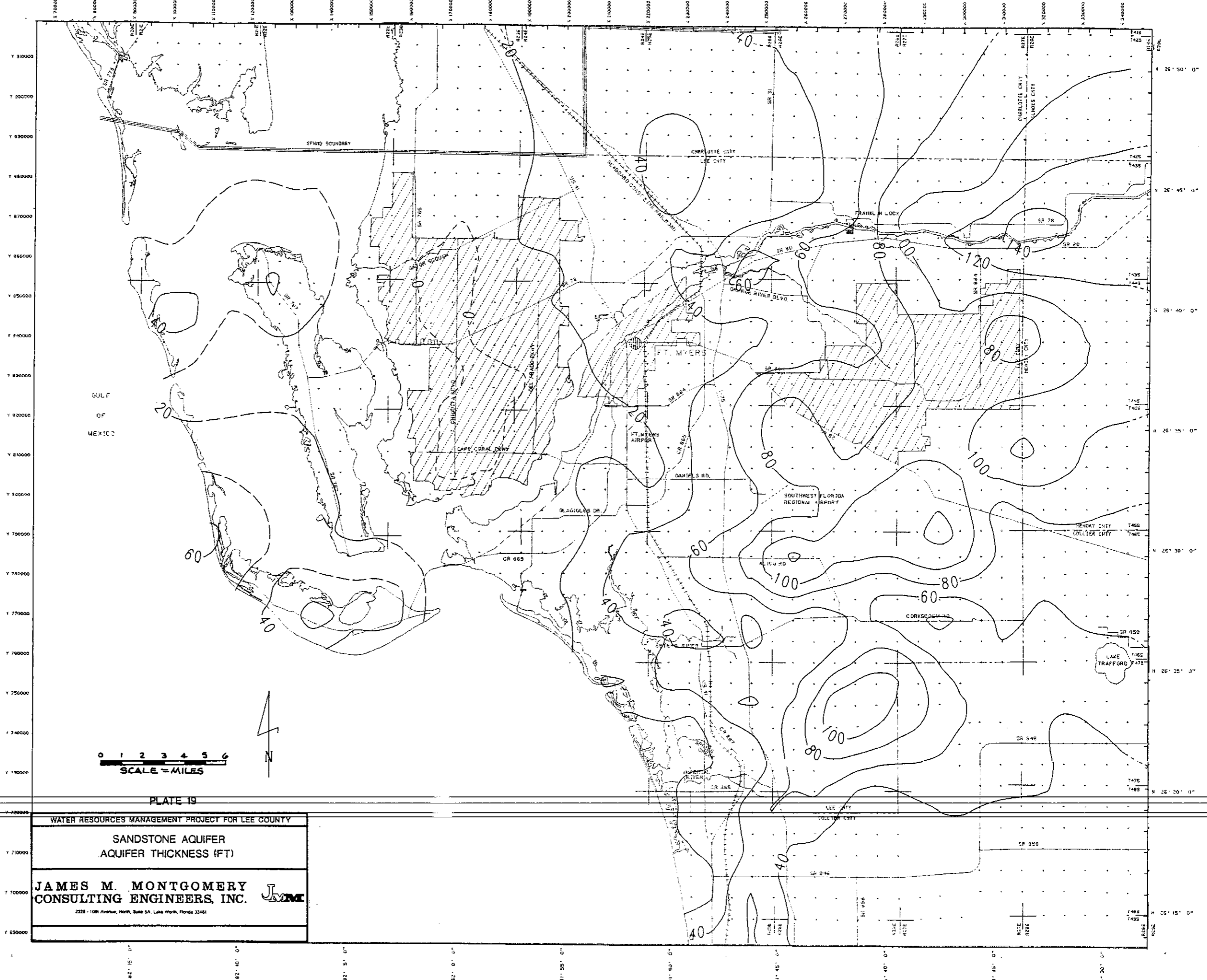



PLATE 19
 WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY
 SANDSTONE AQUIFER
 AQUIFER THICKNESS (FT)
JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC. 
 2328 - 10th Avenue, North, Suite 5A, Lake Worth, Florida 33461

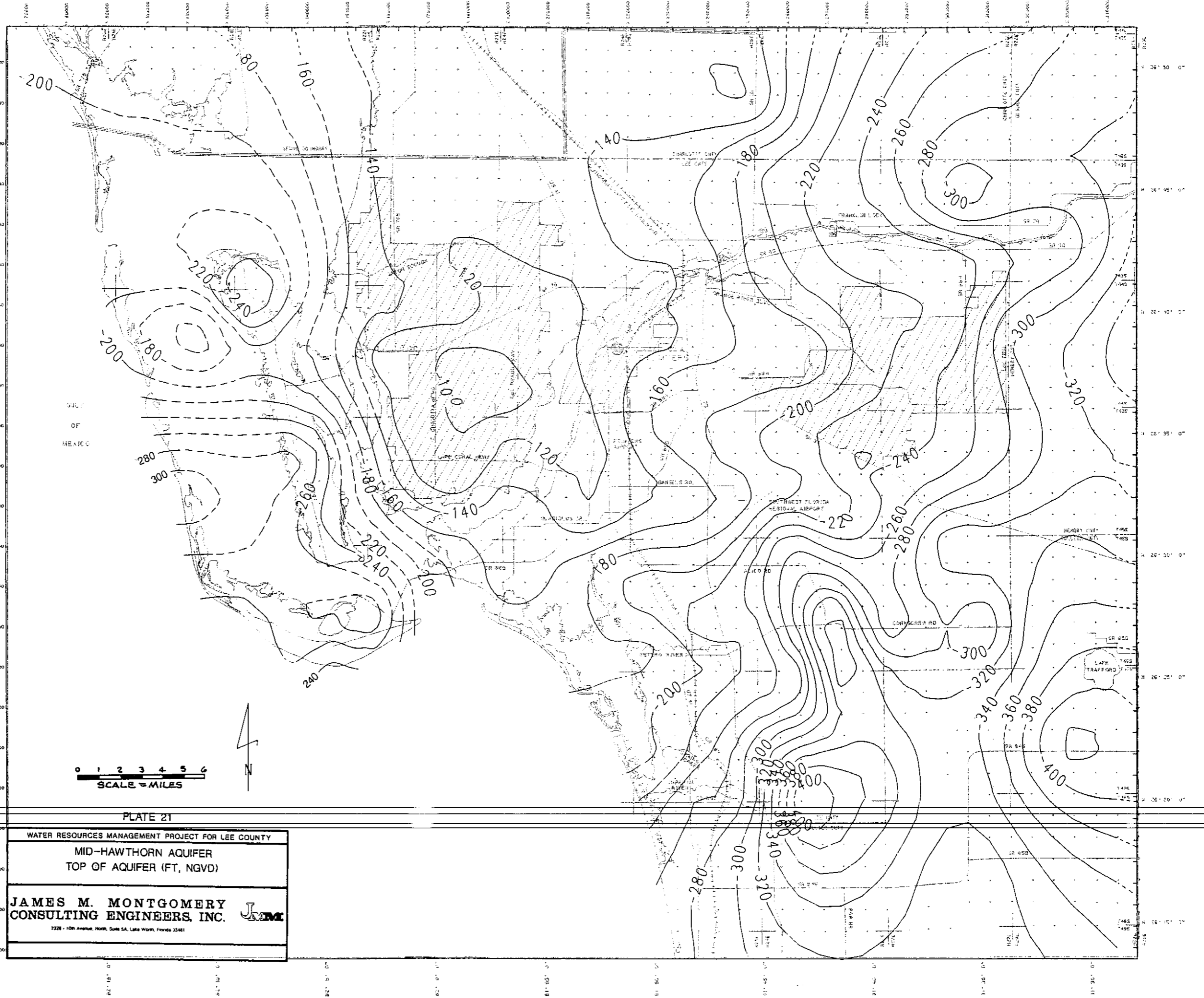
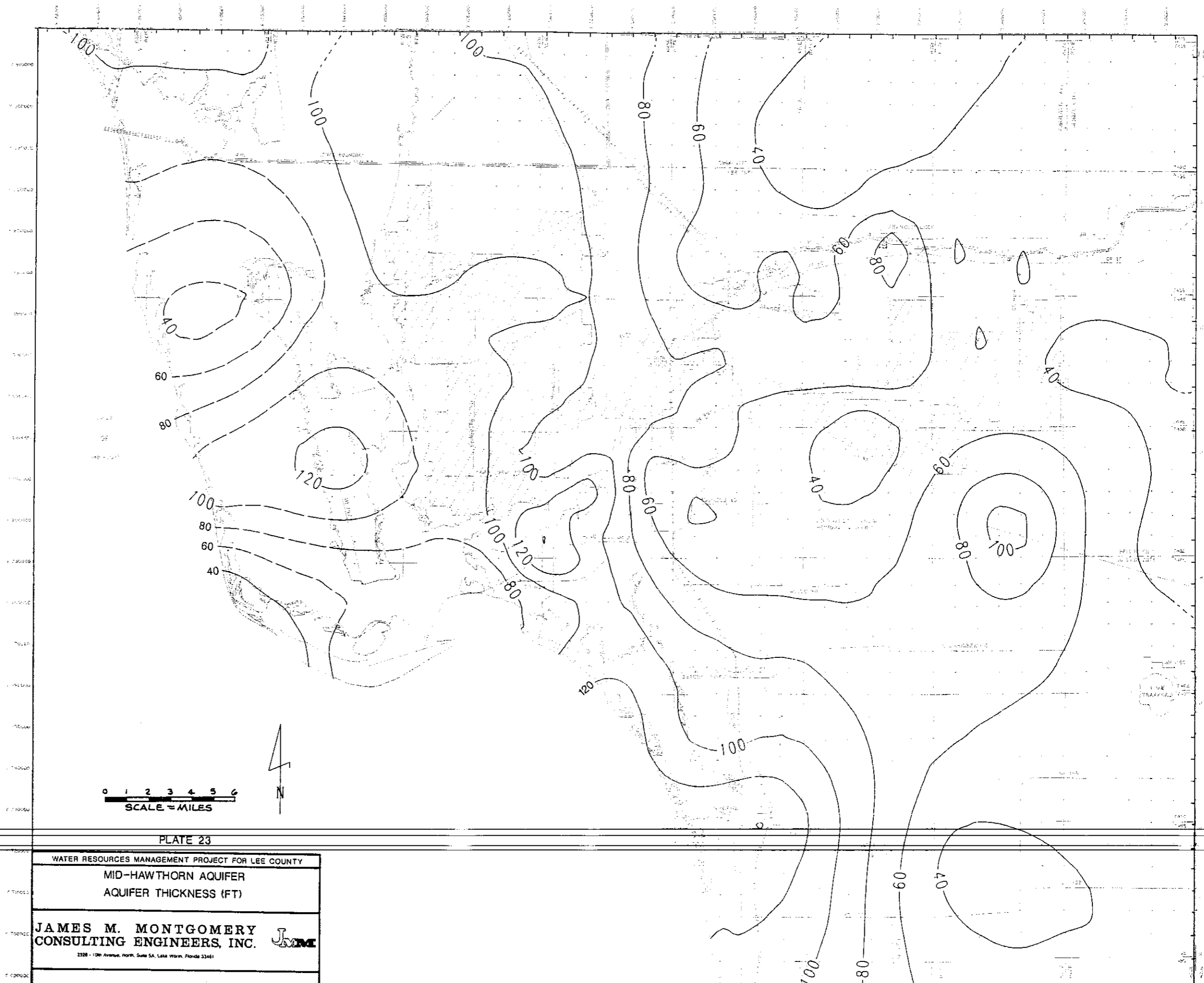


