

Section 6 Report Review

Misfit

Attachment to letter dated August 07, 2002

Project: Map Historical Distribution of Texas Wild-Rice (*Zizania texana*)

Final or interim report? Final

Job #: WER 62

Reviewer's Station: Austin

Lead station was contacted and concurs with the following comments:

 Yes No X Not applicable (reviewer is from lead station)

Report: X is acceptable as is

 is acceptable as is for an interim report, but the following comments are made for future reference

 needs revision (listed below)

Comments: (Note to commenter: If you make comments directly on a copy of the report, write legibly and dark so comments will reproduce well when photocopied.)

We would like to thank Jackie Poole for her in depth research and monitoring efforts with Texas wild-rice (TWR) for the last 13 years. Her written descriptions and detailed tables for each segment of the river provides us with crucial information needed to construct a comprehensive Restoration Plan for this aquatic plant species. Because of long term monitoring, information on population trends and stand fragmentation is now available. We appreciate the years of good work and look forward to using this information on a continuing basis towards the recovery of Texas wild-rice.

FINAL REPORT

As Required by

THE ENDANGERED SPECIES PROGRAM

TEXAS

Grant No. E-1-13

Endangered and Threatened Species Conservation

**Project WER62 -- Map Historical Distribution
of Texas Wild-Rice (*Zizania texana*)
1989 to 1999**

Prepared by: Jackie M. Poole



John Herron
Program Director, Wildlife Diversity

Robert Cook
Executive Director

April 12th, 2002

FINAL REPORT

STATE: Texas

GRANT NO: E - I - 13

PROGRAM TITLE: Endangered and Threatened Species Conservation

PERIOD COVERED: September 1, 1989 – August 31, 1999

PROJECT NUMBER: WER62

PROJECT TITLE: Map Historical Distribution of Texas Wild-Rice
(Zizania texana) 1989 to 1999

PROJECT OBJECTIVES:

To map the historical distribution of Texas wild-rice from 1989 to 1999, and provide extent and area coverage of Texas wild-rice stands based on data availability.

PREPARED BY: Jackie M. Poole April 12th, 2002

APPROVED BY: 
Neil E. Carter
Federal Aid Coordinator
Texas Parks & Wildlife Department

6/14/02
Date

HISTORICAL DISTRIBUTION OF TEXAS WILD-RICE (*ZIZANIA TEXANA*) FROM 1989-2001

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INTRODUCTION: Texas wild-rice (*Zizania texana*) is an aquatic perennial grass (Poaceae) found only within the upper two miles of the San Marcos River (Figure 1). The area of its occurrence is almost entirely within the city limits of San Marcos in Hays County, Texas. This reach of the river, from its spring-fed headwaters to its confluence with the Blanco River, is remarkably clear and thermally constant. However cessation or diminution of spring flow, catastrophic flood events, several small dams, introduced non-native species, and the city of San Marcos with its associated recreation and pollution threaten the continued existence of Texas wild-rice. These and other threats led to the federal listing of this species (U.S. Fish and Wildlife Service 1978).

Historically Texas wild-rice was known from the upper San Marcos River, its irrigation canals, and Spring Lake (an impoundment at the spring headwaters) (Watkins 1930; Silveus 1933). By 1967 only one plant was known in Spring Lake and only scattered stands in the rest of the river (Emery 1967). The first quantified measurements of Texas wild-rice were done by Beaty who reported an aerial coverage of about 240 m² (Beaty 1975). In 1976 Emery produced the first map of the distribution of Texas wild-rice (Emery 1978). Emery also measured the coverage and calculated 1132.5 m² (Table 1; Emery 1977). Again he found no plants in Spring Lake, and scattered plants in the upper and lower segments of the upper two miles of the San Marcos River (Emery 1977; Emery 1978; Vaughan 1986). Although Emery measured coverage of wild-rice in 1978, he did not include the entire population as he had previously (Table 1; Vaughan 1986). Vaughan gathered coverage data using Emery's technique from 1983 to 1986 (Table 1; Vaughan 1986). Although the coverage fluctuated during those years, it was never higher than 541 m², a 50% decrease from Emery's 1976 data (Table 1; Vaughan 1986). Efforts to grow Texas wild-rice outside the San Marcos River have been mostly unsuccessful (Beaty 1976; Emery 1977; Terrell et al. 1978). A refugium collection has been established at the National Fish Hatchery and Technology Center in San Marcos and at the National Fish Hatchery in Uvalde, Texas. Several attempts to establish wild-rice within the San Marcos River or in cultivation in San Marcos have been successful (Beaty 1976; Emery 1977; Terrell et al. 1978; Vaughan 1986; Power 1996), although large-scale reintroduction projects have not been attempted.

Since 1989, Texas Parks and Wildlife (TPW) has been monitoring Texas wild-rice on an annual basis. Naturally occurring individual stands have been located using distance and bearing from witness points. Aerial coverage is

figured on the length, width, and percent cover of each stand. Within established segments of the river, stand coverages are combined to produce a total for each segment. Data has been compiled in this manner in late June or early July from 1989 to 2001 (Table 1).

METHODS: Naturally occurring stands of Texas wild-rice have been precisely located and measured on an annual basis in late June or early July since 1989. A stand is defined as one or more individual plants that are in physical contact. The location of each stand is measured from its upstream-most end in meters using a metric fiberglass tape, and in whole degrees (true north) using a Suunto sighting compass from a recorded reference point. During 1997 distances and bearings for stands in Segments A-G were measured using surveying equipment. During 1998 all segments were measured in this manner. In 1999 bearings were made using the surveying equipment, but distances were measured with the fiberglass tape. While surveying equipment is more accurate, the inherent difficulties with its use (training; difficult to maneuver in swift, deep water) made it less desirable. Although the tape and compass method is less accurate, it is much easier and less time-consuming. Originally witness points were either natural or cultural features, such as trees, concrete structures, etc. However the impermanence of these became obvious through time. A system of permanent, numbered, brass caps was installed and surveyed to centimeter accuracy in 1997 and 1998, and has been used to date.

To determine aerial coverage of stands, the length of the individual stands is measured from the upstream-most point of the stand to the downstream-most floating leaf tip. The width is measured at the widest point of the stand. This length and width create an imaginary rectangle that is used to determine the aerial coverage. Because the stand rarely occupies the entire rectangle, a percent cover is calculated. The percent cover is then multiplied by the length and the width to give an aerial coverage in square meters. Emery and Vaughan used a floating one meter quadrat to determine aerial coverage. However exactly how they used this is not known. In 1989 a floating one meter quadrat was used for the first few plants, but it was abandoned due to the difficulty of use and its time-consuming nature, both in the field and during data entry and calculation.

The river has been divided into segments that correspond primarily to cultural features (i.e., bridges, dams, etc.; see Figure 1). The original division was developed by Emery (Emery 1978), and was subsequently used by Vaughan (1986). Although TPW has changed the segment designations from numeric to alphabetic, the same segments are employed to facilitate comparisons between TPW data and that of Emery and Vaughan (Emery 1978; Vaughan 1986). Individual stands are identified by their alphabetic segment designation, and then numbered. Through the years, many new

stands have been discovered and many stands have fragmented. To make stand accounting easier, stand fragments are given a small case alphabetic designation tagged on the parent stand alphanumeric code (for example, B2d). New stands, depending on their placement, are either given the next consecutive number (for stands downstream of others in the segment) or have a decimal number added to the designation of their closest neighbor (such as C7.1). During the course of the study a cumbersome alphanumeric system was employed. However while analyzing the data and mapping it in Arcview, it was decided to number of the stands somewhat more logically. Appendix I lists all former stand designations by year, and what their equivalents are. The coverage of all stands within a segment is totaled to obtain coverage in square meters for the entire segment.

Data on stand number, distance, bearing, length, width, depth, and percent cover is entered into an Excel spreadsheet, and then through a specifically tailored software program attached by stand number to the reference point in an Arcview file. Thus all stands from all years can be shown graphically in reference to each other and to cultural and physical features on the landscape. Also by clicking on a stand, the entire history of that stand can be viewed. The boundary of the river, the location of the reference points, and certain cultural features were produced using commercial surveying equipment. Thus their precision is at the centimeter level.

Written descriptions of stand locations were recorded for most stands beginning in 1990. In these descriptions, stand proximity to the bank and objects on or near the river banks were noted. When referring to the river bank, the left and right bank refer to the banks as looking downstream. Thus on the maps the bank on the left side or top of the page is actually the right bank. During the production of the maps, stands sometimes did not fall where they were known to have been from either previous or subsequent data. Usually this was just a reversed angle (all too easily done with a sighting compass). However on several occasions angles and/or distances from previous or subsequent years were employed to match the stand locations with descriptions. Although stands do not align perfectly through the years, the stands are dynamic. Also the program that attaches the stand rectangle to the reference point, always places the attachment point in the center of the upstream-most width of the plant. In the natural setting the upstream-most end is far from ever centered. Thus side-to-side shifts in stands may occur. Overall however these discrepancies have been overcome by comparing stand location and written descriptions through the years. Stands may overlap as percent cover within the rectangles is rarely 100%.

RESULTS: Thirteen years' worth of data have been compiled and analyzed. Appendix 2 includes all stand attributes (length, width, depth, percent cover, aerial coverage) segregated by year for the years 1989 through 2001. Yearly

maps of stand location within the entire river are shown in Appendix 3. Annual changes in stand composition within segments (new, missing, reappearances, fragmentations, and coalescences as well as annual stand totals) are recorded in Appendix 4. In Appendix 5 individual stand placement and size at a larger scale is shown for smaller subsegments of the river. Finally Appendix 6 is a compilation of changes in aerial coverage for each stand from 1989 to 2001.

Below are segment descriptions that address the aerial coverage and stand changes within a given segment. When available, data from the studies of Emery and Vaughan (Emery 1978; Vaughan 1986) is included.

Segment A (Spring Lake Dam to University Drive): Neither Emery nor Vaughan recognized wild-rice as occurring in this segment (Emery 1978; Vaughan 1986). In 1989 there were three stands in this segment, just above the University Drive bridge, with an aerial coverage of 23.1 m^2 . In 1990 a new stand appeared, bringing the total to four stands. Coverage increased dramatically as stands increased in size and became denser (i.e., higher percent cover). Aerial cover more than doubled (236%) to 77.63 m^2 . In 1991 stand number remained constant, and coverage increased slightly (just over 7%) to 83.39 m^2 . In 1992 stand number remained at four, and although one stand was not relocated, another stand was discovered. However coverage declined dramatically by almost 59% to 34.23 m^2 due to a decrease in the length and width of two stands. In 1993 the stand missing in 1992 was relocated, bringing stand total back to five. Coverage increased (almost 13%) to 38.66 m^2 . In 1994 coverage decreased by over 10% to 34.43 m^2 . Stand number increased by one to six stands total, with one new stand found, one stand producing two fragments, and two stands disappearing. In 1995 coverage increased slightly by 4% to 35.93 m^2 . Two new stands were discovered, and a small stand produced a small fragment. Total stand number was nine. In 1996 coverage decreased by almost 12% to 31.7 m^2 . Three new stands found were offset by the loss of three stands. One stand coalesced with a fragment to yield a total of eight stands. In 1997 21 new stands appeared. Twenty of these stands appeared below the dam by the Spring Lake apartments where approximately 10,000 seeds were thrown into the river during the late summer of 1996. Although one small stand disappeared, total stand number was 28. There was an associated increase in coverage, almost 55%, to 48.99 m^2 . In 1998 four more new stands appeared, but three stands were lost. Four stands coalesced into two stands, and three stands coalesced into one. Total stand number was 25. Coverage continued to increase by just over 17% to 57.43 m^2 . In 1999 coverage increased by almost 32% to 75.77 m^2 and stand number increased to 29. The catastrophic fall flood of 1998 had little if any effect on this segment. Ten new stands were found, and one missing stand was relocated. One stand produced a fragment. Two

stands coalesced, and seven stands disappeared. In 2000 coverage barely increased (slightly over 2%) to 77.58 m². Stand number increased to 31, as two new stands were found and one was relocated. One stand produced another fragment, and two stands disappeared. In 2001 coverage increased by almost 35% to the all-time high coverage of 104.41 m². However stand number decreased to 30. One new stand was found, but two stands were lost. Two stands fragmented, producing one fragment each. One stand coalesced with a fragment and another stand.

Segment B (University Drive bridge to Hopkins road railroad bridge): Like Segment A, neither Emery nor Vaughan recognized any wild-rice in this segment (Emery 1978; Vaughan 1986). In 1989 coverage was 76.73 m² and there were 15 stands, all of which were between University Drive bridge and the first footbridge. In 1990 coverage had more than doubled (almost 112%) to 162.44 m². Three new stands were found downstream of Sewell Park, and four new stands were discovered within the park. Four stands could not be relocated, and two stands coalesced into one. Total number of stands stood at 17. In 1991 coverage increased again, by slightly over 46% to 237.8 m². Seven new stands appeared, and two stands reappeared. Two other lost stands appeared, but coalesced with a third stand. One stand fragmented, producing one fragment. One stand could not be relocated. Total number of stands increased to 26. In 1992 coverage decreased by almost 13% to 207.72 m². Although four new stands were found, seven stands disappeared. One stand fragmented, producing one fragment, and one stand coalesced with its two fragments. Stand total was 22. In 1993 coverage increased by almost 29% to 267.35 m². Twenty-four new stands appeared, and one stand reappeared. Only four stands disappeared. Three stands fragmented, two producing one fragment each, and one producing three fragments. Two stands coalesced, bringing the total to 47 stands. In 1994 coverage increased by 56% to 417.17 m². Thirty-six new stands appeared, and two stands reappeared. Two stands fragmented: one producing two fragments, and one producing five fragments. One stand coalesced with one fragment, and another stand coalesced with two fragments. Two independent stands coalesced. Eight stands disappeared, bringing the total to 80 stands. In 1995 coverage increased 23% to 513.07 m². Seventeen new stands were discovered, and one stand was relocated. Six stands fragmented with two producing one fragment each, one producing two fragments, two producing four fragments each, and one producing a record of eight fragments. Two independent stands coalesced, and three independent stands coalesced into one stand. Thirteen stands disappeared, bringing the total stand number to 102. In 1996 coverage increased only slightly over 8% to 555.06 m². Twenty-five new stands were found, and one stand reappeared. Four stands fragmented, with three stands producing one fragment each, and one stand producing three fragments. Sixteen stands coalesced into eight stands, three stands coalesced into one, and five stands coalesced into one.

Twenty-four stands disappeared, for a total of 96 stands. In 1997 coverage declined slightly by 6.4% to 519.68 m². Although 20 stands disappeared, 17 new stands were found and seven missing stands reappeared. In addition five stands fragmented: three producing one fragment each, one producing two fragments, and one producing four fragments. Six stands coalesced into three, four stands coalesced into one, and five stands coalesced into one. The overall total for this segment was 99 stands. In 1998 coverage increased 47% to 766.5 m². Thirteen new stands appeared and six stands were relocated. Only five stands fragmented, each producing one fragment. Six stands became three stands, and three sets of three stands became one stand each. Eleven stands combined to form one giant stand. Only six stands disappeared, bringing the total number of stands to 98. In 1999 after the catastrophic fall flood of 1998, coverage decreased by almost 14% to 661.81 m². Although coverage was down, 37 new stands were discovered and seven stands reappeared. Nine stands fragmented, with five stands producing one fragment each, three stands producing two fragments each, and one stand producing six fragments. Ten stands coalesced into one, four stands coalesced into one, and three stands also coalesced into one. Thirteen stands disappeared, giving a total of 132 stands. In 2000 coverage increased by almost 13% to 745.09 m². Seventeen new stands appeared, and seven stands reappeared. Eleven stands fragmented. Seven stands produced one fragment each, two stands produced two fragments each, one stand produced three fragments, and one stand produced four fragments. Six stands coalesced into three, seven coalesced into one, three sets of four stands coalesced into one stand each, and six stands coalesced into one. Twenty-four stands disappeared, bringing the total to 127. In 2001 coverage increased by 33% to an all-time high of 991.22 m². However total stand number decreased to 112, with 24 stands disappearing and 33 stands being lost to coalescence. Four stands coalesced into two stands. Three sets of three stands each coalesced into one stand. Nine stands coalesced into one, and 18 stands coalesced into one. Seven stands fragmented, with six producing one fragment each and one producing two fragments. Eight stands reappeared, and 26 new stands were found.

Segment C (Hopkins road railroad bridge to Rio Vista railroad bridge): In 1976 Emery observed 37 clones with a coverage of 554 m² in this segment (Emery 1978). Coverage declined to 463.50 m² in 1978, and had continued to decline in 1983 to 251 m², a decrease of over 45% (Vaughan 1986). In 1984 the decline was not as great (slightly over 9%), with coverage reduced to 228 m² (Vaughan 1986). In 1985 coverage still fell, to 217 m², but the decrease was almost imperceptible, almost 5% (Vaughan 1986). In 1986 the all-time low of 209 m² was reached, although the annual decline, almost 4%, was flattening out (Vaughan 1986). In 1989 there were nine stands in this segment with an aerial coverage of 326.83 m². Stands C4, C5, C6, C7, C8, and

C9 (see Appendix 4) matched the locations of some of Emery's mapped clones fairly well (Emery 1978). However in the case of stand C9, Emery (1978) indicated many more clones over a larger area than TPW observed in 1989. Emery (1978) also found five clones in the main channel below Snake Island, where stands were not found until 2000. In 1990 coverage almost doubled, increasing by over 46% to 477.94 m², and number of stands almost doubled to 17. Six new stands were found, and three stands fragmented, producing one fragment each. One stand disappeared. In 1991 coverage decreased about 22% to 392.02 m², and number of stands decreased to 13. Two stands disappeared, and two stands coalesced with their fragments. In 1992 coverage increased about 15% to 449.23 m², while stand number decreased to nine. Four stands disappeared. In 1993 coverage increased by slightly over 20% to 540.7 m², and number of stands increased to 13. One new stand appeared, and one stand was relocated. Two stands fragmented, producing one fragment each. In 1994 coverage decreased by slightly over 18% to 442.62 m², while number of stands increased to 14. Two new stands appeared, and one stand disappeared. In 1995 coverage increased by slightly over 16% to 514.34 m², and stand number increased to 15. Two stands fragmented, one producing one fragment and the other producing two fragments. Two stands coalesced with one fragment each. One stand reappeared, and one stand disappeared. In 1996 coverage decreased almost 11% to 459.95 m², and stand number also decreased to 14. One stand coalesced with two of its fragments, but also produced another fragment. Another stand also fragmented, producing one fragment. One stand disappeared. In 1997 coverage dropped just under 10% to 416.09 m², and stand number increased to 15. One stand fragmented, producing three fragments. Another stand coalesced with one fragment, but produced another. Two stands disappeared. In 1998 coverage increased very slightly (almost 2%) to 422.61 m², and stand number increased to 16. One stand coalesced with one fragment, but produced three more. One stand disappeared. In 1999 in spite of the catastrophic 1998 fall flood, coverage increased by almost 17% to 493.08 m². However stand number decreased to 14. One new stand appeared, probably a plant that washed down from upstream. One stand coalesced with its fragment, and another stand coalesced with two fragments. In 2000 coverage increased by slightly over 12% to 553.34 m², and number of stands increased to 19. Three new stands were found, while one stand disappeared. One stand coalesced with a fragment, and one stand produced another fragment. The largest stand, C5, produced three fragments. In 2001 coverage declined by almost 28% to 399.16 m², but stand number only decreased by one, to 18. The largest stand, C5, coalesced with two fragments, but also produced two new fragments. Another stand coalesced with a fragment.

Segment D (Rio Vista railroad bridge to Rio Vista Dam): Neither Emery, Vaughan, nor TPW has ever found any wild-rice in this segment (Emery 1978; Vaughan 1986).

Segment E (Rio Vista Dam to low point on south side of Glover's Island): In 1976 Emery observed 32 clones with a coverage of 55 m² (Emery 1978). Coverage dropped over 50% to 26 m² in 1978 (Emery 1978). In 1983 coverage increased slightly (by just over 11%) to 29 m² (Vaughan 1986). In 1984 coverage decreased slightly (almost 7%) to 27 m² (Vaughan 1986). In 1985 coverage decreased substantially (almost 30%) to 19 m², but coverage remained at this level in 1986 (Vaughan 1986). By 1989 coverage was back up to 81.33 m². Only 16 stands were observed in 1989 as compared to Emery's 32 from 1976 (Emery 1978). Emery (1978) found 13 clones above the Cheatham Street bridge where TPW found only five. The TPW stands were also closer to the bridge than most shown by Emery. In the part of the segment below the bridge, TPW found 10 stands in the area where Emery (1978) indicated 18 clones. There is exact correspondence between the last stand (TPW stand E14) in this segment, just above the segment break point, and a clone mapped by Emery (1978). In 1990 coverage declined by just over 10% to 72.4 m², and stand number decreased to 15 with the coalescence of two stands. In 1991 coverage increased by more than 50% to the all-time high of 109.81 m². However stand number actually decreased to 12 with the loss of two stands and the joining of two others. In 1992 coverage declined about 35% to 71.86 m², but stand number increased to 15 with the discovery of two stands, the production of two fragments by one stand, and the loss of one stand. In 1993 coverage increased slightly by just over 7% to 77.05 m², and stand number increased to 17. Six new stands were discovered, one stand reappeared, two stands coalesced, and four stands disappeared. In 1994 coverage declined by just over 18% to 62.85 m², and stand number increased to 22. Three new stands appeared, and two stands reappeared. Two stands coalesced, and two stands fragmented, producing two fragments each. Three stands disappeared. In 1995 coverage increased almost 30% to 81.16 m², and stand number increased to 31. Two new stands were discovered. Three stands fragmented. One stand produced one fragment, and two stands produced four fragments each. Two stands disappeared. In 1996 coverage decreased by about 10% to 72.83 m², and stand number decreased to 26. Two new stands appeared, and one stand reappeared. Three fragmented stands coalesced, including one with four fragments. One stand fragmented, producing one fragment. Three stands disappeared. In 1997 coverage increased slightly by about 5% to 76.34 m²; however stand number decreased to 22. Three new stands appeared. Seven stands coalesced into three, and three stands disappeared. In 1998 coverage decreased by about 11% to 67.75 m², but stand number increased to 32. Two new stands were discovered, and two stands reappeared. Four stands fragmented: two producing one fragment each, one

producing three fragments, and one producing five fragments. Four stands disappeared. In 1999 after the drastic fall flood of 1998, coverage decreased by almost 43% to 38.67 m², and stand number was cut in half to 16. Fifteen stands disappeared. Two stands fragmented: one producing one fragment and one producing two fragments. Seven stands coalesced into two stands (one stand coalesced with four fragments). One new stand was found. In 2000 coverage declined again, by just over 37% to 24.25 m², and stand number decreased slightly to 14. Four stands disappeared, one new stand was found, and a stand reappeared. In 2001 coverage continued to decline, by over 17% to the all-time low of 19.98 m². Stand number however increased to 19. Three new stands were found, and one stand reappeared. Three stands fragmented, producing one fragment each. Two stands disappeared.

Segment F: (low point on south side of Glover's Island to just above south I-35 access road): In 1976 Emery observed five clones in the upper portion of Segment F, in the area occupied by stands F1 through F4 (Emery 1978). In the lower portion of Segment F, Emery identified 15 clones where one of the largest stands (TPW stand F12) in the river occurs (Emery 1978). However Emery (1978) found no clones between these two areas whereas TPW found several additional stands. Emery estimated coverage of 164 m² in this segment (Emery 1978). Emery did not provide coverage for this segment in 1978 (Emery 1978). The reason for this is not known. When Vaughan began monitoring in 1983 cover had dropped by over 25 % to 119 m² (Vaughan 1986). Cover dropped again (slightly over 30%) in 1984 to the all-time low of 83 m² (Vaughan 1986). Coverage increased by almost 25% in 1985 to 103 m², but decreased slightly over 10% to 92.5 m² in 1986 (Vaughan 1986). In 1989 coverage increased dramatically (almost 200%) to 276.57 m². While the increased coverage might be due to the difference in methodologies used by Emery/Vaughan and TPW, this was not a consistent pattern across segments. Although TPW found only 12 stands in this segment as compared to the 20 clones that Emery (1978) located, TPW found stands scattered throughout this segment (where Emery did not). Most of Emery's 15 clones in the lower end of the segment (Emery 1978) might be equivalent to the extremely large TPW stand F12. Thus the increase might represent an increase in clone/stand number as well as additional area occupied by Texas wild-rice (i.e., the middle part of the segment). In 1990 three new stands were discovered below the large stand F12, one stand disappeared, and one stand fragmented in two, for a total of 15 stands. Coverage decreased slightly by about 13% to 241.9 m². In 1991 coverage recouped its loss, gaining just over 12% to 271.42 m². Stand number remained constant, with three new stands being balanced out by two losses and two stands coalescing. In 1992 coverage increased significantly (40%) to 380.08 m². Stand number also increased dramatically to 21 stands. Four new stands were discovered, two stands reappeared, two stands fragmented (producing two fragments each), and four

stands disappeared. In 1993 coverage continued to increase slightly (just over 13%) to the all-time high coverage of 429.44 m². Stand number decreased to 20, with two new stands appearing, one stand reappearing, and six fragments coalescing into two stands. In 1994 coverage declined steeply (37%) to 270.49 m². Although stand number only decreased by one to 19, four stands could not be relocated and two small stands coalesced. However these losses were weighed by three stands producing one fragment each and one new stand being discovered. In 1995 coverage decreased almost imperceptibly (2%) to 276.28 m². Stand number decreased to 17 due to the coalescence of four stands into two, and the one stand lost balanced out by one new stand found. In 1996 coverage remained essentially unchanged at 275.97 m². Stand number decreased to 15 with the loss of two stands. In 1997 coverage increased by about 22 % to 335.4 m². Stand number increased to 16, with the relocation of two stands and the loss of one stand. In 1998 coverage barely decreased by slightly over 2% to 327.6 m². However stand number increased to 21, primarily due to fragmentation (one stand produced one fragment, and one stand produced three fragments) but also to the discovery of a new stand. In 1999 even with the drastic fall flood of 1998 that reduced coverage in several segments, coverage increased very slightly by almost 4% to 339.49 m². However stand number did decrease to 17, with the loss of nine stands and the fragmentation of three stands (two producing two fragments each and one stand producing one fragment). Also a stand and a fragment coalesced, and one new stand was found. In 2000 coverage continued to increase slightly by just over 3% to 350.52 m², while stand number continued to decrease to 14. Three stands disappeared, two stands coalesced, one stand coalesced with two of its fragments, and two stands fragmented, producing one and two fragments each. In 2001 coverage continued to just barely increase, by over 2% to 359.42 m². Stand number remained constant at 14 although one new stand was found, one stand reappeared, two stands with one fragment each coalesced, one stand fragmented producing one fragment, and one stand disappeared.

Segment G (just above the southbound access road of I-35 to Capes' Dam): In 1976 Emery found 67.5 (68) m² and 29 clones (Emery 1978). Two of these appear to represent TPW stands G2 and G3, and probably TPW stand G1 is found among a cluster of plants upstream of the southbound access road. Interestingly Emery found eight plants above the southbound access road (where there have been one or two since), one plant between northbound I-35 and the northbound access road, four scattered plants between the northbound access road and Capes Dam, and 14 plants in the mill race canal just below the Capes Camp footbridge (Emery 1978). Since TPW began monitoring in 1989 no plants have been seen in the latter three areas (with the exception of one plant seen just below the northbound access in 1994 and 1995). Emery's 1978 monitoring showed that coverage declined over 51% to

33 m² (Vaughan 1986). Vaughan's monitoring showed that while the coverage increased by 12% to 37 m² in 1983, it declined sharply by 78% to 8 m² in 1984, and remained at this level in 1985 (Vaughan 1986). In 1986 coverage fell slightly by 6% to 7.5 m² (Vaughan 1986). When TPW began monitoring in 1989, coverage had more than doubled (148%) to 18.58 m². However this amount is still only about one-quarter of what Emery recorded in 1976, and only three stands remained as compared to Emery's 29 clones (Emery 1978; Vaughan 1986). The increase may be attributable to a change in methodology, especially in light of the fewer number of stands. In 1990 coverage barely increased (1%) to 18.83 m², and stand number remained at three. In 1991 coverage decreased by 32% to 12.88 m², as the three stands decreased in size. In 1992 coverage decreased slightly (2%) to 12.65 m², and stand number remained the same. In 1993 coverage increased by 60% to 20.25 m², as the one of the three stands increased dramatically in size. In 1994 coverage decreased again (13%) to 17.64 m², even though a new stand was found immediately downstream of I-35, bringing the total to four stands. The other three stands decreased in size. In 1995 coverage continued to decline (16%) to 14.74 m², as one of the four stands decreased in size by half. In 1996 coverage declined again (28%) to 10.64 m², as one stand decreased in size by half, and the stand below I-35 disappeared. In 1997 coverage made a modest increase (13%) to 11.98 m², with the three stands increasing slightly in size. In 1998 coverage increased dramatically (74%) to 20.8 m², as one of the three stands had a seven-fold increase in cover. In 1999 coverage increased (12%) to 23.26 m², and two stands fragmented, producing one fragment each, making a total of five stands. Even one of the fragmented stands became dramatically smaller, another stand increased in size. In 2000 coverage decreased (10%) to 20.85 m², even though the fragmented stands coalesced, bringing total stand number again to three. In 2001 coverage decreased drastically by 77% to 4.78 m², the lowest coverage ever recorded. One stand disappeared, two stands fragmented (one producing one fragment and another producing three fragments), and one new stand appeared upstream. Total stand number stood at seven. The reason for the coverage decline and the disappearance and fragmentation of stands was due to a fallen tree that became lodged over the stands. Either by blocking light or by uprooting stands during its travel downstream, the stands were lost, reduced in size, or fragmented.

Segment H (Capes' Dam to an east-west channel through Thompson's Island): Emery only found one small plant in this segment in 1976 with a coverage of only 0.5 m² (Emery 1978; Vaughan 1986). From his map it appears to be in the same general area as TPW stands H2 through H4. In 1978 and during Vaughan's 1983-1986 monitoring (Vaughan 1986), no stands were relocated in this segment. However in 1989 TPW located two stands in this segment: one very small stand not far below Cape's Dam and

the other in the area indicated by Emery. Coverage was 11.4 m^2 . In 1990 coverage increased slightly (4%) to 11.82 m^2 , and there was no change in stand number. In 1991 coverage decreased by 27% to 8.66 m^2 , due to the thinning of the larger stand. However two new small stands appeared, bringing stand total to four. In 1992 coverage increased by 12 % to 9.74 m^2 , even though the small stand below the dam could not be relocated, and the largest stand fragmented in two. Also one of the other smaller stands produced an even smaller fragment. However one of the small stands increased in size. Stand total was five. In 1993 coverage decreased dramatically by 86% to 1.32 m^2 . A very small piece of the stand below the dam was relocated. However the small stand and its fragment disappeared, and the stand that had increased in size the last year, became a very small stand once again. Although the largest stand coalesced with its fragment, another very small fragment was produced, and the stand was very thin with poor aerial coverage. Stand total dropped to four. In 1994 coverage almost tripled (183%) to 3.73 m^2 . A very tiny new plant was discovered just below Cape's Dam. However the other plant in the vicinity of the dam disappeared. Another small plant also disappeared downstream. Although the larger stand fragmented again, the larger stand became denser with a higher aerial coverage. Total number of stands remained at four. In 1995 coverage increased again (35%) to 5.03 m^2 . Although the tiny stand below the dam and one tiny fragment were lost, the remaining two stands increased slightly in size and fullness. In 1996 coverage decreased by 14% to 4.35 m^2 due to a slight decrease in stand size. Although one fragment was lost, a new fragment was produced; thus the total remained at two stands. In 1997 coverage decreased by 44% to 2.43 m^2 . The main stand produced two more fragments, and itself became much reduced in size and sparser. Total stand number was four. In 1998 coverage increased by 17% to 2.84 m^2 . A new stand appeared, bringing the total to five. In 1999 coverage increased slightly (3%) to 2.92 m^2 . The main stand produced two fragments, and became much reduced in size, bringing stand total to six. In 2000 coverage increased by 26% to 3.67 m^2 . Three stands coalesced into one much larger stand, and two very small stands coalesced into one small stand, bringing stand total to three. In 2001 coverage decreased dramatically by 73% to 0.98 m^2 as the three small stands united to form a larger, but very sparse stand.

Segment I (east-west channel through Thompson's Island to Hays County Road): In 1976 Emery recorded six clones in the same general area as TPW stands I2-I8 (Emery 1978; Vaughan 1986). He did not show any clones in the vicinity of TPW stand I1, but he recorded five clones in an overflow channel from the Mill Race irrigation canal (Emery 1978). Total aerial coverage was 9 m^2 (Emery 1978; Vaughan 1986). For unknown reasons, Emery did not record any data in this segment in 1978 (Vaughan 1986). In 1983 Vaughan recorded a coverage (4 m^2) that was less than half (56%) that of Emory's (Vaughan

1986). In 1984 coverage decreased again by 25% to 3 m² (Vaughan 1986). In 1985 coverage increased by 50% to 4.5 m² (Vaughan 1986). At the end of Vaughan's study in 1986 coverage was again 4 m², a decrease of 11% (Vaughan 1986). By 1989 coverage was at an all-time high of 12.86 m² (an increase of over 200%), and seven stands were located. In 1990 coverage decreased by 57% to 5.5 m², probably due to recreational trampling. One stand produced a fragment, and one new stand appeared, bringing stand total to 9. In 1991 coverage decreased dramatically by almost 75% to 1.4 m². Four stands disappeared, bringing stand total to 5. Again this loss was probably due to recreational trampling. In 1992 coverage decreased dramatically again by just over 85% to 0.21 m². Another four stands disappeared, bringing stand total to one. In 1993 coverage increased by slightly over 52% to 0.32 m². One stand reappeared, bringing stand total to two. In 1994 coverage decreased by almost 47% to 0.17 m². The stand that reappeared in 1993 disappeared for good, bringing stand total to one again. In 1995 coverage continued its downward spiral to 0.11 m², a loss of slightly over 35%, as the one stand left continued to decrease in size. In 1996 coverage decreased again, this time by almost 42%, to 0.064 m², as the one stand became just a few leaves. In 1997 the stand finally disappeared, and no plants have been seen since in this segment.

Segment X (Hays County Road to mill dam, irrigation canal): Neither Emery nor Vaughan found Texas wild-rice in this area (Emery 1978; Vaughan 1986). However in 1989 one stand with a coverage of 1.04 m² was located between the Hays County Road bridge and the mill dam. The stand disappeared by 1990.

Segment J (Hays County Road to just below confluence of natural and irrigation channels): Emery mapped 39 clones with an aerial coverage of 49 m² in this segment of the river in 1976 (Emery 1978; Vaughan 1986). His three clones in the upper part of the segment (Emery 1978) correspond with the two uppermost stands found by TPW in 1989. Emery (1978) shows three more clones at the first bend where TPW found one stand in 1989. In the area above the hatchery intake where TPW found four plants in 1989, Emery had indicated five clones in 1976 (Emery 1978). In the area of the hatchery intake and downstream to the confluence with the hatchery outfall, Emery showed 16 clones (Emery 1978). One of these was removed in the early 1980s for the intake structure, and the plant was given to researchers at Southwest Texas State University. By 1989 TPW found only five stands in this area. From below the confluence with the fish hatchery outfall to the confluence of the main channel with the mill race channel, Emery located 13 clones, mostly at the lower end (Emery 1978). In 1989 TPW found 14 stands, but the stands were more evenly distributed along this stretch of the river. No data was reported by Emery in 1978 (Vaughan 1986). Vaughan's aerial coverage in

1983 was only slightly down (just slightly over 6%) to 46 m² from that of Emery's 1976 figures (Vaughan 1986). In 1984 coverage decreased by slightly over 39% to 28 m² (Vaughan 1986). However in 1985 coverage increased dramatically by almost 150% to 68 m² (Vaughan 1986). This increase was short-lived as coverage dropped again in 1986 by almost 20% to 55 m² (Vaughan 1986). When TPW began monitoring in 1989, 27 stands with an aerial coverage of 95.03 m² were identified. Although two stands went missing, six stands coalesced into three stands, and one stand fragmented into two very small stands, coverage in 1990 increased by almost 27% to the all-time high of 120.46 m². Stand total decreased to 23. Coverage decreased by slightly less than 3% to 117.01 m² in 1991, with three more stands missing and a new one discovered for a stand total of 21. Coverage remained almost identical in 1992 at 117.39 m² (less than a 1% change), although two stands were lost and one stand fragmented, for a total of 20 stands. Coverage decreased by almost 18% to 96.57 m² in 1993. Although one stand was relocated and one stand reappeared, five stands disappeared and two stands produced one fragment each. Total stand number stood at 19. Coverage dropped again in 1994, this time by 21% to 76.22 m². One stand disappeared, but one stand reappeared. Thus stand total remained the same at 19. Coverage decreased by almost 39% to 46.58 m² in 1995. Five stands disappeared, four stands reappeared, five stands produced one fragment each, one stand produced two fragments, and one stand produced three fragments, for a stand total of 28. Coverage declined only 20% to 36.96 m² in 1996. Eight stands disappeared, three stands reappeared, one stand produced one fragment, and one stand produced two fragments, for a total of 26 stands. In 1997 coverage remained essentially the same at 36.99 m² (less than 0.1%) even though nine stands disappeared. One new stand appeared and two missing fragments reappeared. One stand coalesced with its two fragments, and one stand coalesced with a fragment. Two stands fragmented, one producing one fragment and another producing two fragments. Stand total was 20. Coverage actually increased by almost 25% to 48.82 m² in 1998. One new stand appeared, and a missing stand reappeared. Two stands each coalesced with one fragment, and two independent stands coalesced into one. No stands disappeared, for a total stand number of 19. Coverage decreased by 85% to 7.33 m² in 1999 due to the drastic flood of fall 1998. Twelve stands disappeared, one stand produced one fragment, two small stands appeared, and one fragment reappeared. Only 11 stands remained. In 2000 coverage dropped another 15% to 6.22 m². Four more stands disappeared, one stand produced one fragment, a stand reappeared, and a new stand was found. Total stand number was 10. Coverage was up slightly by almost 8% to 6.7 m² in 2001 even though three stands disappeared. One stand coalesced with its fragment, and a new stand was located, bringing the total number of stands to seven.

Segment K (just below confluence of natural and irrigation channels to just below transmission lines): In 1976 Emery located 62 clones in K segment with a coverage of 233.5 m² (Emery 1978). For unknown reasons Emery did not record data for this segment in 1978 (Vaughan 1986). However when Vaughan assessed this segment in 1983, coverage had dropped drastically (by over 76%) to 55 m² (Vaughan 1986). The decline was as dramatic in 1984 when the coverage fell by almost 73% to 15 m² (Vaughan 1986). A striking rebound took place in 1985 with coverage increasing by 363% to 69.5 m² (Vaughan 1986). Coverage remained almost identical in 1986 (only a 3.6% decrease) with 67 m² (Vaughan 1986). In 1989 TPW found 45 stands in the river as compared to the 62 clones found by Emery in 1976 (Emery 1978). However the distribution of stands in K segment has changed dramatically since that time. In the upper 150 m of K segment, Emery found 18 clones in 1976 (Emery 1978) while TPW found 20 stands in 1989. In the next approximately 100 m river stretch, Emery located eight clones (Emery 1978) but only four stands were found by TPW in 1989. In the next 50 m river stretch, Emery found no clones (Emery 1978), but four stands were located in 1989 by TPW. In the next approximately 100 m, Emery found 20 stands (Emery 1978), but only eight stands were seen in 1989. In the next 50 m of the river, Emery saw three clones in 1976 (Emery 1978), but no stands were seen there in 1989. In the last 100 m of this segment, Emery found 13 stands (Emery 1978), and only nine stands were located there in 1989. A total aerial coverage of 77.14 m² was observed in 1989 by TPW which compares favorably with Vaughan's last total of 67 m² (Vaughan 1986) but not with Emery's 1976 amount of 233.5 m² (Emery 1978). In 1990 nine new stands were discovered, four stands disappeared, and two stands fragmented, producing one fragment each, for a total of 52 stands. Coverage increased dramatically by about 150% to 191.02 m². In 1991 three new stands were discovered, one stand reappeared, two stands coalesced into one, two stands produced one fragment each, and 11 stands disappeared, for a total of 46. Coverage decreased by about 10% to 171.52 m². In 1992 two new stands were discovered, one stand reappeared, one fragmented stand coalesced, and five stands disappeared for a total of 43 stands. Coverage decreased by almost 30% to 122.56 m². In 1993 three new stands were found, four stands reappeared, two stands grew together, three stands fragmented, two produced one fragment each and one stand produced two fragments, and 12 stands disappeared, for a total of 41 stands. Coverage increased slightly, up about 11% to 136.21 m². In 1994 five new stands were located, two stands reappeared, a fragmented stand coalesced, two stands fragmented, one produced one fragment, and one produced two fragments, and five stands disappeared, for a total of 44 stands. Coverage decreased slightly by 5% to 129.5 m². In 1995 two new stands were discovered, two stands reappeared, four stands fragmented (one stand produced one fragment, two stands produced two fragments each, and one stand produced three fragments), and seven disappeared, for a total of 49.

stands. Coverage increased slightly by 5% to 136.24 m². In 1996 one new stand was found, four stands reappeared, three stands coalesced (two stands with one fragment each, and one stand with two fragments), five stands fragmented (four stands produced one fragment each, and one stand produced two fragments), and eight stands disappeared, for a total of 48 stands. Coverage increased dramatically by almost 50% to 202.6 m². In 1997 one stand reappeared, eight stands (four groups of two stands each) coalesced, one stand fragmented producing two fragments, and 16 stands disappeared, for a total of 31 stands. Coverage decreased by about 34% to 134.39 m². In 1998 four new stands were found, seven stands reappeared, one stand and its two associated fragments coalesced, and four stands fragmented (two stands producing one fragment each, one stand producing two fragments, and one stand producing three fragments), for a total of 47 stands. Coverage increased dramatically by 75% to an all-time high of 234.9 m². In 1999 after the devastating fall flood of 1998 two new stands were located, one stand fragmented producing one fragment, and 41 stands disappeared, leaving a total of nine stands. Coverage decreased drastically by almost 99% to an all-time low of 2.55 m². In 2000 four new stands were discovered, one stand reappeared, and another two stands disappeared, for a total of 12 stands. Coverage almost tripled to 9.56 m². In 2001 stand number remained constant at 12 stands while coverage decreased slightly by 6% to 8.97.

Segment L (just below transmission lines to sewage treatment plant outfall): Neither Emery nor Vaughan reported any Texas wild-rice from the transmission lines to the sewage treatment plant (Emery 1978; Vaughan 1986). However Texas Parks and Wildlife found up to three stands in this area between 1989 and 1997. In 1989 one stand was found just upstream of the sewage treatment plant with an aerial coverage of 2.84 m². In 1990 the one stand decreased dramatically by almost 85% to 0.43 m². In 1991 the one stand continued to decrease in size (almost 33%) to 0.29 m². In 1992 the one stand increased in size (almost 14%) to 0.33 m². In 1993 the one stand increased in size again (almost 58%) to 0.52 m². In 1994 another stand was found farther upstream, bringing the total for this segment to two stands. Coverage increased to 1.52 m², an almost 200% increase. In 1995 the upstream-most plant disappeared, leaving stand total at one plant. Coverage decreased by almost 200% back to 0.52 m². In 1996 the missing stand reappeared, another stand appeared, and the stand nearest the sewage treatment disappeared, bringing stand total to two. Coverage increased by 275% to 1.95 m². In 1997 the two upstream plants coalesced, leaving just one stand. Coverage decreased slightly (just over 4%) to 1.87 m². In 1998 the stand disappeared.

Segment M (Sewage treatment plant outfall to Blanco River confluence): Emery reported one clone from approximately 400 m below the sewage treatment outfall on the north bank at the entrance to a 10 foot in diameter pipe (Emery 1976). Vaughan did not report any Texas wild-rice from below the sewage treatment plant (Vaughan 1986). In 1989 one plant was found downstream of the sewage treatment plant along the south bank near an ash in an opening near a major bend. The plant disappeared in 1990.

DISCUSSION: With the advent of GIS and software programs such as Arcview, it has become possible to precisely map the locations of objects. Although GPS equipment exists that allows mapping to centimeter accuracy, such equipment is prohibitively expensive (\$20,000+) and is not water-proof. Less costly GPS equipment (\$200-\$4,000, also not water-proof) is at best accurate to about one meter, and is usually in the three to five meter range. By using the system of permanent monument points surveyed to centimeter accuracy and considering a few centimeters from the stretch of a fiberglass tape, the distance would be less than 5 cm off. Normal bearing errors would be in the $\pm 2^\circ$ range. However the sighting compass is only as accurate as the user. Using a largely volunteer workforce it often happens that readings are not as accurate as possible. Also bearing errors increase with distance: for every degree of error, at a distance of 6 m, the point will be 10 cm off. Thus if the bearing is anywhere from 1 to 10° off, the point could be off 0.1 to 1 m at a distance of 6 m and as much 10 m at a distance of 60 m. Most wild-rice stands are within 30 m or less of the reference points so locations of stands, combining all possibilities for error, should be within 5 m or less. However from year to year map comparisons, most stands fell within one or two meters from their previous or subsequent years' positions.

All known collections of Texas wild-rice are from the upper San Marcos River, with the first specimen made in 1892. Although ecologically similar conditions occur in the headwaters of the Comal River in New Braunfels, Ferdinand Lindheimer, one of the first extensive plant collectors in Texas and resident of New Braunfels, never collected this species. When the species was first described (Hitchcock 1933), it was noted as being abundant in the San Marcos River, its irrigation canals, and Spring Lake (an impoundment at the river's spring source) (Watkins 1930; Silveus 1933). By 1967 only one plant was located in Spring Lake, none in the uppermost 0.8 km of the river, only scattered stands in the lower 2.4 km, and none below this (Emery 1967). The first quantified measurements of Texas wild-rice were done by Beaty who reported about 240 m^2 (Beaty 1975). It is unfortunate that Beaty did not describe his survey methods or the area that he surveyed as his aerial coverage is substantially different from Emery's 1976 data (Emery 1978). In 1976 Emery produced the first map of the distribution of Texas wild-rice (Emery 1978). Emery also measured the coverage using a floating, one meter square frame, and calculated 1132.5 m^2 (Table 1; Emery 1977). This time he

found no plants in Spring Lake, and scattered plants in the upper and lower segments of the upper two miles of the San Marcos River (Emery 1977; Emery 1978; Vaughan 1986). Although Emery measured coverage of wild-rice in 1978, he did not include the entire population as he had previously (Table 1; Vaughan 1986). Vaughan gathered coverage data using Emery's technique from 1983 to 1986 (Table 1; Vaughan 1986) Although the coverage fluctuated during those years, it was never higher than 541 m², a 50% decrease from Emery's 1976 data (Table 1; Vaughan 1986). On June 14, 1981, San Marcos received 13.98 inches of rain in a 24-hour period, the highest recorded rainfall between 1966 and 1990 (Bomar 1995). Probably this accounts for the dramatically lower aerial coverages between Emery's 1976 and Vaughan's 1983 data. Beginning in 1989 TPW recorded coverages up to triple those of Vaughan's 1986 data, plus coverage in several segments where neither Emery nor Vaughan had recorded wild-rice (see Table 1). Since 1989 coverage has increased with the exceptions of 1993-1994, 1996-1997, and 1998-1999. The reason for the decrease in coverage between 1993 and 1994 is unclear, but the severe drought during the summer and early fall of 1996 contributed to the decrease in coverage in 1997 and the catastrophic October 1998 flood extirpated most of the stands downriver of I-35. Although overall coverage for the entire natural population has increased, it obscures the fluctuations within segments and stands. For example the coverage in Segment B has increased almost 1200% (76.73 m² to 991.22 m²) since 1989 while Segments J and K dropped from highs of 120.46 m² and 234.9 m² to recent lows of 6.7 m² and 2.55 m². Thus it is important to analyze coverage changes by segment and in some cases by stand.

Neither Emery nor Vaughan recognized any Texas wild-rice in Segment A (Emery 1978; Vaughan 1986). Reasons for this are not known, although Southwest Texas State University may have dredged the bottom in this segment as they did immediately below University Drive bridge in Sewell Park. Aerial coverage in this segment increased from 1989 to 1991, but suffered an almost 60% decrease by 1992. One medium-sized stand disappeared, and two of the larger stands dramatically decreased in size (see Appendix 5). The reasons for this disappearance and decrease are not known, but these stands were in some of the swiftest water in the lower part of this segment. Although at a reduced level, coverage stayed fairly constant from 1992 to 1996. Sediment deposition from upstream construction on Sessoms Creek resulted in stand A3, its fragments, and nearby stands being slowly covered with sediment until all stands along the right bank just above University Drive bridge disappeared (see Appendix 5, maps for Segment A1:1989-2001). Since 1996 coverage has continuously increased. This is partially due to approximately 10,000 Texas wild-rice seeds being dispersed from the Spring Lake Dam downstream directly into this segment during the summer drought of 1996 (Kathryn Kennedy, pers. comm. 1998). In spring of 1997 dozens of small plants were noticed below the Spring Dam near the

Clear Lake Apartments (Karim Aziz, pers. comm. 1997). During the 1997 summer monitoring 20 new wild-rice plants were recorded (see Appendix 5, maps A0: 1996 and 1997). Other new plants have appeared in this upstream area since as well as a few downstream. Coverage has continued to increase in this segment despite the catastrophic fall flood of 1998 that had little effect on this segment. Damage to the Spring Lake Dam near Joe's Crabshack caused the entire segment to be fenced from late 1998 or early 1999 until after the summer 2000 monitoring. Thus there was less recreational impact. With the removal of the fence in 2001, no changes were noted from recreational impact, but the area in the lower segment from the middle to the right bank of the river should be carefully monitored for impacts. Segment A has gone from 7th in segment coverage in 1989 to 4th by 2001 (Table 1). There is much suitable habitat in this segment, although there is substantial impact from recreational trampling and sedimentation. In spite of most of the increase in coverage being due to an infusion of seeds that are progeny of plants from the I-35 bridge area, this segment is healthy, increasing, and now very important in the overall survival of wild-rice.

Like Segment A, neither Emery nor Vaughan recognized any Texas wild-rice in Segment B (Emery 1978; Vaughan 1986). Although aerial coverage was only at a moderate level in 1989, it has increased almost 13-fold (76.73 m^2 to 991.22 m^2). Segment B contains more than half of all the Texas wild-rice found in the San Marcos River. It is also the most dynamic segment. Stands seen one month may be gone by the next. Number of stands has risen from a discrete 15 in 1989 to over 100, often difficult to distinguish, stands by 2001. Many of these stands have fragmented and coalesced several times. Coverage has risen more or less steadily from 1989 with a few setbacks: 1991-1992, 1996-1997, and 1998-1999. Between 1991 and 1992, several stands disappeared, and most stands became reduced in size. The reasons for this are not known. The decrease in coverage between 1996 and 1997 is due to the summer and fall drought of 1996 when water levels became too shallow for many stands. The decreased depth was also exacerbated by sediment deposition along the right bank just below the University Drive bridge, coming from upstream construction activities along Sessoms Creek, and by mats of vegetation and trash that cling to any above water vegetation. While the disastrous fall flood of 1998 did cause almost a 14% decrease in coverage, the number of stands actually increased (by 34 stands) with 37 new stands found, 7 relocated, and only 13 lost, in addition to fragmentation and coalescence. In 1989 wild-rice was only found between University Drive bridge and about 20 m above the first foot bridge (Appendix 5, map Segment B1-B15 1989). By 1990 a few plants had popped up in the City Park area (Appendix 5, maps Segment B16 1990 and Segment B17, B18 1990). The proliferation continued in 1991, with several more stands appearing in the City Park area (Appendix 5, map Segment B16.2-B18 1991). In 1992 the first plants below the first footbridge in Sewell Park appeared (Appendix 5, map

Segments B15.2-B15.3 1992). By 1993 there were eight plants between the first and second footbridges in Sewell Park, and more plants appeared in the City Park area (Appendix 5, maps Segment B15.2-B15.10 1993 and Segment B16.3-B16.10 1993). In 1994 most of the new stands appeared in the uppermost part of the segment between University Drive and the first footbridge in Sewell Park (Appendix 5, map Segment B1-B15.13 1994). Additional new stands were found in 1995, but the more significant event was the first significant amount of fragmentation. Six stands produced a total of 20 fragments. This occurred almost exclusively in the upper segment, from mid-channel to left bank just above and below the first set of steps (Appendix 5: map Segment B1a-B15.13 1995). Recreation is high in this area, and may have been the cause. In 1996 the number of new stands (25) was just one more than the number of missing stands. There was also significant coalescence of stands, with 24 independent stands and/or fragments growing together to yield 11 distinct stands. This happened within the area of Sewell Park (Appendix 5: maps Segment B1a-B11.28 1996 and Segment B15.7-B15.34 1996). Also in 1996 stands were found for the first time below the Lions Club tube rental in City Park (Appendix 5: map Segment B20, B21 1996). 1997 was the first year for stand loss to exceed new stands found (20 vs. 17). However seven stands reappeared so stand gain still exceeded stand loss. The first mega-stand (called B10) developed this year, measuring 26.2 m X 9.4 m, and spanning the distances between the second and third right bank steps (Appendix 5: map Segment B1a-B14 1997). In general individual stand coverage was down in the upper segment between University Drive bridge and the first foot bridge due to the low flows caused by the 1996 drought. However several more stands were found in the City Park area below the Lions Club tube rental (Appendix 5: map Segment B22-27 1997) and the first stand appeared at the extreme end of Segment B, between Hopkins Street and the railroad bridge (Appendix 5: map Segment B28 1997). In 1998 the largest recorded stand (called B2) formed. It was almost 60 m long X 13.6 m wide, and stretched from University Drive bridge to midway between the second and third right bank steps in Sewell Park (Appendix 5: map Segment B1-B7e, B113-B11i 1998). More stands had appeared in Sewell Park between the first and second footbridges as well as in upper part of the City Park (Appendix 5: maps Segment 1998). Probably due to the catastrophic fall 1998 flood, in 1999 the super mega-stand fragmented although one mega-stand (B7) and several other large stands remained (Appendix 5: map Segment B1-B11.8 1999). In spite or perhaps because of the 1998 flood, stands continued to spring up; particularly in Sewell Park between the first and second footbridges (Appendix 5: map Segment B15.20-B15.10a 1999) and throughout City Park (Appendix 5: maps Segment B15.64-B16.26 1999, Segment B16.18-B16.23 1999, Segment B16.8-B17.9 1999, Segment B 17.4-B19 1999, Segment B21.1-27.1 1999, Segment B28, B29 1999, and Segment B30 1999). Although many stands were discovered or relocated, lost, fragmented, or coalesced in 2000, there were no significant changes, and coverage increased. Number of

stands decreased in 2001 due to the coalescence of many stands into mega-stands B6 and B15.1 (see Appendix 5, maps Segment B1a-B11.29 2001 and Segment B15.1-B15.53 2001). Segment B went from 6th in segment coverage in 1989 to 1st by 1996, and by 2001 accounted for more than half of the wild-rice in the river (Table 1). Much suitable habitat exists in this segment, and the exponential growth of wild-rice here reinforces the quality of the habitat. However this segment of the river also has the highest amount recreational impact. Situated in Southwest Texas State University's Sewell Park and the city park of San Marcos, numerous recreationists including tubers, swimmers, canoeists, kayakers, scuba divers, snorklers, and others float, swim, paddle, walk, and handle wild-rice during the course of their activities. It is remarkable that wild-rice has withstood this pressure as well as it has. Also there are many floating vegetation/trash mats in this segment. The mats block light to wild-rice, eventually causing it to weaken and either die or become uprooted. Because this segment is now so important to the survival of the species, it is crucial that threats such as recreational impacts, sedimentation, and vegetation/trash mats be addressed.

Aerial coverage in Segment C declined dramatically from 1976 to 1986 (Vaughan 1986), but an overall increase in coverage began in 1989 (Table 1). However the coverage has fluctuated through the years. Coverage declined between 1990 and 1991 due to the thinning (as shown by reduced percent cover) of the large stands C5 and C6 (Appendix 4). The reasons for this are unknown, although sediment deposition began to cover the stand C6 area beginning in 1990. The coverage decline between 1993 and 1994 was due to a size decrease in the mega-stand C5. Reasons for this are not known (Appendices 4 and 6). The sediment is probably coming from Purgatory Creek. A downward trend between 1995 and 1997 was due to the thinning and fragmentation of formerly large stands C6 and C9 (Appendices 4 and 6; Appendix 5: maps Segment C9 1996 and Segment C9-C9d 1997). The drought of 1996 may have had a deleterious effect on these stands. Also stand C6 is in shallow water, allowing recreational access from the adjacent private property. This may have had a detrimental effect on this stand. The fall flood of 1998 had little effect on coverage or stands in this segment. The decrease in coverage between 2000 and 2001 is due to the thinning of stands C2 and C5. Segment C contains one of the largest stands in the river. It also has good habitat for wild-rice, and has the second-highest segment coverage. However sedimentation, recreation (to a small extent), and at present a fallen tree (blocking light and presenting the possibility of uprooting wild-rice during flood events) threaten the continued growth and health of the plants in this segment.

Texas wild-rice has never been observed in Segment D (Emery 1978; Vaughan 1986). This segment is totally influenced by Rio Vista Dam which

creates a deep pool and traps fine sediments (both conditions not conducive to healthy wild-rice growth).

Aerial coverage in Segment E dropped dramatically between 1976 and 1978, and remained low throughout Vaughan's study period (Emery 1978; Vaughan 1986). However when TPW began monitoring in 1989, coverage was up over 400%. Perhaps this was due to the change in methodology, but the segment's coverage did not increase comparatively across the board. This may represent a normal increase in cover over a period without floods, droughts, trampling, and other threats. Coverage in this segment was up and down between 1989 and 1998 (Table 1) due to the loss and gain of plants, as well as continual increases and decreases in coverage of individual stands. Coverage began a steady downward trend in 1999 after the drastic fall flood of 1998. The effect of the Capes Dam failure (early January 2000) resulted in a decrease in coverage, but the fall flood of 1998 was more drastic. Although plants were stressed along the shallow right bank in the middle of the segment below the Cheatham Street bridge, few plants disappeared. However several were reduced in coverage and undoubtedly stressed by the event. At present a large fallen tree is blocking light to several plants above the Cheatham Street bridge. Fortunately the tree is too large to get past the bridge during flood events, but the tree will trap additional debris, blocking more light. Recreational trampling has also been a problem in this segment. Many of the E6 cohort were in very shallow water easily accessible to humans and their pets. On several visits to this area, people and their dogs were observed playing in the wild-rice area. By 2001 all of the E6 group except for those in deeper water had disappeared (Appendix 5: maps Segment E6-E9.1 1999, Segment E6-E9.1 2000, and Segment E6-E9.1 2001). Although coverage has never been extremely high in this segment and has been somewhat variable through the years, the fall flood of 1998 and the breach of Cape's Dam in 2000 caused a downward spiral in coverage from which the segment has yet to recover. However much of the segment is extremely good habitat, and has high potential for recovery if threats such as recreation, erratic water levels, and tree falls are dealt with.

Aerial coverage in Segment F dropped by over 25 % between 1976 and 1984, and then was variable during the mid-1980s (Emery 1978; Vaughan 1986). The dramatic increase (almost 200%) in 1989 may have been due to differences in methodologies in estimating aerial coverage although these discrepancies are not consistent throughout. Also Emery (1978) reported clones only at the upper and lower end of the segment, whereas TPW found stands more or less throughout the segment. Coverage continued to increase to an all-time high of 429.44 m² in 1993, only to drop by almost half in 1994 due to a similar decline in the three of the four largest stands (F6, F8, and F12) in this segment. Reasons for this decline are not known. Recreational impact in this segment is confined to two specific points. The one most

impacted is at the I-35 bridge. Here an area of bare gravel exists where waders, swimmers, canoeists, anglers, and other recreationists have an easy, shallow water access to the river. Although no wild-rice has been seen in this area, it would provide suitable habitat. Although the 1998 fall flood had no discernible effect on the segment coverage, several plants (F3, F4, F4.4, and F5.1) were lost in the upper part of F segment (Appendix 5: maps Segment F3-F7 1998 and Segment F5-F7 1999) probably due to the raking of the bottom by a downed tree that moved downriver during the flood. During the breach of Cape's Dam in January 2000, stands F6 and F12 suffered major damage. Both stands came out of the water, particularly F12. A massive effort by USFWS and TPW removed many of the plants from primarily the F12 stand, and transferred them to the refuge at the National Fish Hatchery and Technology Center. When no room was left at the refuge, plants were planted in what appeared to be suitable habitat at the time. Although few plants survived the transplant in the river (these plants were the most stressed as they had been out of the water the longest), their contribution to 2000 annual coverage as well as the amazing recovery ability of wild-rice led to the small increase in segment coverage. Despite the 1998 fall flood and the breach in Capes Dam, this segment has increased in coverage and is at present holding steady. This segment had the 2nd highest segment coverage in 1989, but was out competed Segments A and C by 2001. However this segment is still extremely important to the continued survival of Texas wild-rice.

Compared to other segments, Segment G suffers from little impact due to recreation because of two factors: depth and private land ownership along most of the bank. The impact of I-35 is unknown, as the bridges have been there before Emery began his studies. The widening of the main lanes is considered to not have an impact, and several runoff and erosional concerns will be addressed by TxDOT during construction. Also USFWS has requested TxDOT to keep the area closed to vehicular traffic. This will lessen impact from recreation. Although Emery's all-time high coverage of 68 m² (Emery 1978; Vaughan 1986; Table 1) has never again been approached, coverage did recover from the lows of the Vaughan years (Vaughan 1986; Table 1). From 1989 to 2000, coverage more or less varied between 10 and 20 m² (Table 1). This segment is deep enough for plants not to have been affected by the breach in Cape's Dam, nor were they affected by the 1998 fall flood. However between 2000 and 2001 a fallen tree blocked sunlight to two stands, resulting in a drastic coverage loss when the tree was removed. Overall this segment is not a good segment for wild-rice. Cape's Dam backs up water to the I-35 bridge, providing little habitat for wild-rice.

Although Emery and Vaughan (Emery 1978; Vaughan 1986) found little if any wild-rice coverage in Segment H, TPW found a small amount. Coverage has been on a general decline in this segment since 1990 (Table 1). By 2001

only one plant remained, and aerial cover was less than one square meter. Neither drought nor the 1998 flood has had any visible effect on this segment. Reasons for its decline are unknown, although water clarity has decreased in all segments of the river below I-35. Segment H is not a premium habitat for wild-rice. Much of this segment is too deep, sluggish, and shaded for wild-rice.

Neither Emery nor Vaughan found more than 10 square meters of wild-rice in Segment I (Emery 1978; Vaughan 1986; Table 1). Aside from the all-time high coverage of 12.86 m² in 1989, coverage continuously dropped until wild-rice disappeared from this segment in 1997. As there is no aquatic vegetation in the lower portion of this segment (the area where the wild-rice occurred) and the area has high recreational traffic, it is highly likely that the recreational impact extirpated wild-rice in this segment. However there is some potentially suitable restorable habitat if recreation pressure can be alleviated in this segment.

Neither Emery nor Vaughan ever found any wild-rice in the irrigation channel between the county road bridge and the mill-race dam (Emery 1978; Vaughan 1986). In fact Emery never even gave this area a segment designation. Upon finding one stand in 1989, TPW designated this segment as X. However by the next monitoring session in 1990, the stand had disappeared for unknown reasons. No stands have since been seen in this segment, nor does it have suitable habitat for wild-rice.

Coverage in Segment J fluctuated during the Emery and Vaughan years (Emery 1978; Vaughan 1986), and increased the first two years of TPW's monitoring (Table 1). After 1990 coverage dropped almost continuously as stands thinned and fragmented. During 1998 fall flood 12 stands were lost (although one has reappeared), and segment cover was drastically reduced, reaching an all-time low of 6.22 m² in 2000. Although this segment shows no signs of recovery yet, Segment K, a segment similar in many ways to Segment J, made an impressive rebound between 1984 and 1990 (Table 1). Also the habitat remains quite suitable so restoration should be recommended for this segment.

From all-time highs of 233.5 m² in 1976 and 234.9 m² in 1998 to the all-time lows of 15 m² in 1984 and less than 10 m² in 1999-2001, coverage in Segment K has fluctuated violently over the last 25 years (Emery 1978; Vaughan 1986; Table 1). Emery located 62 clones in K segment in 1976 (Emery 1978) as compared to the 45 stands found in 1989, and the 13 stands left in 2001. The distribution of stands in K segment has also changed dramatically through time. Several stands in the middle of K segment (K21, K21.1, K22, K23, K24, K25, K26, K26.1, K27, K28, and K28.1) were ripped away by fallen trees as they moved downstream during various floods (Appendix 5: maps Segment

K11-K21.1 1990, Segment K23 1990, Segment K25-K28.1 1990, Segment K11-K20 1991, Segment K26 1991, and Segments K23-K26.1 1992). The disappearance of several of these stands accounted for the lowered segment coverage in 1992. Likewise the loss of 16 stands between 1996 and 1997 caused a significant drop in coverage (Table 1). In the upper part of the segment, the left bank was stabilized with riprap sometime between the 1996 and 1997 monitoring sessions. Although the landowner and construction crew stayed away from the wild-rice, it is possible that sediment from the bank stabilization activities somehow disturbed the wild-rice. However stands were lost in the lower part of the segment as well which indicates that the bank stabilization may not have been at fault. Loss of the lower segment stands could not be tied to any specific cause. The 1998 fall flood did have a devastating effect on this segment. Coverage dropped from the all-time high of 234.94 m² to the all-time low of 2.55 m² (Table 1). Total number of stands went from 47 to 9 as 41 stands were lost (Appendix 4). Only one stand has reappeared in the ensuing two years, and no signs of recovery have been noted. However once before coverage in Segment K dropped a phenomenal amount. Between Emery's 1976 data and Vaughan's 1983 and 1984 data, coverage dropped from 233.5 m² to 15 m² (Table 1; Emery 1978; Vaughan 1986). Wild-rice recovered from that, and may yet again. There is much still suitable habitat within this segment, and it should be a high priority for reintroduction.

Neither Emery nor Vaughan reported any Texas wild-rice in Segment L, the area between the power lines and the sewage treatment plant (Emery 1978; Vaughan 1986; Table 1). Up to three plants were observed in this area by TPW between 1989 and 1997. However by 1998 all wild-rice has disappeared from this segment. As the plants were never very large (never more than 3 m²), they probably did not have the critical mass to maintain themselves. This segment does not have much habitat, as it is deep, murky, and shaded throughout much of the stretch.

Although Emery reported one plant below the sewage treatment outfall (Emery 1978), he did not give this segment an official designation or report any coverage for this plant. TPW called this Segment M, and found one plant in 1989 (although probably a different one from Emery's). The stand disappeared by 1990. Despite repeated trips through this segment as well as below the confluence with the Blanco River and on to Staples, no wild-rice has been observed by TPW. Most of the habitat above Cummings Dam (not far below the confluence with the Blanco River) is unsuitable for wild-rice as it is deep (over 2 m) and murky. Below Cummings Dam there appears to be suitable habitat (clear, fast flowing water no deeper than 2 m) but the river probably lacks the thermal constancy of the upper stretch.

Although overall coverage has increased since the Emery's 1976 data, the distribution of wild-rice has changed dramatically. Whereas wild-rice was scattered throughout the river, it is now almost exclusively limited to the section above the I-35 bridge. There is more impact in this area of the river from recreation, sedimentation, and pollution. Thus it is not a good scenario to depend on this upper reach for the continued existence of wild-rice. Healthy stands are needed in as much available suitable habitat in the upper San Marcos River (i.e., above the confluence with the Blanco River) as possible in order for this species to recover, if not survive.

CONCLUSIONS: The coverage and extent of Texas wild-rice has changed remarkably since the first reports in the 1930s of its abundance in the San Marcos River, associated irrigation canals, and Spring Lake. The differences between Vaughan's and Emery's data as well as the differences between their data and that collected by TPW for the last 13 years, highlights the fact that Texas wild-rice is capable of dramatic growth and recovery. However the same data show that the system is quite dynamic and able to cause overnight changes in the number of stands and coverage. As human mitigated threats such as flow diminution, recreation, introduction of non-native species, sedimentation, and pollution increase, wild-rice may be stretched beyond its limits of elasticity. There may simply come a point where there is not enough plant material left to recolonize areas of the river where wild-rice has been extirpated. Without the continued efforts of dedicated agency personnel and volunteers to maintain the quality and quantity of the San Marcos River as well as its constituent species such as Texas wild-rice, wild-rice may eventually reach the threshold from which there is no return, and wink out as many individual stands have already done.

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associated files, would not exist. Thanks especially to Sandy for entering the data for the last few years as well as using Valerie's program to develop the numerous maps for this report.

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HISTORICAL DISTRIBUTION
OF THE COTTON-TAIL RABBIT

San Marcos River
Streams
Structures
River

18 March 2002

Projection: UTM, NAD83, meters, Zone 14
Imagery: USGS, DCCD 28 January 1998



Map compiled by the Texas Parks and Wildlife Department, State
Whitetail Diversity Program. No claims are made to the
accuracy of the data or suitability of the data for a particular use.

Table 1.
Texas Wild-rice
Segment Coverage (m²)

Seg	Year	1976-1999																	
		1976**	1978**	1983**	1984**	1985**	1986**	1989***	1990***	1991***	1992***	1993	1994	1995	1996	1997	1998	1999	
A	0.00	0.00	0.00	0.00	0.00	0.00	23.10	77.63	83.39	34.23	38.66	34.43	35.93	31.70	48.99	57.43	75.77	77.58	104.41
B	0.00	0.00	0.00	0.00	0.00	0.00	76.73	162.44	237.80	207.72	267.35	417.17	513.07	555.06	519.68	766.48	661.81	745.09	991.22
C	554.00	463.50	251.00	228.00	217.00	209.00	326.83	477.94	392.02	449.23	540.70	442.62	514.34	459.95	416.09	422.61	493.08	553.34	399.16
D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E	55.00	26.00	29.00	27.00	19.00	19.00	81.33	72.40	109.81	71.86	77.05	62.85	81.16	72.83	76.34	67.75	38.67	24.25	19.98
F	164.00	no data	119.00	83.00	103.00	92.50	276.57	241.90	271.42	380.08	429.44	270.49	276.28	275.97	335.40	327.62	339.49	350.52	359.42
G	68.00	33.00	37.00	8.00	8.00	7.50	18.58	18.83	12.88	12.65	20.25	17.64	14.74	10.64	11.98	20.80	23.26	20.85	4.78
H	0.50	0.00	0.00	0.00	0.00	0.00	11.40	11.82	8.66	9.74	1.32	3.73	5.03	4.35	2.43	2.84	2.92	3.67	0.98
I	9.00	no data	4.00	3.00	4.50	4.00	12.86	5.55	1.40	0.21	0.32	0.17	0.11	0.064	0.00	0.00	0.00	0.00	0.00
X	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
J	49.00	no data	46.00	28.00	68.00	55.00	95.03	120.46	117.01	117.39	96.57	76.22	46.58	36.96	36.99	48.82	7.33	6.22	6.70
K	233.50	no data	55.00	15.00	69.50	67.00	77.14	191.02	171.52	122.56	136.21	129.50	136.24	202.60	134.39	234.94	2.55	9.56	8.97
L	0.00	0.00	0.00	0.00	0.00	0.00	2.84	0.43	0.29	0.33	0.52	1.52	0.52	1.95	1.87	0.00	0.00	0.00	0.00
M	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1132.50*	522.50*	541.00*	412.00*	489.00*	454.00*	1003.97	1380.42	1406.20	1406.00	1608.39	1456.34	1624.00	1652.07	1584.16	1919.29	1644.88	1791.08	1895.62

* Data from 1976-1986 was collected using a slightly different methodology. Also the researchers did not find or record Texas wild-rice in segments A, B, L, and M. Thus comparisons with these years should be made on a segment-by-segment basis.

Segments refer to particular sections of the San Marcos River. Texas Parks and Wildlife Department (1989) used letters to identify these segments while Vaughan (1986) used numbers. The following are descriptions of the segments.

A = Spring Lake Dam to University Drive bridge

B = University Drive bridge to Hopkins Road railroad bridge

C = Hopkins Road railroad bridge to Rio Vista railroad bridge

D = Rio Vista railroad bridge to Rio Vista Dam

E = Rio Vista Dam above Cheatum Street to low point on south side of Glover's Island

F = Low point on south side of Glover's Island to just above South I-35 access road

G = Just above the southbound access road of I-35 to Capes' Dam

H = Capes' Dam to east-west channel through Thompson's Island

I = East-west channel through Thompson's Island to Hays County Road

X = Hays County Road to mill dam, irrigation canal

J = Hays County Road to just below confluence of natural and irrigation channels

K = Just below confluence of natural and irrigation channels to just below transmission wire

L = Just below transmission lines to sewage treatment plant outfall

M = Sewage treatment plant outfall to Blanco River confluence

***Texas Parks and Wildlife Department. 1989. Interim report on conservation of the upper San Marcos ecosystem: Texas wild-rice (*Zizania texana*). Submitted to U.S. Fish and Wildlife Service, Region 2.

****Texas Parks and Wildlife Department. 1990. Interim report on conservation of the upper San Marcos ecosystem: Texas wild-rice (*Zizania texana*). Submitted to U.S. Fish and Wildlife Service, Region 2.

Table 1.
Texas Wild-rice
Segment Coverage (m²)
1976-1999

Segment	1976-1978	1979-1981	1982-1984	1985-1987	1988-1990	1991-1993	1994-1996	1997-1999
**Texas Parks and Wildlife Department. 1992. Interim report on conservation of the upper San Marcos ecosystem: Texas wild-rice (<i>Zizania texana</i>). Submitted to U.S. Fish and Wildlife Service, Region 2.								
**Vaughn, Jr., J. E. 1986. Population and autoecological assessment of <i>Zizania texana</i> Hitchc. (Poaceae) in the San Marcos River. Unpublished thesis, Southwest Texas State University, San Marcos. 51 pp.								

APPENDIX 1

Texas wild-rice
Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
A0	A0	A0	A0	A0	A0	A0	A0	A0	A0				
A0a				A0.1	A0.1	A0.1							
A0b		A0.3	A0.3	A0.2	A0.2								
A0c				A0.3	A0.3								
A0d					A0.4								
A0e						A0.5							
A0f					A0.6	A0.6							
A0g						A0.7							
A0h					A0.8	A0.8							
A0i					A0.9	A0.9							
A0i1					A0.22								
A0j					A0.10	A0.10							
A0k						A0.11							
A0l						A0.12	A0.12						
A0m						A0.13	A0.13						
A0n						A0.14	A0.14						
A0o						A0.15	A0.15						
A0p						A0.16	A0.16						
A0q							A0.17						
A0r							A0.18						
A0s							A0.19						
A0t						A0.20	A0.20						
A0u						A0.21	A0.21						
A0v	A5.1	A5.1	A5.1	A5.1	A5.1								
A0w						A0.25							
A0x						A0.29							
A0y						A0.24							
A1	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1
A1a	A1a						A2a						
A2	A2	A2	A2	A2	A2	A2	A2	A2	A2	A2	A2	A2	A2
A2b	A2b												
A3				A3	A3	A3	A3	A3	A3	A3	A3	A3	A3
A3a				A3a	A3a	A3a	A3a	A3a	A3a	A3a	A3a	A3a	A3a
A3b						A3b	A3b						
A3c						A3.2	A3.1						
A4								A4		A4	A4	A4	A4

Texas wild-rice
Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
A5									A5	A5			
A6	A5.2	A5.2	A5.2	A7	A7	A7	A6						
A301	A0.3	A0.5	A0.5										
A302	A0.6	A0.6	A0.6										
A303			A0.16										
A304	A0.9	A0.9	A0.9										
A305			A0.26										
A306	A0.22	A0.22	A0.22										
A307	A0.3a	A0.3a	A0.3a										
A308	A0.2	A0.2	A0.24										
A309	A0.28	A0.28	A0.28										
A310	A0.27	A0.27	A0.27										
A311			A0.20										
A312		A0.20	A0.25										
A313	A0.13	A0.13	A0.13										
A314		A0.15	A0.15										
A315	A0.35	A0.14	A0.14										
A315a	A0.14												
A316	A0.29	A0.29	A0.29										
A317	A0.30	A0.30	A0.30										
A318	A0.31	A0.31	A0.31										
A319	A0.32	A0.32	A0.32										
A319a		A0.3b											
A319b	A0.33	A0.33											
A319c	A0.25	A0.25											
A319d	A0.24	A0.24											
A319e	A0.34	A0.34											
A320	A0.20												
A321	A5.3	A5.3	A5.3										
A322	A7	A7	A7										
A323	A7.1	A7.1	A7.1										
A324		A3	A3										
B1	B1a	B1a	B1a	B1a	B1a	B1a	B1a	B1a	B1a	B1	B1	B1	B1
B1a		B1h	B1c	B1h	B1c	B1c			B1				
B1b			B1h	B1c	B1h	B1h	B1h						
B1c	B1.1	B1.1	B1.1	B1.1	B1.1								
B1fb	B1fb												

Texas wild-rice
Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
B1lc	B1lc												
B2	B2	B2	B2	B2	B2	B2	B2	B2	B2	B2	B2.1	B2	B2
B2a							B5	B5			B2.1a	B2a	
B2b						B2b	B2b						
B2c		B5	B2a		B2a	B2a	B2a						
B2d			B2.2										
B2e	B6	B6	B5a										
B2f	B2h	B2h											
B2i1		B2i											
B2i2		B2j											
B2i3		B2b											
B2g	B4	B4											
B2k	B2k												
B3					B1d	B2.3	B1b	B3	B3	B3	B3	B3	
B3a						B1c	B1c	B3.1	B3.1	B3.1	B3.1	B3.1	
B3b						B1d	B1d						
B3c							B1j						
B3d							B1i						
B4						B1g	B1	B2	B2	B2	B2.1	B4	
B4i	B4i												
B5		B2c		B5	B5			B5	B4	B5	B5	B5	
B5a		B6a	B2d					B2.2	B2.2	B2.2	B2.2	B2.2	
B5a1		B2e											
B5b		B2f				B4	B4	B4	B5	B4			
B5b1		B2g											
B5b2		B5											
B5c						B3f	B3						
B5c1							B3c						
B5c2							B3						
B5c3		B4d	B4d		B3		B3h						
B5c4							B3d						
B5c5							B3e						
B5c6							B3g						
B5d							B3i	B3a					
B5e							B3.1	B3.1	B3.2				
B5f								B3.1a	B3.1				
B5g								B3b	B3b				

Texas wild-rice
Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
B5g1					B3b	B3b	B3.1c						
B5g2					B3b	B4c			B3j				
B5g3					B3ba	B3ba			B3.1d				
B5g4					83.4	B3.1d	B3.1d						
B5g5		B7	B7	B7.1									
B5h					B1fa	B3.1b	B3.1b	B1e					
B5i	B1f	B1f	B1f	B1f	B1f	B1f	B1f	B1f					
B5i1					B1fb	B1fa							
B6			B6		B7	B7	B7	B7	B7a	B7	B7	B7	B6
B6a		B4b	B4b	B4b	B4b	B4	B4a	B6a	B7				
B6a1		B4e	B4e	B4	B4								
B6b			B7a		B7a	B7a	B7a						
B7						B8a	B8a	B8a	B8a	B8	B8	B8	B7
B7a						B10.2	B10.2	B10.2					
B7b					B3.4	B3.4	B3.4	B3.4					
B7c					B7.1	B7.1	B7.1	B7.1					
B7c1					B7.1a	B10.3	B10.3	B10.3					
B7c2					B10.8	B10.8	B10.8						
B7c3					B10.6	B10.9	B10.9						
B7c4						B10.6							
B7d						B3.4a	B3.3	B3.3					
B7e	B3.5	B3.5	B3.5	B3.5	B3.5	B3.5	B3.5	B3.5					
B7f					B3.6		B3.6						
B7g		B10.11											
B7h		B10.8											
B7i		B10.9											
B8						B10	B10	B10	B10	B10	B10	B10	B8
B8a						B10	B10.4	B10.1	B10.3	B10.1			
B8b							B10.4	B10.4	B10.4				
B8c									B10.2				
B8d									B10.5				
B8e							B10.6	B10.1	B10.1				
B8f							B10.7	B10.6	B10.6				
B9											B9		
B10						B10d		B11	B11	B11	B11	B11	B10
B10a									B13	B13			
B10b									B10b				

Texas wild-rice
Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
B10c				B10c	B10c	B10c	B10c	B10c	B10c				
B10d					B15	B15	B15	B15	B15				
B10e							B10e						
B11					B11	B11	B11	B11	B11.1	B11.1	B11.1	B11.1	B11
B11a						B11.15	B11.15	B11.15	B11.3	B11.4	B11.4	B11.2	
B11b							B11.9	B11.10	B11.3				
B11c						B11.6	B11.6	B11.6	B11.6				
B11c1						B11.1							
B11d							B11.5	B11.5	B11.5				
B11e	B11.5	B11.5	B11.5	B11.5	B11.5	B11.7	B11.7	B11.7	B11.7				
B11e1						B11.7	B11.8						
B11e2						B11.6							
B11e3						B11.1							
B11e4		B10.10											
B11e5		B3.7											
B11f	B11.8	B11.8	B11.8	B11.8	B11.9	B11.9	B11.9	B11.8	B11.8				
B11g		B11.29	B14.1			B11.24	B11.24	B11.16	B11.11				
B11g1		B11.24											
B11h								B11.8a	B11.9				
B11i				B11.9	B11.3	B11.28	B11.2	B11.2					
B11j							B11.12	B11.12					
B11j1							B11.18						
B11j2		B11.26a	B11.28	B11.28	B11.17	B11.17	B11.17						
B11k						B11.23	B11.19	B11.13					
B11l						B11.25	B11.14	B11.14					
B11m					B11.28	B11.19	B15.11	B15.11					
B11m1							B11.20						
B11n					B11.15	B11.26	B15.13	B15.12					
B11o		B11.26	B11.26	B11.26	B11.26	B11.27	B15.12	B15.13					
B11o1				B11.19									
B11o2		B11.17	B11.29	B11.29			B11.21						
B11p						B11.22							
B11q													
B11r					B11.29								
B11s		B11.19ab	B11.19ab										
B11t		B15.35b	B11.19aa										
B11u	B11.9	B11.9											

Texas wild-rice
Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
B11v				B11.19ac									
B11w					B11.19ad								
B11.5	B11.5												
B11.10	B11.10												
B11.18	B11.18												
B11.29	B11.29												
B12		B14	B14	B14	B14	B14	B14	B14	B15	B15	B15	B14	B12
B12a									B10a				
B12b			B15										
B12c				B15a									
B12d				B15b									
B12e		B15.47	B15.47										
B12f		B15.48	B15.48										
B13		B15.1	B15.1	B15.1	B15.1	B15.1	B15.1	B15.1	B15.1	B15.1	B15.1	B15	B13
B13a		B15.4	B15.4	B15.4	B15.4	B15.4	B15.4	B15.4	B15.4	B15.4	B15.4		
B13a1				B15.35	B15.35								
B13a2		B15.35	B15.35			B15.36							
B13a3				B15.50									
B13a4		B15.35a											
B13b			B15.4a	B15.4a	B15.4a	B15.4a							
B13b1	B15.38	B15.38	B15.38	B15.38	B15.38	B15.38							
B13b2			B15.4b										
B13b3	B15.49	B15.49	B15.49										
B13b4		B15.4aa	B15.4aa										
B13b5			B15.56										
B13b6				B15.56									
B13b7				B15.57									
B13b8	B15.58	B15.58	B15.58										
B13c		B11.26b	B11.19d	B11.19d	B15.11	B15.12							
B13c1				B15.11	B15.11	B11.19							
B13d		B15.11	B19a	B11.19a	B11.19c	B15.28							
B13d1					B11.19b								
B13e		B15.67											
B13f		B11.19a											
B14		B15.2	B15.2	B15.2	B15.2	B15.2	B15.2	B15.2	B15.2	B15.2	B15.2		
B14a		B15.15	B15.15	B15.15	B15.15	B15.15	B15.15	B15.15	B15.15	B15.15	B15.15		
B14a1		B11.19aa										B14	

Texas wild-rice
Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
B14b		B15.30a	B15.30	B15.16	B15.16	B15.16	B15.16	B15.16	B14b				
B14b1				B15.30	B15.30	B15.30	B15.30						
B14b2			B15.16	B15.16									
B14b3	B15.51	B15.51	B15.51										
B14b4	B15.4	B15.4c											
B14c				B15.14	B15.14	B15.14	B15.14	B15.14	B15.14				
B14c1		B15.29	B15.29	B15.29	B15.29	B15.29	B15.29						
B14c2						B15.37							
B14c3							B11.19a						
B14c4				B15.12									
B14c5					B15.40								
B14c6			B11.19ac										
B14c7		B15.30											
B14d	B15.18	B15.18	B15.18	B15.18	B14d	B15.18	B15.24	B15.17					
B14d1		B15.18a	B15.18a	B15.18a									
B14d2			B11.10										
B14d3			B15.18aa										
B14d4			B15.31										
B14e							B15.18	B15.18					
B14f									B15.19				
B14g			B15.20	B15.20	B15.20	B15.20	B15.20	B15.20	B15.20				
B14h	B15.21	B15.21	B15.21	B15.21	B15.21	B15.21	B15.21	B15.21	B15.21				
B14i	B15.41	B15.41	B15.41	B15.41	B15.31	B15.31							
B14i1				B15.42									
B14i2	B15.52	B15.52	B15.52										
B14i3	B15.53	B15.53	B15.53										
B14j	B15.54	B15.54	B15.54										
B15	B15.8	B15.3	B15.3	B15.3	B15.3	B15.3	B15.3	B15.3	B15.3	B15.3			B15
B15a											B15.5		
B15a1					B15.44								
B15a2						B15.6							
B15a3						B15.45							
B15a4	B15.46	B15.46	B15.46	B15.46									
B15a5	B15.78	B15.61	B15.61										
B15b									B15.8				
B15c	B15.33	B15.33	B15.33	B15.33	B15.33	B15.33	B15.26	B15.9	B15.9				
B15c1	B15.59	B15.59	B15.59										

Texas wild-rice
Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
B15d	B15.7b	B15.7	B15.7	B15.7	B15.7	B15.7	B15.7	B15.7	B15.7	B15.7			
B15d1													
B15d2	B15.60	B15.60	B15.60										
B15d3	B15.7a	B15.7a											
B15e											B15.6		
B15f	B15.10c	B15.23	B15.23	B15.23	B15.23	B15.23	B15.23	B15.23	B15.23	B15.10			
B15g									B15.22	B15.22			
B15g5			B15.61										
B15h							B15.8	B15.8	B15.10				
B15i	B15.25	B15.25	B15.25	B15.25	B15.25	B15.25	B15.25	B15.25					
B15i1	B15.43	B15.43	B15.43	B15.43									
B15i2	B15.39	B15.39	B15.39										
B15j		B15.10	B15.10	B15.10	B15.10	B15.10	B15.10	B15.10					
B15j1			B15.10a										
B15j2	B15.73	B15.62	B15.62										
B15j3	B15.63	B15.63	B15.63										
B15j4	B15.71	B15.71											
B15j5	B15.72	B15.72											
B15j6	B15.80	B15.74											
B15j7	B15.81	B15.73											
B15j8		B15.75											
B15k	B15.32	B15.32	B15.32	B15.32	B15.32	B15.32							
B15l	B15.10b	B15.10b											
B15.1	B15.1												
B15.3	B15.3												
B15.7	B15.7												
B15.8a	B15.8a												
B15.10	B15.10												
B15.16	B15.16												
B15.20	B15.20												
B15.23	B15.23												
B15.30	B15.30												
B15.76	B15.76												
B15.77	B15.77												
B15.79	B15.79												
B15.82	B15.82												
B15.83	B15.83												

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Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
B15.84	B15.84												
B15.85	B15.85												
B15.86	B15.86												
B15.87	B15.87												
B16	B16.7	B16.7	B16.7	B16.7	B16.7	B16.7	B16.7	B16.7	B16.7	B16.7			
B16a							815.27	B15.27					
B16b	B16.15	B16.15	B16.15	B16.15	B16.15	B16.15	B16.15	B16.15	B16.15	B16.15			
B16c	B15.34	B15.34	B15.34	B15.34	B15.34	B15.34	B15.34	B15.34	B15.34	B15.34			
B16d	B16.17a	B16.17a	B16.17	B16.17	B16.17	B16.17	B16.17	B16.17	B16.17	B16.17			
B16d1			B16.17a	B16.17a									
B16e			B16.16	B16.16	B16.16	B16.16	B16.16	B16.16	B16.16	B16.16			
B16e1		B16.17b	B16.17b										
B16e2			B16.25										
B16e3			B16.26										
B16e4		B16.17c											
B16f	B16.19	B16.19	B16.19	B16.19	B16.19	B16.19	B16.19	B16.19	B16.19	B16.19			
B16g	B15.64	B15.64	B15.64										
B16g1	B15.68	B15.68											
B16h			B15.65										
B16i			B15.66										
B16j			B16.24										
B16k	B15.88	B15.69											
B16l	B15.70	B15.70											
B16.8	B16.8												
B16.17	B16.17												
B16.30	B16.30												
B17											B16	B16	B16
B17.9	B17.9												
B17.15	B17.15												
B17.18	B17.18												
B17.23	B17.23												
B17.24	B17.24												
B18	B18										B18	B18	
B18.5	B18.5												
B18.6	B18.6												
B19											B17	B17	
B19a												B17.1	