PLATE 21

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|--|
| WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY MID-HAWTHORN AQUIFER TOP OF AQUIFER (FT, NGVD) |
| JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC. |
| 7328 - 10th Avenue, North, Suite 5A, Lake Wales, Florida 33851 |



0 1 2 3 4 5 6
SCALE = MILES

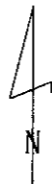



PLATE 23

| | |
|---|---|
| WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY | |
| MID-HAWTHORN AQUIFER | |
| AQUIFER THICKNESS (FT) | |
| JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC. |  |
| <small>2328 - 10th Avenue, North, Suite 5A, Lake Worth, Florida 33461</small> | |

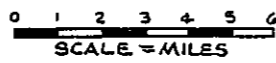
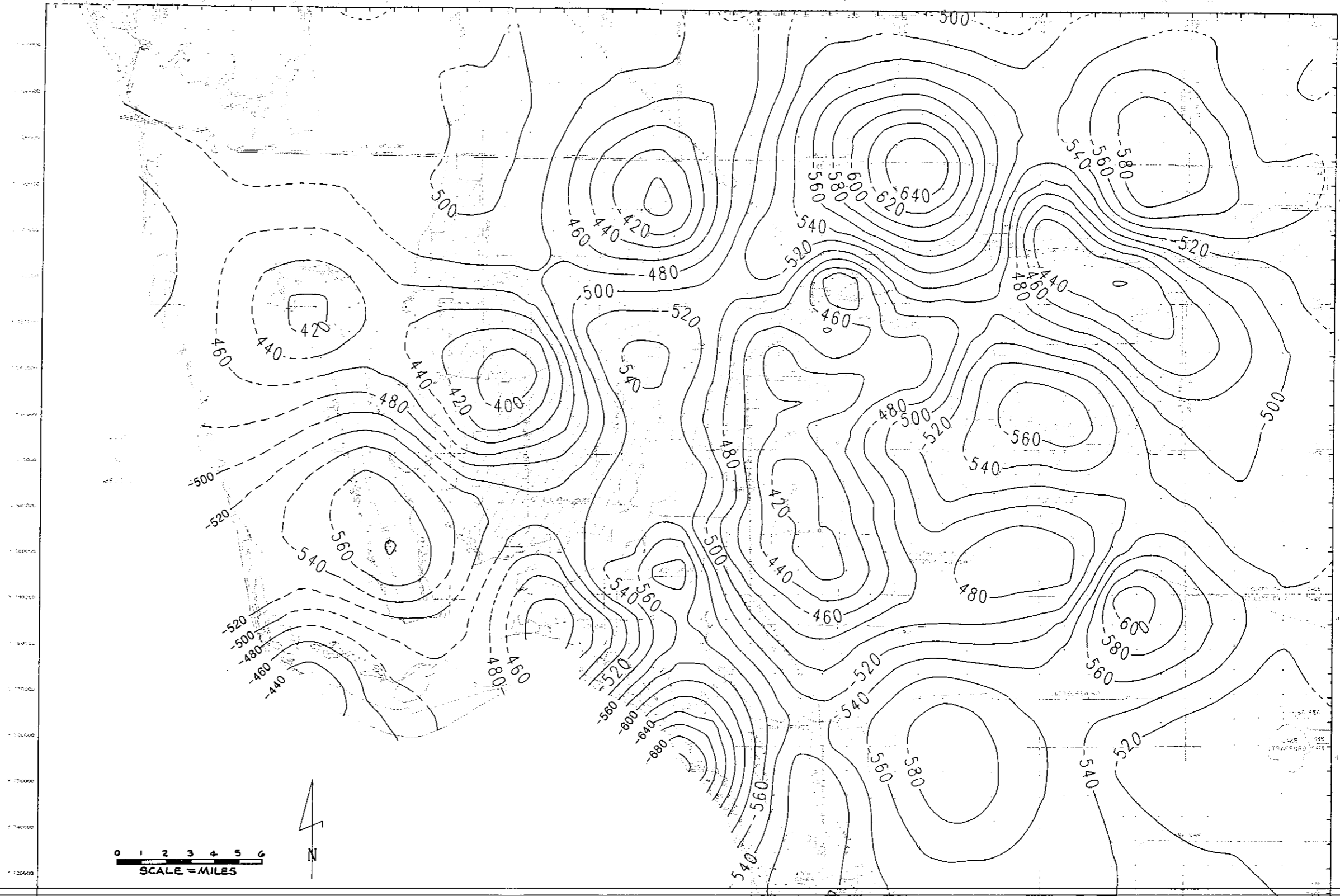



PLATE 25

WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY
LOWER HAWTHORN AQUIFER
TOP OF AQUIFER (FT, NGVD)

**JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC.** 
2228 - 110th Avenue, North, Suite 5A, Lake Worth, Florida 33461

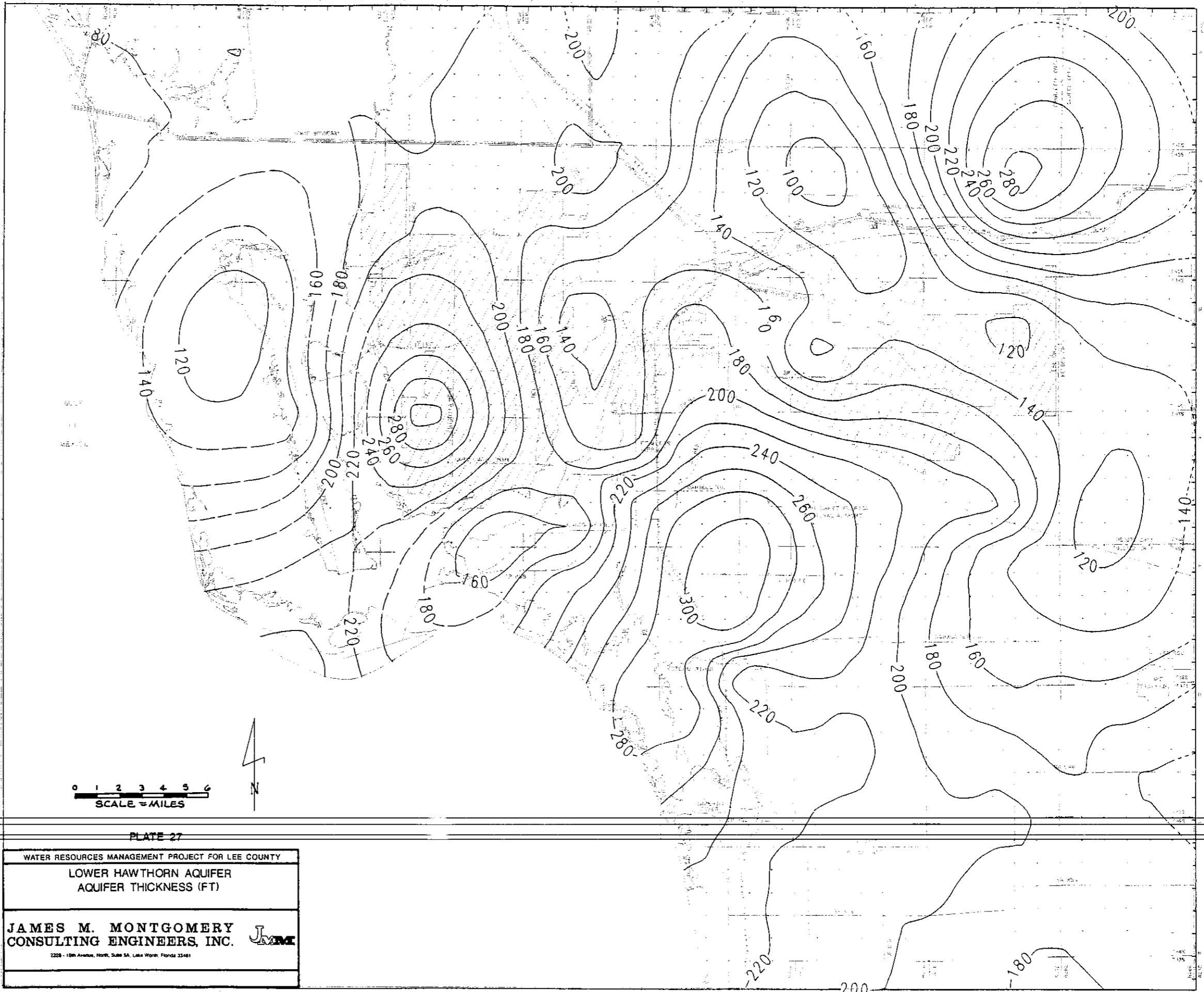

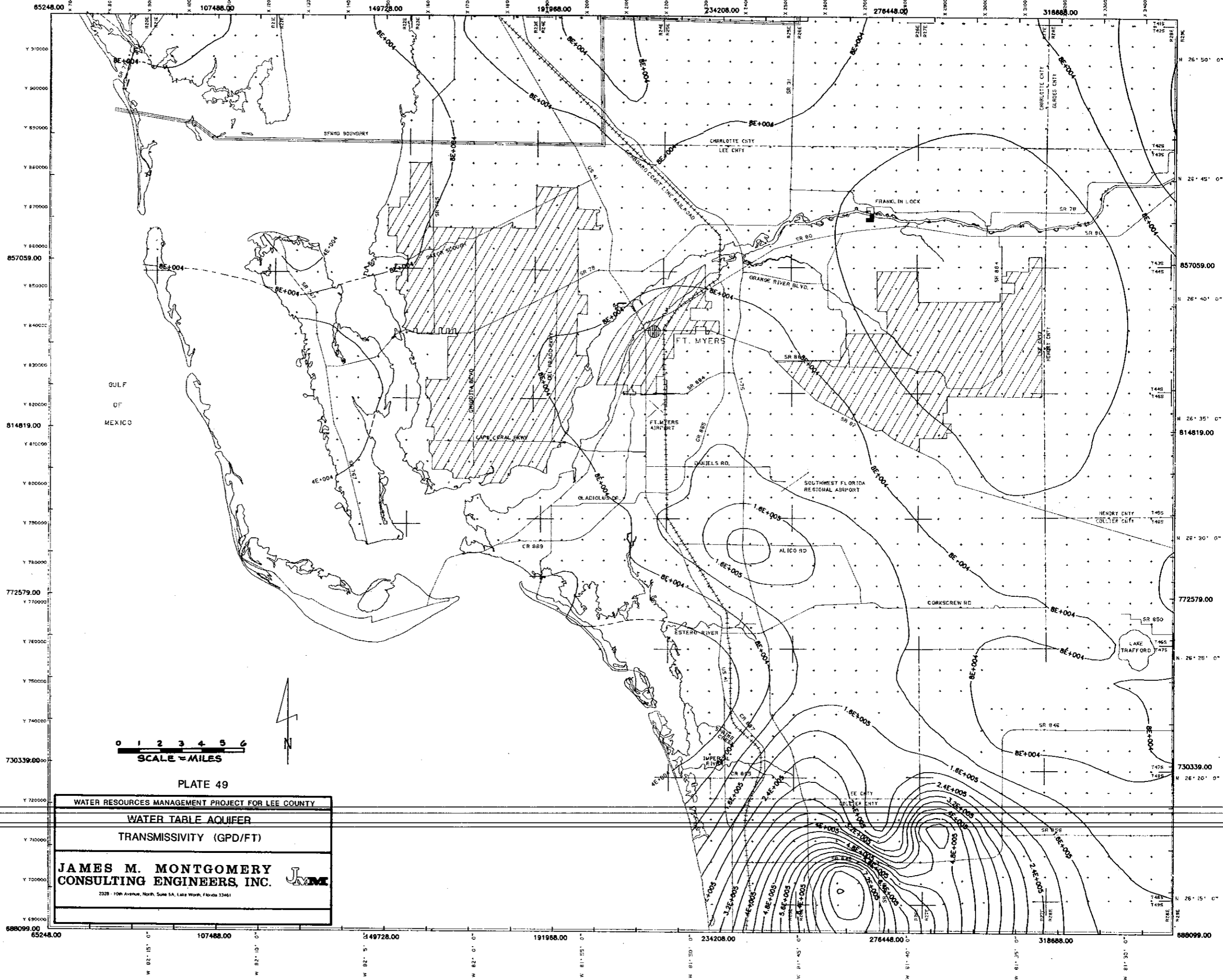


PLATE 27

WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY
LOWER HAWTHORN AQUIFER
AQUIFER THICKNESS (FT)

JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC. 
2225 - 10th Avenue, North, Suite 5A, Lake Worth, Florida 33461



65248.00 107488.00 149728.00 191988.00 234208.00 276448.00 318688.00 688099.00

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Y 890000
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Y 860000
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730339.00
Y 730000
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Y 710000
Y 700000
Y 690000
688099.00

W 82° 15' 0" W 82° 10' 0" W 82° 5' 0" W 81° 55' 0" W 81° 50' 0" W 81° 45' 0" W 81° 40' 0" W 81° 35' 0" W 81° 30' 0"

N 26° 50' 0" N 26° 45' 0" N 26° 40' 0" N 26° 35' 0" N 26° 30' 0" N 26° 25' 0" N 26° 20' 0" N 26° 15' 0"

0 1 2 3 4 5 6
SCALE = MILES

PLATE 49
WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY
WATER TABLE AQUIFER
TRANSMISSIVITY (GPD/FT)
JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC.
2328 - 10th Avenue, North, Suite 5A, Lake Worth, Florida 33461

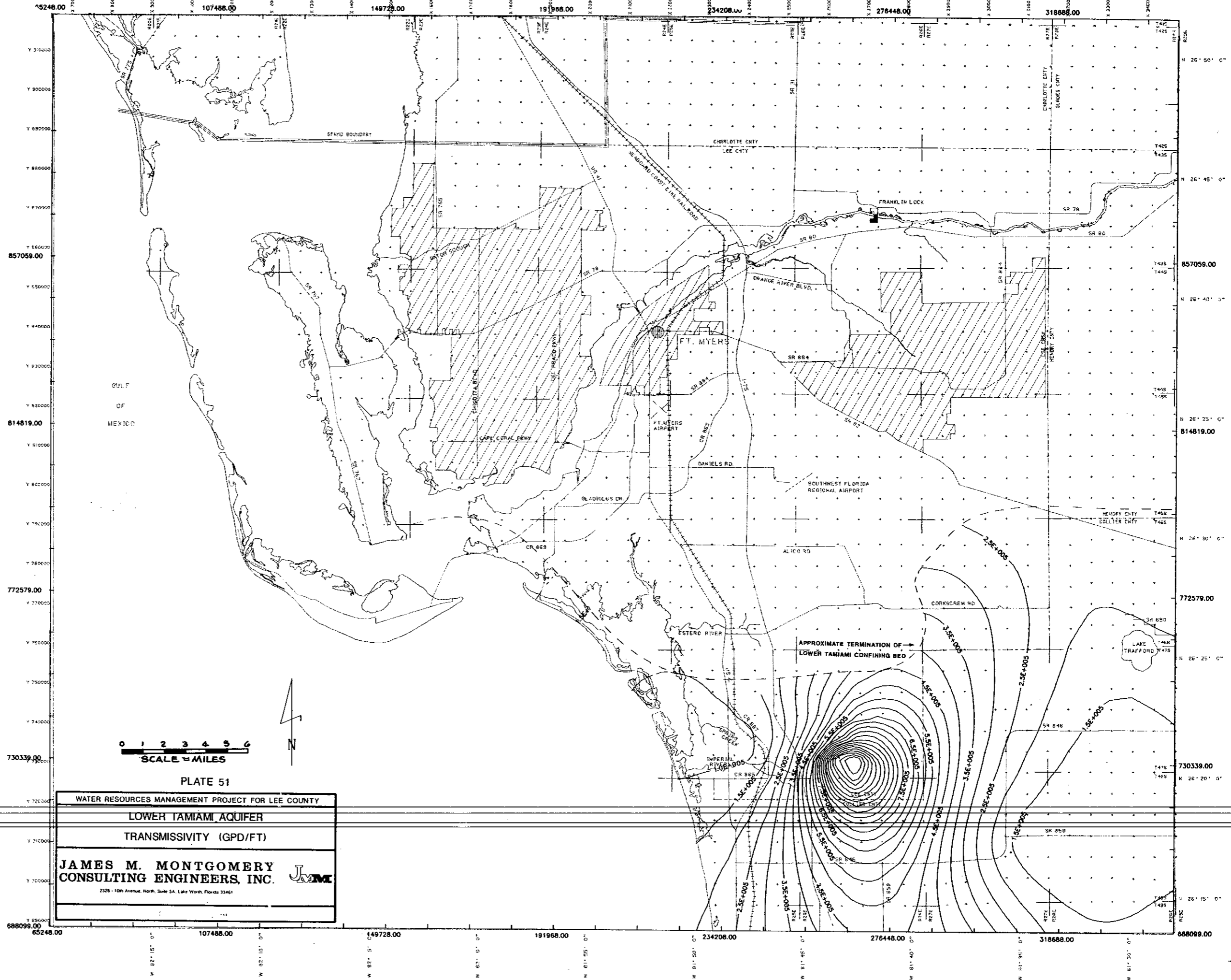
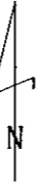
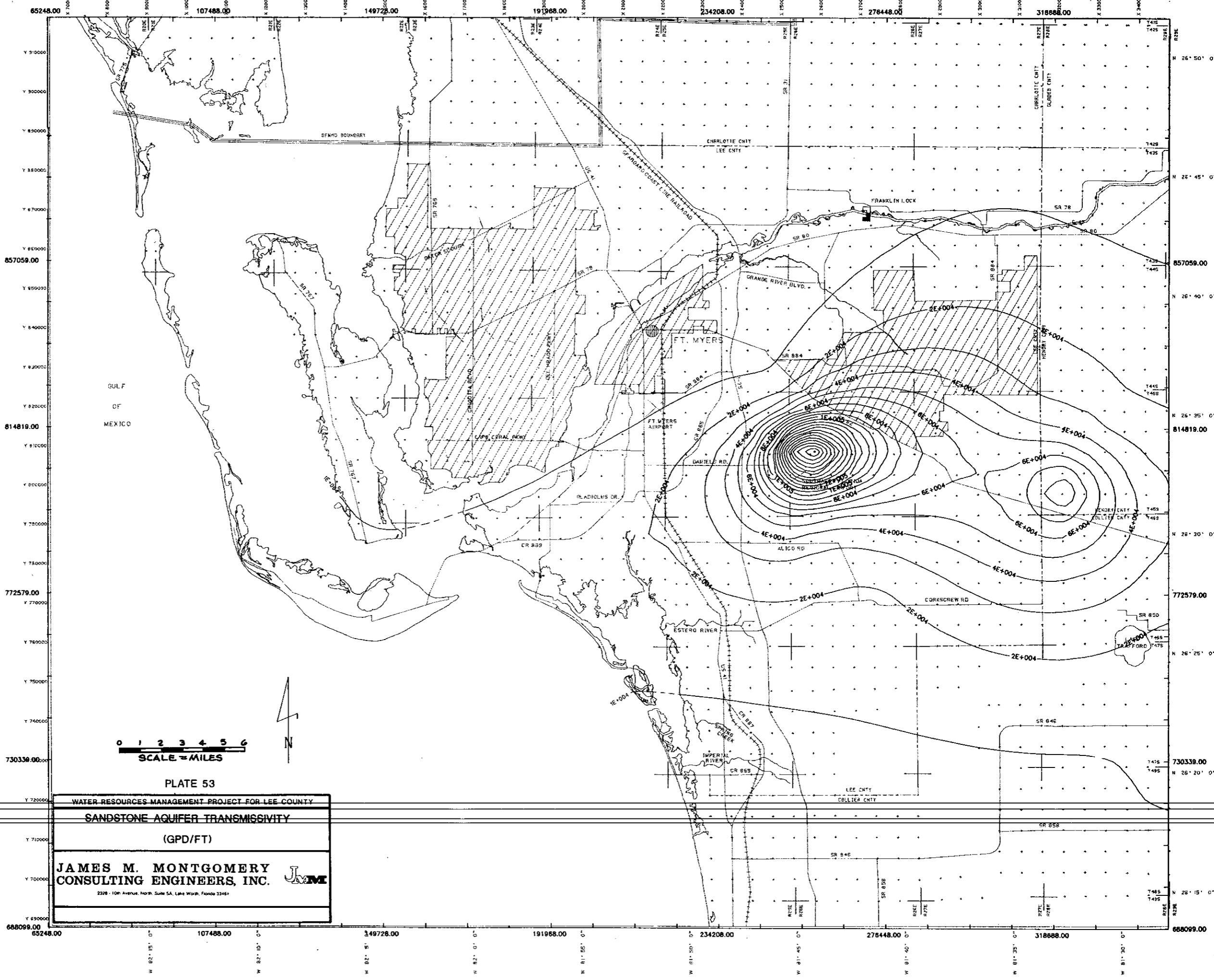


PLATE 51
 WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY
 LOWER TAMIAAMI AQUIFER
 TRANSMISSIVITY (GPD/FT)
JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC.
2228 - 10th Avenue, North, Suite 5A, Lake Wales, Florida 33461



0 1 2 3 4 5 6
 SCALE = MILES



65248.00
857059.00
814819.00
772579.00
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688099.00

0 1 2 3 4 5 6
SCALE = MILES

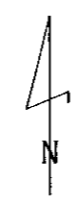


PLATE 53

WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY

SANDSTONE AQUIFER TRANSMISSIVITY

(GPD/FT)

JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC. *JMME*

2328 - 10th Avenue, North, Suite 5A, Lake Worth, Florida 33461

65248.00 107488.00 149728.00 191968.00 234208.00 276448.00 318688.00 688099.00

W 82° 15' 0" W 82° 0' 0" W 81° 55' 0" W 81° 50' 0" W 81° 45' 0" W 81° 40' 0" W 81° 35' 0" W 81° 30' 0"