Texas wild-rice
Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
B19b										B16.2	B16.2		
B20											B16.1		
B20a					B16.12	B16.12	B16.12	B16.11					
B20a1						B16.18							
B20b		B16.18	B16.13	B16.13	B16.13			B16.13					
B20c	B16.12	B16.12	B16.12	B16.12									
B20d	B16.28	B16.28	B16.18	B16.18									
B20e	B16.23	B16.23	B16.23										
B20f		B16.29											
B21											B17.2		
B22											B17.3		
B23											B17.4		
B23.1	B23.1												
B24						B17.12							
B25	B25	B16.8	B16.8	B16.8	B16.8	B16.8	B16.8	B16.8	B16.8				
B25a						B17.11	B17.11						
B25b			B16.23										
B25c			B16.22										
B25.1	B25.1												
B25.3	B25.3												
B26				B16.20	B16.9	B16.9	B16.9	B16.9	B16.9				
B26a		B16.21	B16.21	B16.21		B16.14							
B26b		B16.27											
B27		B16.10	B16.10	B16.10		B16.10	B16.10	B16.10	B16.10				
B27a			B16.10a										
B27b			B17.15										
B27c			B17.16										
B27d			B17.17										
B27e			B17.6										
B27.2	B27.2												
B28						B17.13	B17.6	B17.6	B16.3				
B29	B17.8	B17.8	B17.8	B17.8	B17.8	B17.8	B17.8	B17.8	B16.4				
B29a			B17.19										
B29b			B17.20										
B30						B17.7	B17.7	B17.7	B16.5				
B31	B31	B17.9	B17.9	B17.9	B17.9	B17.9	B17.9	B17.9	B16.6				
B31a			B17.18	B17.18									

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Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
B31b			B17.21										
B31c			B17.22										
B31d		B17.25											
B32		B18	B18	B18	B18	B18	B18	B18	B18				
B33			B17.14	B17.14	B17.14	B17.14			B17.5	B17.5			
B33a			B17.24										
B33b		B18.4	B18.2										
B34	B19	B19	B19	B19	B19	B19	B19	B19	B19				
B34a	B17.10	B17.10	B17.10	B17.10	B17.10	B17.10	B18.1	B18.1					
B35	B18.1	B18.1	B18.1	B18.1					B17.10				
B35a			B17.23										
B35b		B18.3											
B36	B26	B26	B26	B26	B26	B21							
B36a	B22	B22	B22	B22	B22								
B36b	B23	B23	B23	B23	B23								
B36c	B25.2	B25	B25	B25	B25								
B36d		B24	B24	B24	B24								
B37	B27	B27	B27	B27	B27	B20							
B37a		B21.2	B21.2										
B37a1		B21.1	B21.1										
B37b	B27.1	B27.1	B27.1										
B38	B28	B28	B28	B28	B28								
B39	B29	B29	B29										
B39a		B29.1											
B40	B30	B30											
C0		B30											
C1		C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1	C1
C2		C2	C2	C2	C2	C2	C2	C2	C2	C2	C2	C2	C2
C2.1	C2.1												
C3											C0	C3	
C3a		C2.1	C2a	C2a	C2a	C2a							
C3b			C1.1										
C4											C4	C4	
C4a	C3.1	C3.1	C3.1	C3.1	C3.1	C3.1	C3.1	C3.1	C3.1				
C5		C5	C5	C5	C5	C5	C5	C5	C5		C5	C5	C5
C5a										C5	C5		
C5b							C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1

Texas wild-rice
Changes to Stand Designations

1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
C5c	C5c											C5a	
C5d							C5b				C5.2	C5.2	
C5e				C5b	C5b	C5b		C5.4	C5b		C5.3	C5.3	
C5f	C5f	C5.5											
C5g	C5g	C5c											
C5h		C5e											
C5i		C5d											
C5j		C5.6											
C5.5	C5.5												
C5.6	C5.6												
C5.7	C5.7												
C6		C6											
C6a									C6.1	C6.1	C6.1	C6.1	
C6b						C6.1	C6.1						C6a
C6c		C6b	C6b	C6b	C6b			C6b	C6b				
C6c1			C6b	C6b	C6b								
C6d	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C6d						
C6e							C6c						
C6f				C6g									
C6g		C5.7											
C7				C7	C7	C7	C7	C7.1	C7	C7	C7	C7	C7
C7a					C7.1	C7.1	C7.1	C7.1	C7	C7.1	C7.1	C7.1	
C8						C8							
C9		C9											
C9a											C9a	C9a	
C9b	C9b	C9b	C9b	C9b	C9b								
C9c	C9c	C9c	C9c	C9c	C9c								
C9d	C9d	C9d	C9d	C9d	C9d								
C9e		C9e											
C10		C10											
E0					E0								
E0a													
E1				E1									
E1a							E1c	E1a					
E1b						E1a	E1a						
E1c	E1c			E1c									
E1d					E1a								

Texas wild-rice
Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
E2	E2	E2b	E2b	E2a	E2								
E2a													
E2b													
E2c													
E2d													
E2e					E2b								
E2f	E2I				E2c								
E2g					E2d								
E2h	E2b	E2	E2	E2e									
E2i				E2									
E3			E1b	E1b	E3	E1b	E1b	E3	E3	E3	E3	E3	E3
E3a	E3	E3	E3	E3	E1b	E3							
E4													E4
E5			E5	E5	E5	E5	E5	E5	E5	E5	E5	E5	E5
E6	E6	E6	E6	E6	E6							E6	E6
E6a													E6.1
E6b													E6.2
E6c													E6.3
E6d		E6.3b	E6.3	E6.3	E6.3	E6.3	E6.3	E6.3	E6.4				
E6e					E6.8								
E6f			E6.3a										
E6g	E6.11	E6.3	E6.3										
E6h	E8c	E8c											
E7a			E7.4	E7									
E7b					E6.7	E7.1							E7a
E8	E8		E6.6										
E8a			E6.6	E8	E6.6	E8							
E8a1			E6.9	E6.9									
E8a2			E6.10										
E8b					E7.3								
E8c													
E8d													
E8e						E6.5							
E8f			E7.1	E7.1	E7.1	E7.1	E6.6	E6.6	E6.6				
E8f1						E7.2	E7.2	E7.2					
E8f2			E8b	E8b	E8b	E8b	E8b	E8b					
E8g					E8	E8	E8c						

Texas wild-rice
Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
E8h						E8c	E8d						
E8i	E8d	E8	H8d	E8d	E8	E8d	E8e						
E8i1	E8.3	E8d	E8	E8c									
E8i2				E8									
E8i3				E8f									
E8j				E8a	E8a	E8a							
E8k				E8.1	E8.1	E8.1							
E8k1	E9	E9	E9	E9									
E8k2	E9.1	E9.1	E9.1	E9.1									
E8.2	E8.2												
E9											E9	E9	
E9b												E9.1	
E9c						E8a	E8a						
E10				E9	E9.1	E9.1	E9.1	E10	E10	E10	E10	E10	
E10a					E9	E9	E9						
E10b						E10.1	E10.1						
E11						E11c	E11c	E11		E11	E11	E11	
E11a				E11d	E11d	E11d	E11d			E11a			
E11b										E11b			
E11c										E11.1			
E11e	E11e												
E12	E11	E11	E11	E11	E11	E11	E11	E12.1	E12.1		E12	E12	
E12a	E11c	E11c	E11c	E11c	E11e	E11e							
E13							E13	E13	E13	E13	E13	E13	
E14			E14a	E14	E14	E14	E14	E14		E14	E14	E14	
E14a				E14.1									
E14b	E14b												
E15			E12.2										
E16	E14	E14	E14										
F1													F1
F2	F2	F2	F2	F2	F2	F2	F2	F2	F2	F2	F2	F2	
F3			P2.2	P2.2		P2.2	P2a	P2.1			F3	F3	
F3a			P2.1	F2.1									
F4			F3	F3	F3	F3	F3	F3	F2.1	F4	F4	F4	
F4a									F4.5	F4.3			
F4b				F4.4	F4.4	F4.4	F4.4	F4.4	F4.4				

Texas wild-rice
Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
F4c				F4	F4	F4	F4	F4	F4				
F4d										F4.4a	F4.1		
F4e											F4.2		
F4f	F5	F5	F5	F5.1	F5.1								
F4.4	F4.4												
F4.6	F4.6												
F5				F5	F5	F5.1	F5.1	F5.1	F5.2	F5	F5.2	F5	F5
F5a										F5.1	F4.2	F5.1	
F5b						F5	F5	F5	F5	F4.1			
F5c	F6e	F6e	F6e										
F6		F6	F6	F6	F6	F6	F6	F6	F6	F6a	F6	F6	F6
F6a										F5.2			
F6b										F6b			
F6c										F5.1			
F6d										F3			
F6e										F4			
F6f			F6c										
F6g			F6d										
F7	F7	F7	F7	F7	F7	F7	F7	F7	F7	F7	F7	F7	F7
F8										F8	F8	F8	F8
F8a						F8d	F8d	F8d		F8c		F8a	
F8b				F8	F8	F8	F8			F8b	F7.1		
F8b1	F8	F8	F8										
F8b2			F8g										
F8c				F8b									
F8d		F8f	F8e	F8f									
F8e				F8e									
F8g	F8g												
F9						F9.1	F9.1	F9.1	F9.1	F9	F9	F9	F9
F10										F10	F10	F10	F10
F11	F11	F11	F11	F11	F11	F11	F11	F11	F11	F11	F11	F11	F11
F11a			F11.1										
F11b		F12a	F12a										
F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12	F12
F12a			F12b										
F13	F13	F13	F13	F13	F13	F13	F13	F13	F13	F13	F13	F13	F13
F14	F14	F14	F15	F14	F14	F14	F14						

Texas wild-rice
Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
F15		F12d	F14	F15									
F16					F16								
F17	F12c	F12c											
G0	G0												
G1	G1	G1	G1	G1	G1	G1	G1	G1	G1	G1	G1	G1	G1
G1b	G1b												
G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
G3	G3	G3	G3	G3	G3	G3	G3	G3	G3	G3	G3	G3	G3
G3a	G3a	G1a											
G3b	G3b	G2a											
G3c	G3c												
G4						G4	G4						
H0a							H0a						
H1								H1		H1	H1	H1	H1
H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2	H2
H2a	H2c	H2c	H2c	H2c	H2b								
H2b	H2d	H2d	H2d	H2d									
H2c		H2e	H2e	H2e									
H2d			H5										
H2e		H2g											
H2f		H2l											
H3				H2a	H2a	H3	H2a	H3					
H4					H2b	H2b	H3	H3	H4				
H4a								H4a					
H4b							H4b						
I1									I1		I1	I1	I1
I2										I2		I2	I2
I3											I3		I3
I4			I4		I4	I4							
I4a											I4a		
I5									I5	I5	I5		I5
I6							I8		I8	I8			
I6a										I6	I6		
I6b											I7		
I7												I7	
J1	J1	J1	J1	J1	J1	J1	J1	J1	J1	J1	J1	J1	J1
J1a				J1a		J1a							

Texas wild-rice
Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
J1b		J1b	J1b										
J2													J2
J3						J3		J3	J3		J3	J3	J3
J3a			J3.1										
J4							J4	J4a	J4	J4	J4	J4	J4
J4a	J4	J4	J4	J4	J4		J4c	J4		J4	J4	J4	J4
J4b							J4d	J4b					
J5										J5	J5	J5	J5
J6		J6											
J6a											J6a		
J6b	J6d	J6d	J6d	J6d	J6d	J6b	J6b						
J6b1			J6f	J6e	J6e								
J6c				J6c	J6c	J6c							
J7													J7
J7a				J7.1									
J8							J8a	J8a	J8	J8	J8	J8	J8
J9	J8	J8b	J8.1	J8	J8	J8	J8	J9a	J9a	J9	J9	J9	J9
J9a				J7.2	J7.2								
J9b		J8	J8										
J9c			J8.2										
J9d	J11	J11											
J10						J11c	J11						J10
J11			J11	J11	J11		J11a	J11	J11	J11	J11	J11	J11
J11a							J10						
J11b							J11b						
J11c			J10			J10	J11c						
J12					J12		J12						
J13		J13											
J13a				J13a	J13a	J13a	J13a						
J14						J14							
J15						J15		J15	J15	J15	J15	J15	J15
J16			J16										
J16a							J17	J17					
J16b								J19					
J17			J18a	J18a	J19	J18	J18	J18a	J17	J17	J17	J17	J17
J17a					J17								
J18				J18									

Texas wild-rice
Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
J18.1	J18.1												
J19													J19
J20					J20	J20a	J20a	J20	J20	J20	J20	J20	J20
J20a				J20	J20	J20	J20						
J21			J21	J21	J21	J21	J21	J21	J21	J21	J21	J21	J21
J22	J21a	J21a	J21a	J21a	J21a	J21a	J21a	J21a	J22	J21a	J21a		
J23												J23	J23
J24				J25	J25	J25						J24	J24
J25												J25	J25
J26			J26	J26	J26	J26	J26	J26	J26	J26	J26	J26	J26
J27						J27	J27	J27		J27	J27	J27	J27
J28									J28	J28			
K1					K1	K1	K1	K1	K1	K1	K1	K1	K1
K1a	K2a	K2a	K2a	K2a	K2a	K2a	K2a	K2a					
K1b	K2aa	K2aa	K2aa										
K2			K2	K2	K2	K2	K2	K2	K2	K2	K2	K2	K2
K2a					K2.1								
K3			K4	K4	K4	K4	K4	K4	K3	K3	K3	K3	K3
K4									K4	K4	K4	K4	K4
K4a						K6.2	K6.2		K4.1				
K5											K5	K5	
K6									K6	K6	K6	K6	
K6a									K6.1	K6.1			
K7			K7	K7	K7	K7	K7	K7	K7	K7	K7	K7	
K7a									K7.1				
K7b			K7a										
K7c			K7b										
K8			K8	K8	K8	K8	K9	K8	K8	K8	K8	K8	K8
K9						K9	K8	K9	K9	K9	K9	K9	K9
K9a							K9.1						
K9b					K9.2	K9.2	K9.2	K9.2					
K10			K10	K10	K10	K10	K10	K10	K10	K10	K10	K10	K10
K10a			K10.2	K10.2	K10.2	K10.2	K10.2	K10.2	K10.2	K10.1	K10.1	K10.1	K10.1
K10b			K10.3		K10.3	K10.3	K10.3	K10.3	K10.3				
K10c			K10.1		K10.1	K10.1	K10.1	K10.1					
K10c1	K9.1	K9.1	K9.1	K9.1	K9.1	K9.1	K9.1	K9.1					
K10d				K10.3c		K10.3c	K10.3a	K10.3a					

Texas wild-rice
Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
K10e				K10.3b	K10.3b	K10.3b		K10.3b					
K11									K11	K11	K11	K11	K11
K11a													
K11b							K11.2	K11.2					
K11c				K14	K14	K14	K14						
K11d				K13.1									
K12								K12	K12		K12	K12	K12
K13								K13		K13	K13	K13	K13
K14										K14	K14	K14	K14
K15		K15	K15	K15	K15	K15	K15	K15	K15	K15	K15	K15	K15
K15a						K15a			K15a				
K15b				K15a									
K15c				K15b									
K15d				K15c									
K15e	K15d	K15d											
K16							K16	K16		K16	K16	K16	K16
K17						K17	K17	K17	K17	K17	K17	K17	K17
K17a						K17a	K17a						
K17b							K17b						
K18			K18	K18	K18	K18	K18	K18		K18			K18
K18a			K18.1	K18.1	K18.1	K18.1	K18.1						
K18b			K18.2										
K18c			K18.3										
K19			K19	K19	K19	K19	K19	K19					K19
K20		K20	K20	K20	K20	K20	K20	K20	K20	K20	K20	K20	K20
K20a			K20.1										
K21											1	K21	K21
K21a												K21.1	
K22												K22	
K23									K23	K23		K23	
K24												K24	
K25												K25	
K26									K26	K26	K26	K26	K26
K26a									K26a				
K27												K27	
K28											K28	K28	
K28a											K28a		

Texas wild-rice
Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
K28b	K27.1	K27.1											
K28c	K27.2	K27.2											
K29						K29	K29	K29	K29	K29	K29	K29	K29
K29a												K29a	
K29b								K29b	K29b	K29b	K29b		
K30							K30	K30	K30	K30	K30	K30	K30
K31												K31	K31
K32										K32	K32	K32	K32
K33										K33	K33	K33	K33
K34			K34	K34	K34	K34	K34	K34	K34	K34	K34	K34	K34
K35			K35	K35	K35	K35	K35	K35	K35	K35	K35	K35	K35
K35a											K35a		
K35b									K35a	K35b			
K36													K36
K36a						K36.1	K36.1	K36.1	K36.1	K36.1	K36.1	K36.1	
K36b			K36.2	K36.2	K36.2	K36.2	K36.2	K36.2	K36.2	K36.2	K36.2	K36.2	
K36c			K36.3a	K36.3	K36.3	K36.3	K36.3	K36.3	K36.3	K36.3	K36.3	K36.3	
K36d			K36.3										
K37			K37	K37	K37	K37	K37	K37	K37	K37	K37	K37	K37
K37a			K38a	K38	K38a	K37c			K37a	K37a	K37a	K37a	
K37b						K37b							
K37c			K37c	K37c	K37a								
K37d			K37a										
K38			K38	K38a	K38	K38	K38	K38	K38	K38	K38	K38	K38
K38a		K38a	K38a										
K39						K39							
K39a						K41							
K39b						K41c							
K40						K40							
K40a						K41b							
K41						K41b							
K41a						K41	K41a	K41	K41	K41	K41	K41	K41
K41a1						K41.1	K41.1	K41.1	K41.1	K41.1	K41.1	K41.1	K41.1
K41a2							K41.1a	K41a					
K41a3						K41.1b	K41.1b						
K41b						K41.3							
K41c						K41.2	K41.2	K41.2	K41.2	K41.2	K41.2	K41.2	K41.2
						K42	K42	K42	K42	K42	K42	K42	K42

Texas wild-rice
Changes to Stand Designations
1989-2001

Stand	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989
K41d		-					K42a						
K41e		-					K42b						
K41f	K41.4	K41.4	K41.4										
K41g	K41d	K41d											
K41h	K41.1	K41.1											
K42			K43	K43	K43	K43	K43	K43	K42	K43	K43		
K42a					K42c	K43							
K43			K44	K44	K44	K44	K44	K44	K43	K44	K44	K43	
K44			K45	K45	K45	K45	K45	K45	K44	K45	K45	K44	
K45													K45
K47						K47.2				K47.1	K47		
K48					K48	K48							
L0			L0	L0		L0							
L0a					L0.1								
L1					L1	L1	L1	L1	L1	L1	L1		
M1												M1	
X1												X1	

APPENDIX 2

Texas wild-rice
Plant Stand Attributes for 1989

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
A1	10.00	1.20		65	7.8000
A2	6.50	2.00	nd	50	6.6200
A3	5.90	2.40	nd	60	8.6800
B1	10.15	2.40	nd	70	17.0000
B2	8.20	2.60	nd	70	15.0200
B3	5.10	2.30	nd	35	4.1000
B4	5.50	1.80	nd	65	6.4600
B5	6.90	3.40	nd	45	10.5800
B6	4.20	2.80	nd	50	5.9700
B7	2.40	0.80	nd	70	1.4000
B8	4.00	2.20	nd	60	5.2500
B9	1.30	0.80	nd	70	0.7500
B10	4.00	1.40	nd	50	2.8500
B11	3.40	1.50	nd	50	2.5500
B12	3.70	1.30	nd	45	2.2000
B13	2.10	0.60	nd	90	1.1500
B14	1.10	1.00	nd	70	0.7000
B15	1.40	0.70	nd	75	0.7500
C1	2.40	2.00	nd	dm	2.2000
C2	16.50	5.10	nd	dm	34.0500
C3	4.00	1.70	nd	dm	2.6500
C4	1.20	1.00	nd	dm	0.4200
C5	24.30	8.40	nd	dm	102.6000
C6	17.86	3.70	nd	100	66.0820
C7	4.15	0.70	nd	100	2.9050
C8	1.75	0.70	nd	100	1.2250
C9	17.70	7.20	nd	90	114.6960
E1	5.10	2.75	nd	80	11.2200
E2	5.10	4.30	nd	50	10.9650
E3	4.20	2.90	nd	50	6.0900
E4	1.30	1.60	nd	80	1.6640
E5	1.50	0.50	nd	50	0.3750
E6	1.40	0.25	nd	100	0.3500
E7	2.30	0.65	nd	100	1.4950
E7a	1.25	0.55	nd	100	0.6875
E8	2.85	2.80	nd	80	6.3840
E8a	1.50	0.44	nd	100	0.6600
E9	1.95	1.10	nd	100	2.1450
E10	1.60	2.10	nd	100	3.3600
E11	5.35	3.60	1.05	95	18.2970
E12	3.00	1.40	0.87	100	4.2000
E13	3.20	2.00	1.45	40	2.5600
E14	6.80	1.60	0.52	100	10.8800
F1	0.72	0.20	0.37	70	0.1008
F2	2.00	0.80	0.95	100	1.6000
F3	2.57	0.46	2.07	100	1.1822
F4	4.69	0.19	1.08	80	0.7129
F5	2.15	0.95	1.11	100	2.0425

Texas wild-rice
Plant Stand Attributes for 1989

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
F6	18.95	9.00	0.50	35	59.6925
F7	3.20	2.63	1.24	80	6.7328
F8	12.70	5.00	1.00	45	28.5750
F9	2.80	0.85	0.80	80	1.9040
F10	1.50	1.10	1.13	75	1.2375
F11	8.10	3.00	1.10	90	21.8700
F12	34.30	8.80	1.00	50	150.9200
G1	3.70	5.94	1.60	85	5.6610
G2	3.40	11.88	0.75	90	11.0160
G3	3.55	2.08	1.02	85	1.9010
H1	1.50	0.60	0.60	100	0.9000
H2	8.00	1.75	0.42	75	10.5000
I1	2.80	0.85	0.30	100	2.3800
I2	3.15	3.30	0.30	100	3.1500
I3	1.65	1.82	0.33	100	0.9075
I4	2.80	1.70	0.27	80	3.8080
I5	3.50	0.33	0.70	100	1.1550
I6	2.65	0.51	1.08	100	1.3515
I7	1.55	1.40	0.89	5	0.1085
J1	3.60	2.70	0.50	50	4.8600
J2	3.50	3.10	0.66	65	7.0525
J3	3.00	0.50	0.60	100	1.5000
J4	3.75	2.70	0.90	95	9.6188
J5	2.00	0.50	0.43	100	1.0000
J6	5.10	1.80	0.38	100	9.1800
J7	5.60	2.60	0.38	30	4.3680
J8	2.00	1.95	0.35	60	2.3400
J9	4.30	3.50	0.30	15	2.2575
J10	5.90	3.70	0.45	40	8.7320
J11	7.20	5.70	0.29	40	16.4160
J12	2.35	1.80	0.60	60	2.5380
J13	4.50	2.70	0.53	75	9.1125
J14	1.00	0.33	0.56	100	0.3300
J15	3.50	2.00	0.35	5	0.3500
J16	2.00	0.75	0.64	100	1.5000
J17	2.00	0.76	0.81	100	1.5200
J18	4.15	2.30	0.50	15	1.4318
J19	1.45	0.50	0.82	85	0.6163
J20	4.85	2.20	0.60	35	3.7345
J21	4.70	1.40	0.40	25	1.6450
J22	2.10	1.10	0.35	50	1.1550
J23	3.50	0.45	1.02	90	1.4175
J24	2.35	0.23	0.68	90	0.4865
J25	1.90	0.60	0.76	20	0.2280
J26	1.50	0.42	0.83	100	0.6300
J27	1.30	0.82	0.56	95	1.0127
K1	2.30	2.40	1.45	90	4.9680

Texas wild-rice
Plant Stand Attributes for 1989

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
K2	5.00	4.30	0.77	50	10.7500
K3	1.20	0.55	1.20	100	0.6600
K4	1.90	1.20	0.80	90	2.0520
K5	1.10	0.50	0.80	100	0.5500
K6	1.90	0.75	0.47	100	1.4250
K7	0.35	0.03	0.30	100	0.0105
K8	1.80	1.10	0.45	60	1.0560
K9	0.90	1.20	0.40	5	0.0540
K10	0.50	0.20	0.40	100	0.1000
K11	2.70	1.30	0.54	80	2.8080
K12	2.60	2.15	0.90	40	2.2360
K13	1.10	0.20	0.88	100	0.2200
K14	2.80	0.50	1.00	100	1.4000
K15	5.50	6.10	0.60	10	3.3550
K16	0.80	0.10	0.62	100	0.0800
K17	4.10	0.20	0.55	50	0.4100
K18	0.75	0.15	0.81	90	0.1013
K19	2.00	0.30	0.85	75	0.4500
K20	3.30	1.00	0.65	85	2.8050
K21	1.80	0.60	0.95	50	0.5400
K22	1.40	0.30	0.63	95	0.3990
K23	0.90	0.20	0.75	100	0.1800
K24	2.10	1.30	0.61	25	0.6825
K25	3.40	0.30	0.70	100	1.0200
K26	0.75	0.55	0.60	50	0.2063
K27	1.10	0.43	0.55	90	0.4257
K28	3.90	2.20	0.75	15	1.2870
K29	1.10	0.20	0.95	100	0.2200
K30	1.10	0.25	0.70	100	0.2750
K31	1.90	0.30	1.05	60	0.3420
K32	1.40	1.00	0.65	15	0.2100
K33	0.60	0.10	0.55	100	0.0600
K34	1.10	0.20	0.60	100	0.2200
K35	0.65	0.25	0.65	100	0.1625
K36	1.80	2.64	0.75	95	1.3680
K37	7.80	2.75	0.75	5	1.0725
K38	5.90	2.20	0.65	20	2.5960
K39	3.35	1.90	0.75	50	3.1825
K40	1.50	1.50	1.20	75	1.6875
K41	11.00	5.00	0.80	35	19.2500
K42	1.80	1.25	0.85	75	1.6875
K43	2.10	1.90	0.95	90	3.5910
K44	1.60	1.10	0.50	25	0.4400
K45	1.55	1.00	1.17	35	0.5425
L1	2.10	1.50	0.68	90	2.8350
M1	2.10	0.25	0.84	100	0.5250
X1	1.70	0.61	2.10	100	1.0370

nd = no data

Texas wild-rice
Plant Stand Attributes for 1990

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
A1	10.40	2.00	0.70	95	19.7600
A2	7.40	4.90	0.60	90	32.6340
A3	6.00	3.20	0.50	95	18.2400
A4	3.20	2.30	0.70	95	6.9920
B1	10.70	3.70	0.55	75	29.6925
B2	9.30	4.00	0.60	75	27.9000
B2.1	9.55	2.30	0.60	80	17.5720
B2.2	1.10	0.30	0.80	100	0.3300
B3	5.20	2.20	0.80	80	9.1520
B3.1	2.40	1.15	1.00	90	2.4840
B5	12.60	4.50	0.80	50	28.3500
B7	3.90	0.20	1.10	100	0.7800
B8	4.10	3.50	1.20	100	14.3500
B10	3.05	2.40	0.90	60	4.3920
B11	2.00	1.95	0.90	95	3.7050
B11.1	3.90	2.70	1.00	90	9.4770
B14	2.20	1.15	0.70	100	2.5300
B15	2.20	1.40	0.90	80	2.4640
B16	3.10	1.35	0.75	75	3.1388
B17	4.50	1.40	0.80	90	5.6700
B18	1.40	0.40	0.75	80	0.4480
C0	2.65	0.50	0.79	20	0.2650
C1	3.00	2.30	0.75	75	5.1750
C2	17.20	6.70	0.90	25	28.8100
C4	1.90	0.50	1.40	100	0.9500
C5	26.65	8.57	0.70	85	194.1319
C5a	3.10	1.25	1.30	70	2.7125
C5.1	4.05	2.90	0.45	80	9.3960
C5.2	7.80	3.15	0.90	100	24.5700
C5.3	2.40	0.85	1.18	95	1.9380
C6	15.20	6.70	0.50	80	81.4720
C6a	2.00	0.90	0.30	100	1.8000
C6.1	1.40	1.90	0.36	60	1.5960
C7	3.80	1.30	0.43	100	4.9400
C7.1	1.35	0.33	0.40	100	0.4455
C8	2.10	1.00	0.50	50	1.0500
C9	13.80	9.90	0.70	85	116.1270
C9a	2.44	1.40	0.50	75	2.5620
E1	7.45	3.00	0.50	65	14.5275
E2	5.60	3.30	0.75	40	7.3920
E3	5.00	5.45	0.95	25	6.8125
E5	2.00	1.00	1.05	50	1.0000
E6	1.30	0.30	0.80	85	0.3315
E7	1.90	1.50	0.40	60	1.7100
E8	3.65	3.00	0.65	70	7.6650
E8a	2.80	1.70	0.70	55	2.6180
E9	1.70	1.10	0.85	100	1.8700
E9.1	1.60	1.10	1.10	50	0.8800
E10	3.00	2.70	0.90	30	2.4300

Texas wild-rice
Plant Stand Attributes for 1990

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
E11	5.95	3.50	1.10	60	12.4950
E12	4.20	1.30	1.05	50	2.7300
E13	3.20	0.80	1.30	100	2.5600
E14	6.80	1.55	1.85	70	7.3780
F2	3.05	1.50	0.90	50	2.2875
F3	2.15	0.20	1.70	60	0.2580
F4	4.80	1.00	1.20	50	2.4000
F5	2.30	0.40	1.20	25	0.2300
F6	16.10	6.86	0.95	20	22.0892
F7	3.20	2.65	1.20	75	6.3600
F8	3.45	2.10	1.67	40	2.8980
F8a	7.60	4.65	1.20	35	12.3690
F9	2.26	1.10	1.15	90	2.2374
F10	3.40	0.85	0.85	85	2.4565
F11	9.00	3.80	1.10	90	30.7800
F12	33.70	11.30	1.10	40	152.3240
F13	4.00	1.65	1.40	70	4.6200
F14	1.40	0.60	0.90	35	0.2940
F15	2.50	0.40	1.00	30	0.3000
G1	3.45	2.39	1.60	30	2.4737
G2	3.14	0.70	1.50	85	1.8683
G3	4.37	3.90	0.90	85	14.4866
H1	1.30	0.60	0.71	30	0.2340
H2	11.70	1.80	0.35	55	11.5830
I1	1.42	0.16	0.32	100	0.2272
I2	1.64	0.20	0.23	100	0.3280
I3	1.22	0.45	0.20	55	0.3020
I4	2.13	0.36	0.26	65	0.4984
I4a	1.79	0.56	0.30	75	0.7518
I5	1.95	0.30	0.55	90	0.5265
I6	1.50	1.70	0.88	65	1.6575
I6a	2.32	0.43	0.99	70	0.6983
I6b	1.77	1.05	1.09	30	0.5576
J1	9.29	3.23	0.45	50	15.0034
J3	2.85	0.50	0.60	75	1.0688
J4	4.62	2.70	1.20	75	9.3555
J5	2.85	0.80	0.50	75	1.7100
J6	6.56	5.20	0.40	50	17.0560
J8	3.00	1.90	0.40	35	1.9950
J9	2.70	1.40	0.40	25	0.9450
J11	10.90	8.80	0.50	30	28.7760
J12	2.90	1.30	0.60	50	1.8850
J13	6.70	3.00	0.60	75	15.0750
J14	3.00	0.60	0.52	50	0.9000
J15	3.50	1.30	0.50	80	3.6400
J16	2.50	0.80	0.70	90	1.8000
J17	2.40	1.50	0.80	60	2.1600

Texas wild-rice
Plant Stand Attributes for 1990

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
J18	4.00	1.90	0.55	45	3.4200
J20	5.20	2.20	0.80	60	6.8640
J21	0.90	0.20	0.50	60	0.1080
J21a	0.38	0.10	0.60	40	0.0152
J23	1.70	0.18	0.55	90	0.2754
J24	4.70	0.90	0.88	30	1.2690
J25	2.85	0.50	1.05	40	0.5700
J26	4.10	2.14	0.90	65	5.7031
J27	2.05	0.60	0.85	70	0.8610
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K1	3.42	2.60	1.70	75	6.6690
K2	9.60	4.45	0.82	60	25.6320
K3	1.50	1.00	1.80	85	1.2750
K4	2.90	1.40	0.87	60	2.4360
K5	2.00	0.50	0.77	70	0.7000
K6	5.00	1.67	0.46	70	5.8450
K7	4.20	0.30	0.50	90	1.1340
K8	4.10	1.00	0.65	85	3.4850
K9	1.70	0.30	0.55	60	0.3060
K10	3.55	0.90	1.00	80	2.5560
K10.1	2.60	0.65	0.90	85	1.4365
K11	3.00	2.19	0.94	40	2.6280
K12	1.59	0.35	1.20	60	0.3339
K13	1.87	0.40	1.20	70	0.5236
K14	3.78	0.90	1.24	50	1.7010
K15	5.62	6.73	0.78	50	18.9113
K16	1.75	0.30	0.65	75	0.3938
K17	6.00	2.00	0.74	55	6.6000
K20	3.20	1.00	1.00	35	1.1200
K21	2.80	0.60	1.00	90	1.5120
K21.1	1.47	0.20	0.70	75	0.2205
K22	2.40	1.40	0.65	30	1.0080
K23	4.10	0.40	0.70	80	1.3120
K24	2.00	0.50	0.82	100	1.0000
K25	1.80	0.25	0.50	90	0.4050
K26	1.31	0.16	0.63	95	0.1991
K28	1.84	0.30	0.65	100	0.5520
K28.1	1.88	0.30	0.60	35	0.1974
K29	3.19	0.40	0.90	20	0.2552
K29a	1.70	1.03	0.80	10	0.1751
K30	1.24	0.44	1.15	40	0.2182
K31	2.15	0.23	1.60	80	0.3956
K32	1.74	0.40	0.65	70	0.4872
K33	2.20	0.50	0.59	80	0.8800
K34	2.30	0.40	0.73	80	0.7360
K35	1.90	1.00	0.80	55	1.0450
K36.1	1.66	0.16	0.75	80	0.2125
K36.2	3.41	1.17	0.73	20	0.7979
K36.3	2.37	2.44	0.73	25	1.4457
K37	6.00	2.10	0.66	60	7.5600
K37a	1.60	0.45	0.60	85	0.6120
K38	6.55	2.58	0.94	45	7.6046

Texas wild-rice
Plant Stand Attributes for 1990

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
K39	1.68	1.40	1.18	30	0.7056
K40	2.47	0.41	1.15	40	0.4051
K41	15.45	5.03	0.86	65	50.5138
K41.1	6.81	2.15	0.82	60	8.7849
K41.2	3.10	1.00	1.13	75	2.3250
K42	6.79	2.70	0.90	55	10.0832
K43	1.65	0.57	0.75	100	0.9405
K44	1.77	0.55	1.33	70	0.6815
K45	2.41	1.52	1.06	90	3.2969
K47	2.05	0.50	1.00	75	0.7688
L1	1.75	0.29	0.69	85	0.4314

Texas wild-rice
Plant Stand Attributes for 1991

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
A1	11.00	2.30	0.80	75	18.9750
A2	8.70	4.90	0.67	80	34.1040
A3	6.00	3.90	0.70	95	22.2300
A4	3.85	3.00	0.83	70	8.0850
B1	12.20	3.60	0.90	60	26.3520
B2	10.90	3.95	0.81	75	32.2913
B2.1	4.58	1.35	0.63	95	5.8739
B2.1a	5.00	1.45	1.10	100	7.2500
B2.2	9.20	2.40	0.83	25	5.5200
B3	7.70	1.65	1.00	50	6.3525
B3.1	4.90	1.70	1.10	85	7.0805
B4	6.60	2.80	0.75	90	16.6320
B5	14.10	3.60	0.85	60	30.4560
B7	4.30	2.10	1.12	40	3.6120
B8	4.70	3.40	1.15	85	13.5830
B10	11.70	3.90	1.50	40	18.2520
B11	5.10	2.80	1.00	85	12.1380
B11.1	5.60	3.70	1.15	85	17.6120
B13	2.20	1.40	1.16	100	3.0800
B15	3.30	1.20	0.85	90	3.5640
B15.1	3.00	1.70	1.20	90	4.5900
B16	4.00	1.90	1.10	70	5.3200
B16.1	2.50	0.90	0.70	90	2.0250
B16.2	2.50	0.70	0.95	50	0.8750
B17	5.80	1.60	0.95	90	8.3520
B17.1	2.40	1.30	0.65	60	1.8720
B17.2	2.30	0.90	0.65	85	1.7595
B17.3	1.80	0.90	0.65	85	1.3770
B17.4	2.10	0.80	0.60	85	1.4280
B18	2.30	0.40	0.95	60	0.5520
C1	4.10	2.14	1.00	80	7.0192
C2	16.30	6.15	1.20	45	45.1103
C5	33.50	8.50	0.90	50	142.3750
C5.1	4.40	3.00	0.60	95	12.5400
C5.2	9.10	2.80	1.15	70	17.8360
C5.3	3.10	0.70	1.30	65	1.4105
C6	19.80	6.20	0.50	40	49.1040
C6.1	1.90	2.40	0.60	70	3.1920
C7	3.50	1.30	0.62	90	4.0950
C7.1	1.30	0.40	0.60	80	0.4160
C8	2.20	1.00	0.60	50	1.1000
C9	14.80	9.40	0.60	75	104.3400
C9a	2.90	1.60	0.70	75	3.4800
E1	9.28	3.20	0.75	90	26.7264
E2	6.30	3.15	0.90	30	5.9535
E3	5.80	5.90	1.11	50	17.1100
E5	1.30	1.10	1.25	60	0.8580
E7	2.90	2.00	0.65	70	4.0600
E8	6.20	5.10	0.85	40	12.6480

Texas wild-rice
Plant Stand Attributes for 1991

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
E8a	2.80	1.20	1.20	90	3.0240
E9.1	3.30	1.40	1.30	65	3.0030
E10	3.60	2.30	1.20	50	4.1400
E11	11.60	3.70	1.35	40	17.1680
E13	2.00	2.40	1.40	40	1.9200
E14	8.00	2.20	1.50	75	13.2000
F2	3.80	1.00	0.96	70	2.6600
F4	5.90	0.98	1.45	50	2.8910
F5.1	2.10	1.00	0.95	40	0.8400
F5.2	1.90	0.60	1.40	80	0.9120
F6	15.70	11.20	1.40	25	43.9600
F7	3.08	2.37	1.45	60	4.3798
F7.1	4.40	0.90	2.40	60	2.3760
F8	12.40	5.80	1.90	40	28.7680
F9	4.00	1.25	1.20	80	4.0000
F10	2.10	0.80	1.30	45	0.7560
F11	9.70	3.50	1.25	90	30.5550
F12	43.20	8.30	0.60	40	143.4240
F13	4.60	1.50	1.30	40	2.7600
F14	2.50	0.70	1.30	90	1.5750
F15	2.60	0.60	1.20	100	1.5600
G1	2.30	1.30	1.60	60	1.7940
G2	2.30	0.90	1.20	80	1.6560
G3	3.00	3.70	1.50	85	9.4350
H1	1.20	0.40	0.95	80	0.3840
H2	14.18	1.77	0.65	30	7.5296
H3	3.00	0.25	0.45	90	0.6750
H4	2.50	0.15	0.35	20	0.0750
I1	1.30	0.15	0.40	90	0.1755
I4	0.50	0.35	0.40	50	0.0875
I5	2.15	0.45	0.55	65	0.6289
I6	1.45	0.25	1.00	75	0.2719
I6a	1.05	0.30	1.20	75	0.2363
J1	8.95	3.10	0.60	30	8.3235
J3	3.80	0.35	0.80	95	1.2635
J4	5.30	3.20	1.00	50	8.4800
J5	3.30	0.90	0.70	90	2.6730
J6	7.40	3.90	0.60	70	20.2020
J8	1.90	2.20	0.70	40	1.6720
J9	1.50	0.90	0.50	80	1.0800
J11	8.90	8.10	0.50	60	43.2540
J12	2.20	1.70	0.90	30	1.1220
J13	5.20	3.00	0.55	50	7.8000
J14	2.85	0.43	0.71	60	0.7353
J15	3.40	1.00	0.65	35	1.1900
J16	2.40	0.90	0.90	30	0.6480
J17	5.10	1.00	1.15	30	1.5300

Texas wild-rice
Plant Stand Attributes for 1991

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
J18	2.90	1.80	0.75	33	1.7226
J20	5.80	2.50	1.00	30	4.3500
J21	2.50	0.15	0.70	90	0.3375
J21a	2.90	0.30	0.70	75	0.6525
J26	3.90	1.70	1.15	75	4.9725
J27	3.25	0.90	0.95	75	2.1938
J28	2.60	1.20	0.80	90	2.8080
K1	3.30	3.70	1.80	75	9.1575
K2	9.20	3.90	1.10	60	21.5280
K3	1.60	0.30	1.95	90	0.4320
K4	3.10	2.50	1.10	30	2.3250
K6	5.80	3.20	0.70	50	9.2800
K6.1	1.80	0.40	0.60	90	0.6480
K7	1.80	0.50	0.60	80	0.7200
K8	3.70	1.30	0.75	75	3.6075
K9	1.60	0.45	0.75	90	0.6480
K10	2.40	0.90	1.20	70	1.5120
K10.1	2.20	0.80	1.00	85	1.1440
K11	2.20	1.40	1.10	50	1.5400
K11.1	2.70	0.90	1.10	80	1.9440
K12	0.80	0.20	1.30	100	0.1600
K13	0.85	0.20	1.40	50	0.0850
K14	2.60	0.20	1.30	40	0.2080
K15	6.70	6.40	0.90	35	15.0080
K16	1.50	0.20	0.80	80	0.2400
K17	6.60	1.60	0.90	45	4.7520
K18	1.60	0.40	0.90	80	0.5120
K20	3.50	1.00	1.00	70	2.4500
K23	2.60	0.30	0.96	90	0.7020
K26	0.80	0.20	0.90	90	0.1440
K29	1.50	0.20	0.80	80	0.2400
K29b	1.30	0.05	0.70	80	0.0520
K30	1.70	0.70	1.30	60	0.7140
K32	3.50	0.40	0.70	90	1.2600
K33	1.80	0.50	0.90	80	0.7200
K34	2.20	0.40	0.90	85	0.7480
K35	2.50	1.85	0.85	85	3.9313
K35a	5.90	2.10	1.15	50	6.1950
K36.1	1.40	0.20	0.95	90	0.2520
K36.2	0.95	0.20	0.95	70	0.1330
K36.3	2.80	1.50	0.90	50	2.1000
K37	6.20	1.65	0.70	60	6.1380
K37a	2.40	1.00	0.95	90	2.1600
K38	4.40	2.10	1.10	70	6.4680
K39	1.90	1.90	1.30	90	3.2490
K40	1.70	0.70	1.50	80	0.9520
K41	13.50	4.30	1.00	60	34.8300
K41.1	5.60	2.00	1.10	60	6.7200
K42	6.80	2.80	0.85	30	5.7120
K43	3.00	0.90	0.90	85	2.2950
K44	3.40	0.80	1.60	80	2.1760

Texas wild-rice
Plant Stand Attributes for 1991

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
K45	3.40	1.65	1.20	80	4.4880
K47.1	1.90	1.00	1.30	65	1.2350
L1	1.70	0.20	1.20	85	0.2890

Texas wild-rice
Plant Stand Attributes for 1992

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
A1	11.45	2.43	1.50	70	19.4765
A2	2.10	2.20	1.50	80	3.6960
A3	4.75	3.20	0.51	60	9.1200
A5	1.20	1.90	1.00	85	1.9380
B1	11.00	2.60	1.10	80	22.8800
B2	10.10	7.10	1.00	40	28.6840
B2.2	2.55	1.00	1.70	75	1.9125
B3	6.70	2.70	1.00	80	14.4720
B3.1	4.00	1.20	1.05	25	1.2000
B4	2.40	0.60	1.35	90	1.2960
B5	9.40	2.80	0.80	85	22.3720
B7	2.95	2.77	0.83	30	2.4515
B8	4.00	2.20	1.60	60	5.2800
B8a	1.20	1.73	1.49	85	1.7646
B10	17.70	5.80	1.16	65	66.7290
B10.1	2.70	1.80	1.20	20	0.9720
B11	5.70	1.60	1.45	85	7.7520
B11.1	4.90	4.30	1.30	70	14.7490
B11.2	1.40	1.60	1.60	85	1.9040
B13	1.30	0.45	1.50	90	0.5265
B15	1.90	1.10	1.70	80	1.6720
B15.1	1.80	1.60	1.60	80	2.3040
B15.2	3.20	1.00	1.35	85	2.7200
B15.3	2.75	1.45	1.10	85	3.3894
B16	2.50	1.10	1.10	90	2.4750
B16.2	1.50	0.35	1.00	40	0.2100
C2	19.30	5.90	1.30	75	85.4025
C5	33.50	8.10	0.95	65	176.3775
C5.1	5.90	2.40	0.60	70	9.9120
C6	16.80	6.70	0.64	80	90.0480
C6.1	0.75	1.20	2.00	65	0.5850
C7	1.35	1.20	0.60	70	1.1340
C7.1	1.20	0.32	0.60	95	0.3648
C8	1.80	0.75	0.60	85	1.1475
C9	15.10	9.30	0.80	60	84.2580
E1	6.20	3.00	1.20	35	6.5100
E2	6.20	2.90	1.20	60	10.7880
E3	1.70	0.80	1.30	80	1.0880
E5	3.80	2.80	1.50	85	9.0440
E7	3.90	1.90	0.90	50	3.7050
E8	3.60	1.20	0.90	85	3.6720
E8a	4.60	1.50	0.85	65	4.4850
E9.1	0.70	1.80	0.80	70	0.9310
E10	2.50	2.00	1.00	65	3.2500
E11	6.90	4.60	1.00	40	12.6960
E11a	1.60	0.30	0.75	85	0.4080
E11b	2.40	0.80	0.70	85	1.6320
E11.1	1.30	0.40	1.90	80	0.4160
E12.1	5.50	3.20	1.90	30	5.2800

Texas wild-rice
Plant Stand Attributes for 1992

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
E13	5.10	2.60	1.60	60	7.9560
F2	2.80	1.20	1.30	80	2.6880
F2.1	8.30	2.30	1.20	75	14.3175
F3	3.10	0.70	2.40	70	1.5190
F4	2.30	0.30	2.20	60	0.4140
F4.1	1.60	0.30	0.60	60	0.2880
F4.2	0.70	0.20	2.60	90	0.1260
F5	3.00	1.40	1.30	85	3.5700
F5.1	7.50	2.50	1.60	40	7.5000
F5.2	6.10	0.40	0.75	70	1.7080
F6	15.60	9.50	1.20	45	66.6900
F6a	2.50	0.30	1.10	80	0.6000
F6b	3.00	0.40	2.10	65	0.7800
F8	12.30	6.40	2.00	35	27.5520
F8b	2.70	0.50	0.90	30	0.4050
F8c	1.30	0.50	0.70	85	0.5525
F9.1	3.80	0.30	1.40	30	0.3420
F11	19.70	3.70	1.30	60	43.7340
F12	36.70	10.80	0.90	50	198.1800
F13	4.10	2.10	1.50	80	6.8880
F14	2.00	0.60	1.70	60	0.7200
F15	2.10	1.10	1.70	65	1.5015
G1	3.30	3.20	1.30	90	9.5040
G2	3.10	0.80	1.50	85	2.1080
G3	2.30	0.90	1.90	50	1.0350
H2	5.00	1.80	0.70	70	6.3000
H2a	2.10	0.85	0.70	80	1.4280
H3	3.50	1.40	0.65	30	1.4700
H4	2.20	0.10	0.45	85	0.1870
H4a	1.40	0.30	0.50	85	0.3570
I4	1.10	0.20	0.50	95	0.2090
J1	8.50	3.20	0.65	20	5.4400
J4	3.70	3.10	0.90	60	6.8820
J5	1.20	0.70	0.80	75	0.6300
J6	6.60	4.40	0.60	75	21.7800
J6a	1.10	0.30	0.55	85	0.2805
J8	2.30	3.10	0.80	10	0.7130
J9	2.60	3.10	0.70	30	2.4180
J11	10.50	8.70	0.80	50	45.6750
J12	4.30	2.20	0.95	60	5.6760
J13	5.10	3.40	0.90	65	11.2710
J14	2.70	0.70	0.80	80	1.5120
J15	2.80	1.20	0.80	85	2.8560
J16	2.50	1.30	1.10	90	2.9250
J17	3.70	2.30	1.10	15	1.2765
J18	1.95	0.70	1.30	70	0.9555
J20	4.50	2.60	1.15	15	1.7550

Texas wild-rice
Plant Stand Attributes for 1992

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
J21	1.20	0.30	0.90	90	0.3240
J22	2.40	0.50	0.90	90	1.0800
J26	3.30	1.20	1.40	85	3.3660
J28	1.80	0.40	1.10	80	0.5760
K1	1.80	2.80	1.80	70	3.5280
K2	7.70	2.90	1.30	50	11.1650
K3	3.10	2.70	1.20	70	5.8590
K4	6.70	3.90	1.80	60	15.6780
K4.1	1.60	0.35	0.50	60	0.3360
K6	2.10	0.80	0.80	70	1.1760
K6.1	2.80	0.90	0.80	85	2.1420
K7	3.40	2.40	0.80	15	1.2240
K8	1.60	0.40	1.10	70	0.4480
K9	2.40	0.70	0.80	80	1.3440
K10	3.20	2.10	0.80	15	1.0080
K10.1	2.10	0.30	1.30	80	0.5040
K11	2.30	2.30	1.30	50	2.6450
K11.1	1.70	1.70	0.90	35	1.0115
K14	1.50	0.40	1.40	50	0.3000
K15	6.50	4.00	1.00	35	9.1000
K17	6.40	2.00	1.00	40	5.1200
K20	2.30	0.80	0.90	75	1.3800
K23	2.70	0.30	1.20	70	0.5670
K26	1.30	0.20	1.00	70	0.1820
K26.1	1.60	0.40	1.00	85	0.5440
K29	2.30	1.50	1.10	85	2.9325
K29b	1.30	0.10	0.90	90	0.1170
K30	1.60	0.50	1.80	85	0.6800
K32	1.90	0.60	1.00	80	0.9120
K33	1.60	1.50	0.85	75	1.8000
K34	1.30	0.25	1.25	80	0.2600
K35	2.60	0.50	1.30	70	0.9100
K36.1	1.90	0.40	1.10	80	0.6080
K36.2	2.00	2.30	1.20	45	2.0700
K36.3	1.90	0.40	1.10	85	0.6460
K37	3.65	2.20	1.40	70	5.6210
K37a	2.80	2.00	1.30	50	2.8000
K38	2.70	1.10	1.65	60	1.7820
K39	1.50	1.40	1.50	30	0.6300
K40	2.50	0.80	1.50	80	1.6000
K41	12.40	4.50	1.40	30	16.7400
K41.1	4.00	1.90	1.00	65	4.9400
K41.2	1.50	1.30	1.70	80	1.5600
K42	6.20	2.80	1.30	50	8.6800
K43	2.25	0.60	0.80	80	1.0800
K44	1.50	0.40	1.70	80	0.4800
K45	1.40	0.40	1.50	80	0.4480
L1	2.20	0.20	0.90	75	0.3300

Texas wild-rice
Plant Stand Attributes for 1993

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
A1	10.40	2.40	0.71	75	18.7200
A2	2.95	3.00	0.55	75	6.6375
A3	7.00	5.90	0.15	30	12.3900
A4	1.08	0.38	0.91	70	0.2873
A5	1.25	0.56	0.61	90	0.6300
B1	8.10	2.50	0.37	65	13.1625
B1a	1.80	1.00	0.65	70	1.2600
B2	10.50	5.15	0.62	65	35.1488
B2.2	3.15	0.70	1.15	90	1.9845
B3	7.40	2.90	0.80	70	15.0220
B3.1	5.90	1.65	0.73	85	8.2748
B4	7.20	3.80	0.70	55	15.0480
B5	11.70	4.40	1.25	65	33.4620
B7	7.20	3.70	1.60	45	11.9880
B7a	2.60	0.60	1.34	95	1.4820
B8a	2.40	1.40	2.02	75	2.5200
B10	15.75	5.10	1.13	50	40.1625
B10a	1.70	0.66	1.18	95	1.0659
B10b	2.00	0.90	0.85	85	1.5300
B10c	2.90	1.10	1.29	90	2.8710
B10.1	1.60	1.60	0.82	75	1.9200
B10.2	2.50	1.10	1.50	25	0.6875
B10.3	1.80	1.10	0.73	70	1.3860
B10.4	4.00	2.00	1.00	35	2.8000
B10.5	2.20	1.70	0.75	85	3.1790
B10.6	3.90	1.57	0.82	55	3.3677
B11	5.55	2.20	0.92	85	10.3785
B11.1	5.00	4.20	0.91	55	11.5500
B11.3	1.60	0.70	1.21	75	0.8400
B11.4	2.00	1.40	1.45	60	1.6800
B15	1.50	1.10	1.30	75	1.2375
B15.1	3.00	1.00	1.28	70	2.1000
B15.2	3.20	1.30	1.05	70	2.9120
B15.3	1.90	0.40	1.19	90	0.6840
B15.4	2.20	0.95	1.20	95	1.9855
B15.5	2.00	0.65	2.90	95	1.2350
B15.6	0.98	0.35	0.93	90	0.3087
B15.7	1.40	0.55	0.60	95	0.7315
B15.8	2.38	1.28	3.28	90	2.7418
B15.9	2.00	0.86	2.60	80	1.3760
B15.10	2.50	1.10	1.53	80	2.2000
B16.3	3.65	1.50	0.65	60	3.2850
B16.4	2.70	1.00	0.65	70	1.8900
B16.5	2.00	0.95	0.75	80	1.5200
B16.6	3.40	1.00	0.65	75	2.5500
B16.7	2.70	0.75	0.85	85	1.7213
B16.8	6.20	1.85	1.00	85	9.7495
B16.9	2.45	0.65	0.66	70	1.1148
B16.10	3.90	1.20	0.75	55	2.5740
B17.5	2.15	0.75	0.85	75	1.2094
B18	1.30	0.65	0.60	70	0.5915

Texas wild-rice
Plant Stand Attrblutes for 1993

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
B19	2.40	0.45	0.75	80	0.8640
C1	4.10	1.47	0.90	70	4.2189
C2	18.10	6.10	1.10	50	55.2050
C3.1	2.10	0.95	1.50	90	1.7955
C5	43.50	9.50	0.70	70	289.2750
C5b	1.50	0.50	2.00	90	0.6750
C5.1	4.00	3.30	0.60	10	1.3200
C6	18.20	7.00	0.40	70	89.1800
C6b	2.30	0.95	0.35	90	1.9665
C6.1	2.40	0.70	0.50	80	1.3440
C7	1.40	0.60	0.50	90	0.7560
C7.1	2.10	1.20	0.40	80	2.0160
C8	1.25	1.20	0.50	70	1.0500
C9	15.90	9.60	0.70	55	83.9520
E1	6.50	3.30	0.95	35	7.5075
E2	5.05	3.80	0.95	20	3.8380
E3	4.10	2.20	1.26	85	7.6670
E5	2.00	1.00	1.70	85	1.7000
E6.1	0.80	0.45	0.75	90	0.3240
E6.2	2.20	0.50	0.65	95	1.0450
E6.3	3.30	1.05	0.70	80	2.7720
E6.4	4.90	1.55	0.70	60	4.5570
E6.5	1.80	0.55	0.45	85	0.8415
E6.6	1.80	0.35	0.55	90	0.5670
E7	3.10	1.90	0.70	70	4.1230
E8	3.20	3.23	0.75	80	8.2688
E9.1	3.20	2.20	1.30	75	5.2800
E11	5.20	2.75	1.70	55	7.8650
E12.1	5.20	1.65	1.75	40	3.4320
E13	2.00	2.60	1.75	60	3.1200
E14	8.20	2.30	1.10	75	14.1450
F2	3.88	1.23	0.95	75	3.5793
F2.1	2.50	0.50	1.60	85	1.0625
F3	2.85	0.75	1.90	75	1.6031
F4	1.90	0.40	2.00	50	0.3800
F4.1	1.30	0.20	0.45	60	0.1560
F4.2	1.60	0.35	0.65	30	0.1680
F4.3	1.75	0.50	0.80	60	0.5250
F4.4	2.50	0.75	1.50	50	0.9375
F5	3.00	1.00	0.95	50	1.5000
F5.1	1.63	0.55	1.20	40	0.3586
F5.2	1.20	0.70	1.30	65	0.5460
F6	19.30	8.70	0.95	40	67.1640
F7	2.20	3.20	1.60	40	2.8160
F8	11.70	9.90	1.65	40	46.3320
F9.1	3.40	0.30	1.20	60	0.6120
F11	10.80	1.90	1.15	80	16.4160
F12	37.90	10.40	1.10	70	275.9120
F13	3.30	2.60	1.30	55	4.7190

Texas wild-rice
Plant Stand Attributes for 1993

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
F14	2.31	0.58	1.46	90	1.2058
F15	2.95	1.95	1.31	60	3.4515
G1	3.20	1.73	1.75	80	4.4288
G2	2.75	0.75	1.33	85	1.7531
G3	4.20	3.94	1.20	85	14.0658
H1	0.55	0.19	0.85	85	0.0888
H2	7.70	2.68	0.70	5	1.0318
H2b	0.85	0.02	0.42	90	0.0153
H3	1.40	0.20	0.32	65	0.1820
I4	1.10	0.25	0.40	70	0.1925
I6	1.15	0.19	0.88	60	0.1311
J1	9.90	3.10	0.38	55	16.8795
J3	2.28	0.35	0.76	65	0.5187
J4	4.65	2.30	0.80	65	6.9518
J6	6.80	4.30	0.45	55	16.0820
J9	1.60	1.03	0.44	50	0.8240
J9a	0.52	0.40	0.59	70	0.1456
J11	9.05	9.50	0.60	35	30.0913
J12	1.40	0.28	0.79	80	0.3136
J13	5.50	3.10	0.66	40	6.8200
J14	3.30	0.68	0.61	60	1.3464
J15	2.00	0.70	0.56	40	0.5600
J16	2.70	1.25	0.80	65	2.1938
J18	1.50	1.65	0.81	25	0.6188
J18a	1.39	0.70	0.80	85	0.8271
J20	5.40	2.60	0.95	30	4.2120
J21	2.40	0.50	0.70	90	1.0800
J21a	3.30	0.70	0.70	90	2.0790
J26	3.60	2.05	1.15	45	3.3210
J27	2.70	0.70	1.04	90	1.7010
K1	3.50	3.40	1.65	75	8.9250
K2	5.00	1.90	1.25	80	7.6000
K2a	3.35	2.50	1.15	75	6.2813
K4	1.70	0.45	1.30	90	0.6885
K7	3.10	1.55	0.85	40	1.9220
K7.1	1.20	0.40	0.80	60	0.2880
K8	5.60	3.40	0.50	25	4.7600
K10	3.00	0.80	0.55	60	1.4400
K10.2	1.50	0.60	0.55	35	0.3150
K10.3	5.00	2.25	0.70	40	4.5000
K11	2.90	1.90	1.35	30	1.6530
K12	1.50	0.35	1.60	85	0.4463
K14	2.40	0.30	1.20	20	0.1440
K15	7.10	4.05	0.85	20	5.7510
K15a	6.30	0.30	0.85	20	0.3780
K16	1.40	0.55	0.90	80	0.6160
K17	4.00	2.10	0.90	20	1.6800

Texas wild-rice
Plant Stand Attributes for 1993

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
K18	2.40	0.80	0.90	75	1.4400
K19	1.95	2.00	1.05	95	3.7050
K20	1.45	1.10	1.05	40	0.6380
K29	2.20	0.50	0.95	90	0.9900
K29b	0.95	0.20	0.75	95	0.1805
K30	1.60	0.70	1.45	75	0.8400
K34	0.70	0.20	0.55	70	0.0980
K35	1.65	1.80	0.40	35	1.0395
K35a	1.20	0.30	1.05	80	0.2880
K35b	2.50	0.45	1.05	55	0.6188
K36.1	1.60	0.35	0.87	95	0.5320
K36.2	2.25	0.25	0.87	90	0.5063
K36.3	2.20	2.80	0.90	55	3.3880
K37	6.50	1.75	0.90	70	7.9625
K37a	1.03	0.20	0.65	90	0.1854
K38	3.47	2.10	0.95	55	4.0079
K39	2.30	1.60	1.23	90	3.3120
K40	1.65	0.90	1.20	85	1.2623
K41	13.00	6.30	0.78	43	34.8075
K41.1	4.00	1.90	0.75	70	5.3200
K42	6.90	2.90	0.78	60	12.0060
K43	1.78	0.75	0.75	90	1.2015
K44	2.95	1.40	1.08	85	3.5105
K45	1.90	0.61	1.30	85	0.9852
L1	2.90	0.20	0.90	90	0.5220

Texas wild-rice
Plant Stand Attributes for 1994

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
A0	1.45	0.46	0.15	100	0.6670
A1	10.30	2.60	0.50	85	22.7630
A2	1.00	0.25	0.60	95	0.2375
A3	5.50	3.98	0.10	40	8.7560
A3a	1.80	2.10	0.20	25	0.9450
A3b	2.35	0.60	0.25	75	1.0575
B1	1.90	0.50	0.69	80	0.7600
B1a	4.30	1.35	0.57	75	4.3538
B1b	1.80	1.00	0.60	85	1.5300
B1c	4.90	1.20	0.61	65	3.8220
B1d	2.30	0.70	0.70	80	1.2880
B1e	1.90	0.20	0.96	65	0.2470
B1f	3.25	0.35	0.70	70	0.7963
B2	12.60	7.70	0.60	65	63.0630
B3	10.40	3.70	0.45	45	17.3160
B3a	1.30	0.40	0.65	90	0.4680
B3b	2.40	0.50	0.61	70	0.8400
B3.1	6.80	2.40	0.36	65	10.6080
B3.2	1.30	0.18	0.55	80	0.1872
B3.3	1.80	0.50	0.55	80	0.7200
B3.4	3.30	1.45	0.64	85	4.0873
B3.5	2.30	0.40	0.61	90	0.8280
B3.6	1.60	0.50	0.65	65	0.5200
B4	10.00	4.90	0.22	65	31.8500
B5	13.20	5.00	0.80	60	39.6000
B7	8.60	3.80	1.24	40	13.0720
B7a	3.40	1.00	1.10	80	2.7200
B7.1	1.55	0.95	0.50	80	1.1780
B8a	3.10	1.20	1.10	85	3.1620
B10	16.25	6.40	0.95	50	52.0000
B10c	2.90	1.50	1.10	85	3.6975
B10.1	2.35	1.40	0.50	75	2.4675
B10.2	3.70	1.80	1.20	60	3.9960
B10.3	2.50	1.10	0.40	60	1.6500
B10.4	4.90	1.70	0.85	75	6.2475
B10.6	4.55	1.50	0.55	65	4.4363
B11	6.80	2.95	0.65	70	14.0420
B11.1	6.30	4.40	0.80	85	23.5520
B11.2	1.30	0.75	1.20	80	0.7800
B11.3	1.70	1.00	1.20	70	1.1900
B11.5	4.20	1.00	0.95	60	2.5200
B11.6	1.80	0.80	1.18	90	1.2960
B11.7	4.90	1.50	1.08	70	5.1450
B11.8	5.00	1.90	1.08	35	3.3250
B11.9	1.50	1.10	1.12	50	0.8250
B11.10	1.10	0.50	1.20	75	0.4125
B11.11	1.95	1.00	0.98	60	1.1700
B11.12	1.10	0.70	1.22	80	0.6160
B11.13	3.20	1.50	1.26	45	2.1600
B11.14	1.20	0.65	1.18	60	0.4680
B14	3.00	1.10	1.08	45	1.4850

Texas wild-rice
Plant Stand Attributes for 1994

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
B15	1.80	1.10	1.10	75	1.4850
B15.1	3.20	3.10	1.05	35	3.4720
B15.2	4.20	1.30	0.80	75	4.0950
B15.3	2.20	0.40	1.00	80	0.7040
B15.4	2.50	1.10	0.83	80	2.2000
B15.7	1.25	0.40	0.40	90	0.4500
B15.9	1.70	1.30	2.25	80	1.7680
B15.10	2.34	1.00	1.40	65	1.5210
B15.11	1.00	0.40	1.20	40	0.1600
B15.12	1.50	0.60	1.16	50	0.4500
B15.13	2.60	0.80	1.08	55	1.1440
B15.14	1.90	0.05	0.95	60	0.0570
B15.15	0.86	0.40	1.15	65	0.2236
B15.16	1.40	0.55	1.54	45	0.3465
B15.17	1.70	0.70	1.20	75	0.8925
B15.18	1.20	0.70	1.05	80	0.6720
B15.19	1.70	0.60	0.95	45	0.4590
B15.20	2.10	0.70	1.19	80	1.1760
B15.21	2.40	0.70	1.18	75	1.2600
B15.22	1.80	0.50	0.55	55	0.4950
B15.23	2.10	0.75	0.85	75	1.1813
B16.7	2.60	0.65	0.61	85	1.4365
B16.8	7.10	2.10	0.80	75	11.1825
B16.9	2.50	0.60	0.60	75	1.1250
B16.10	2.90	0.90	0.80	45	1.1745
B16.11	2.00	0.90	0.65	80	1.4400
B17.5	2.80	0.90	0.65	75	1.8900
B17.6	3.30	1.60	0.50	65	3.4320
B17.7	3.00	0.80	0.35	85	2.0400
B17.8	2.20	0.70	0.46	80	1.2320
B17.9	4.20	1.10	0.53	75	3.4650
B17.10	1.50	0.60	0.65	55	0.4950
B18	2.10	0.71	0.60	80	1.1928
B18.1	1.20	0.60	0.60	65	0.4680
B19	1.05	0.06	0.80	45	0.0260
C1	4.10	2.20	0.85	85	7.6670
C2	18.50	6.80	1.00	60	75.4800
C3.1	2.40	1.00	1.70	85	2.0400
C5	33.60	10.10	0.60	45	152.7120
C5b	9.80	3.10	1.05	70	21.2660
C5.1	4.50	3.95	0.60	75	13.3313
C5.4	4.30	1.30	1.20	80	4.4720
C5.5	2.10	0.85	1.70	85	1.5173
C6	19.20	7.30	0.33	55	77.0880
C6b	1.70	0.70	0.30	40	0.4760
C7	2.70	1.40	0.50	75	2.8350
C7.1	1.20	0.80	0.45	80	0.7680
C8	0.70	1.10	0.50	40	0.3080
C9	16.05	10.30	0.70	50	82.6575
E1	7.40	1.80	0.80	50	6.6600

Texas wild-rice
Plant Stand Attributes for 1994

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
E1a	1.80	0.80	1.00	75	1.0800
E1b	3.10	1.30	0.90	70	2.8210
E2	5.70	4.00	0.80	35	7.9800
E3	3.20	3.20	0.95	60	6.1440
E5	2.00	1.00	1.15	80	1.6000
E6.2	1.80	0.90	0.50	80	1.2960
E6.3	4.90	0.70	0.45	50	1.7150
E6.6	1.55	0.60	0.30	70	0.6510
E7	2.10	2.10	0.40	70	3.0870
E7.1	1.80	0.50	0.30	65	0.5850
E7.2	0.60	0.40	0.60	80	0.1920
E8	3.60	2.35	0.50	75	6.3450
E8a	2.10	0.80	0.80	80	1.3440
E9	2.30	2.10	1.10	55	2.6565
E9.1	2.00	0.85	1.20	45	0.7650
E10.1	0.40	0.25	1.52	90	0.0900
E11	2.80	2.20	1.35	50	3.0800
E11c	2.00	0.65	1.40	60	0.7800
E11d	2.10	0.95	1.43	75	1.4963
E13	2.10	2.10	1.45	30	1.3230
E14	9.30	2.00	0.90	60	11.1600
F2	3.10	1.60	0.90	60	2.9760
F2a	1.90	0.45	1.50	80	0.6840
F3	2.75	0.60	1.70	60	0.9900
F4	1.75	0.50	1.65	60	0.5250
F4.4	2.00	1.60	1.35	80	2.5600
F4.4a	1.30	0.05	1.35	90	0.0585
F4.5	0.85	0.85	0.85	90	0.6503
F5	2.10	1.45	0.90	75	2.2838
F5.1	2.60	0.95	1.05	70	1.7290
F6	15.60	8.90	1.00	25	34.7100
F7	3.40	3.10	1.40	80	8.4320
F8	11.10	5.30	1.50	35	20.5905
F8d	1.50	0.60	0.45	70	0.6300
F9.1	2.80	0.40	0.95	80	0.8960
F11	9.15	3.80	0.95	75	26.0775
F12	38.00	10.30	1.10	40	156.5600
F13	4.80	2.30	1.30	70	7.7280
F14	1.65	0.80	1.20	60	0.7920
F15	2.70	1.20	1.25	50	1.6200
G1	3.70	1.70	1.65	40	2.5160
G2	2.40	0.70	1.20	80	1.3440
G3	3.70	4.15	1.00	85	13.0518
G4	2.60	0.70	1.60	40	0.7280
H0a	0.50	0.05	0.15	95	0.0238
H2	5.30	0.95	0.50	70	3.5245
H2a	1.40	0.70	0.40	15	0.1470
H2b	1.20	0.05	0.35	60	0.0360

Texas wild-rice
Plant Stand Attributes for 1994

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
I4	1.60	0.30	0.30	35	0.1680
J1	9.40	3.36	0.35	30	9.4752
J3	1.10	0.05	0.49	100	0.0550
J4	4.86	3.30	0.80	80	12.8304
J6	8.50	5.00	0.40	50	21.2500
J9	2.70	2.60	0.25	10	0.7020
J9a	3.00	1.80	0.30	10	0.5400
J11	5.00	8.05	0.15	40	16.1000
J12	1.00	0.40	0.70	60	0.2400
J13	5.50	2.80	0.45	35	5.3900
J14	0.20	0.05	0.35	100	0.0100
J16	2.05	0.70	0.65	60	0.8610
J17	0.90	0.90	0.95	30	0.2430
J18	0.78	1.50	0.85	10	0.1170
J18a	0.73	0.45	0.70	10	0.0329
J20	5.40	2.20	0.75	25	2.9700
J21	1.20	0.55	0.50	60	0.3960
J21a	2.30	0.60	0.55	60	0.8280
J26	3.50	2.00	0.95	50	3.5000
J27	1.80	0.95	0.85	40	0.6840
K1	2.35	2.70	1.55	65	4.1243
K2	5.55	2.15	1.05	35	4.1764
K2a	2.55	3.35	0.90	75	6.4069
K4	1.20	0.45	1.25	65	0.3510
K6.2	1.95	1.25	1.15	70	1.7063
K7	3.65	1.80	0.75	80	5.2560
K8	0.55	0.55	0.40	10	0.0303
K9	0.45	0.05	0.45	50	0.0113
K9.1	1.50	0.50	0.30	80	0.6000
K9.2	3.05	1.80	0.60	60	3.2940
K10	2.10	0.90	0.40	80	1.5120
K10.1	0.80	0.50	0.70	30	0.1200
K10.2	0.75	0.55	0.45	35	0.1444
K10.3	1.05	0.40	0.55	35	0.1470
K10.3a	0.75	0.35	0.70	65	0.1706
K10.3b	2.05	0.75	0.75	65	0.9994
K11.2	1.10	0.50	0.70	20	0.1100
K12	1.80	0.30	1.05	45	0.2430
K15	5.45	6.60	0.65	25	8.9925
K17	0.95	0.25	0.70	45	0.1069
K18	1.80	0.65	0.70	70	0.8190
K19	2.10	0.55	0.80	75	0.8663
K20	1.55	0.40	0.95	25	0.1550
K29	1.65	0.35	0.80	70	0.4043
K29b	1.15	0.40	0.50	70	0.3220
K30	1.40	0.80	1.30	80	0.8960
K34	1.50	0.50	0.50	80	0.6000
K35	3.00	1.40	0.25	55	2.3100
K35a	0.45	0.05	0.75	15	0.0034
K36.1	2.20	0.45	0.60	80	0.7920

Texas wild-rice
Plant Stand Attributes for 1994

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
K36.2	1.85	0.50	0.70	70	0.6475
K36.3	2.80	2.80	0.75	35	2.7440
K37	7.50	2.15	0.75	55	8.8688
K38	2.30	2.40	0.75	60	3.3120
K39	1.95	1.70	1.10	60	1.9890
K40	2.90	1.00	1.05	70	2.0300
K41	13.35	4.60	0.90	65	39.9165
K41.1	5.70	3.10	0.65	50	8.8350
K41.2	3.20	1.10	1.05	60	2.1120
K42	7.45	3.30	0.70	45	11.0633
K43	2.60	0.50	0.60	40	0.5200
K44	2.90	1.10	0.65	30	0.9570
K45	2.30	0.60	1.20	60	0.8280
K47.2	1.80	0.05	2.00	10	0.0090
L0	2.20	0.75	1.35	80	1.3200
L1	1.40	0.20	0.80	70	0.1960

Texas wild-rice
Plant Stand Attributes for 1995

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
A0	2.05	0.64	0.25	40	0.5248
A1	11.47	2.53	0.78	70	20.3134
A2	1.92	0.26	0.71	40	0.1997
A2a	0.95	0.23	0.56	40	0.0874
A3	6.35	2.59	0.36	60	9.8679
A3a	2.83	0.94	0.39	30	0.7981
A3b	2.90	1.50	0.35	50	2.1750
A3.1	2.67	0.70	0.59	60	1.1214
A6	2.55	0.60	0.72	55	0.8415
B1a	4.60	1.65	0.80	75	5.6925
B1c	3.06	1.62	0.89	40	1.9829
B1d	4.45	1.40	0.84	50	3.1150
B1f	2.80	0.80	0.92	80	1.7920
B1g	0.50	0.20	0.86	60	0.0600
B1h	2.72	0.73	0.84	60	1.1914
B1i	1.95	0.82	0.73	75	1.1993
B1j	0.60	0.29	0.80	60	0.1044
B2	13.90	7.80	0.85	70	75.8940
B2a	1.90	0.30	1.15	35	0.1995
B2b	2.15	0.90	0.71	80	1.5480
B2.3	0.84	0.47	0.85	50	0.1974
B3	1.36	0.53	0.85	70	0.5046
B3b	3.79	1.00	0.99	80	3.0320
B3c	0.90	0.33	1.00	60	0.1782
B3d	0.70	0.25	0.75	50	0.0875
B3e	0.50	0.25	0.65	20	0.0250
B3f	0.63	0.25	0.90	65	0.1024
B3g	0.90	0.35	0.78	50	0.1575
B3h	1.39	0.65	0.96	50	0.4518
B3i	0.80	0.34	1.08	60	0.1632
B3j	1.08	0.32	1.00	40	0.1382
B3.1	2.31	1.15	0.97	60	1.5939
B3.1a	0.63	0.20	1.04	60	0.0756
B3.1b	2.00	0.60	1.10	80	0.9600
B3.1c	1.29	0.70	1.15	50	0.4515
B3.1d	3.50	1.50	1.10	80	4.2000
B3.3	1.70	1.00	1.05	60	1.0200
B3.4	4.90	1.90	0.90	75	6.9825
B3.5	2.55	0.65	0.83	60	0.9945
B3.6	2.75	0.72	0.77	60	1.1880
B4	10.55	7.20	1.15	75	56.9700
B4a	0.97	0.80	0.51	70	0.5432
B5	13.90	6.22	1.00	50	43.2290
B7	9.50	4.10	1.38	60	23.3700
B7a	2.80	0.89	1.35	80	1.9936
B7.1	2.90	1.30	0.80	75	2.8275
B8a	2.90	1.75	1.32	70	3.5525
B10	16.60	6.80	1.15	60	67.7280
B10c	3.85	1.90	1.40	80	5.8520
B10.1	2.60	1.35	0.60	70	2.4570
B10.2	4.20	1.80	1.50	70	5.2920
B10.3	3.10	1.55	0.65	75	3.6038

Texas wild-rice
Plant Stand Attributes for 1995

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
B10.4	5.30	2.00	0.95	75	7.9500
B10.6	6.00	2.80	0.85	50	8.4000
B10.7	1.85	0.60	0.90	80	0.8880
B11	7.20	4.35	1.10	80	25.0560
B11.2	2.50	2.00	1.25	70	3.5000
B11.5	8.50	1.30	1.20	80	8.8400
B11.6	2.10	1.50	1.23	35	1.1025
B11.7	1.20	1.00	1.20	70	0.8400
B11.8	2.60	0.85	1.00	65	1.4365
B11.8a	2.50	1.23	1.50	70	2.1525
B11.9	2.10	1.30	1.30	65	1.7745
B11.12	1.62	0.85	1.25	85	1.1705
B11.14	2.38	0.80	1.60	90	1.7136
B11.15	2.00	0.80	1.72	60	0.9600
B11.16	2.60	1.05	1.38	80	2.1840
B11.17	2.45	0.85	1.16	95	1.9784
B11.18	1.80	0.85	1.55	90	1.3770
B11.19	3.10	1.60	1.30	70	3.4720
B11.20	2.20	0.80	1.25	50	0.8800
B14	2.90	1.40	1.35	60	2.4360
B15	2.65	1.30	1.05	90	3.1005
B15.1	4.25	1.40	1.20	80	4.7600
B15.2	4.65	0.90	1.02	75	3.1388
B15.3	1.85	1.00	1.15	65	1.2025
B15.4	3.45	1.10	0.96	85	3.2258
B15.7	1.20	0.90	0.70	90	0.9720
B15.8	2.32	1.10	2.70	80	2.0416
B15.10	4.10	1.60	1.50	70	4.5920
B15.11	2.35	1.60	1.30	65	2.4440
B15.12	2.10	1.00	1.50	90	1.8900
B15.13	4.20	2.40	1.40	75	7.5600
B15.14	2.15	0.85	1.10	65	1.1879
B15.15	2.30	1.00	1.34	80	1.8400
B15.16	2.20	0.70	1.60	70	1.0780
B15.18	4.50	2.70	1.35	65	7.8975
B15.20	2.50	0.75	1.40	70	1.3125
B15.21	3.50	0.95	1.50	70	2.3275
B15.22	2.90	1.20	0.80	70	2.4360
B15.23	3.00	1.10	0.90	80	2.6400
B15.24	1.90	0.90	1.30	50	0.8550
B15.25	3.00	1.20	1.55	80	2.8800
B15.26	1.20	0.50	2.15	65	0.3900
B15.27	2.20	0.60	0.70	80	1.0560
B16.7	4.50	0.90	0.90	85	3.4425
B16.8	8.30	2.70	1.00	75	16.8075
B16.9	1.50	0.20	0.80	40	0.1200
B16.10	2.40	0.50	0.90	60	0.7200
B16.12	2.60	0.80	0.95	80	1.6640
B16.13	1.30	0.30	0.95	50	0.1950
B16.14	1.20	0.15	0.77	40	0.0720
B16.15	2.70	0.60	0.90	90	1.4580
B17.6	3.60	1.70	0.75	75	4.5900
B17.7	3.90	1.30	0.60	80	4.0560

Texas wild-rice
Plant Stand Attributes for 1995

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
B17.8	3.00	1.00	0.85	85	2.5500
B17.9	5.00	1.40	0.70	75	5.2500
B17.11	2.90	0.90	0.80	75	1.9575
B18	3.90	0.80	0.90	75	2.3400
B18.1	2.60	0.70	0.80	80	1.4560
B19	2.60	1.10	1.00	60	1.7160
C1	4.30	2.00	0.90	70	6.0200
C2	14.77	6.90	1.13	60	61.1478
C2a	3.22	1.94	1.60	75	4.6851
C3.1	2.85	1.10	1.65	75	2.3513
C5	44.40	10.80	0.65	50	239.7600
C5.1	4.61	4.35	0.65	75	15.0401
C6.5	1.90	0.55	1.70	35	0.3658
C6	16.10	6.57	0.40	75	79.3328
C6c	3.35	1.00	0.85	75	2.5125
C6d	2.30	0.55	0.50	90	1.1385
C6.1	1.00	2.30	0.55	60	1.3800
C7	3.35	1.70	0.63	80	4.5560
C7.1	2.50	0.95	0.55	90	2.1375
C8	2.00	0.85	0.60	75	1.2750
C9	15.00	9.50	0.70	65	92.6250
E1	1.70	1.90	0.90	80	2.5840
E1a	1.10	0.95	1.05	75	0.7838
E1b	2.35	1.45	1.05	65	2.2149
E1c	4.50	2.00	0.85	85	7.6500
E2	3.40	2.50	0.80	75	6.3750
E2a	2.20	0.70	0.85	75	1.1550
E2b	1.80	0.40	0.90	70	0.5040
E2c	1.65	0.85	1.00	50	0.7013
E2d	2.65	0.95	1.10	85	2.1399
E3	3.60	3.50	1.10	75	9.4500
E5	1.30	0.80	1.25	70	0.7280
E6.3	5.60	2.10	0.60	50	5.8800
E6.6	2.25	0.90	0.50	75	1.5188
E6.7	1.20	0.60	1.10	85	0.6120
E7	2.20	1.25	0.70	55	1.5125
E7.1	2.30	0.50	0.85	80	0.9200
E7.2	0.90	0.30	0.75	90	0.2430
E7.3	1.90	0.35	0.40	75	0.4988
E8	2.40	1.10	0.70	90	2.3760
E8a	1.70	1.00	1.00	75	1.2750
E8b	2.20	0.35	0.75	90	0.6930
E8c	1.90	1.00	1.05	70	1.3300
E8d	0.60	0.30	0.95	90	0.1620
E8e	0.55	0.40	1.10	90	0.1980
E9	3.85	2.00	1.30	75	5.7750
E9.1	1.80	1.35	1.40	75	1.8225
E10.1	1.05	0.31	1.60	75	0.2441
E11	3.50	2.35	1.45	50	4.1125
E11c	2.50	0.85	1.70	85	1.8063
E11d	2.70	0.90	1.60	60	1.4580

Texas wild-rice
Plant Stand Attributes for 1995

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
E14	8.90	2.95	1.15	55	14.4403
F2	3.40	1.30	1.00	80	3.5360
F2.2	1.80	0.45	1.70	40	0.3240
F3	2.10	1.20	1.75	70	1.7640
F4	2.25	0.35	1.80	60	0.4725
F4.4	2.80	0.95	1.55	80	2.1280
F5	2.60	1.10	0.80	85	2.4310
F5.1	2.90	0.85	1.35	75	1.8488
F6	16.60	9.30	1.10	50	77.1900
F7	6.70	3.60	1.45	65	15.6780
F8	12.35	5.70	2.00	25	17.5988
F8d	1.45	0.70	0.75	45	0.4568
F9.1	4.15	0.80	0.95	80	2.6560
F11	10.60	4.30	1.10	80	36.4640
F12	38.70	7.50	1.05	35	101.5875
F13	4.75	2.10	1.35	80	7.9800
F14	2.05	0.70	1.30	75	1.0763
F15	2.20	2.00	1.45	70	3.0800
G1	2.65	2.15	1.95	65	3.7034
G2	3.10	0.90	1.40	75	2.0925
G3	2.90	3.85	1.20	55	6.1408
G4	4.80	0.90	2.10	65	2.8080
H2	4.90	1.45	0.70	65	4.6183
H2a	1.85	0.55	0.60	40	0.4070
I4	1.70	0.25	0.40	25	0.1063
J1	4.20	2.20	0.70	55	5.0820
J1a	1.10	0.35	0.80	60	0.2310
J4	3.90	2.00	1.05	60	3.9000
J4a	1.00	0.45	0.95	80	0.3600
J4b	1.00	0.20	0.32	75	0.1500
J6	8.20	3.30	0.34	50	13.5300
J6b	1.60	0.45	0.45	60	0.4320
J8	1.75	1.30	0.54	25	0.5688
J8a	1.20	0.45	0.50	85	0.4590
J10	2.10	0.30	0.70	90	0.5670
J11	2.20	1.80	0.60	60	2.3760
J11a	0.80	0.01	0.45	100	0.0080
J11b	0.70	0.01	0.45	100	0.0070
J11c	0.40	0.20	0.55	50	0.0400
J13	4.00	1.15	0.60	50	2.3000
J13a	2.00	0.47	0.75	50	0.4700
J14	1.70	0.20	0.42	30	0.1020
J15	0.80	0.15	0.43	60	0.0720
J16	2.70	0.20	0.95	80	0.4320
J17	2.80	0.40	1.15	80	0.8960
J18	3.20	0.35	0.99	60	0.6720
J19	3.40	0.28	1.12	25	0.2380
J20	5.70	1.45	1.20	30	2.4795

Texas wild-rice
Plant Stand Attributes for 1995

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
J20a	1.60	0.15	0.85	70	0.1680
J21	3.00	0.50	0.80	80	1.2000
J21a	3.30	0.65	0.80	60	1.2870
J26	3.50	2.40	1.20	65	5.4600
J27	3.00	1.55	1.07	70	3.2550
K1	3.60	2.66	1.56	76	7.1820
K2	5.80	2.50	1.25	65	9.4250
K2a	4.95	3.95	1.20	70	13.6868
K4	1.30	0.90	1.45	75	0.8775
K6.2	2.65	1.30	1.40	85	2.9283
K7	2.85	1.75	1.00	60	2.9925
K8	1.60	0.45	0.60	90	0.6480
K9	0.80	0.40	0.65	90	0.2880
K9.1	1.80	0.30	0.55	90	0.4860
K9.2	3.30	2.05	0.80	45	3.0443
K10	1.79	1.00	0.60	70	1.2530
K10.1	2.60	0.60	0.90	70	1.0920
K10.2	0.95	0.30	0.60	90	0.2565
K10.3	1.30	0.40	0.82	90	0.4680
K10.3a	1.40	0.60	0.98	60	0.5040
K11.2	1.00	0.45	1.25	65	0.2925
K14	2.20	0.40	1.20	75	0.6600
K15	7.20	6.55	0.80	35	16.5060
K16	1.20	0.35	0.80	75	0.3150
K17	0.90	0.05	0.80	100	0.0450
K17a	1.70	0.80	0.85	90	1.2240
K17b	0.40	0.10	0.80	80	0.0320
K18	1.25	0.70	1.15	85	0.7438
K18.1	1.70	0.50	1.10	70	0.5950
K19	1.60	0.55	1.15	80	0.7040
K20	1.85	0.40	1.10	90	0.6660
K29	1.40	0.30	1.10	75	0.3150
K30	1.40	0.45	1.50	70	0.4410
K34	1.40	0.30	0.70	75	0.3150
K35	3.10	1.05	0.40	80	2.6040
K36.1	1.90	0.55	1.05	80	0.8360
K36.2	2.00	0.60	0.95	90	1.0800
K36.3	2.30	2.30	1.05	40	2.1160
K37	1.20	0.50	1.00	40	0.2400
K37b	2.60	0.80	1.10	40	0.8320
K37c	4.80	2.30	1.10	40	4.4160
K38	3.80	2.00	1.10	50	3.8000
K41	13.90	4.10	0.90	40	22.7960
K41a	2.90	0.60	0.75	80	1.3920
K41.1	5.70	1.70	1.05	80	7.7520
K41.2	2.20	1.50	1.40	85	2.8050
K42	4.55	0.75	1.00	70	2.3888
K42a	1.80	0.95	1.00	80	1.3680
K42b	2.65	0.75	1.00	70	1.3913
K42c	2.60	0.70	1.05	70	1.2740

Texas wild-rice
Plant Stand Attributes for 1995

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
K43	2.30	1.00	1.00	80	1.8400
K44	4.00	0.75	0.95	65	1.9500
K45	2.85	0.80	1.40	90	2.0520
K48	2.30	0.25	1.25	60	0.3450
L1	2.30	0.30	1.15	75	0.5175

Texas wild-rice
Plant Stand Attributes for 1996

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
A0	0.90	0.60	0.15	75	0.4050
A0.1	1.50	0.45	0.30	50	0.3375
A1	11.50	2.70	0.46	80	24.8400
A2	3.70	0.85	0.26	50	1.5725
A3	5.70	3.03	0.02	20	3.4542
A3a	3.50	1.40	0.03	20	0.9800
A3.2	0.50	0.20	0.34	40	0.0400
A7	1.50	0.25	0.35	20	0.0750
B1a	2.50	2.20	0.45	60	3.3000
B1c	2.90	1.30	0.50	80	3.0160
B1d	4.50	1.40	0.60	60	3.7800
B1f	1.45	0.70	0.79	70	0.7105
B1fa	3.55	0.78	0.55	80	2.2152
B1h	3.50	1.18	0.52	80	3.3040
B2	14.40	8.05	0.46	75	86.9400
B2a	2.00	0.86	0.81	90	1.5480
B2b	2.70	1.38	0.55	70	2.6082
B3b	6.45	2.26	0.84	60	7.3902
B3.1	3.40	1.30	0.71	75	3.3150
B3.1b	2.70	0.70	0.64	80	1.5120
B3.1d	1.91	0.60	0.71	80	0.9168
B3.4	5.85	2.50	0.45	60	8.7750
B3.4a	2.11	0.88	0.68	90	1.6711
B3.5	5.57	0.58	0.48	85	2.7460
B4	9.35	5.56	0.31	55	28.5923
B5	13.60	4.28	0.65	80	46.5664
B7	10.15	3.99	0.79	60	24.2991
B7a	5.60	1.20	1.05	55	3.6960
B7.1	3.10	0.25	0.37	40	0.3100
B8a	3.45	1.58	0.90	60	3.2706
B10	12.40	6.80	0.92	65	54.8080
B10a	4.30	2.35	1.05	65	6.5683
B10c	4.25	2.20	0.94	85	7.9475
B10d	6.50	1.90	0.72	40	4.9400
B10e	2.75	1.80	0.65	60	2.9700
B10.2	4.10	2.70	0.92	80	8.8560
B10.3	2.83	1.20	0.30	60	2.0376
B10.4	5.30	2.50	0.68	85	11.2625
B10.6	5.85	3.20	0.47	65	12.1680
B10.8	1.93	0.69	0.57	75	0.9988
B10.9	2.98	1.37	0.45	55	2.2454
B11	7.50	5.20	0.65	60	23.4000
B11.5	2.40	0.47	0.99	75	0.8460
B11.6	2.83	0.87	0.81	80	1.9697
B11.7	8.69	1.83	0.92	65	10.3368
B11.9	4.23	2.25	1.00	60	5.7105
B11.15	1.25	0.70	1.08	50	0.4375
B11.17	2.10	1.39	1.30	75	2.1893
B11.19	12.62	4.10	0.98	50	25.8710
B11.21	1.00	0.40	0.80	80	0.3200
B11.22	0.60	0.50	0.90	50	0.1500

Texas wild-rice
Plant Stand Attributes for 1996

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
B11.23	1.80	1.20	1.05	10	0.2160
B11.24	3.72	1.50	0.80	60	3.3480
B11.25	1.00	0.65	1.23	25	0.1625
B11.26	5.28	1.30	0.74	60	4.1184
B11.27	2.87	0.92	0.75	80	2.1123
B11.28	1.70	1.05	0.94	50	0.8925
B14	3.75	1.45	0.93	65	3.5344
B15	3.60	1.60	1.00	75	4.3200
B15.1	4.82	2.90	0.94	60	8.3868
B15.2	4.20	1.25	0.72	75	3.9375
B15.3	2.25	1.20	0.89	65	1.7550
B15.4	4.28	1.22	0.55	60	3.1330
B15.4a	0.65	0.65	0.65	40	0.1690
B15.7	4.90	0.80	0.43	60	2.3520
B15.8	0.90	0.60	2.17	10	0.0540
B15.10	3.45	1.80	1.35	60	3.7260
B15.12	2.60	1.10	1.18	70	2.0020
B15.14	3.46	1.70	0.75	65	3.8233
B15.15	2.20	1.50	0.94	65	2.1450
B15.16	2.50	0.90	1.30	60	1.3500
B15.18	4.85	3.25	0.85	55	8.6694
B15.20	3.15	1.20	1.10	65	2.4570
B15.21	3.85	1.10	1.07	75	3.1763
B15.23	2.50	1.65	0.60	65	2.6813
B15.25	1.90	0.80	1.20	30	0.4560
B15.27	0.47	0.35	0.40	40	0.0658
B15.28	2.05	0.60	1.07	15	0.1845
B15.29	1.80	0.95	1.50	75	1.2825
B15.30	1.55	0.85	1.20	60	0.7905
B15.31	2.85	1.00	0.87	85	2.4225
B15.32	2.30	1.25	0.71	80	2.3000
B15.33	2.10	0.75	0.96	70	1.1025
B15.34	0.65	0.50	0.94	50	0.1625
B16.7	4.27	1.20	0.74	75	3.8430
B16.8	8.36	2.85	0.68	85	20.2521
B16.9	2.40	0.80	0.48	70	1.3440
B16.12	2.30	0.96	0.60	75	1.6560
B16.15	2.65	0.80	0.65	75	1.5900
B16.16	3.00	0.77	0.36	60	1.3860
B16.17	4.05	0.85	0.37	55	1.8934
B16.18	2.60	0.66	0.49	80	1.3728
B17.7	2.00	1.20	0.42	60	1.4400
B17.8	2.50	1.20	0.65	80	2.4000
B17.9	2.72	0.95	0.49	55	1.4212
B17.10	1.90	0.78	0.60	80	1.1856
B17.11	0.95	0.75	0.58	70	0.4988
B17.12	0.70	0.20	0.50	15	0.0210
B17.13	2.25	1.70	0.44	75	2.8688
B17.14	1.84	0.80	0.60	65	0.9568
B18	3.41	0.90	0.61	70	2.1483
B19	1.75	1.10	0.72	70	1.3475
B20	2.00	1.10	1.20	80	1.7600

Texas wild-rice
Plant Stand Attributes for 1996

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
B21	2.75	0.85	1.35	80	1.8700
C1	4.70	2.20	0.85	65	6.7210
C2	19.10	6.80	0.85	60	77.9280
C2a	3.30	1.75	1.30	70	4.0425
C3.1	2.60	0.80	1.50	85	1.7680
C5	45.00	10.60	0.50	50	238.5000
C5b	4.80	2.15	1.05	70	7.2240
C5.1	4.30	4.60	0.40	30	5.9340
C5.5	1.30	0.20	1.45	80	0.2080
C6	19.50	7.20	0.24	50	70.2000
C6b	1.20	0.40	0.28	65	0.3120
C6.1	2.00	2.80	0.40	50	2.8000
C7	2.35	1.40	0.30	55	1.8095
C7.1	1.50	1.00	0.35	70	1.0500
C9	14.70	9.40	0.55	30	41.4540
E1	6.30	3.60	0.60	60	13.6080
E1a	1.70	0.80	0.90	90	1.0880
E1b	2.50	1.55	0.75	80	3.1000
E2	6.80	4.40	0.60	45	13.4640
E3	4.20	4.00	1.10	80	13.4400
E5	1.20	0.90	1.00	75	0.8100
E6	1.90	0.45	0.95	70	0.5985
E6.3	2.45	1.30	0.25	25	0.7963
E6.6	1.90	0.40	0.23	40	0.3040
E6.8	0.45	0.20	0.35	80	0.0720
E7	1.50	0.20	0.50	80	0.2400
E7.1	2.20	0.83	0.64	85	1.5521
E7.2	1.30	0.34	0.65	80	0.3536
E8	2.55	0.90	0.60	65	1.4918
E8a	1.65	0.30	0.60	40	0.1980
E8b	2.76	0.65	0.46	50	0.8970
E8c	1.60	1.25	0.70	60	1.2000
E8d	2.40	0.78	0.70	75	1.4040
E8.1	1.91	0.70	0.72	70	0.9359
E9	3.20	2.20	1.00	50	3.5200
E9.1	1.50	1.00	1.15	45	0.6750
E11	3.20	1.50	1.25	40	1.9200
E11c	1.40	0.80	1.35	50	0.5600
E11d	1.50	0.35	1.30	30	0.1575
E11e	1.60	1.10	1.25	40	0.7040
E14	8.70	2.80	0.90	40	9.7440
F2	3.21	1.90	0.77	65	3.9644
F3	2.10	1.40	1.70	70	2.0580
F4	2.40	0.80	1.55	80	1.5360
F4.4	2.30	1.00	1.50	70	1.6100
F5	2.66	1.30	0.73	70	2.4206
F5.1	3.20	1.15	1.05	80	2.9440
F6	16.00	9.53	0.85	40	60.9920
F7	3.60	3.40	1.38	60	7.3440

Texas wild-rice
Plant Stand Attributes for 1996

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
F8	9.20	6.30	1.45	40	23.1840
F8d	0.92	0.85	0.80	70	0.5474
F11	9.90	4.10	0.94	70	28.4130
F12	38.90	11.10	0.80	30	129.5370
F13	5.25	2.50	1.20	70	9.1875
F14	1.80	0.50	1.10	35	0.3150
F15	2.00	1.60	1.30	60	1.9200
G1	2.60	0.80	1.67	65	1.3520
G2	3.10	0.95	1.00	60	1.7670
G3	3.30	3.80	0.80	60	7.5240
H2	4.92	1.22	0.56	70	4.2017
H2c	1.49	0.20	0.53	50	0.1490
I4	0.80	0.10	0.37	80	0.0640
J1	4.06	2.51	0.60	65	6.6239
J3	1.52	0.53	0.47	70	0.5639
J4	1.40	0.55	1.10	35	0.2695
J4c	0.55	0.20	1.00	80	0.0880
J4d	2.10	0.75	1.00	60	0.9450
J6	7.50	3.00	0.20	40	9.0000
J6b	0.84	0.20	0.35	80	0.1344
J6c	0.70	0.20	0.25	70	0.0980
J8	1.73	0.54	0.26	45	0.4204
J8a	0.72	0.14	0.32	85	0.0857
J10	1.90	0.25	0.45	65	0.3088
J11	3.60	1.20	0.45	60	2.5920
J11c	0.90	0.25	0.25	60	0.1350
J12	0.82	0.35	0.50	70	0.2009
J13	3.00	0.55	0.50	35	0.5775
J13a	1.70	0.20	0.50	65	0.2210
J16	2.20	0.95	0.60	60	1.2540
J17	1.50	0.60	0.90	50	0.4500
J18	1.80	0.60	0.75	65	0.7020
J19	1.40	0.45	0.65	65	0.4095
J20	4.70	1.55	0.75	60	4.3710
J20a	1.60	0.10	0.50	40	0.0640
J21	3.00	0.45	0.46	50	0.6750
J21a	2.90	0.80	0.45	70	1.6240
J25	3.10	0.40	0.90	60	0.7440
J26	4.30	2.05	0.95	50	4.4075
K1	2.40	1.00	1.39	65	1.5600
K2	3.90	2.40	0.90	80	7.4880
K2a	5.70	4.20	0.95	70	16.7580
K2.1	0.90	0.50	0.30	50	0.2250
K4	2.50	0.40	1.10	80	0.8000
K7	4.39	2.50	0.50	65	7.1338
K8	0.60	0.55	0.25	45	0.1485
K9.1	2.37	0.58	0.20	40	0.5498

Texas wild-rice
Plant Stand Attributes for 1996

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
K9.2	3.97	2.32	0.40	55	5.0657
K10	1.20	0.67	0.25	10	0.0804
K10.1	2.99	0.92	0.55	80	2.2006
K10.2	0.85	0.50	0.20	80	0.3400
K10.3	1.84	0.64	0.40	80	0.9421
K10.3b	2.03	1.20	0.70	80	1.9488
K10.3c	3.02	1.05	0.47	80	2.5368
K14	4.40	0.60	0.90	70	1.8480
K15	7.30	6.00	0.47	55	24.0900
K15a	2.40	0.30	0.40	50	0.3600
K17	0.75	0.05	0.57	90	0.0338
K17a	2.45	0.72	0.50	70	1.2348
K18	2.60	1.15	0.47	80	2.3920
K18.1	2.10	0.65	0.55	75	1.0238
K19	3.60	0.90	0.70	80	2.5920
K20	3.30	0.70	0.85	75	1.7325
K29	1.19	0.35	0.71	70	0.2916
K34	1.61	0.46	0.42	60	0.4444
K35	2.19	1.40	0.12	70	2.1462
K36.1	1.89	0.50	0.51	60	0.5670
K36.2	1.50	0.40	0.55	75	0.4500
K36.3	2.75	2.00	0.50	60	3.3000
K37	4.10	2.15	0.55	50	4.4075
K37a	4.30	2.50	0.65	50	5.3750
K38	7.75	4.15	0.65	50	16.0813
K38a	2.20	0.75	0.65	70	1.1550
K39	2.20	1.50	0.85	60	1.9800
K40	3.30	0.85	0.90	70	1.9635
K41	13.80	7.60	0.50	40	41.9520
K41b	1.70	0.35	0.55	85	0.5058
K41.1	6.00	3.25	0.36	55	10.7250
K41.1a	1.60	0.70	0.90	80	0.8960
K41.1b	1.00	0.35	0.75	75	0.2625
K41.2	2.90	1.20	0.90	65	2.2620
K42	10.15	3.50	0.60	45	15.9863
K42c	1.10	0.40	0.70	50	0.2200
K43	2.20	1.20	0.50	60	1.5840
K44	4.40	1.95	0.75	70	6.0060
K45	1.70	0.85	0.95	60	0.8670
K48	0.70	0.15	0.85	80	0.0840
L0	2.50	0.80	1.92	80	1.6000
L0.1	0.84	0.60	0.50	70	0.3528

Texas wild-rice
Plant Stand Attributes for 1997

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
A0	2.00	0.90	0.40	75	1.3500
A0.1	1.40	0.60	0.55	65	0.5460
A0.2	1.20	0.90	0.65	70	0.7560
A0.3	1.75	0.85	0.60	50	0.7438
A0.4	2.20	2.30	0.63	60	3.0360
A0.5	1.20	0.40	0.55	75	0.3600
A0.6	1.30	0.30	0.55	80	0.3120
A0.7	0.50	0.10	0.40	50	0.0250
A0.8	0.70	0.20	0.60	75	0.1050
A0.9	2.10	0.40	0.60	75	0.6300
A0.10	1.70	0.40	0.50	40	0.2720
A0.11	0.55	0.20	0.60	60	0.0660
A0.12	0.50	0.20	0.60	50	0.0500
A0.13	1.30	0.60	0.95	50	0.3900
A0.14	0.90	0.12	0.72	30	0.0324
A0.15	1.90	0.80	0.60	70	1.0640
A0.16	1.10	0.70	0.50	60	0.4620
A0.17	1.00	0.90	0.60	60	0.5400
A0.18	1.00	0.50	0.50	75	0.3750
A0.19	2.60	0.90	0.95	50	1.1700
A0.20	1.30	0.70	1.20	80	0.7280
A0.21	1.10	0.40	1.30	60	0.2640
A1	11.20	2.70	1.00	80	24.1920
A2	2.30	1.00	1.50	50	1.1500
A3	4.60	2.40	0.75	55	6.0720
A3a	2.20	1.20	0.75	70	1.8480
A5.1	2.00	1.10	1.20	80	1.7600
A7	2.20	0.70	0.75	45	0.6930
B1a	5.50	1.90	0.80	65	6.7925
B1c	2.40	0.60	0.95	60	0.8640
B1f	2.40	0.25	1.20	65	0.3900
B1fa	3.70	0.70	1.10	50	1.2950
B1fb	4.80	0.90	1.10	70	3.0240
B1h	3.80	1.20	0.90	65	2.9640
B1.1	2.10	0.45	0.95	75	0.7088
B2	14.90	8.50	0.70	60	75.9900
B2a	3.00	0.90	1.30	55	1.4850
B3	1.20	0.30	1.00	55	0.1980
B3b	2.20	0.50	1.20	60	0.6600
B3ba	2.40	0.50	1.20	60	0.7200
B3.1d	1.90	0.65	1.20	65	0.8028
B3.4	6.25	1.53	1.25	50	4.7813
B3.5	3.00	0.80	1.00	60	1.4400
B3.6	3.50	0.60	1.00	65	1.3650
B4	9.30	6.70	0.95	45	28.0395
B4b	2.20	2.00	0.80	60	2.6400
B4c	1.80	0.60	1.00	60	0.6480
B5	14.40	3.70	1.00	65	34.6320
B7	10.75	4.00	1.30	50	21.5000
B7a	4.40	0.90	1.50	60	2.3760
B7.1	4.35	1.45	0.85	65	4.0999

Texas wild-rice
Plant Stand Attributes for 1997

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
B10	26.20	9.40	1.05	35	86.1980
B10c	4.35	2.45	1.35	65	6.9274
B10.3	3.50	1.90	0.90	70	4.6550
B10.8	3.30	1.60	1.00	75	3.9600
B10.9	1.95	0.46	1.35	30	0.2691
B11	8.05	4.90	1.12	30	11.8335
B11.1	0.70	0.70	1.57	20	0.0980
B11.3	1.53	1.83	1.52	75	2.0999
B11.6	1.60	1.10	1.60	55	0.9680
B11.7	4.95	1.60	1.25	70	5.5440
B11.8	4.70	1.53	1.25	80	5.7528
B11.9	4.35	2.32	1.37	60	6.0552
B11.15	2.30	1.30	1.05	65	1.9435
B11.17	5.30	1.30	1.25	55	3.7895
B11.19	1.60	0.65	1.45	85	0.8840
B11.19a	7.00	2.90	1.43	35	7.1050
B11.19b	0.95	0.40	1.34	75	0.2850
B11.19c	0.90	0.30	1.55	80	0.2160
B11.24	2.80	1.60	1.10	75	3.3600
B11.26	5.15	2.61	1.37	55	7.3928
B11.28	2.90	1.60	1.20	70	3.2480
B11.29	1.80	0.40	1.04	40	0.2880
B14	3.90	2.10	1.28	70	5.7330
B15	3.20	2.28	1.58	70	5.1072
B15.1	4.50	3.05	1.34	60	8.2350
B15.2	3.50	1.30	1.30	60	2.7300
B15.3	1.90	0.40	1.25	10	0.0760
B15.4	4.70	1.70	1.01	80	6.3920
B15.4a	1.80	0.60	1.10	80	0.8640
B15.7	3.70	0.75	0.94	85	2.3588
B15.10	3.40	1.90	1.62	60	3.8760
B15.11	2.00	0.60	1.50	55	0.6600
B15.14	3.00	1.05	1.05	95	2.9925
B15.15	6.86	2.20	1.42	80	12.0736
B15.16	2.35	2.70	1.85	80	5.0760
B15.18	6.75	2.54	1.14	50	8.5725
B15.20	2.80	1.30	1.50	75	2.7300
B15.21	4.30	1.60	1.50	75	5.1600
B15.23	4.10	1.45	0.99	70	4.1615
B15.25	2.49	0.75	1.70	70	1.3073
B15.29	1.83	0.95	1.35	80	1.3908
B15.30	3.70	1.10	1.40	50	2.0350
B15.31	1.75	0.33	1.35	60	0.3465
B15.32	3.80	1.50	1.23	85	4.8450
B15.33	3.60	1.70	1.50	65	3.9780
B15.34	2.60	0.90	1.40	80	1.8720
B15.35	2.10	2.30	1.55	60	2.8980
B15.36	2.10	1.70	1.85	70	2.4990
B15.37	0.93	0.35	1.37	80	0.2604
B15.38	3.65	0.45	0.90	60	0.9855
B15.39	3.20	0.70	1.12	75	1.6800
B16.7	4.00	1.54	1.10	60	3.6960

Texas wild-rice
Plant Stand Attributes for 1997

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
B16.8	7.50	3.15	1.40	60	14.1750
B16.10	4.10	1.35	1.04	40	2.2140
B16.12	2.70	1.30	1.43	60	2.1060
B16.13	2.20	1.00	1.10	60	1.3200
B16.15	7.20	0.75	1.15	75	4.0500
B16.16	2.10	1.00	1.00	70	1.4700
B16.17	5.00	2.00	1.00	60	6.0000
B16.19	2.60	1.20	1.34	70	2.1840
B16.20	1.00	0.40	0.85	50	0.2000
B16.21	0.94	0.20	1.15	35	0.0658
B17.8	3.00	1.03	1.07	65	2.0085
B17.9	3.30	0.80	0.94	65	1.7160
B17.10	2.35	0.85	1.03	75	1.4981
B17.14	2.40	0.94	0.99	70	1.5792
B18	3.85	1.30	1.05	75	3.7538
B18.1	2.70	0.57	1.04	55	0.8465
B19	2.75	1.10	1.06	65	1.9663
B22	1.40	0.70	1.70	65	0.6370
B23	1.90	0.90	1.38	70	1.1970
B24	2.20	0.45	0.90	50	0.4950
B25	2.20	0.70	1.36	50	0.7700
B26	2.45	1.05	1.70	70	1.8008
B27	1.87	0.90	1.74	70	1.1781
B28	2.80	0.80	0.90	70	1.5680
C1	5.40	2.85	1.19	85	13.0815
C2	19.50	7.10	1.34	60	83.0700
C2a	3.05	3.15	1.75	70	6.7253
C3.1	1.80	0.80	1.85	75	1.0800
C5	45.20	9.90	0.89	60	268.4880
C5b	6.26	1.69	1.38	70	7.4056
C5.1	4.60	3.50	0.85	50	8.0500
C5.5	1.90	0.60	1.83	60	0.6840
C6	14.60	3.70	0.60	45	24.3090
C6f	3.40	0.60	0.67	70	1.4280
C7	2.00	0.12	0.73	50	0.1200
C9	1.07	0.65	0.90	70	0.4869
C9b	1.50	0.46	0.97	55	0.3795
C9c	1.28	0.50	0.74	60	0.3840
C9d	1.53	0.47	0.90	55	0.3955
E0	0.97	0.21	0.37	80	0.1630
E1	6.83	2.30	0.97	75	11.7818
E1b	3.55	1.81	1.15	65	4.1766
E2	5.34	2.40	1.05	55	7.0488
E3	2.90	3.60	1.50	60	6.2640
E5	1.62	0.70	1.30	40	0.4536
E6	2.10	0.40	1.25	75	0.6300
E6.3	4.63	1.40	0.67	45	2.9169
E6.6	1.70	0.58	0.58	70	0.6902
E6.9	2.15	0.47	0.95	75	0.7579
E6.10	2.65	0.20	0.40	65	0.3445

**Texas wild-rice
Plant Stand Attrlbutes for 1997**

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
E7	1.52	0.40	0.98	85	0.5168
E7.1	2.62	0.98	0.90	70	1.7973
E8	4.34	4.10	0.90	45	8.0073
E8a	2.56	0.81	1.00	75	1.5552
E8b	2.30	0.46	0.85	55	0.5819
E8.1	1.85	1.15	1.00	65	1.3829
E9	3.97	2.51	1.75	60	5.9788
E11	4.30	1.80	1.60	65	5.0310
E11d	2.70	1.10	1.60	75	2.2275
E11e	1.28	0.50	1.60	60	0.3840
E14	9.10	3.00	1.13	50	13.6500
F2	2.90	1.50	1.63	80	3.4800
F2.1	3.50	1.35	1.60	55	2.5988
F2.2	1.55	0.70	1.55	70	0.7595
F3	2.50	0.60	1.70	65	0.9750
F4	3.10	0.60	1.90	50	0.9300
F4.4	2.20	1.20	1.55	80	2.1120
F5	3.20	1.40	1.00	80	3.5840
F5.1	2.60	1.15	1.35	80	2.3920
F6	20.00	8.00	1.15	40	64.0000
F7	4.32	3.80	1.40	80	13.1328
F8	9.95	5.00	1.70	50	24.8750
F11	9.90	4.29	1.13	85	36.1004
F12	46.05	10.51	0.65	35	169.3949
F13	3.55	2.50	1.45	80	7.1000
F14	2.20	0.65	1.37	80	1.1440
F15	2.54	1.48	1.60	75	2.8194
G1	1.03	1.50	1.75	60	0.9270
G2	3.70	1.10	1.25	60	2.4420
G3	3.00	4.10	1.10	70	8.6100
H2	3.20	1.30	0.80	40	1.6640
H2c	0.70	0.25	0.80	70	0.1225
H2d	1.00	0.75	0.90	50	0.3750
H2e	0.95	0.30	0.90	95	0.2708
J1	3.50	1.50	0.95	80	4.2000
J1b	1.40	0.55	0.87	60	0.4620
J4	2.45	0.65	1.25	80	1.2740
J6	3.30	1.60	0.63	80	4.2240
J6c	1.40	0.30	0.45	90	0.3780
J6d	3.95	1.05	0.60	75	3.1106
J6e	4.70	0.60	0.55	75	2.1150
J7.2	0.85	0.35	0.60	80	0.2380
J8	2.20	1.75	0.67	75	2.8875
J11	3.45	2.35	0.90	80	6.4860
J13	3.00	0.45	1.00	95	1.2825
J13a	1.27	0.40	0.90	95	0.4826
J16	1.30	1.50	1.35	70	1.3650
J18	1.25	0.90	1.35	80	0.9000

Texas wild-rice
Plant Stand Attributes for 1997

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
J18a	0.90	0.40	1.25	75	0.2700
J20	3.20	1.00	1.35	40	1.2800
J21	2.15	0.60	1.00	80	1.0320
J21a	2.00	1.00	1.05	65	1.3000
J25	1.90	0.70	1.80	80	0.7980
J26	2.90	2.00	1.35	50	2.9000
K2	3.50	2.50	1.30	60	5.2500
K2a	3.10	4.70	1.30	90	13.1130
K4	2.40	0.45	1.40	85	0.9180
K7	2.50	2.30	1.00	70	4.0250
K8	3.70	3.90	0.97	40	5.7720
K9,1	1.40	0.67	0.95	90	0.8442
K10	1.70	1.15	1.00	85	1.6618
K10.2	0.95	0.30	1.15	60	0.1710
K10.3b	1.30	1.45	1.40	70	1.3195
K14	1.70	0.60	1.45	65	0.6630
K15	5.90	5.75	1.00	35	11.8738
K18	3.00	1.60	1.30	80	3.8400
K18.1	1.25	0.50	1.20	80	0.5000
K19	1.60	0.75	1.40	60	0.7200
K20	2.55	0.50	1.55	80	1.0200
K34	2.80	0.60	1.10	80	1.3440
K35	1.60	0.40	1.00	75	0.4800
K36.2	1.90	0.40	1.30	70	0.5320
K36.3	1.65	1.65	1.15	65	1.7696
K37	1.45	1.10	1.10	85	1.3558
K37c	3.30	1.60	1.40	75	3.9600
K38	2.90	1.20	1.40	80	2.7840
K38a	4.20	0.95	1.45	55	2.1945
K41	11.70	5.40	1.20	40	25.2720
K41a	3.80	1.90	1.05	75	5.4150
K41c	2.00	0.65	1.30	80	1.0400
K41.1	4.35	2.05	1.40	85	7.5799
K42	6.60	3.35	1.30	75	16.5825
K43	2.35	1.40	1.30	80	2.6320
K44	4.20	1.80	1.40	75	5.6700
K45	2.75	1.75		85	4.0906
L0	1.65	1.51	1.82	75	1.8686

Texas wild-rice
Plant Stand Attributes for 1998

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
A0	2.35	0.94	0.26	70	1.5463
A0.1	1.40	0.80	0.30	80	0.8960
A0.2	2.00	0.67	0.30	75	1.0050
A0.3	3.20	1.59	0.70	55	2.7984
A0.6	1.87	0.62	0.30	65	0.7536
A0.8	1.07	0.42	0.43	70	0.3146
A0.9	1.40	0.66	0.35	80	0.7392
A0.10	1.40	0.42	0.30	60	0.3528
A0.12	0.75	0.30	0.43	70	0.1575
A0.13	1.60	0.90	0.69	65	0.9360
A0.14	2.46	0.90	0.56	75	1.6605
A0.15	2.34	0.87	0.43	75	1.5269
A0.16	2.30	1.70	0.43	50	1.9550
A0.20	2.47	1.53	0.94	65	2.4564
A0.21	2.18	1.13	1.07	90	2.2171
A0.22	1.85	1.00	0.22	65	1.2025
A0.23	1.10	0.80	0.68	50	0.4400
A0.24	1.07	0.56	0.35	90	0.5393
A0.25	2.65	0.86	0.75	85	1.9372
A1	12.22	2.40	0.66	70	20.5296
A2	3.35	1.50	0.53	60	3.0150
A3	3.70	2.50	0.33	55	5.0875
A3a	0.75	0.85	0.53	40	0.2550
A5.1	2.78	1.25	0.95	70	2.4325
A7	3.32	1.15	0.55	70	2.6726
B1	6.42	2.00	0.60	75	9.6300
B1a	3.50	1.70	0.64	85	5.0575
B1b	2.50	0.80	0.55	75	1.5000
B1c	1.96	0.40	0.70	40	0.3136
B2	59.95	13.60	0.33	45	366.8940
B5g2	2.50	1.90	1.10	65	3.0875
B5g3	1.80	0.75	1.00	60	0.8100
B5g4	6.80	3.20	1.00	50	10.8800
B5g5	3.80	1.60	0.60	85	5.1680
B5i	7.75	0.67	1.05	40	2.0770
B6a	9.90	4.35	0.40	65	27.9923
B6a1	2.95	1.80	0.95	30	1.5930
B7c1	3.20	0.80	0.57	70	1.7920
B7c2	2.00	0.90	0.89	90	1.6200
B7c3	6.00	4.30	0.62	70	18.0600
B7e	6.70	1.00	0.75	70	4.6900
B10c	4.00	3.12	1.06	85	10.6080
B10d	3.90	2.90	1.06	75	8.4825
B11e	3.75	1.05	1.22	60	2.3625
B11e1	5.20	2.00	1.02	70	7.2800
B11e2	1.47	0.67	1.25	90	0.8864
B11e3	2.46	1.33	1.10	30	0.9815
B11f	3.80	2.50	1.11	55	5.2250
B11i	1.94	1.98	1.22	50	1.9206
B11j2	4.90	5.00	1.75	45	11.0250
B11o	3.50	2.45	1.63	50	4.2875

Texas wild-rice
Plant Stand Attributes for 1998

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
B11o1	7.90	2.75	1.20	65	14.1213
B11o2	3.45	1.80	0.47	60	3.7260
B12	4.55	2.05	1.00	60	5.5965
B13	5.45	2.15	1.15	60	7.0305
B13a	5.50	1.62	0.76	85	7.5735
B13a1	3.00	0.80	1.32	75	1.8000
B13b	2.27	1.25	0.85	75	2.1281
B13b1	3.56	0.55	0.61	70	1.3706
B13c	1.87	0.75	1.15	90	1.2623
B13c1	3.25	1.30	1.61	70	2.9575
B13d	15.50	9.65	1.15	20	29.9150
B14	2.90	1.34	1.00	55	2.1373
B14a	2.65	1.30	0.86	55	1.8948
B14b	2.75	1.10	0.91	80	2.4200
B14b1	3.77	4.25	0.89	55	8.8124
B14c	4.00	1.60	1.16	60	3.8400
B14c1	1.74	1.70	1.35	65	1.9227
B14c4	1.25	0.45	1.35	90	0.5063
B14c5	1.22	0.64	1.35	85	0.6637
B14d	7.00	3.28	0.87	55	12.6280
B14d1	3.05	1.33	1.12	70	2.8396
B14g	3.75	1.30	1.20	65	3.1688
B14h	4.81	2.15	0.97	80	8.2732
B14i	2.15	0.73	1.31	75	1.1771
B14i1	2.35	0.80	1.34	65	1.2220
B15	1.05	1.39	1.03	80	1.1676
B15a1	1.20	0.50	1.23	70	0.4200
B15a2	1.73	0.43	1.22	70	0.5207
B15a3	1.44	1.13	1.83	60	0.9763
B15a4	1.80	1.09	2.23	75	1.4715
B15c	3.45	1.33	1.17	70	3.2120
B15d	5.25	1.42	0.74	80	5.9640
B15f	3.70	2.13	0.89	85	6.6989
B15i	3.20	1.20	1.34	80	3.0720
B15i1	2.05	0.90	1.90	60	1.1070
B15j	4.07	1.54	1.50	70	4.3875
B15k	4.30	1.60	0.91	70	4.8160
B16	5.20	1.90	0.80	75	7.4100
B16b	3.30	0.90	0.60	60	1.7820
B16c	3.20	1.50	1.10	65	3.1200
B16d	4.30	1.34	0.60	55	3.1691
B16d1	4.12	0.85	0.65	70	2.4514
B16e	1.30	0.70	0.70	70	0.6370
B16f	2.80	1.10	0.95	80	2.4640
B20b	2.70	1.00	0.85	70	1.8900
B20c	2.10	0.65	0.87	75	1.0238
B20d	2.80	1.25	0.80	70	2.4500
B25	9.50	3.40	0.90	70	22.6100
B25b	5.20	1.40	0.80	55	4.0040
B25c	1.55	0.62	0.69	60	0.5766
B26a	2.30	0.72	0.70	70	1.1592
B27	4.70	1.30	0.65	50	3.0550

Texas wild-rice
Plant Stand Attributes for 1998

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
B27a	1.50	0.51	0.67	60	0.4590
B27b	1.50	0.50	0.61	50	0.3750
B27c	1.80	0.64	0.60	70	0.8064
B27d	0.90	0.45	0.60	35	0.1418
B27e	2.10	0.55	0.65	35	0.4043
B29	2.90	1.60	0.75	65	3.0160
B31	3.00	1.10	0.70	60	1.9800
B31a	2.90	0.80	0.65	60	1.3920
B32	4.10	1.62	0.83	65	4.3173
B33	3.20	1.40	0.85	80	3.5840
B34	2.54	1.53	0.83	90	3.4976
B34a	2.76	0.90	0.75	80	1.9872
B35	2.50	0.75	0.73	80	1.5000
B36	2.25	1.27	1.40	75	2.1431
B36a	2.33	1.00	1.35	75	1.7475
B36b	1.58	0.90	1.00	60	0.8532
B36c	1.90	0.95	1.09	75	1.3538
B36d	2.07	0.80	0.49	80	1.3248
B37	1.85	0.75	1.40	60	0.8325
B38	2.30	0.63	0.70	80	1.1592
C1	5.00	2.70	0.94	65	8.7750
C2	18.70	7.07	1.07	50	66.1045
C2a	7.80	1.75	1.60	60	8.1900
C3.1	2.70	1.20	1.70	60	1.9440
C5	45.60	10.40	0.80	60	284.5440
C5b	7.40	1.80	1.25	70	9.3240
C5.1	5.10	3.80	0.61	55	10.6590
C5.5	2.87	0.90	1.70	80	2.0664
C6	14.50	2.70	0.45	65	25.4475
C6b	1.90	0.45	0.35	65	0.5558
C6g	2.80	0.50	0.40	70	0.9800
C6h	1.20	0.30	0.55	50	0.1800
C9	1.50	0.65	0.65	70	0.6825
C9b	2.35	0.85	0.80	75	1.4981
C9c	1.30	0.90	0.60	80	0.9360
C9d	1.50	0.60	0.75	80	0.7200
E1	3.10	2.60	0.70	60	4.8360
E1a	3.70	1.20	0.90	75	3.3300
E1b	3.10	1.50	0.90	65	3.0225
E1c	4.50	2.10	0.60	70	6.6150
E2	3.50	2.20	0.80	65	5.0050
E2a	2.10	0.55	0.70	75	0.8663
E2b	0.90	0.65	0.80	70	0.4095
E2c	1.10	0.25	0.85	70	0.1925
E2d	4.00	1.10	0.80	65	2.8600
E2e	1.80	0.45	0.80	70	0.5670
E3	1.80	3.50	0.90	40	2.5200
E5	0.80	0.50	1.20	35	0.1400
E6	1.70	0.45	0.90	70	0.5355
E6.3	3.90	1.00	0.30	50	1.9500

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Plant Stand Attributes for 1998

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
E6.6	1.34	0.40	0.30	80	0.4288
E6.9	1.90	0.50	0.60	80	0.7600
E7.1	1.70	0.90	0.70	70	1.0710
E7.4	1.30	0.30	0.45	80	0.3120
E8	2.85	1.36	0.55	70	2.7132
E8a	1.14	0.53	0.95	90	0.5438
E8b	1.60	0.35	0.60	85	0.4760
E8c	2.85	1.30	0.68	65	2.4083
E8d	1.00	0.45	0.58	60	0.2700
E8f	0.81	0.45	0.72	60	0.2187
E8.1	1.20	0.56	0.65	80	0.5376
E9	3.00	2.20	1.19	55	3.6300
E9.1	2.80	1.27	1.20	50	1.7780
E11	3.83	2.57	1.30	55	5.4137
E11c	1.50	0.98	1.30	80	1.1760
E11d	3.00	0.77	1.11	90	2.0790
E14	8.80	3.15	0.75	40	11.0880
E14.1	1.72	0.39	0.56	75	0.5031
F2	2.90	1.30	0.76	65	2.4505
F2.1	4.20	1.10	1.45	60	2.7720
F2.2	3.50	0.71	1.31	80	1.9880
F3	2.40	1.40	1.35	65	2.1840
F4	2.70	0.85	1.58	65	1.4918
F4.4	2.75	1.00	1.25	75	2.0625
F5	3.70	1.30	0.60	75	3.6075
F5.1	4.10	0.95	1.10	70	2.7265
F6	18.10	10.00	0.85	40	72.4000
F6c	2.80	0.90	0.70	80	2.0160
F7	3.35	3.55	1.10	60	7.1355
F8	8.20	4.79	1.50	40	15.7112
F8b	3.53	2.20	0.60	60	4.6596
F8e	3.70	1.90	1.40	55	3.8665
F8f	2.10	1.30	0.75	75	2.0475
F11	10.90	4.60	0.90	70	35.0980
F12	36.60	10.55	0.45	40	154.4520
F13	5.20	2.10	1.15	70	7.6440
F14	1.70	0.37	1.20	60	0.3774
F15	2.50	1.80	1.30	65	2.9250
F16	0.90	0.25	1.65	50	0.1125
G1	4.62	2.10	1.70	75	7.2765
G2	3.40	1.00	1.07	80	2.7200
G3	4.15	3.72	1.05	70	10.8066
H2	2.80	1.25	0.63	50	1.7500
H2c	1.11	0.37	0.58	75	0.3080
H2d	1.20	0.70	0.69	75	0.6300
H2e	0.70	0.25	0.75	85	0.1488
H5	1.20	0.21	0.70	25	0.0630
J1	3.80	2.50	0.55	60	5.7000

Texas wild-rice
Plant Stand Attributes for 1998

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
J4	2.55	0.65	1.00	85	1.4089
J6	3.72	1.58	0.40	60	3.5266
J6c	0.67	0.20	0.27	70	0.0938
J6d	1.95	1.23	0.39	60	1.4391
J6e	1.12	0.66	0.44	30	0.2218
J7.1	2.02	0.80	0.82	75	1.2120
J7.2	1.74	0.75	0.33	70	0.9135
J8	2.75	2.14	0.33	65	3.8253
J10	0.92	0.50	0.66	70	0.3220
J11	3.12	1.34	0.41	70	2.9266
J13	4.17	0.97	0.65	55	2.2247
J16	2.00	1.09	0.95	75	1.6350
J18	2.11	1.12	1.17	70	1.6542
J18a	2.89	0.68	0.87	75	1.4739
J20	4.58	1.61	0.85	60	4.4243
J21	2.90	0.75	0.65	80	1.7400
J21a	2.80	1.00	0.73	70	1.9600
J25	7.60	2.90	1.20	55	12.1220
K2	3.30	2.90	1.05	75	7.1775
K2a	7.20	4.60	1.20	60	19.8720
K4	2.00	1.10	1.16	80	1.7600
K7	4.25	1.76	0.75	60	4.4880
K7a	0.95	0.10	0.85	60	0.0570
K7b	0.96	0.10	0.86	60	0.0576
K8	1.36	0.91	0.45	80	0.9901
K9.1	1.62	0.52	0.49	80	0.6739
K9.2	2.98	2.57	0.56	65	4.9781
K10	1.94	1.20	0.60	60	1.3968
K10.1	2.67	0.89	0.65	80	1.9010
K10.2	1.70	0.50	0.56	75	0.6375
K10.3	2.05	0.73	0.64	85	1.2720
K10.3b	3.14	1.15	0.94	70	2.5277
K10.3c	2.49	1.03	0.75	65	1.6671
K14	2.90	0.34	1.22	95	0.9367
K15	5.90	4.91	0.56	60	17.3814
K15a	3.85	0.27	0.80	80	0.8316
K15b	2.50	0.25	0.82	90	0.5625
K15c	1.38	0.15	0.90	95	0.1967
K18	2.47	1.03	0.82	70	1.7809
K18.1	1.19	1.52	0.95	80	1.4470
K18.2	0.69	0.03	0.71	60	0.0124
K18.3	0.95	0.05	0.77	60	0.0285
K19	2.37	0.81	0.91	85	1.6317
K20	2.70	0.48	1.00	80	1.0368
K20.1	0.76	0.11	0.15	60	0.0502
K34	3.35	0.75	0.75	65	1.6331
K35	1.80	0.45	0.65	60	0.4860
K36.2	1.90	0.40	0.90	65	0.4940
K36.3	3.35	1.80	0.75	50	3.0150
K36.3a	1.35	0.40	1.05	85	0.4590
K37	4.20	2.20	0.83	55	5.0820

Texas wild-rice
Plant Stand Attributes for 1998

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
K37a	1.90	0.50	0.81	80	0.7600
K37c	4.20	2.00	0.90	75	6.3000
K38	5.10	2.90	0.90	65	9.6135
K38a	3.10	0.80	0.80	70	1.7360
K41	15.65	8.20	0.40	55	70.5815
K41b	2.80	0.85	0.80	70	1.6660
K41.1	6.10	3.00	1.00	65	11.8950
K41.1b	1.80	0.65	0.80	75	0.8775
K41.2	2.90	2.50	1.40	70	5.0750
K41.3	2.10	0.90	0.75	75	1.4175
K42	10.30	3.50	0.90	70	25.2350
K43	2.95	1.63	0.70	80	3.8468
K44	4.30	2.00	1.00	85	7.3100
K45	2.90	1.60	1.20	65	3.0160

Texas wild-rice
Plant Stand Attributes for 1999

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
A0	2.90	1.30	0.40	80	3.0160
A0.3	6.80	3.00	0.50	50	10.2000
A0.3a	1.20	0.50	0.35	60	0.3600
A0.5	0.80	1.50	0.40	80	0.9600
A0.6	1.20	0.50	0.35	75	0.4500
A0.9	1.10	0.20	0.35	65	0.1430
A0.13	2.70	1.10	0.70	75	2.2275
A0.14	1.90	0.60	0.50	60	0.6840
A0.15	2.00	1.40	0.35	50	1.4000
A0.16	1.30	0.30	0.60	90	0.3510
A0.20	3.10	1.50	1.00	50	2.3250
A0.22	1.70	0.60	0.30	80	0.8160
A0.24	3.10	0.65	0.20	65	1.3098
A0.25	3.90	0.75	0.90	70	2.0475
A0.26	0.90	0.20	0.25	70	0.1260
A0.27	2.70	1.60	0.90	60	2.5920
A0.28	1.60	0.35	0.50	70	0.3920
A0.29	1.90	0.70	0.60	75	0.9975
A0.30	1.50	0.20	0.65	60	0.1800
A0.31	2.10	0.50	0.60	70	0.7350
A0.32	2.40	0.60	1.20	65	0.9360
A1	12.90	4.00	0.60	65	33.5400
A2	2.60	0.90	0.65	60	1.4040
A3	1.65	1.10	1.05	55	0.9983
A5.1	3.10	1.10	0.95	80	2.7280
A5.2	1.70	1.00	1.30	60	1.0200
A5.3	0.50	0.30	0.50	60	0.0900
A7	3.80	1.30	0.55	75	3.7050
A7.1	0.80	0.10	0.50	40	0.0320
B1a	1.90	0.63	75	8.4788	306.4956
B1c	1.10	0.55	0.95	80	0.4840
B1f	8.00	1.60	1.00	50	6.4000
B1h	5.20	2.40	0.85	80	9.9840
B1i	1.55	0.67	40	1.9840	333.9372
B2	12.10	8.90	0.50	40	43.0760
B2a	1.30	0.60	0.70	80	0.6240
B2c	2.20	0.85	0.65	75	1.4025
B2d	2.45	1.80	0.73	65	2.8665
B2e	1.90	0.55	40	3.1540	251.0000
B2f	2.45	1.65	0.50	35	1.4149
B2g	1.85	0.75	0.25	60	0.8325
B2.2	3.25	1.00	0.55	90	2.9250
B3.5	1.00	0.85	80	4.9600	177.1039
B4b	11.60	5.70	0.47	65	42.9780
B4d	1.90	0.75	0.79	80	1.1400
B4e	3.10	0.80	1.00	75	1.8600
B5	3.45	1.15	0.30	35	1.3886
B5a	0.75	0.55	80	1.0800	225.0000
B6	6.80	2.85	0.40	60	11.6280
B7	33.00	12.60	0.10	40	166.3200
B7a	2.65	0.55	75	9.9375	219.0000

Texas wild-rice
Plant Stand Attributes for 1999

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
B11.5	9.20	2.15	0.85	60	11.8680
B11.8	4.05	3.45	1.35	50	6.9863
B11.10	0.80	0.40	1.40	80	0.2560
B11.19aa	1.30	0.70	1.20	50	0.4550
B11.19ab	0.85	0.60	0.60	60	0.3060
B11.19d	0.60	1.15	75	0.4950	83.8883
B11.26	2.35	0.65	60	7.6845	62.8719
B11.28	2.80	0.75	60	5.7960	53.1969
B11.29	0.95	0.70	65	0.7719	63.9636
B14	2.75	1.05	60	6.0225	42.9969
B14.1	0.95	0.45	0.75	70	0.2993
B15	1.10	1.10	70	1.6940	28.0000
B15a	1.40	1.05	65	3.9585	34.2300
B15b	0.65	1.30	55	0.6078	45.0000
B15.1	1.35	1.30	55	2.3018	59.5303
B15.2	3.52	1.45	1.00	70	3.5728
B15.3	1.29	0.95	45	1.4222	46.7436
B15.4	2.00	1.20	0.60	80	1.9200
B15.4a	1.90	0.80	0.80	70	1.0640
B15.4aa	2.00	0.55	0.85	70	0.7700
B15.4b	2.90	1.50	0.70	70	3.0450
B15.7	4.70	0.85	0.60	80	3.1960
B15.10	5.70	3.50	1.98	45	8.9775
B15.10a	3.40	1.05	2.05	50	1.7850
B15.11	1.20	1.15	65	1.9110	75.5883
B15.15	2.15	1.10	1.30	80	1.8920
B15.16	1.60	0.95	1.85	65	0.9880
B15.18	8.07	2.34	1.30	65	12.2745
B15.18a	3.20	1.40	1.30	80	3.5840
B15.20	1.48	1.30	70	4.3512	84.5356
B15.21	1.70	1.35	70	6.8782	92.4272
B15.23	2.55	0.67	80	7.0992	93.8644
B15.25	1.30	1.90	75	2.7788	184.6644
B15.29	1.90	0.85	1.35	70	1.1305
B15.30	1.60	0.90	1.35	70	1.0080
B15.32	7.08	2.30	0.85	60	9.7704
B15.33	4.10	2.10	1.35	70	6.0270
B15.34	3.60	1.40	1.05	80	4.0320
B15.35	1.40	0.90	1.69	75	0.9450
B15.38	0.95	0.70	50	1.8050	66.5978
B15.39	1.40	1.70	55	1.9712	197.0000
B15.41	1.20	1.30	65	2.1450	169.9633
B15.43	1.30	2.00	80	2.4960	180.2884
B15.46	1.43	1.45	65	2.3238	28.1272
B15.47	3.10	1.25	1.35	65	2.5188
B15.48	1.30	0.80	0.70	75	0.7800
B15.49	2.51	0.80	0.60	80	1.6064
B15.50	1.89	0.61	1.10	80	0.9223
B15.51	2.35	1.40	1.45	60	1.9740
B15.52	2.98	1.50	1.20	55	2.4585
B15.53	3.15	0.90	1.10	35	0.9923
B15.54	3.71	1.46	1.45	65	3.5208

Texas wild-rice
Plant Stand Attributes for 1999

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
B15.55	1.30	0.95	60	3.6660	73.0000
B15.56	0.60	0.55	80	1.2960	67.0000
B15.57	0.84	0.70	80	1.6195	73.0000
B15.58	1.50	0.60	75	2.8350	75.0000
B15.59	3.05	0.95	1.50	70	2.0283
B15.60	2.45	1.35	1.35	70	2.3153
B15.61	0.80	2.30	40	0.5760	170.0000
B15.62	1.10	0.70	2.70	70	0.5390
B15.63	2.25	0.60	2.38	80	1.0800
B15.64	1.90	0.20	1.25	70	0.2660
B15.65	1.35	0.60	0.60	40	0.3240
B15.66	1.90	1.00	0.80	75	1.4250
B16.7	4.55	1.80	1.00	85	6.9615
B16.8	10.30	3.90	1.00	80	32.1360
B16.10	1.25	0.65	0.45	60	0.4875
B16.12	2.15	1.20	0.65	60	1.5480
B16.13	2.85	0.80	0.70	35	0.7980
B16.15	0.85	0.95	75	3.0919	31.4808
B16.16	1.50	0.50	0.45	70	0.5250
B16.17	1.25	0.45	0.80	70	0.3938
B16.17a	1.60	0.40	0.60	65	0.4160
B16.17b	1.50	0.60	0.45	70	0.6300
B16.18	1.30	0.75	45	1.9305	343.3581
B16.19	3.80	1.70	1.00	70	4.5220
B16.21	1.50	0.65	70	1.8900	314.4753
B16.23	4.70	2.20	0.70	30	3.1020
B16.24	0.75	0.50	0.75	55	0.2063
B16.25	1.00	0.40	0.50	60	0.2400
B16.26	1.35	0.40	0.50	60	0.3240
B16.27	1.60	0.55	0.35	50	0.4400
B17.8	2.00	0.80	80	7.1200	273.9725
B17.9	3.40	1.45	0.70	75	3.6975
B17.10	2.30	2.00	0.90	80	3.6800
B17.14	1.30	0.80	75	3.4125	294.2308
B17.18	1.05	0.90	60	1.7010	284.1808
B17.19	0.60	0.50	50	0.3600	314.0000
B17.20	1.80	0.50	40	1.5840	314.0000
B17.21	1.60	0.70	0.70	60	0.6720
B17.22	1.25	0.60	0.60	60	0.4500
B17.23	2.40	0.55	0.75	75	0.9900
B17.24	2.85	0.90	1.00	65	1.6673
B18	1.80	0.90	55	4.2570	296.0000
B18.1	2.95	0.95	0.90	70	1.9618
B18.2	1.60	0.55	0.75	75	0.8600
B19	2.80	1.45	0.95	85	3.4510
B19a	13.65	4.30	0.90	50	29.3475
B21.1	1.30	0.50	1.35	75	0.4875
B21.2	3.00	0.90	0.90	80	2.1600
B22	1.15	1.35	65	2.5415	11.6600
B23	1.35	0.85	85	2.6393	25.4100
B24	0.60	0.65	80	0.6960	39.5183
B25	1.10	1.10	80	2.1120	34.2267

Texas wild-rice
Plant Stand Attributes for 1999

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
B26	1.55	1.40	60	2.6040	24.7600
B27	1.20	1.55	75	2.3850	87.3600
B27.1	2.65	0.60	0.65	45	0.7155
B28	0.85	0.85	70	1.6660	198.6683
B29	1.95	0.70	0.65	65	0.8873
B30	2.30	1.10	0.60	80	2.0240
C1	6.10	2.90	1.00	70	12.3830
C1.1	3.30	0.70	0.80	85	1.9635
C2	18.30	7.00	1.10	65	83.2650
C2a	5.15	2.00	1.60	75	7.7250
C3.1	2.80	1.10	1.80	75	2.3100
C5	46.94	11.00	0.80	65	335.6210
C5.1	4.70	3.50	0.80	75	12.3375
C5.5	3.80	1.05	1.85	75	2.9925
C6	11.30	3.95	0.45	55	24.5493
C6b	1.90	0.60	0.40	80	0.9120
C9	1.92	1.00	0.54	70	1.3440
C9b	3.12	1.11	0.73	85	2.9437
C9c	2.07	0.92	0.59	80	1.5235
C9d	2.10	0.75	0.75	75	1.1813
E2	3.80	4.27	0.85	70	11.3582
E2b	1.45	0.80	0.91	65	0.7540
E3	2.85	2.55	1.31	40	2.9070
E6	1.40	0.40	1.05	70	0.3920
E6.3	1.65	1.00	0.25	75	1.2375
E6.3a	1.25	0.20	0.40	75	0.1875
E6.3b	0.90	0.30	0.30	50	0.1350
E8	2.90	3.20	0.45	60	5.5680
E8d	0.95	0.55	0.75	60	0.3135
E9	1.90	2.05	1.10	55	2.1423
E9.1	0.92	1.07	1.25	80	0.7875
E11	2.80	2.30	1.15	65	4.1860
E11c	0.75	0.70	1.20	55	0.2888
E12.2	1.60	0.55	1.60	70	0.6160
E14	6.35	2.20	0.65	55	7.6835
E14a	1.05	0.15	1.00	70	0.1103
F2	2.60	1.10	0.70	75	2.1450
F5	1.39	0.20	1.40	80	0.2224
F6	18.20	7.70	0.80	60	84.0840
F6d	3.70	1.60	0.75	40	2.3680
F6e	1.45	0.45	1.10	80	0.5220
F7	3.80	3.35	1.05	75	9.5475
F8	6.50	4.10	1.15	40	10.6600
F8e	1.80	1.10	1.20	80	1.5840
F8g	3.30	1.20	1.30	70	2.7720
F11	10.10	5.10	0.75	75	38.6325
F11.1	1.30	0.45	0.45	70	0.4095
F12	39.50	10.80	0.43	35	149.3100
F12a	10.00	3.50	0.80	60	21.0000

Texas wild-rice
Plant Stand Attributes for 1999

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
F12b	2.30	1.10	0.55	70	1.7710
F13	4.65	2.80	1.30	80	10.4160
F14	2.15	0.60	1.40	75	0.9675
F15	3.85	1.00	1.50	80	3.0800
G1	5.50	1.65	1.50	70	6.3525
G2	1.90	0.15	1.12	90	0.2565
G3	4.60	4.14	0.90	85	16.1874
G3a	3.00	0.15	1.28	80	0.3600
G3b	1.10	0.10	1.10	90	0.0990
H2	1.25	0.10	0.60	90	0.1125
H2c	1.65	0.25	0.55	80	0.3713
H2d	1.20	0.55	0.65	60	0.3960
H2e	1.20	0.15	0.75	85	0.1530
H2f	2.00	0.35	0.60	90	0.6300
H2g	2.10	0.75	0.60	80	1.2600
J1	3.80	1.30	0.58	70	3.4580
J1b	1.90	0.50	0.48	80	0.7600
J4	1.75	0.65	0.95	70	0.7963
J6	1.00	0.65	0.55	55	0.3575
J6d	0.65	0.15	0.50	75	0.0731
J6f	0.40	0.15	0.50	65	0.0390
J8	1.20	0.45	0.30	90	0.4860
J8.1	1.00	0.35	0.40	80	0.2800
J8.2	1.20	0.45	0.35	85	0.4590
J13	1.10	0.20	0.55	85	0.1870
J21a	1.80	0.30	0.70	80	0.4320
K2a	0.75	0.20	1.05	60	0.0900
K2aa	1.15	0.25	0.95	75	0.2156
K9.1	1.30	0.30	0.55	85	0.3315
K10.2	1.10	0.30	0.80	85	0.2805
K13.1	0.55	0.10	1.35	30	0.0165
K15	0.65	0.05	0.90	30	0.0098
K20	3.15	0.45	1.10	85	1.2049
K38a	1.50	0.30	0.90	80	0.3600
K41.4	0.70	0.20	0.65	30	0.0420

Texas wild-rice
Plant Stand Attributes for 2000

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
A0	2.65	1.35	0.25	70	2.5043
A0.2	2.73	0.85	0.45	70	1.6244
A0.3	6.55	2.86	0.35	50	9.3665
A0.3a	1.35	1.60	0.20	75	1.6200
A0.3b	1.85	0.90	0.60	70	1.1655
A0.5	1.40	0.90	0.30	50	0.6300
A0.6	1.30	0.40	0.35	75	0.3900
A0.9	1.75	0.60	0.33	35	0.3675
A0.13	2.10	0.95	0.65	80	1.5960
A0.14	1.85	0.80	0.35	80	1.1840
A0.15	1.35	0.80	0.28	60	0.6480
A0.20	2.80	1.70	0.90	65	3.0840
A0.22	1.00	0.45	0.15	65	0.2925
A0.24	1.30	0.80	0.75	80	0.8320
A0.25	2.10	1.60	0.70	45	1.5120
A0.27	4.30	1.10	0.80	60	2.8380
A0.28	2.15	0.50	0.45	60	0.6450
A0.29	3.40	0.85	0.65	60	1.7340
A0.30	2.65	0.85	0.65	75	1.6894
A0.31	2.75	0.75	0.60	75	1.5469
A0.32	0.60	1.00	1.00	75	0.4500
A0.33	3.50	1.10	0.75	65	2.5025
A0.34	1.40	0.65	0.70	80	0.7280
A1	12.10	3.95	0.45	60	28.6770
A2	2.30	0.80	0.45	70	1.2880
A3	0.90	0.75	0.90	45	0.3038
A5.1	3.60	1.40	0.95	80	4.0320
A5.2	3.05	1.10	1.15	70	2.3485
A5.3	1.00	0.35	0.40	55	0.1925
A7	1.75	1.35	0.40	60	1.4175
A7.1	1.20	0.55	0.30	55	0.3630
B1	5.90	2.75	0.65	60	9.7350
B1a	4.10	2.60	0.65	65	6.9290
B1c	3.80	1.60	0.45	50	3.0400
B2	12.40	6.50	0.40	65	52.3900
B2c	4.40	2.00	0.40	80	7.0400
B2e	17.15	6.00	0.30	55	56.5950
B2f	2.60	1.25	0.43	60	1.9500
B2f1	4.20	2.85	0.05	50	5.9850
B2f2	0.75	0.45	0.05	30	0.1013
B2f3	0.80	0.35	0.05	80	0.2240
B2g	2.70	1.50	0.70	70	2.8350
B5a	1.70	1.20	1.15	65	1.3260
B5c3	0.30	0.30	0.65	90	0.0810
B5g5	45.70	12.30	0.55	40	224.8440
B5i	8.70	1.80	0.90	60	9.3960
B6a	17.40	6.40	0.30	45	50.1120
B6a1	0.70	0.35	0.60	80	0.1960
B7e	6.35	1.25	0.55	65	5.1594
B7g	0.80	0.50	1.00	90	0.3600
B7h	1.60	1.00	0.50	70	1.1200

Texas wild-rice
Plant Stand Attributes for 2000

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
B7i	1.90	0.65	0.70	50	0.6175
B11e	8.75	2.50	0.80	55	12.0313
B11e4	0.80	0.55	1.00	85	0.3740
B11e5	1.50	0.30	1.30	60	0.2700
B11f	3.60	2.35	1.10	75	6.3450
B11g	1.15	0.75	0.55	75	0.6489
B11g1	2.80	1.10	0.45	40	1.2320
B11j2	0.35	0.25	0.85	80	0.0700
B11o	6.25	2.60	0.70	40	6.5000
B11o2	2.65	2.00	0.45	40	2.1200
B11s	1.10	0.80	0.35	75	0.6600
B11t	2.80	0.85	1.30	60	1.4280
B11u	0.80	0.80	1.30	75	0.4800
B11v	2.50	0.50	1.25	75	0.9375
B11w	3.55	2.50	0.80	55	4.8813
B12e	1.10	1.60	1.30	65	1.1440
B12f	2.75	1.20	0.60	55	1.8150
B13	2.65	1.40	1.00	60	2.2260
B13a	6.65	3.10	0.41	35	7.2153
B13a2	3.25	1.20	1.35	60	2.3400
B13a4	1.90	1.00	1.40	65	1.2350
B13b1	5.00	4.25	0.60	50	10.6250
B13b3	2.00	0.65	0.50	65	0.8450
B13b4	2.15	1.25	0.75	75	2.0156
B13b8	2.65	1.85	0.50	75	3.6769
B13c	1.75	0.95	0.85	40	0.6650
B13d	1.40	1.10	0.90	65	1.0010
B13e	1.30	0.60	0.60	20	0.1560
B13f	6.00	3.30	0.50	45	8.9100
B14	3.70	0.70	0.90	80	2.0720
B14a	2.30	1.25	0.95	75	2.1563
B14a1	1.40	0.70	0.80	55	0.5390
B14b	1.25	0.95	1.25	55	0.6531
B14b2	3.30	1.50	1.40	80	3.9600
B14b3	4.25	1.65	1.30	65	4.5581
B14b4	1.50	0.85	0.70	75	0.9563
B14c1	1.10	0.80	1.10	60	0.5280
B14c6	1.20	0.60	1.30	85	0.6120
B14c7	2.90	1.50	1.05	65	2.8275
B14d	9.10	2.60	1.06	60	14.1960
B14d1	1.65	0.95	1.10	75	1.1756
B14d3	1.20	0.45	1.13	75	0.4050
B14d4	1.40	0.95	1.02	60	0.7980
B14h	5.05	1.70	1.00	65	5.5803
B14i	8.40	2.20	1.10	65	12.0120
B14i2	3.15	1.25	1.12	65	2.5594
B14i3	2.80	1.40	1.00	65	2.5480
B14j	3.55	1.05	1.00	70	2.6093
B15	1.63	1.11	2.10	70	1.2665
B15a4	2.00	1.56	1.50	85	2.6520
B15a5	2.10	1.10	2.45	65	1.5015
B15c	3.65	1.85	1.00	70	4.7268

Texas wild-rice
Plant Stand Attributes for 2000

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
B15c1	3.20	1.30	1.00	80	3.3280
B15d	4.65	2.10	1.30	70	6.8355
B15d2	1.95	0.80	1.20	60	0.9360
B15d3	1.85	0.80	1.20	80	1.1840
B15f	3.20	0.20	0.50	60	0.3840
B15i	2.75	1.40	1.50	75	2.8875
B15i1	1.85	1.05	1.85	60	1.1655
B15i2	1.65	0.85	1.55	70	0.9818
B15j	6.55	4.20	1.70	50	13.7550
B15j2	2.70	1.85	3.00	65	3.2468
B15j3	2.44	1.24	2.00	80	2.4205
B15j4	4.19	1.45	3.00	70	4.2529
B15j5	1.72	1.70	3.00	80	2.3392
B15j6	2.30	0.60	3.00	70	0.9660
B15j7	2.38	0.65	3.00	75	1.1603
B15j8	2.50	1.55	3.00	70	2.7125
B15k	7.20	2.90	0.70	70	14.6160
B15l	2.40	1.10	2.50	55	1.4520
B16	3.70	2.00	0.90	65	4.8100
B16b	3.60	1.00	0.65	60	2.1600
B16c	3.20	1.95	0.95	60	3.7440
B16d	1.35	0.55	0.60	70	0.5198
B16e1	0.75	0.45	0.45	75	0.2531
B16e4	1.40	0.50	0.40	65	0.4550
B16f	3.80	1.65	0.85	65	4.0755
B16g	1.95	0.85	1.00	80	1.3260
B16g1	2.30	1.00	1.50	75	1.7250
B16k	1.70	0.65	0.65	50	0.5525
B16l	1.90	0.85	0.90	70	1.1305
B20b	1.45	0.45	0.40	55	0.3589
B20c	1.95	0.95	0.50	50	0.9263
B20d	1.55	0.50	0.60	60	0.4650
B20e	3.95	1.45	0.60	35	2.0046
B20f	1.20	0.60	0.50	40	0.2880
B25	9.60	3.75	0.85	75	27.0000
B29	4.00	1.70	0.60	75	5.1000
B31	3.00	1.00	0.80	70	2.1000
B31d	1.15	0.35	0.40	10	0.0403
B32	4.30	1.60	0.70	70	4.8160
B33b	1.50	0.85	0.80	70	0.8925
B34	2.50	1.40	0.80	65	2.2750
B34a	2.50	1.00	0.50	75	1.8750
B35	2.50	1.00	0.70	65	1.6250
B35b	1.23	0.42	0.57	75	0.3875
B36	3.20	1.20	1.30	60	2.3040
B36a	3.30	1.00	1.10	65	2.1450
B36b	2.40	1.20	0.75	75	2.1600
B36c	2.20	1.00	1.00	55	1.2100
B37	2.75	1.30	1.35	60	2.1450
B37a	1.75	0.80	0.85	70	0.9800
B37a1	2.15	0.65	1.00	70	0.9783
B37b	2.45	0.90	0.50	45	0.9923

Texas wild-rice
Plant Stand Attributes for 2000

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
B38	3.10	1.10	0.65	70	2.3870
B39	2.40	0.95	0.70	65	1.4820
B40	1.85	0.95	0.45	65	1.1424
C1	6.00	3.95	0.80	70	16.5900
C2	19.50	7.60	1.10	65	96.3300
C2.1	4.05	1.25	1.45	55	2.7844
C3.1	3.00	1.30	1.50	60	2.3400
C5	47.10	9.50	0.60	80	357.9800
C5c	1.45	0.75	0.65	75	0.8156
C5d	4.50	1.00	0.65	60	2.7000
C5e	1.65	0.70	0.60	55	0.6353
C5.1	4.60	3.90	0.70	55	9.8670
C5.5	2.20	1.15	1.55	65	1.6445
C5.6	1.30	1.50	0.35	10	0.1950
C5.7	2.10	0.70	0.80	65	0.9555
C6	13.70	3.60	0.30	60	29.5920
C9	1.60	1.00	0.50	70	1.1200
C9b	3.50	1.30	0.70	75	3.4125
C9c	2.60	1.40	0.50	55	2.0020
C9d	1.80	0.70	0.75	65	0.8190
C9e	1.20	0.70	0.60	55	0.4620
C10	1.50	0.40	1.90	60	0.3600
E2	3.60	0.30	0.83	45	0.4860
E2b	3.00	0.80	0.98	60	1.4400
E2.1	1.25	0.55	0.70	80	0.5500
E3	3.00	1.50	0.80	40	1.8000
E6	1.20	0.60	0.85	60	0.4320
E6.3	1.20	0.60	0.30	30	0.2160
E8	2.80	1.45	0.40	70	2.8420
E8c	0.70	0.30	0.45	30	0.0630
E8d	2.10	1.60	0.45	50	1.6800
E9	2.15	1.55	1.05	65	2.1661
E9.1	1.95	1.10	1.15	45	0.9653
E11	3.35	3.45	0.95	60	6.9345
E11c	0.65	0.65	0.95	40	0.1690
E14	5.25	1.75	0.70	55	5.0531
F2	1.35	1.10	0.75	25	0.3713
F5	2.00	0.65	1.40	65	0.8450
F6	19.90	8.50	0.75	35	59.2025
F6e	1.75	0.85	1.10	70	1.0413
F7	4.90	3.65	1.00	70	12.5195
F8	7.60	5.00	1.20	50	19.0000
F8f	2.00	1.75	1.00	70	2.4500
F11	7.60	4.25	0.45	70	22.6100
F12	14.90	7.00	0.75	60	62.5800
F12a	23.90	9.15	0.85	70	153.0795
F12c	3.00	0.55	0.75	50	0.8250
F12d	1.10	0.40	1.00	50	0.2200
F13	4.85	3.05	1.10	70	10.3548

Texas wild-rice
Plant Stand Attributes for 2000

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
F14	3.65	2.70	1.45	55	5.4203
G1	3.90	1.75	1.50	65	4.4363
G2	3.10	0.75	1.10	70	1.6275
G3	5.60	4.80	0.85	55	14.7840
H2	2.95	1.40	0.60	50	2.0650
H2a	1.50	0.40	0.50	75	0.4500
H2b	1.65	1.00	0.60	70	1.1550
J1	2.95	1.40	0.40	60	2.4780
J1b	1.60	0.60	0.45	75	0.7200
J3.1	1.55	0.20	0.55	85	0.2635
J4	2.00	0.80	0.90	75	1.2000
J6	0.95	0.30	0.50	60	0.1710
J6d	1.00	0.20	0.50	55	0.1100
J8	1.55	1.00	0.20	45	0.6975
J8b	1.20	0.45	0.20	80	0.4320
J11	0.70	0.20	0.20	80	0.1120
J21a	0.80	0.20	0.60	20	0.0320
K2a	1.75	0.40	0.90	75	0.5250
K2aa	1.85	0.43	0.50	80	0.6364
K9.1	2.50	0.35	0.45	60	0.5250
K15	2.00	0.35	0.70	65	0.4550
K15d	3.10	0.25	0.80	45	0.3488
K20	3.60	0.70	0.95	65	1.6380
K27.1	2.50	0.65	0.45	65	1.0563
K27.2	1.60	0.20	0.40	40	0.1280
K38a	1.95	0.60	0.80	75	0.8775
K41d	2.35	1.05	0.80	55	1.3571
K41.1	2.00	0.70	0.70	75	1.0500
K41.4	1.85	0.80	0.35	65	0.9620

Texas wild-rice
Plant Stand Attributes for 2001

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
A0	2.69	1.70	0.40	90	4.1157
A0.2	2.95	1.00	0.65	80	2.3600
A0.3	7.40	2.70	0.40	50	9.9900
A0.3a	2.80	1.75	0.40	75	3.6750
A0.6	1.70	0.50	0.40	50	0.4250
A0.9	1.95	0.70	0.45	80	1.0920
A0.13	3.05	1.55	0.85	75	3.5456
A0.14	3.05	1.60	0.53	60	2.9280
A0.20	3.50	2.00	1.20	60	4.2000
A0.22	2.40	0.85	0.35	85	1.7340
A0.24	1.70	1.40	1.05	75	1.7850
A0.25	2.85	0.80	0.95	65	1.4820
A0.27	4.90	1.95	1.05	75	7.1663
A0.28	1.70	0.20	0.60	60	0.2040
A0.29	2.90	0.90	0.75	65	1.6965
A0.30	4.85	1.60	0.75	75	5.8200
A0.31	2.50	0.95	0.70	70	1.6625
A0.32	1.25	1.15	1.05	60	0.8625
A0.33	3.27	1.20	0.95	70	2.7468
A0.34	1.40	0.55	0.85	75	0.5775
A0.35	2.20	0.65	0.50	50	0.7150
A1	12.80	4.10	0.65	55	28.8640
A1a	1.70	0.80	0.65	75	1.0200
A2	0.70	0.30	0.85	80	0.1680
A2b	1.30	0.30	0.95	30	0.1170
A5.1	5.00	1.85	0.80	65	6.0125
A5.2	3.10	1.30	1.30	80	3.2240
A5.3	1.70	0.50	0.55	65	0.5525
A7	4.50	1.70	0.65	70	5.3550
A7.1	1.55	0.40	0.55	50	0.3100
B1a	8.70	3.00	0.80	45	11.7450
B1.1	5.05	1.35	0.75	70	4.7723
B1f	1.80	0.65	0.80	40	0.4680
B1fb	4.50	0.50	0.85	70	1.5750
B1fc	1.05	0.45	1.20	90	0.4253
B2	13.65	6.85	0.60	65	60.7766
B2h	8.05	2.50	0.60	85	17.1063
B2k	1.70	0.35	0.75	60	0.3570
B3.5	8.10	1.00	0.80	50	4.0500
B4	0.80	0.60	0.95	75	0.3600
B4f	0.80	0.60	0.85	35	0.1680
B6	45.00	12.50	0.60	70	393.7500
B11.5	0.60	0.25	1.20	50	0.0750
B11.5a	3.80	0.45	1.20	70	1.1970
B11.8	8.50	2.00	1.25	50	8.5000
B11.9	2.30	0.90	1.20	70	1.4490
B11.10	2.75	1.00	1.15	40	1.1000
B11.18	3.10	0.50	1.00	80	1.2400
B11.29	1.00	0.55	1.40	80	0.4400
B15.1	23.25	13.90	1.55	40	129.2700
B15.3	2.00	1.80	1.50	75	2.7000

Texas wild-rice
Plant Stand Attributes for 2001

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
B15.4	10.85	3.50	0.95	60	22.7850
B15.7	5.90	1.85	1.20	75	8.1863
B15.7a	1.60	0.55	1.35	60	0.5280
B15.7b	2.30	0.45	1.30	85	0.8798
B15.8	2.55	1.20	1.90	65	1.9890
B15.8a	1.30	0.90	1.60	80	0.9360
B15.10	7.80	2.80	1.95	50	10.9200
B15.10b	2.70	1.80	2.30	75	3.2400
B15.10c	2.60	1.15	1.70	65	1.9435
B15.16	2.60	1.90	1.60	65	3.2110
B15.18	8.45	2.40	1.10	30	6.0840
B15.20	4.50	2.00	1.20	80	7.2000
B15.21	4.85	2.05	1.05	30	2.9828
B15.23	3.95	2.40	0.70	55	5.2140
B15.25	2.90	1.20	1.65	75	2.6100
B15.30	2.75	1.75	1.20	60	2.8875
B15.32	8.20	3.40	0.80	60	16.7280
B15.33	4.00	2.20	1.30	60	5.2800
B15.34	4.90	2.50	1.05	65	7.9625
B15.38	6.60	4.10	0.80	55	14.8830
B15.39	1.60	1.00	1.60	65	1.0400
B15.41	3.05	1.70	1.30	65	3.3703
B15.43	2.40	1.30	1.75	45	1.4040
B15.46	4.00	2.05	1.50	40	3.2800
B15.49	2.35	0.90	0.55	65	1.3748
B15.51	3.20	1.60	1.30	70	3.5840
B15.52	4.00	1.65	1.25	60	3.9600
B15.53	5.00	1.00	1.25	65	3.2500
B15.54	3.75	1.50	1.10	80	4.5000
B15.58	3.70	2.30	0.55	75	6.3825
B15.59	3.25	2.05	1.25	80	5.3300
B15.60	2.45	1.50	1.50	80	2.9400
B15.63	2.25	1.10	1.80	80	1.9800
B15.64	2.20	0.70	1.40	55	0.8470
B15.68	2.80	0.80	1.90	70	1.5680
B15.70	2.50	1.30	1.10	75	2.4375
B15.71	2.10	0.55	2.25	60	0.6930
B15.72	1.35	0.55	2.20	65	0.4826
B15.73	6.90	2.40	3.20	35	5.7960
B15.76	2.50	1.10	1.10	70	1.9250
B15.77	2.15	1.50	1.05	65	2.0963
B15.78	1.05	1.00	1.80	85	89.2500
B15.79	0.80	0.35	3.05	80	0.2240
B15.80	1.00	0.35	3.10	70	0.2450
B15.81	0.60	0.20	3.40	45	0.0540
B15.82	3.50	1.80	0.85	70	4.4100
B15.83	1.40	0.65	2.60	60	0.5460
B15.84	1.45	0.50	2.50	35	0.2538
B15.85	1.50	0.45	2.60	40	0.2700
B15.86	1.20	0.75	1.75	35	0.3150
B15.87	2.50	0.50	2.30	75	0.9375
B15.88	1.25	0.65	0.85	60	0.4875

Texas wild-rice
Plant Stand Attrblutes for 2001

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
B16.7	5.35	1.90	1.00	75	7.6238
B16.8	10.70	4.40	0.95	70	32.9560
B16.12	2.00	1.15	0.75	60	1.3800
B16.15	5.35	1.70	0.90	75	6.8213
B16.17	3.15	0.75	0.80	60	1.4175
B16.17a	5.05	1.90	0.85	50	4.7975
B16.19	4.80	1.90	1.00	70	6.3840
B16.23	5.25	3.10	0.70	40	6.5100
B16.28	4.40	1.50	0.80	60	3.9600
B16.30	2.80	0.85	0.75	80	1.9040
B17.8	6.00	2.30	0.80	70	9.6600
B17.9	4.00	1.30	0.65	85	4.4200
B17.10	3.20	1.35	0.70	70	3.0240
B17.15	1.55	0.35	0.75	70	0.3798
B17.18	1.80	0.60	0.60	60	0.6480
B17.23	3.45	1.25	0.70	70	3.0188
B17.24	4.00	2.00	0.75	80	6.4000
B18	5.40	1.95	0.80	50	5.2650
B18.1	4.00	1.15	0.85	75	3.4500
B18.5	3.35	0.95	1.15	70	2.2278
B18.6	2.00	0.80	1.05	75	1.2000
B19	2.60	0.80	0.95	65	1.3520
B22	3.40	1.55	1.30	70	3.6890
B23	3.05	1.50	0.90	60	2.7450
B23.1	4.20	1.25	1.70	75	3.9375
B24	2.30	1.25	0.70	80	2.3000
B25	3.10	1.20	1.10	65	2.4180
B25.1	1.20	1.00	1.10	70	0.8400
B25.2	3.05	1.30	1.15	70	2.7755
B25.3	2.15	0.50	1.15	50	0.5375
B26	4.20	1.70	1.30	75	5.3550
B27	4.10	1.45	1.50	75	4.4588
B27.1	3.65	1.35	0.70	75	3.6956
B27.2	1.10	0.15	0.85	30	0.0495
B28	3.10	1.10	0.80	70	2.3870
B29	3.20	0.90	0.70	80	2.3040
B29.1	2.60	1.20	1.60	55	1.7160
B30	2.40	0.95	0.60	60	1.3680
B31	2.25	0.80	0.60	55	0.9900
C1	6.60	3.10	1.10	75	15.3450
C2	20.70	8.45	1.15	40	69.9660
C2.1	5.40	1.75	1.65	50	4.7250
C3.1	2.20	1.25	1.60	65	1.7875
C5	48.00	8.45	0.85	60	243.3600
C5c	8.00	2.50	0.70	35	7.0000
C5f	1.70	0.50	0.80	70	0.5950
C5g	0.50	0.25	0.75	75	0.0938
C5.1	5.10	4.45	0.75	70	15.8865
C5.5	1.85	1.00	1.80	70	1.2950
C5.6	2.40	0.55	0.55	20	0.2640
C5.7	2.75	0.60	0.95	60	0.9900

Texas wild-rice
Plant Stand Attributes for 2001

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
C6	14.30	3.60	0.55	45	23.1660
C9	2.85	2.30	0.70	75	4.9163
C9b	3.45	1.45	0.75	75	3.7519
C9c	3.50	1.75	0.60	65	3.9813
C9d	2.70	0.85	0.70	75	1.7213
C10	1.60	0.80	2.00	25	0.3200
E1c	1.50	0.30	0.55	65	0.2925
E2	3.40	2.40	0.75	50	4.0800
E2b	1.40	0.90	0.75	60	0.7560
E2f	0.70	0.25	0.65	75	0.1313
E3	0.80	0.40	1.10	50	0.1600
E6	1.00	0.50	0.95	75	0.3750
E6.11	1.00	0.40	0.20	60	0.2400
E8	2.80	1.40	0.40	65	2.5480
E8c	0.90	0.40	0.40	40	0.1440
E8d	2.00	0.95	0.40	80	1.5200
E8.2	0.40	0.10	0.50	75	0.0300
E8.3	1.10	0.45	0.45	20	0.0990
E9	2.40	1.60	0.95	65	2.4960
E9.1	1.55	0.90	1.05	60	0.8370
E11	2.60	1.30	1.10	55	1.8590
E11c	0.35	0.25	1.00	50	0.0438
E11e	1.20	0.90	1.00	80	0.8640
E14	4.14	1.50	0.65	55	3.4155
E14b	1.00	0.45	0.70	20	0.0900
F2	1.40	0.75	0.70	50	0.5250
F4.4	2.20	0.65	1.10	80	1.1440
F4.6	2.50	0.50	1.10	80	1.0000
F5	2.45	0.75	1.45	70	1.2863
F6	19.80	8.40	0.80	50	83.1600
F6e	2.40	1.10	1.05	80	2.1120
F7	4.00	3.80	1.20	60	9.1200
F8	8.80	3.70	0.95	50	16.2800
F8g	3.40	1.35	1.10	60	2.7540
F11	9.60	4.60	0.75	75	33.1200
F12	36.10	8.45	0.80	65	198.2793
F12c	2.10	1.70	0.75	75	2.6775
F13	3.90	2.35	1.00	65	5.9573
F14	4.00	1.00	1.35	50	2.0000
G0	2.50	0.80	1.15	60	1.2000
G1b	1.00	0.25	1.45	25	0.0625
G3	3.35	2.00	0.85	50	3.3500
G3a	0.50	0.02	0.80	90	0.0090
G3b	0.75	0.10	0.80	70	0.0525
G3c	0.75	0.10	0.75	70	0.0525
H2	4.50	1.45	0.65	15	0.9788
J4	2.10	0.80	1.10	75	1.2600

Texas wild-rice
Plant Stand Attributes for 2001

Stand	Length (m)	Width (m)	Depth (m)	Percent Cover	Aerial Coverage (m ²)
J6	1.10	0.25	0.60	75	0.2063
J6d	0.55	0.20	0.55	60	0.0660
J8	2.75	2.15	0.45	70	4.1388
J11	1.10	0.50	0.50	60	0.3300
J18.1	2.10	0.40	0.55	80	0.6720
J21a	0.90	0.10	0.90	35	0.0315
K2a	1.90	0.45	1.05	85	0.7268
K2aa	2.45	0.60	1.05	80	1.1760
K9.1	2.30	0.50	0.70	70	0.8050
K15	1.50	0.25	0.90	76	0.2850
K15d	1.50	0.40	0.90	65	0.3900
K20	2.40	0.65	1.25	85	1.3260
K27.1	3.20	0.60	0.80	75	1.4400
K27.2	2.25	0.50	0.70	60	0.6750
K38a	1.00	0.45	1.00	70	0.3150
K41d	1.45	0.35	0.70	30	0.1523
K41.1	2.00	0.50	0.90	55	0.5500
K41.4	2.90	0.65	0.60	60	1.1310

APPENDIX 4

Texas wild-rice
Stand Changes by River Segment
1989-2001

NEW	REAPPEARED	COALESCED	FRAGMENTED	DISAPPEARED	TOTAL STANDS
A segment					
1989 A1, A2, A3					3
1990 A4					4
1991					4
1992 A5				A4	4
1993	A4				5
1994 A0			A3, A3a, A3b	A4, A5	6
1995 A3.1, A6			A2, A2a		9
1996 A0.1, A3.2, A7		A2 & A2a		A3b, A3.1, A6	8
1997 A0.2, A0.3, A0.4, A0.5, A0.6, A0.7, A0.8, A0.9, A0.10, A0.11, A0.12, A0.13, A0.14, A0.15, A0.16, A0.17, A0.18, A0.19, A0.20, A0.21, A5.1				A3.2	28
1998 A0.22, A0.23, A0.24, A0.25		A0.3 & A0.4 A0.9 & A0.11 A0.16, A0.17, A0.18		A0.5, A0.7, A0.19	25
1999 A0.26, A0.27, A0.28, A0.29, A0.30, A0.31, A0.32, A5.2, A5.3, A7.1	A0.5	A0.6 & A0.12	A0.3 & A0.3a	A0.1, A0.2, A0.8, A0.10, A0.21, A0.23, A3a	29
2000 A0.33, A0.34	A0.2		A0.3 & A0.3b	A0.16, A0.26	31
2001 A0.35		A0.3, A0.3b, A.05	A1 & A1a; A2 & A2b	A0.15, A3	30
B segment					
1989 B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B11, B12, B13, B14, B15					15
1990 B2.1, B2.2, B3.1, B11.1, B16, B17, B18		B5 & B6		B4, B9, B12, B13	17
1991 B15.1, B16.1, B16.2, B17.1, B17.2, B17.3, B17.4	B4, B9, B12, B13	B10, B9, B12	B2.1 & B2.1a	B14	26
1992 B10.1, B11.2, B15.2, B15.3		B2, B2.1, B2.1a	B8 & B8a	B16.1, B17, B17.1, B17.2, B17.3, B17.4, B18	22

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NEW	REAPPEARED	COALESCED	FRAGMENTED	DISAPPEARED	TOTAL STANDS
1993 B10.2, B10.3, B10.4, B10.5, B10.6, B11.3, B11.4, B15.4, B15.5, B15.6, B15.7, B15.8, B15.9, B15.10, B16.3, B16.4, B16.5, B16.6, B16.7, B16.8, B16.9, B16.10, B17.5, B19	B18	B10 & B13	B1 & B1a B7 & B7a B10, B10a, B10b, B10c	B8, B11.2, B16, B16.2	47
1994 B3.2, B3.3, B3.4, B3.5, B3.6, B7.1, B11.5, B11.6, B11.7, B11.8, B11.9, B11.10, B11.11, B11.12, B11.13, B11.14, B15.11, B15.12, B15.13, B15.14, B15.15, B15.16, B15.17, B15.18, B15.19, B15.20, B15.21, B15.22, B15.23, B16.11, B17.6, B17.7, B17.8, B17.9, B17.10, B18.1	B11.2, B14	B5 & B2.2 B10, B10a, B10b B10.4 & B10.5	B1, B1b, B1c, B1d, B1e, B1f B3, B3a, B3b	B11.4, B15.5, B15.6, B15.8, B16.3, B16.4, B16.5, B16.6,	80
1995 B2.3, B10.7, B11.15, B11.16, B11.17, B11.18, B11.19, B11.20, B15.24, B15.25, B15.26, B15.27, B16.12, B16.13, B16.14, B16.15, B17.11	B15.8	B11 & B11.1 B15.18, B15.17, B15.19	B1, B1g, B1h, B1i, B1j B2, B2a, B2b B3, B3c, B3d, B3e, B3f, B3g, B3h, B3i, B3j B3.1, B3.1a, B3.1b, B3.1c, B3.1d B4, B4a B11.8 & B11.8a	B1, B1b, B1e, B3a, B3.2, B11.3, B11.10, B11.1, B11.13, B15.9, B16.11, B17.5, B17.10	102
1996 B10.8, B10.9, B11.21, B11.22, B11.23, B11.24, B11.25, B11.26, B11.27, B11.28, B15.28, B15.29, B15.30, B15.31, B15.32, B15.33, B15.34, B16.16, B16.17, B16.18, B17.12, B17.13, B17.14, B20, B21	B17.10	B1c & B1i; B1d & B1j; B3.1 & B3.1a B3b & B3j; B3.5 & B3.6 B3.1d & B3.3 B10.6 & B10.7 B11.7, B11.8, B11.8a; B11.19, B11.14, B11.20, B15.11, B15.13 B15.7 & B15.22	B11 & B1fa B3.4 & B3.4a B10, B10a, B10d, B10e B15.4 & B15.4a	B1g, B2.3, B3, B3c, B3d, B3e, B3f, B3g, B3h, B3i, B3.1c, B4a, B10.1, B11.2, B11.12, B11.16, B11.18, B15.24, B15.26, B16.10, B16.13, B16.14, B17.6, B18.1	96
1997 B1.1, B11.29, B15.35,	B3, B11.1, B11.3, B11.8	B2 & B2b	B1f & B1fb; B3b & B3ba	B1d, B3.1b, B3.4a	99

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	NEW	REAPPEARED	COALESCED	FRAGMENTED	DISAPPEARED	TOTAL STANDS
	B15.36, B15.37, B15.38, B15.39, B16.19, B16.20, B16.21, B22, B23, B24, B25, B26, B27, B28	B16.10, B16.13, B18.1,	B4 & B3.1 B7, B8a, B10.2, B10.4 B10, B10.6, B10a, B10d, B10e B11.26 & B11.27	B3.5 & B3.6 B4, B4b, B4c B11.19, B11.19a, B11.19b, B11.19c, B15.11	B11.5, B11.21, B11.22, B11.23, B11.25, B15.12, B15.28, B15.8, B15.27, B16.18, B16.9, B17.7, B17.11, B17.12, B17.13, B20, B21 B11.17, B11.24, B15.31, B15.39, B16.20	
1998	B15.40, B15.41, B15.42, B15.43, B15.44, B15.45, B15.46, B16.22, B16.23, B17.15, B17.16, B17.17, B17.18	B10.6, B11.5, B15.6, B11.10, B15.39	B1f, B1fa, B1fb B2, B2a, B3, B3.1d, B5, B7, B7a, B8, B10.3, B10.9, B11 B3.5 & B3.6 B4b & B4c B11.19, B11.19b, B11.19c B11.28, B11.15, B11.3 B15.35 & B15.36	B7.1 & B7.1a B11.19 & B11.19d B15.18 & B15.18a B16.10 & B16.10a B16.17 & B16.17a		98
1999	B14.1, B15.47, B15.48, B15.49, B15.50, B15.51, B15.52, B15.53, B15.54, B15.55, B15.56, B15.57, B15.58, B15.59, B15.60, B15.61, B15.62, B15.63, B15.64, B15.65, B15.66, B16.24, B16.25, B16.26, B16.27, B17.19, B17.20, B17.21, B17.22, B17.23, B17.24, B18.2, B21.1, B21.2, B27.1, B29, B30	B2.2, B5, B6, B7, B7a, B11.10, B15.39	B7, B3b, B3ba, B3.4, B7.1, B7.1a, B10c, B10.6, B10.8, B11.1 B11.5, B11.6, B11.7 B11.19a, B15.12, B15.14, B15.40	B2, B2a, B2c, B2d, B2e, B2i, B2g B4, B4d, B4e B5 & B5a B11.19a, B11.19aa, B11.19ab B15, B15a, B15b B15.4 & B15.4b B15.4a & B15.4aa B15.10 & B15.10a B16.17 & B16.17b	B4, B11.9, B11.19, B15.6, B15.42, B15.44, B15.45, B16.10a, B16.22, B17.6, B17.15, B17.16, B17.17	132
2000	B3.7, B10.10, B10.11, B15.67, B15.68, B15.69, B15.70, B15.71, B15.72, B15.73, B15.74, B15.75, B16.28, B16.29, B17.25, B18.3, B18.4	B4, B10.8, B10.9, B11.9 B11.17, B11.24, B15.31	B1a & B1c B2, B2a, B2c, B2d, B2e, B2f, & B2g B6, B2.2, B5a, B7a B7, B14, B14.1, B15, B15a, & B15b B15.4, B15.4a, B15.4b, & B15.50 B15.10 & B15.10a B15.38, B15.55, B15.56, & B15.57	B2, B2b, B2h, B2i, B2j B6 & B6a B11.26, B11.26a, B11.26b B11.19a, B11.19ac, B11.19ad, & B11.19ae B15.4 & B15.4c B15.7 & B15.7a B15.18a & B15.18aa B15.30 & B15.30a B15.35, B15.35a, B15.35b & B15.10b	B11.10, B11.19d, B11.28, B15.65, B15.66, B16.10, B16.13, B16.16, B16.17, B16.21, B16.24, B16.25, B16.26, B16.27, B17.14, B17.18, B17.19, B17.20, B17.21, B17.22, B17.23, B17.24, B18.2, B24	127