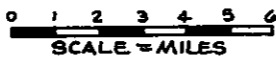
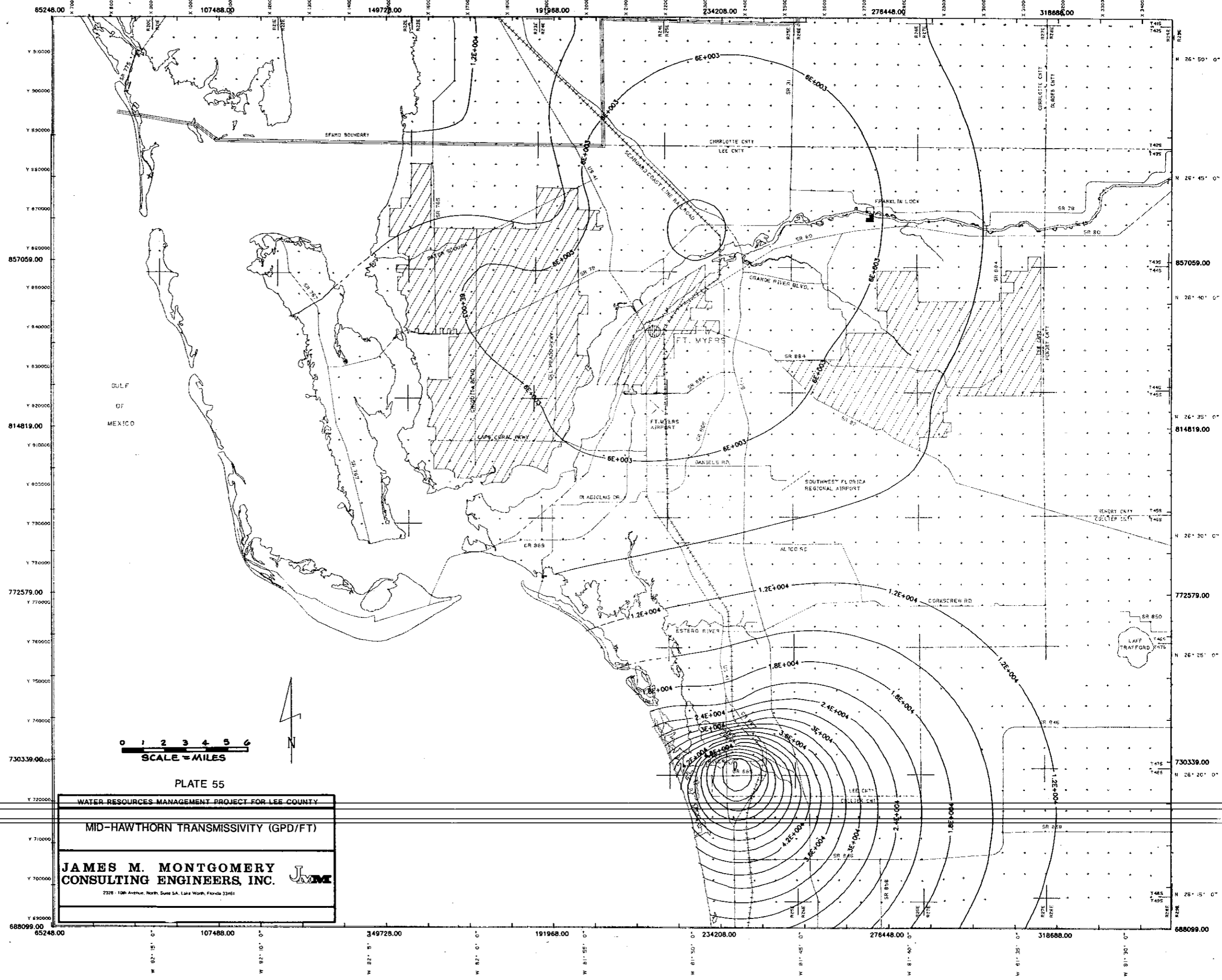


PLATE 55

WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY

MID-HAWTHORN TRANSMISSIVITY (GPD/FT)

JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC.

2228 - 10th Avenue, North, Suite 5A, Lake Worth, Florida 33461

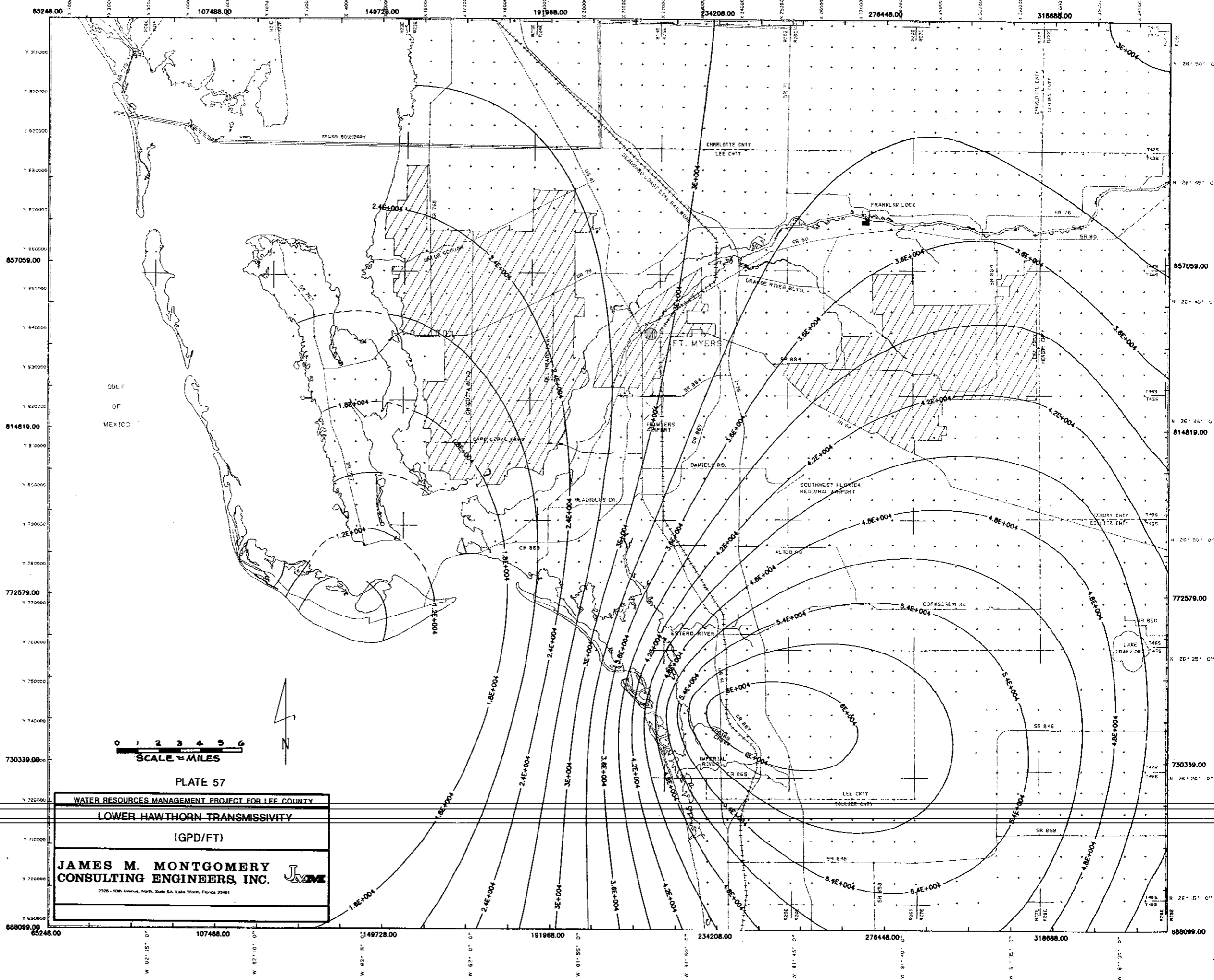


PLATE 57
WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY
LOWER HAWTHORN TRANSMISSIVITY
(GPD/FT)

JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC. *JMM*
2226 - 10th Avenue, North, Suite 5A, Lake Worth, Florida 33461

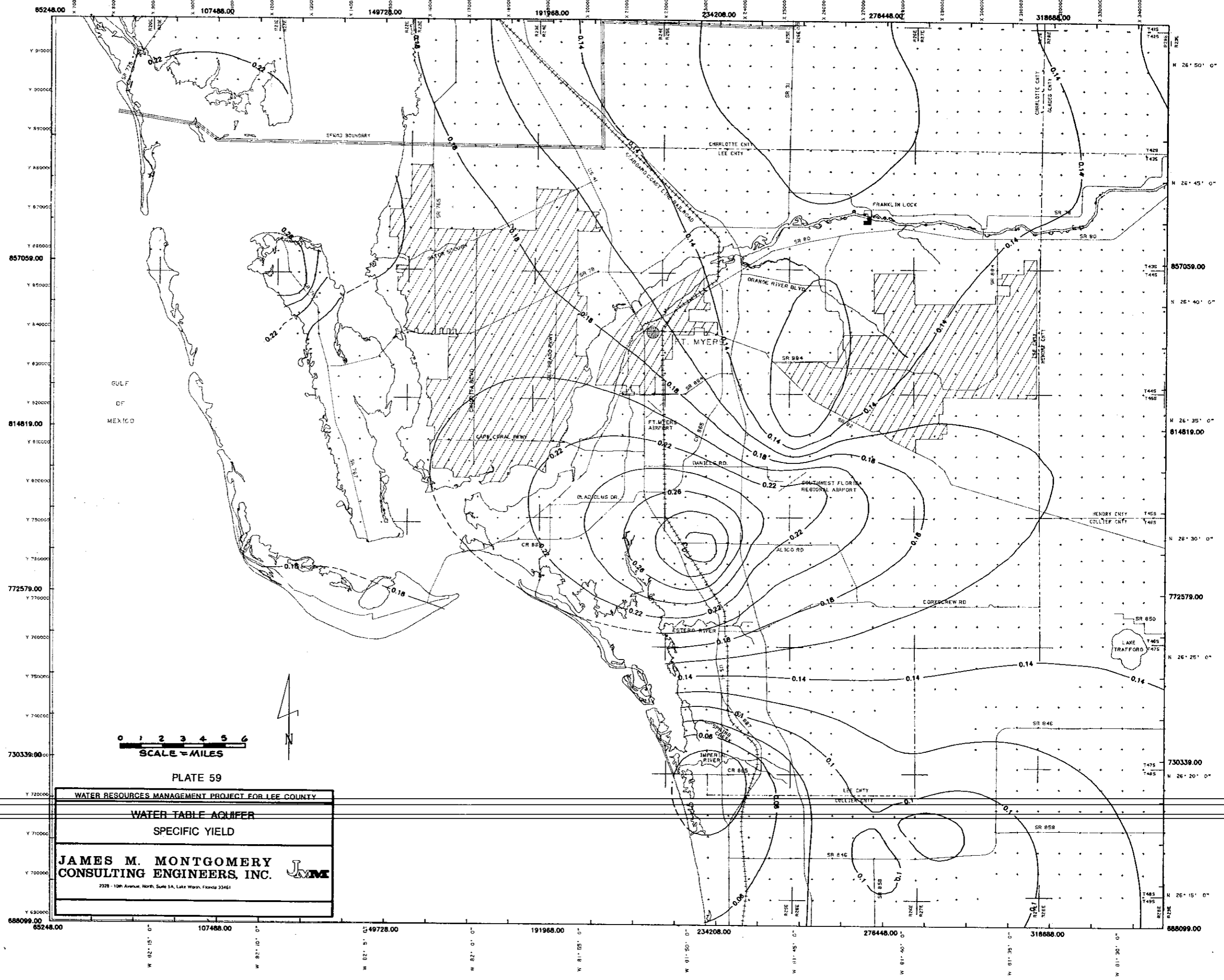


PLATE 59
 WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY
 WATER TABLE AQUIFER
 SPECIFIC YIELD
JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC. *JMM*
2325 - 10th Avenue, North, Suite 1A, Lake Wales, Florida 33461