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NEW	REAPPEARED	COALESCED	FRAGMENTED	DISAPPEARED	TOTAL STANDS
2001	B11.29, B15.76, B15.77, B11.10, B11.18, B15.8, B15.78, B15.79, B15.80, B15.20, B16.17, B17.23, B15.81, B15.82, B15.83, B17.24, B24, B15.84, B15.85, B15.86, B15.87, B15.88, B16.30, B17.15, B17.18, B18.5, B18.6, B23.1, B25.1, B25.2, B25.3, B27.2, B29.1, B31	B15.41 & B15.20 B1a & B1h B2h, B2i, B2j B6, B4b, B4d, B4e, B5, & B6a, B7, B10.8, & B10.9 B15.1, B11.17, & B11.19aa, B11.19ab, & B11.19ad, B11.19ae, & B11.24, B11.26, & B11.29, B15.15, & B15.29, B15.30a, & B15.35, B15.35a, & B15.35b, B15.47, & B15.48, B15.67 B15.4, B15.4aa, B15.4c B15.73 & B15.75 B16.17a, B16.17b, B16.17c	B16.17 & B16.17c B1f, B1fb, B1lc B2 & B2k B4 & B4f B11.5 & B11.5a B15.8 & B15.8a B15.10 & B15.10c B15.17 & B15.17b	B2b, B3.7, B10.10, B10.11, B11.19a, B11.19ac, B11.26a, B11.26b, B15.2, B15.11, B15.18a, B15.18aa, B15.31, B15.61, B15.62, B15.69, B15.74, B16.18, B16.29, B17.25, B18.3, B18.4, B21.1, B21.2,	112
C segment					
1989	C1, C2, C3, C4, C5, C6, C7, C8, C9				9
1990	C0, C5.1, C5.2, C5.3, C6.1, C7.1		C5 & C5a; C6 & C6a; C9 & C9a	C3	17
1991		C5 & C5a; C6 & C6a		C0, C4	13
1992				C1, C5.2, C5.3, C9a	9
1993	C3.1		C5 & C5b; C6 & C6b		13
1994	C5.4, C5.5			C6.1	14
1995	C6.1	C5 & C5b; C6 & C6b C6, C6c, C6d	C2 & C2a; C6, C6c, C6d C5 & C5b; C6 & C6b	C5.4	15
1996		C6 & C6b C6 & C6f	C6 & C6f; C9, C9b, C9c, C9d C6, C6b, C6g, C6h	C8 C6.1, C7.1 C7	14 15 16
1997					
1998					
1999	C1.1	C5 & C5b; C6, C6g, C6h			
2000	C5.6, C5.7, C10	C6 & C6b	C5, C5c, C5d, C5e C9, C9e	C1.1	19
2001		C5, C5d, C5e; C9, C9e	C5, C5f, C5g		18
E segment					

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NEW	REAPPEARED	COALEDSED	FRAGMENTED	DISAPPEARED	TOTAL STANDS
1989 E1, E2, E3, E4, E5, E6, E7, E7a, E8, E8a, E9, E10, E11, E12, E13, E14					16
1990 E9.1		E3 & E4 E7 & E7a E11 & E12			15
1991				E6, E9	12
1992 E11.1, E12.1				E14	15
1993 E6.1, E6.2, E6.3, E6.4, E6.5, E6.6	E14	E9.1 & E10	E11, E11a, E11b	E8a, E11a, E11b, E11.1	17
1994 E7.1, E7.2, E10.1	E8a, E9	E6.3 & E6.4	E1, E1a, E1b E11, E11c, E11d E1, E1c	E6.1, E6.5, E12.1	22
1995 E6.7, E7.3			E2, E2a, E2b, E2c, E2d E8, E8b, E8c, E8d, E8e	E6.2, E13	31
1996 E6.8, E8.1	E6	E1 & E1c E2, E2a, E2b, E2c, E2d E8d & E8e	E11, E11e	E6.7, E7.3, E10.1	26
1997 E0, E6.9, E6.10		E8 & E8c, E8d E9 & E9.1 E11 & E11c		E1a, E6.3, E7.2	22
1998 E7.4, E14.1	E1a E9.1 (from E9)		E1, E1c E2, E2a, E2b, E2c, E2d, E2e E8, E8c, E8d, E8f E11, E11c	E0, E6.10, E7, E11e	32
1999 E12.2		E2, E2a, E2c, E2d, E2e E8 & E8c	E6.3, E6.3a, E6.3b E14, E14a	E1, E1a, E1b, E1c, E5, E6.6, E6.9, E7.1, E7.4, E8b, E8f, E8a, E8.1, E11d, E14.1	16
2000 E2.1	E8c			E6.3a, E6.3b, E12.2, E14a	14
2001 E6.11, E8.2, E8.3	E1c		E2, E2f E11, E11e E14, E14b	E2.1, E6.3	19
F Segment					
1989 F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11,					12

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NEW	REAPPEARED	COALESCED	FRAGMENTED	DISAPPEARED	TOTAL STANDS
F12					
1990 F13, F14, F15			F8 & F8a	F1	15
1991 F5.1, F5.2, F8.1		F8 & F8a		F3, F5	15
1992 F2.1, F4.1, F4.2, F9.1	F3, F5		F6, F6a, F6b F8, F8b, F8c	F7, F8.1, F9, F10	21
1993 F4.3, F4.4	F7	F6, F6a, F6b F8, F8b, F8c			20
1994 F4.5		F5.1 & F5.2	F2 & F2a; F4.4 & F4.4a; F8 & F8a	F2.1, F4.1, F4.2, F4.3	19
1995 F2.2		F2 & F2a; F4.4 & F4.4a		F4.5	17
1996				F2.2, F9.1	15
1997	F2.1, F2.2			F8d	16
1998 F16			F6 & F6c		21
1999 F11.1		F6 & F6c	F8, F8b, F8e, F8f F8, F8d, F8e; F8, F8g; F12, F12a, F12b		17
2000		F8, F8e, F8g F14 & F15	F8 & F8f F12, F12c, F12d	F6d, F11.1, F12b	14
2001 F4.6	F4.4	F8 & F8f; F12 & F12a	F8 & F8g	F12d	14
G segment					
1989 G1, G2, G3					3
1990 no change					3
1991 no change					
1992 no change					
1993 no change					
1994 G4					4
1995 no change					4
1996				G4	3
1997 no change					
1998 no change					
1999			G1 & G1a; G2 & G2a		5
2000		G1 & G1a; G2 & G2a			3
2001 G0			G1 & G1b G3, G3a, G3b, G3c	G2	7
H segment					
1989 H1, H2					1
1990					1

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NEW	REAPPEARED	COALESCED	FRAGMENTED	DISAPPEARED	TOTAL STANDS
1991 H3, H4					4
1992			H2 & H2a; H4 & H4a	H1	5
1993	H1	H2 & H2a	H2 & H2b	H4, H4a	4
1994 H0			H2, H2a, H2b	H1, H3	4
1995				H0, H2b	2
1996			H2 & H2c	H2a	2
1997			H2, H2d, H2e		4
1998 H5			H2, H2f, H2g		5
1999					6
2000		H2, H2f, H2g; H2d & H2e			3
2001		H2, H2c, H2d			1
I segment					
1989 I1, I2, I3, I4, I5, I6, I7					7
1990 I8			I4 & I4a	I2, I3, I4a, I7	9
1991				I1, I5, I6, I8	5
1992					1
1993 I8				I8	2
1994					1
1995 no change					1
1996 no change					1
1997				I4	0
X segment: X1					
1989 X1					1
1990					0
J segment					
1989 J1, J2, J3, J4, J5, J6, J7, J8, J9, J10, J11, J12, J13, J14, J15, J16, J17, J18, J19, J20, J21, J22, J23, J24, J25, J26, J27					27
1990		J6 & J7; J11 & J10, J17 & J19	J21 & J21a	J2, J22	23
1991 J28				J23, J24, J25	21
1992			J6 & J6a	J3, J27	20
1993 J3	J27		J9 & J9a, J18 & J18a	J5, J6a, J8, J17, J28	19

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NEW	REAPPEARED	COALESCED	FRAGMENTED	DISAPPEARED	TOTAL STANDS
1994	J17			J15	19
1995	J8, J10, J15, J19		J1 & J1a; J4, J4a, & J4b; J6 & J6b; J8 & J8a; J11, J11a, J11b, J11c; J13 & J13a; J20 & J20a J4, J4c, & J4d; J6 & J6c	J3, J9, J9a, J12, J18a	28
1996	J3, J12, J25				
1997 J7.2	J13a, J18a	J4, J4c, & J4d; J11 & J11c	J1 & J1b; J6, J6d, & J6e	J3, J4c, J4d, J8a, J10, J12, J17, J19, J20a	20
1998 J7.1	J10	J1 & J1b; J13 & J13a; J25 & J26			19
1999 J8.1, J8.2	J1b		J6 & J6f	J6c, J6e, J7.1, J7.2, J10, J11, J16, J18, J18a, J20, J21, J25	11
2000 J3.1	J11		J8 & J8b	J6f, J8.1, J8.2, J13	10
2001 J18.1		J8 & J8b		J1, J1b, J3.1	7
K segment					
1989	K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11, K12, K13, K14, K15, K16, K17, K18, K19, K20, K21, K22, K23, K24, K25, K26, K27, K28, K29, K30, K31, K32, K33, K34, K35, K36, K37, K38, K39, K40, K41, K42, K43, K44, K45				45
1990	K10.1, K21.1, K28.1, K36.1, K36.2, K36.3, K41.1, K41.2, K47		K29 & K29a; K37 & K37a	K18, K19, K27, K36	52
1991	K6.1, K11.1, K47.1	K18	K4 & K5	K21, K21.1, K22, K24, K25, K28, K28a, K29a, K31, K41.2, K47	46
1992	K4.1, K26.1	K41.2	K35 & K35a	K12, K13, K16, K18, K47.1	43
1993	K7.1, K10.2, K10.3	K12, K16, K18, K19	K8 & K9	K9, K4.1, K6, K6.1,	41

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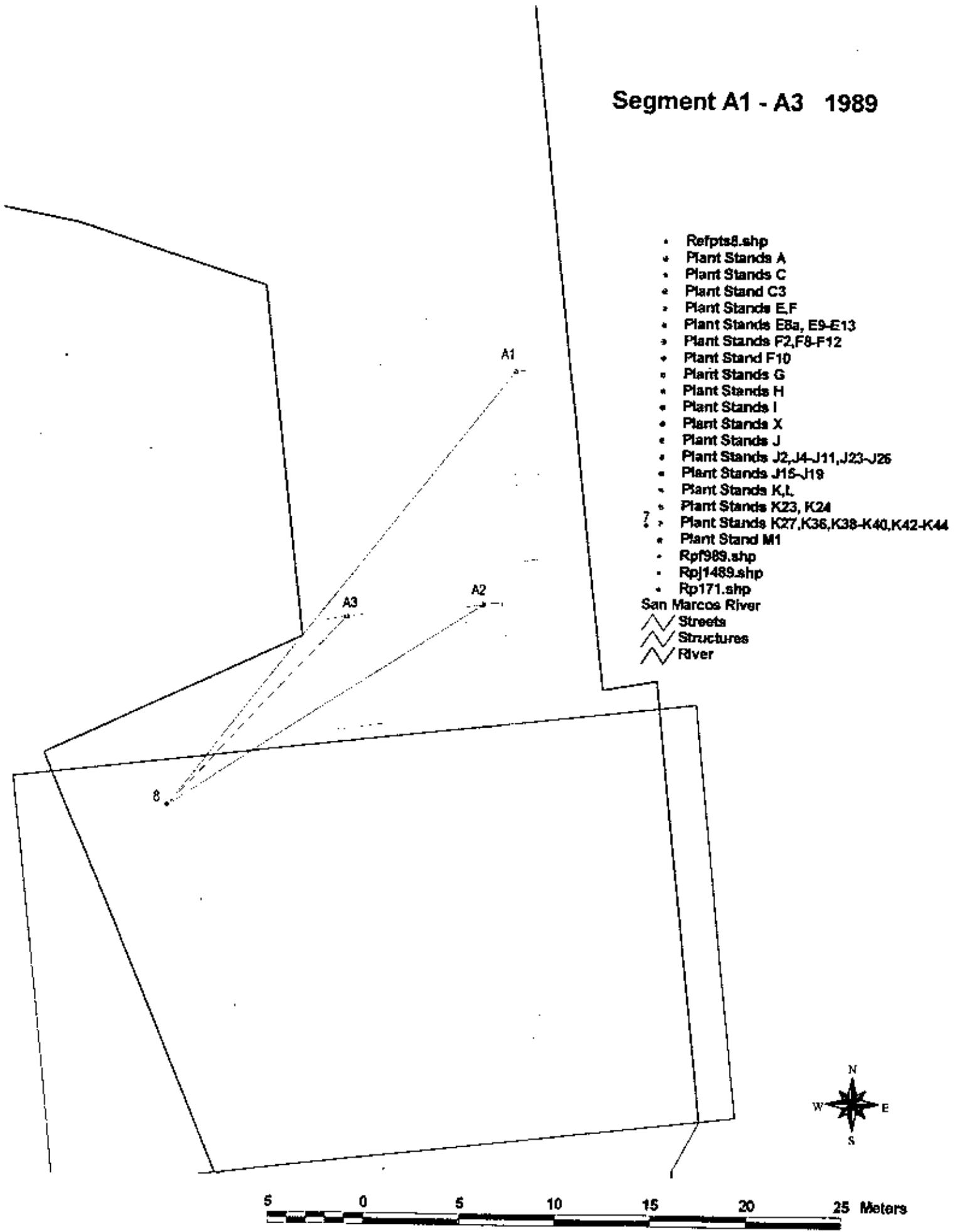
NEW	REAPPEARED	COALESCED	FRAGMENTED	DISAPPEARED	TOTAL STANDS
1994 K6.2, K9.1, K9.2, K11.2, K47.2	K10.1, K41.2		K35, K35a, K35b	K10.1, K11.1, K23, K26, K26.1, K32, K33, K41.2, K11, K14, K16, K35b, K37a	44
1995 K18.1, K48	K14, K16	K7 & K7.1; K15 & K15a	K8 & K9 K10.3, K10.3a, & K10.3b K17, K17a, K17b; K37, K37b, K37c; K41 & K41a; K42, K42a, K42b, K42c	K10.3b, K12, K29b, K35a, K39, K40, K47.2	49
1996 K2.1	K10.3b, K37a, K39, K40	K37 & K37b K41 & K41a K42, K42a, K42b	K10.3 & K10.3c; K38 & K38a; K41 & K41b; K41.1, K41.1a, K41.1b	K6.2, K9, K10.3a, K11.2, K16, K17b, K30, K37c	48
1997	K37c	K8 & K9.2; K15 & K15a; K18 & K17; K41 & K41b;	K41, K41a, K41c	K1, K2.1, K10.1, K10.3, K10.3c, K17a, K29, K36.1, K37a, K39, K40, K41.1a, K41.1b, K41.2, K42c, K48	31
1998 K18.2, K18.3, K20.1, K41.3	K9.2, K10.1, K10.3, K10.3c, K37a, K41.1b, K41.2	K41, K41a, K41c	K7, K7a, K7b; K15, K15a, K15b, K15c; K36.3 & K36.3a; K41 & K41b K2a & K2aa		47
1999 K13.1, K41.4				K2, K4, K7, K7a, K7b, K8, K9.2, K10, K10.1, K10.3, K10.3b, K10.3c K14, K15a, K15b, K15c, K18, K18.1, K18.2, K18.3, K19, K20.1 K34, K35, K36.2, K36.3, K36.3a, K37, K37a, K37c, K38, K41, K41b, K41.1, K41.1b, K41.2, K41.3, K42, K43, K44, K45 K10.2, K13.1	9
2000 K15d, K27.1, K27.2, K41d	K41.1				12
2001 no change					12
L segment					
1989 L1					1
1990 no change					1
1991 no change					

Texas wild-rice
Stand Changes by River Segment
1989-2001

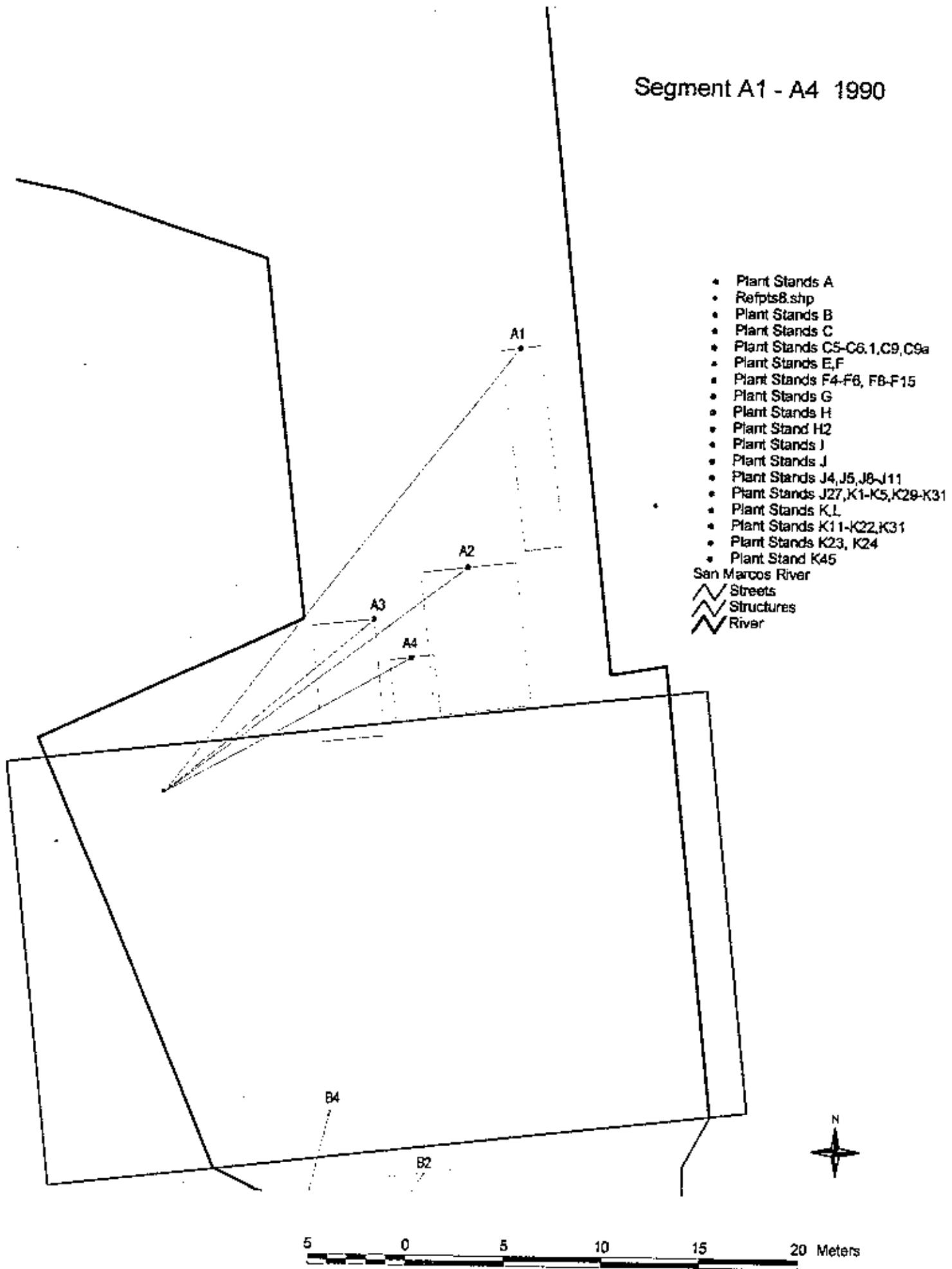
NEW	REAPPEARED	COALESCED	FRAGMENTED	DISAPPEARED	TOTAL STANDS
1992 no change					
1993 no change					
1994 L0					2
1995					1
1996 L0.1	L0			L1	2
1997		L0 & L0.1			1
1998				L0	0
M segment					
1989 M1					-1
1990					0

APPENDIX 5

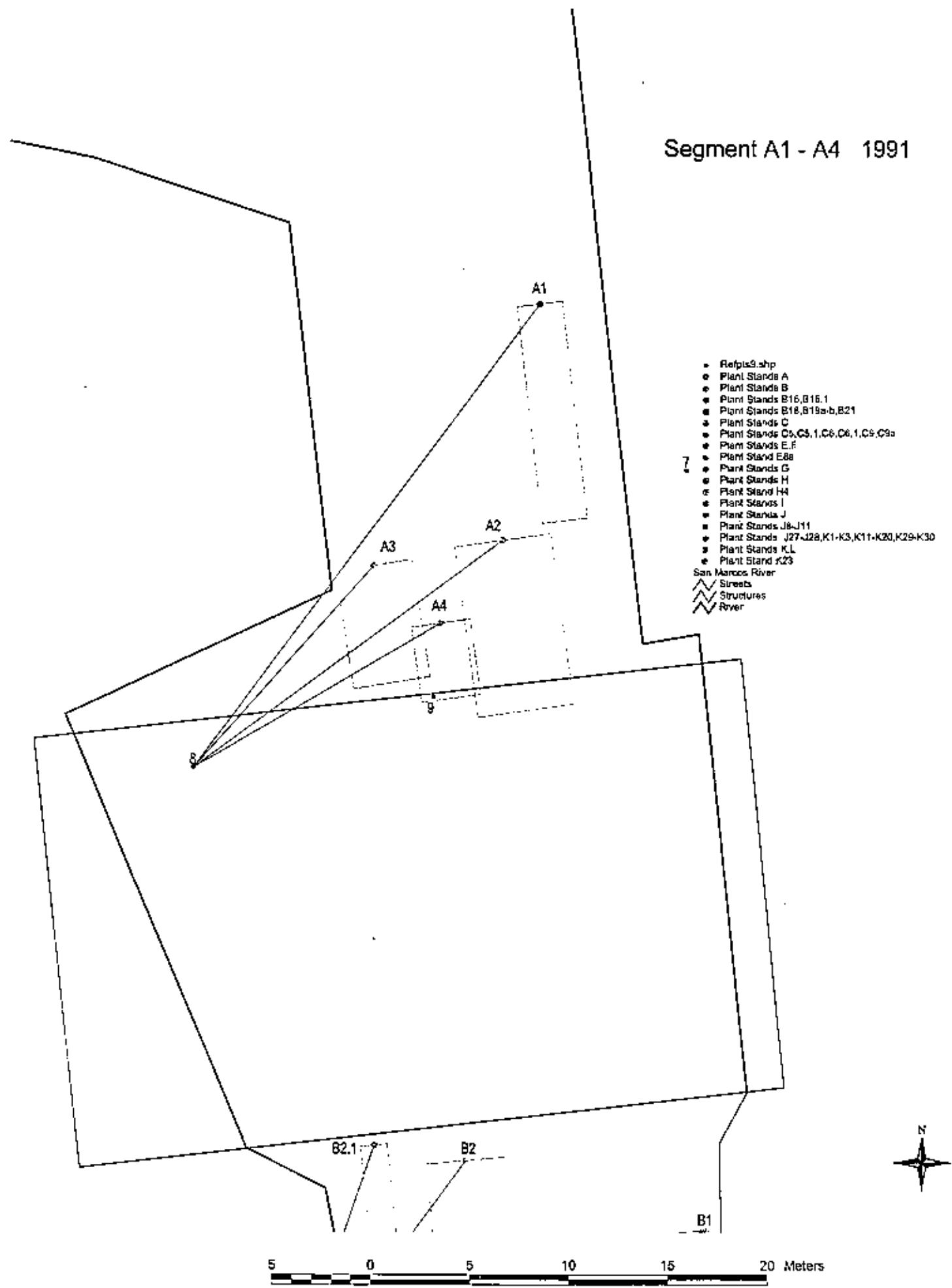
Segment A1 - A3 1989



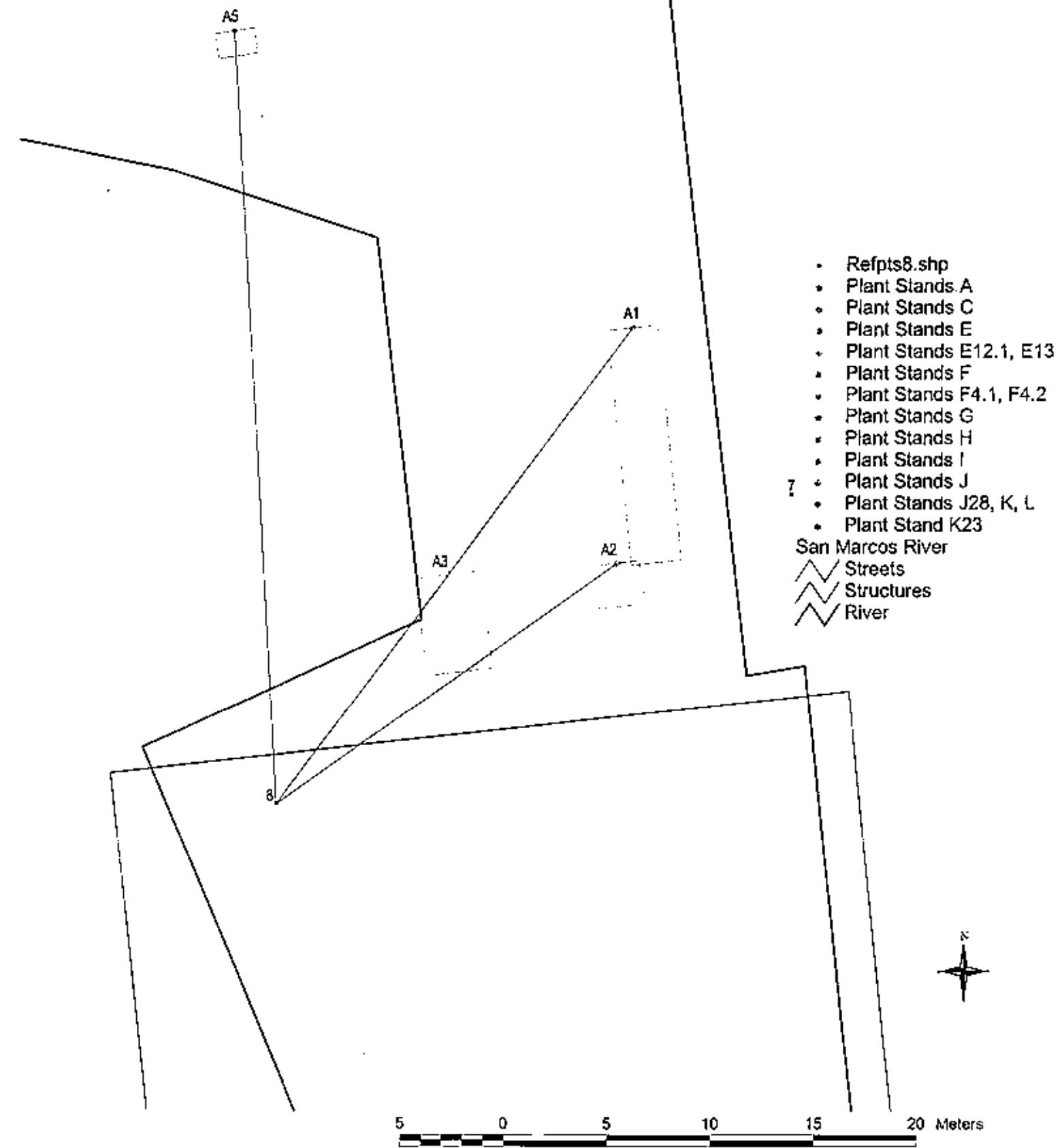
Segment A1 - A4 1990



Segment A1 - A4 1991



Segments A1 - A 5 1992



Segments A1 - A5 1993

- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands K37-K44
- Plant Stands K,L
- Plant Stands J
- Plant Stands I
- Plant Stands - G,H

San Marcos River

- ~~~~ Streets
- ~~~~ Structures
- ~~~~ River



5 0 5 10 15 Meters

A5

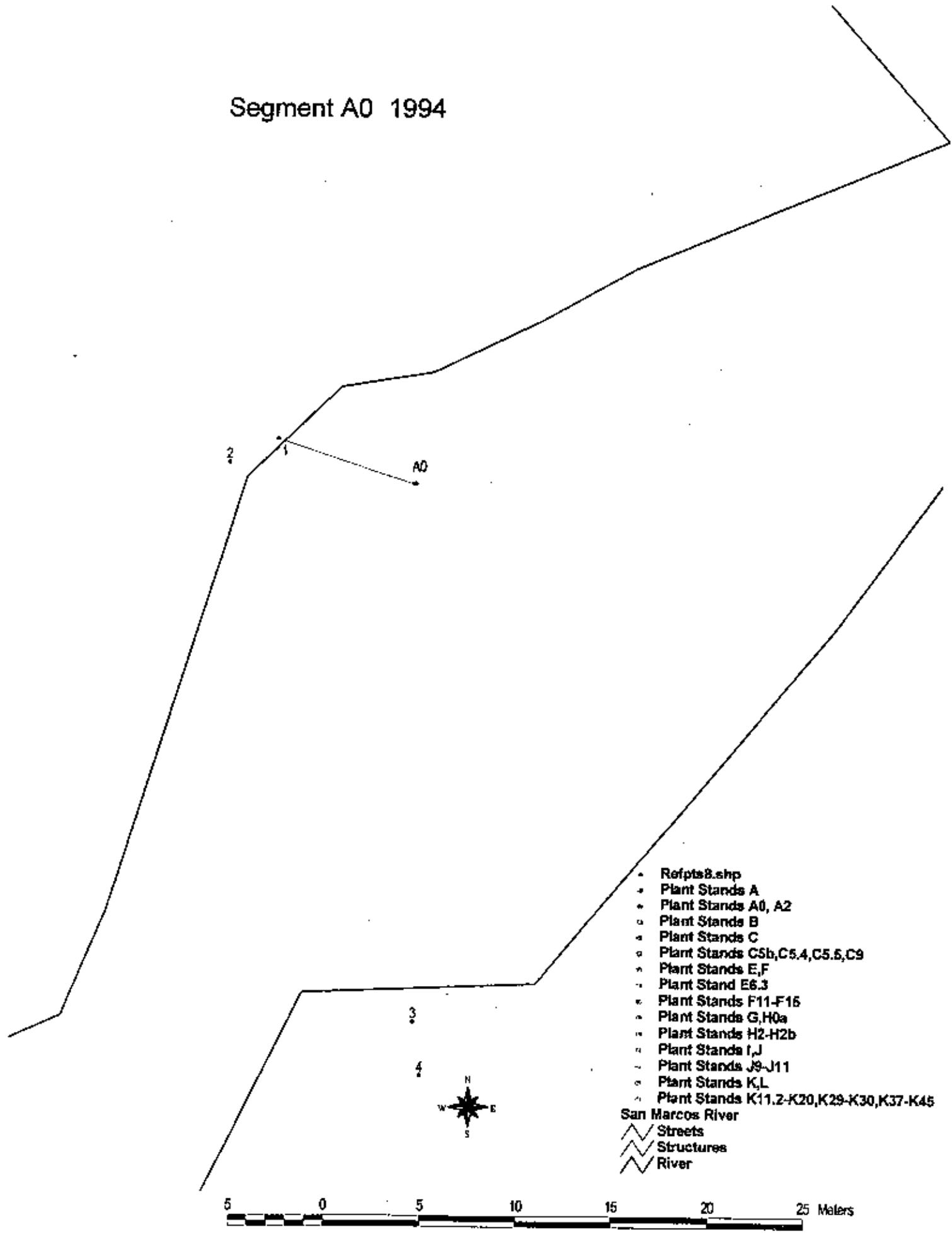
A1

A3

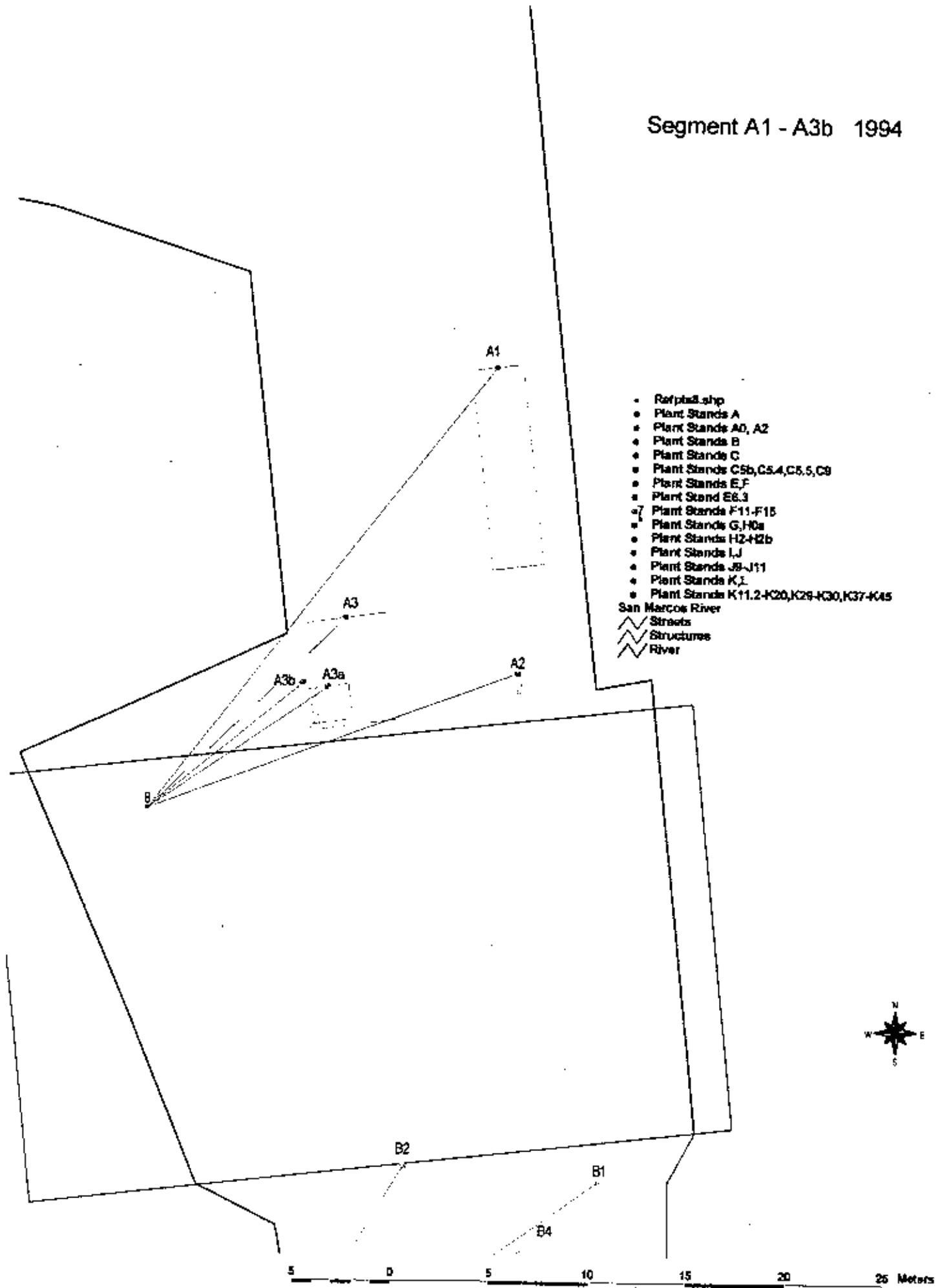
A2

A4

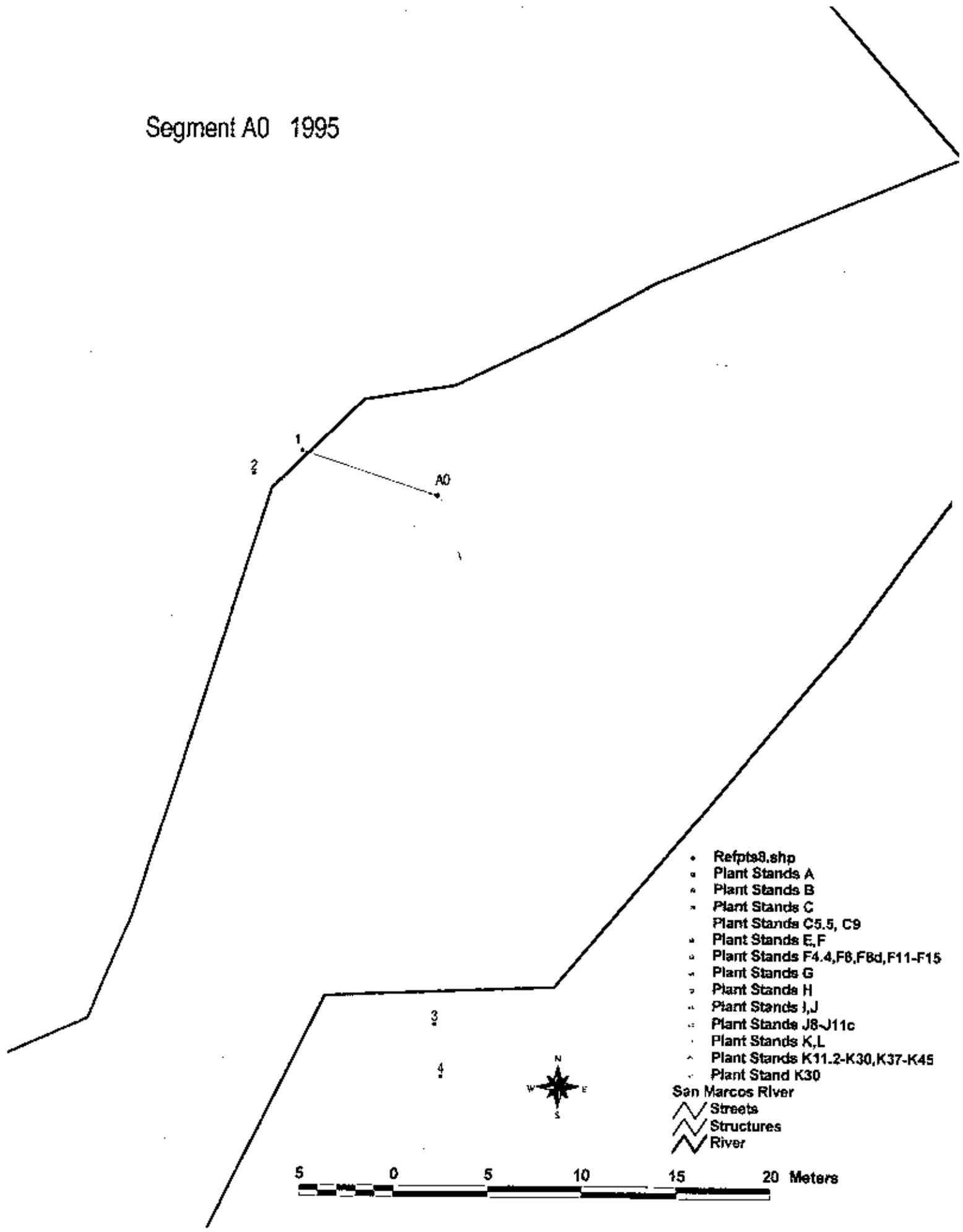
Segment A0 1994



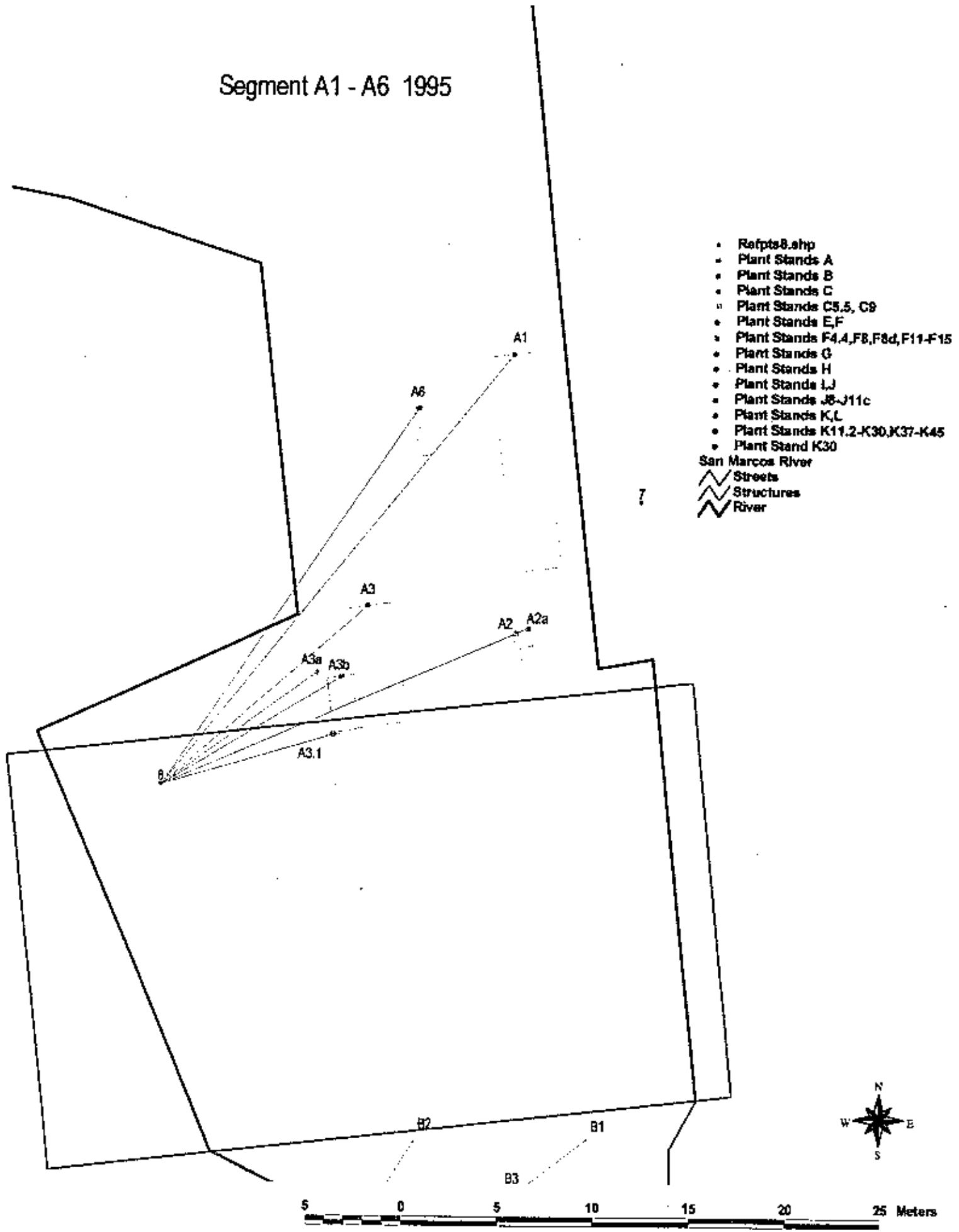
Segment A1 - A3b 1994



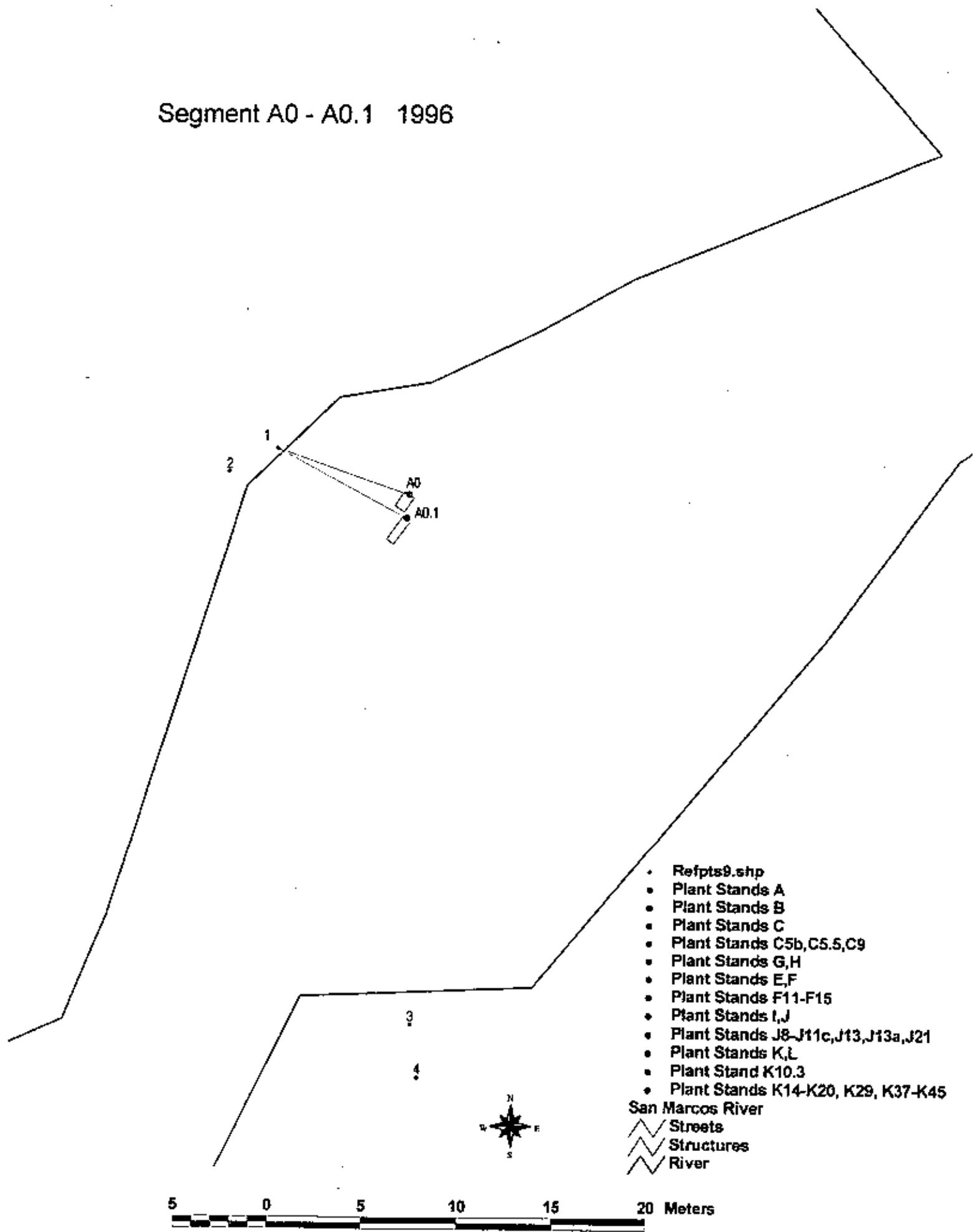
Segment A0 1995



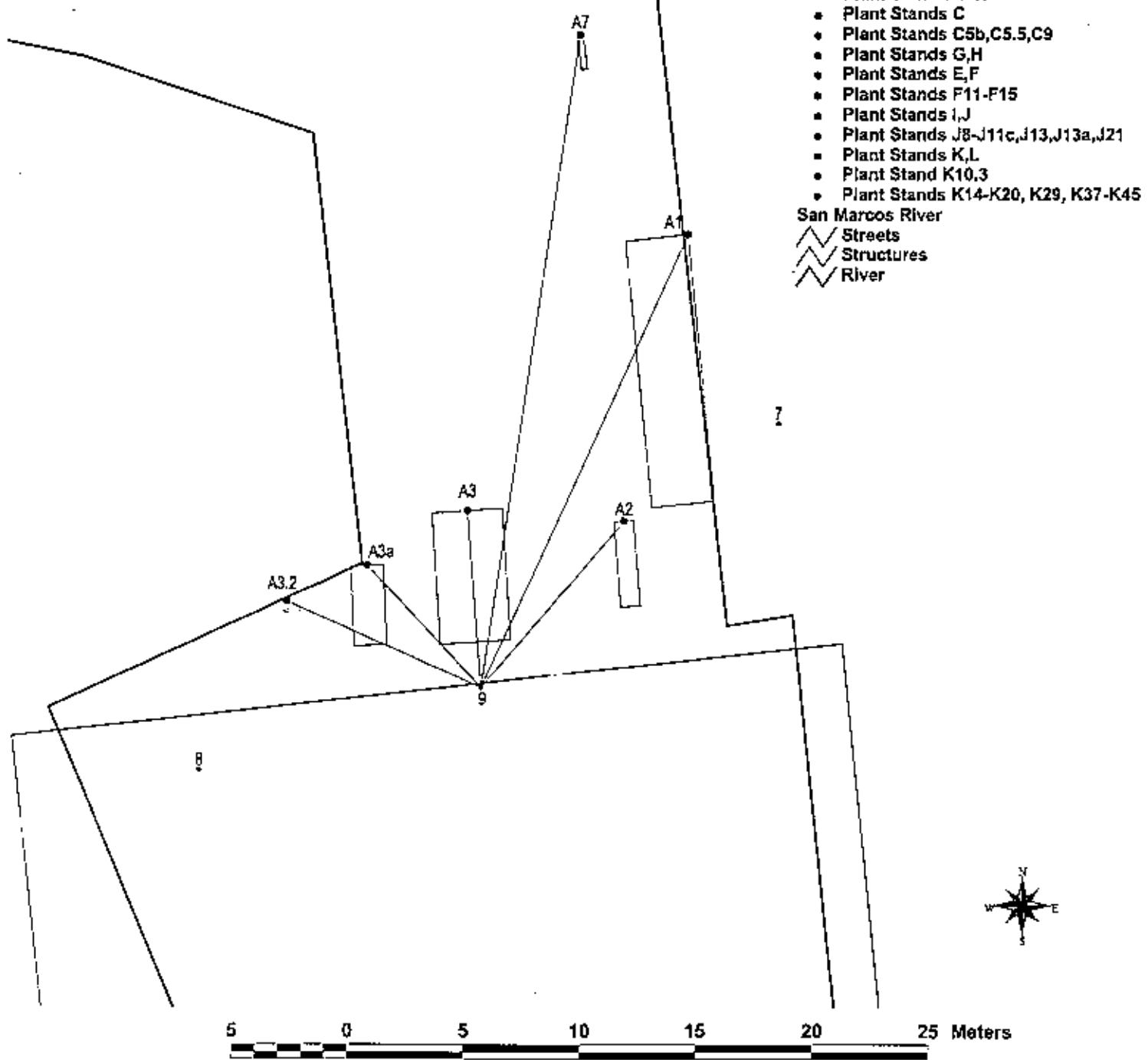
Segment A1 - A6 1995



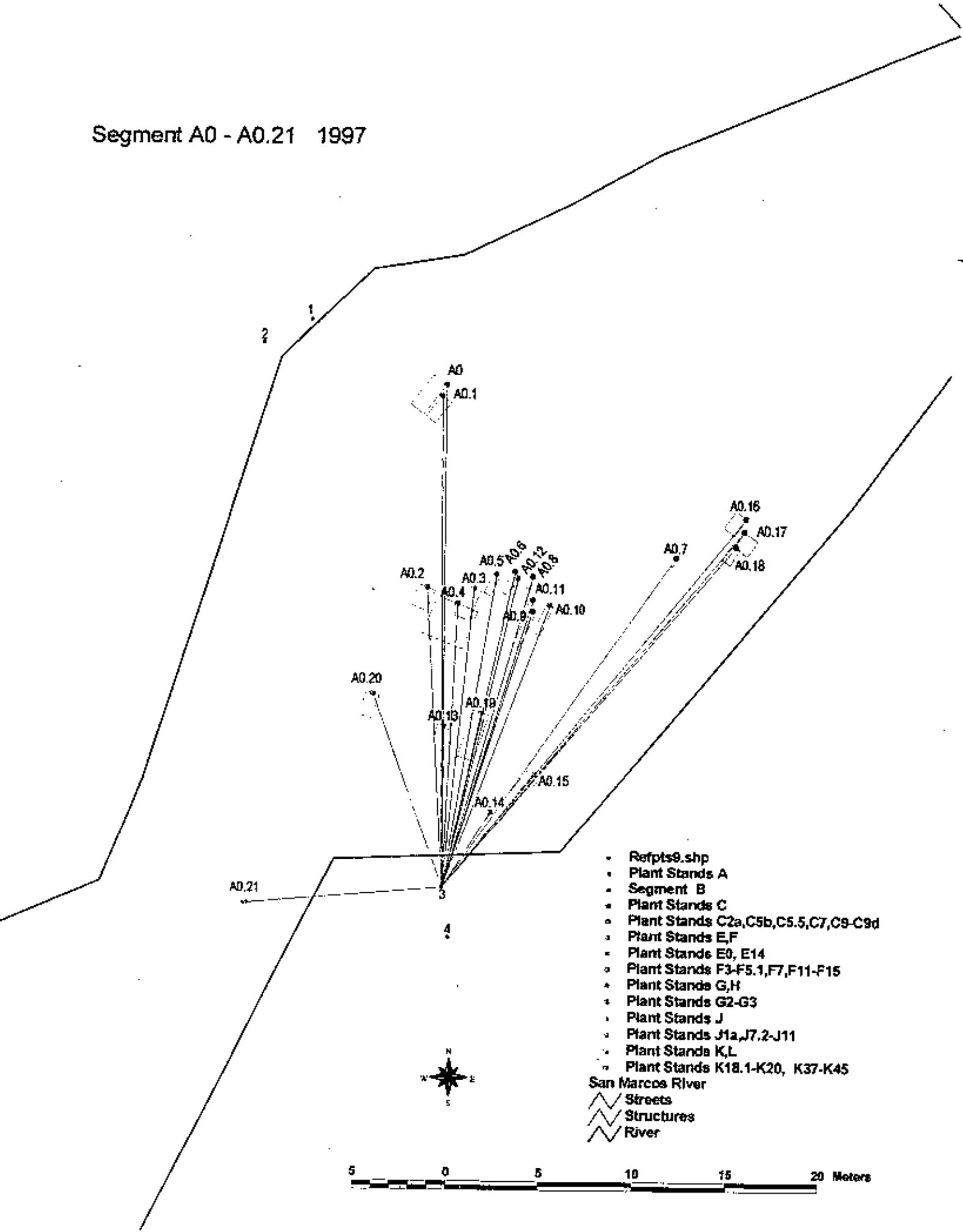
Segment A0 - A0.1 1996



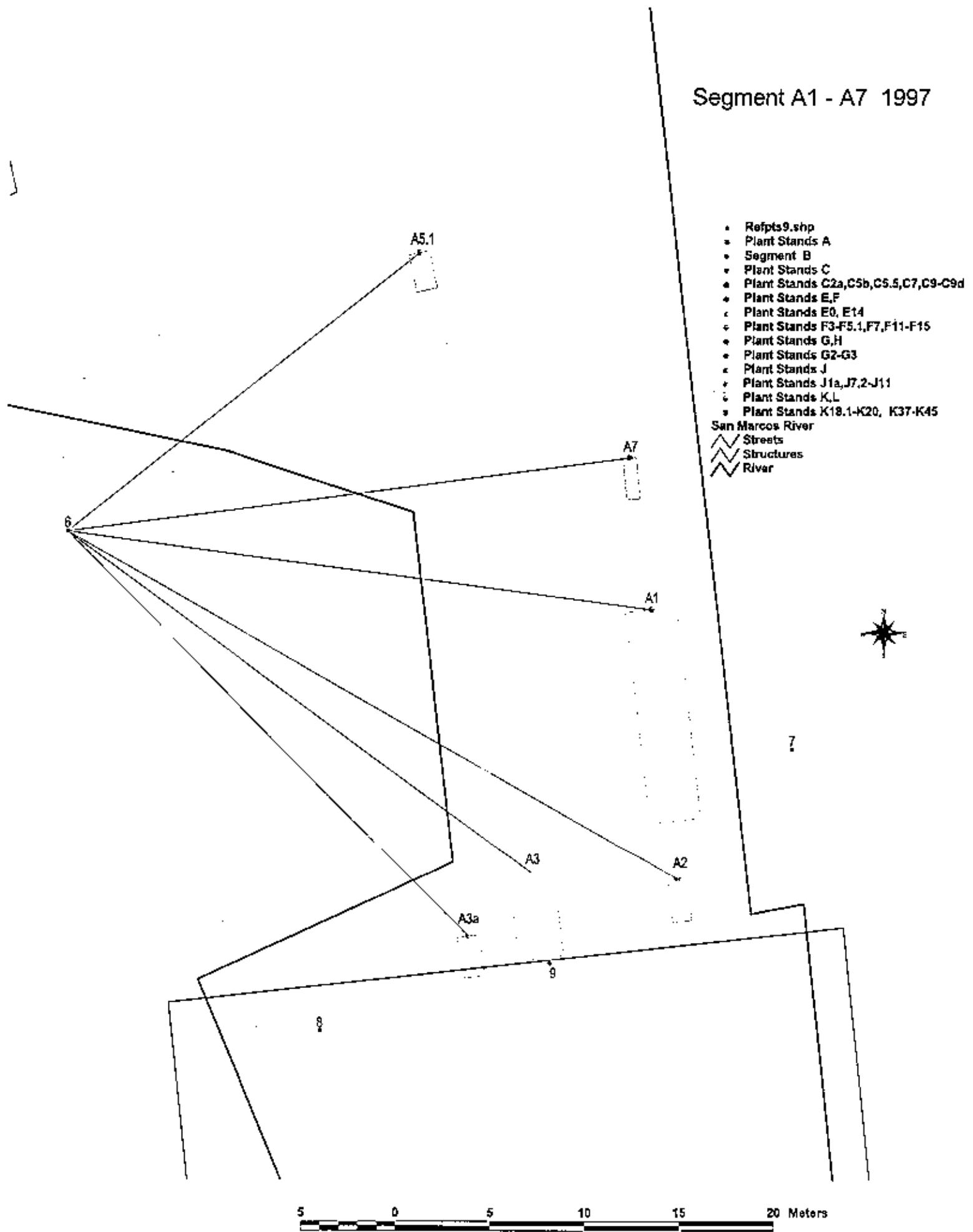
Segments A1 - A7 1996



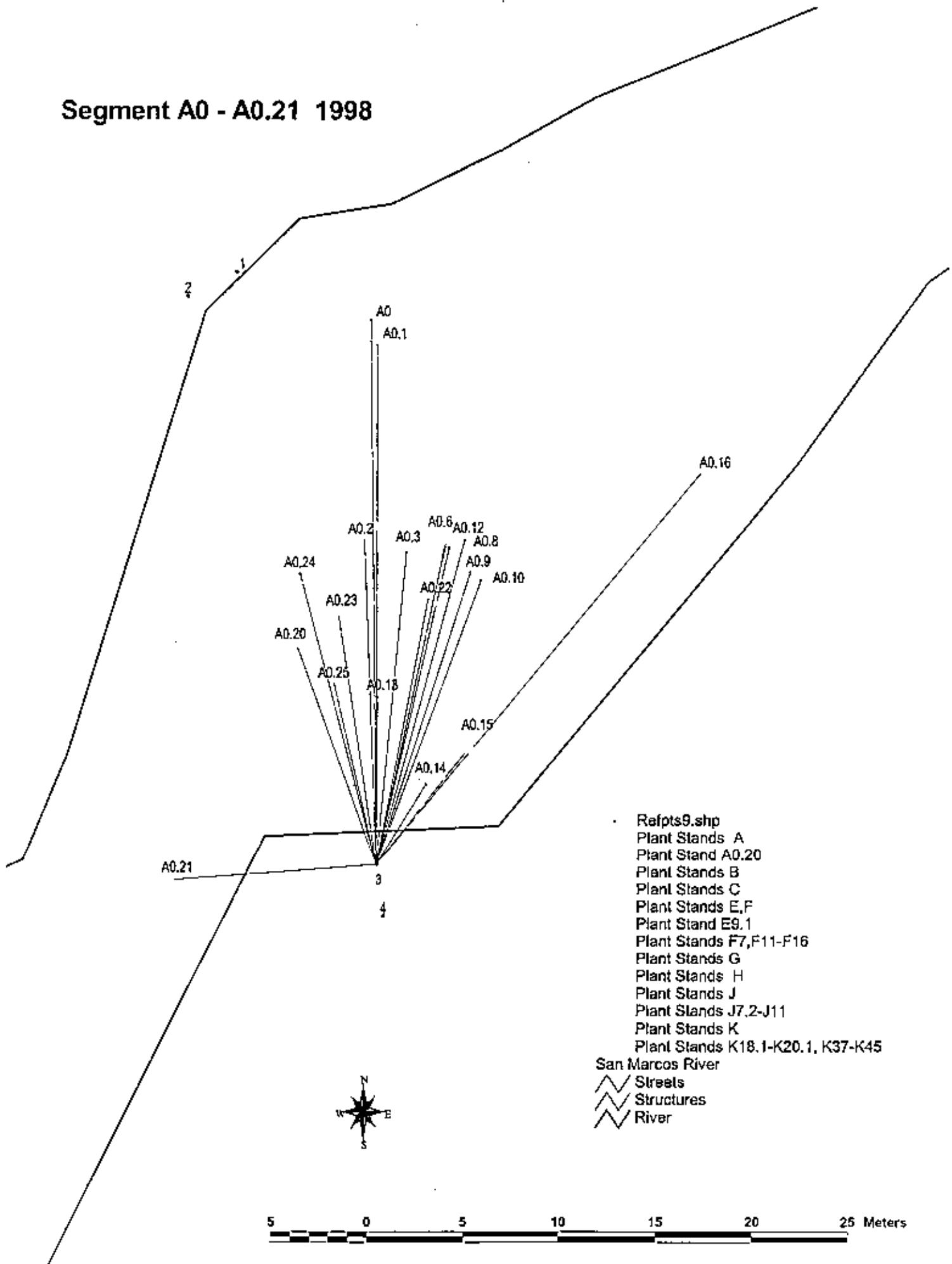
Segment A0 - A0.21 1997



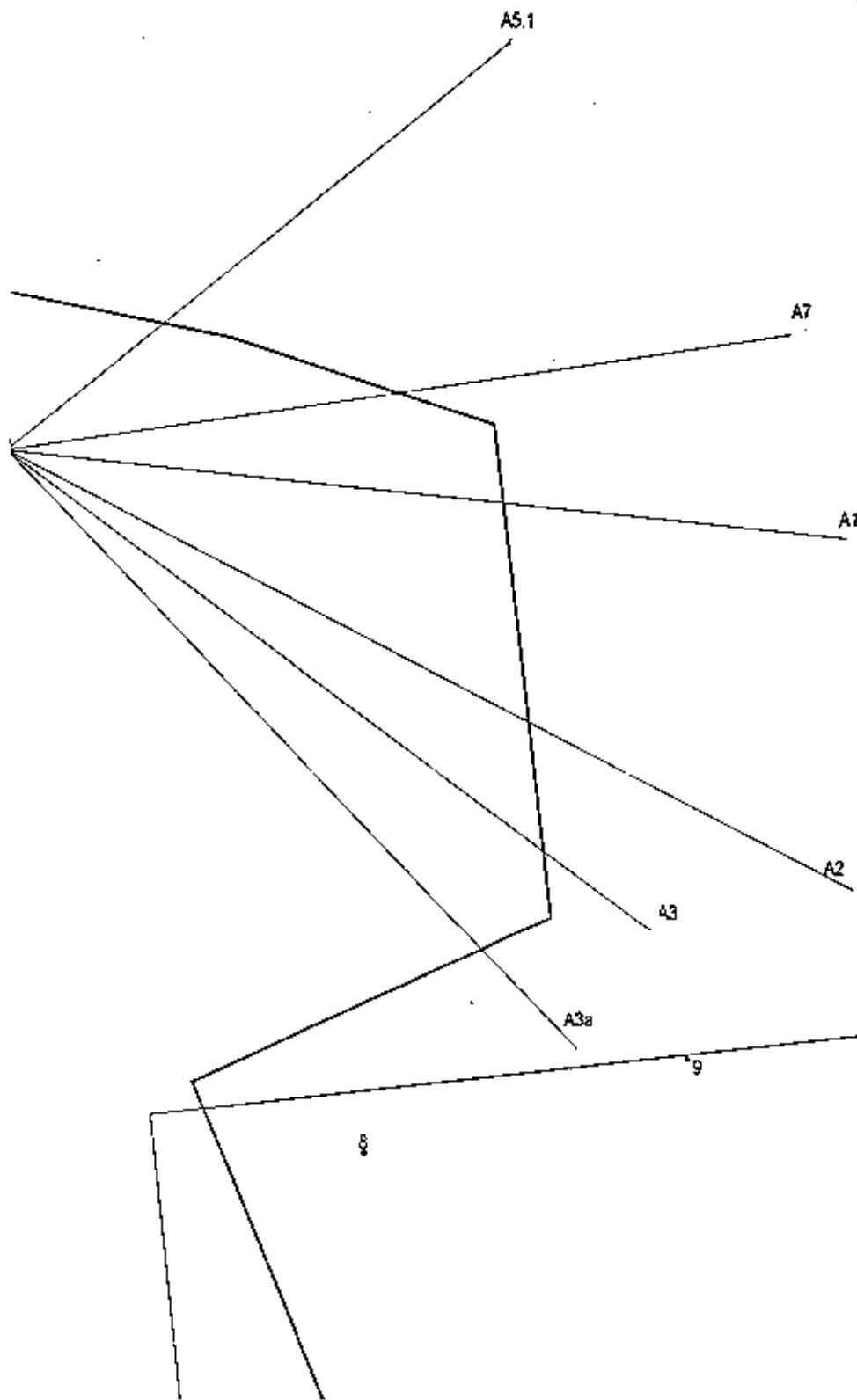
Segment A1 - A7 1997



Segment A0 - A0.21 1998



Segment A1 - A7 1998

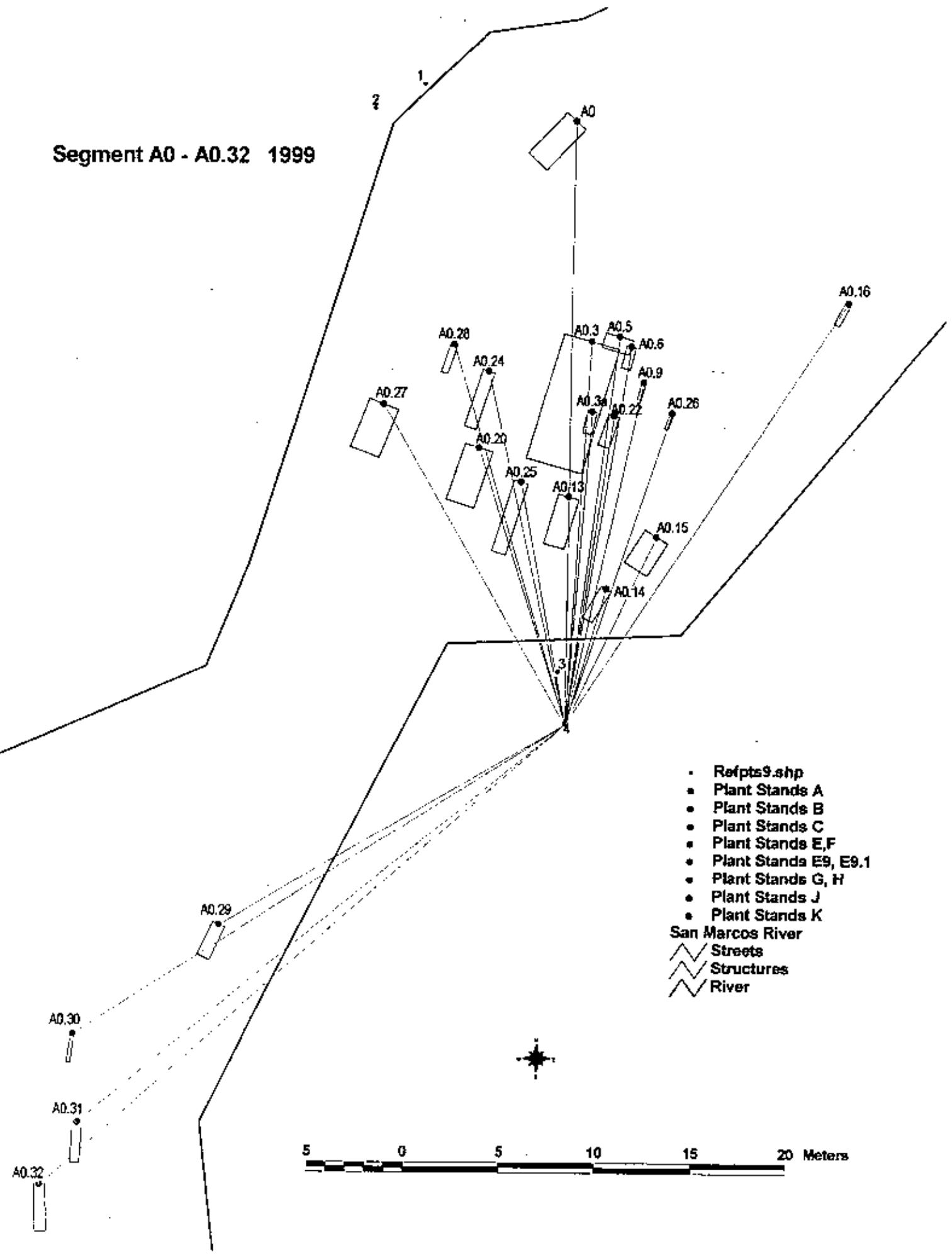


- Plant Stand A0.20
- Repts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stand E9.1
- Plant Stands F7,F11-F16
- Plant Stands G
- Plant Stands H
- Plant Stands H (S data)
- Plant Stands J
- Plant Stands J7.2-J11
- Plant Stands K
- Plant Stands K18.1-K20.1, K37-K45
- San Marcos River
- Streets
- Structures
- River

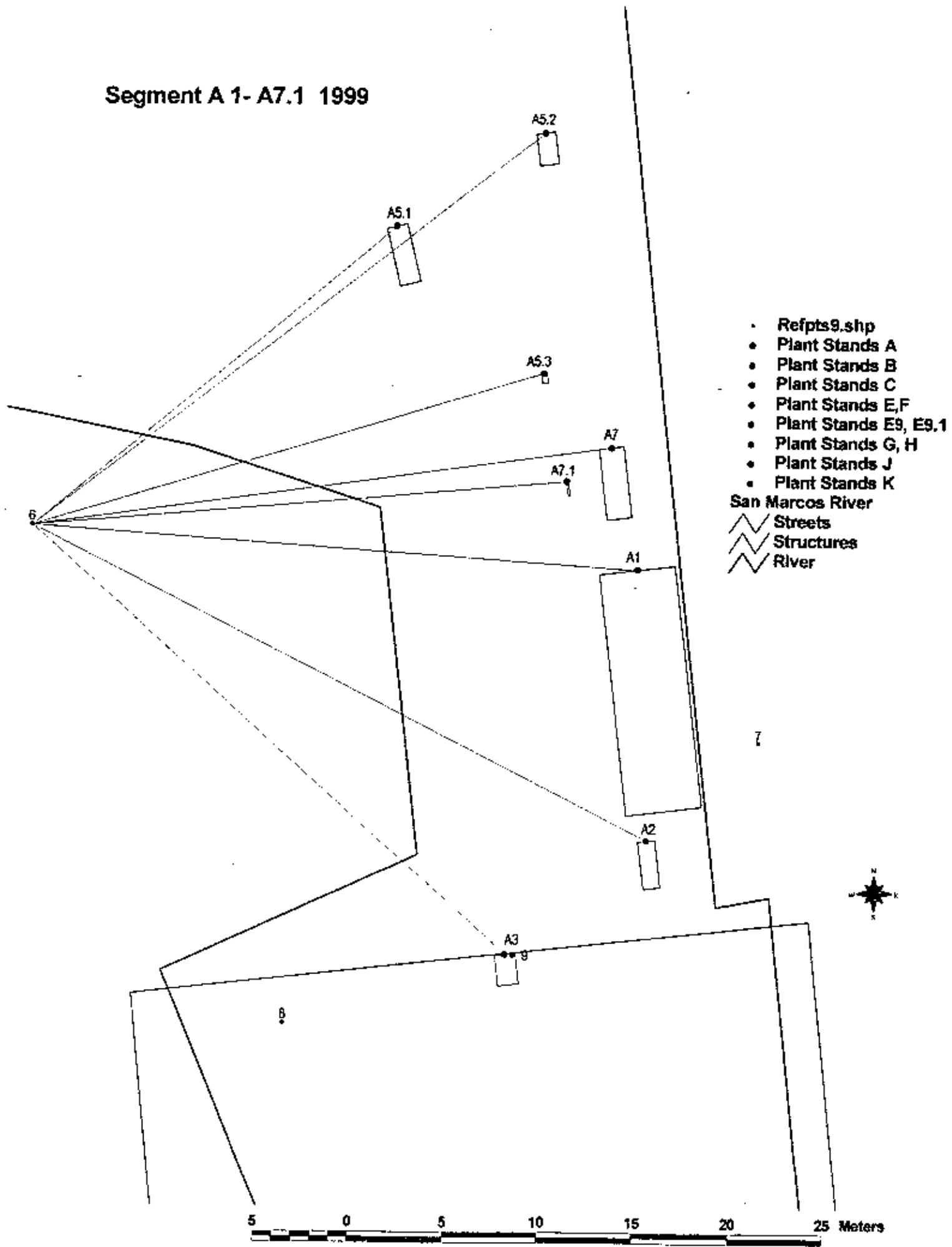


5 0 5 10 15 20 25 Meters

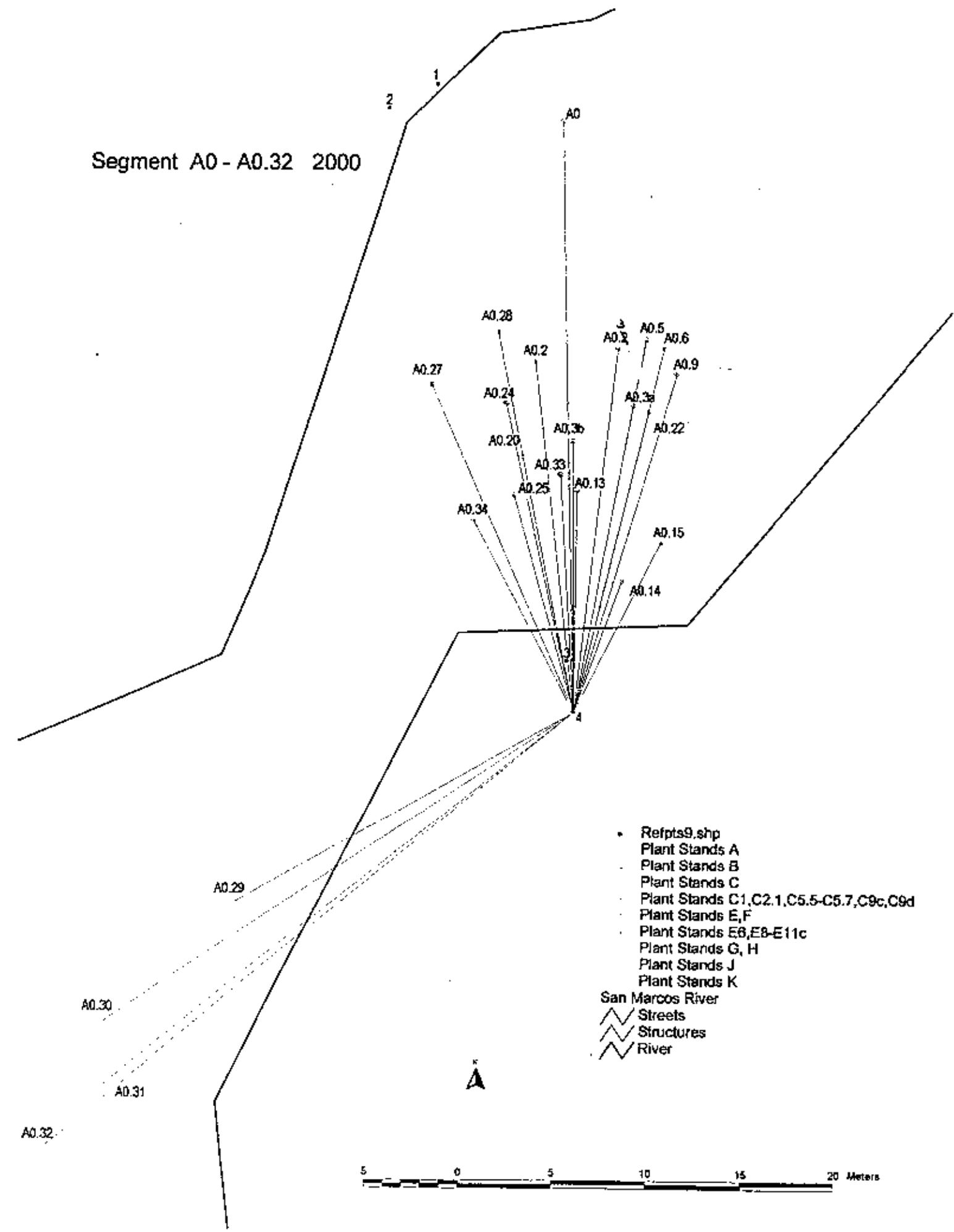
Segment A0 - A0.32 1999



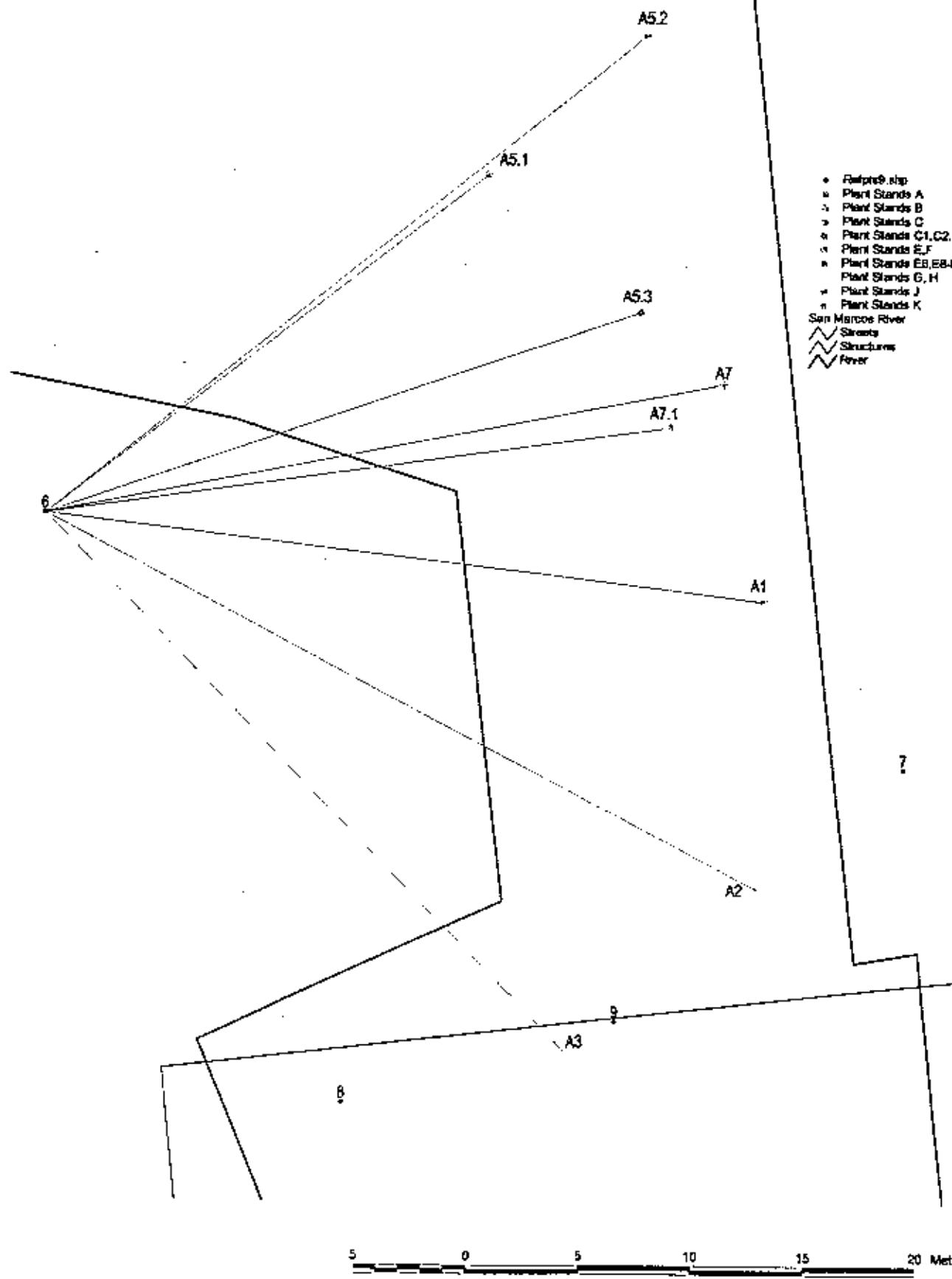
Segment A 1- A7.1 1999



Segment A0 - A0.32 2000

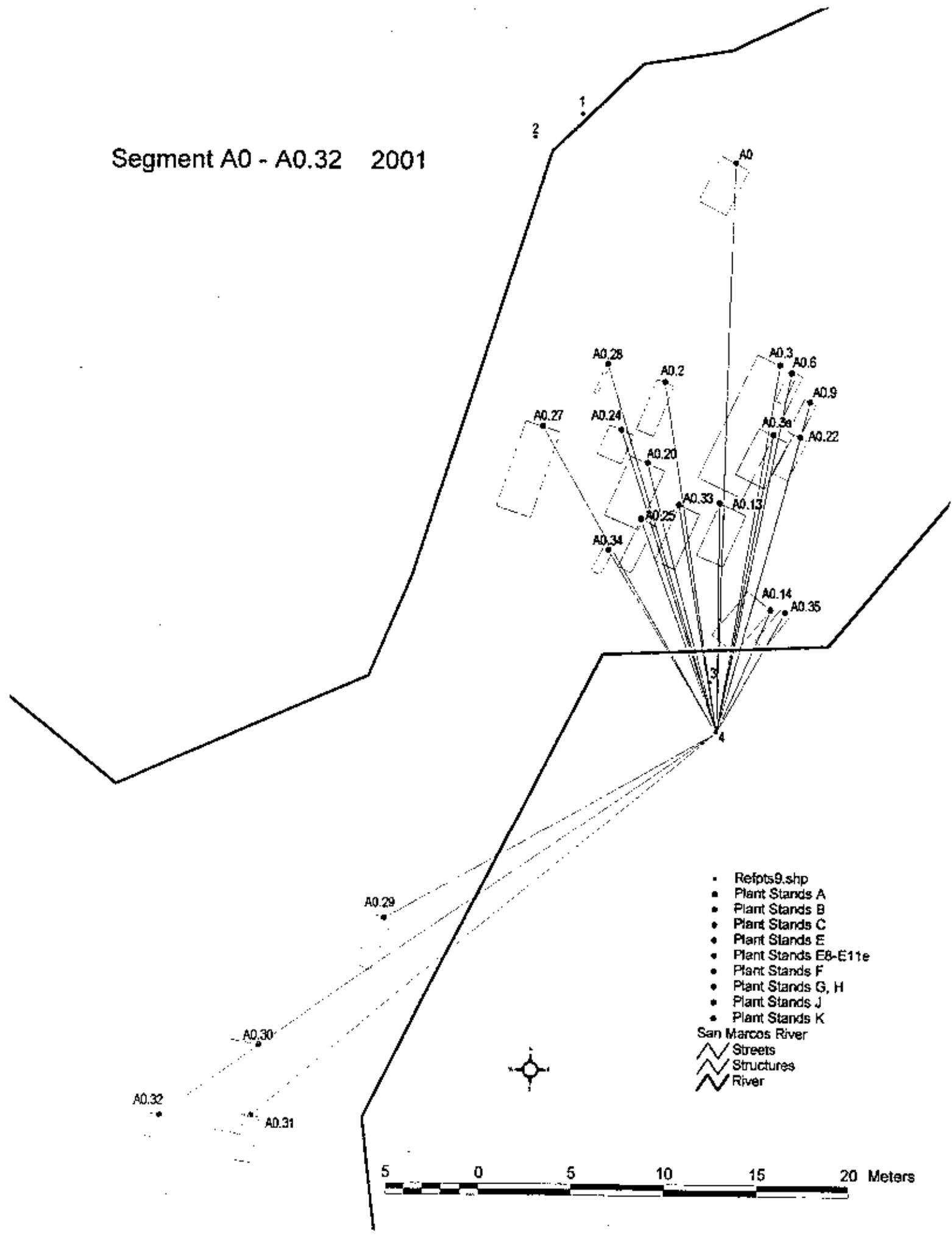


Segment A1 - A7.1 2000

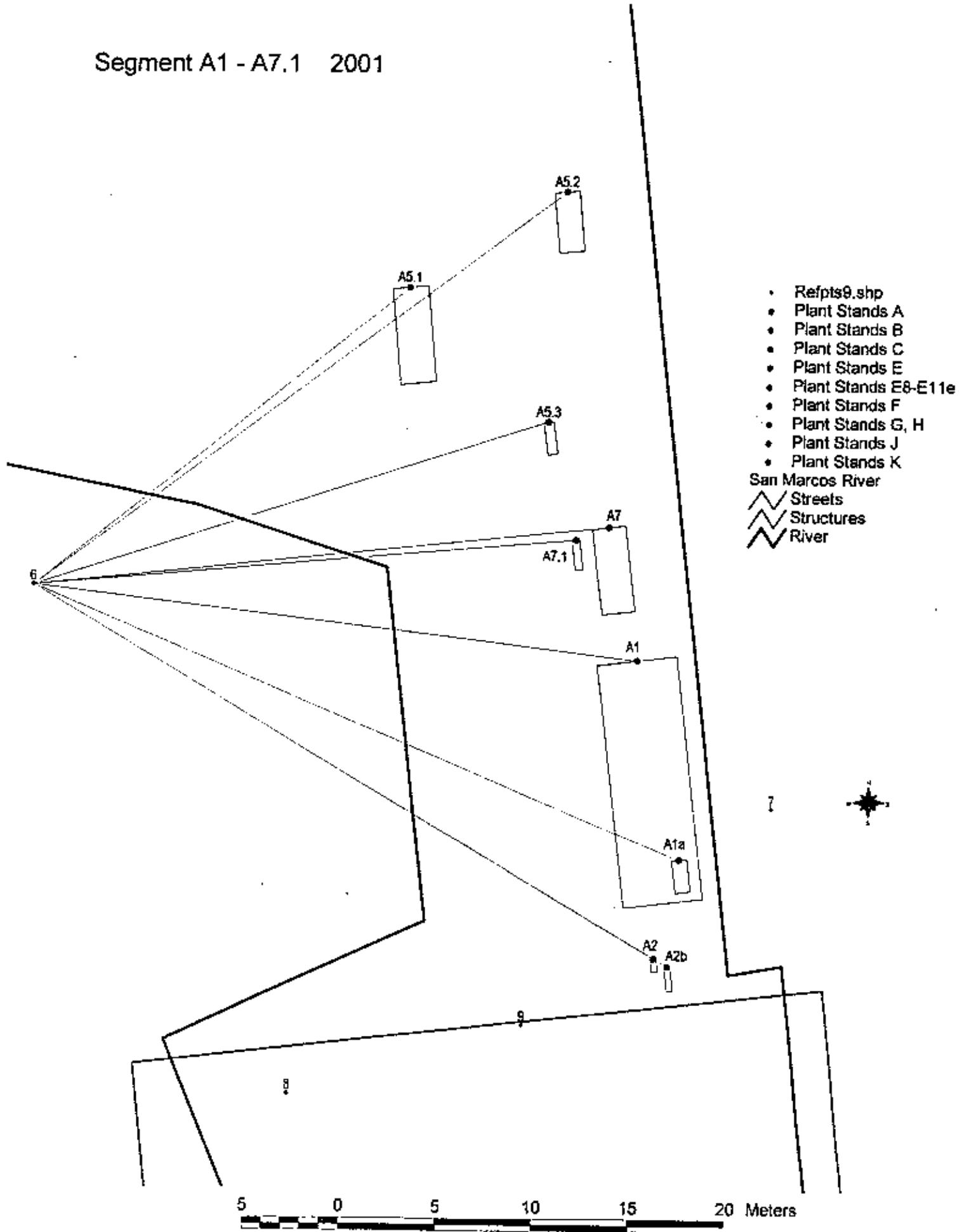


- Rappahannock
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands C1,C2.1,C5.5-C5.7,C9a,C9d
- Plant Stands E,F
- Plant Stands E8,E8-E11c
- Plant Stands G,H
- Plant Stands J
- Plant Stands K
- San Marcos River
 - Streams
 - Structures
 - River

Segment A0 - A0.32 2001



Segment A1 - A7.1 2001

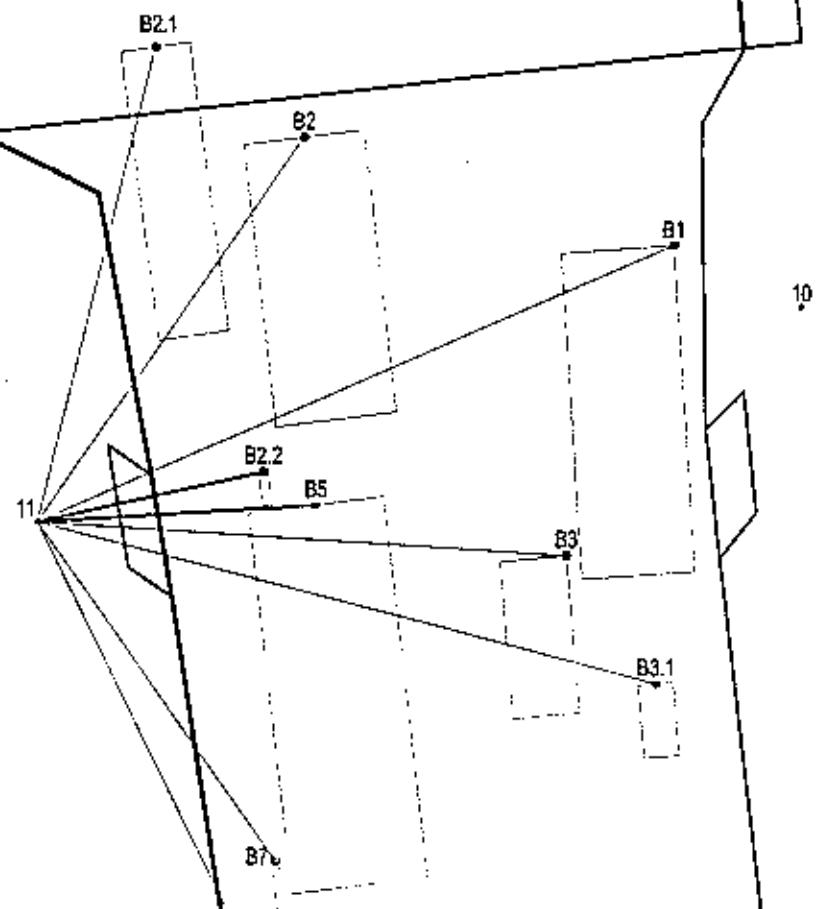


Segments B1 - B15 1989

- Refpts9.shp
 - Plant Stands A
 - Plant Stands B
 - Plant Stands C
 - Plant Stand C3
 - Plant Stands E,F
 - Plant Stands E8a, E9-E13
 - Plant Stands F2,F8-F12
 - Plant Stand F10
 - Plant Stands G
 - Plant Stands H
 - Plant Stands I
 - Plant Stands X
 - Plant Stands J
 - Plant Stands J2,J4-J11,J23-J26
 - Plant Stands J15-J19
 - Plant Stands K,L
 - Plant Stands K23, K24
 - Plant Stands K27,K36,K38-K40,K42-K44
 - Plant Stand M1
 - Rpt989.shp
 - RpJ1489.shp
 - RpJ171.shp
- San Marcos River
- △ Streets
 - △ Structures
 - △ River



5 0 5 10 15 20 Meters



Segment B1 - B15 1990

- Relpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stand B16
- Plant Stands C
- Plant Stands C5-C6,1,C9,C9a
- Plant Stands E,F
- Plant Stands F4-F6, F8-F15
- Plant Stands G
- Plant Stands H
- Plant Stand H2
- Plant Stands I
- Plant Stands J
- Plant Stands J4,J5,J6-J11
- Plant Stands J27,K1-K5,K29-K31
- Plant Stands K,L
- Plant Stands K11-K22,K31
- Plant Stands K23, K24
- Plant Stand K45

San Marcos River

- Streets
- Structures
- River



Segment B16 1990

- * Rimpisamp
- * Plant Stand A
- * Plant Stand B
- * Plant Stand B16
- * Plant Stand C
- * Plant Stands C0-C0.1,C0,C0a
- * Plant Stands E,F
- * Plant Stands F4-F6, H8,F15
- * Plant Stand G
- * Plant Stand H
- * Plant Stand H2
- * Plant Stand I
- * Plant Stand J
- * Plant Stands J4,J6,J8-J11
- * Plant Stands J9,K1-K5,K29-K31
- * Plant Stands K,L
- * Plant Stands K11-K22,K31
- * Plant Stands K23, K24
- * Plant Stand K45
- San Marcos River
- Streets
- Structures
- Above

5 0 5 10 15 20 Meters



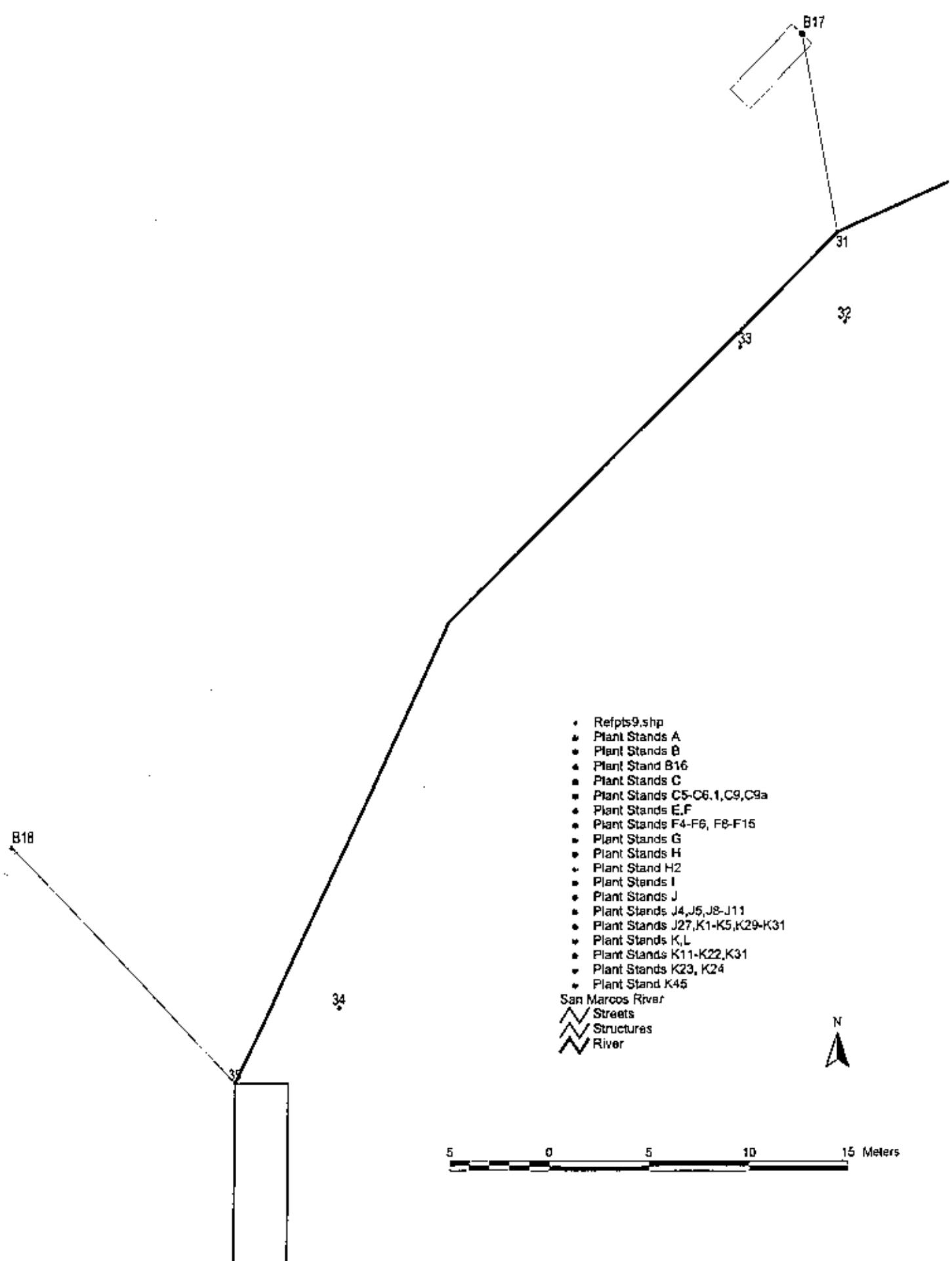
B16

27

26

23

Segment B17, B18 1990





Segment B1 - B15.1 1991

- Repts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands B18,B16.1
- Plant Stands B18,B19a-b,B21
- Plant Stands C
- Plant Stands C5,C5.1,C6,C6.1,C9,C9a
- Plant Stands E,F
- Plant Stand E8a
- Plant Stands G
- Plant Stands H
- Plant Stand H4
- Plant Stands I
- Plant Stands J
- Plant Stands J8-J11
- Plant Stands J27-J28,K1-K3,K11-K20,K29-K30¹⁴
- Plant Stands K,L
- Plant Stand K23

San Marcos River

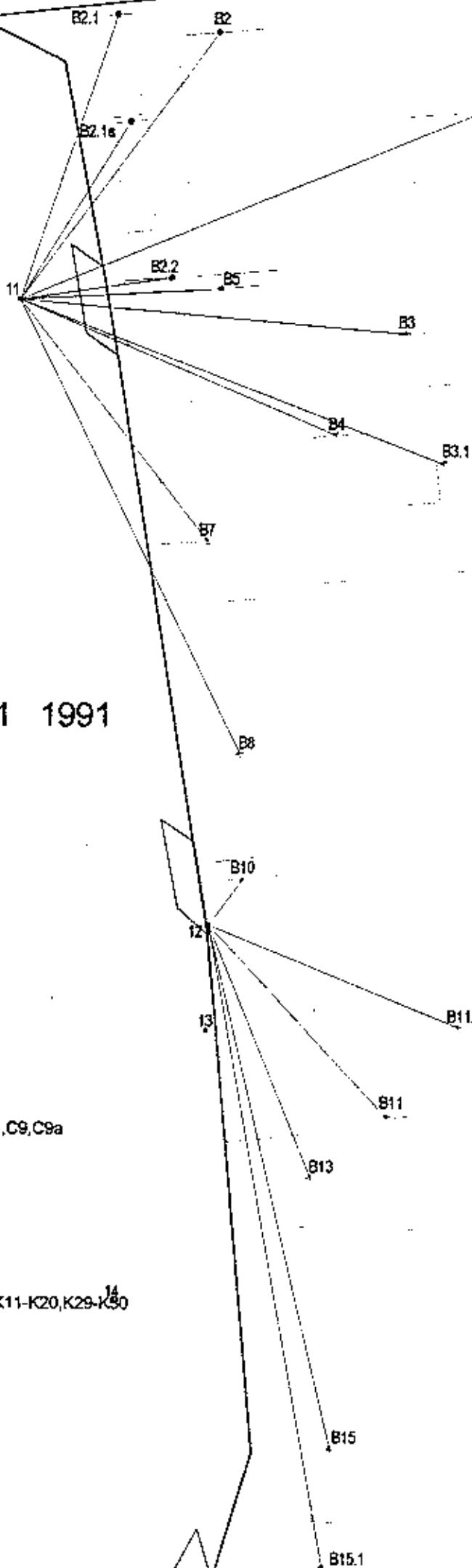
- ~~~~ Streets
- ~~~~ Structures
- ~~~~ River



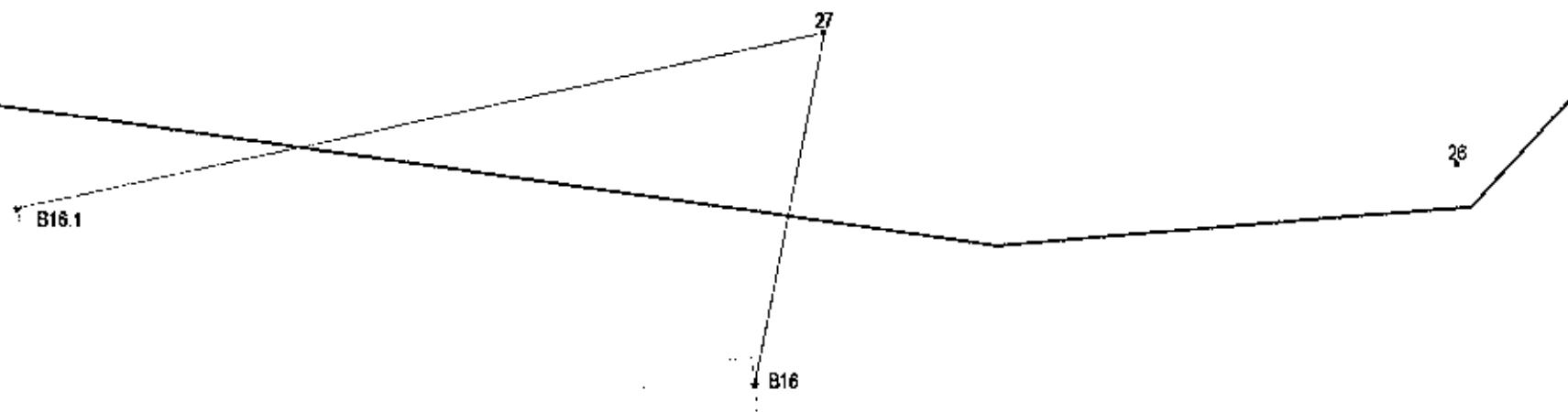
17

5 0 5 10 15 20 Meters

10



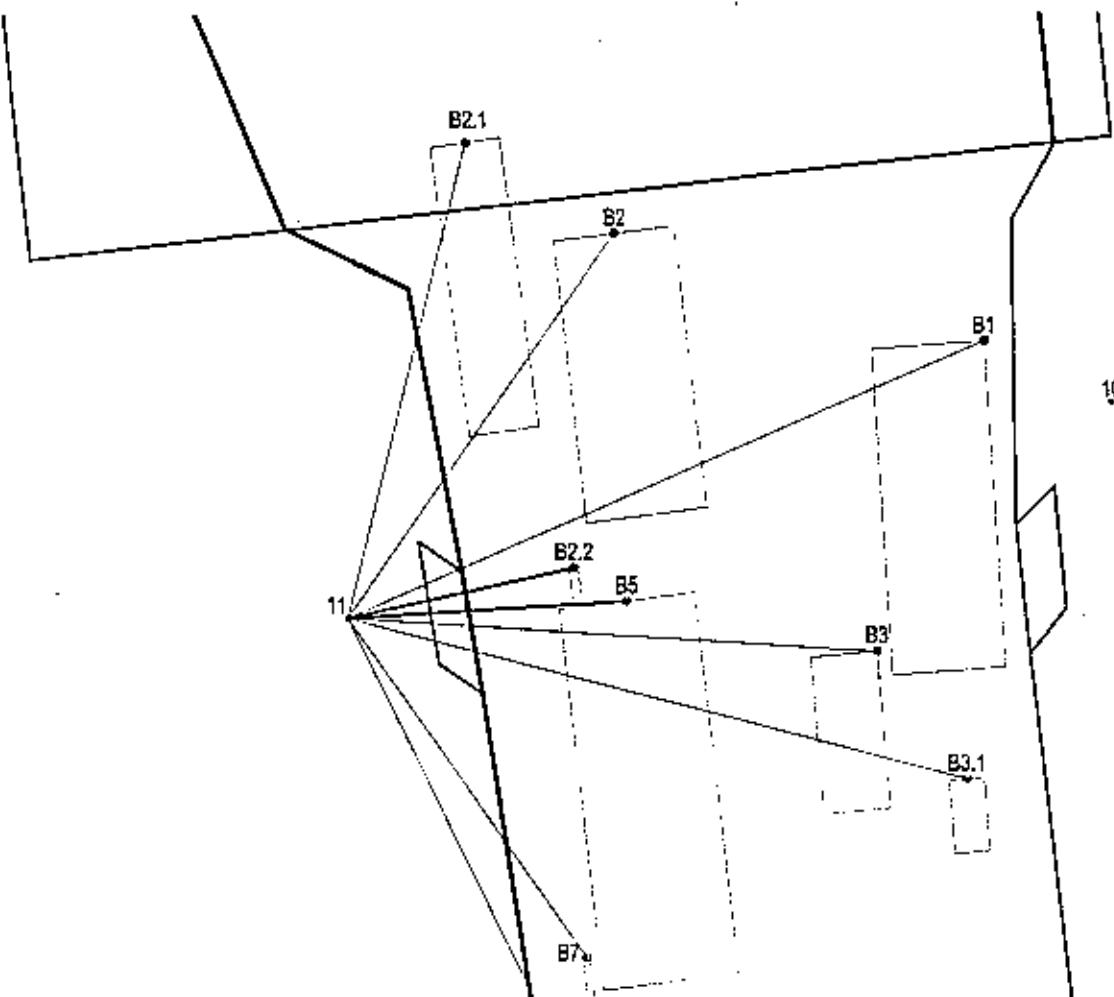
Segment B16, B16.1 1991



- Relaxed site
 - Plant Stand A
 - Plant Stand B
 - Plant Stand B16,B16.1
 - Plant Stand B16,B16+5,B21
 - Plant Stand C
 - Plant Stands C1,C5,I,C6,C8,t,C9,C9a
 - Plant Stand E,F
 - Plant Stand E8a
 - Plant Stand G
 - Plant Stand H
 - Plant Stand H4
 - Plant Stand I
 - Plant Stand J
 - Plant Stands J8-J11
 - Plant Stands J27-J28,K1-K3,K11-K20,K29-K30
 - Plant Stand K,L
 - Plant Stand K23
- San Marcos River
Shrub
Shrubless
River



N



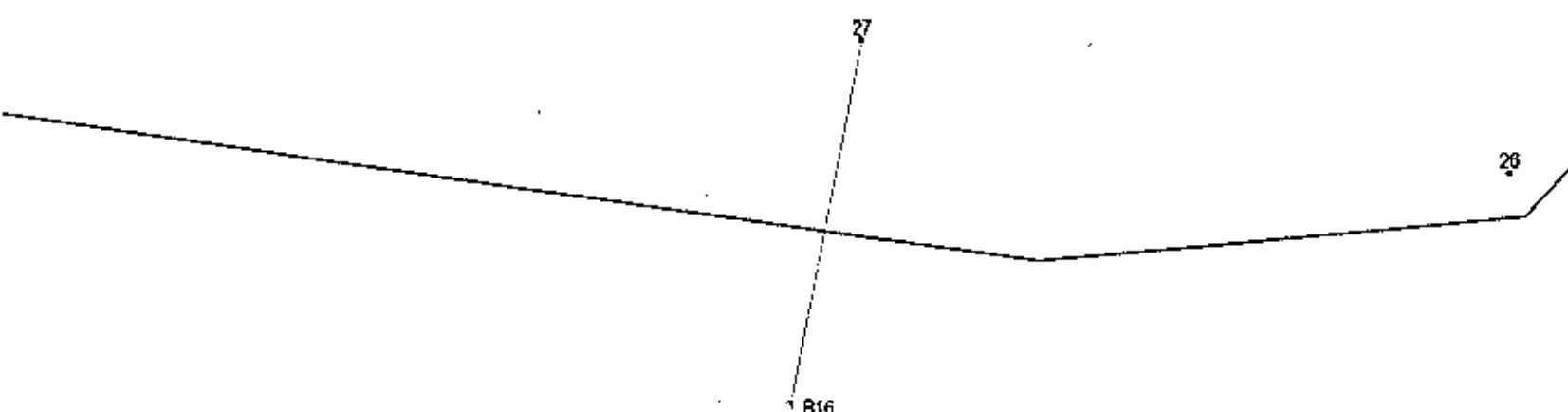
Segment B1 - B15 1990

- Repts9.shp
 - Plant Stands A
 - ▲ Plant Stands B
 - ◆ Plant Stand B16
 - ◆ Plant Stands C
 - ◆ Plant Stands C5-C6.1,C9,C9a
 - ◆ Plant Stands E,F
 - ◆ Plant Stands F4-F6, F8-F15
 - ◆ Plant Stands G
 - ◆ Plant Stands H
 - ◆ Plant Stand H2
 - ◆ Plant Stands I
 - ◆ Plant Stands J
 - ◆ Plant Stands J4,J5,J8-J11
 - ◆ Plant Stands J27,K1-K5,K29-K31
 - ◆ Plant Stands K,L
 - ◆ Plant Stands K11-K22,K31
 - ◆ Plant Stands K23, K24
 - ◆ Plant Stand K45
- San Marcos River
- ▲ Streets
 - ▲ Structures
 - ▲ River



5 0 5 10 15 20 Meters

Segment B16 1992



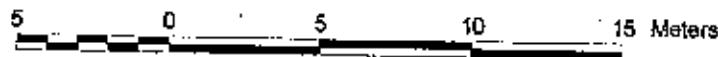
- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands D
- Plant Stands E
- Plant Stands E12.1, E13
- Plant Stands F
- Plant Stands F4.1, F4.2
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands J
- Plant Stands J2B, K, L
- Plant Stand K23

San Mardia River
~~~~~ Streets  
~~~~~ Structures  
~~~~~ River

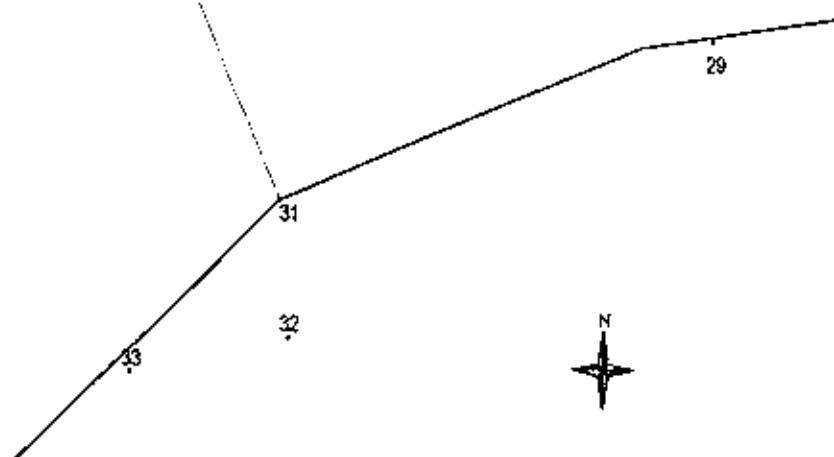


## Segment B16.2 1992

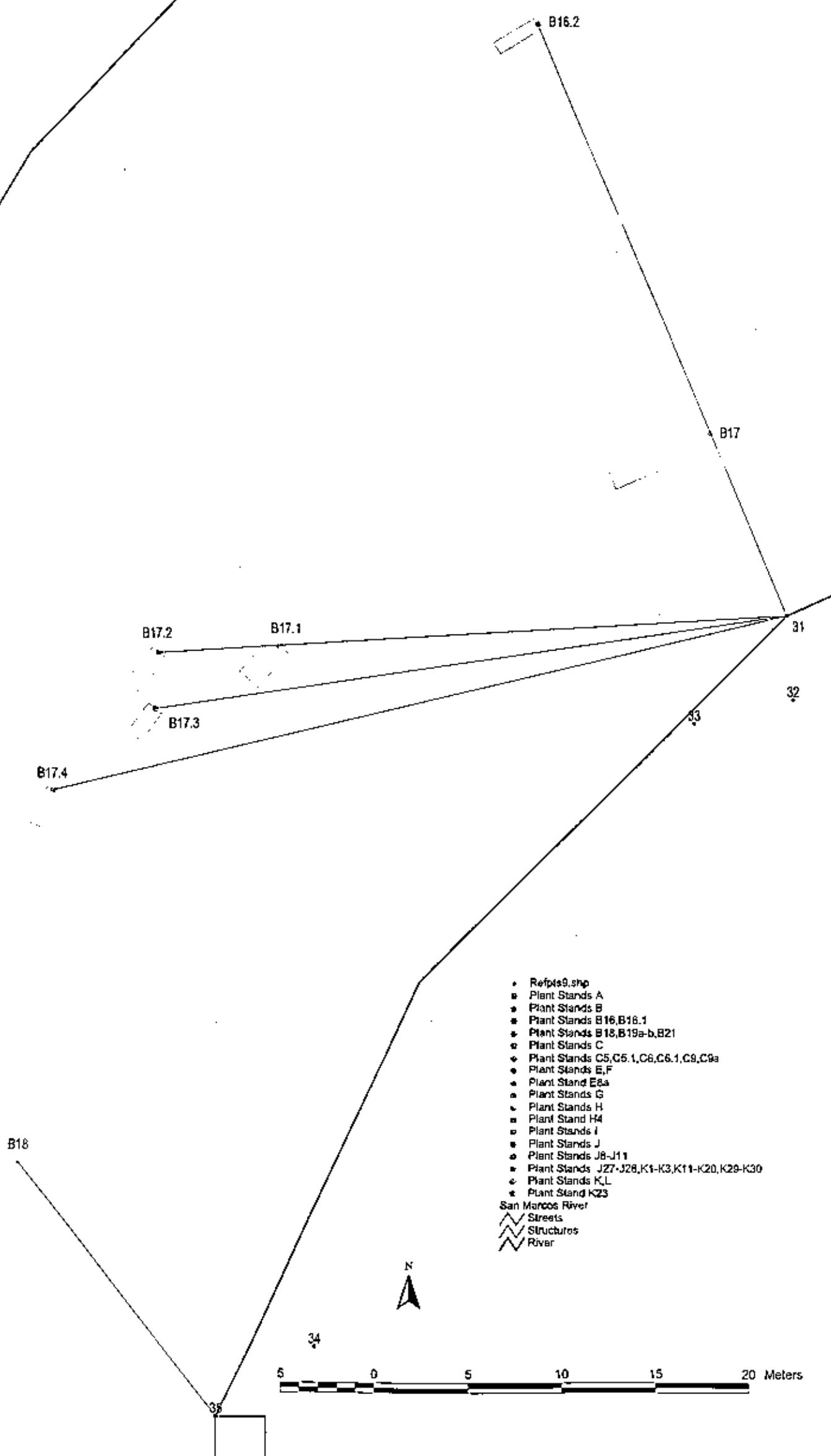
- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E
- Plant Stands E12.1, E13
- Plant Stands F
- Plant Stands F4.1, F4.2
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands J
- Plant Stands J28, K, L
- Plant Stand K23
- San Marcos River
- Streets
- Structures
- River

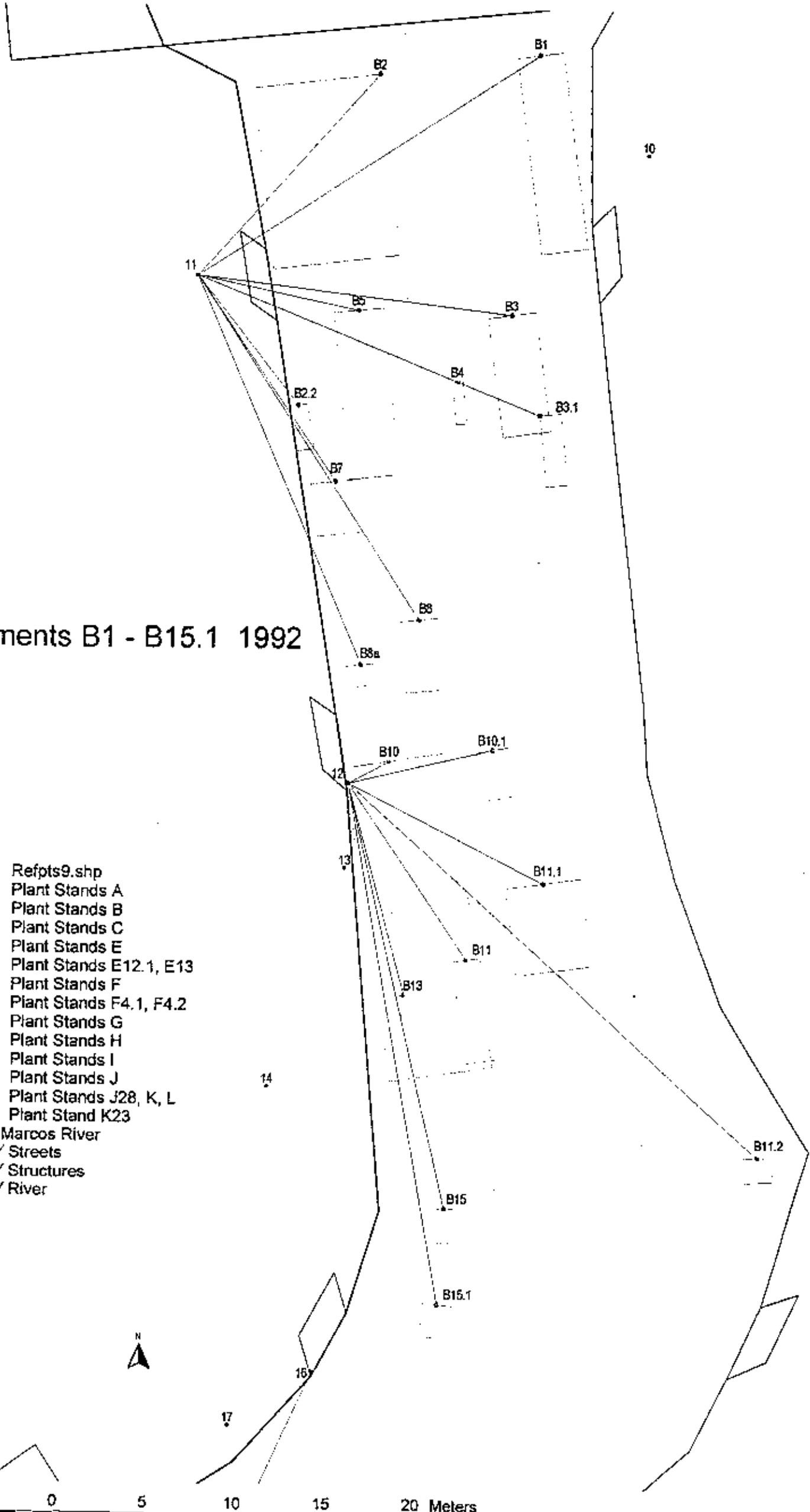


B16.2

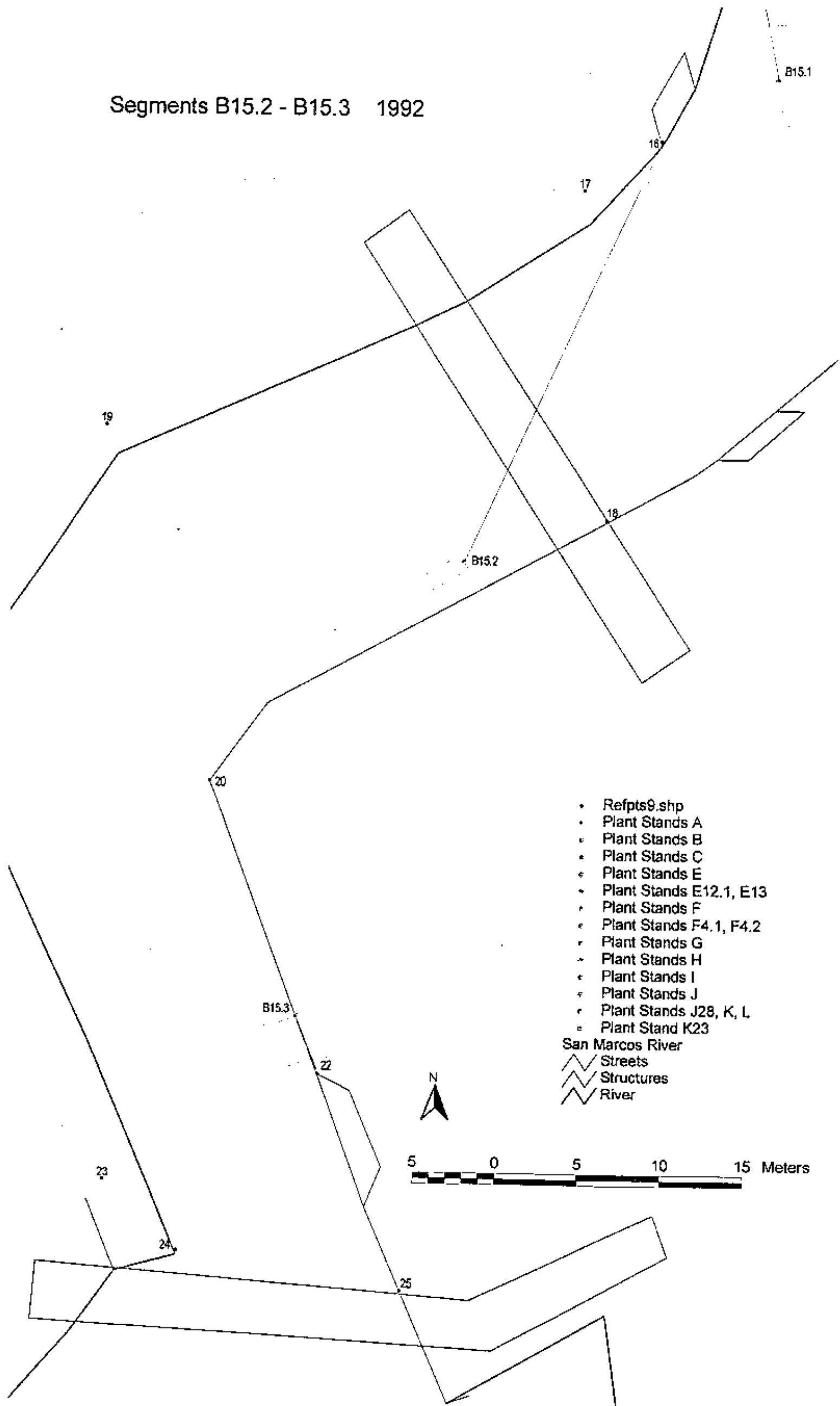


Segment B16.2 - B18 1991

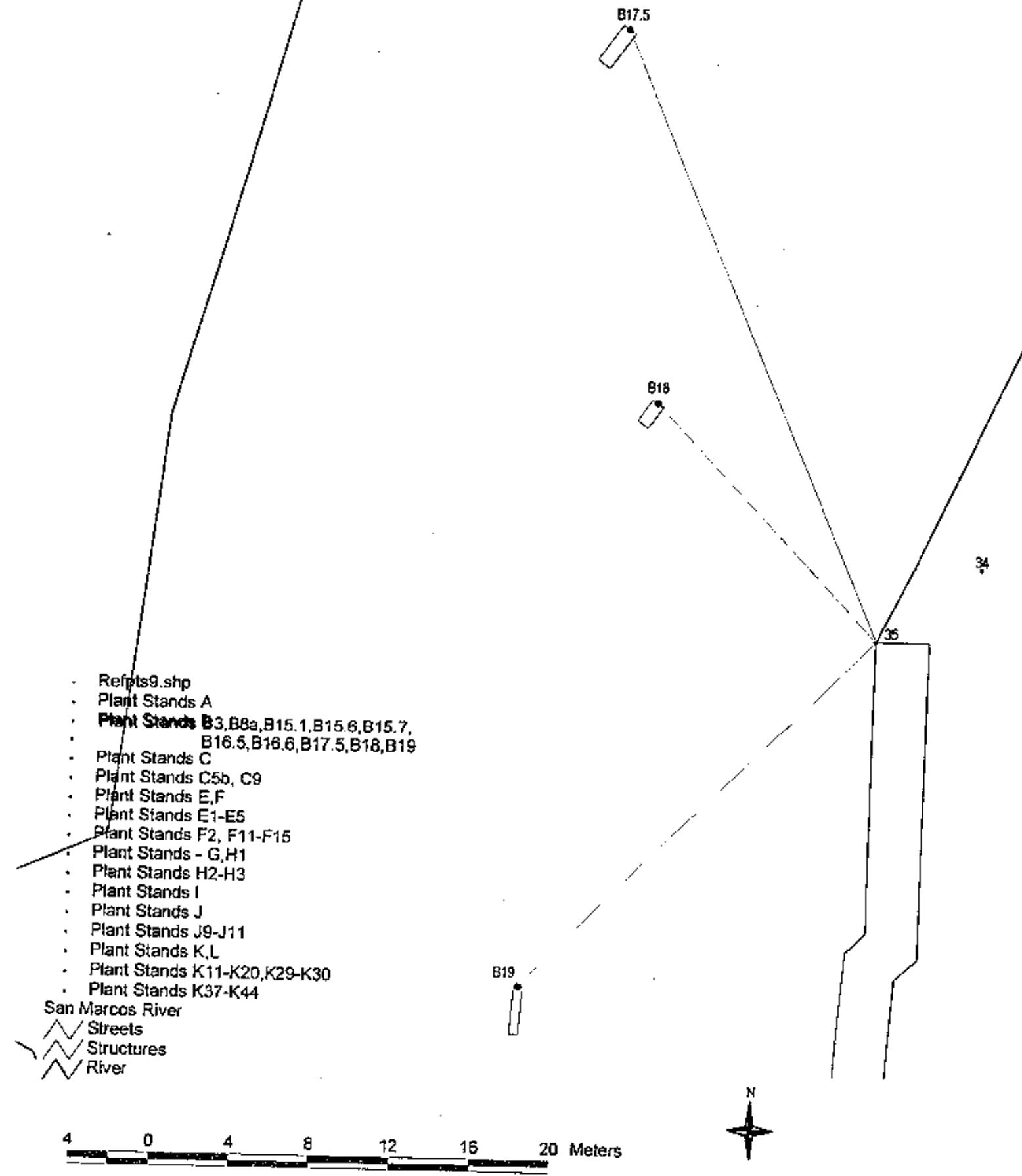




Segments B15.2 - B15.3 1992



Segment B17.5 - B19 1993



## Segment B1 - B15.1 1993

- Refpts9.shp
- Plant Stands A
- Plant Stands B3,B8a,B15.1,B15.6,B15.7,  
B16.5,B16.6,B17.5,B18,B19
- Plant Stands C
- Plant Stands C5b, C9
- Plant Stands E,F
- Plant Stands E1-E5
- Plant Stands F2, F11-F15
- Plant Stands - G,H1
- Plant Stands H2-H3
- Plant Stands I
- Plant Stands J
- Plant Stands J9-J11
- Plant Stands K,L
- Plant Stands K11-K20,K29-K30
- Plant Stands K37-K44

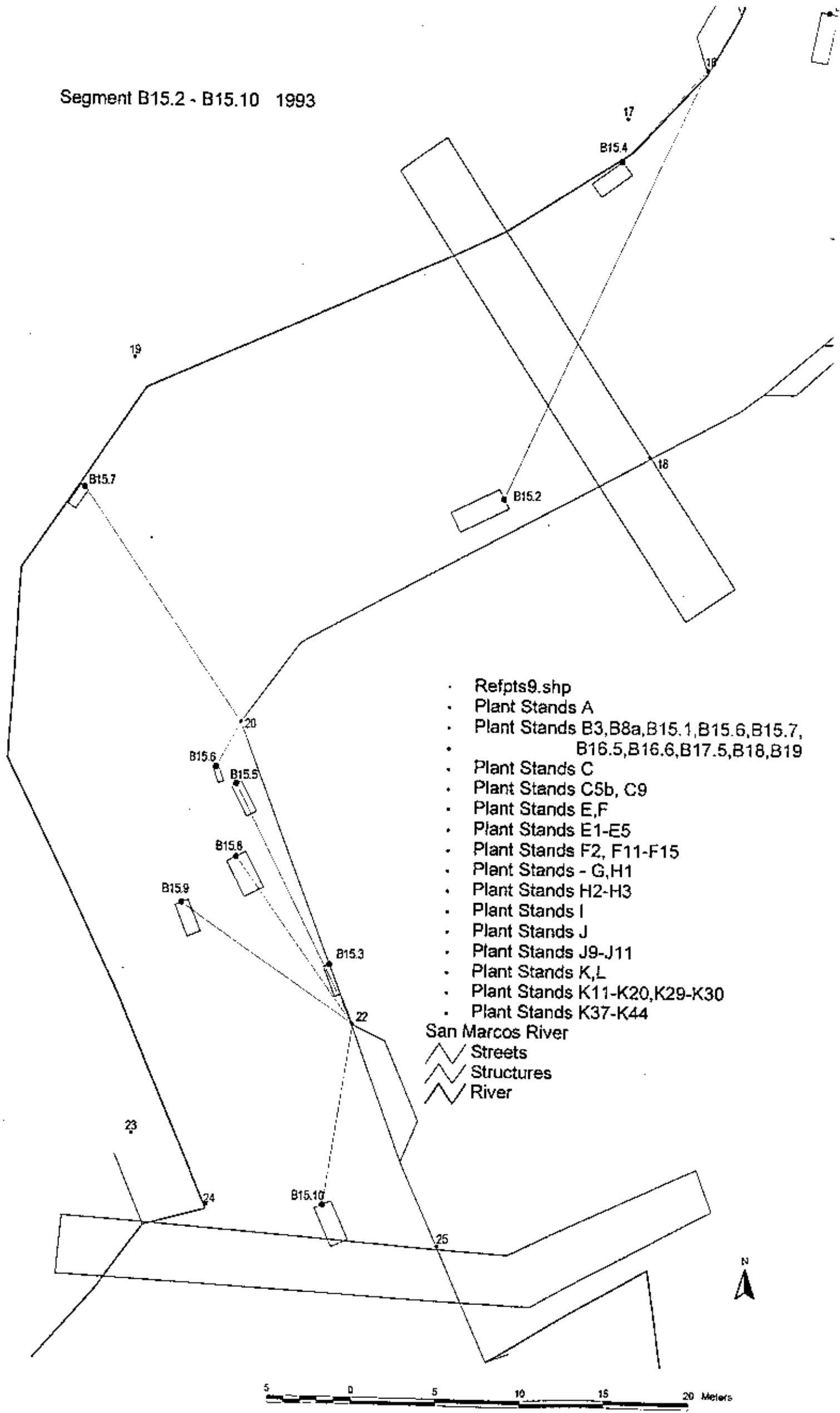
San Marcos River

- ✓ Streets
- ✓ Structures
- ✓ River

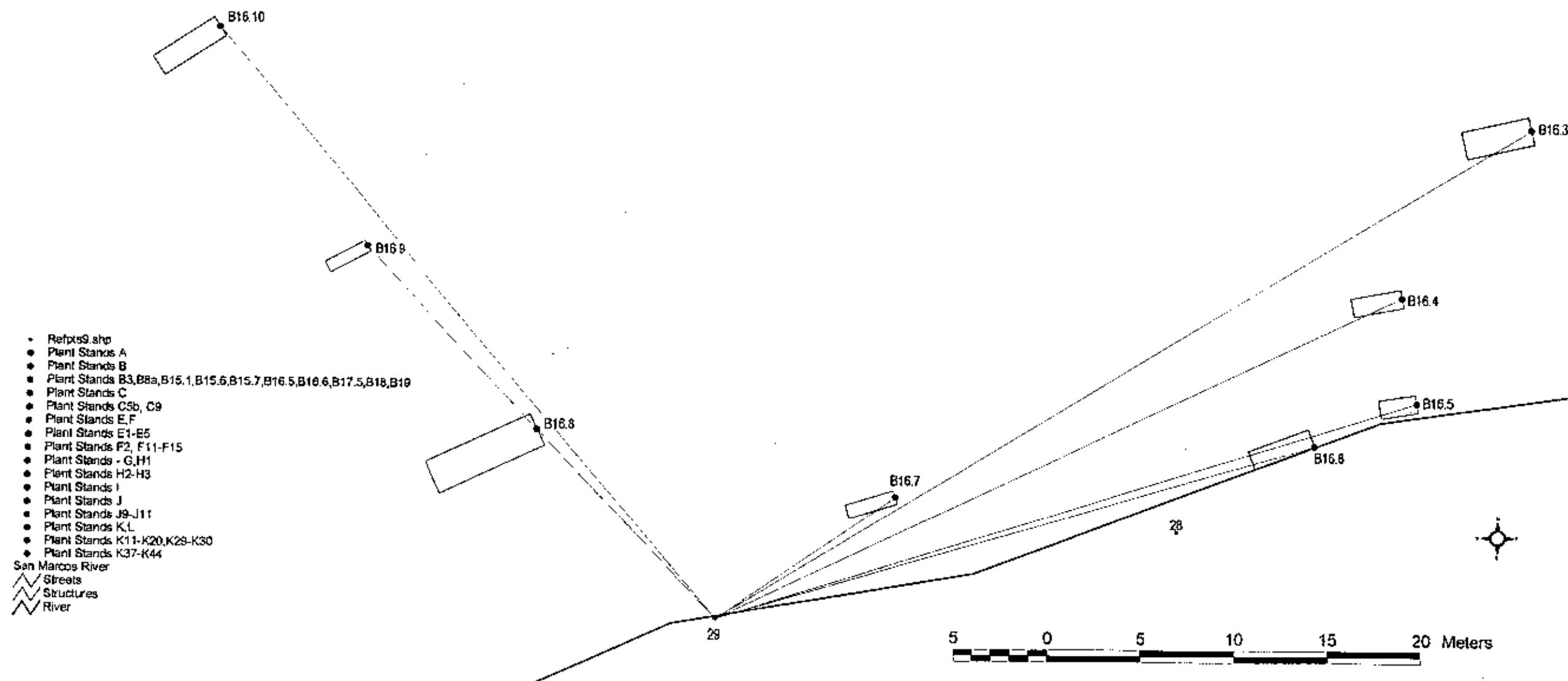


5 0 5 10 15 Meters

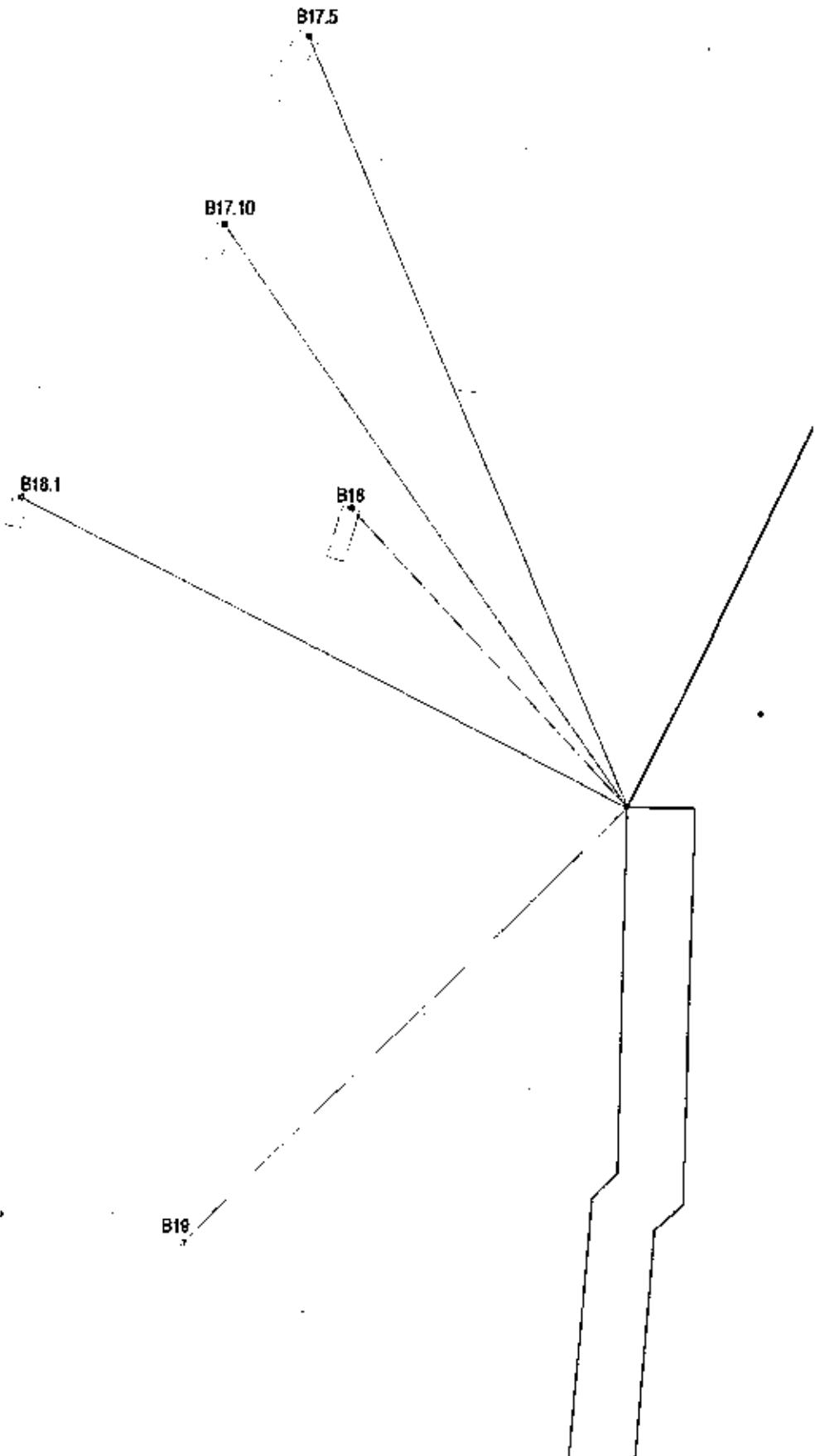
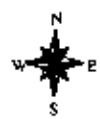
Segment B15.2 - B15.10 1993



Segment B16.3 - B16.10 1993



egment B17.5- B19 1994



- Repts9.shp
- Plant Stands A
- Plant Stands A0, A2
- Plant Stands B1f,B3.5,B3.6,B11.6,B11.8,B11.9,B15.3,  
B16.7,B15.9,B15.10,B15.22,B15.23,B19
- Plant Stands C
- Plant Stands C5b,C5.4,C5.5,C9
- Plant Stands E,F
- Plant Stand E6.3
- Plant Stands F11-F15
- Plant Stands G,H0a
- Plant Stands H2-H2b
- Plant Stands I,J
- Plant Stands J9-J11
- Plant Stands K,L
- Plant Stands K11.2-K20,K29-K30,K37-K45

San Marcos River

- Streets
- Structures
- River

0 5 10 15 20 Meters

**Segment B1 - B15.13 1994**

- Refpts9.shp
- Plant Stands A
- Plant Stands A0, A2
- B1g,B1f,B10.5,B3.8,B11.6,B11.8,B11.9,  
B15.3,B15.7,B15.9,B15.10,B15.22,B15.23,B19
- Plant Stands C
- Plant Stands C5b,C5.4,C5.5,C9
- Plant Stands E,F
- Plant Stand E6.3
- Plant Stands F11-F15
- Plant Stands G,H0a
- Plant Stands H2-H2b
- Plant Stands I,J
- Plant Stands J9-J11
- Plant Stands K,L
- Plant Stands K11.2-K20,K29-K30,K37-K45

**San Marcos River**

- △ Streets
- △ Structures
- △ River



10 Meters

B15.4

B15.15 B15.14

B15.13 B15.12

B15.11

B15.10

B11.11

B11.10

B11.11

B11.12

B11.13

B11.14

B11.15

B11.16

B11.17

B11.18

B11.19

B11.20

B11.21

B11.22

B11.23

B11

B10.6

B10.1

B10.3

B10.2

B10.4

B10.5

B10.6

B10.7

B10.8

B10.9

B10.10

B1a

B1b

B1c

B1d

B1e

B1f

B1g

B1h

B1i

B1j

B1k

B1l

B1m

B1n

B1o

B1p

B1q

B1r

B1s

B1t

B1u

B1v

B1w

B1x

B1y

B1z

B1aa

B1ab

B1ac

B1ad

B1ae

B1af

B1ag

B1ah

B1ai

B1aj

B1ak

B1al

B1am

B1an

B1ao

B1ap

B1aq

B1ar

B1as

B1at

B1au

B1av

B1aw

B1ax

B1ay

B1az

B1ba

B1ca

B1da

B1ea

B1fa

B1ga

B1ha

B1ia

B1ja

B1ka

B1la

B1ma

B1na

B1oa

B1pa

B1qa

B1ra

B1sa

B1ta

B1ua

B1va

B1wa

B1xa

B1ya

B1za

B1ba

B1ca

B1da

B1ea

B1fa

B1ga

B1ha

B1ia

B1ja

B1ka

B1la

B1ma

B1na

B1oa

B1pa

B1qa

B1ra

B1sa

B1ta

B1ua

B1va

B1wa

B1xa

B1ya

B1za

B1ba

B1ca

B1da

B1ea

B1fa

B1ga

B1ha

B1ia

B1ja

B1ka

B1la

B1ma

B1na

B1oa

B1pa

B1qa

B1ra

B1sa

B1ta

B1ua

B1va

B1wa

B1xa

B1ya

B1za

B1ba

B1ca

B1da

B1ea

B1fa

B1ga

B1ha

B1ia

B1ja

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B1ua

B1va

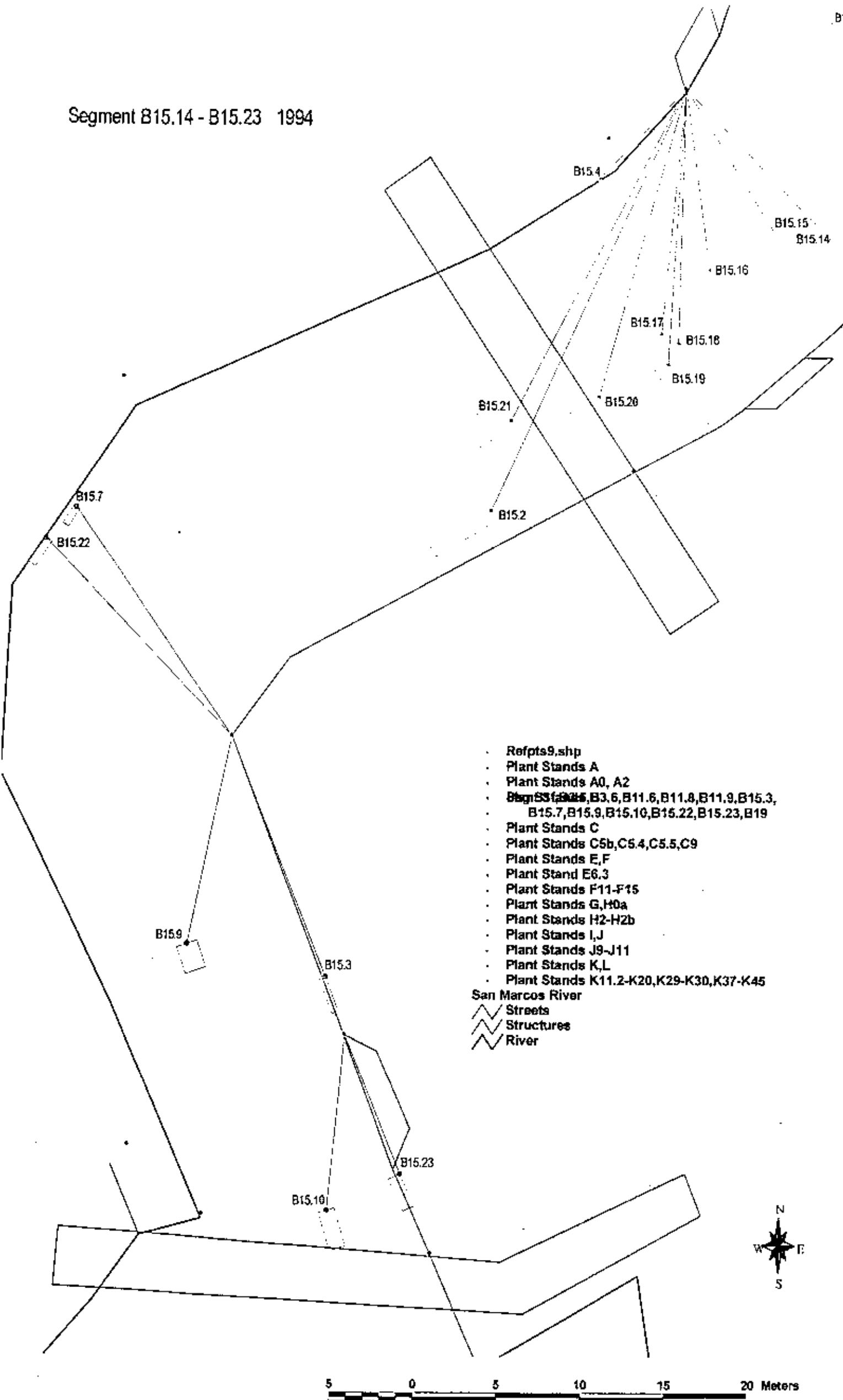
B1wa

B1xa

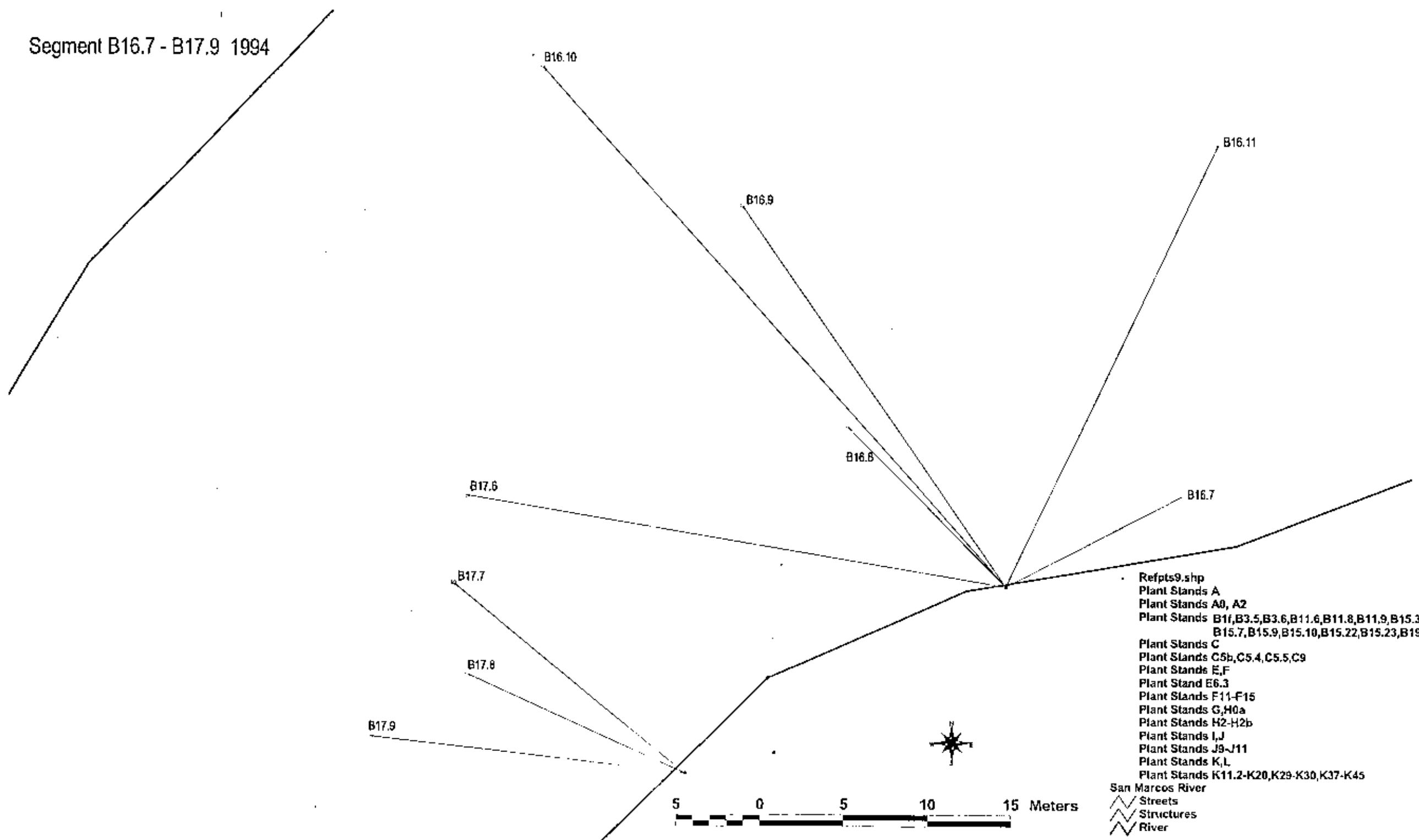
B1ya

B1za

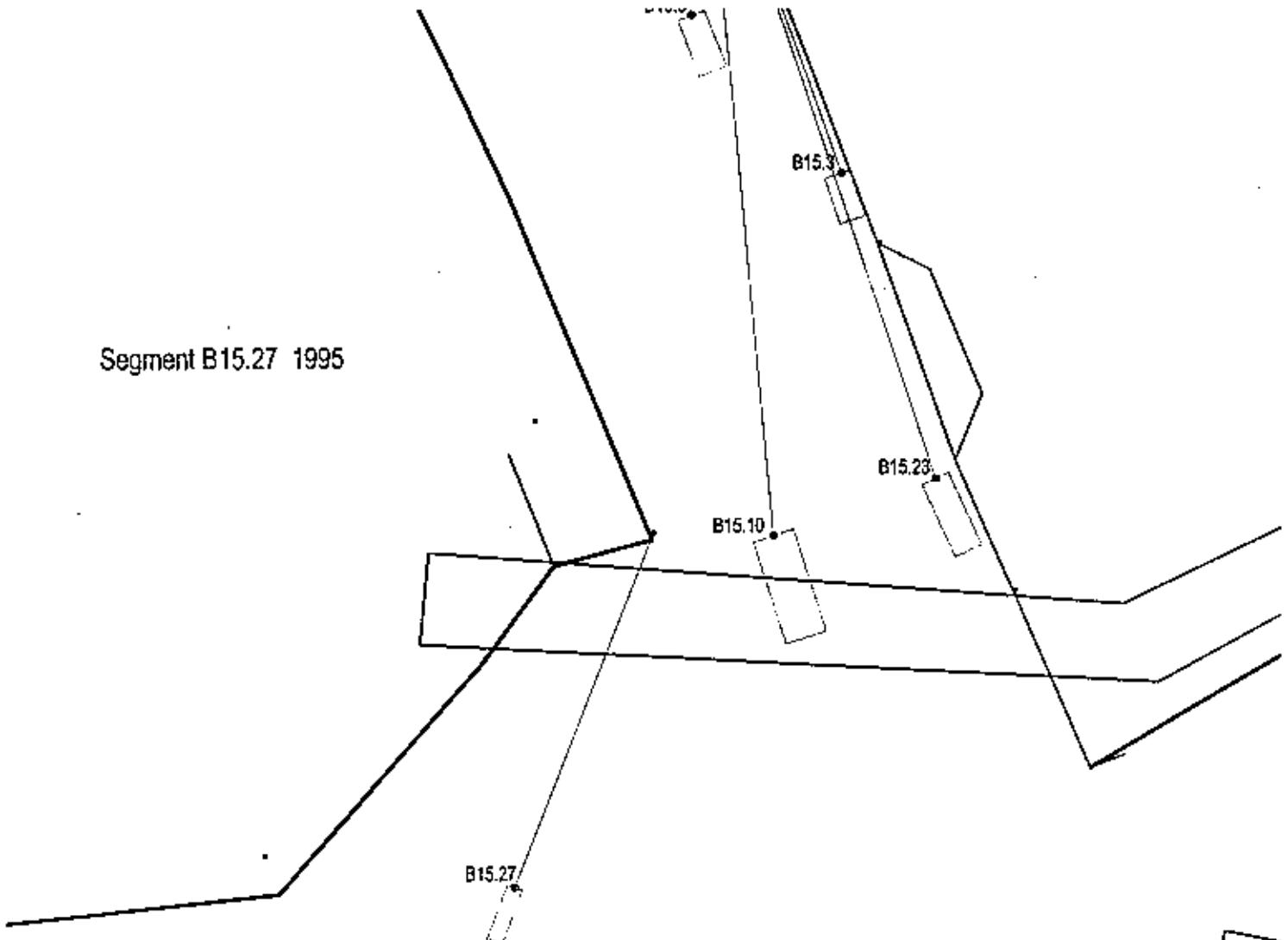
Segment B15.14 - B15.23 1994



Segment B16.7 - B17.9 1994



Segment B15.27 1995



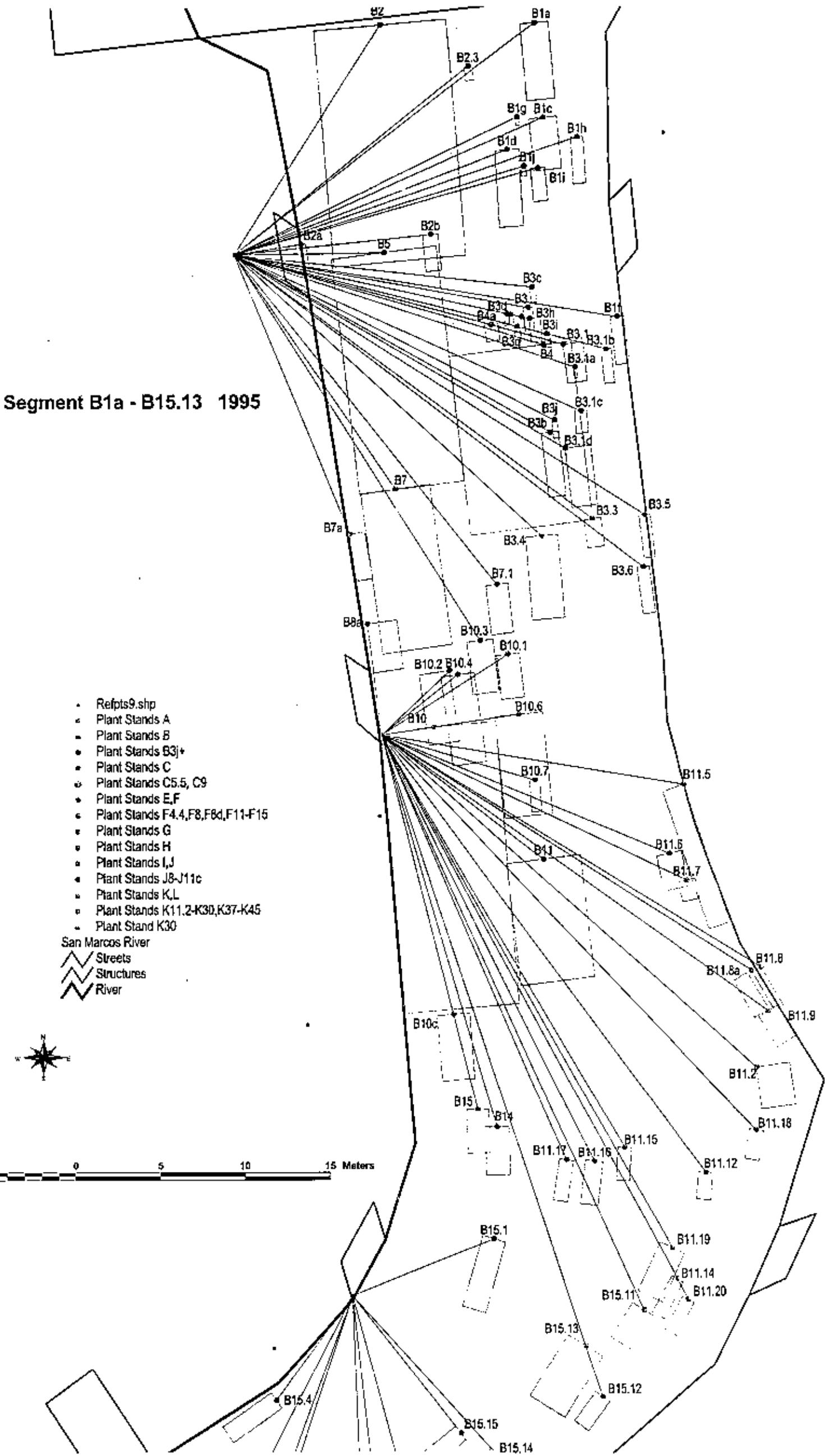
- Repts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands B3]+
- Plant Stands C
- ◆ Plant Stands C5.5, C9
- Plant Stands E,F
- Plant Stands F4.4,FB,F8d,F11-F15
- Plant Stands G
- Plant Stands H
- Plant Stands I,J
- Plant Stands J8-J11c
- Plant Stands K,L
- Plant Stands K11,2-K30,K37-K45
- Plant Stand K30

San Marcos River

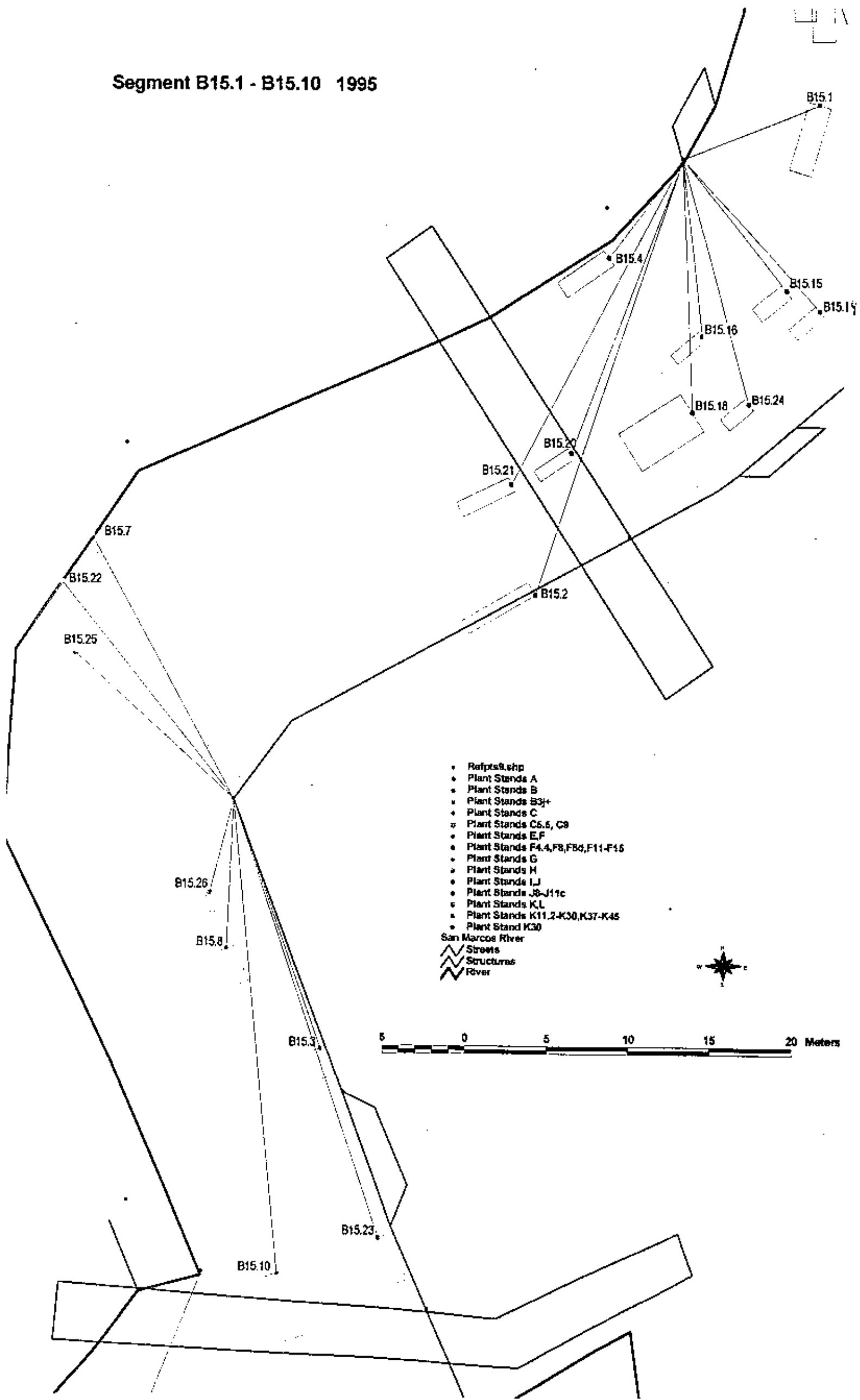
- ✓ Streets
- △ Structures
- ▲ River

5 0 5 10 15 20 25 Meters





**Segment B15.1 - B15.10 1995**



## Segment B18 - B19 1995

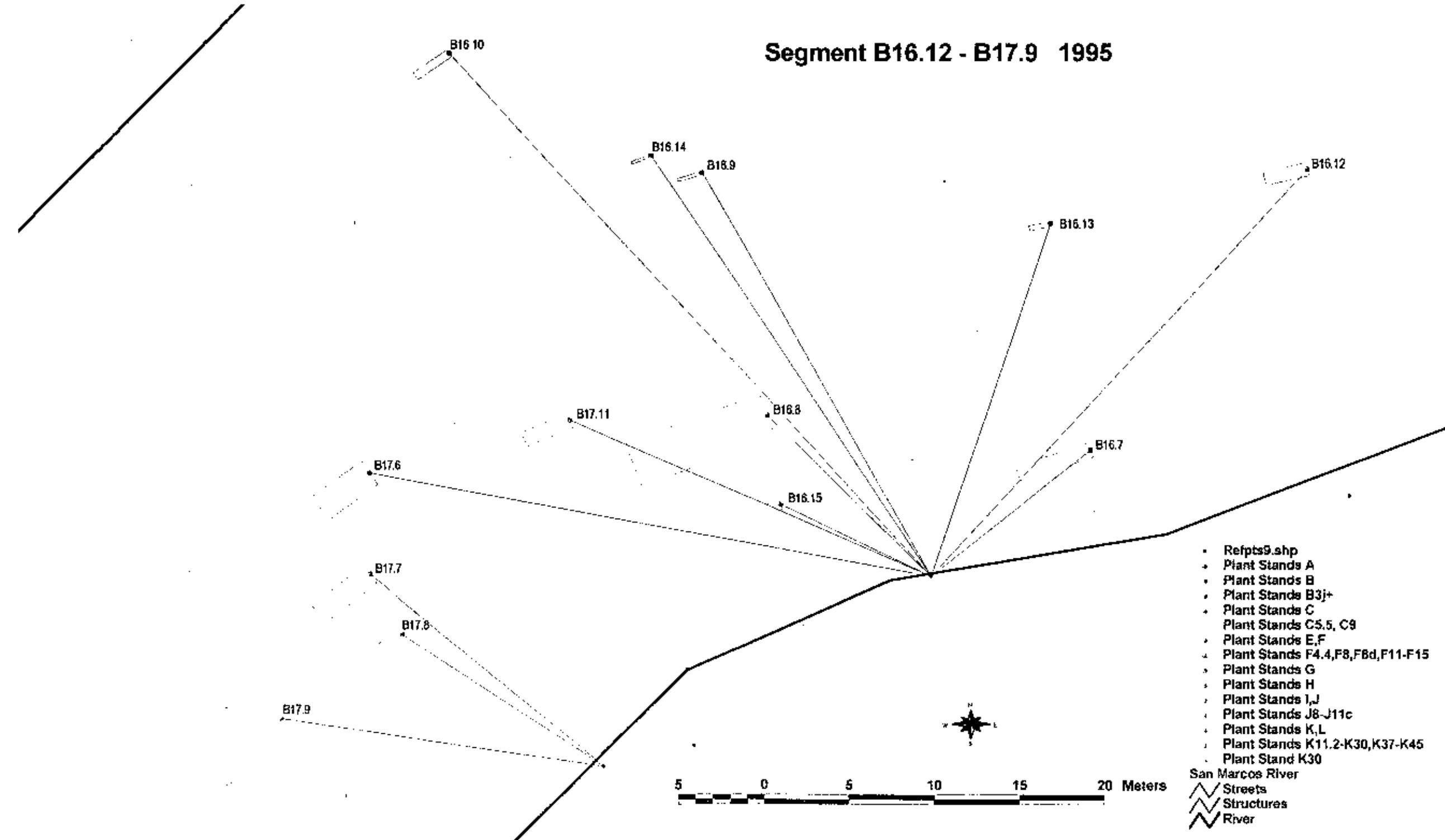
- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands B3j+
- Plant Stands C
- Plant Stands C5.5, C9
- Plant Stands E,F
- Plant Stands F4.4,F6,F8d,F11-F15
- Plant Stands G
- Plant Stands H
- Plant Stands I,J
- Plant Stands J8-J11c
- Plant Stands K,L
- Plant Stands K11.2-K30,K37-K45
- Plant Stand K30

San Marcos River  
Streets  
Structures  
River

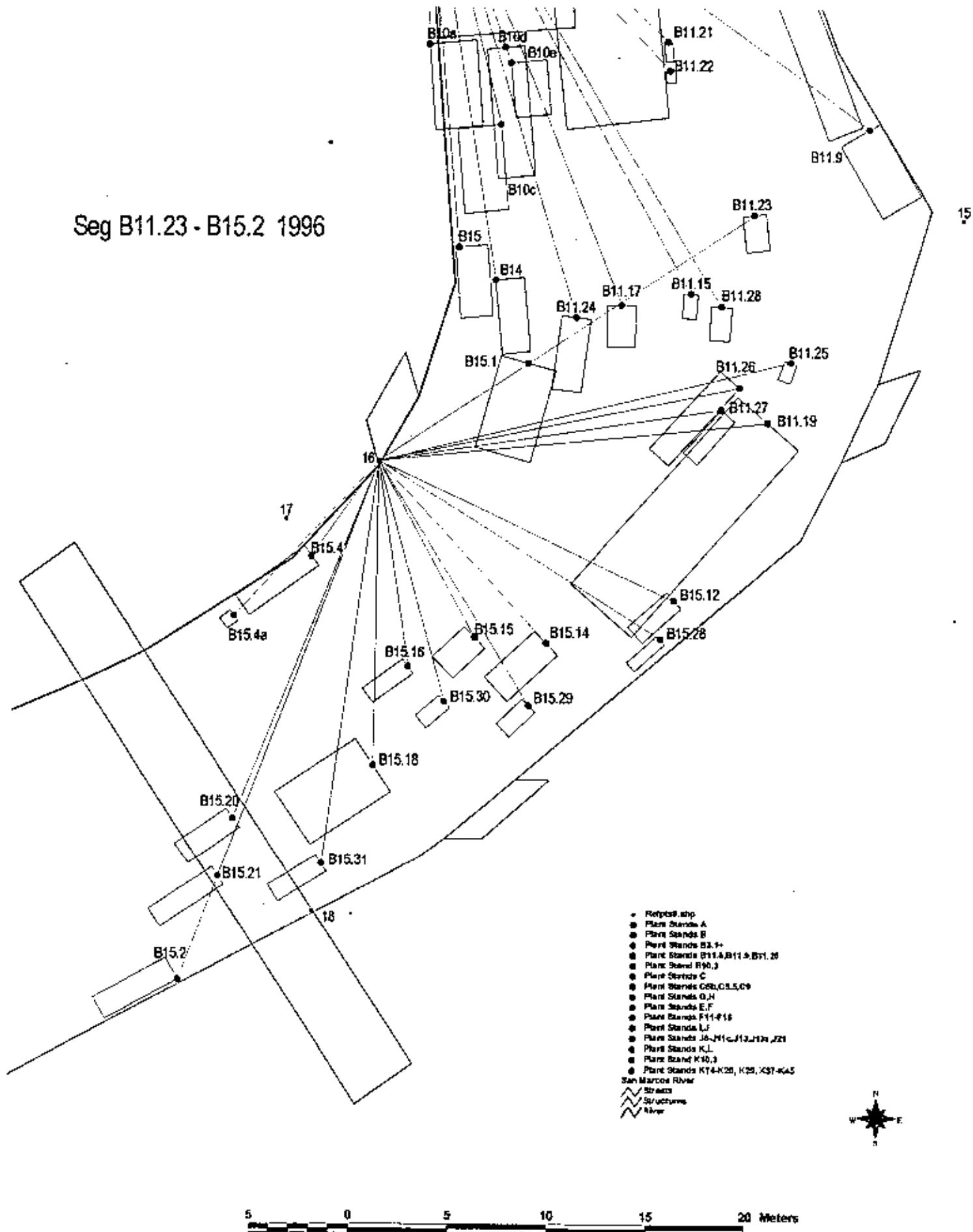


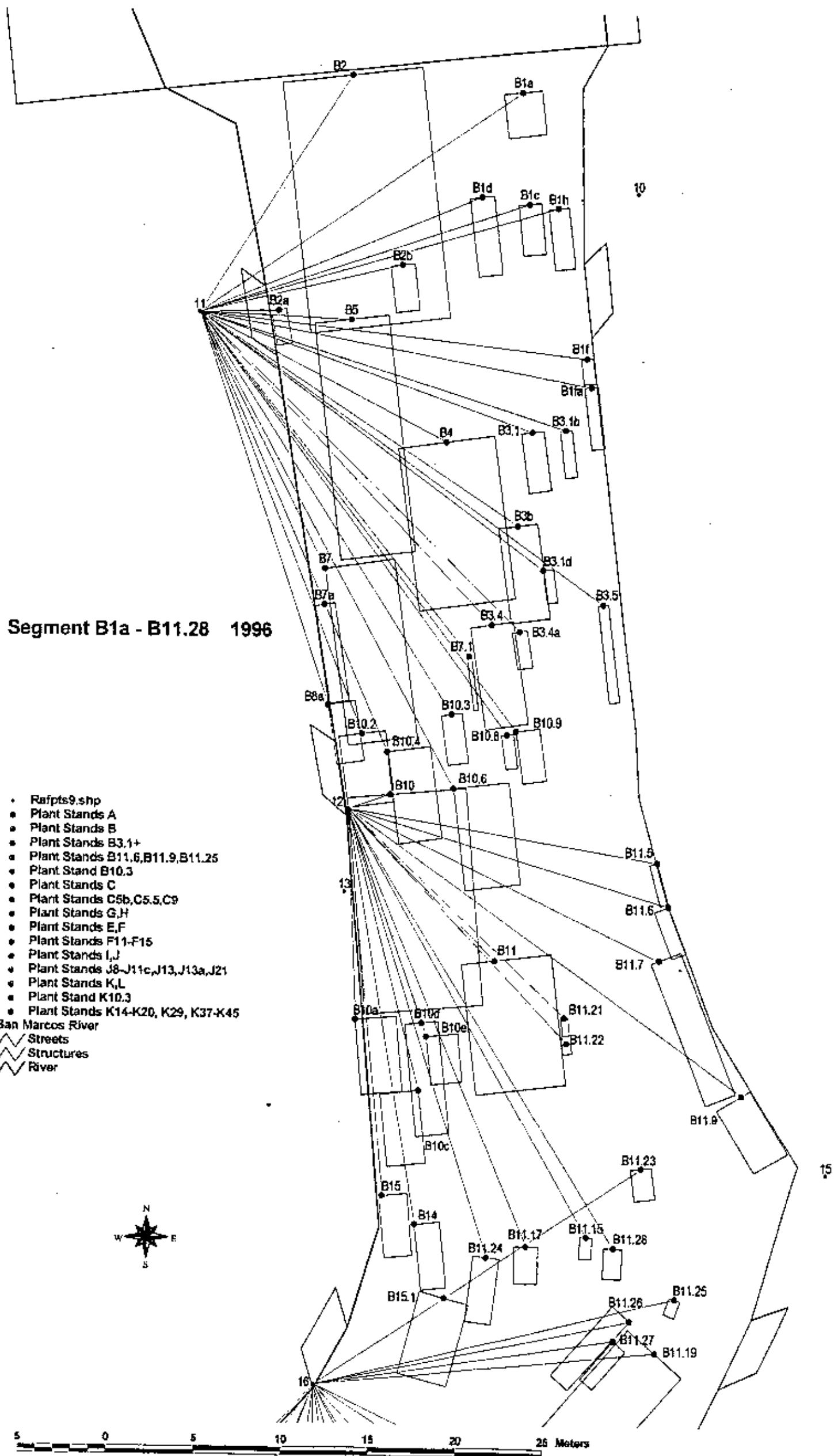
0 5 10 15 20 25 Meters

## Segment B16.12 - B17.9 1995

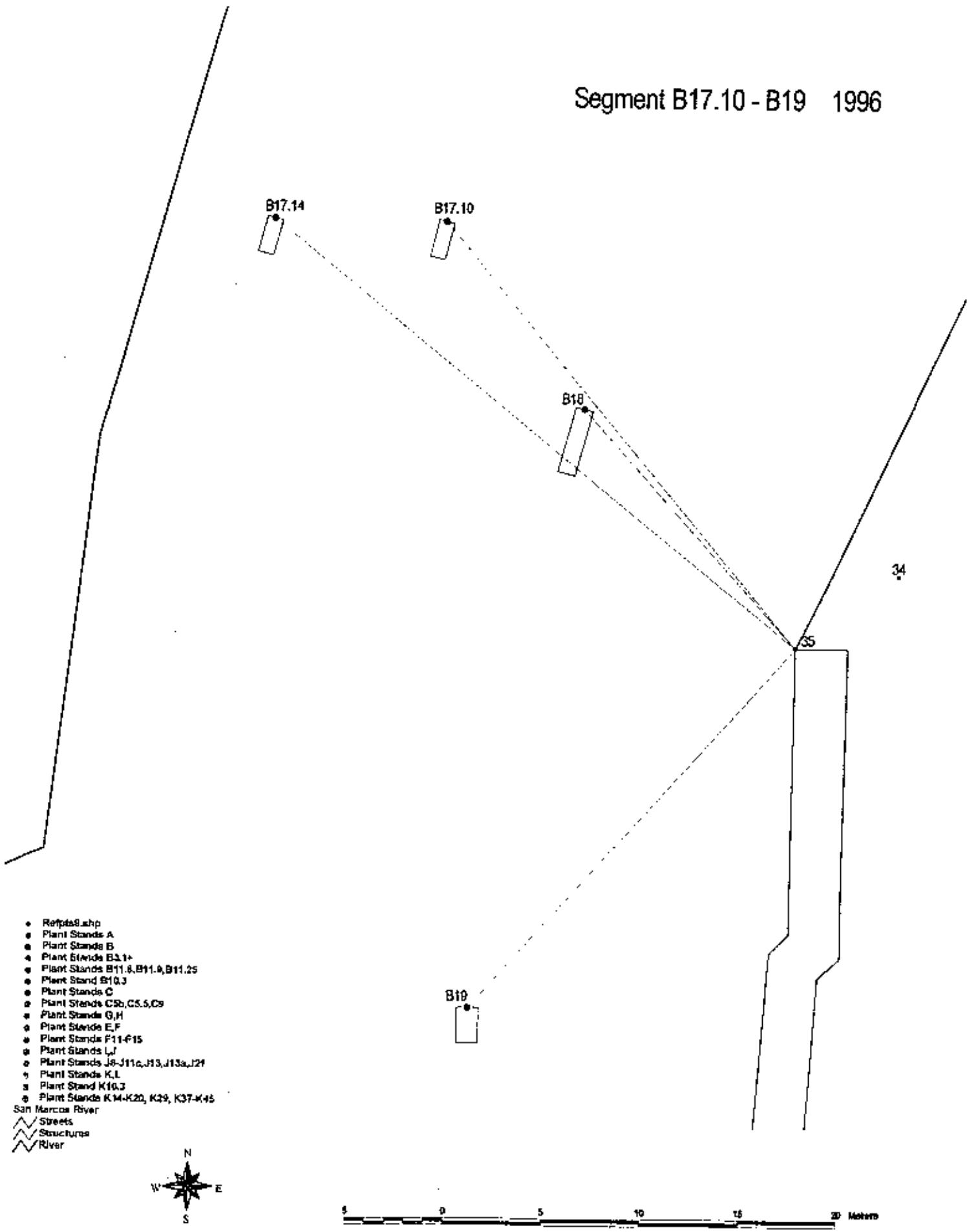


Seg B11.23 - B15.2 1996



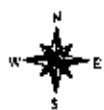


# Segment B17.10 - B19 1996



Segment B20, B21 1996

- Refpt0.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands B3.1+
  - Plant Stands B1.6,B11.6,B11.26
  - Plant Stand B10.3
  - Plant Stands C
  - Plant Stands C5b,C5.5,C9
  - Plant Stands G,H
  - Plant Stands E,F
  - Plant Stands F11-F15
  - Plant Stands I,J
  - Plant Stands J1-J11c,H3,H3a,J21
  - Plant Stands K,L
  - Plant Stand K10.3
  - Plant Stands K14-K20,K29,K37-K45
- San Marcos River
- ✓ Streets
  - ✓ Structures
  - ✓ River



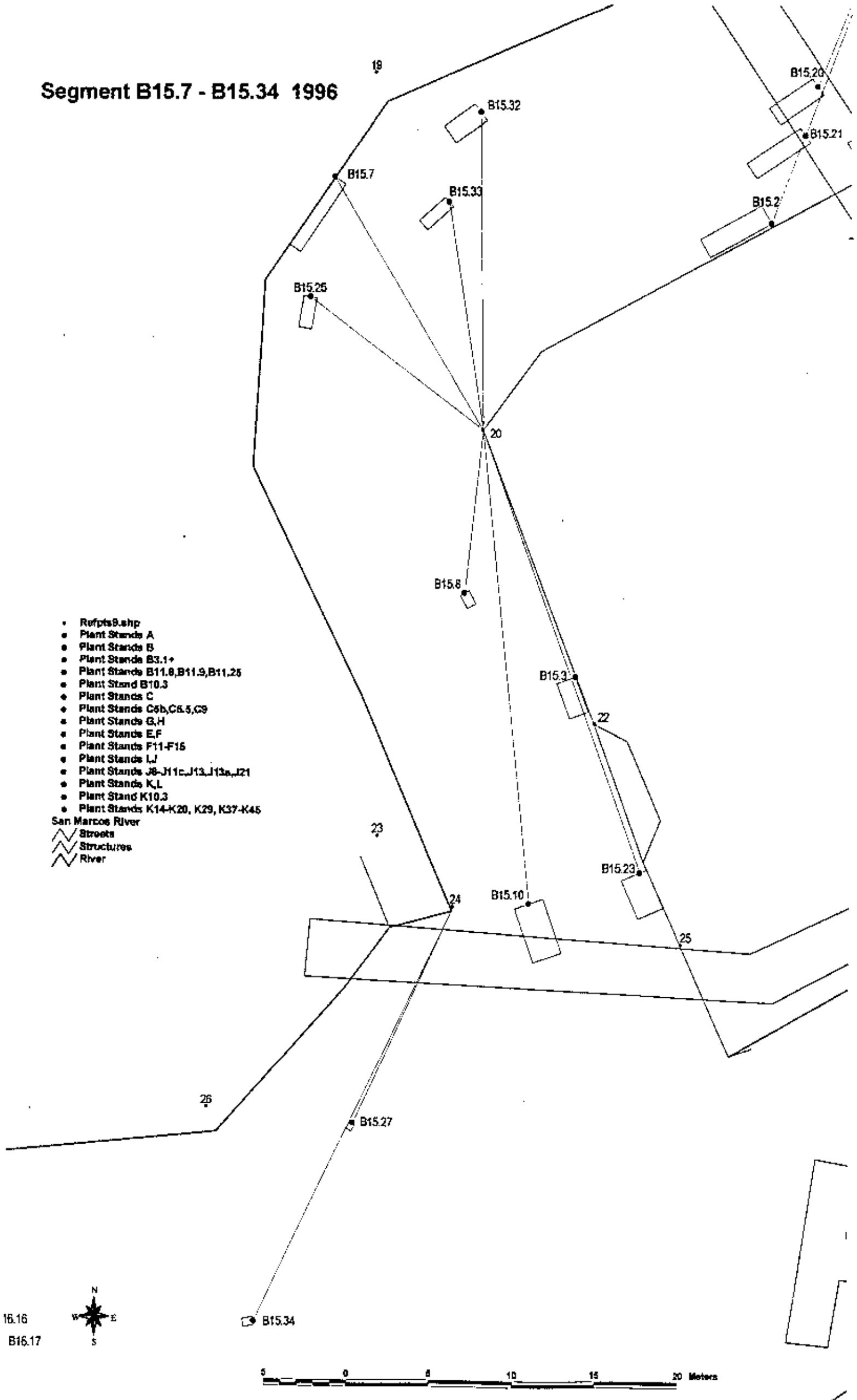
0 5 10 15 20 Meters

# Segment B15.7 - B15.34 1996

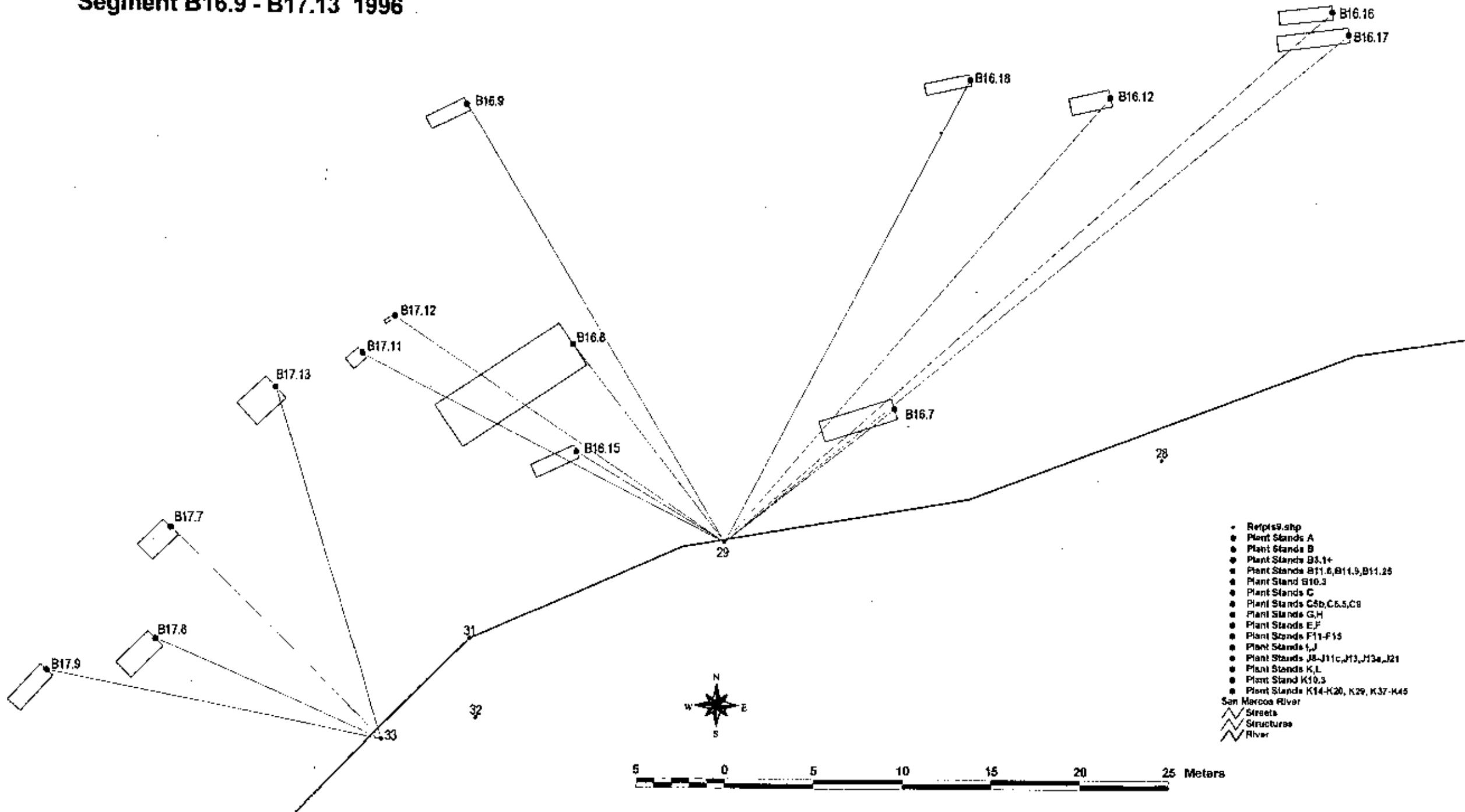
- Repts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands B3.1+
- Plant Stands B11.8,B11.9,B11.25
- Plant Stand B10.3
- Plant Stands C
- Plant Stands C6b,C6.5,C9
- Plant Stands G,H
- Plant Stands E,F
- Plant Stands F11-F15
- Plant Stands I,J
- Plant Stands J8-J11c,J13,J13a,J21
- Plant Stands K,L
- Plant Stand K10.3
- Plant Stands K14-K20, K29, K37-K45

San Marcos River

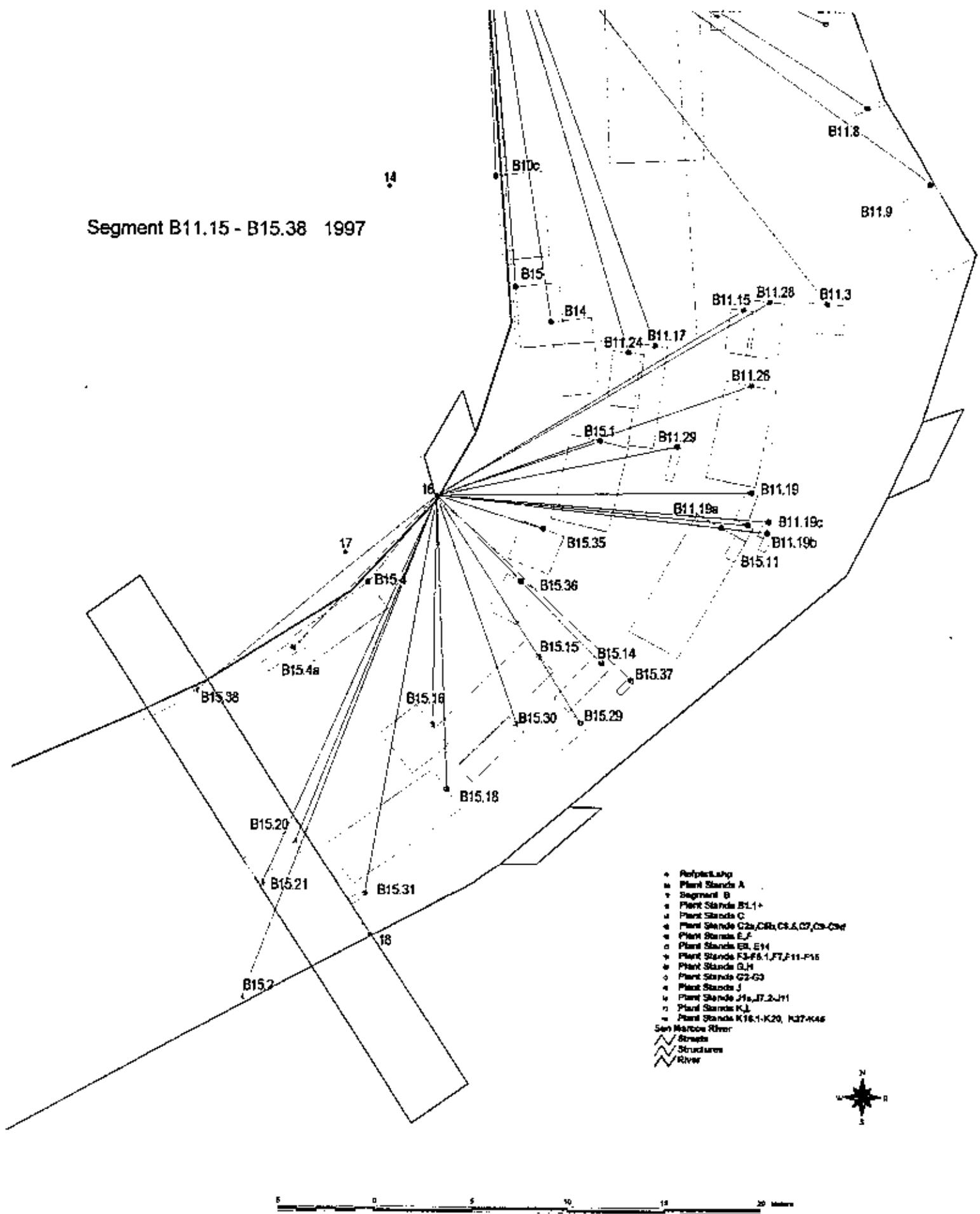
- Streets
- Structures
- River

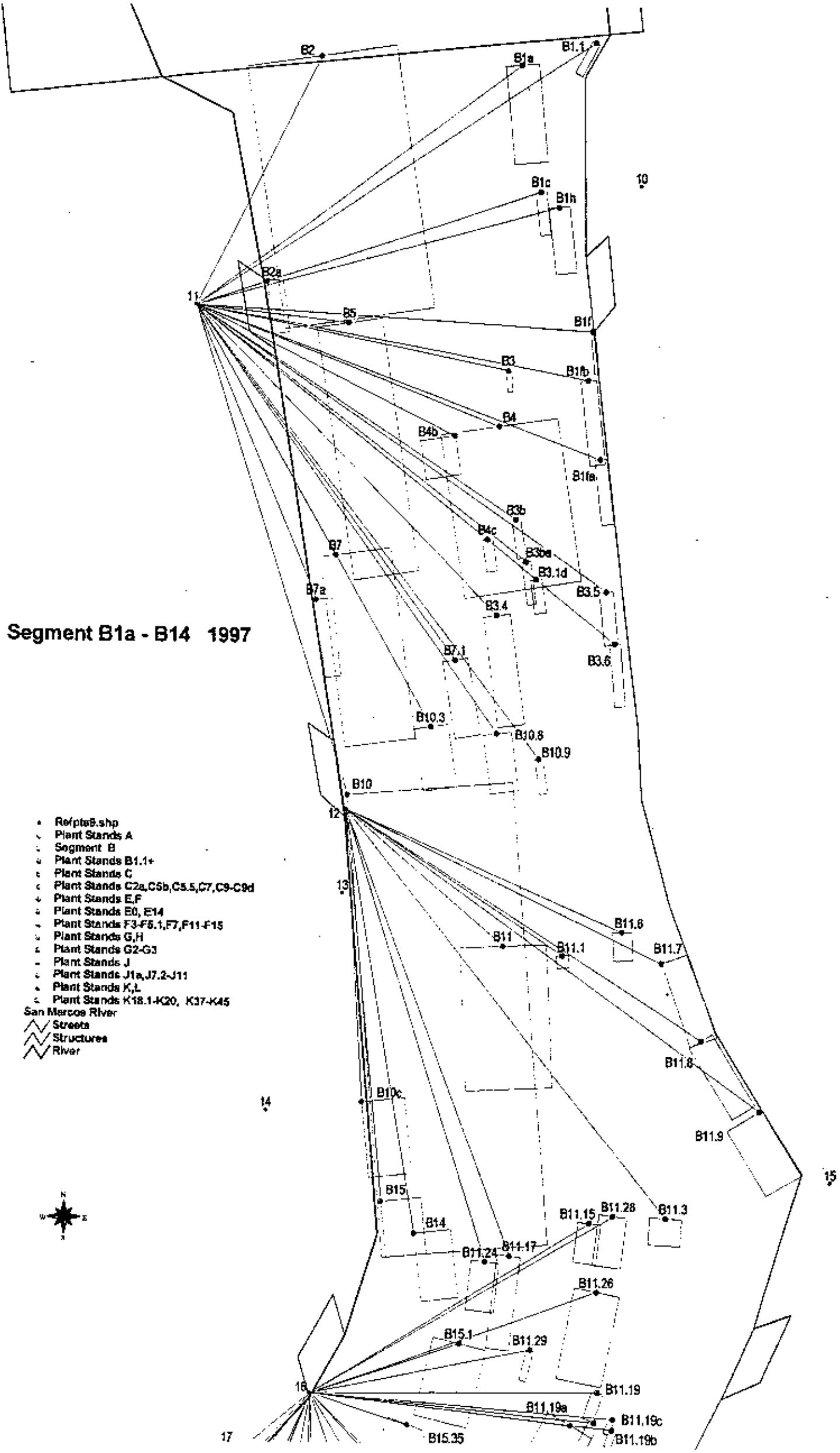


## Segment B16.9 - B17.13 1996



Segment B11.15 - B15.38 1997





Segment B17.10 - B19 1997

- Rupto9.shp
  - ▲ Plant Stands A
  - Segment B
  - ▷ Plant Stands B1.1+
  - ▷ Plant Stands C
  - ▷ Plant Stands C2a,C9b,C6.5,C7,C8-C9d
  - ▷ Plant Stands E,F
  - ▷ Plant Stands E9,E14
  - ▷ Plant Stands F3-F5.1,F7,F15,F16
  - ▷ Plant Stands G,H
  - ▷ Plant Stands G2-G3
  - ▷ Plant Stands J
  - ▷ Plant Stands J1a,J7.2-J11
  - ▷ Plant Stands K,L
  - ▷ Plant Stands K1a.1-K20, K37-K45
- San Marcos River
- ✓ Streets
  - ✓ Structures
  - ✓ River



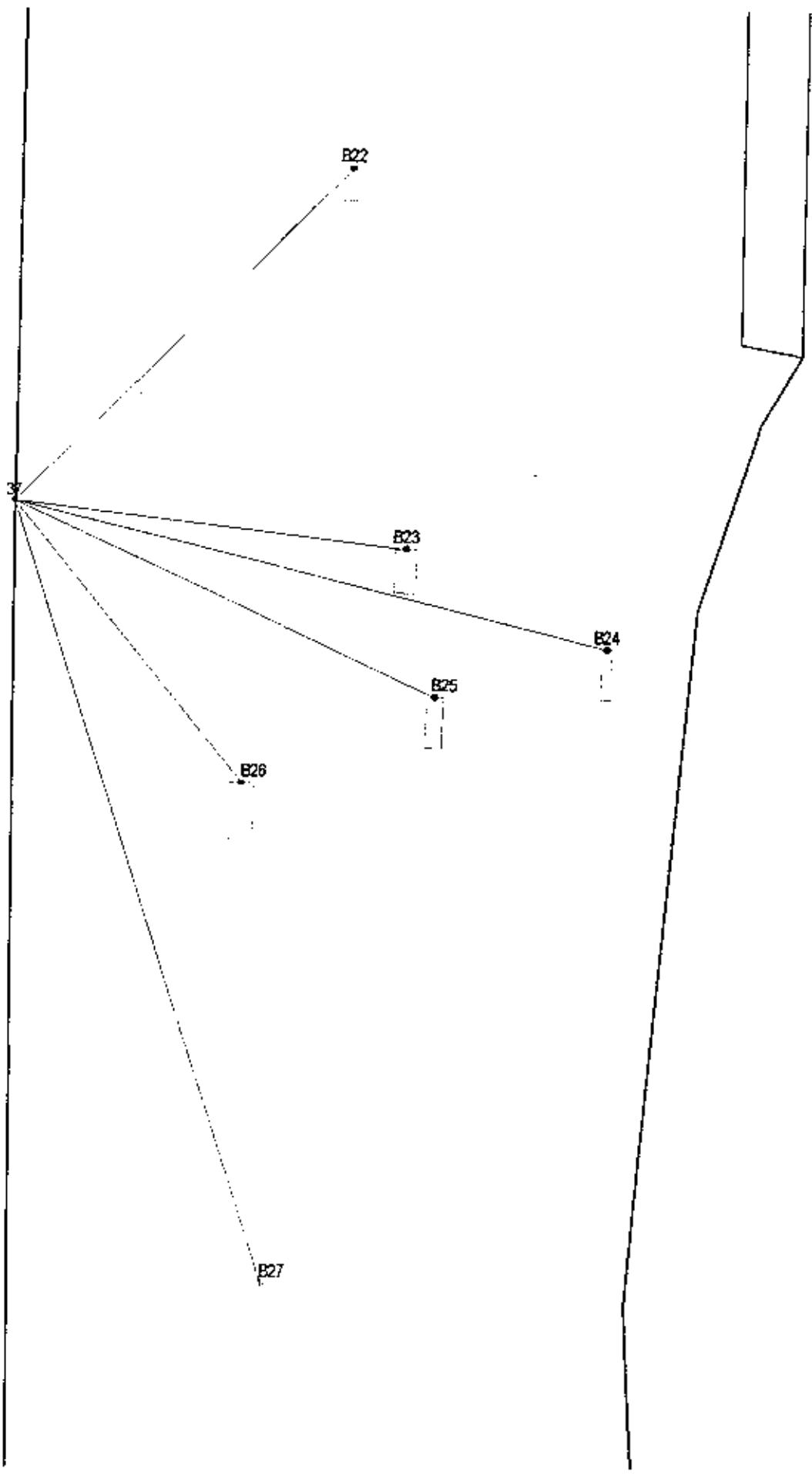
5 0 5 10 15 20 Meters

34

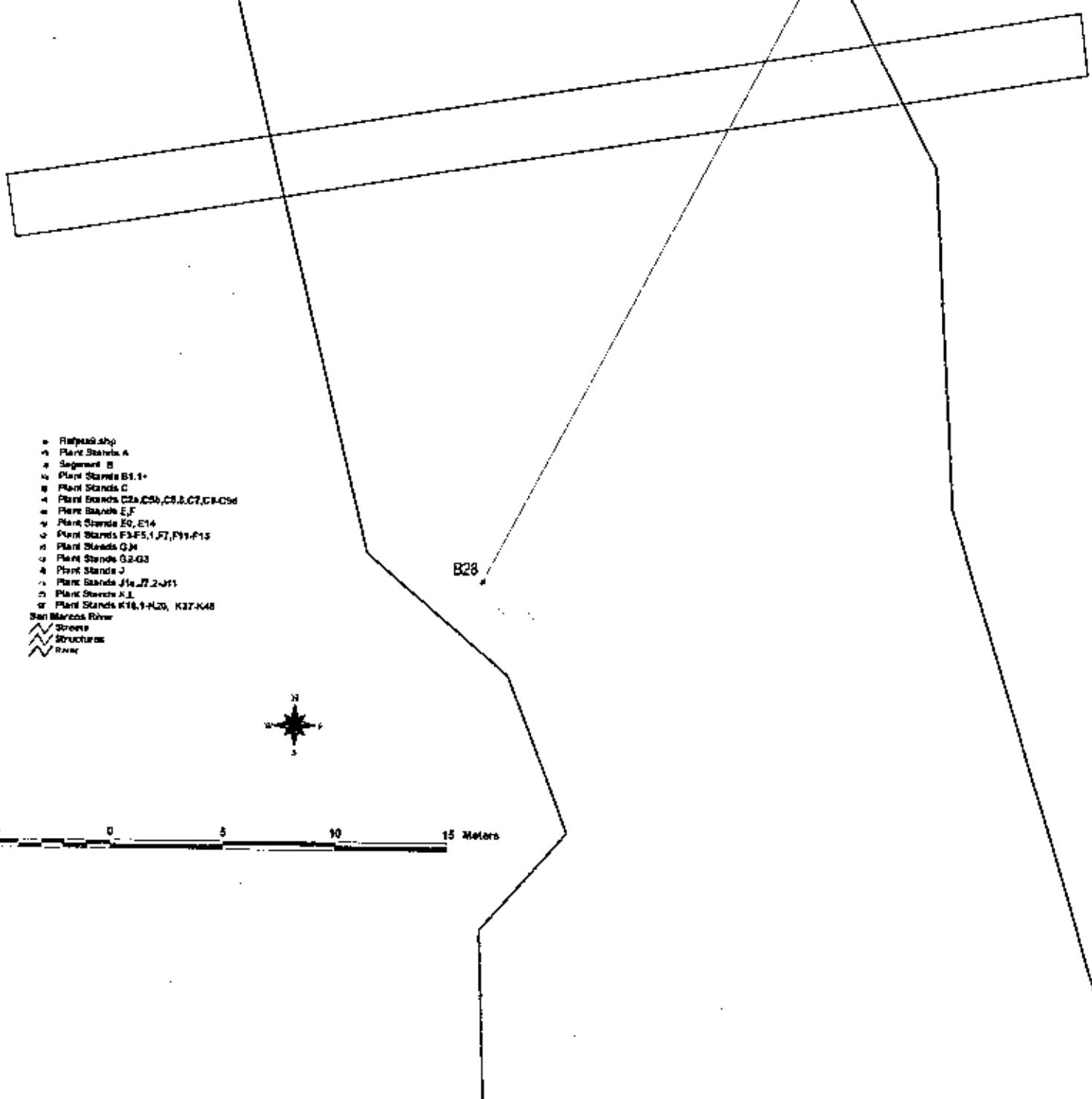
35

Segment B22 - B27 - 1997

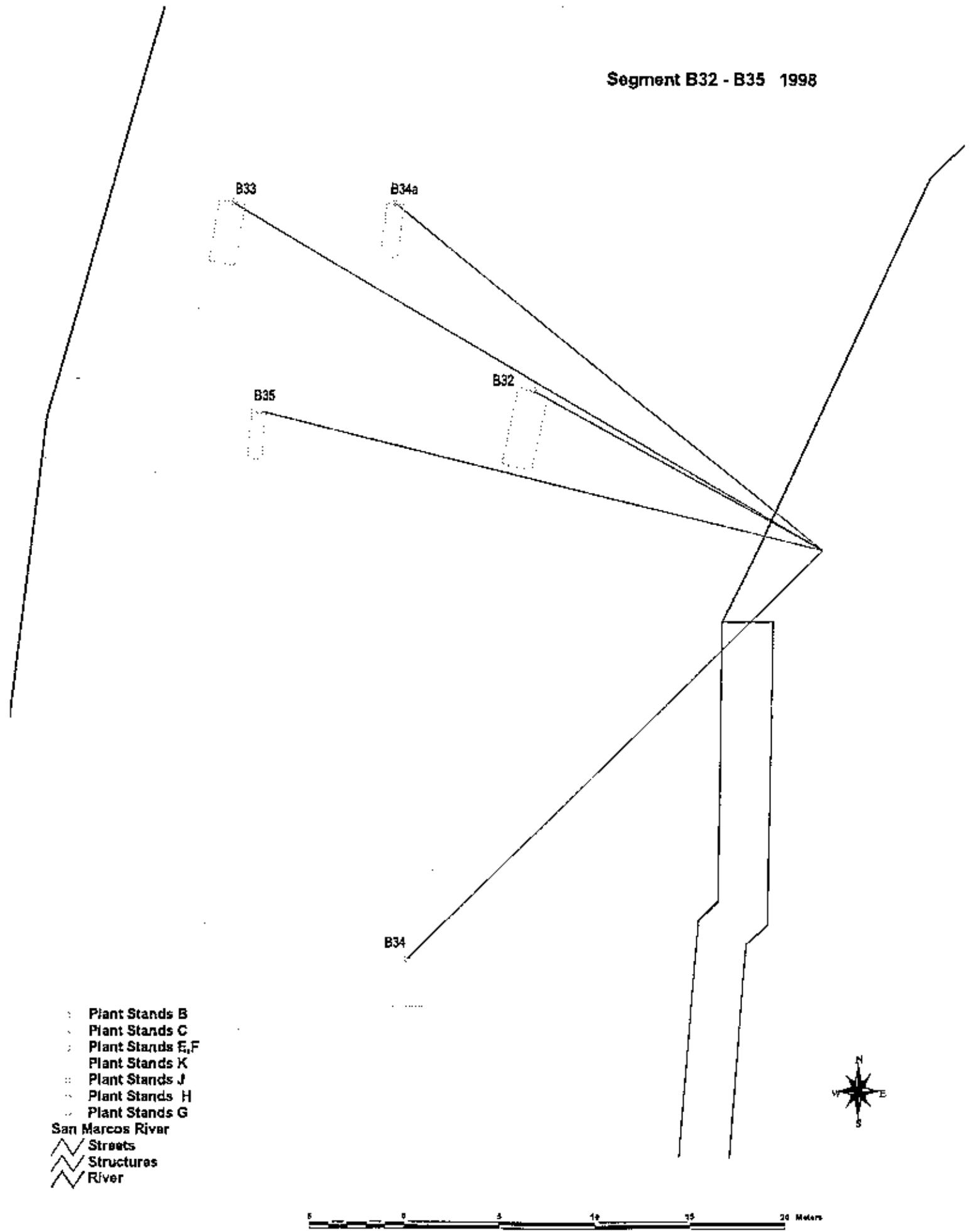
- Reprof. ship
  - ▲ Plant Stands A
  - △ Segment B
  - ▷ Plant Stands B1,1+
  - ◁ Plant Stands C
  - ◆ Plant Stands C2a,C2b,C3a,C7,C8-C9d
  - ◆ Plant Stands E,F
  - ◆ Plant Stands E9,E14
  - ◆ Plant Stands F3-F5,1.F7,F19-F15
  - ◆ Plant Stands G,H
  - ◆ Plant Stands G2-G3
  - ◆ Plant Stands J
  - ◆ Plant Stands J1a,J7,J2,J11
  - ◆ Plant Stands K,L
  - ◆ Plant Stands K18,1-K20, K37-K45
- Salt Marsh River
- ~~~~~ Streets
  - ~~~~~ Structures
  - ~~~~~ River