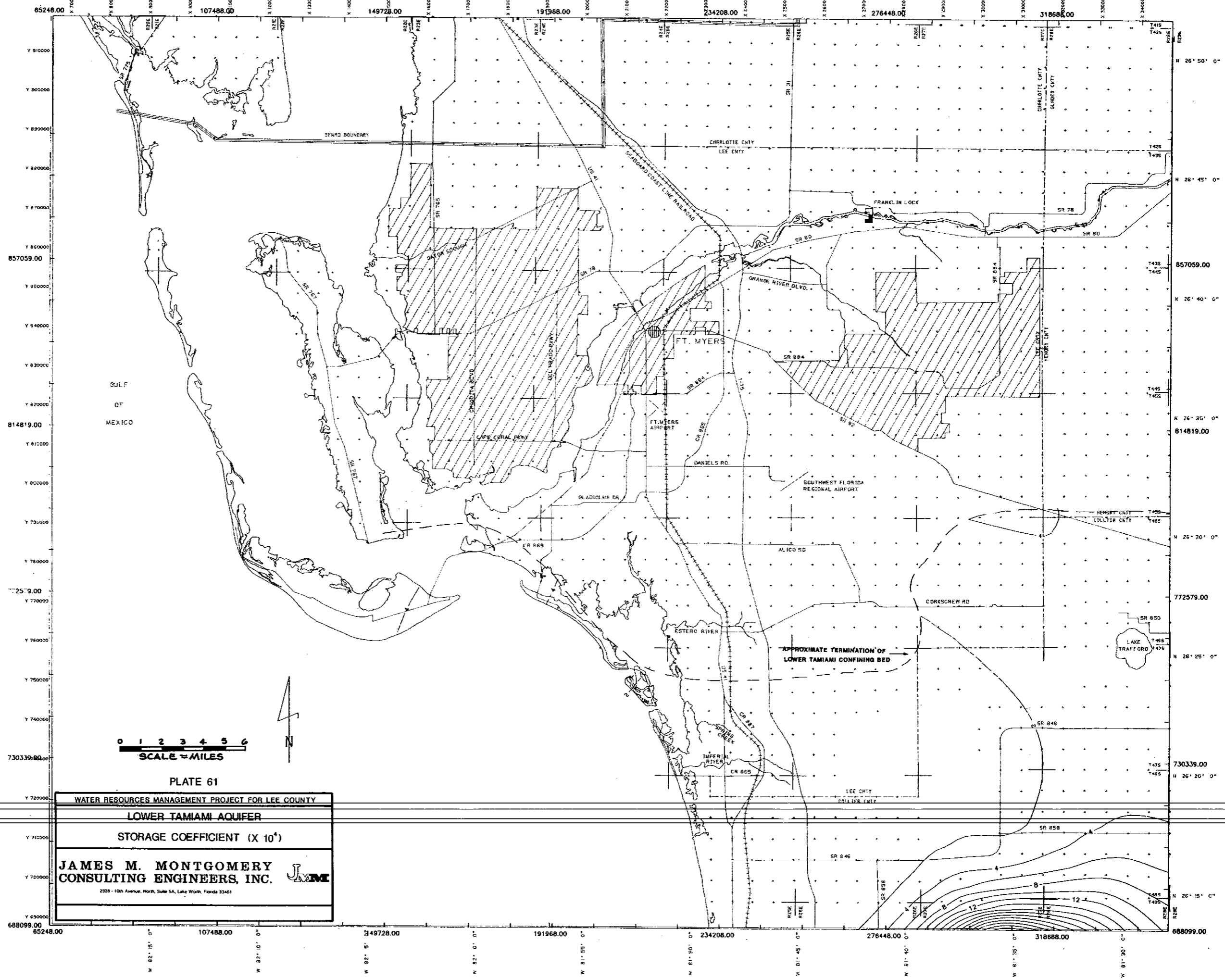


PLATE 61
WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY
LOWER TAMAMI AQUIFER
STORAGE COEFFICIENT (X 10⁴)
JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC. *JMM*
2228 - 10th Avenue, North, Suite 5A, Lake Worth, Florida 33461

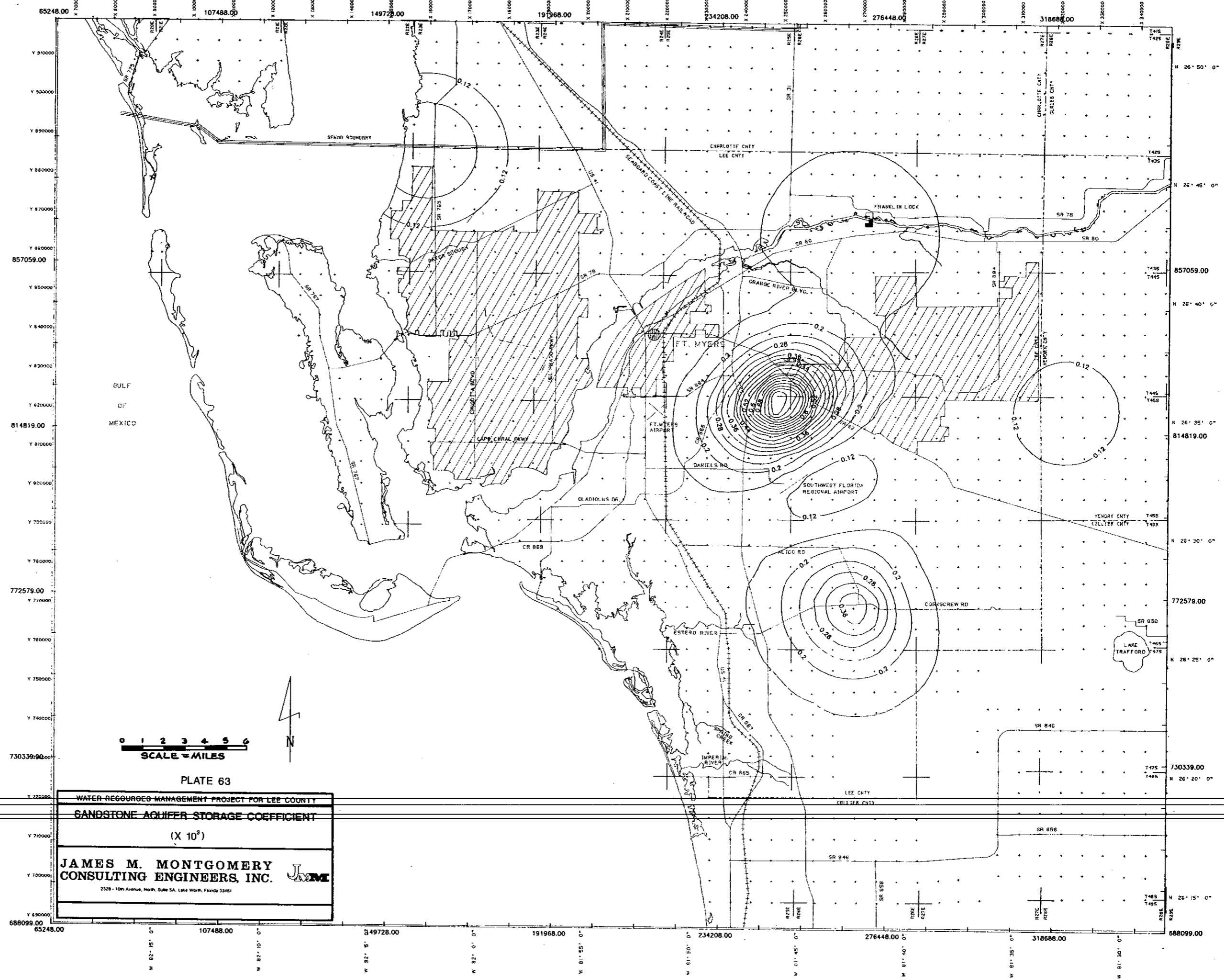


PLATE 63

WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY
SANDSTONE AQUIFER STORAGE COEFFICIENT
(X 10³)

**JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC.**

2328 - 10th Avenue, North, Suite 5A, Lake Worth, Florida 33461

65248.00 107488.00 149728.00 191968.00 234208.00 276448.00 318688.00

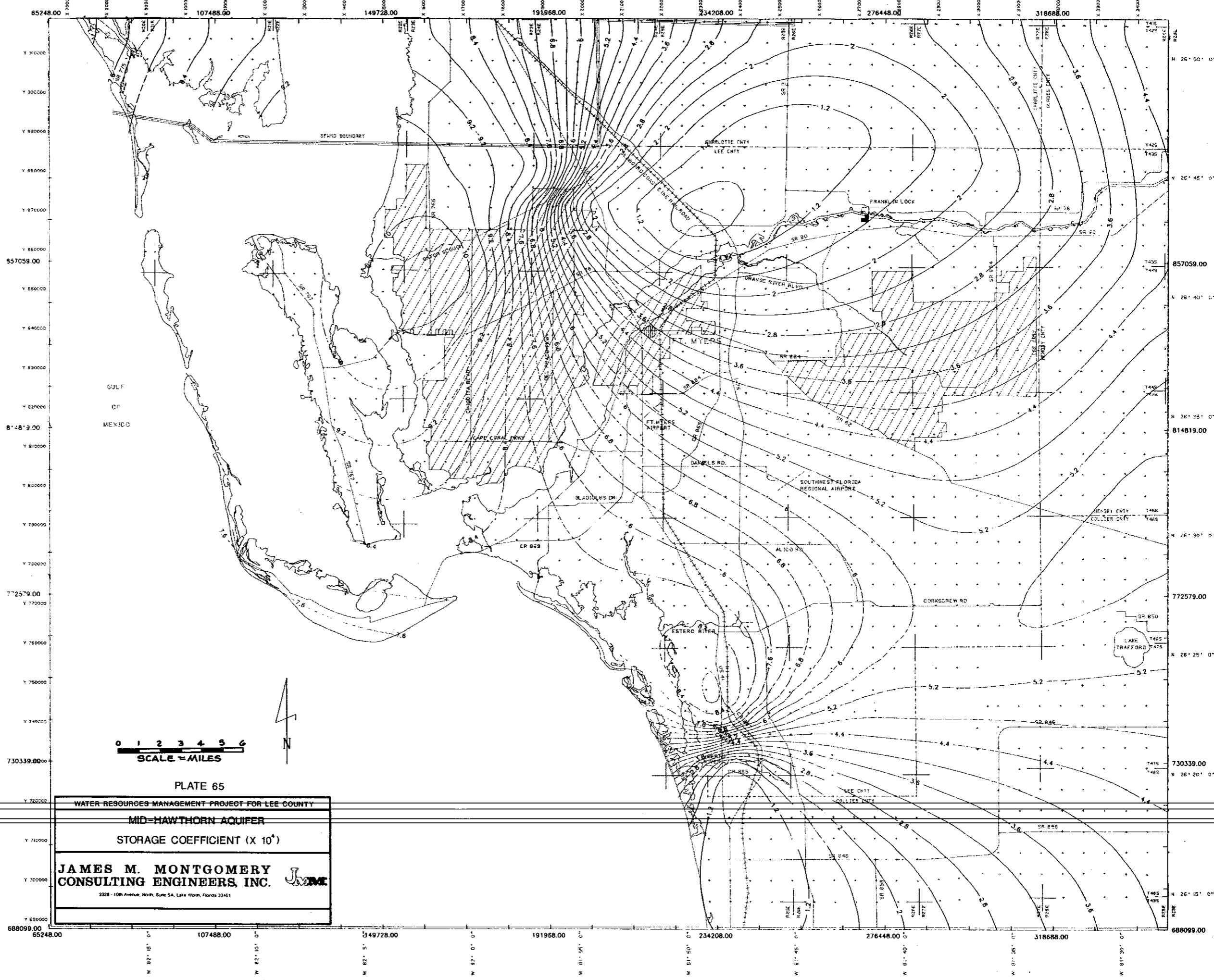
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N 26° 50' 0" N 26° 45' 0" N 26° 40' 0" N 26° 35' 0" N 26° 30' 0" N 26° 25' 0" N 26° 20' 0" N 26° 15' 0"