Segment B28 1997

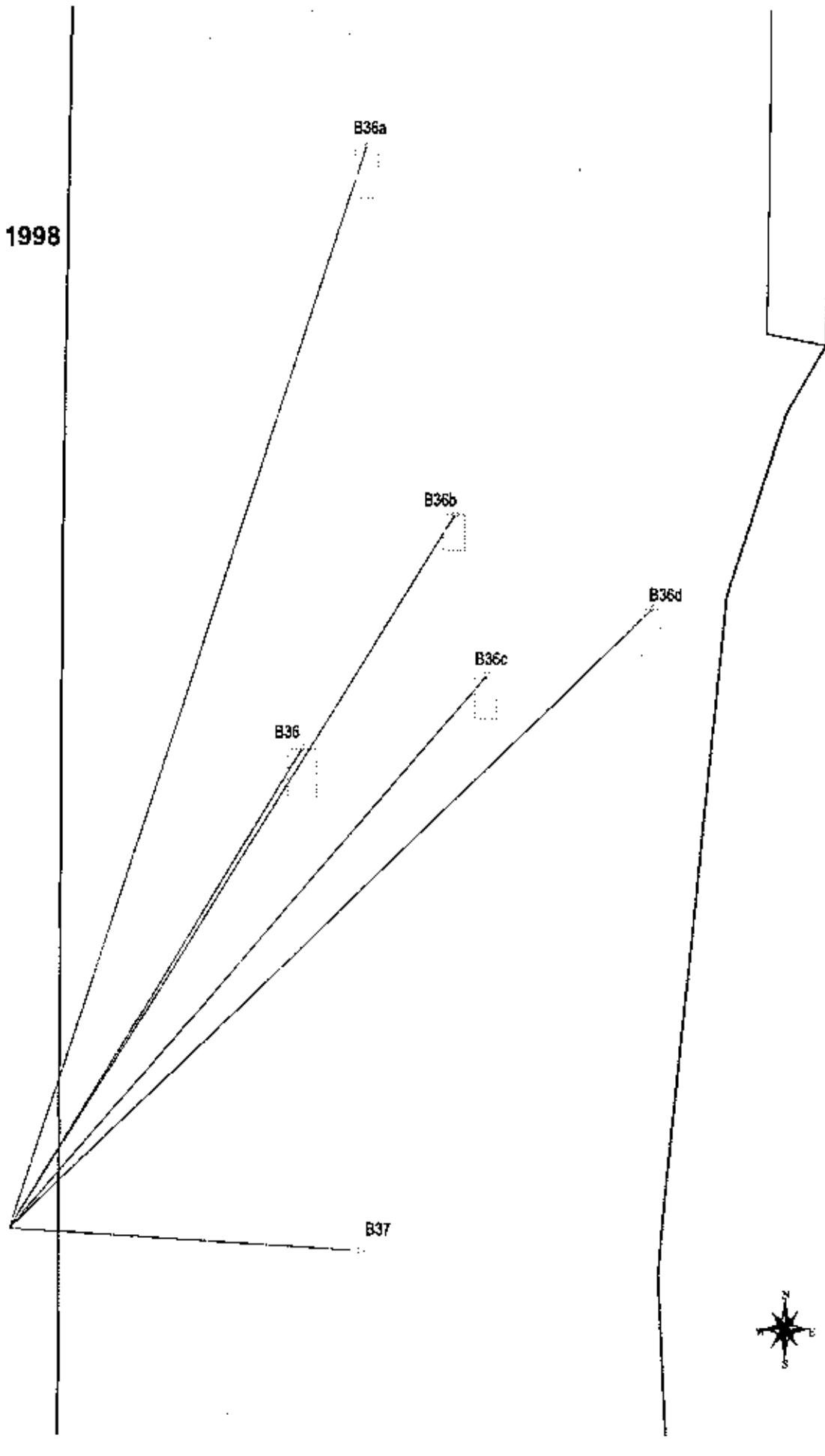


**Segment B32 - B35 1998**

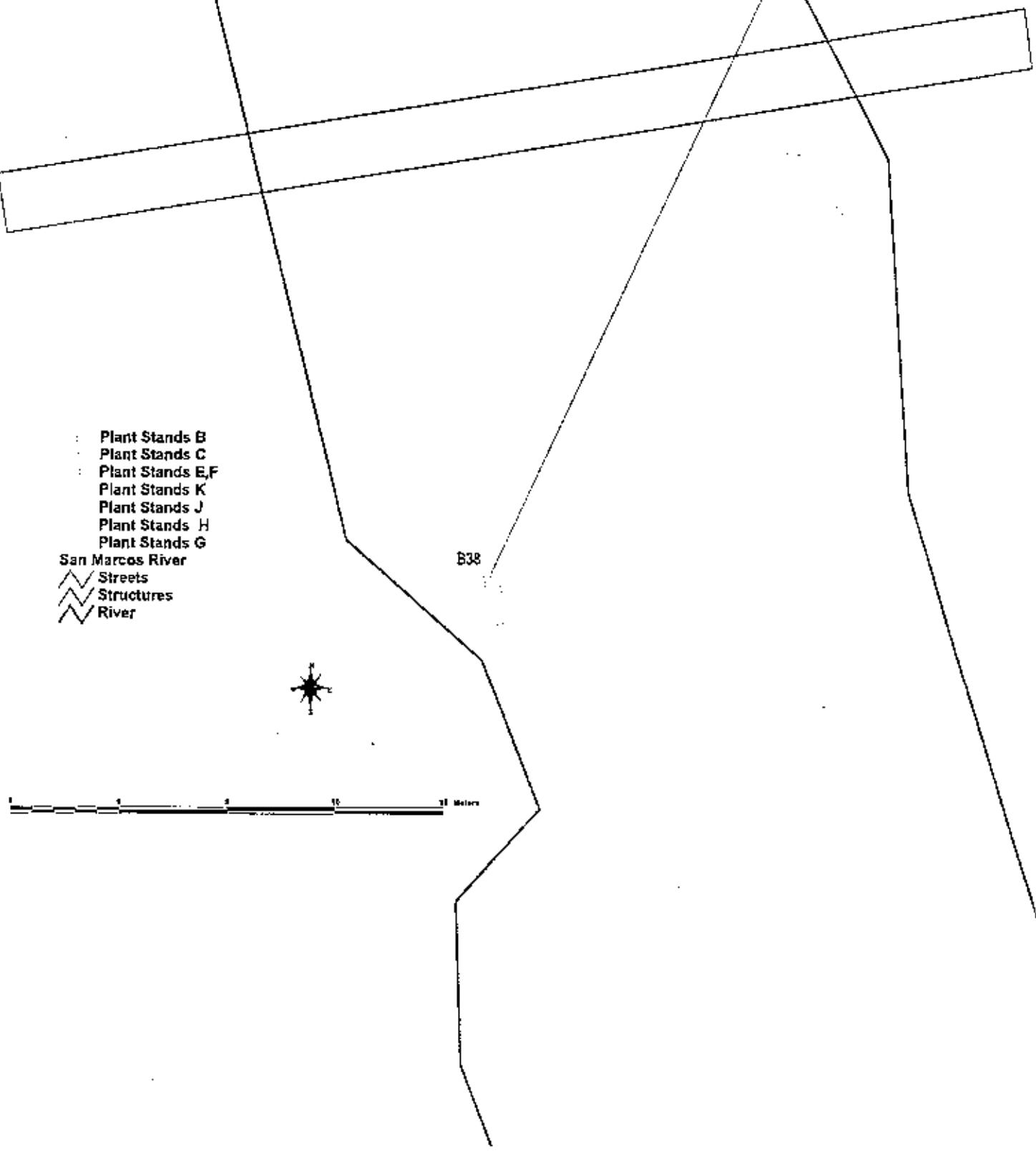


**Segment B36 - B37 1998**

- Plant Stands B
  - Plant Stands C
  - Plant Stands E,F
  - Plant Stands K
  - Plant Stands J
  - Plant Stands H
  - Plant Stands G
- San Marcos River**
- Streets
  - Structures
  - River



Segment B38 1998



Segment B15.7- B15.34 1997

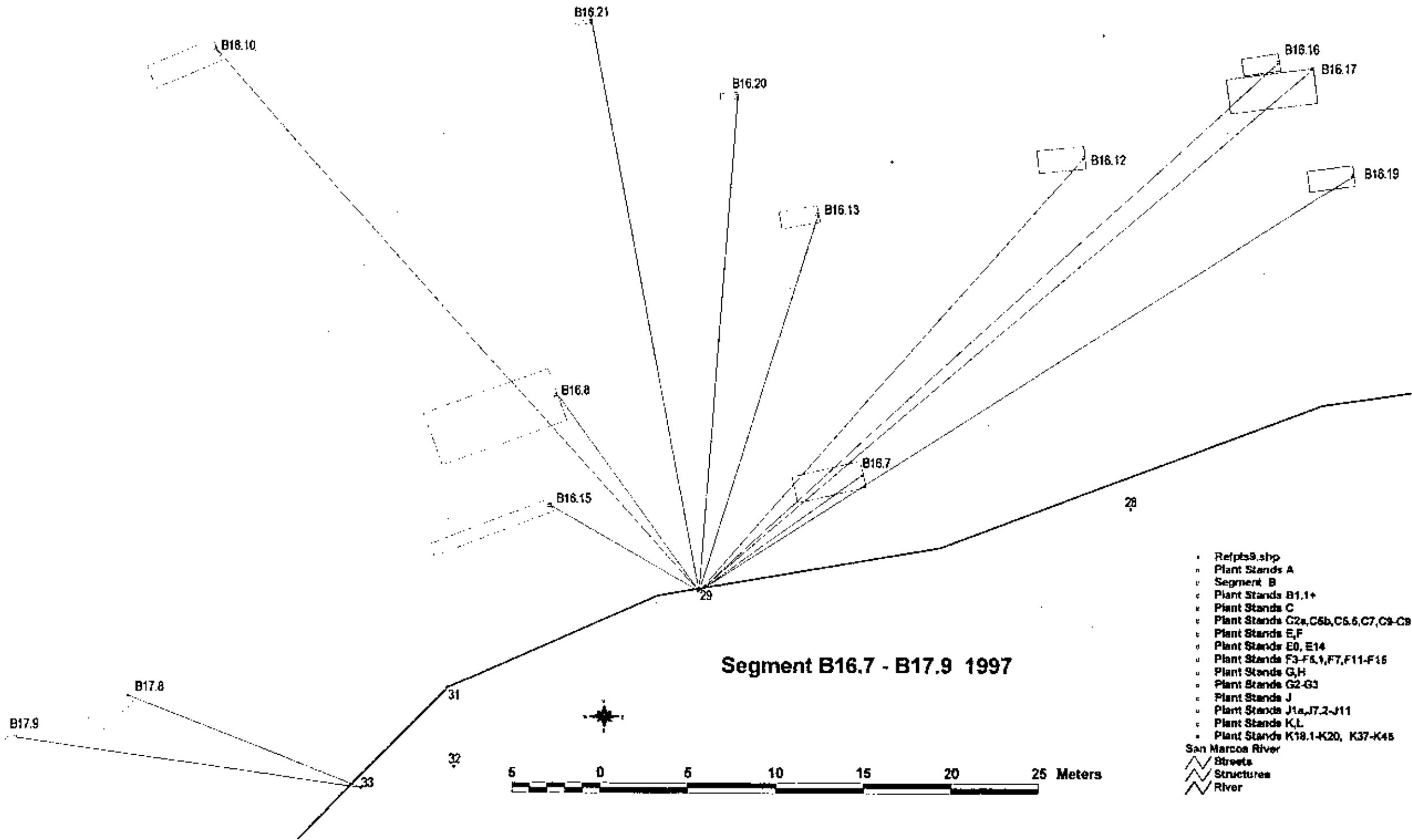
- Refps9.shp
- Plant Stands A
- Segment B
- Plant Stands B1.1+
- Plant Stands C
- Plant Stands C2a,C6b,C5.5,C7,C9-C9d
- Plant Stands E,F
- Plant Stands E0, E14
- Plant Stands F3-F5.1,F7,F11,F15
- Plant Stands G,H
- Plant Stands G2-G3
- Plant Stands J
- Plant Stands J1a,J7.2-J11
- Plant Stands K,L
- Plant Stands K18.1-K20, K37-K45
- San Marcos River
- ~ Streets
- ~~ Structures
- ~~~ River



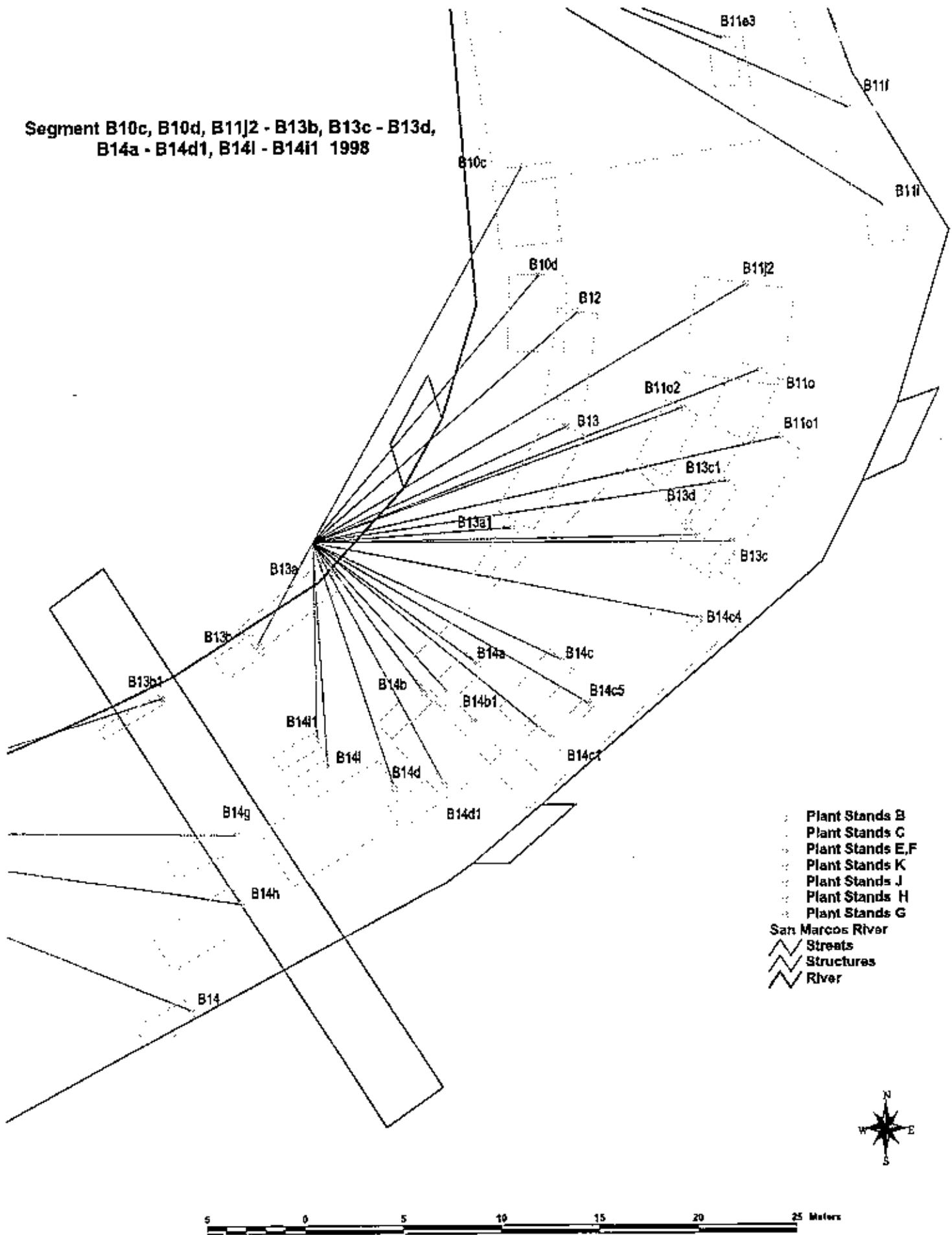
6.17

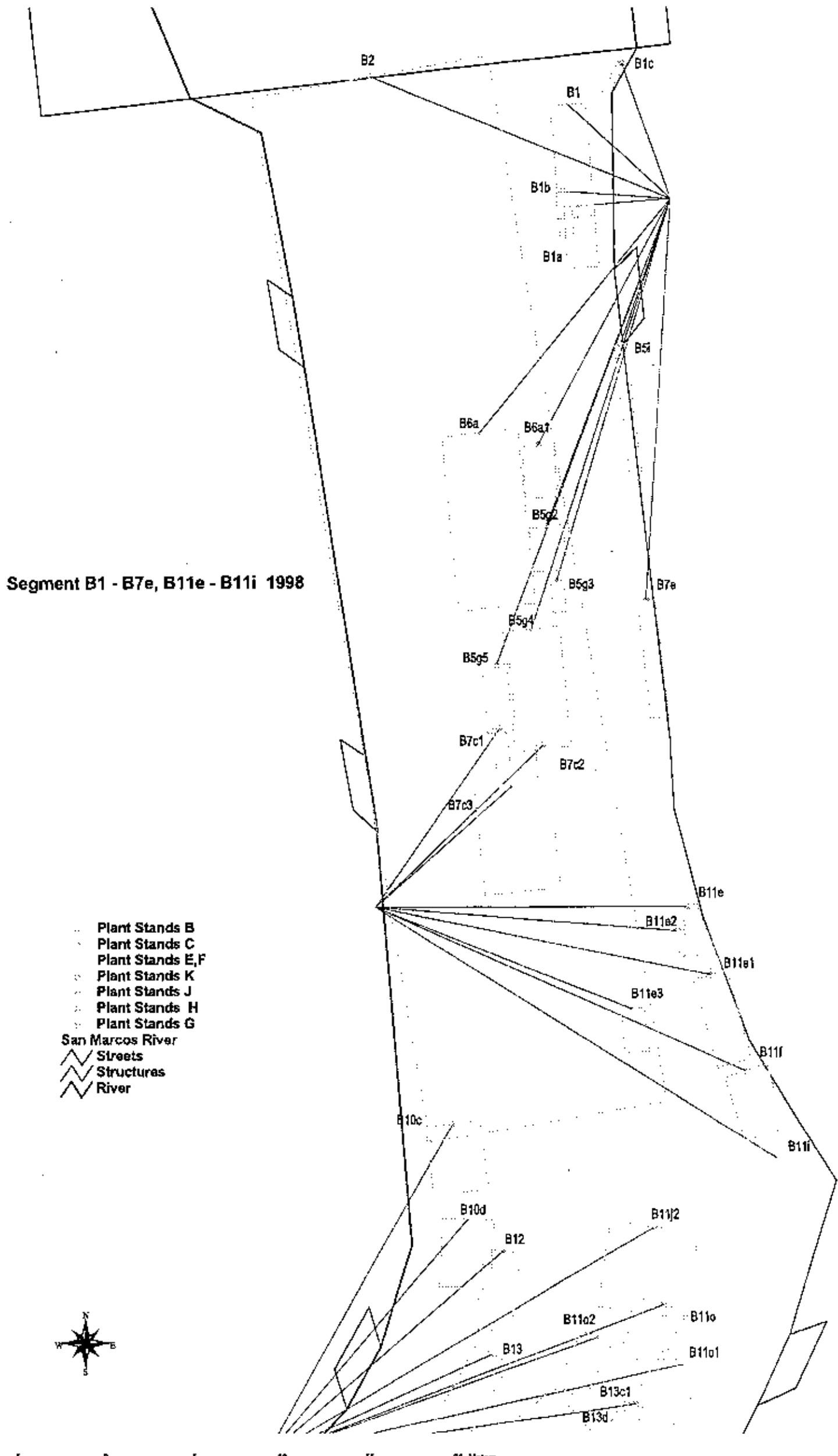
B15.34

0 5 10 15 Meters



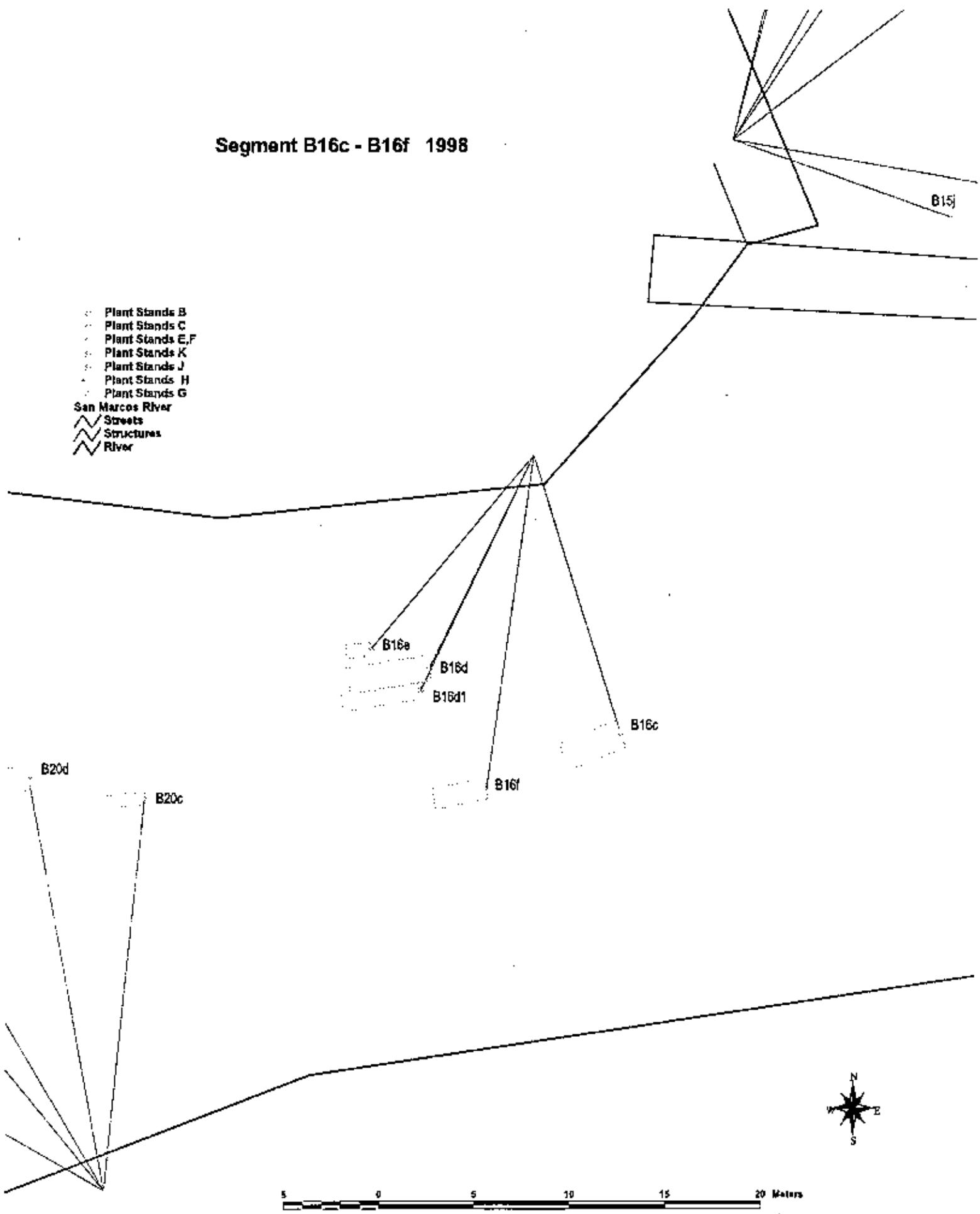
**Segment B10c, B10d, B11j2 - B13b, B13c - B13d,  
B14a - B14d1, B14l - B14i1 1998**



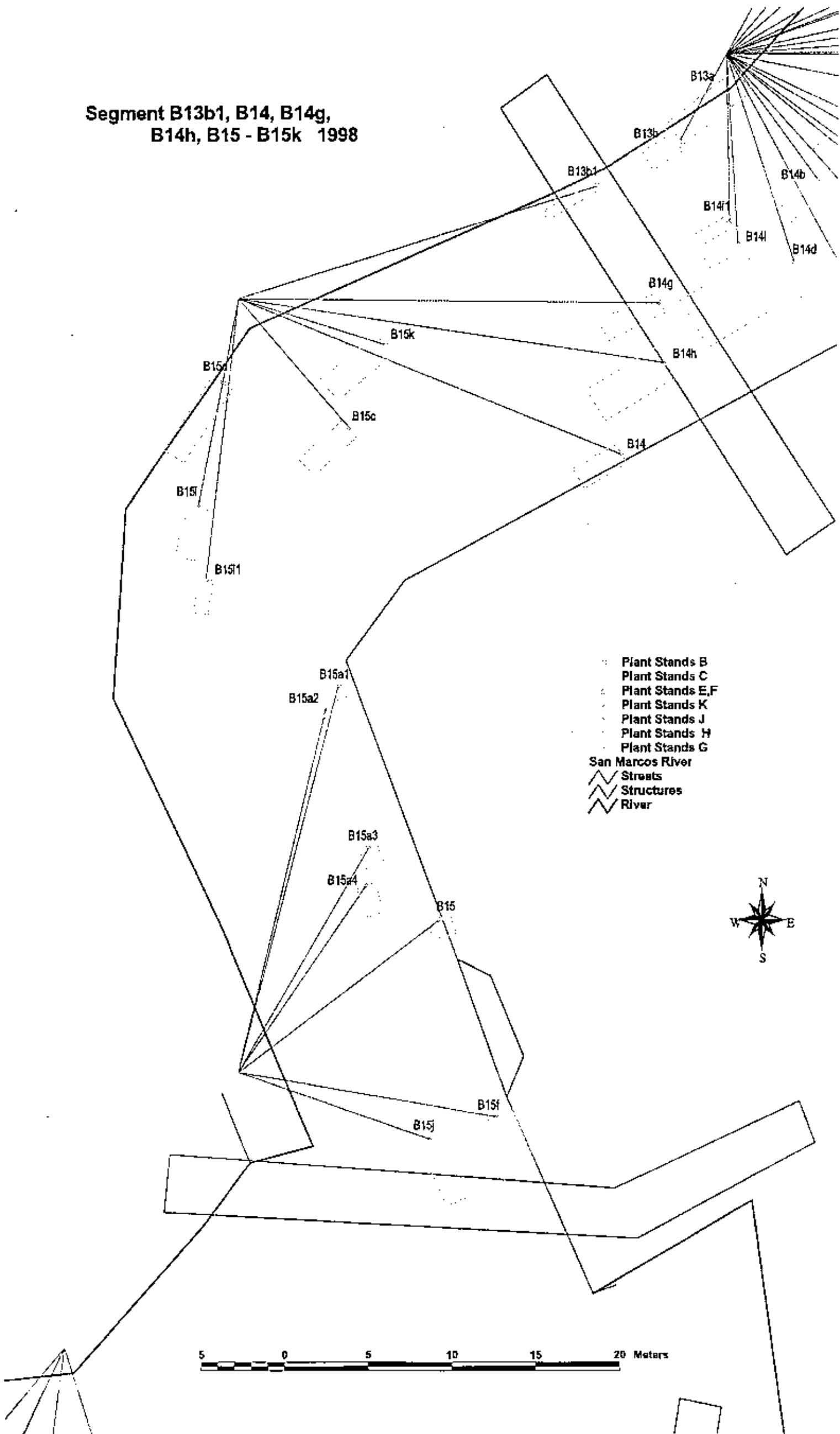


### Segment B16c - B16f 1998

- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands K
- Plant Stands J
- △ Plant Stands H
- △ Plant Stands G
- San Marcos River
- Streets
- Structures
- River

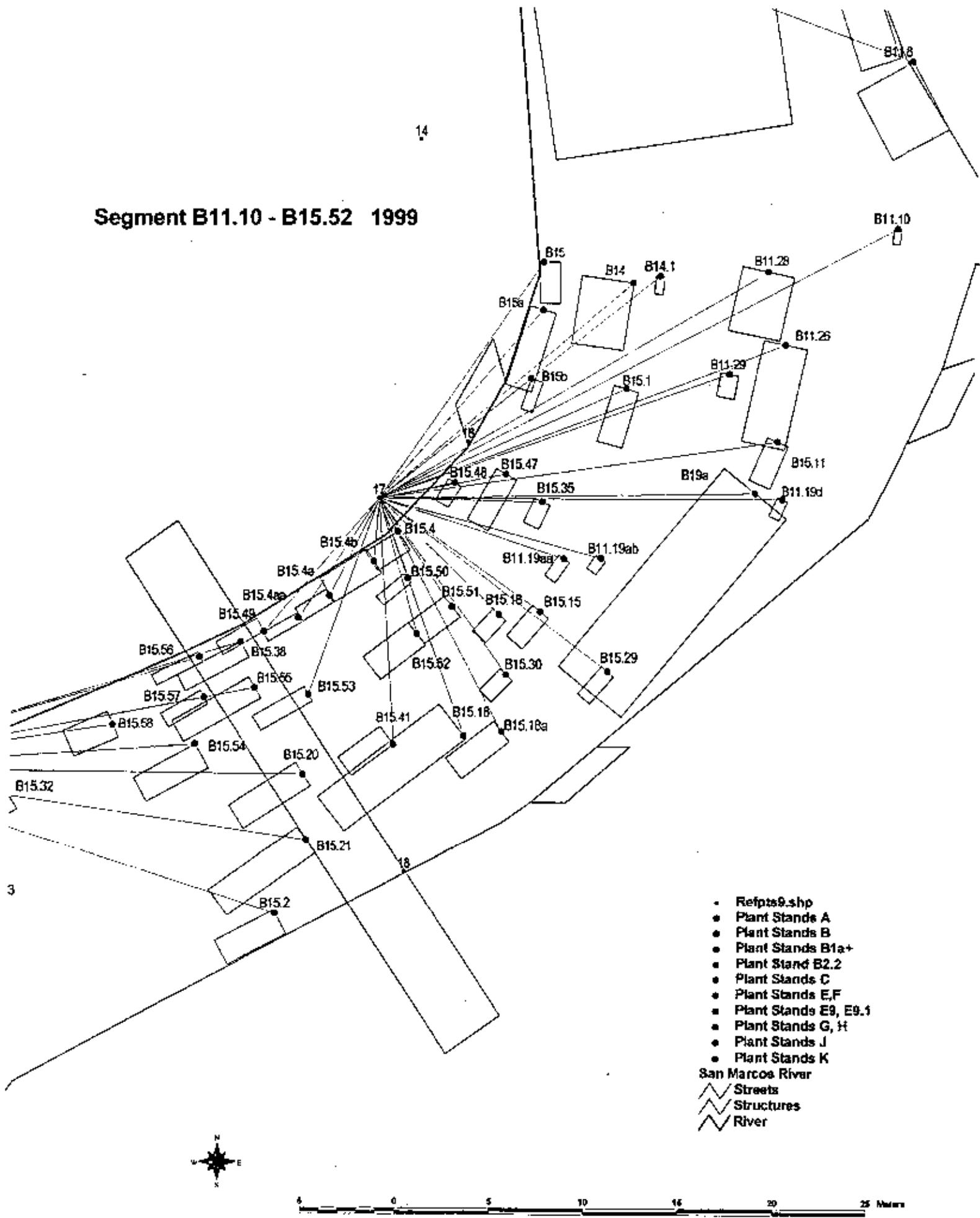


**Segment B13b1, B14, B14g,  
B14h, B15 - B15k 1998**

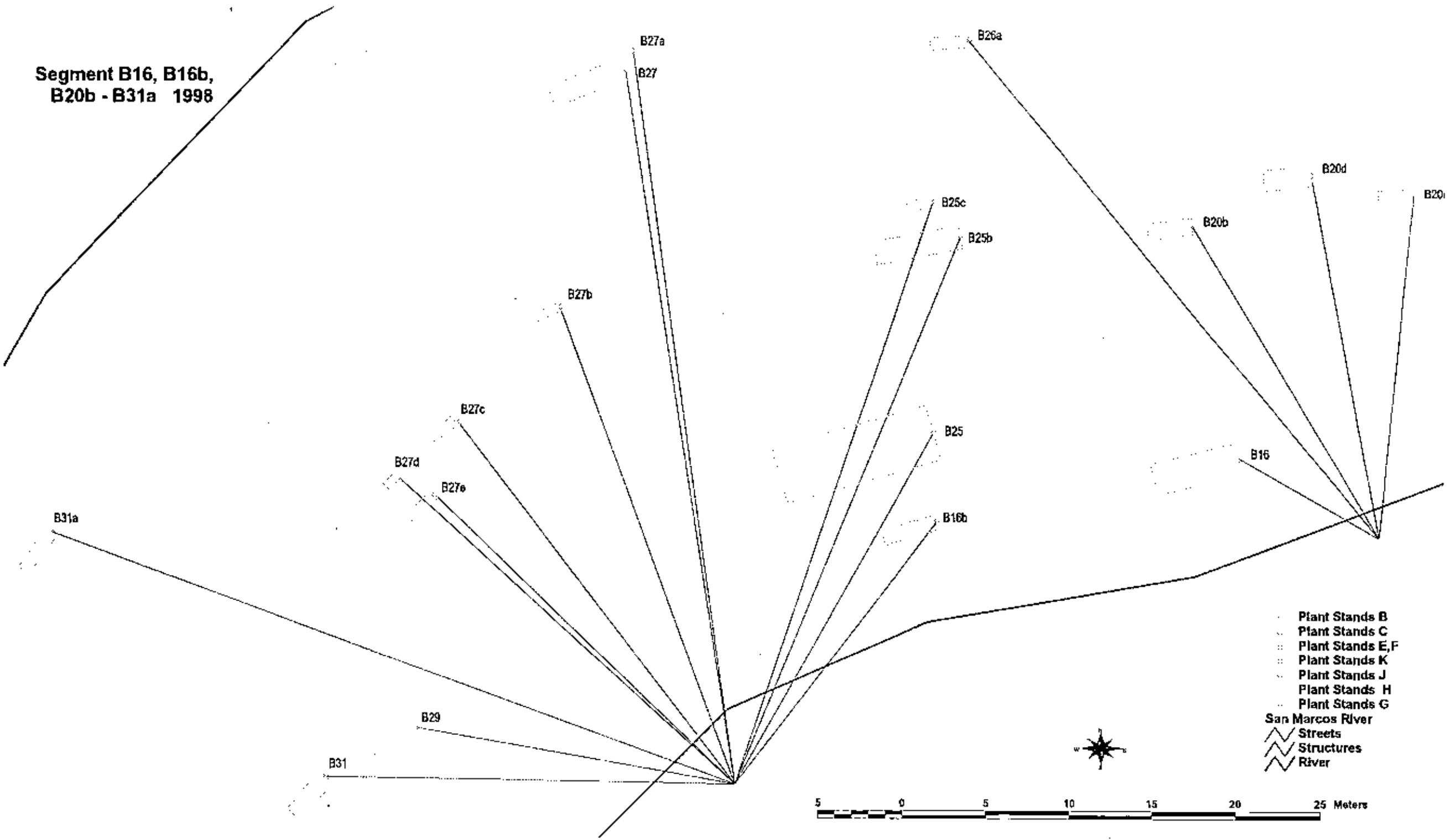


14

## Segment B11.10 - B15.52 1999

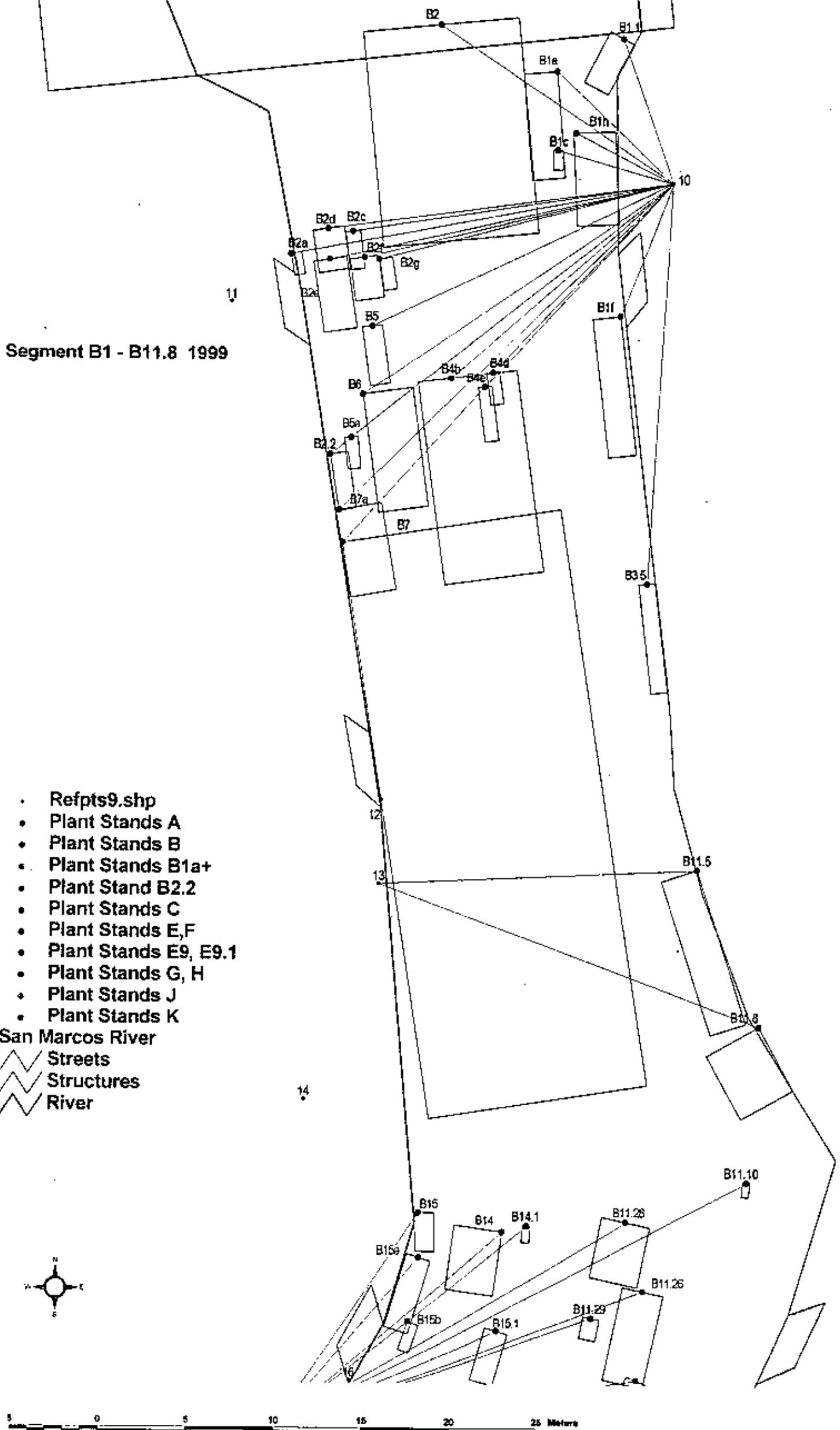


**Segment B16, B16b,  
B20b - B31a 1998**

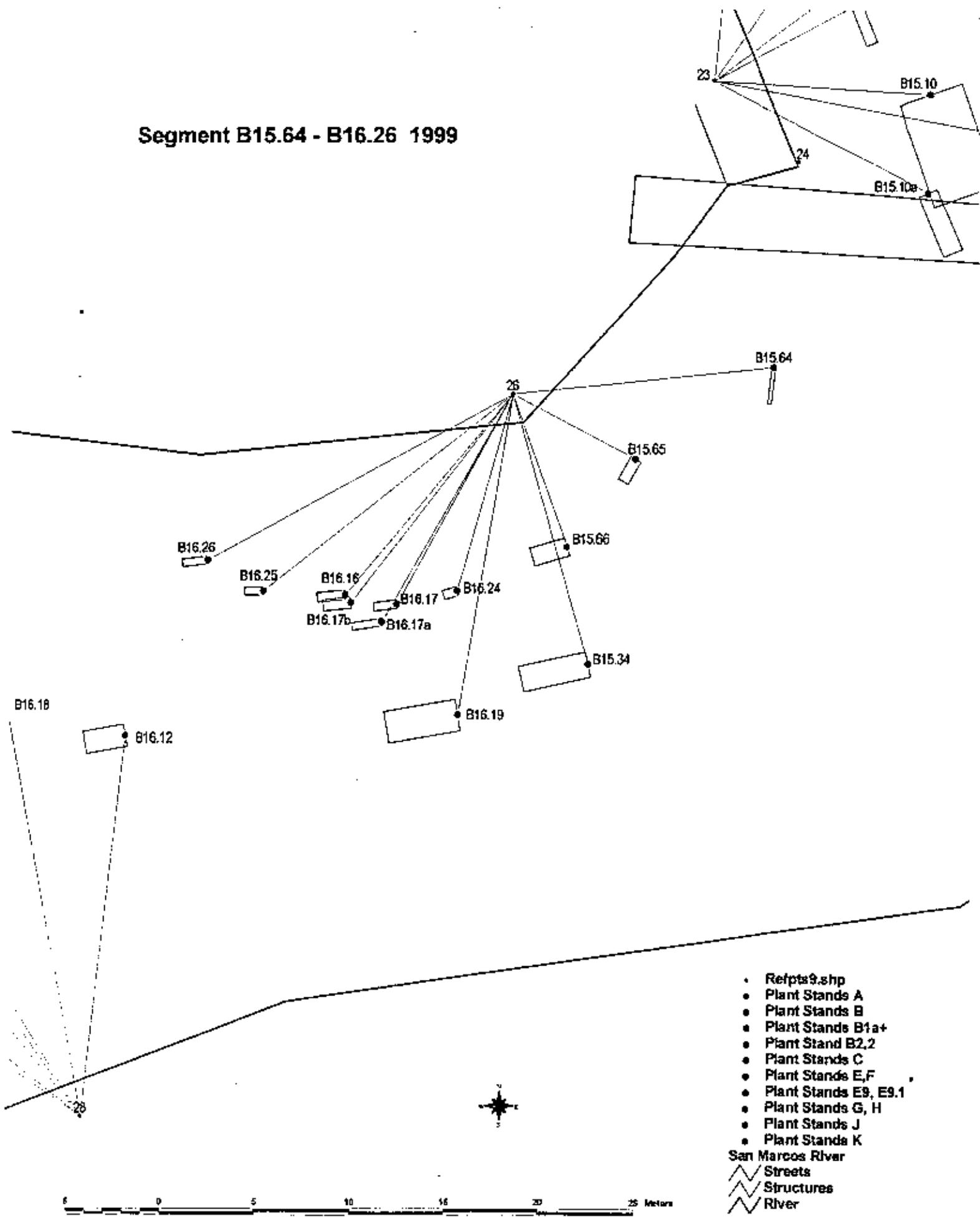


- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands K
- Plant Stands J
- Plant Stands H
- Plant Stands G
- San Marcos River**
- Streets
- Structures
- River

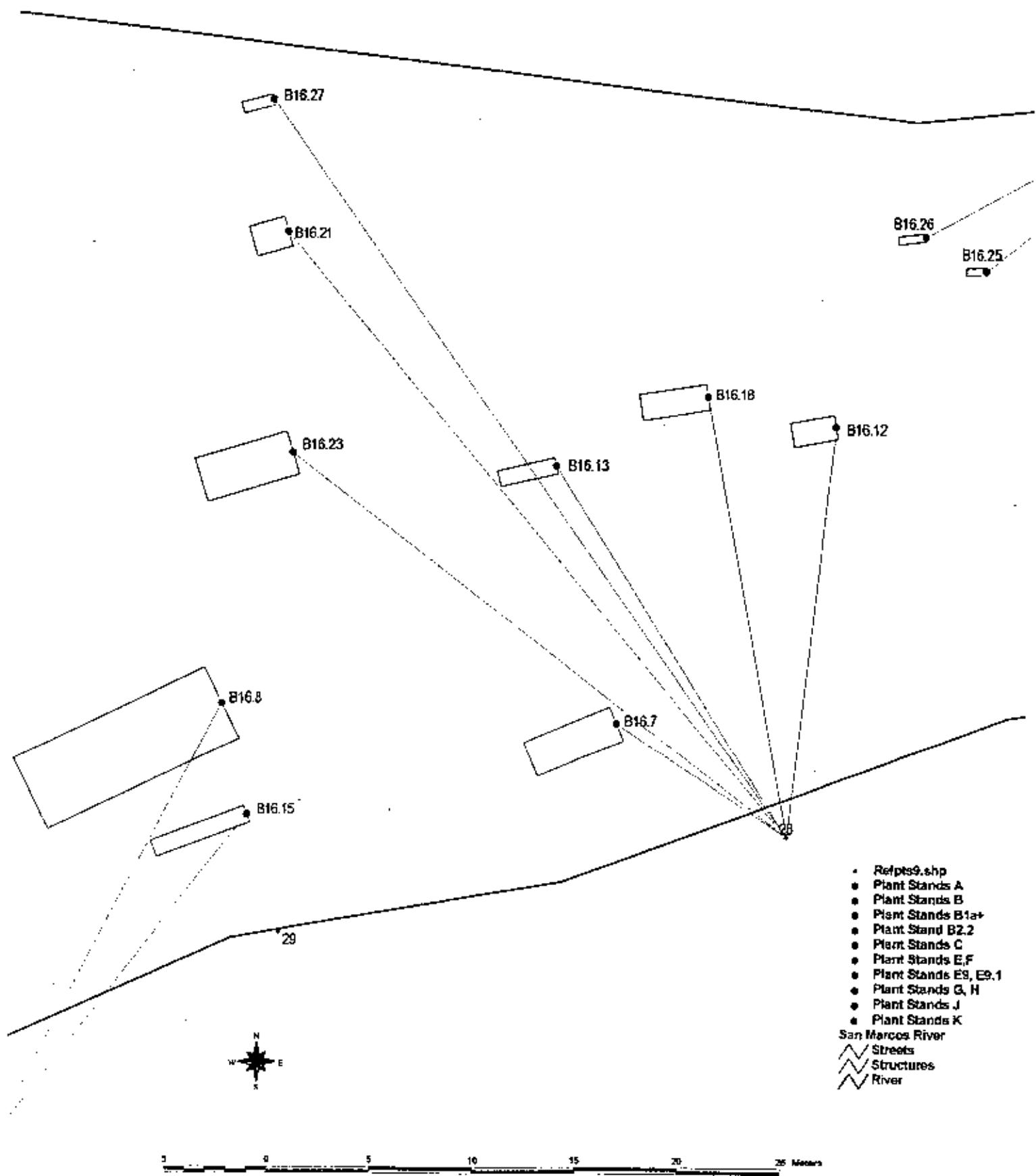
5 0 5 10 15 20 25 Meters



**Segment B15.64 - B16.26 1999**

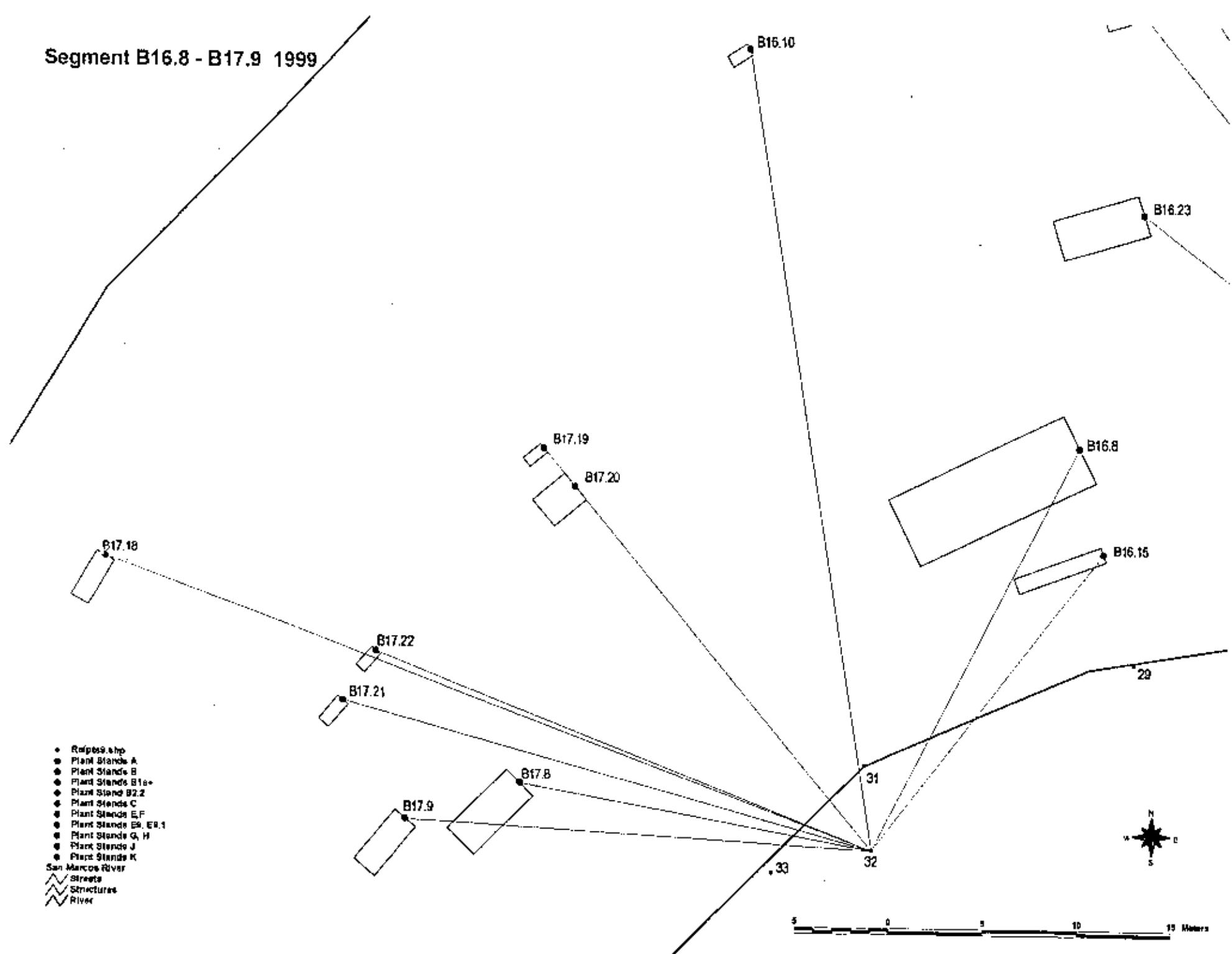


Segment B16.18 - B16.23 1999

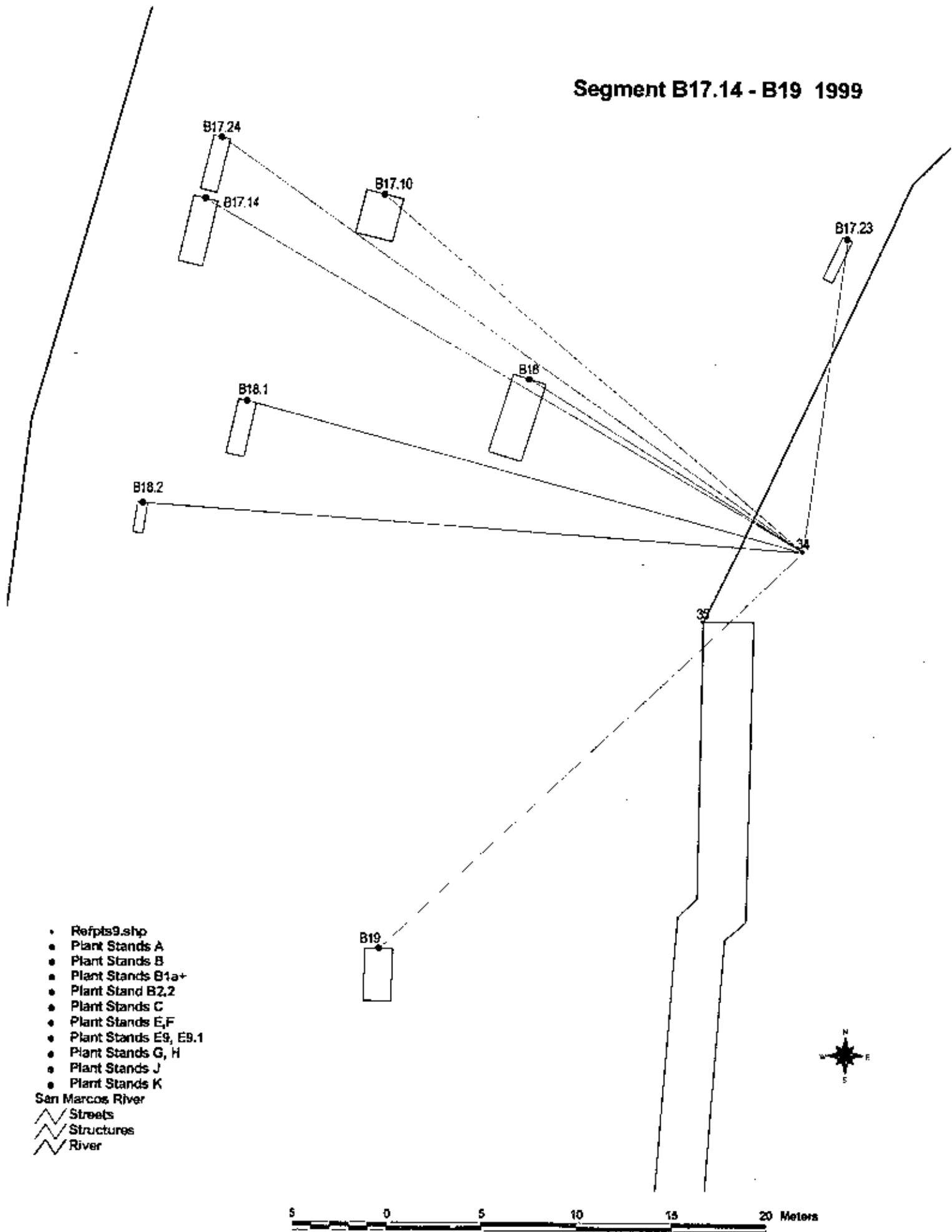


Segment B16.8 - B17.9 1999

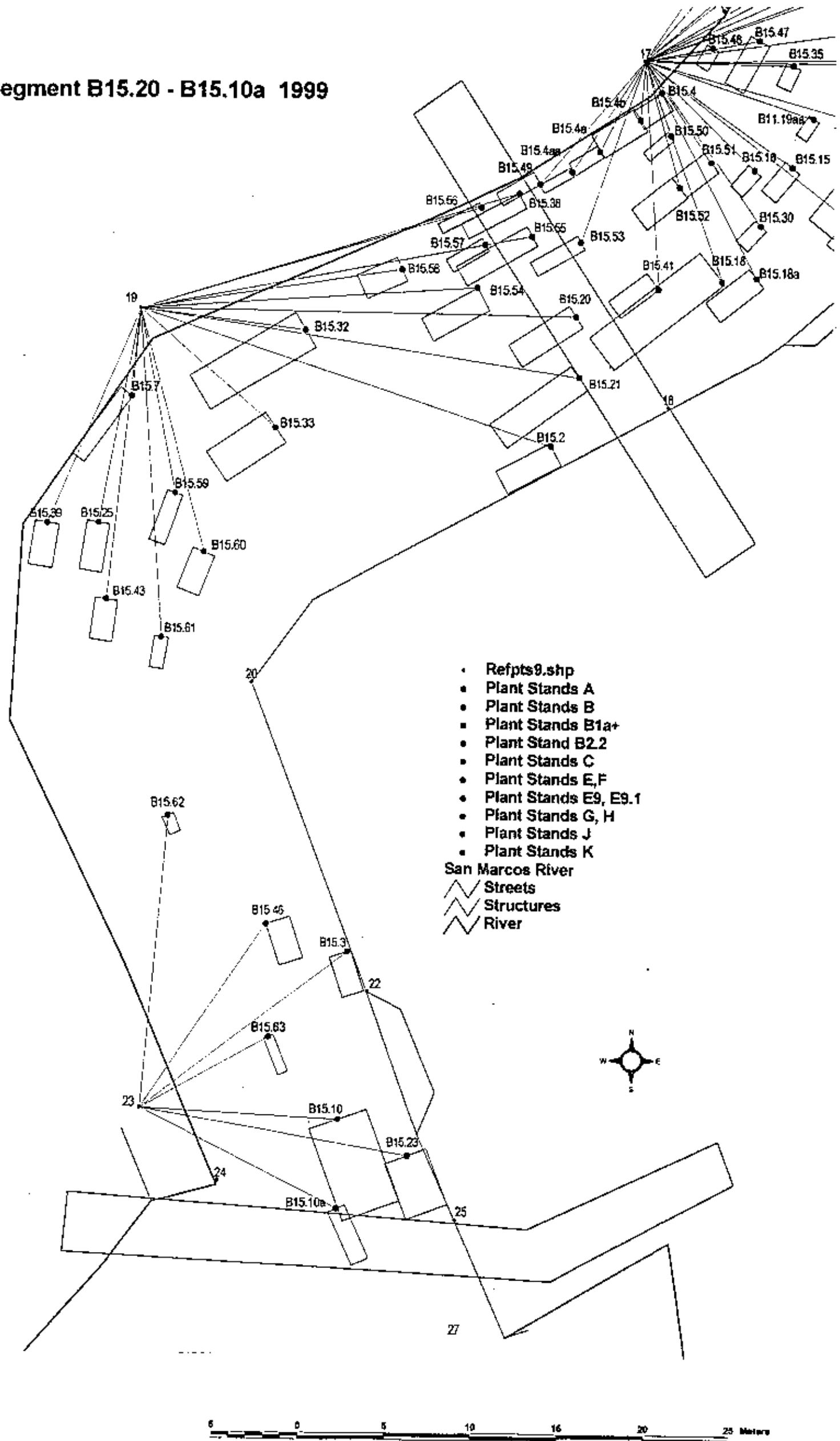
- Rippleship
- Plant Stands A
- Plant Stands B
- Plant Stands B1a+
- Plant Stand B2.2
- Plant Stands C
- Plant Stands E,F
- Plant Stands E4, E9.1
- Plant Stands G, H
- Plant Stands J
- Plant Stands K
- San Marcos River
- ~~~~ Streets
- ~~~~ Structures
- ~~~~ River



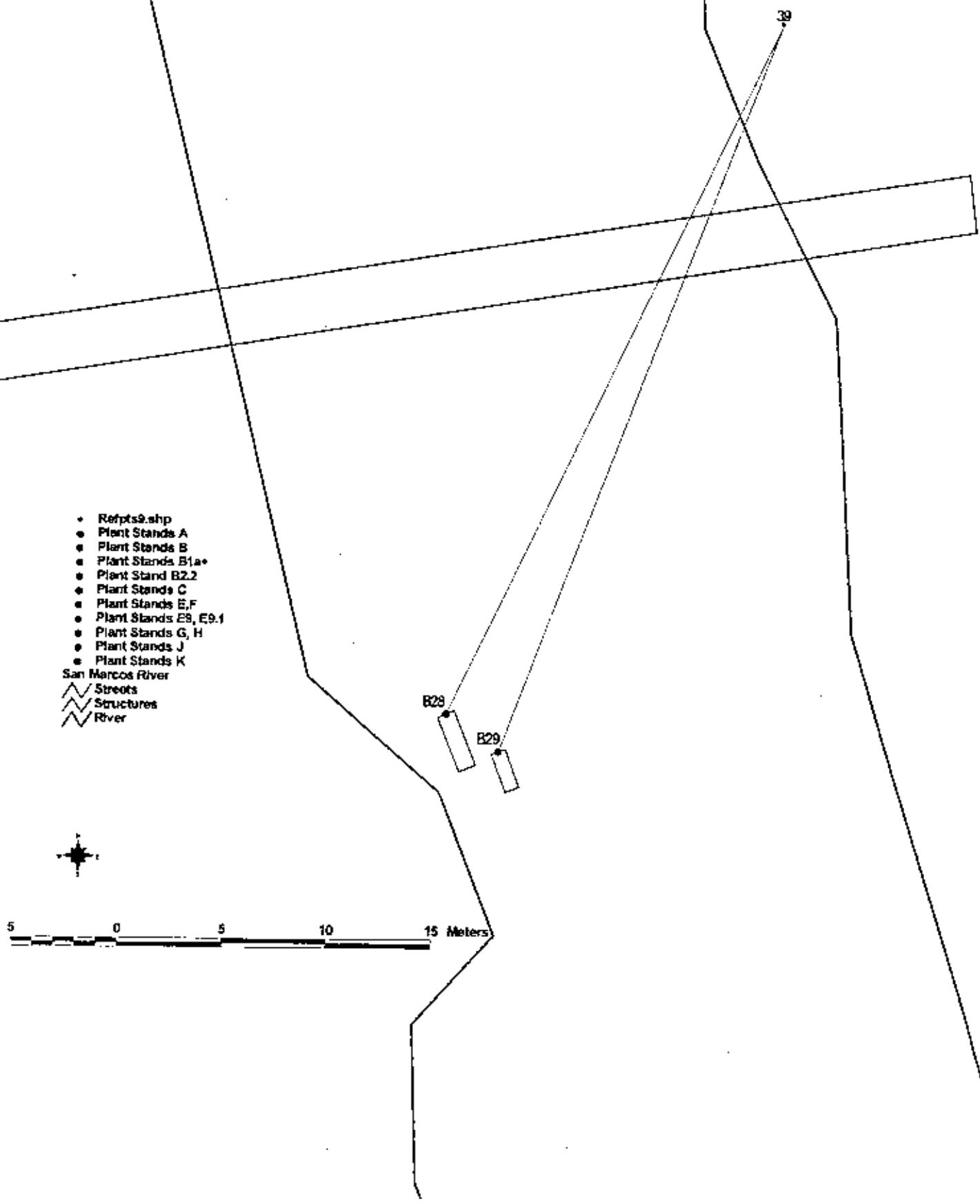
## Segment B17.14 - B19 1999



## Segment B15.20 - B15.10a 1999



## Segment B28, B29 1999



## Segment B30 1999

- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands B1a+
- Plant Stand B2.2
- Plant Stands C
- Plant Stands E,F
- Plant Stands E9, E9.1
- Plant Stands G, H
- Plant Stands J
- Plant Stands K

San Marcos River

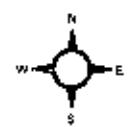
- Streets
- Structures
- River



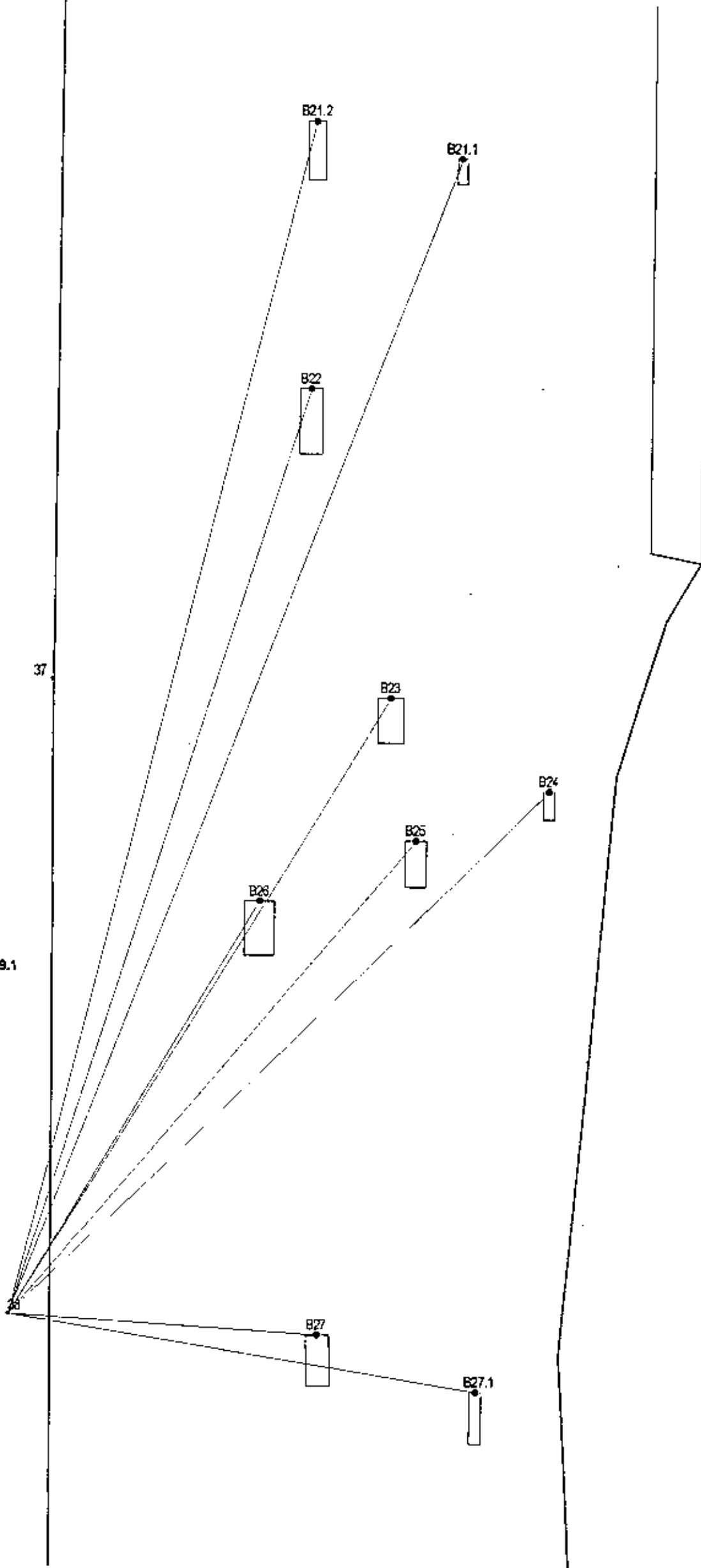
5 0 5 10 15 20 Meters

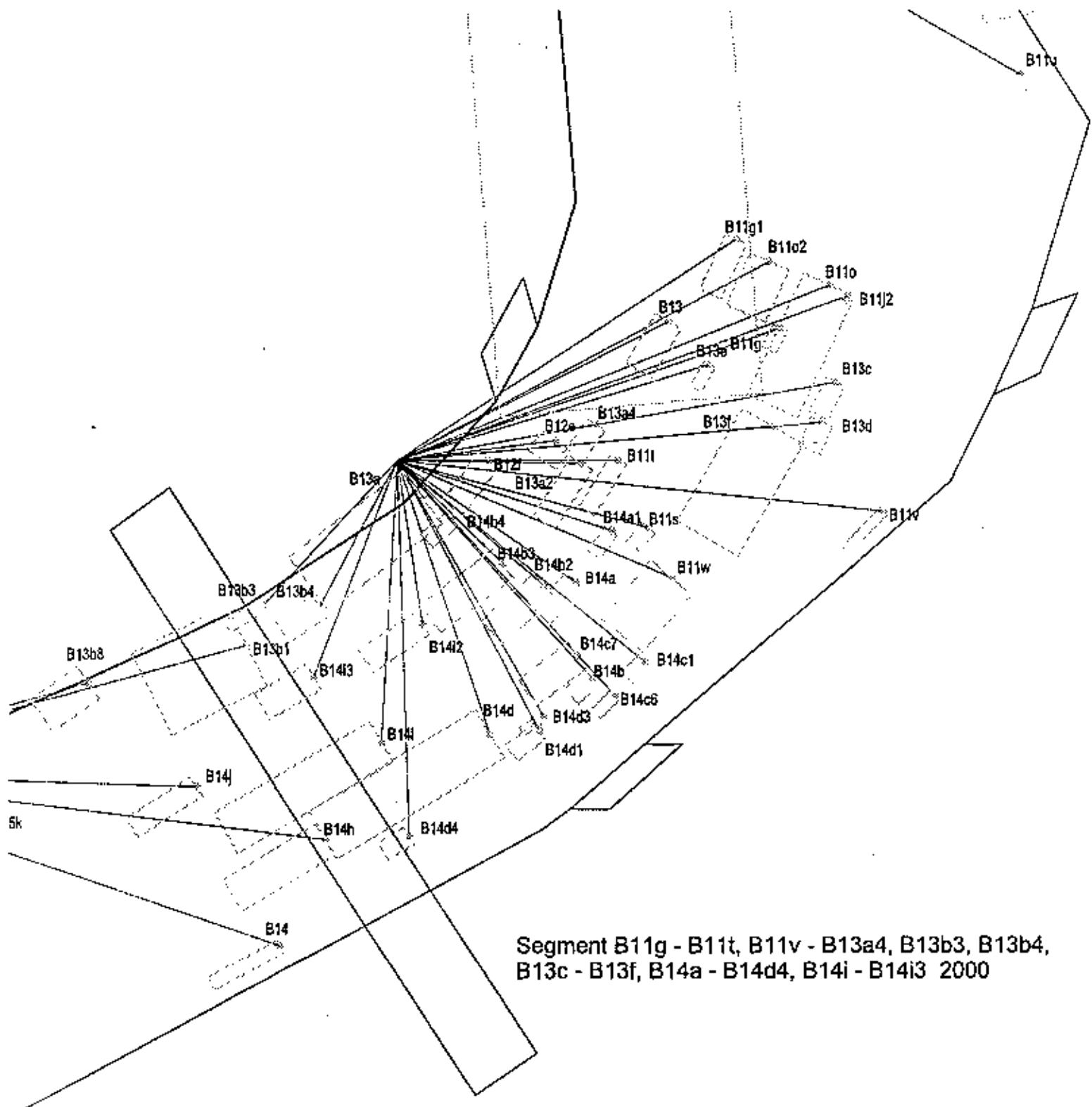
**Segment  
B21.1 - B27.1  
1999**

- Refpts9.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands B1a+
  - Plant Stand B2.2
  - Plant Stands C
  - Plant Stands E,F
  - Plant Stands E9, E9.1
  - Plant Stands G, H
  - Plant Stands J
  - Plant Stands K
- San Marcos River
- ~~~~ Streets
  - ~~~~ Structures
  - ~~~~ River



6 0 6 10 15 20 25 Meters





- Plant Stands B
- Plant Stands A
- △ Plant Stands C
- ◇ Plant Stands E,F
- ◆ Plant Stands K
- ▲ Plant Stands J
- Plant Stands G,H
- San Marcos River
- Streets
- Structures
- River

5 0 5 10 15 20 25 Meters

Segment B1 - B11f, B11u 2000

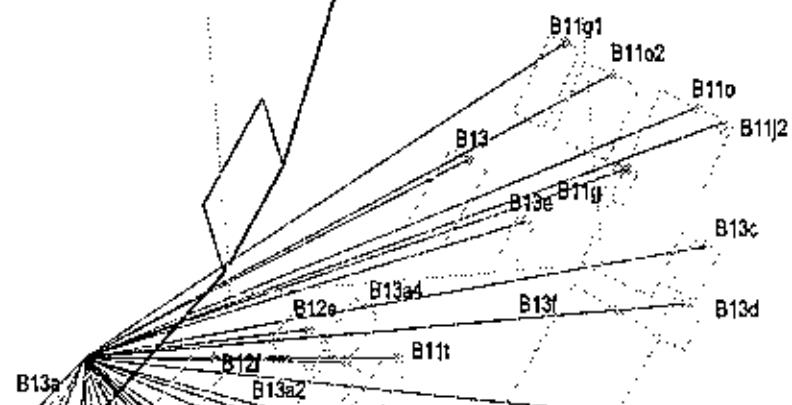
- Plant Stands B
- Plant Stands A
- Plant Stands C
- Plant Stands E,F
- Plant Stands K
- Plant Stands J
- Plant Stands G, H

San Marcos River

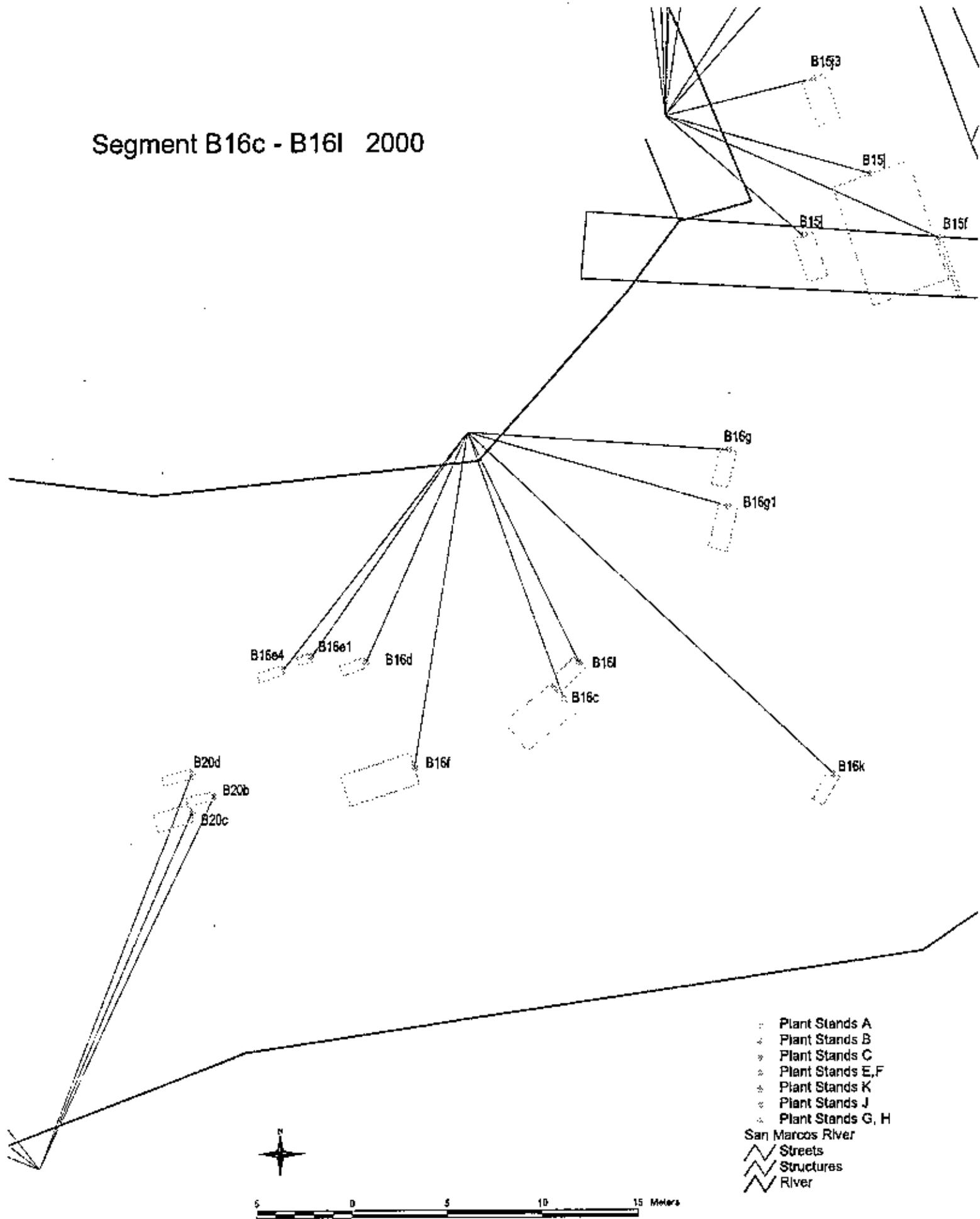
- △ Streets
- ▲ Structures
- ~~~~~ River

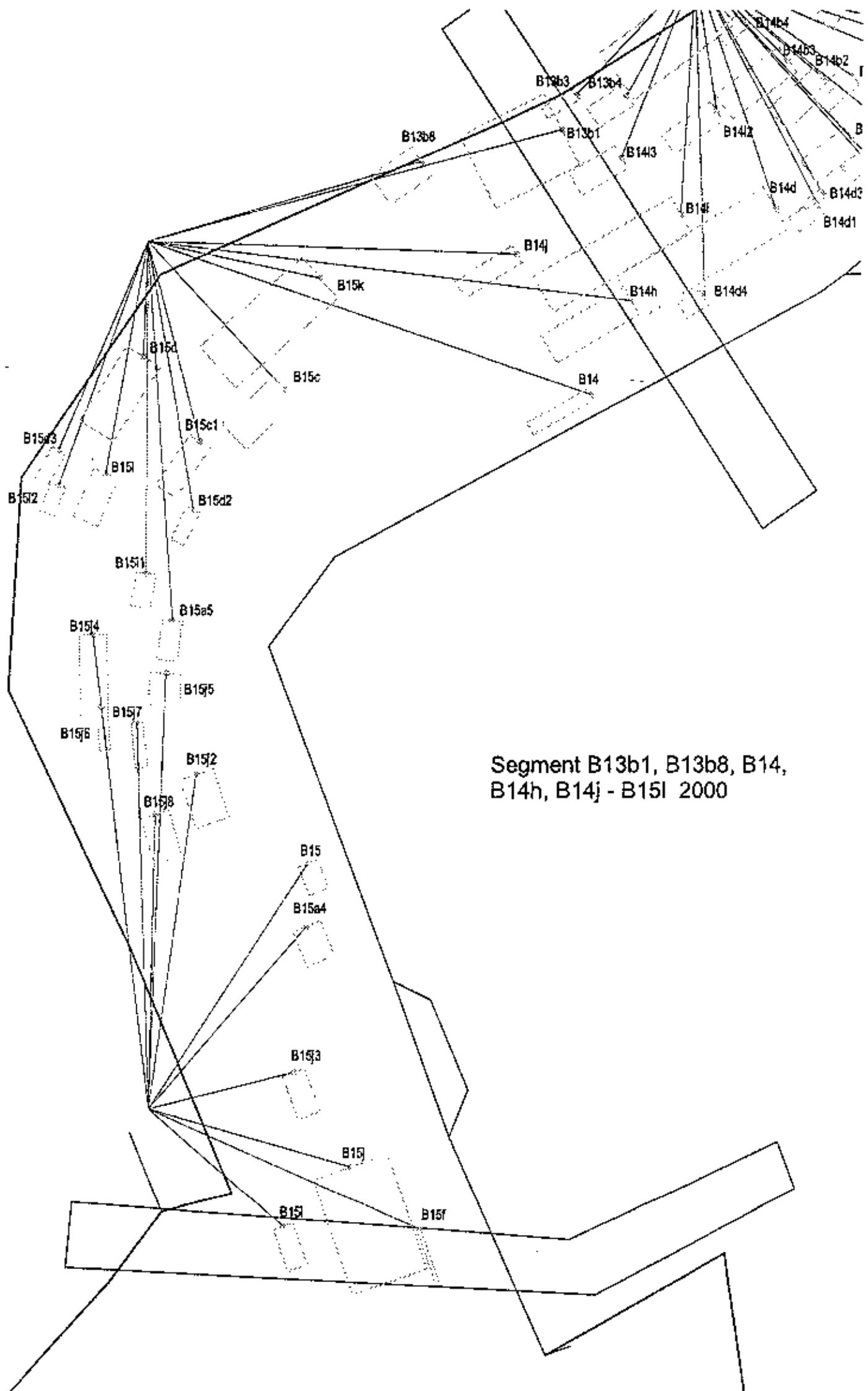


5 0 5 10 15 Meters



## Segment B16c - B16I 2000



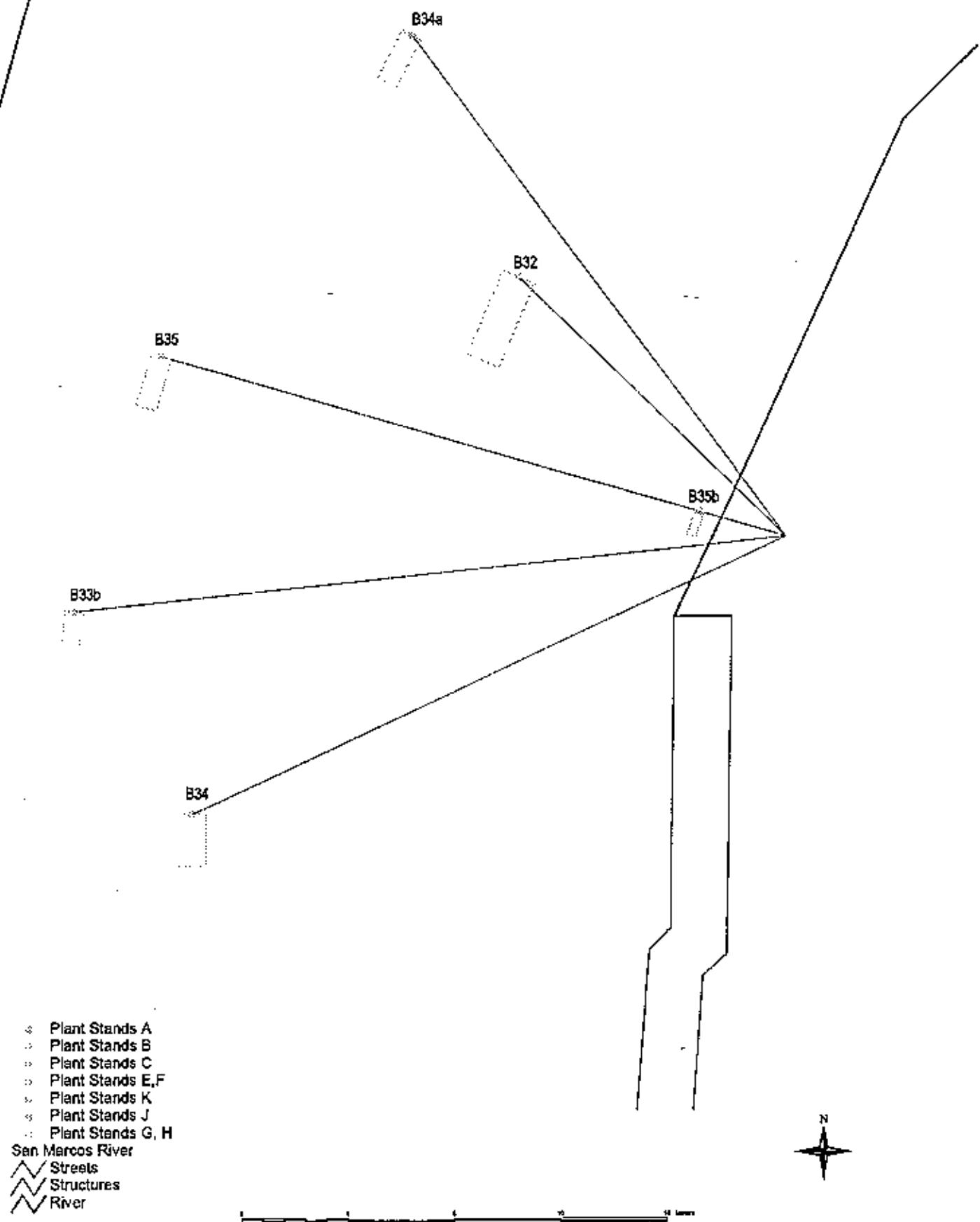


Segment B13b1, B13b8, B14,  
B14h, B14j - B15I 2000

- Plant Stands B
  - △ Plant Stands A
  - ▽ Plant Stands C
  - Plant Stands E,F
  - ◊ Plant Stands K
  - ◆ Plant Stands J
  - Plant Stands G, H
- San Marcos River  
Streets  
Structures  
River

5 0 5 10 15 Meters

# Segment B32 - B35b 2000



Segment B16, B16b, B20b - B20f, B25 - B31d 2000

B16a4

B20f

B20d  
B20c  
B20b

B31d

B16

B25

B16b

B29

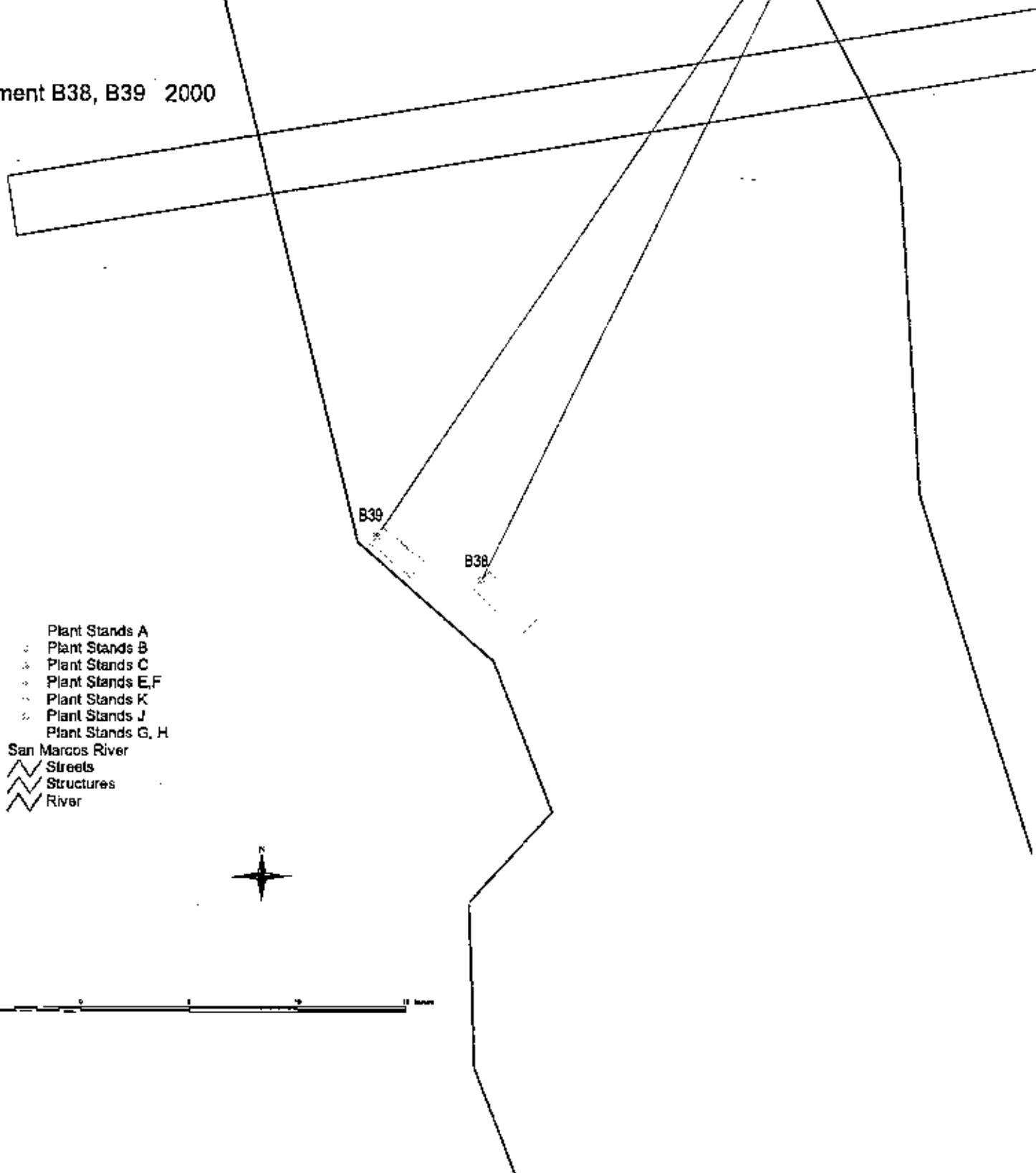
B31

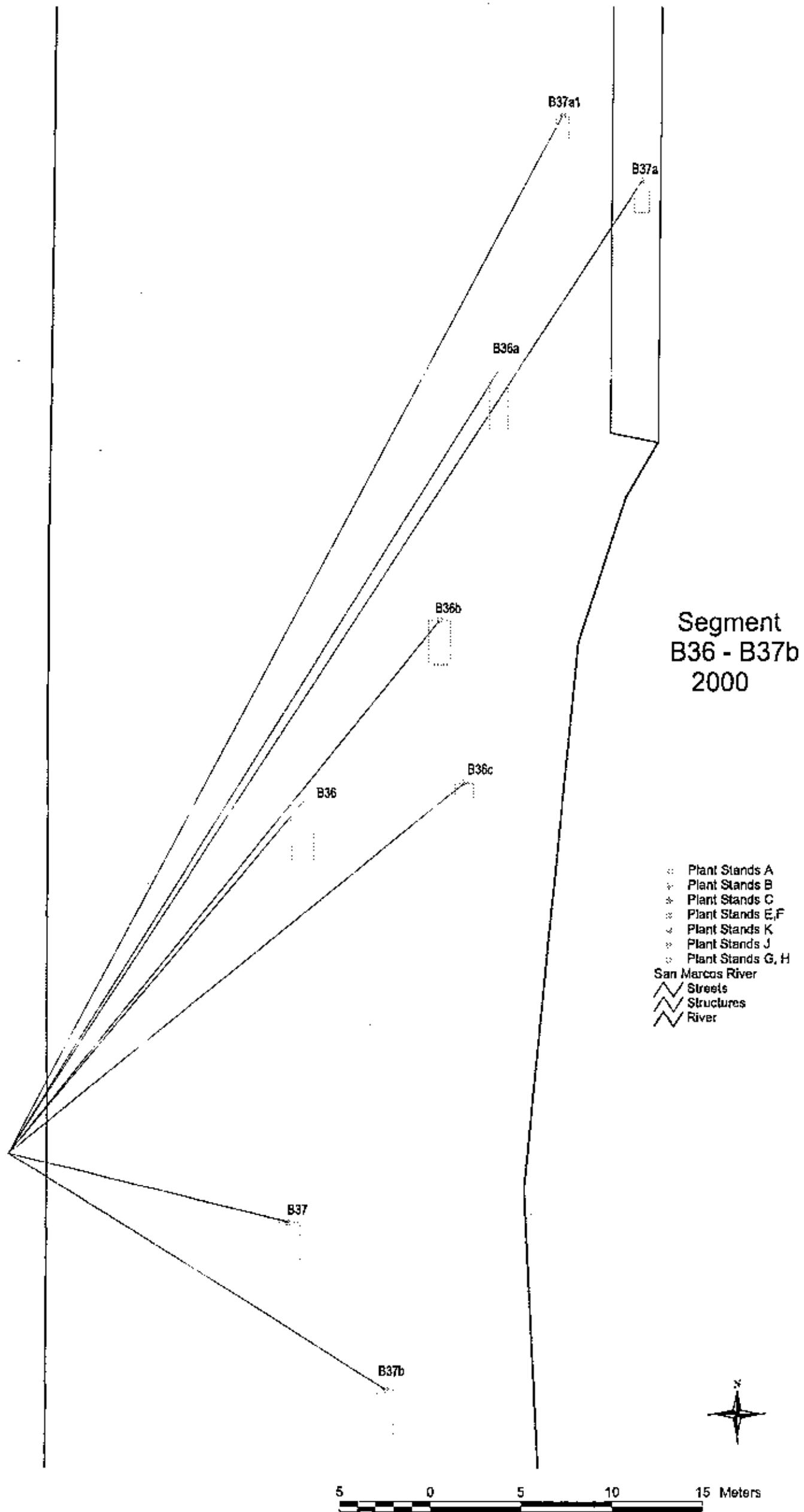
Plant Stands A  
Plant Stands B  
Plant Stands C  
Plant Stands E, F  
Plant Stands G, H  
Plant Stands J  
Plant Stands K  
San Marcos River  
Structures  
Streets

0 5 10 15 20 Meters

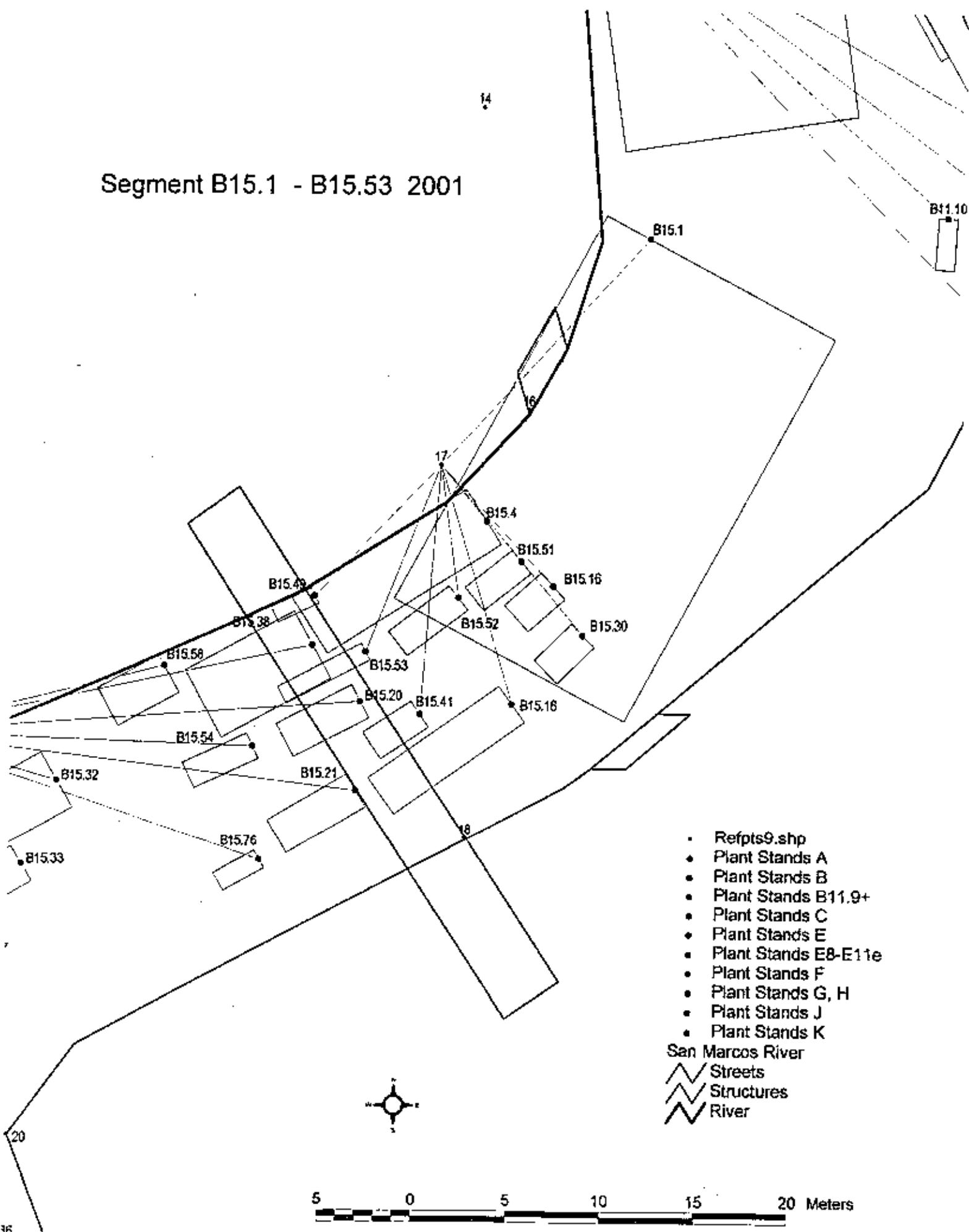


Segment B38, B39 2000



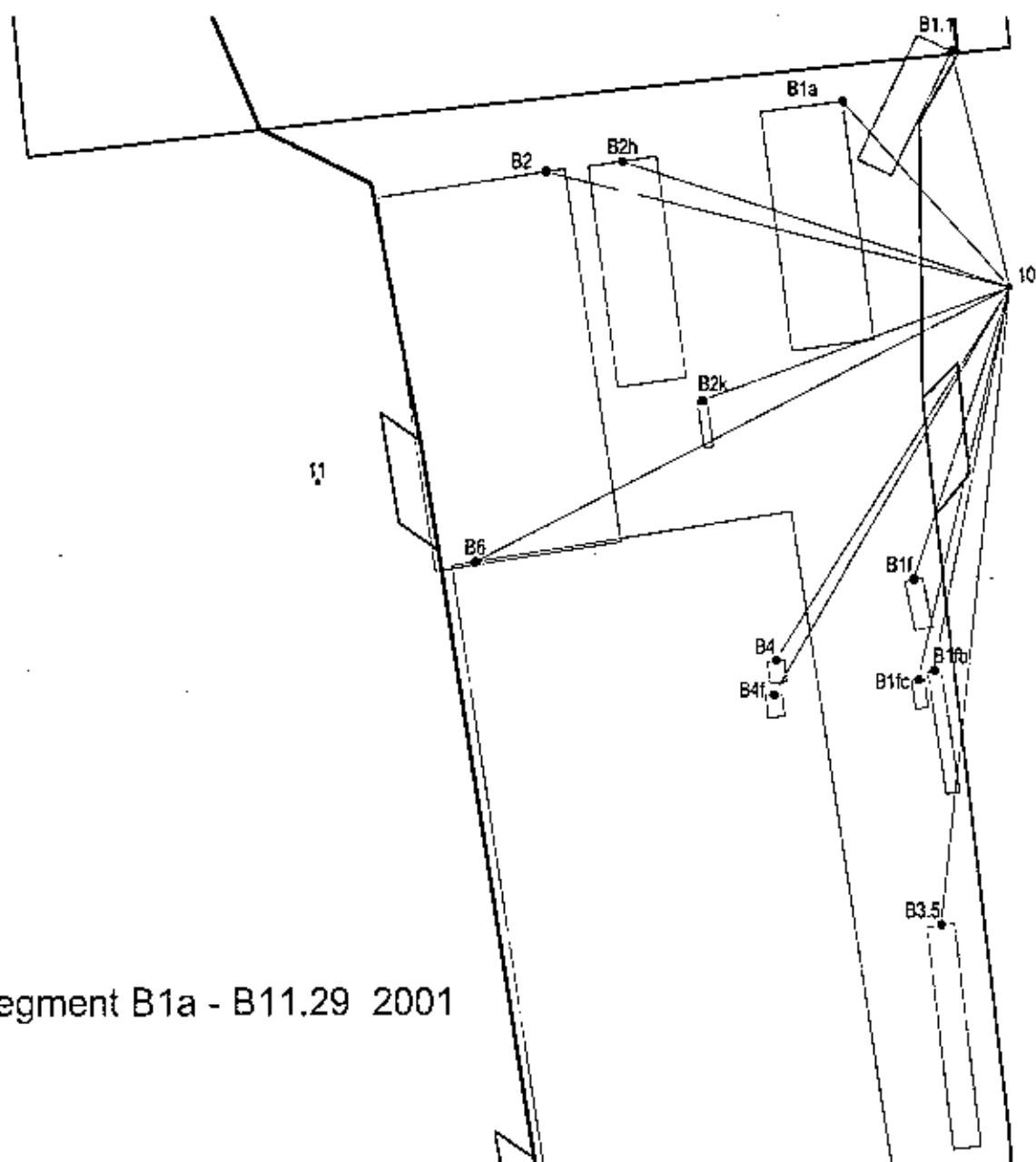


Segment B15.1 - B15.53 2001



- Refpts9.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands B11.9+
  - Plant Stands C
  - Plant Stands E
  - Plant Stands E8-E11e
  - Plant Stands F
  - Plant Stands G, H
  - Plant Stands J
  - Plant Stands K
- San Marcos River
- △ Streets
  - △ Structures
  - △ River

5 0 5 10 15 20 Meters



Segment B1a - B11.29 2001

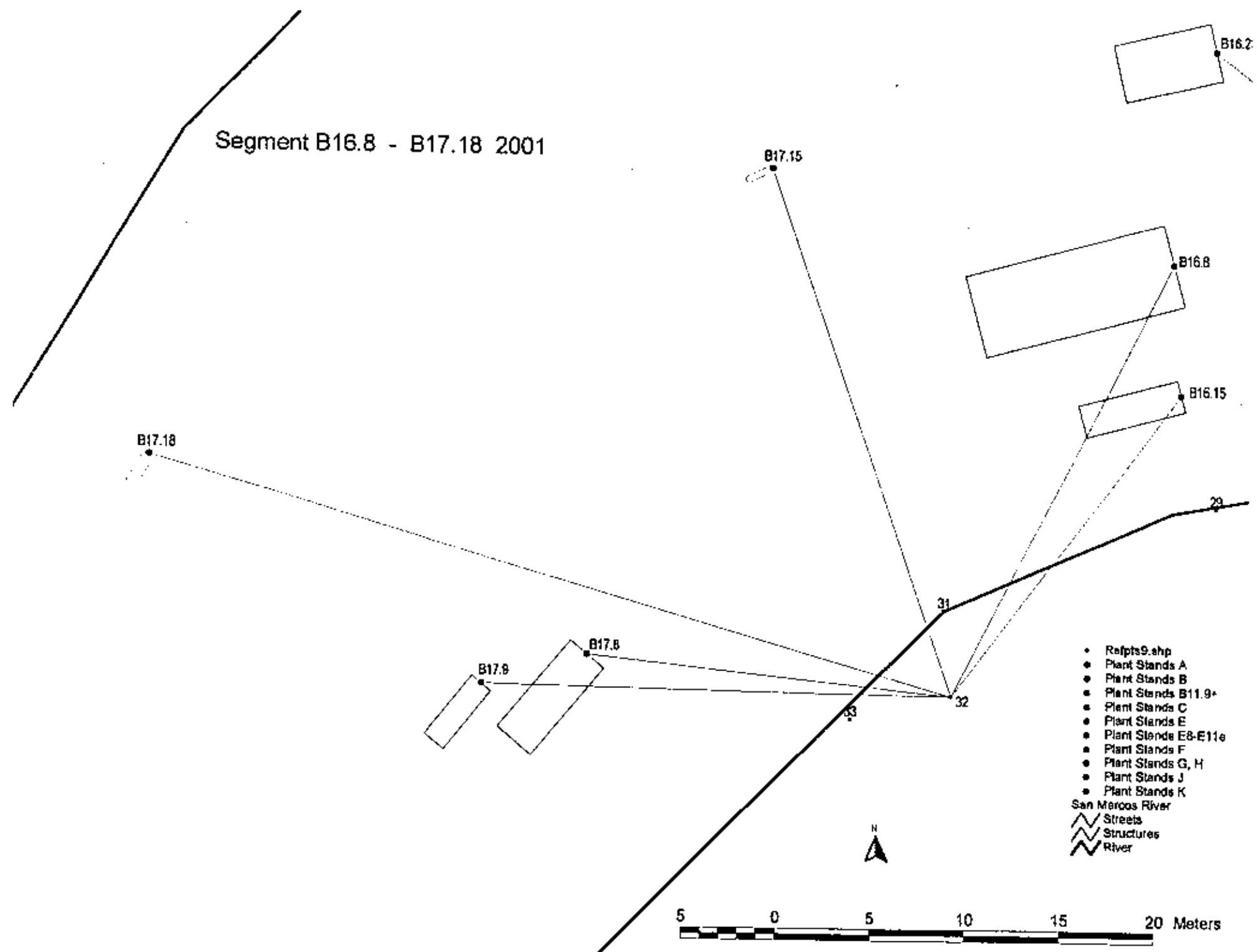
- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands B11.9+
- Plant Stands C
- Plant Stands E
- Plant Stands E8-E11e
- Plant Stands F
- Plant Stands G, H
- Plant Stands J
- Plant Stands K

San Marcos River

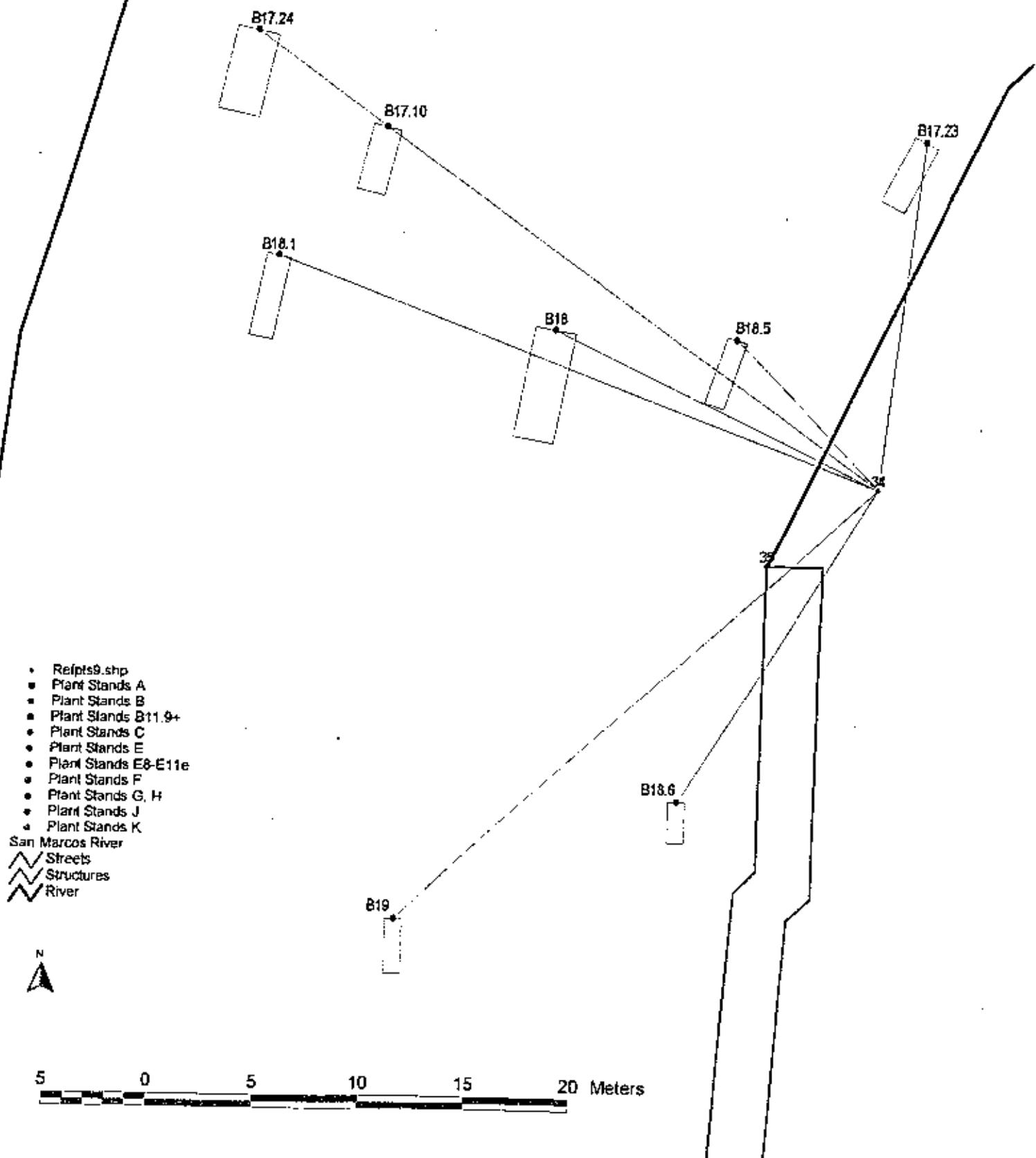
- △ Streets
- △ Structures
- △ River



5 0 5 10 15 20 Meters



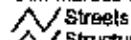
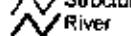
## Segment B17.10 - B19 2001



Segment B22 - B27.2 2001

- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands B11.9+
- Plant Stands C
- Plant Stands E
- Plant Stands E8-E11e
- Plant Stands F
- Plant Stands G, H
- Plant Stands J
- Plant Stands K

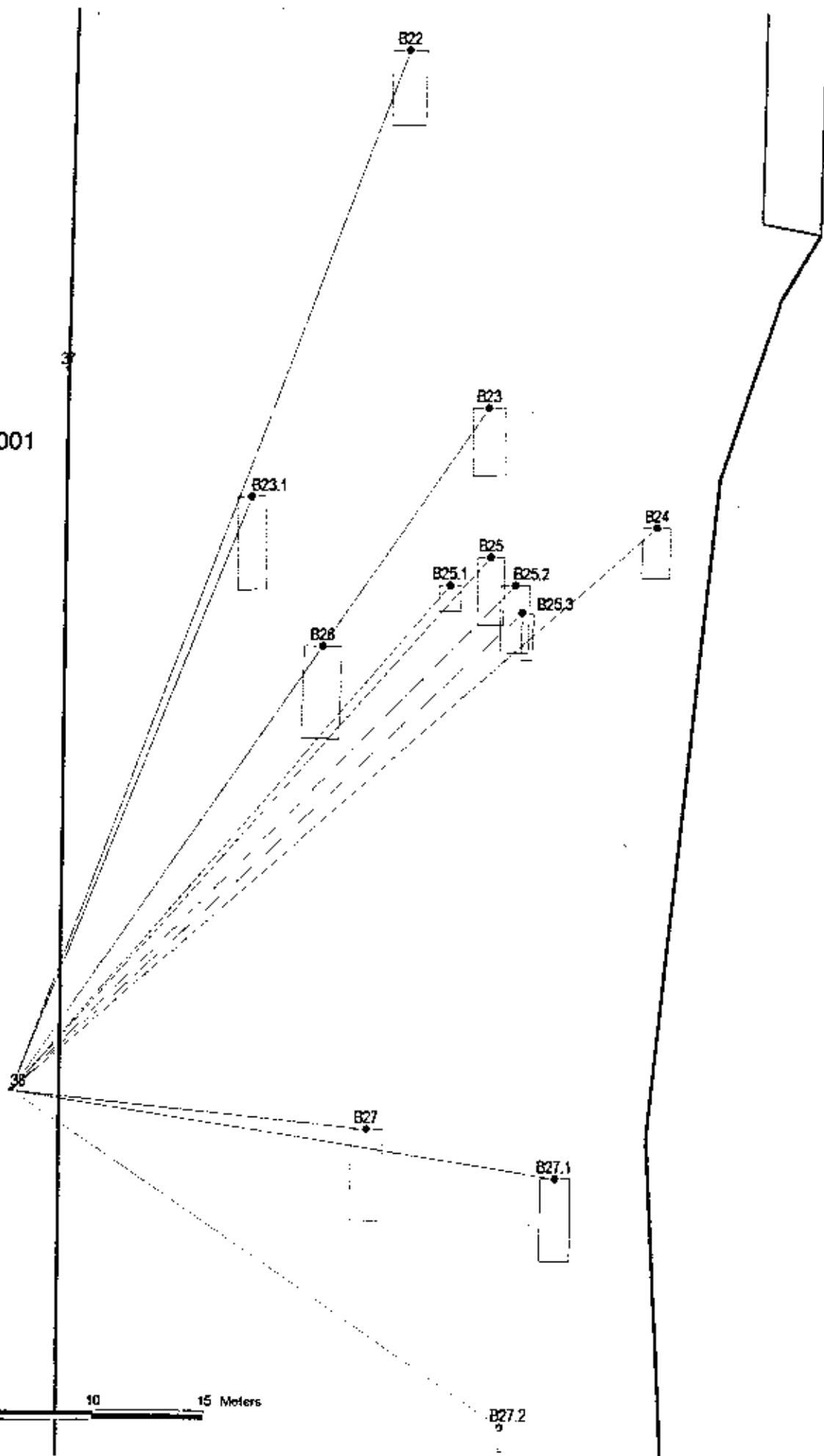
San Marcos River

-  Streets
-  Structures
-  River



0 5 10 15 Meters

B27.2



# Segment B28-B29.1 2001

- Relpts8.shp
  - Plant Stands A
  - ◆ Plant Stands B
  - ◆ Plant Stands B11.9+
  - Plant Stands C
  - Plant Stands D
  - Plant Stands E
  - Plant Stands E8-E11e
  - Plant Stands F
  - Plant Stands G, H
  - Plant Stands J
  - Plant Stands K
- San Marcos River
- ~~~~ Streets
  - ~~~~ Structures
  - ~~~~ River

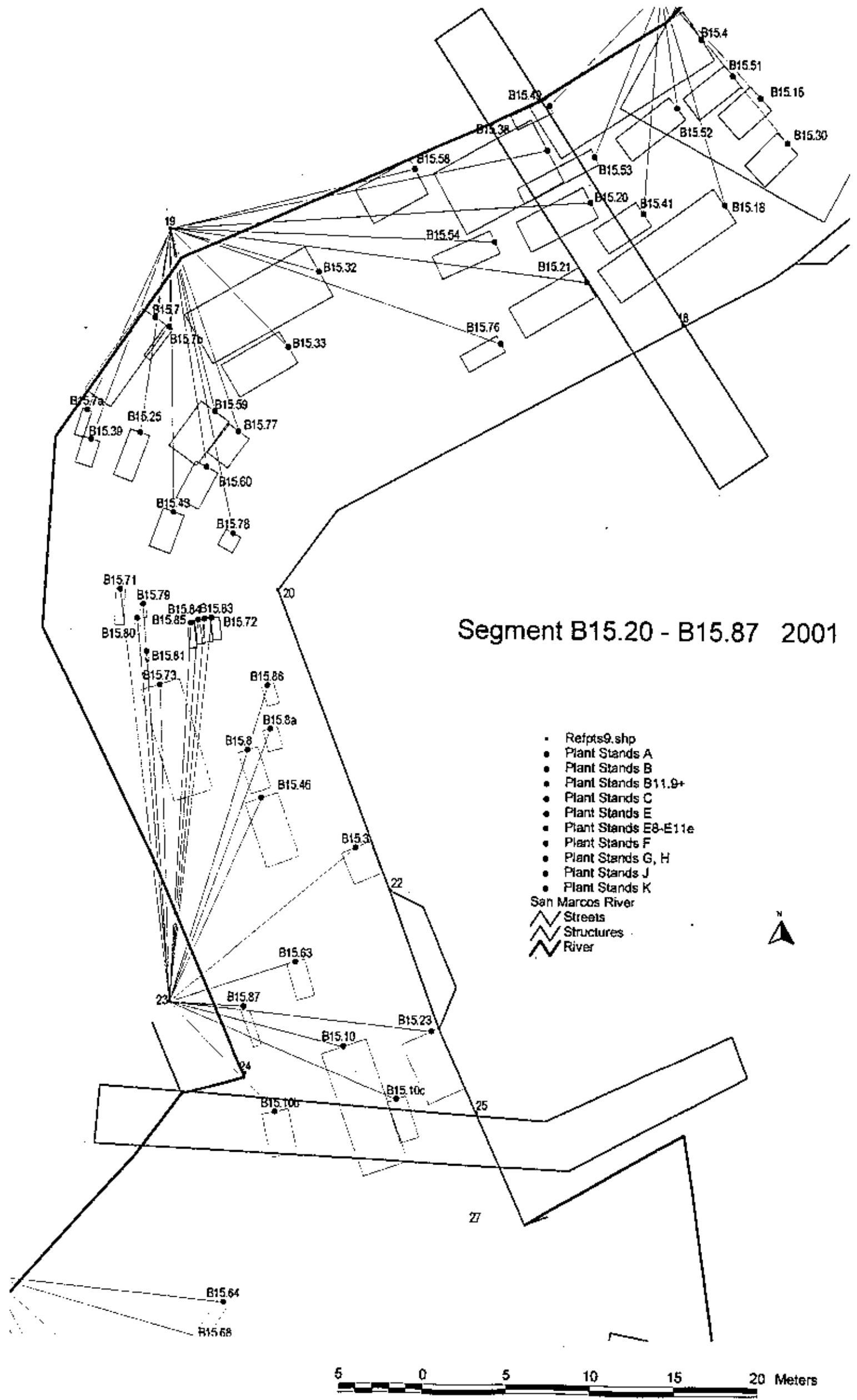


B28

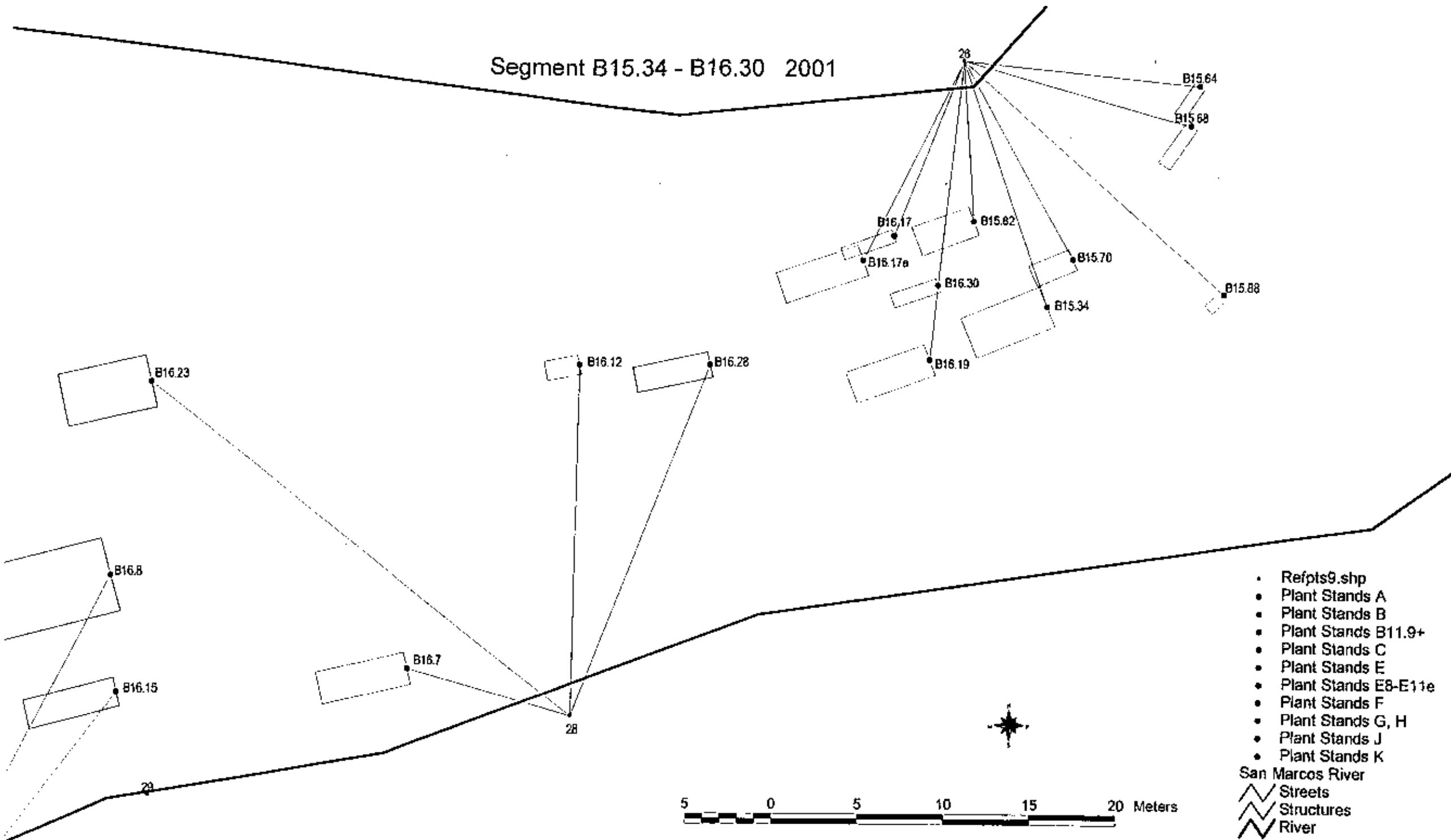
B29

B29.1

5 0 5 10 15 20 Meters

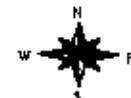
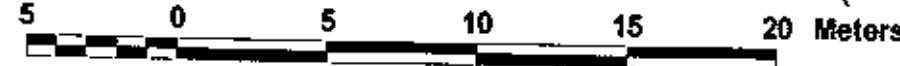


Segment B15.34 - B16.30 2001

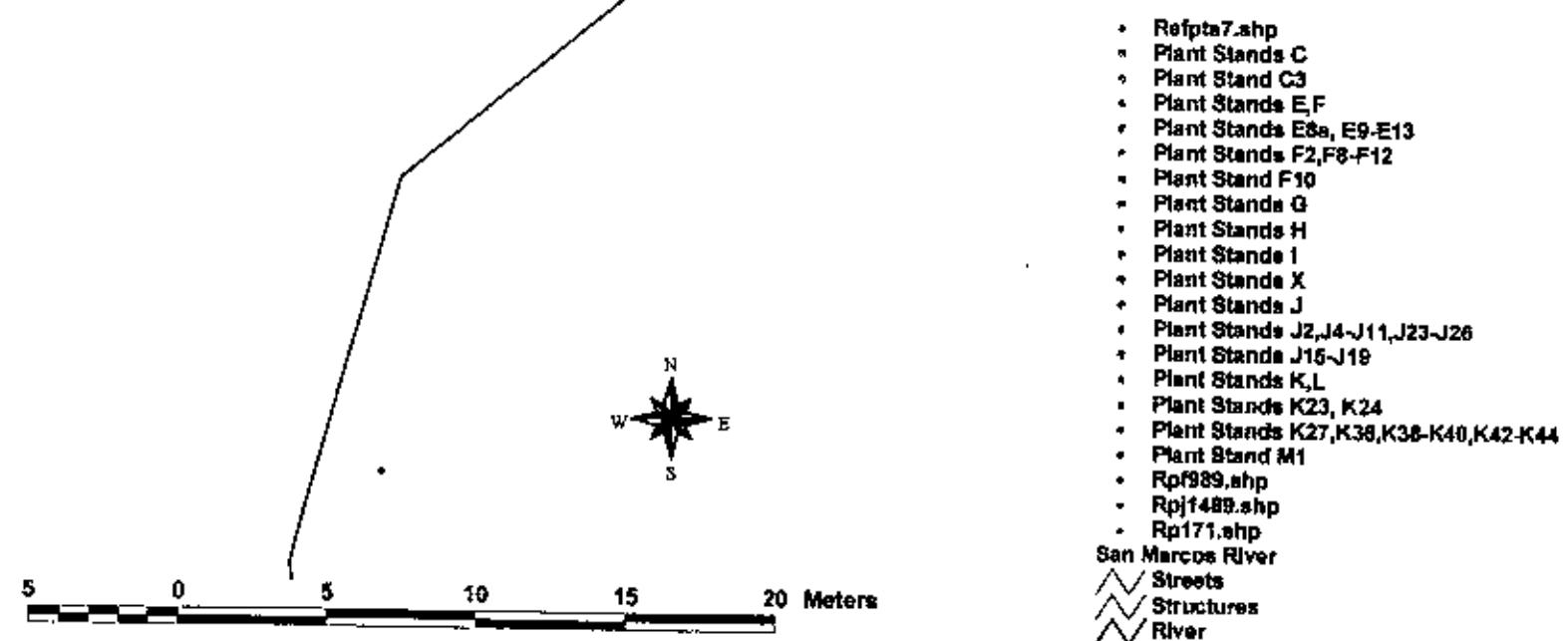


## Segments C6 - C8 1989

- Repts7.shp
  - Plant Stands C
  - Plant Stand C3
  - Plant Stands E,F
  - Plant Stands E8a, E9-E13
  - Plant Stands F2,FB-F12
  - Plant Stand F10
  - Plant Stands G
  - Plant Stands H
  - Plant Stands I
  - Plant Stands X
  - Plant Stands J
  - Plant Stands J2,J4-J11,J23-J26
  - Plant Stands J15-J19
  - Plant Stands K,L
  - Plant Stands K23, K24
  - Plant Stands K27,K38,K38-K40,K42-K44
  - Plant Stand M1
  - Rpt989.shp
  - Rpt1489.shp
  - Rpt171.shp
- San Marcos River
- Streets
  - Structures
  - River



## Segment C9 1989



## Segment C0 - C2 1990

- Refpts6.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands C5-C6,1,C9,C9a
- Plant Stands E,F
- Plant Stands F4-F6, F8-F15
- Plant Stands G
- Plant Stands H
- Plant Stand H2
- Plant Stands I
- Plant Stands J
- Plant Stands J4,J5,J8-J11
- Plant Stands J27,K1-K5,K29-K31
- Plant Stands K,L
- Plant Stands K11-K22,K31
- Plant Stands K23, K24
- Plant Stand K45

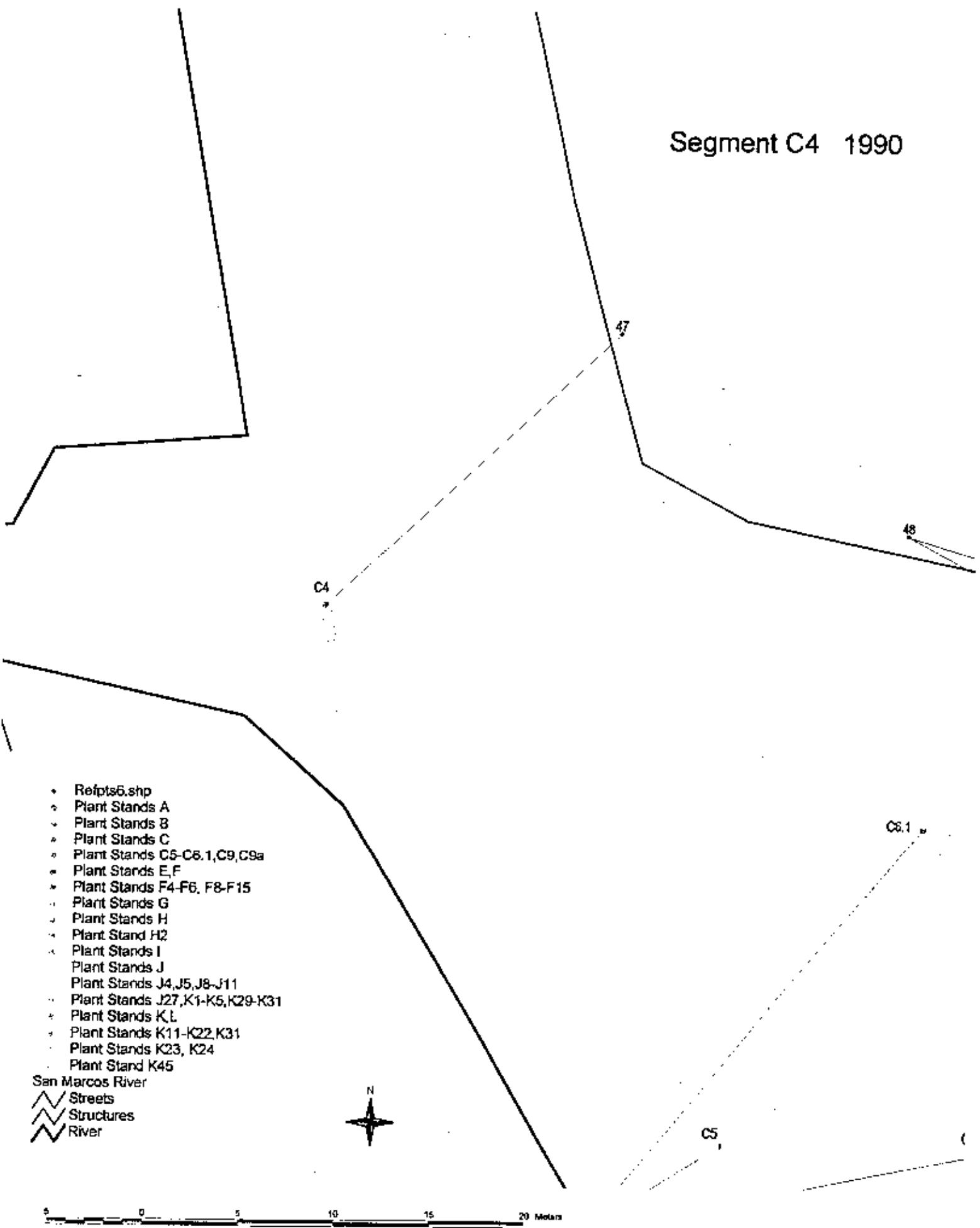
San Marcos River

- ~~ Streets
- ~~ Structures
- ~~ River



5 0 5 10 15 20 Meters

## Segment C4 1990



Segment B30, B31 2001

- Refpts9.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands B11.9+
  - Plant Stands C
  - Plant Stands E
  - Plant Stands E8-E11e
  - Plant Stands F
  - Plant Stands G, H
  - Plant Stands J
  - Plant Stands K
- San Marcos River
- △ Streets
  - △ Structures
  - △ River

5 0 5 10 15 20 Meters

## Segments C1 - C3 1989

45

C2

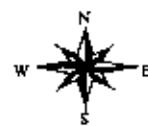
C1

C3

- Rptls7.shp
- Plant Stands C
- Plant Stand C3
- Plant Stands E,F
- Plant Stands E8a, E9-E13
- Plant Stands F2,F8-F12
- Plant Stand F10
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands X
- Plant Stands J
- Plant Stands J2,J4-J11,J23-J26
- Plant Stands J15-J19
- Plant Stands K,L
- Plant Stands K23, K24
- Plant Stands K27,K36,K38-K40,K42-K44
- Plant Stand M1
- Rp1989.shp
- Rp1489.shp
- Rp171.shp

San Marcos River

- ✓ Streets
- ✓ Structures
- ✓ River



5 0 5 10 15 20

25 Meters

# Segments C4, C5 1989

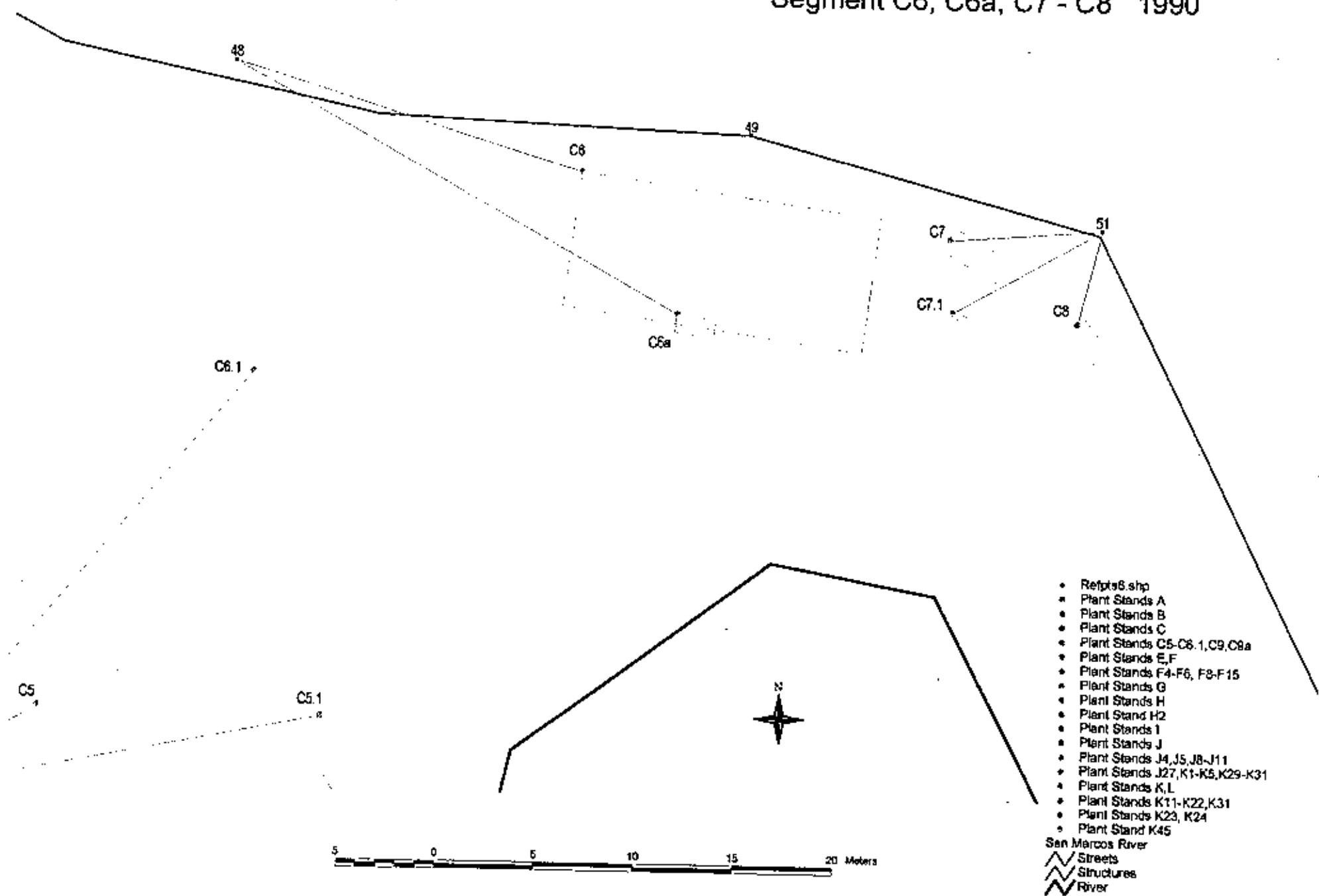
- Refpts7.shp
- Plant Stands C
- Plant Stand C3
- Plant Stands E,F
- Plant Stands E8a, E9-E13
- Plant Stands F2,F8-F12
- Plant Stand F10
- Plant Stands G
- Plant Stands H
- Ptant Stands I
- Plant Stands X
- Plant Stands J
- Plant Stands J2,J4-J11,J23-J26
- Plant Stands J15-J19
- Plant Stands K,L
- Plant Stands K23, K24
- Plant Stands K27,K36,K38-K40,K42-K44
- Plant Stand M1
- Rpf889.shp
- Rpj1489.shp
- Rp171.shp

San Marcos River

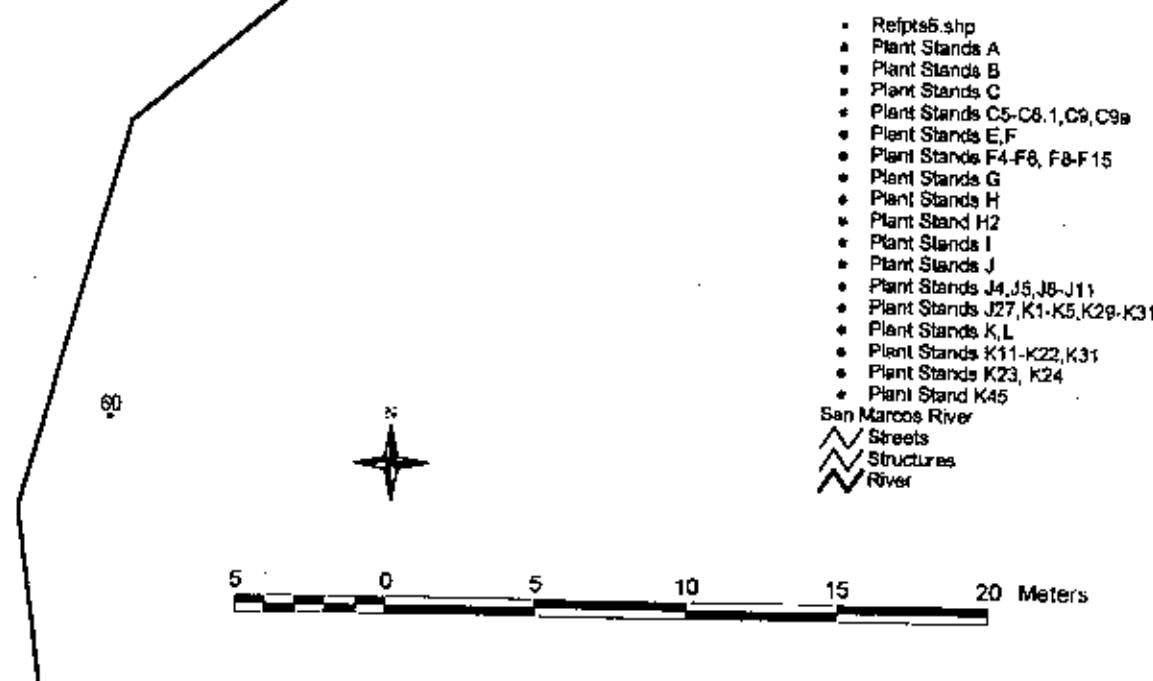
- ~~~~ Streets
- ~~~~ Structures
- ~~~~ River



# Segment C6, C6a, C7 - C8 1990



Segment C9, C9a 1990

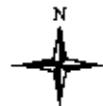


Segments C1 - C2 1991

- Plant Stands C5,C5.1,C6,C6.1,C9,C9a
- Refpts7.shp
- Plant Stands A
- Plant Stands B18,B19a-b,B21
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stand E8a
- Plant Stands G
- Plant Stands H
- Plant Stand H4
- Plant Stands I
- Plant Stands J
- Plant Stands J8-J11
- Plant Stands J27-J28,K1-K3,K11-K20,K29-K30
- Plant Stands K,L
- Plant Stand K23