SPAIN BOUNDARY
CHARLOTTE CNTY LEE CNTY
FRANKLIN LOCK
ORANGE RIVER BLVD.
FT. MYERS
FT. WHEELER AIRPORT
DANIELS ISL.
SOUTHWEST FLORIDA REGIONAL AIRPORT
ESTERO RIVER
IMPERIAL RIVER
LAKE TRAFFORD

SR 78 SR 80 SR 84 SR 86 SR 88 SR 90 SR 92 SR 94 SR 96 SR 98 SR 100 SR 102 SR 104 SR 106 SR 108 SR 110 SR 112 SR 114 SR 116 SR 118 SR 120 SR 122 SR 124 SR 126 SR 128 SR 130 SR 132 SR 134 SR 136 SR 138 SR 140 SR 142 SR 144 SR 146 SR 148 SR 150 SR 152 SR 154 SR 156 SR 158 SR 160 SR 162 SR 164 SR 166 SR 168 SR 170 SR 172 SR 174 SR 176 SR 178 SR 180 SR 182 SR 184 SR 186 SR 188 SR 190 SR 192 SR 194 SR 196 SR 198 SR 200 SR 202 SR 204 SR 206 SR 208 SR 210 SR 212 SR 214 SR 216 SR 218 SR 220 SR 222 SR 224 SR 226 SR 228 SR 230 SR 232 SR 234 SR 236 SR 238 SR 240 SR 242 SR 244 SR 246 SR 248 SR 250 SR 252 SR 254 SR 256 SR 258 SR 260 SR 262 SR 264 SR 266 SR 268 SR 270 SR 272 SR 274 SR 276 SR 278 SR 280 SR 282 SR 284 SR 286 SR 288 SR 290 SR 292 SR 294 SR 296 SR 298 SR 300 SR 302 SR 304 SR 306 SR 308 SR 310 SR 312 SR 314 SR 316 SR 318 SR 320 SR 322 SR 324 SR 326 SR 328 SR 330 SR 332 SR 334 SR 336 SR 338 SR 340 SR 342 SR 344 SR 346 SR 348 SR 350 SR 352 SR 354 SR 356 SR 358 SR 360 SR 362 SR 364 SR 366 SR 368 SR 370 SR 372 SR 374 SR 376 SR 378 SR 380 SR 382 SR 384 SR 386 SR 388 SR 390 SR 392 SR 394 SR 396 SR 398 SR 400 SR 402 SR 404 SR 406 SR 408 SR 410 SR 412 SR 414 SR 416 SR 418 SR 420 SR 422 SR 424 SR 426 SR 428 SR 430 SR 432 SR 434 SR 436 SR 438 SR 440 SR 442 SR 444 SR 446 SR 448 SR 450 SR 452 SR 454 SR 456 SR 458 SR 460 SR 462 SR 464 SR 466 SR 468 SR 470 SR 472 SR 474 SR 476 SR 478 SR 480 SR 482 SR 484 SR 486 SR 488 SR 490 SR 492 SR 494 SR 496 SR 498 SR 500 SR 502 SR 504 SR 506 SR 508 SR 510 SR 512 SR 514 SR 516 SR 518 SR 520 SR 522 SR 524 SR 526 SR 528 SR 530 SR 532 SR 534 SR 536 SR 538 SR 540 SR 542 SR 544 SR 546 SR 548 SR 550 SR 552 SR 554 SR 556 SR 558 SR 560 SR 562 SR 564 SR 566 SR 568 SR 570 SR 572 SR 574 SR 576 SR 578 SR 580 SR 582 SR 584 SR 586 SR 588 SR 590 SR 592 SR 594 SR 596 SR 598 SR 600 SR 602 SR 604 SR 606 SR 608 SR 610 SR 612 SR 614 SR 616 SR 618 SR 620 SR 622 SR 624 SR 626 SR 628 SR 630 SR 632 SR 634 SR 636 SR 638 SR 640 SR 642 SR 644 SR 646 SR 648 SR 650 SR 652 SR 654 SR 656 SR 658 SR 660 SR 662 SR 664 SR 666 SR 668 SR 670 SR 672 SR 674 SR 676 SR 678 SR 680 SR 682 SR 684 SR 686 SR 688 SR 690 SR 692 SR 694 SR 696 SR 698 SR 700 SR 702 SR 704 SR 706 SR 708 SR 710 SR 712 SR 714 SR 716 SR 718 SR 720 SR 722 SR 724 SR 726 SR 728 SR 730 SR 732 SR 734 SR 736 SR 738 SR 740 SR 742 SR 744 SR 746 SR 748 SR 750 SR 752 SR 754 SR 756 SR 758 SR 760 SR 762 SR 764 SR 766 SR 768 SR 770 SR 772 SR 774 SR 776 SR 778 SR 780 SR 782 SR 784 SR 786 SR 788 SR 790 SR 792 SR 794 SR 796 SR 798 SR 800 SR 802 SR 804 SR 806 SR 808 SR 810 SR 812 SR 814 SR 816 SR 818 SR 820 SR 822 SR 824 SR 826 SR 828 SR 830 SR 832 SR 834 SR 836 SR 838 SR 840 SR 842 SR 844 SR 846 SR 848 SR 850 SR 852 SR 854 SR 856 SR 858 SR 860 SR 862 SR 864 SR 866 SR 868 SR 870 SR 872 SR 874 SR 876 SR 878 SR 880 SR 882 SR 884 SR 886 SR 888 SR 890 SR 892 SR 894 SR 896 SR 898 SR 900 SR 902 SR 904 SR 906 SR 908 SR 910 SR 912 SR 914 SR 916 SR 918 SR 920 SR 922 SR 924 SR 926 SR 928 SR 930 SR 932 SR 934 SR 936 SR 938 SR 940 SR 942 SR 944 SR 946 SR 948 SR 950 SR 952 SR 954 SR 956 SR 958 SR 960 SR 962 SR 964 SR 966 SR 968 SR 970 SR 972 SR 974 SR 976 SR 978 SR 980 SR 982 SR 984 SR 986 SR 988 SR 990 SR 992 SR 994 SR 996 SR 998 SR 1000



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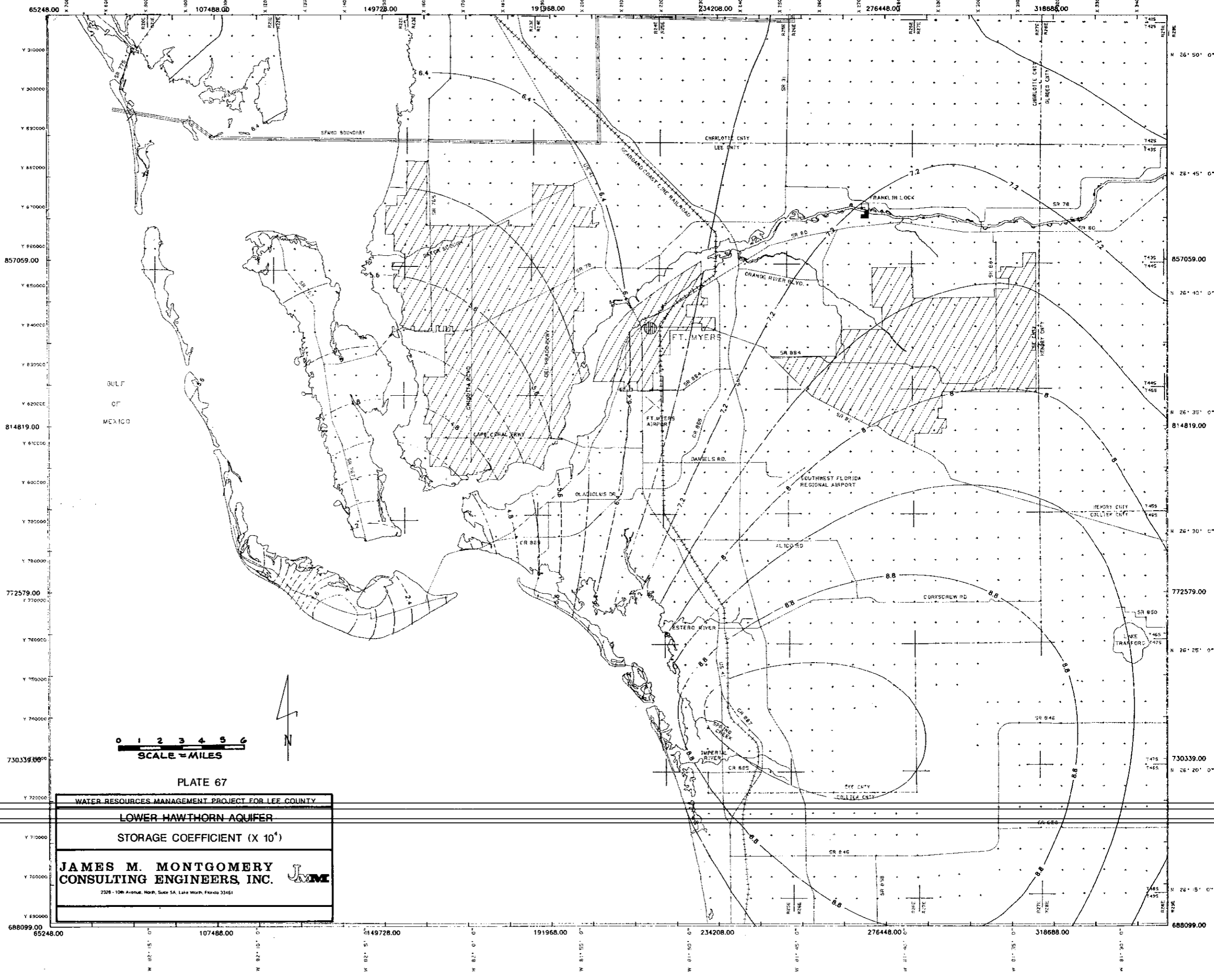
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SCALE = MILES

PLATE 65

WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY
MID-HAWTHORN AQUIFER
STORAGE COEFFICIENT (X 10⁴)

JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC. *JMM*
2328 - 10th Avenue, North, Suite 5A, Lake Worth, Florida 33461



65248.00
107488.00
149728.00
191968.00
234208.00
276448.00
318688.00
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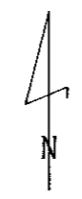
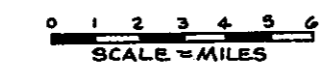



PLATE 67

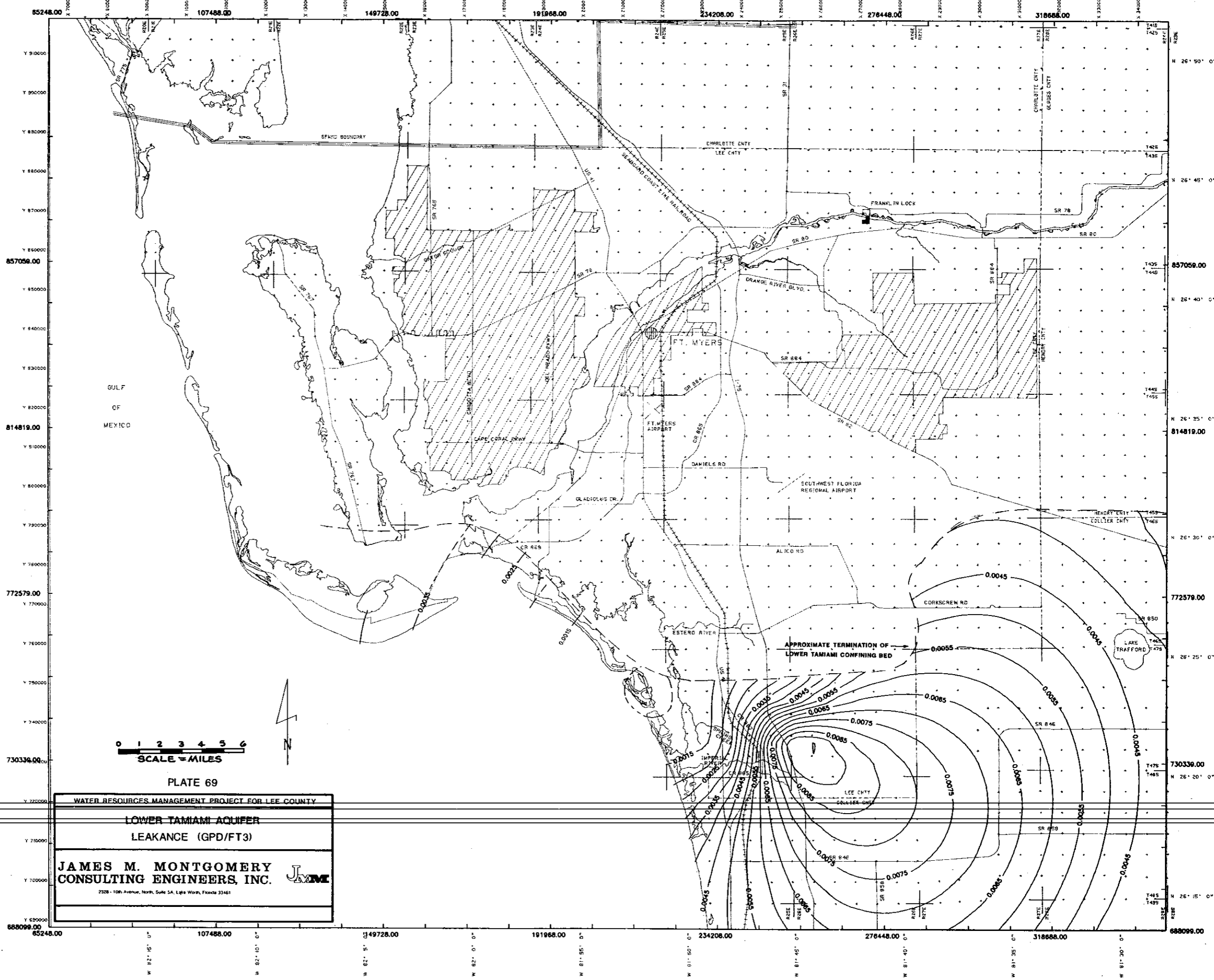
WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY

LOWER HAWTHORN AQUIFER

STORAGE COEFFICIENT (X 10⁴)

JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC. 

2328 - 10th Avenue, North, Suite 5A, Lake Worth, Florida 33461



85248.00
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191968.00
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688099.00
730339.00
772579.00
814819.00
857059.00
910000.00

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N 26° 25' 0"
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N 26° 15' 0"

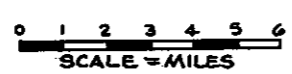
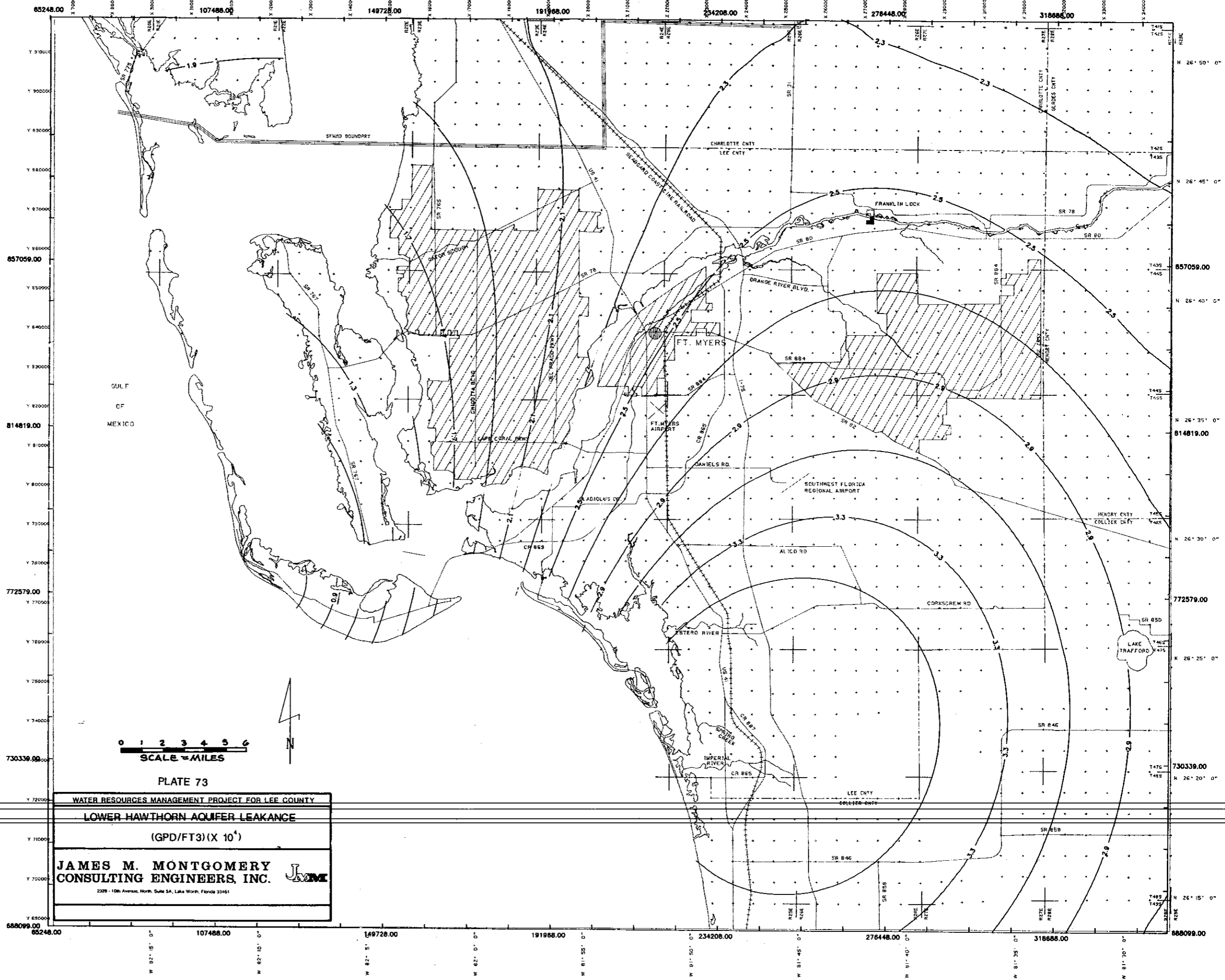


PLATE 69
 WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY
 LOWER TAMIAMI AQUIFER
 LEAKANCE (GPD/FT3)
JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC. *JMME*
 2320 - 10th Avenue, North, Suite 5A, Lido Wood, Florida 33461

W 82° 15' 0"
W 82° 10' 0"
W 82° 5' 0"
W 81° 55' 0"
W 81° 50' 0"
W 81° 45' 0"
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857059.00
814819.00
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65248.00 107488.00 149728.00 191968.00 234208.00 276448.00 316686.00 688099.00

W 92° 15' 0" W 82° 10' 0" W 82° 5' W 81° 55' 0" W 81° 50' 0" W 81° 45' 0" W 81° 40' 0" W 81° 35' 0" W 81° 30' 0"

N 26° 50' 0" N 26° 45' 0" N 26° 40' 0" N 26° 35' 0" N 26° 30' 0" N 26° 25' 0" N 26° 20' 0" N 26° 15' 0"

PLATE 73

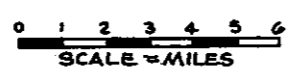
WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY

LOWER HAWTHORN AQUIFER LEAKANCE

(GPD/FT³)(X 10⁴)

JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC.

2226 - 10th Avenue, North, Suite 5A, Lake Worth, Florida 33461



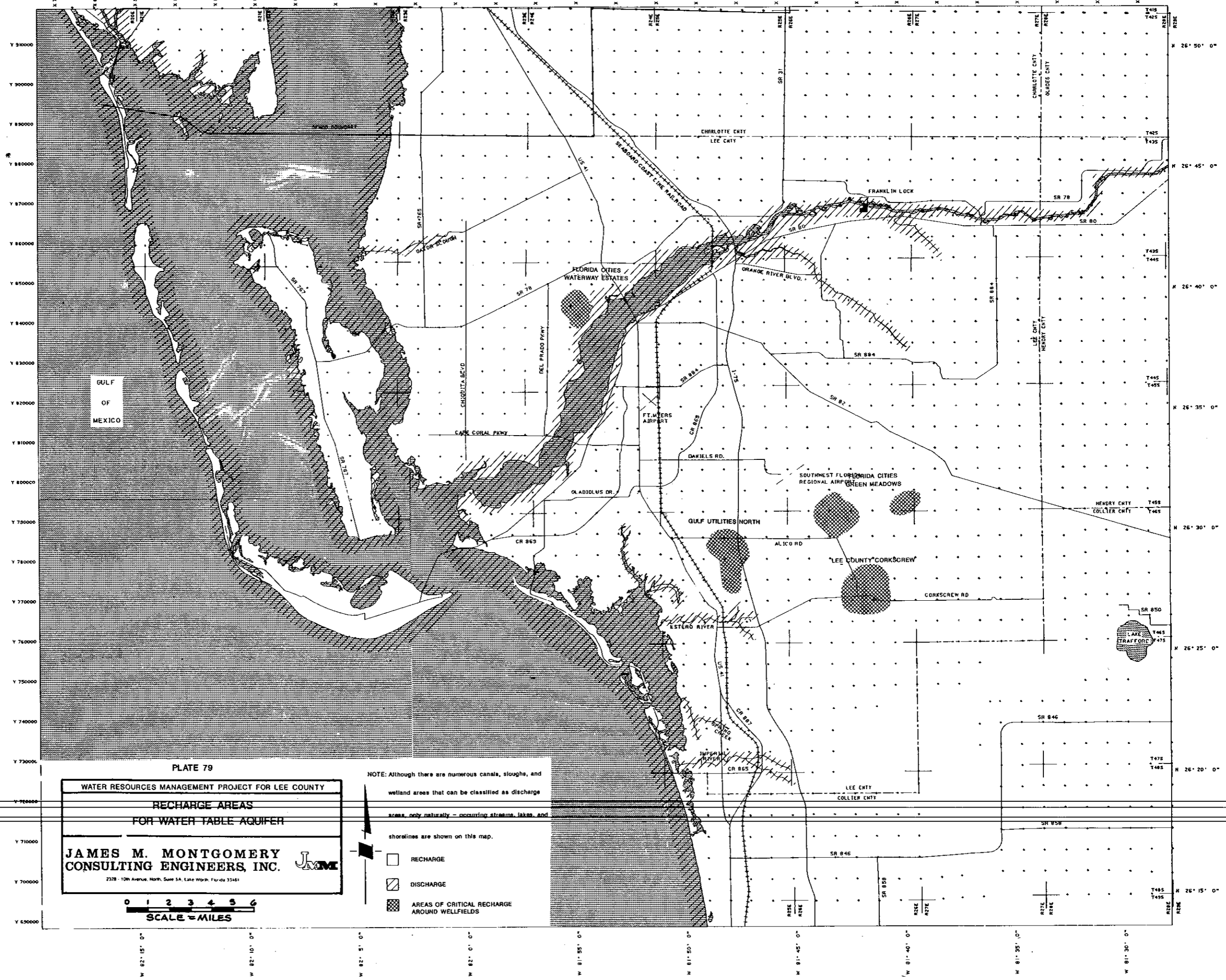


PLATE 79

WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY

**RECHARGE AREAS
FOR WATER TABLE AQUIFER**

**JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC.**

2128 - 12th Avenue, North, Suite 5A, Lake Worth, Florida 33461

0 1 2 3 4 5 6
SCALE = MILES

- NOTE: Although there are numerous canals, sloughs, and wetland areas that can be classified as discharge areas, only naturally-occurring streams, lakes, and shorelines are shown on this map.
- RECHARGE
 - DISCHARGE
 - AREAS OF CRITICAL RECHARGE AROUND WELLFIELDS

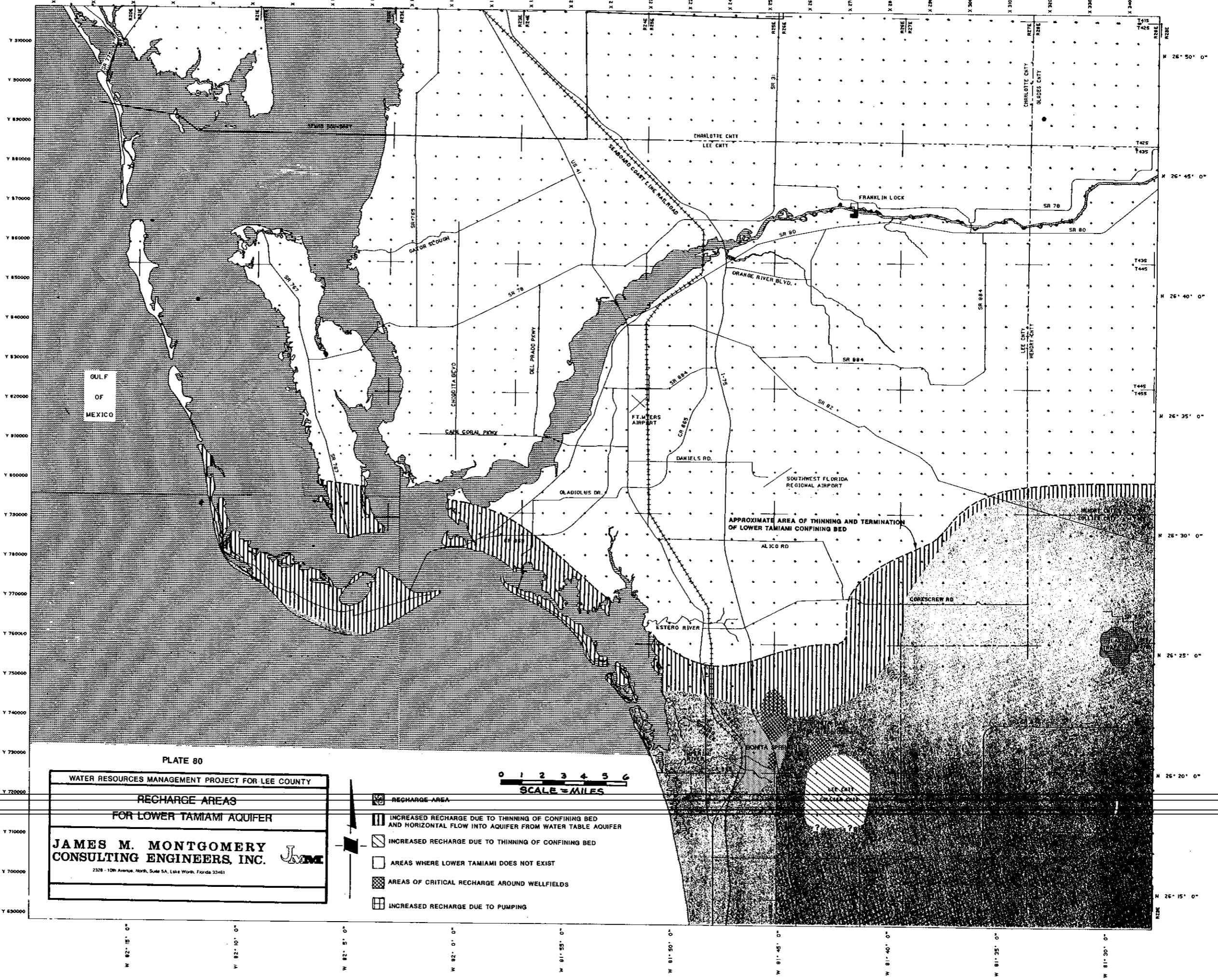
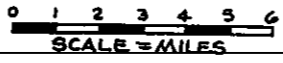


PLATE 80
 WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY
RECHARGE AREAS
FOR LOWER TAMIAMI AQUIFER
JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC.
2328 - 10th Avenue, North, Suite 5A, Lake Worth, Florida 33461



- RECHARGE AREA
- INCREASED RECHARGE DUE TO THINNING OF CONFINING BED AND HORIZONTAL FLOW INTO AQUIFER FROM WATER TABLE AQUIFER
- INCREASED RECHARGE DUE TO THINNING OF CONFINING BED
- AREAS WHERE LOWER TAMIAMI DOES NOT EXIST
- AREAS OF CRITICAL RECHARGE AROUND WELLFIELDS
- INCREASED RECHARGE DUE TO PUMPING

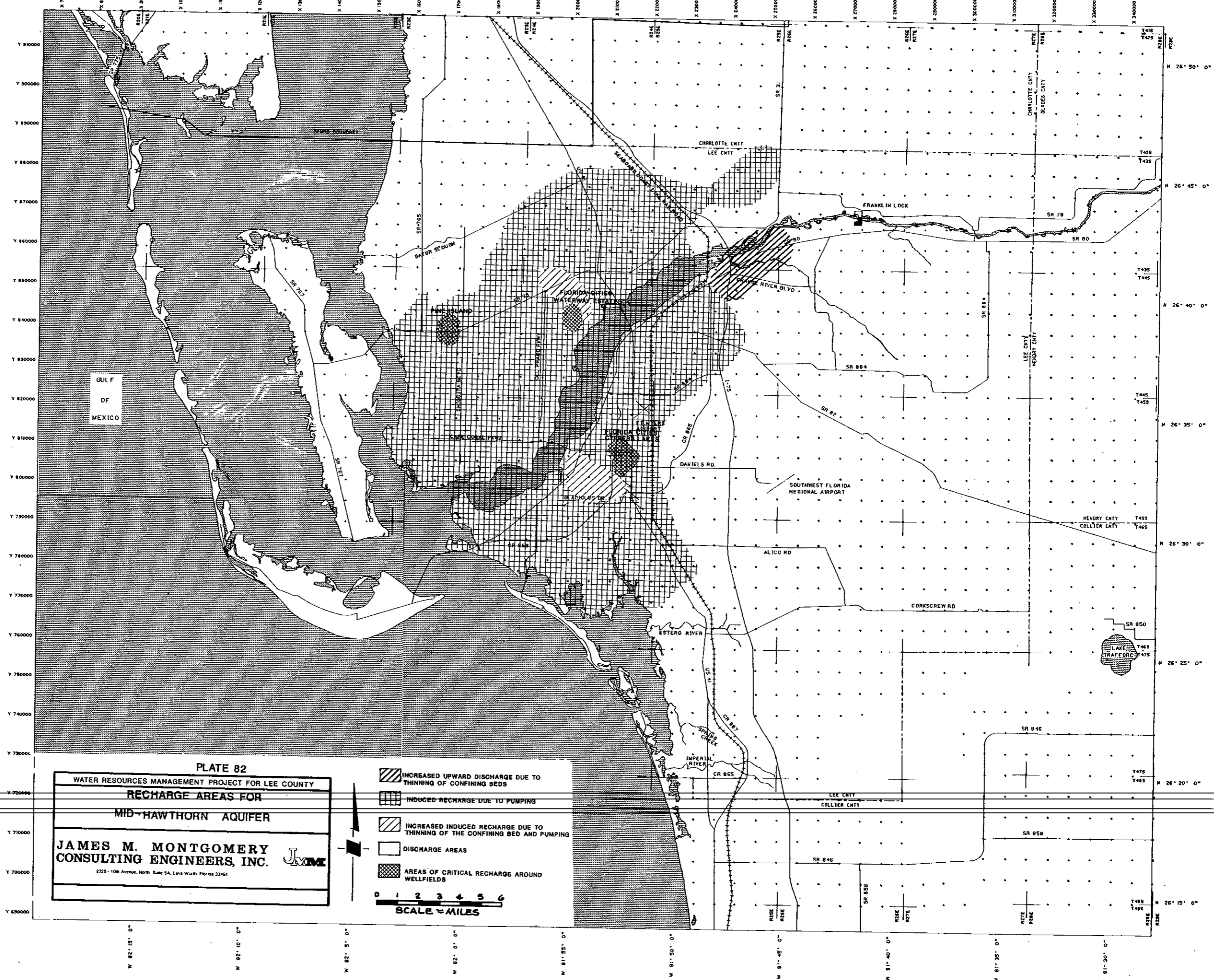


PLATE 82
WATER RESOURCES MANAGEMENT PROJECT FOR LEE COUNTY
RECHARGE AREAS FOR
MID-HAWTHORN AQUIFER

JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC. *JMM*
2325 - 10th Avenue, North, Suite 5A, Lake Worth, Florida 33461

- INCREASED UPWARD DISCHARGE DUE TO THINNING OF CONFINING BEDS
 - INDUCED RECHARGE DUE TO PUMPING
 - INCREASED INDUCED RECHARGE DUE TO THINNING OF THE CONFINING BED AND PUMPING
 - DISCHARGE AREAS
 - AREAS OF CRITICAL RECHARGE AROUND WELLFIELDS
- 0 1 2 3 4 5 6
SCALE = MILES