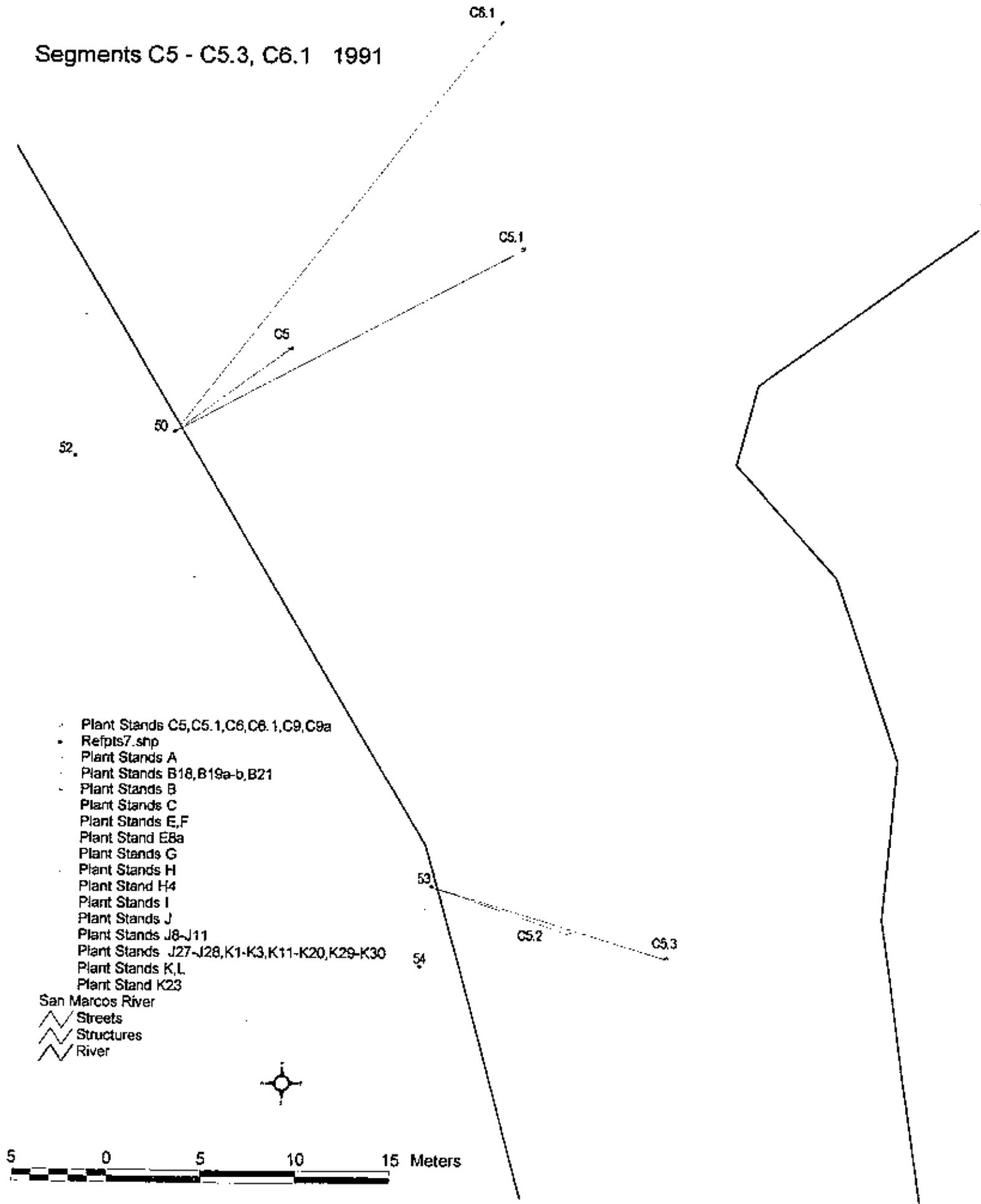
San Marcos River

- ✓ Streets
- ✓ Structures
- ✓ River

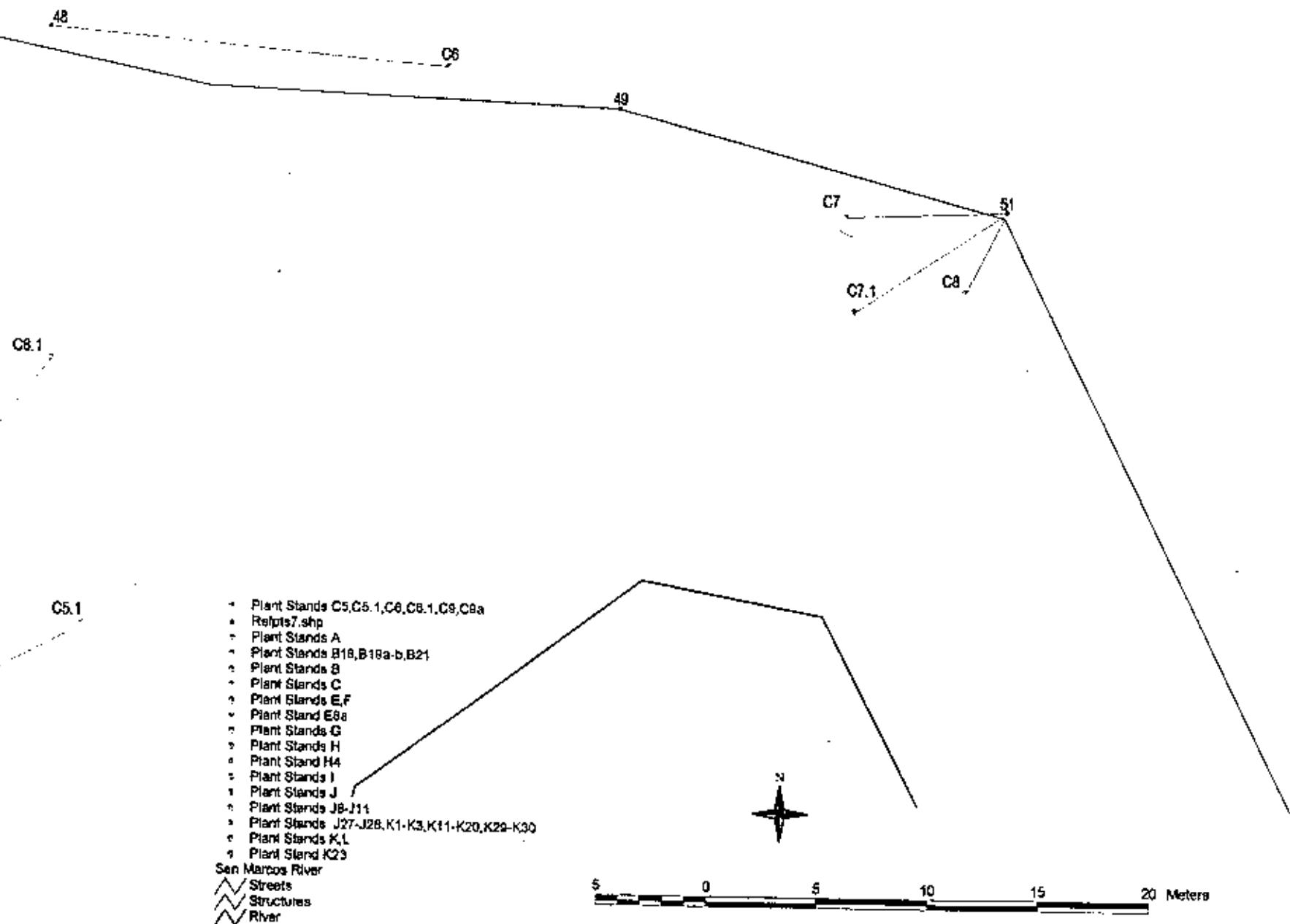


5 0 5 10 15 20 Meters

Segments C5 - C5.3, C6.1 1991



## Segment C6, C7 - C8 1991



Segment C9, C9a 1991

- Plant Stands C5,C5.1,C6,C6.1,C8,C9a
  - Refpts7.shp
  - Plant Stands A
  - Plant Stands B18,B19a-b,B21
  - Plant Stands B
  - Plant Stands C
  - Plant Stands E,F
  - Plant Stand E8a
  - Plant Stands G
  - Plant Stands H
  - Plant Stand H4
  - Plant Stands I
  - Plant Stands J
  - Plant Stands J8-J11
  - Plant Stands J27-J28,K1-K3,K11-K20,K29-K30
  - Plant Stands K,L
  - Plant Stand K23
- San Marcos River
- ~~~~ Streets
  - ~~~~ Structures
  - ~~~~ River
- 5 60      0      5      10      15 Meters

N

Segment C2 1992

45

42

C2

41

43

44

- Refpts7.shp
- Plant Stands C
- Plant Stands E
- Plant Stands E12.1, E13
- Plant Stands F
- Plant Stands F4.1, F4.2
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands J
- Plant Stands J28, K, L
- Plant Stand K23

San Marcos River

-  Streets
-  Structures
-  River



5 0 5 10 15 20 Meters

# Segments C5, C5.1 1992

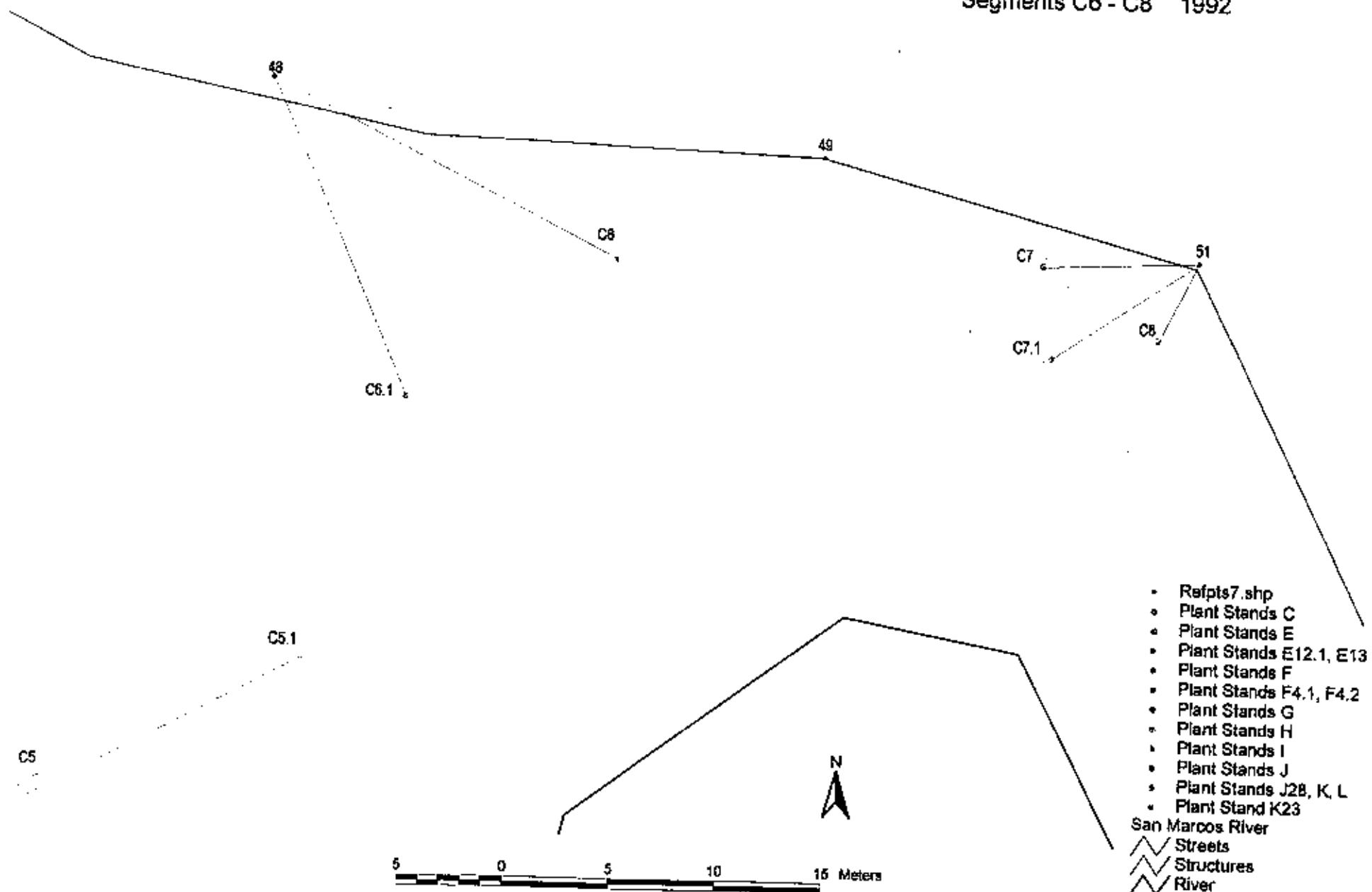
- Refpts7.shp
- Plant Stands C
- Plant Stands E
- Plant Stands E12.1, E13
- Plant Stands F
- Plant Stands F4.1, F4.2
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands J
- Plant Stands J28, K, L
- Plant Stand K23

San Marcos River

- Streets
- Structures
- River



Segments C6 - C8 1992



Segment C9 1992

56  
5  
C9



5 0 5 10 15 20 Meters

- Refpts7.shp
- Plant Stands C
- Plant Stands E
- Plant Stands E12.1, E13
- Plant Stands F
- Plant Stands F4.1, F4.2
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands J
- Plant Stands J28, K, L
- Plant Stand K23

San Marcos River  
Streets  
Structures  
River

Segment C1, C2 1993

42

C1

C2

43

44

- Plant Stands C5b, C9
- Refpts8.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands E1-E5
- Plant Stands F2, F11-F15
- Plant Stands - G,H1
- Plant Stands H2-H3
- Plant Stands I
- Plant Stands J
- Plant Stands J9-J11
- Plant Stands K,L
- Plant Stands K11-K20,K29-K30
- Plant Stands K37-K44

San Marcos River

- △ Streets
- ▲ Structures
- ◆ River



5 0 5 10 15 Meters

## Segment C3.1 1993

- Plant Stands C5b, C9
- Refpls8.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands E1-E5
- Plant Stands F2, F11-F15
- Plant Stands - G,H1
- Plant Stands H2-H3
- Plant Stands I
- Plant Stands J
- Plant Stands J9-J11
- Plant Stands K,L
- Plant Stands K11-K20,K29-K30
- Plant Stands K37-K44

San Marcos River

- Streets
- Structures
- River

C3.1

47

48

5 0 5 10 15 20 Meters



# Segment C5 - C5.3, C6.1 1990

52

C5

C5.1

C5a

53

C5.2

C5.3

C6a

- Refpts6.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands C5-C6.1,C9,C9a
- Plant Stands E,F
- Plant Stands F4-F6, F8-F15
- Plant Stands G
- Plant Stands H
- Plant Stand H2
- Plant Stands I
- Plant Stands J
- Plant Stands J4,J5,J8-J11
- Plant Stands J27,K1-K5,K29-K31
- Plant Stands K,L
- Plant Stands K11-K22,K31
- Plant Stands K23, K24
- Plant Stand K45

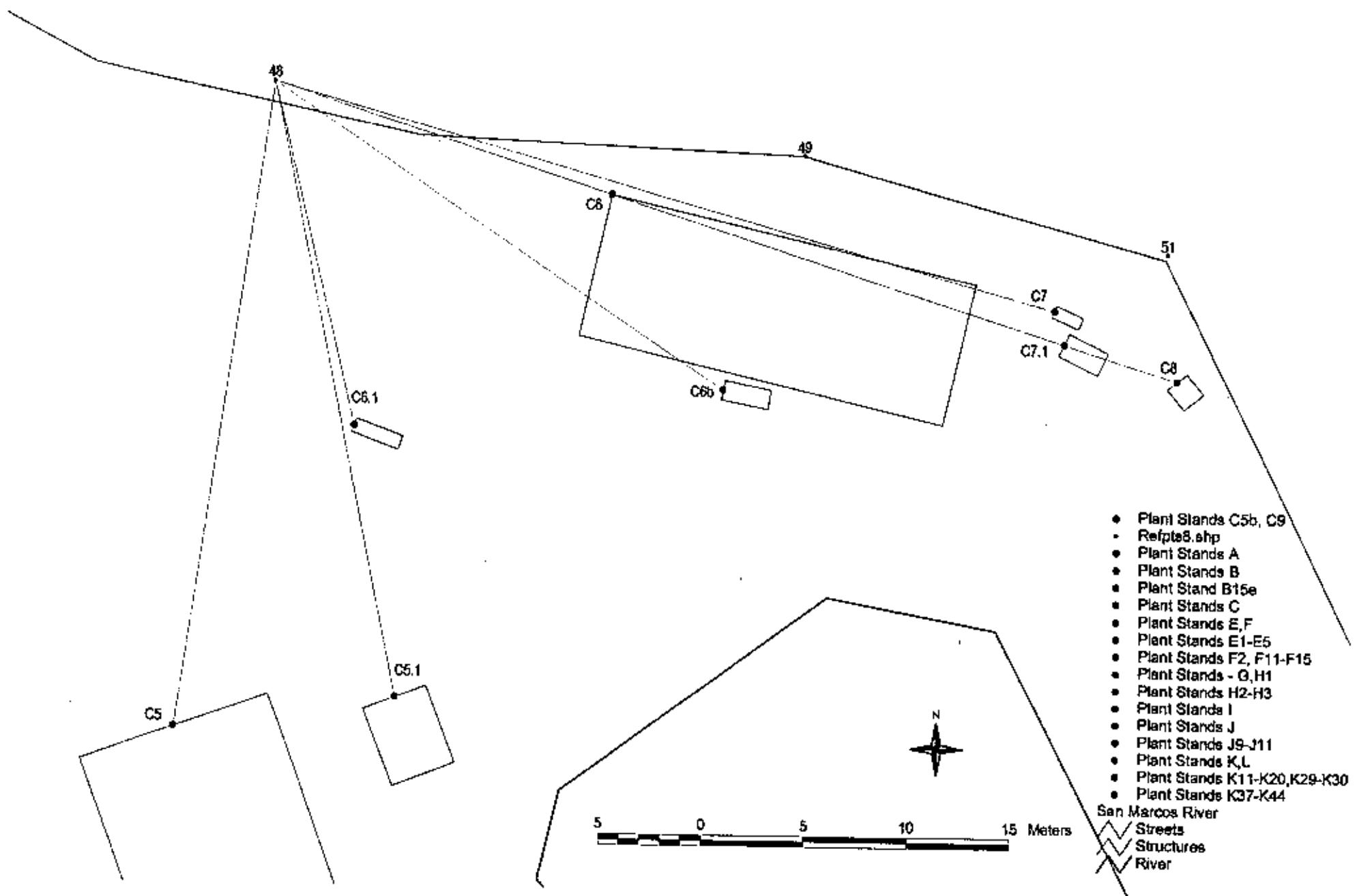
San Marcos River

- △ Streets
- △ Structures
- △ River

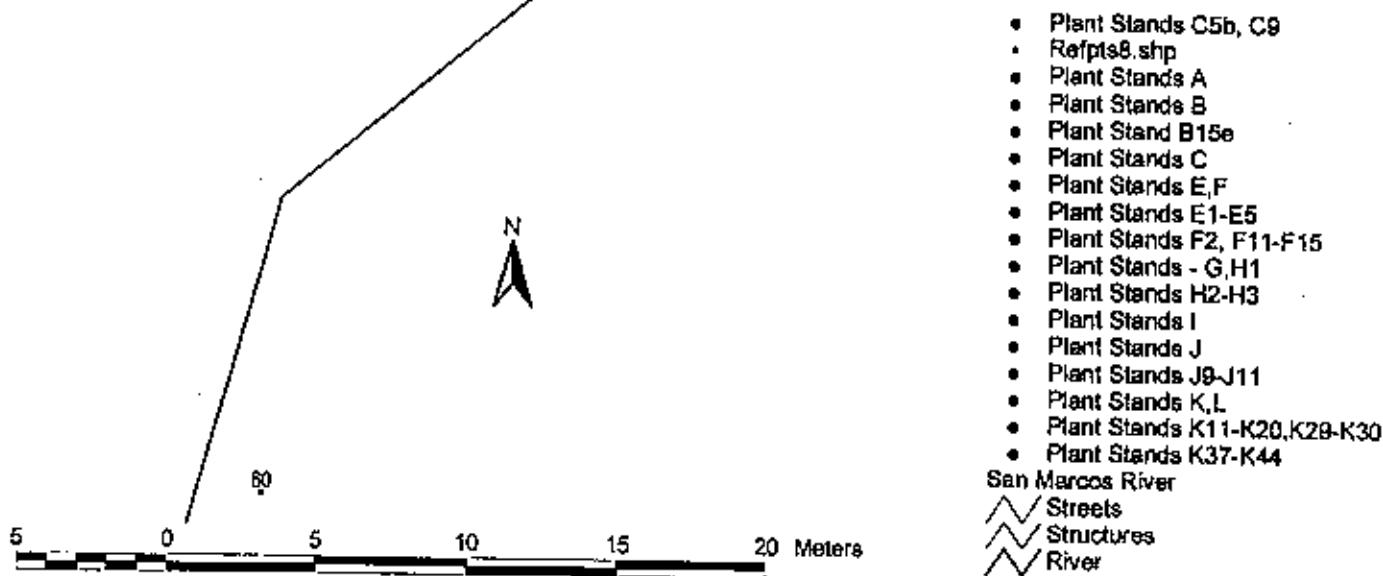


0 5 10 15 20 Meters

# Segment C6, C6b, C7 - C8 1993



Segments C9 1993



X Segments C1, C2 1994

45

42

C1

C2

43

44

- Plant Stands C5b,C5.4,C5.5,C9
- Repts8.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stand E9.3
- Plant Stands F11-F15
- Plant Stands G,H0a.
- Plant Stands H2-H2b
- Plant Stands I,J
- Plant Stands J9-J11
- Plant Stands K,L
- Plant Stands K11.2-K20,K29-K30,K37-K45

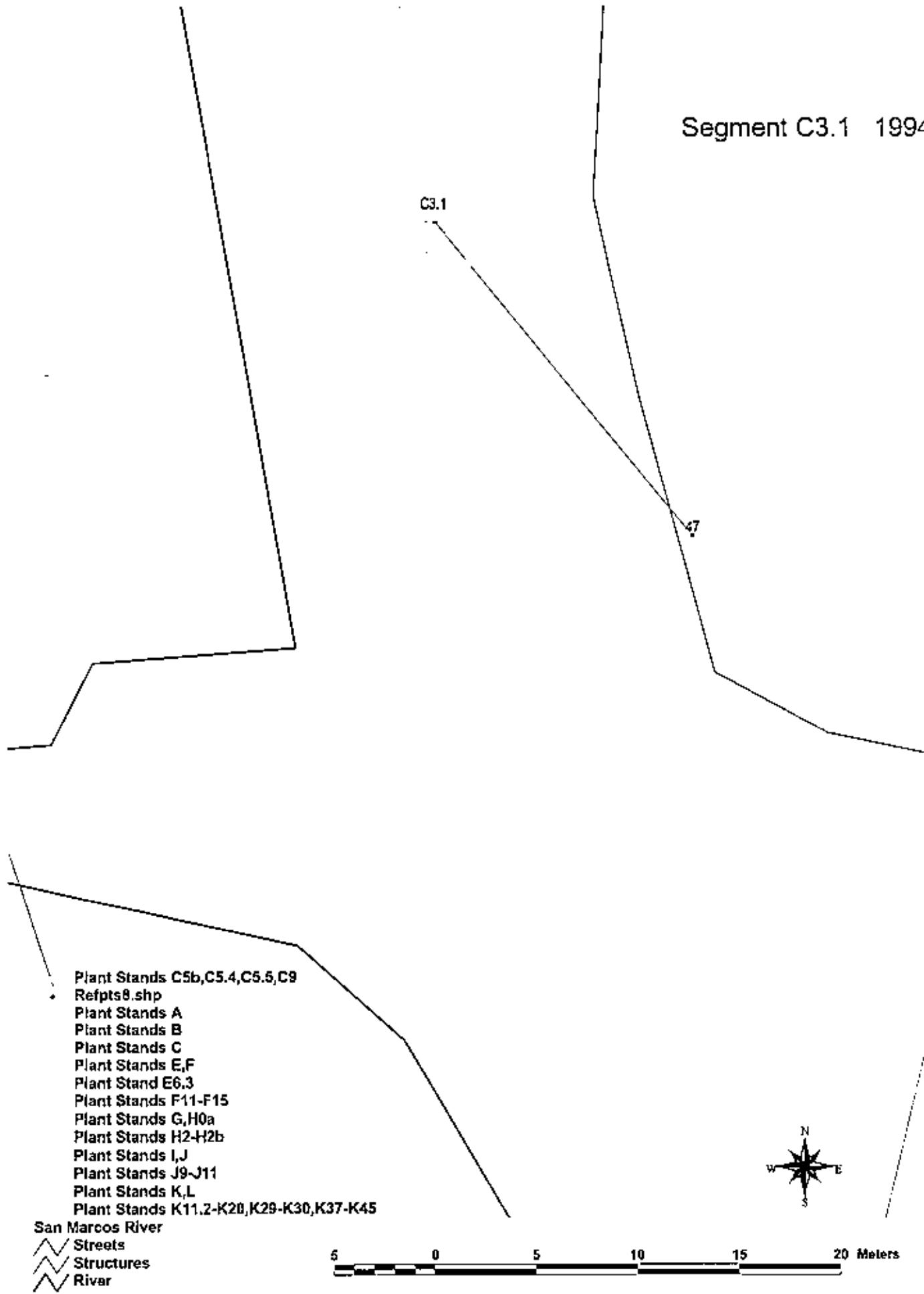
San Marcos River

-  Streets
-  Structures
-  River



5 0 5 10 15 20 25 Meters

Segment C3.1 1994



Segment C5, C5.1 1994

C5

C5.1

48

49

C6b

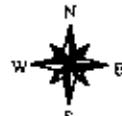
S1

C4

C5b

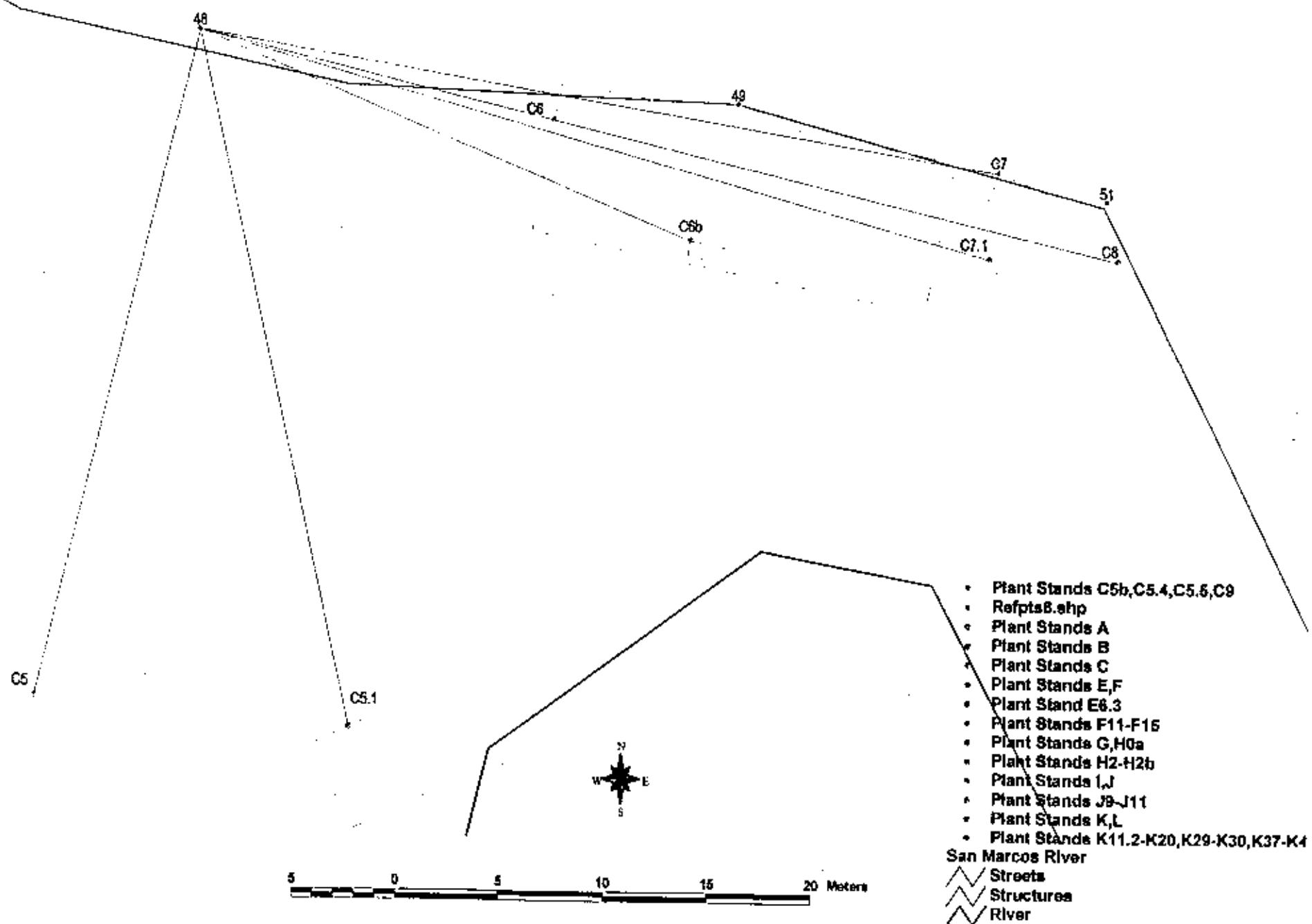
C5.4

- Plant Stands C5b,C5.4,C5.5,C9
  - Refpts&.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands C
  - Plant Stands E,F
  - Plant Stand E6.3
  - Plant Stands F11-F15
  - Plant Stands G,H0a
  - Plant Stands H2-H2b
  - Plant Stands I,J
  - Plant Stands J9~J11
  - Plant Stands K,L
  - Plant Stands K11.2-K20,K29-K30,K37-K
- San Marcos River
- Streets
- Structures
- River



0 5 10 15 Meters

# Segment C6 - C8 1994



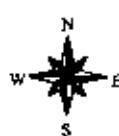
Segments C5b, C5.4, C5.5 1994

53  
54  
C5b  
C5.4  
55  
C5.5

- Plant Stands C5b,C5.4,C5.5,C9
- Refpts8.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stand E6.3
- Plant Stands F11-F15
- Plant Stands G,H0a
- Plant Stands H2-H2b
- Plant Stands I,J
- Plant Stands J9-J11
- Plant Stands K,L
- Plant Stands K11.2-K20,K29-K30,K37-K45

San Marcos River

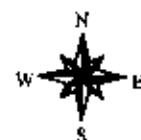
- ~~ Streets
- ~~ Structures
- ~~ River



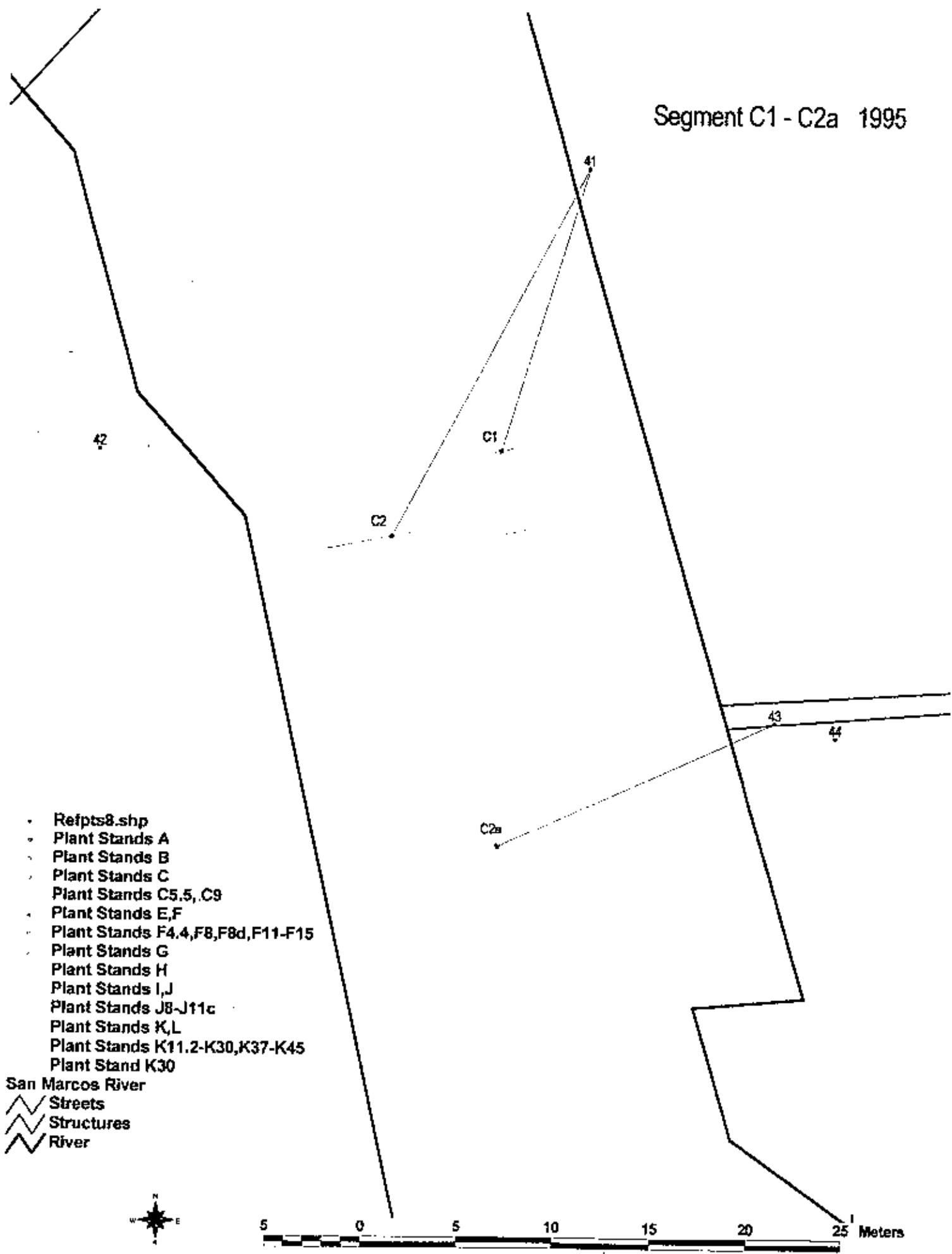
5 0 5 10 15 20 25 30 Meters

# Segment C9 1994

- Plant Stands C5b,C5.4,C5.5,C9
  - Refpts8.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands C
  - Plant Stands E,F
  - Plant Stand E6.3
  - Plant Stands F11-F15
  - Plant Stands G,H0a
  - Plant Stands H2-H2b
  - Plant Stands I,J
  - Plant Stands J9-J11
  - Plant Stands K,L
  - Plant Stands K11.2-K20,K29-K30,K37-K45
- San Marcos River
- ▲ Streets
  - ▲ Structures
  - ▲ River
- 5 0 5 10 15 Meters



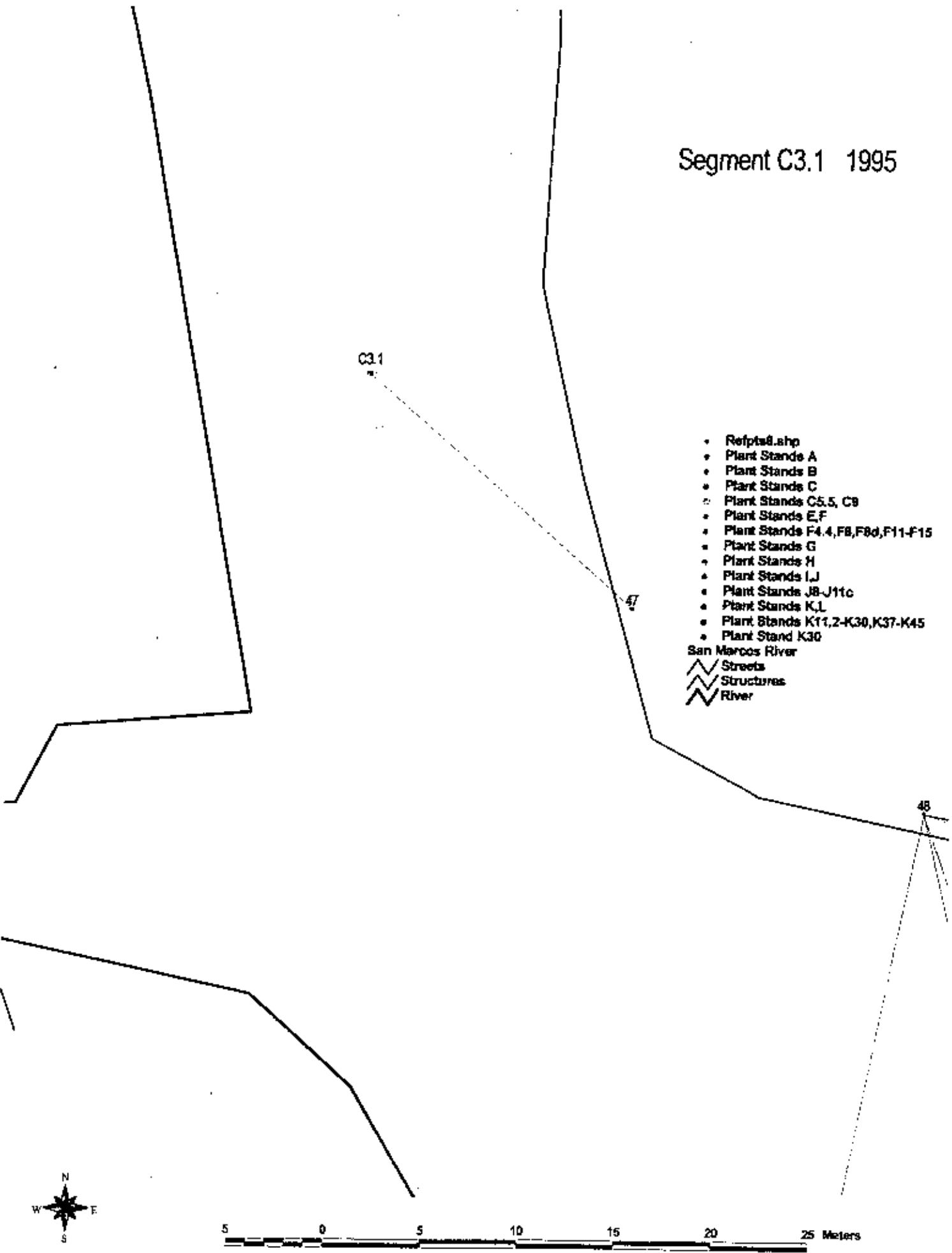
Segment C1 - C2a 1995



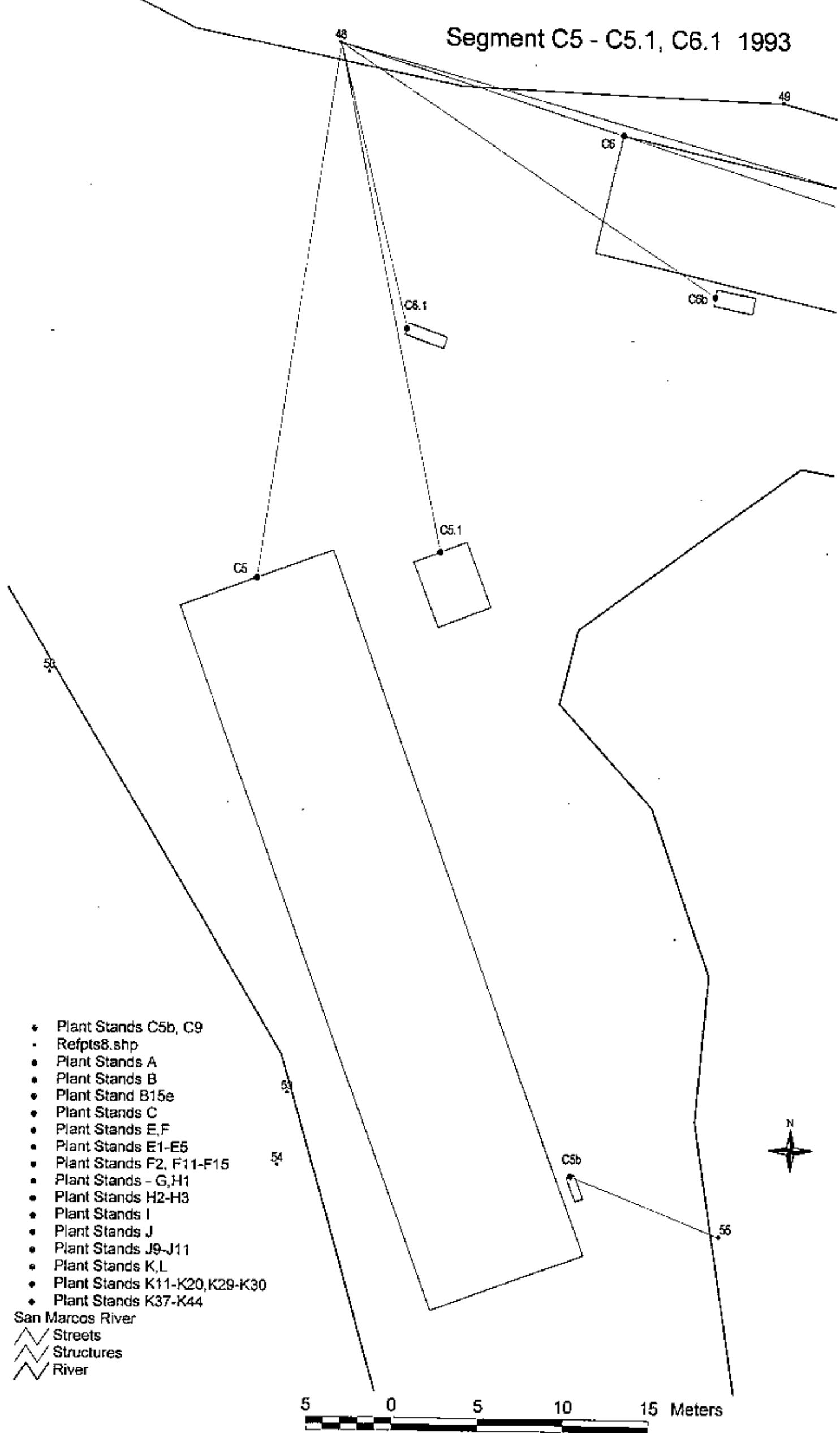
## Segment C3.1 1995

C3.1

- Reptail.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands C
  - Plant Stands C5,5, C9
  - Plant Stands E,F
  - Plant Stands F4,4,F8,F8d,F11-F15
  - Plant Stands G
  - Plant Stands H
  - Plant Stands I,J
  - Plant Stands J8-J1tc
  - Plant Stands K,L
  - Plant Stands K11,2-K30,K37-K45
  - Plant Stand K30
- San Marcos River
- △ Streets
  - △ Structures
  - △ River



# Segment C5 - C5.1, C6.1 1993



Segment C5.5 1995

- Refpts8.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands C5.5, C9
- Plant Stands E,F
- Plant Stands F4.4,F8,F8d,F11-F15
- Plant Stands G
- Plant Stands H
- Plant Stands I,J
- Plant Stands J8-J11c
- Plant Stands K,L
- Plant Stands K11.2-K30,K37-K45
- Plant Stand K30

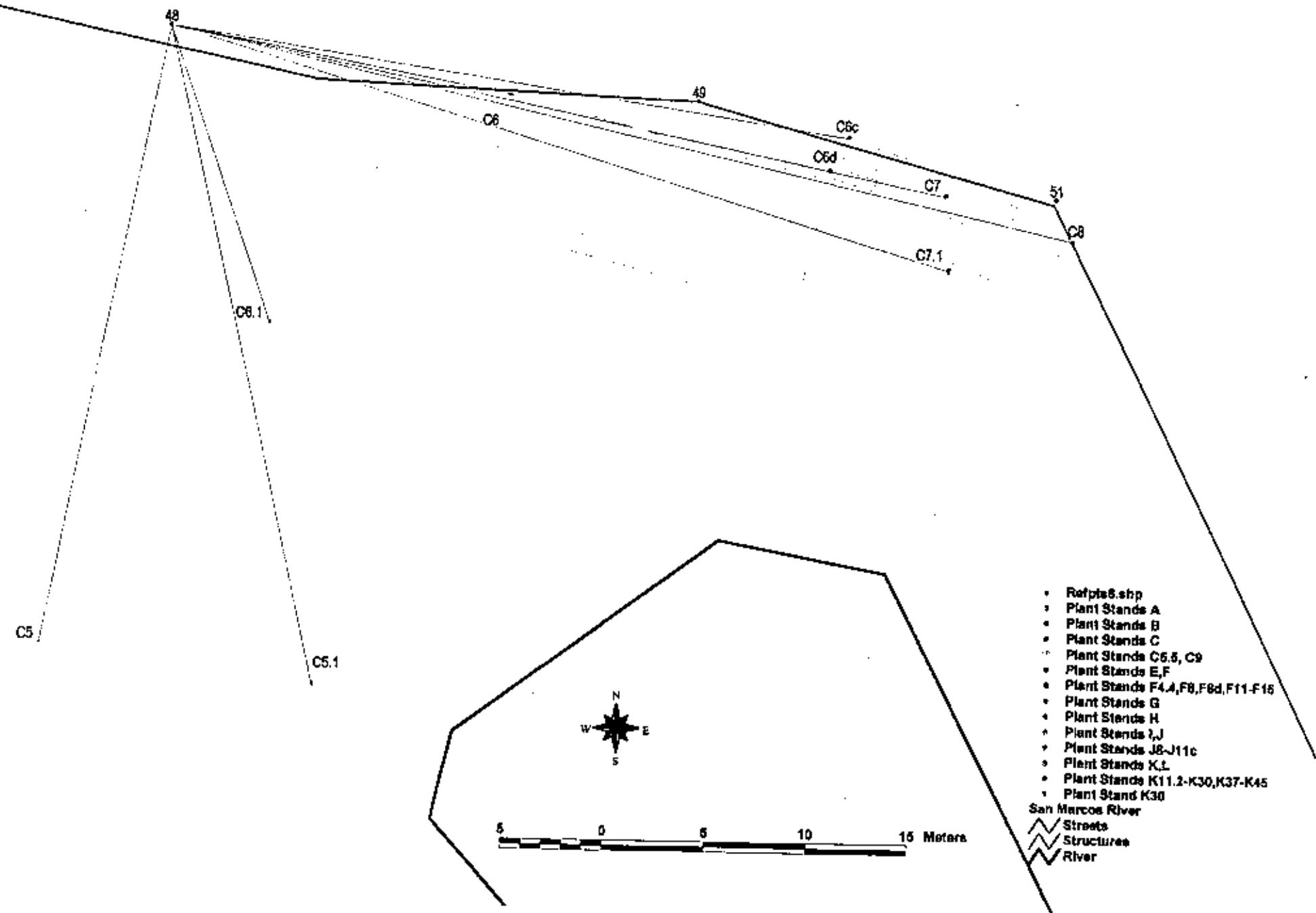
**San Marcos River**

- ✓ Streets
- ✓ Structures
- ✓ River

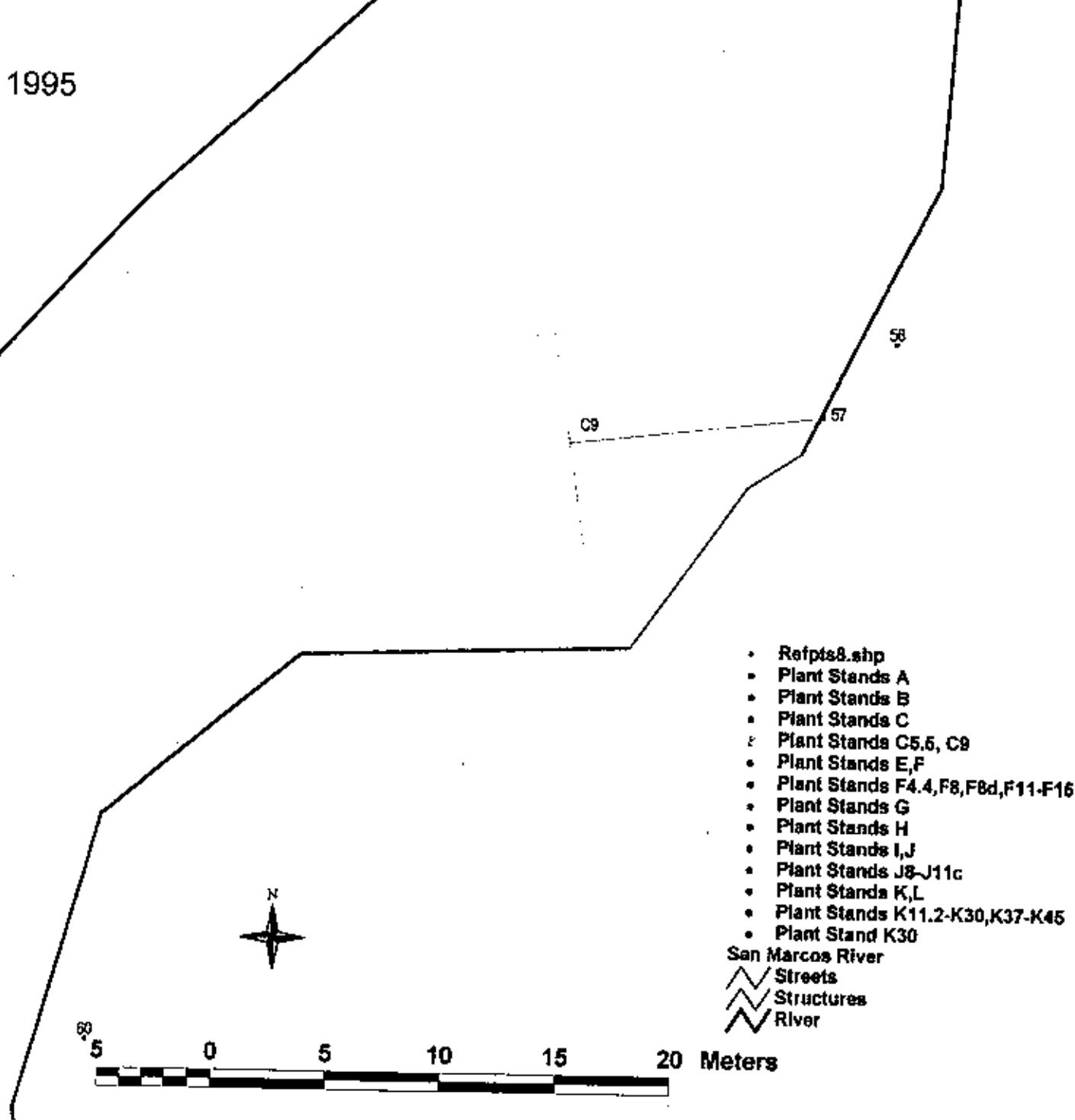


5 0 5 10 15 20 25 Meters

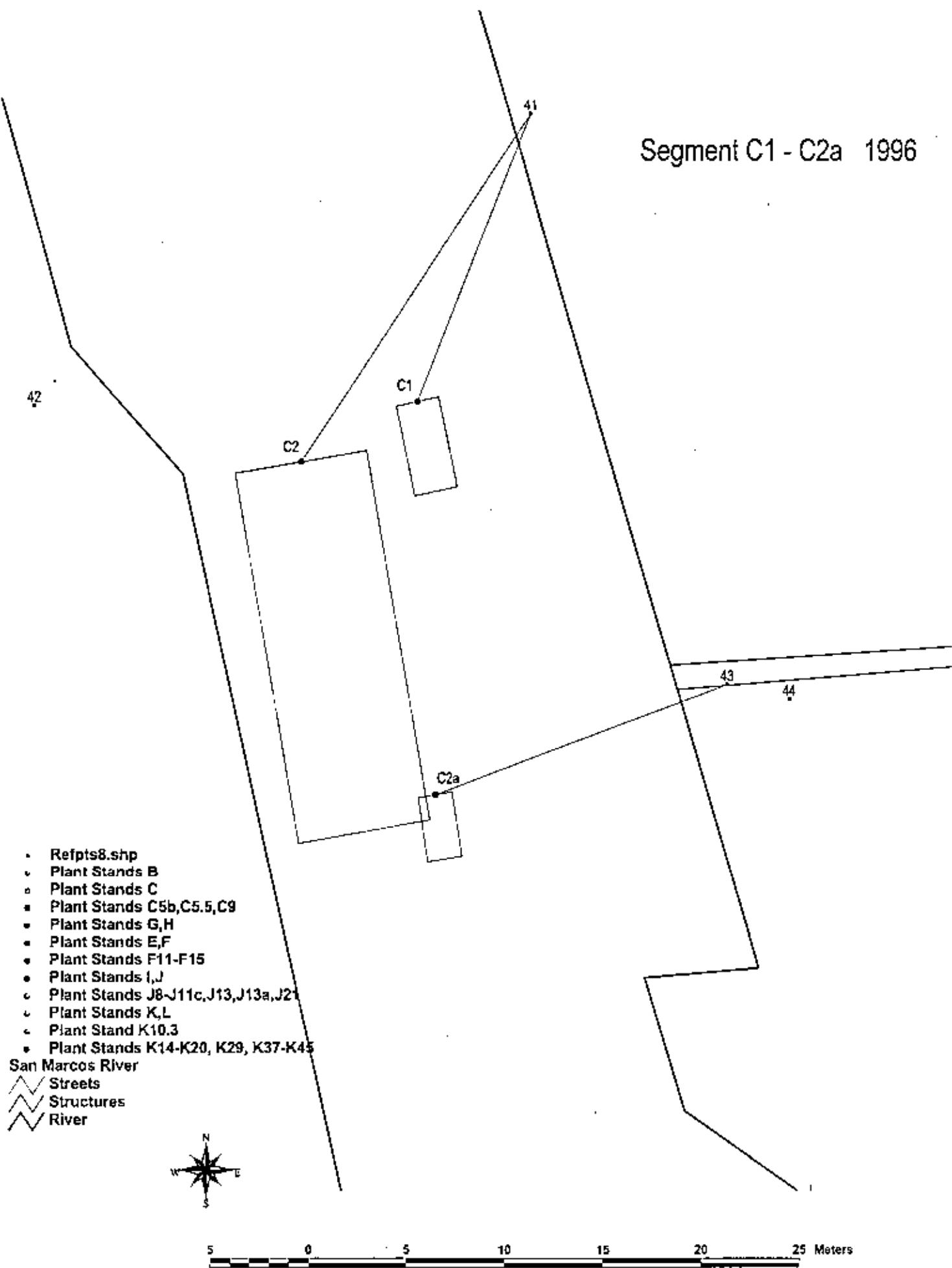
Segment C6, C6c, C6d, C7 - C8 1995



Segments C9 1995



Segment C1 - C2a 1996



Segment C3.1 1996

C3.1

47

48

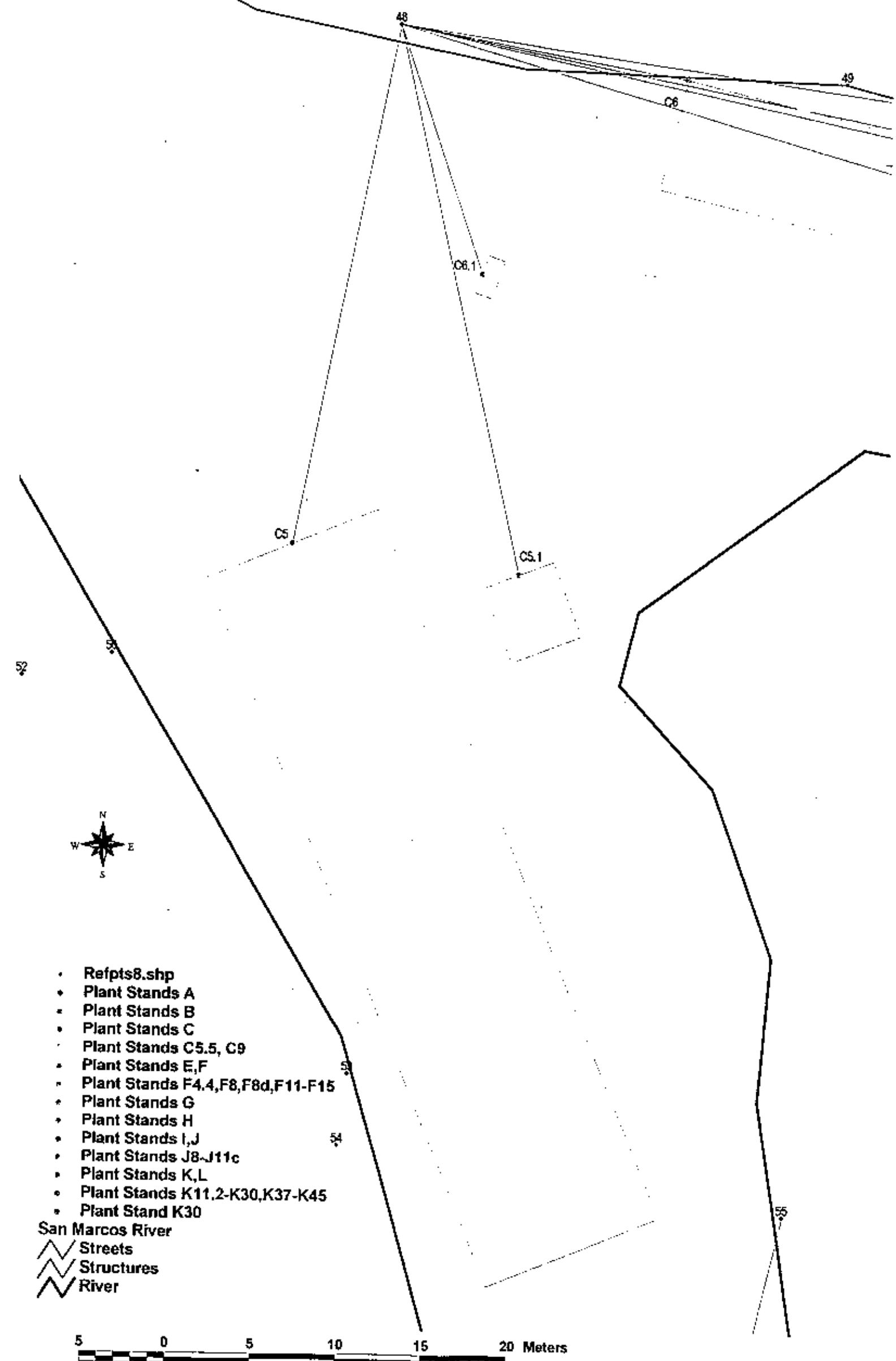
C6.1

- Refpts8.shp
  - Plant Stands B
  - Plant Stands C
  - Plant Stands C5b,C5.5,C9
  - Plant Stands G,H
  - Plant Stands E,F
  - Plant Stands F11-F15
  - Plant Stands I,J
  - Plant Stands J8-J11c,J13,J13a,J21
  - Plant Stands K,L
  - Plant Stand K10.3
  - Plant Stands K14-K20, K29, K37-K45
- San Marcos River
- ~~~~ Streets
  - ~~~~ Structures
  - ~~~~ River



5 0 5 10 15 20 25 Meters

# Segment C5, C5.1, C6.1 1995



# Segments C5b, C5.5 1996

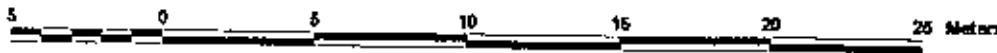
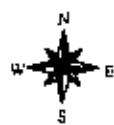
53  
54  
C5b  
55

C5.5

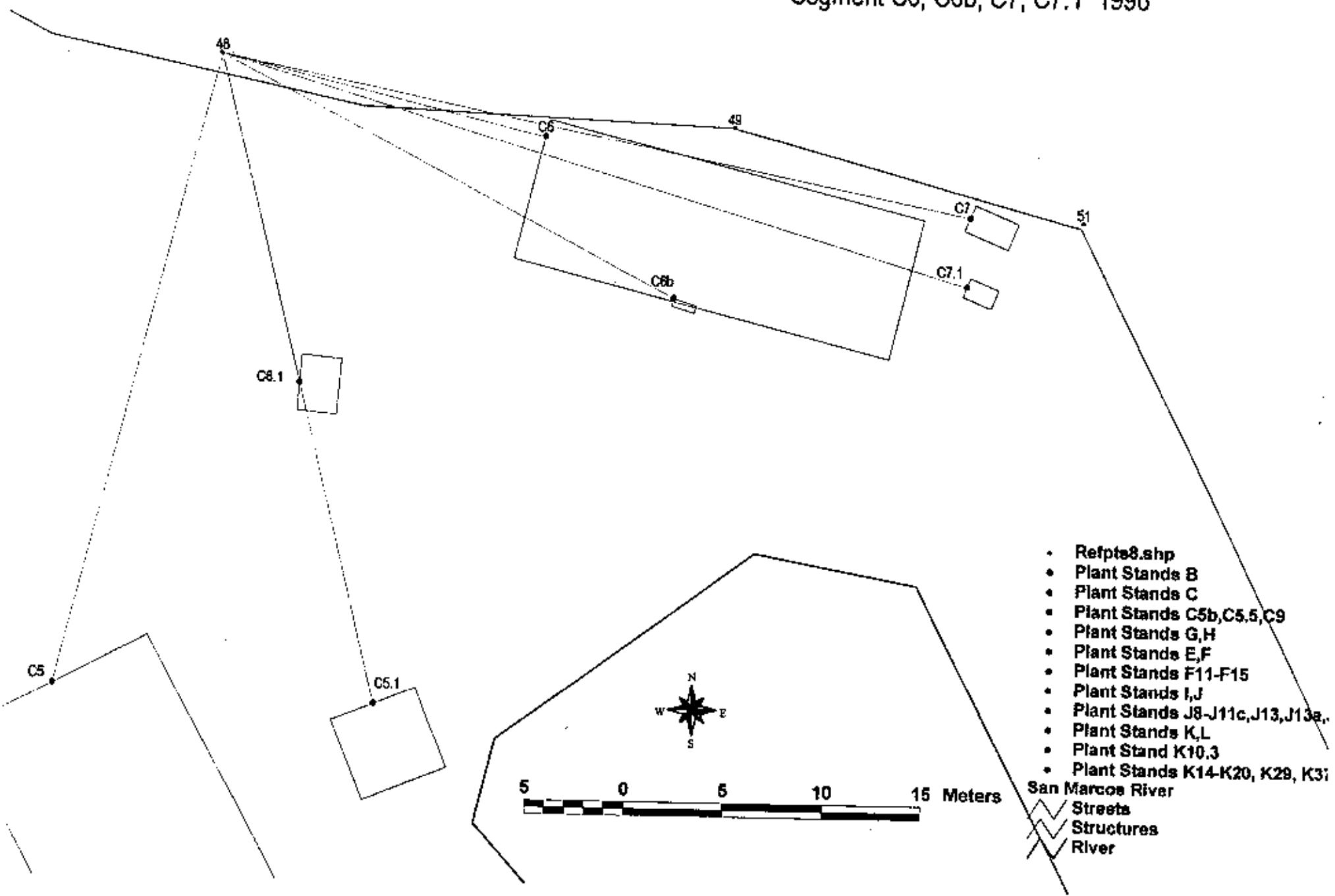
- Refpts8.shp
- Plant Stands B
- Plant Stands C
- Plant Stands C5b,C5.5,C9
- Plant Stands G,H
- Plant Stands E,F
- Plant Stands F11-F15
- Plant Stands I,J
- Plant Stands J8-J11c,J13,J13a,J21
- Plant Stands K,L
- Plant Stand K10.3
- Plant Stands K14-K20, K29, K37-K45

San Marcos River

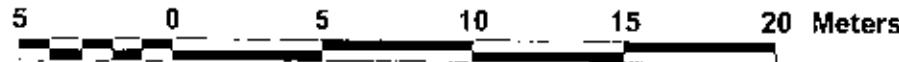
- Streets
- Structures
- River



## Segment C6, C6b, C7, C7.1 1996



Segment C9 1996

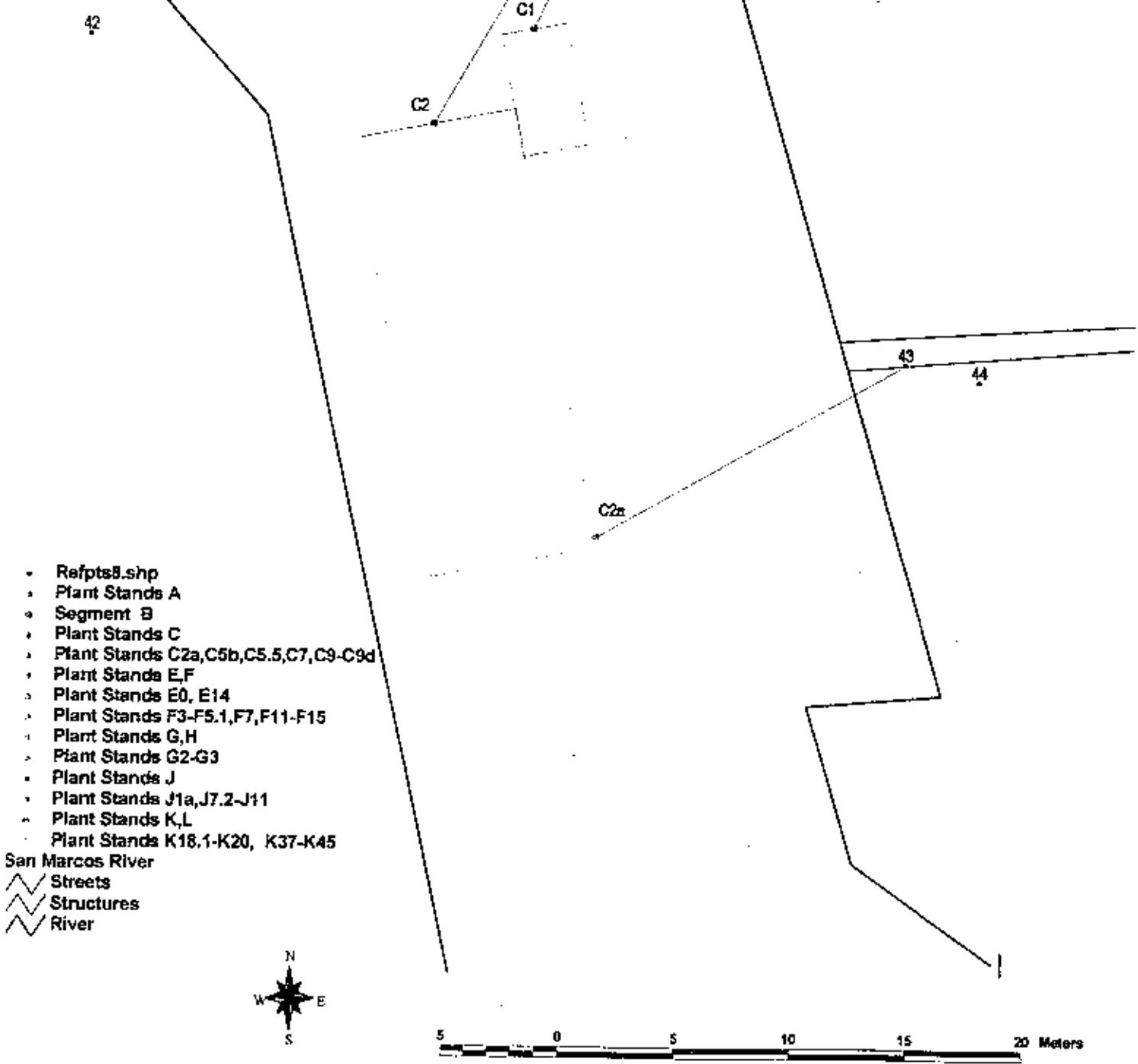


- Refpts8.shp
- Plant Stands B
- Plant Stands C
- Plant Stands C5b,C5.5,C9
- Plant Stands G,H
- Plant Stands E,F
- Plant Stands F11-F15
- Plant Stands I,J
- Plant Stands J8~J11c,J13,J13a,J21
- Plant Stands K,L
- Plant Stand K10.3
- Plant Stands K14-K20, K29, K37-K45

**San Marcos River**

- Streets
- Structures
- River

Segment C1 - C2a 1997



## Segment C3.1 1997

C3.1

47

48

- Refpts8.shp
- Plant Stands A
- Segment B
- Plant Stands C
- Plant Stands C2a,C5b,C5.5,C7,C9-C9d
- Plant Stands E,F
- Plant Stands E0, E14
- Plant Stands F3-F5.1,F7,F11-F15
- Plant Stands G,H
- Plant Stands G2-G3
- Plant Stands J
- Plant Stands J1a,J7.2-J11
- Plant Stands K,L
- Plant Stands K18.1-K20, K37-K45

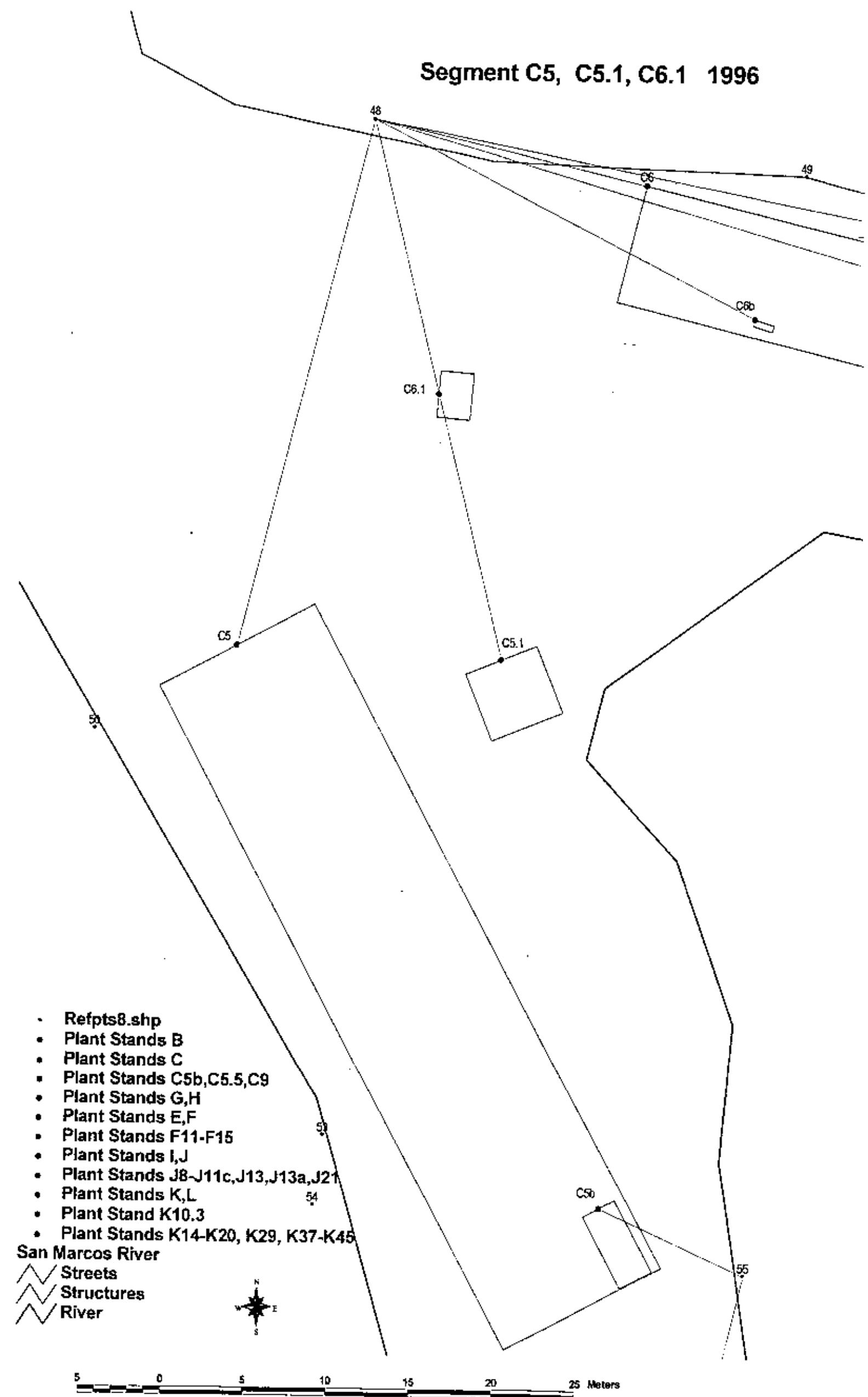
### San Marcos River

- △ Streets
- △ Structures
- △ River



5 0 5 10 15 20 Meters

## Segment C5, C5.1, C6.1 1996



Segments C5b, C5.5 1997

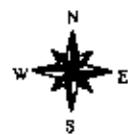
53  
54  
C5b  
55

C5.5

- Refpts8.shp
- Plant Stands A
- ✓ Segment B
- Plant Stands C
- Plant Stands C2a,C5b,C5.5,C7,C9-C9d
- Plant Stands E,F
- Plant Stands E0, E14
- Plant Stands F3-F5.1,F7,F11-F15
- Plant Stands G,H
- Plant Stands G2-G3
- Plant Stands J
- Plant Stands J1a,J7.2-J11
- Plant Stands K,L
- Plant Stands K18.1-K20, K37-K45

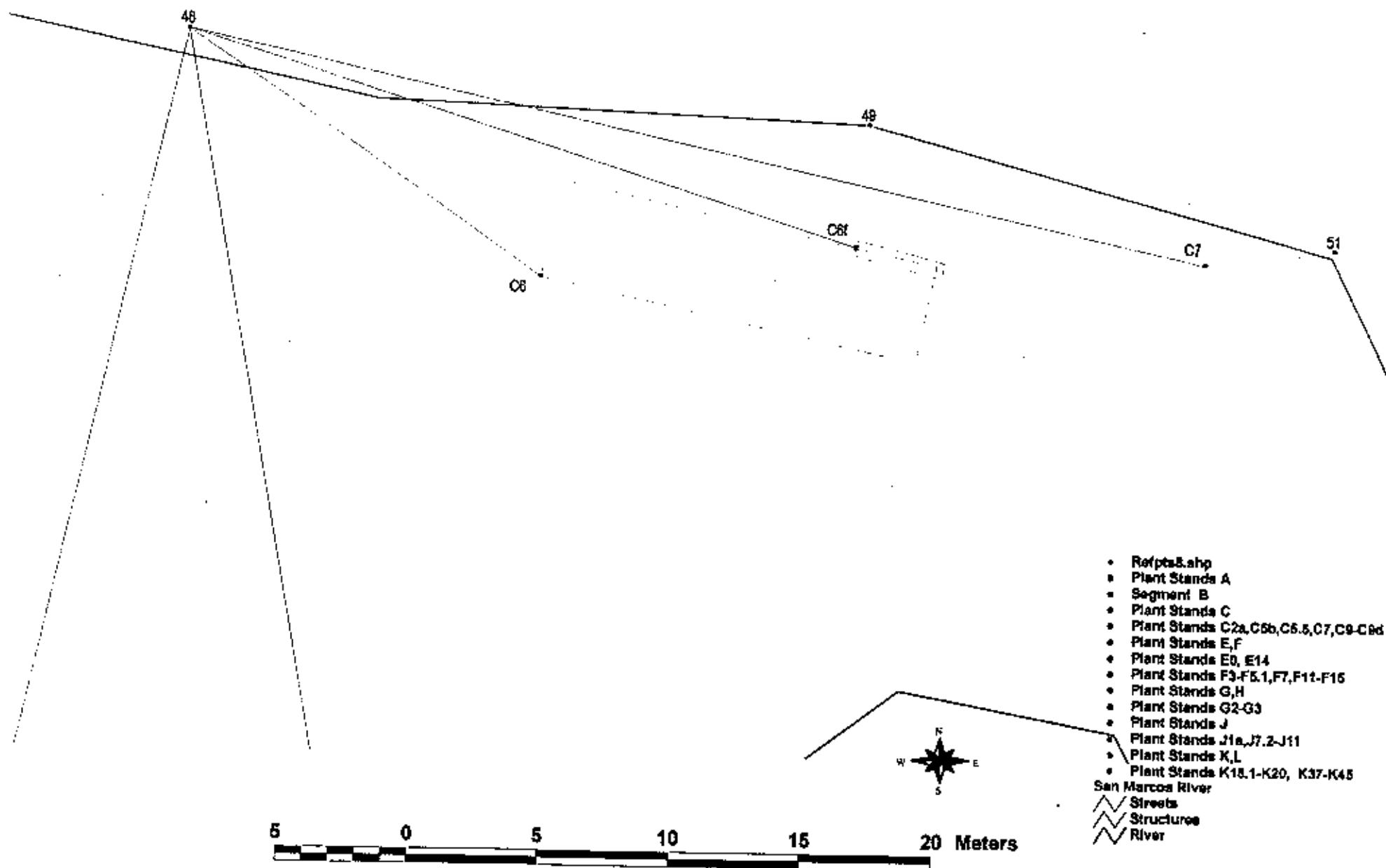
San Marcos River

- ✓ Streets
- ✓ Structures
- ✓ River

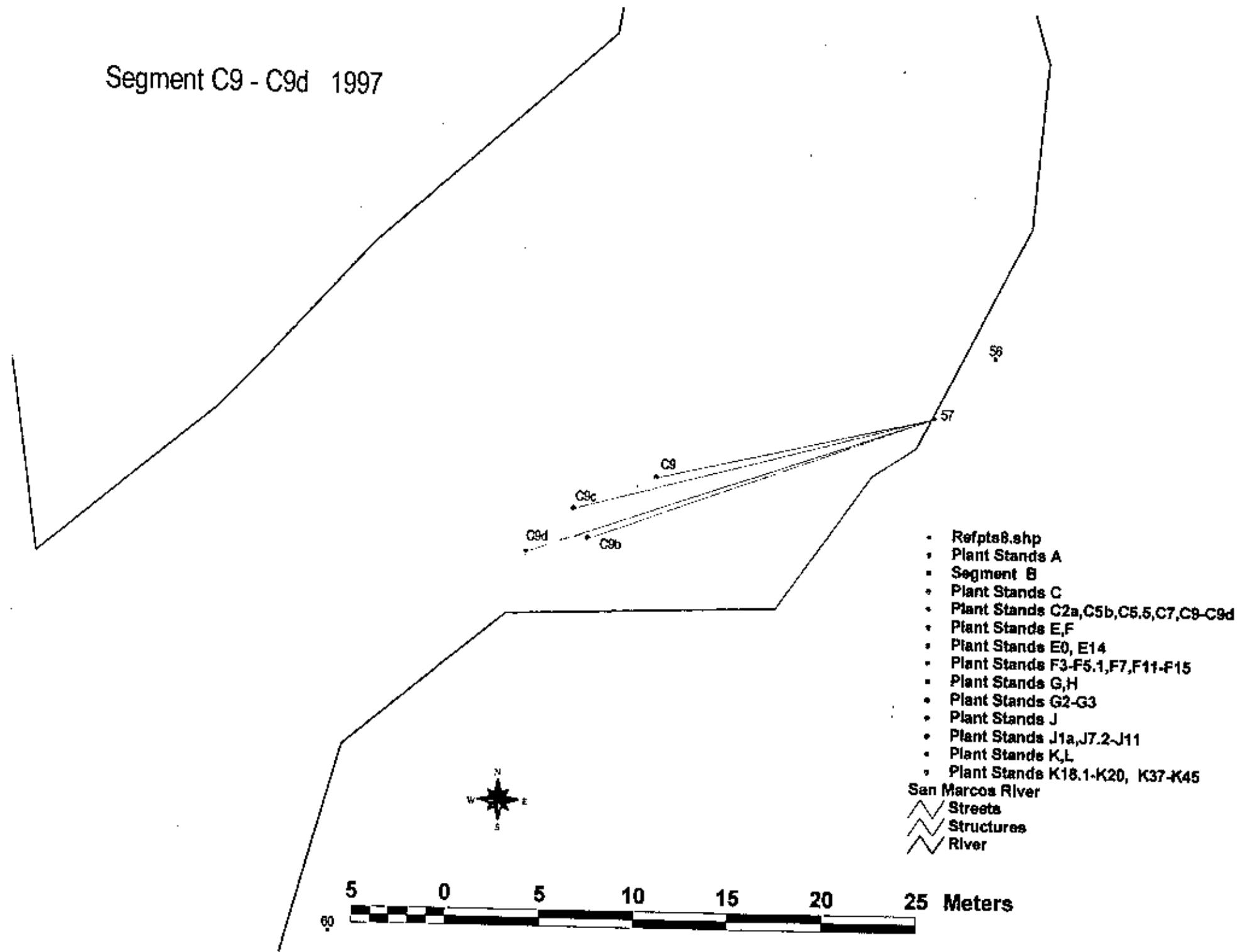


4 0 4 8 12 16 20 Meters

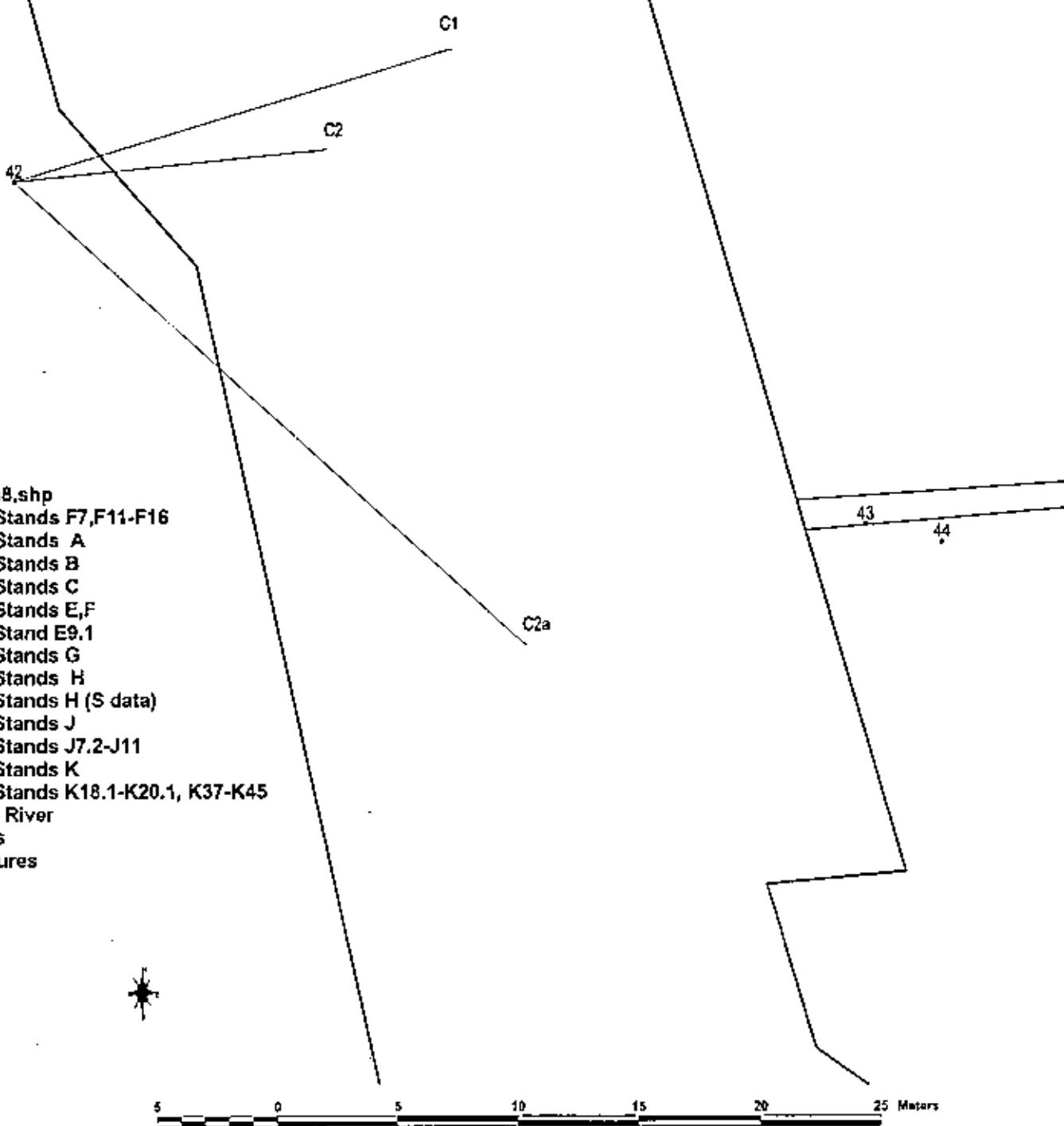
## Segments C6 - C7 1997



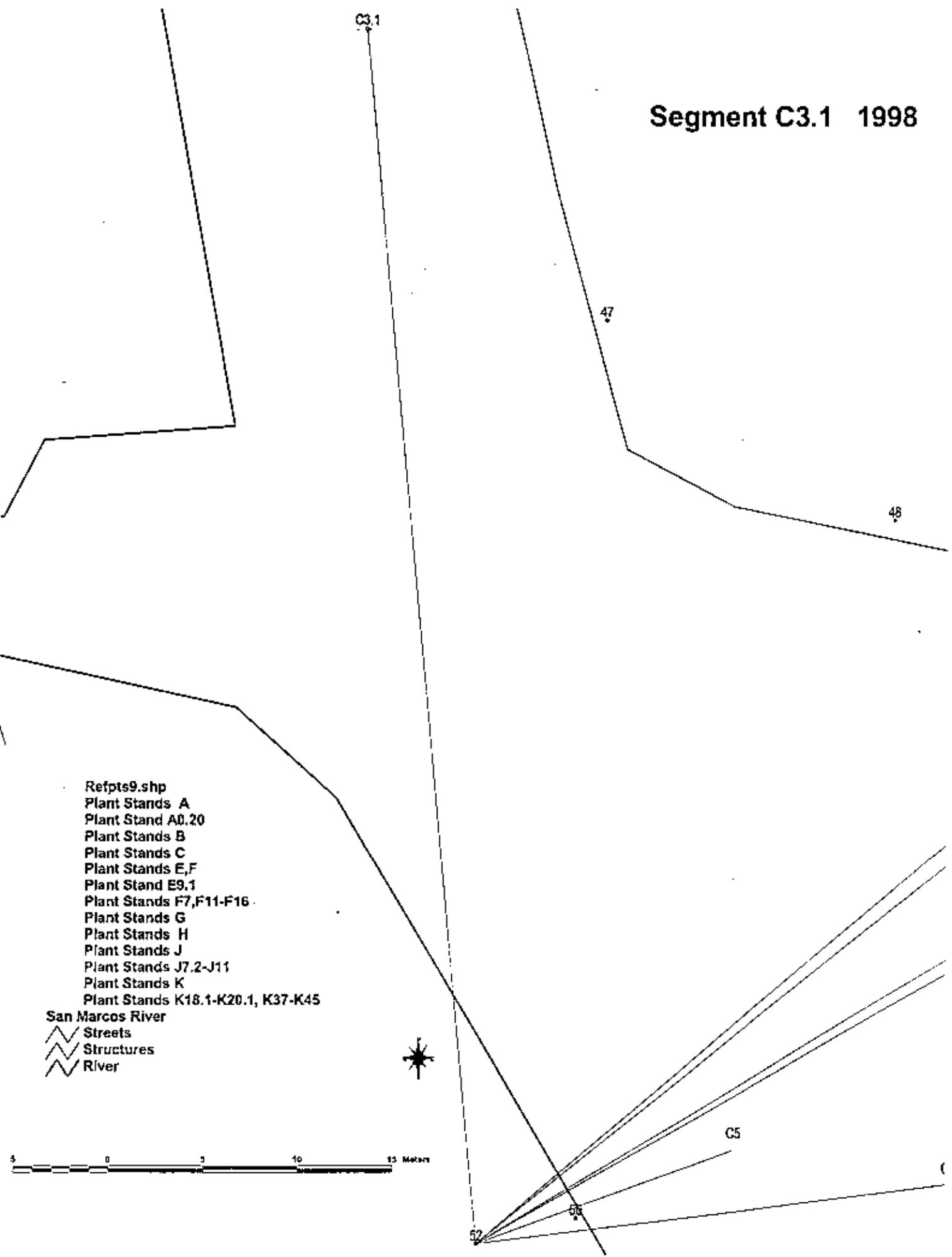
Segment C9 - C9d 1997



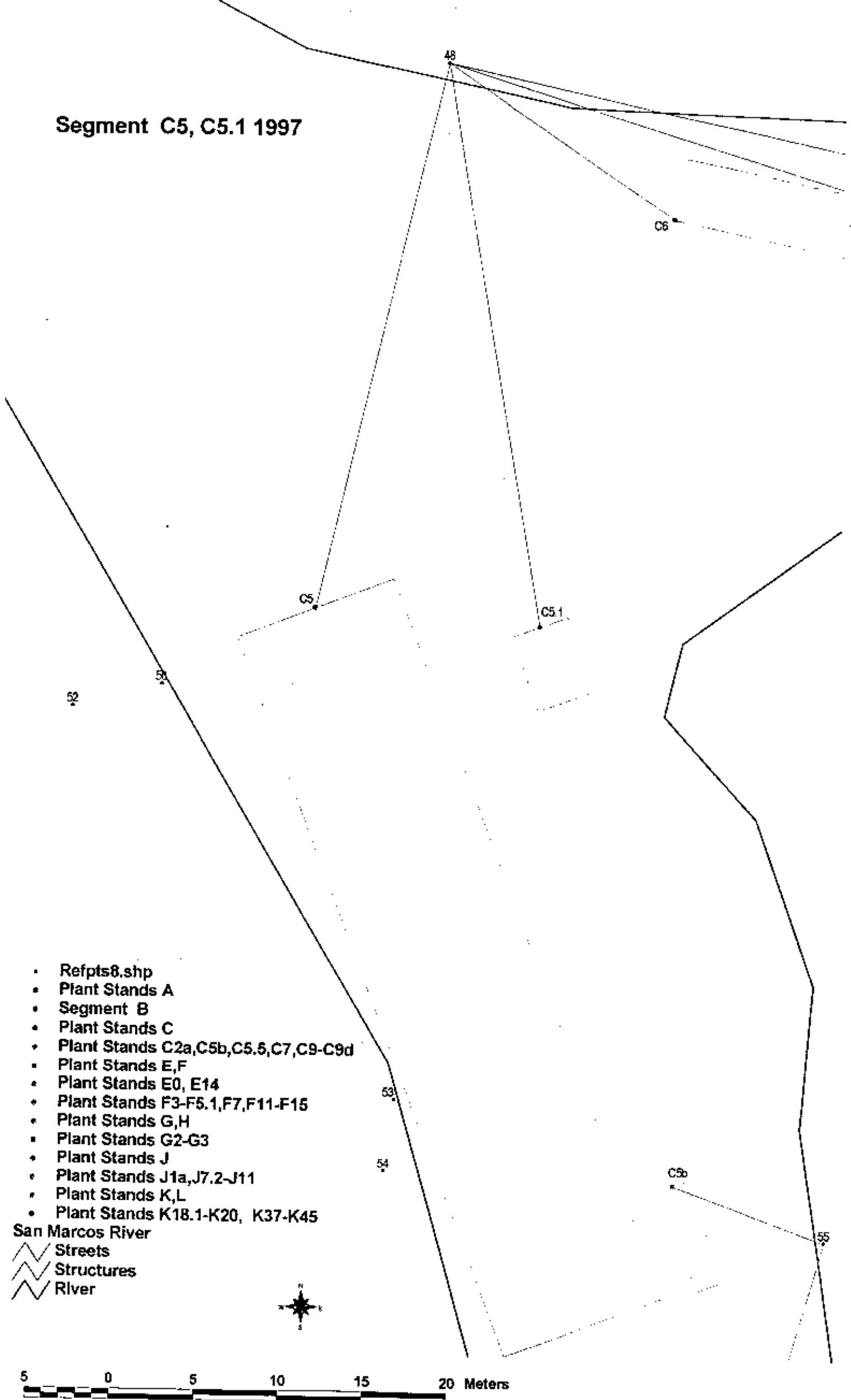
# Segment C1 - C2a 1998



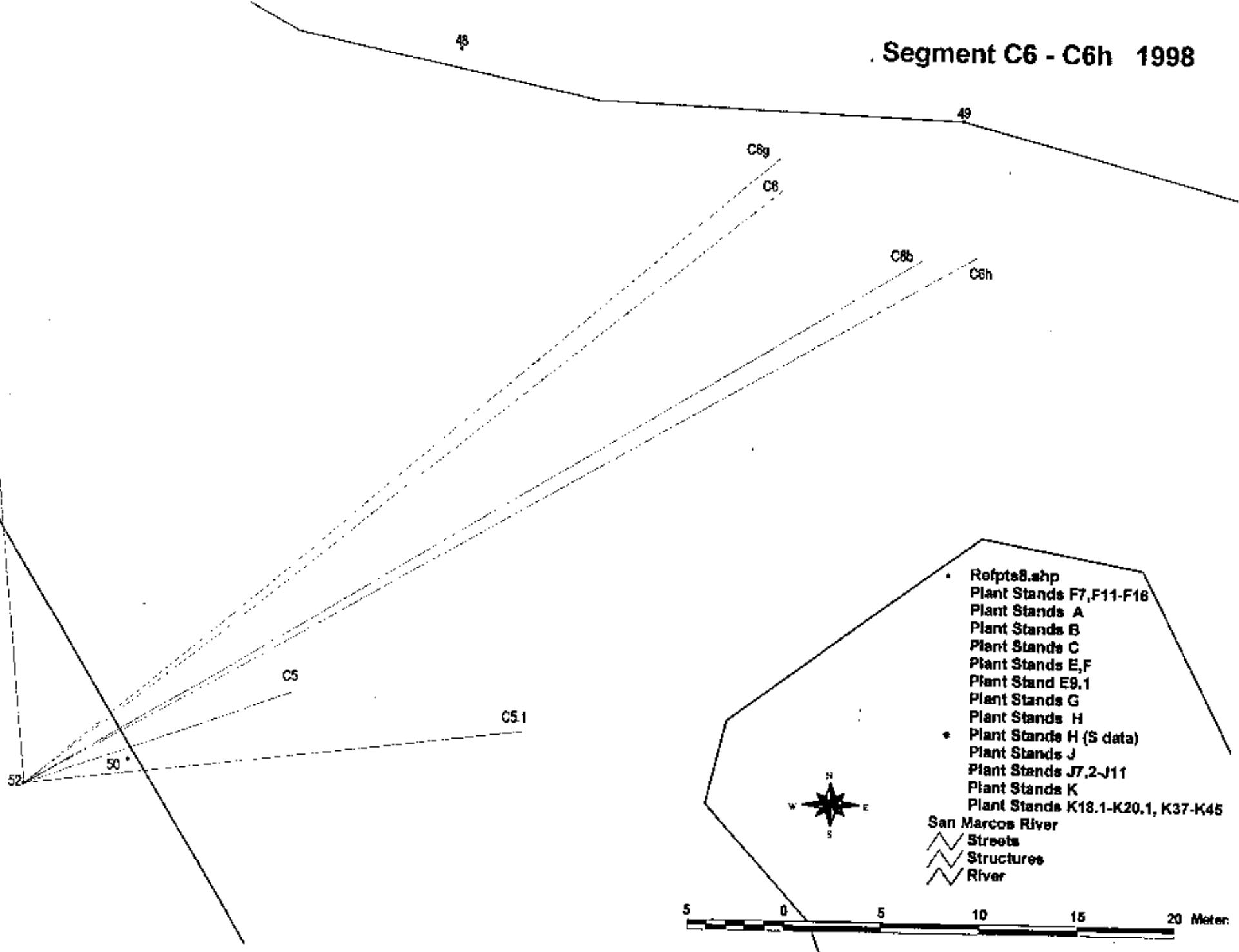
## Segment C3.1 1998



## Segment C5, C5.1 1997



# Segment C6 - C6h 1998



**Segment C9 - C9d 1998**

C9c  
C9  
C9d  
C9b

56

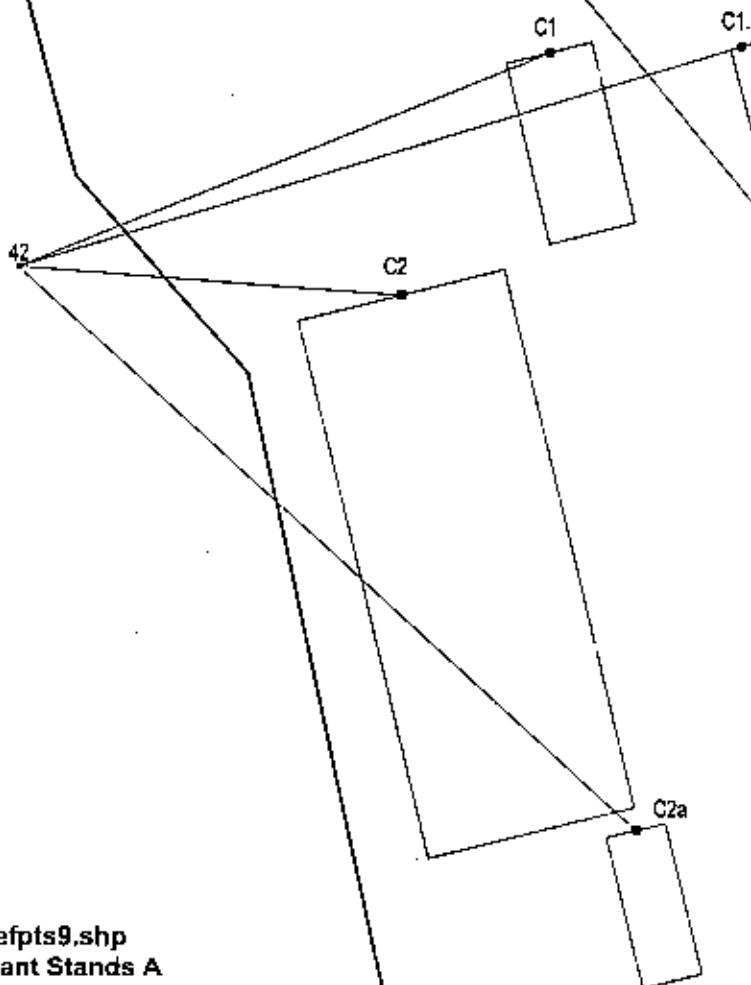
37

60

- Refpts8.shp
  - Plant Stands F7,F11-F16
  - Plant Stands A
  - Plant Stands B
  - Plant Stands C
  - Plant Stands E,F
  - Plant Stand E9,1
  - Plant Stands G
  - Plant Stands H
  - Plant Stands J
  - Plant Stands J7.2-J11
  - Plant Stands K
  - Plant Stands K18.1-K20.1, K37-K45
- San Marcos River
- Streets
  - Structures
  - River



**Segment C1 - C2a 1999**



- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands B1a+
- Plant Stand B2.2
- Plant Stands C
- Plant Stands E,F
- Plant Stands E9, E9.1
- Plant Stands G, H
- Plant Stands J
- Plant Stands K

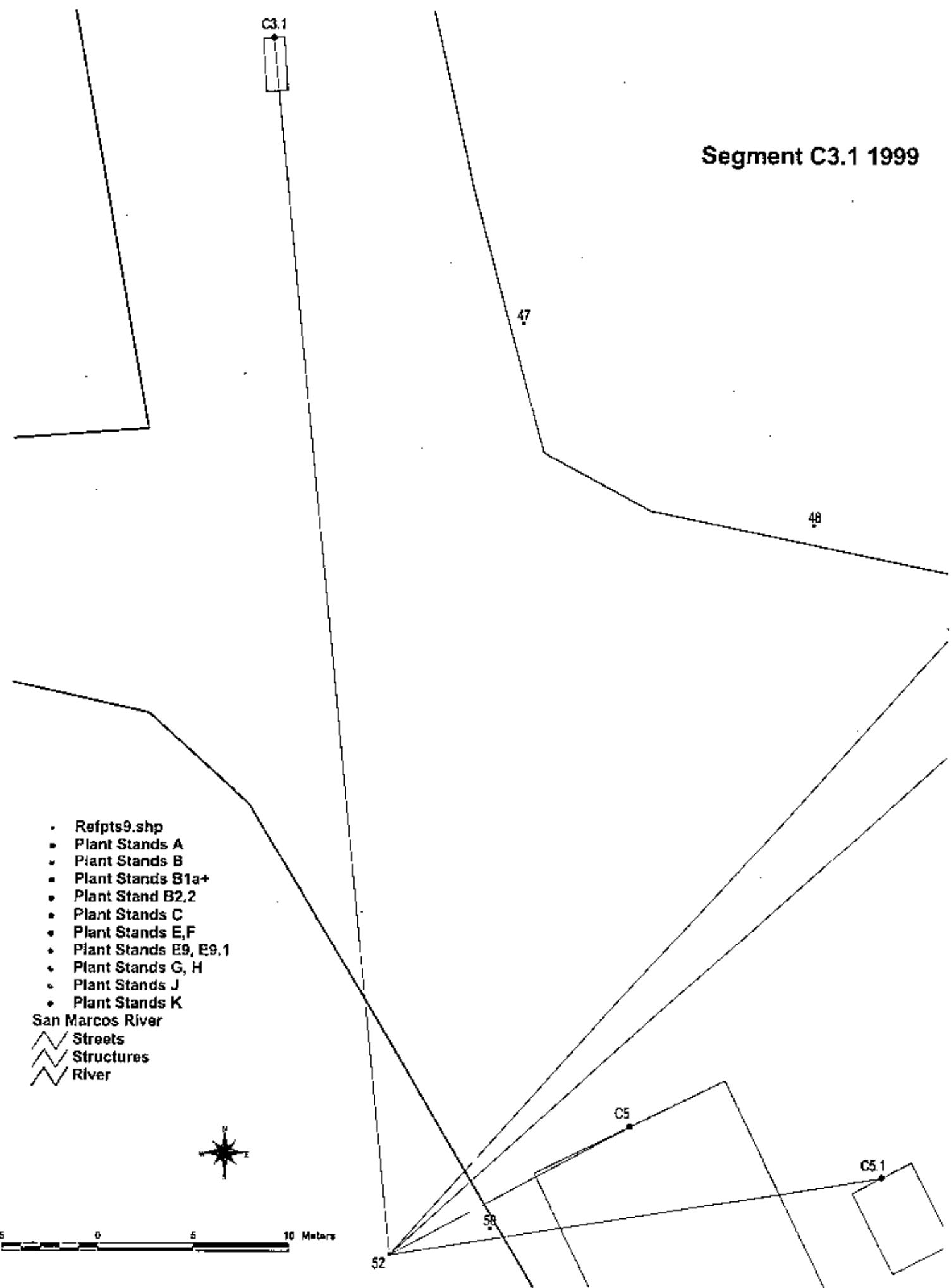
San Marcos River

- △ Streets
- △ Structures
- △ River

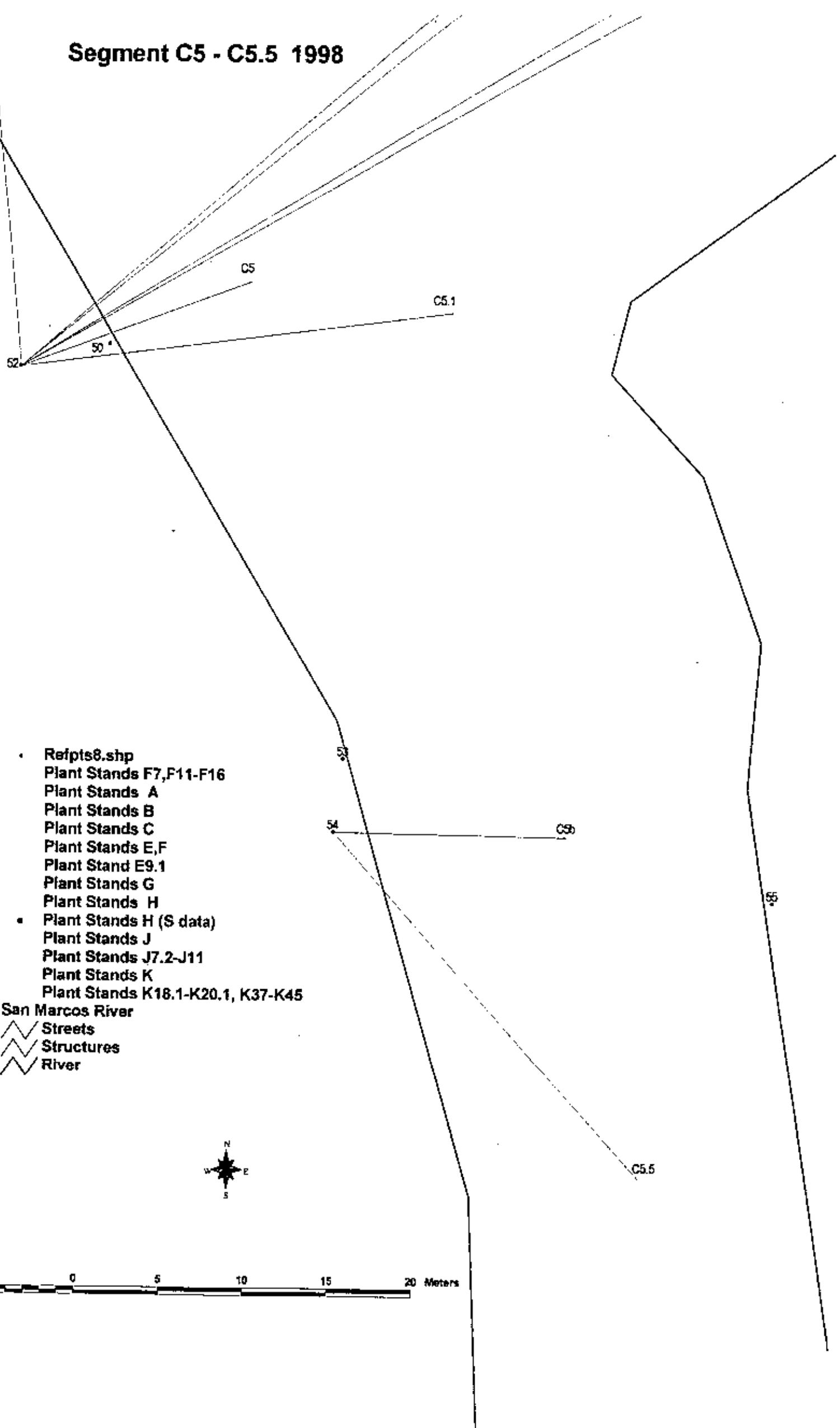


5 0 5 10 15 20 25 Meters

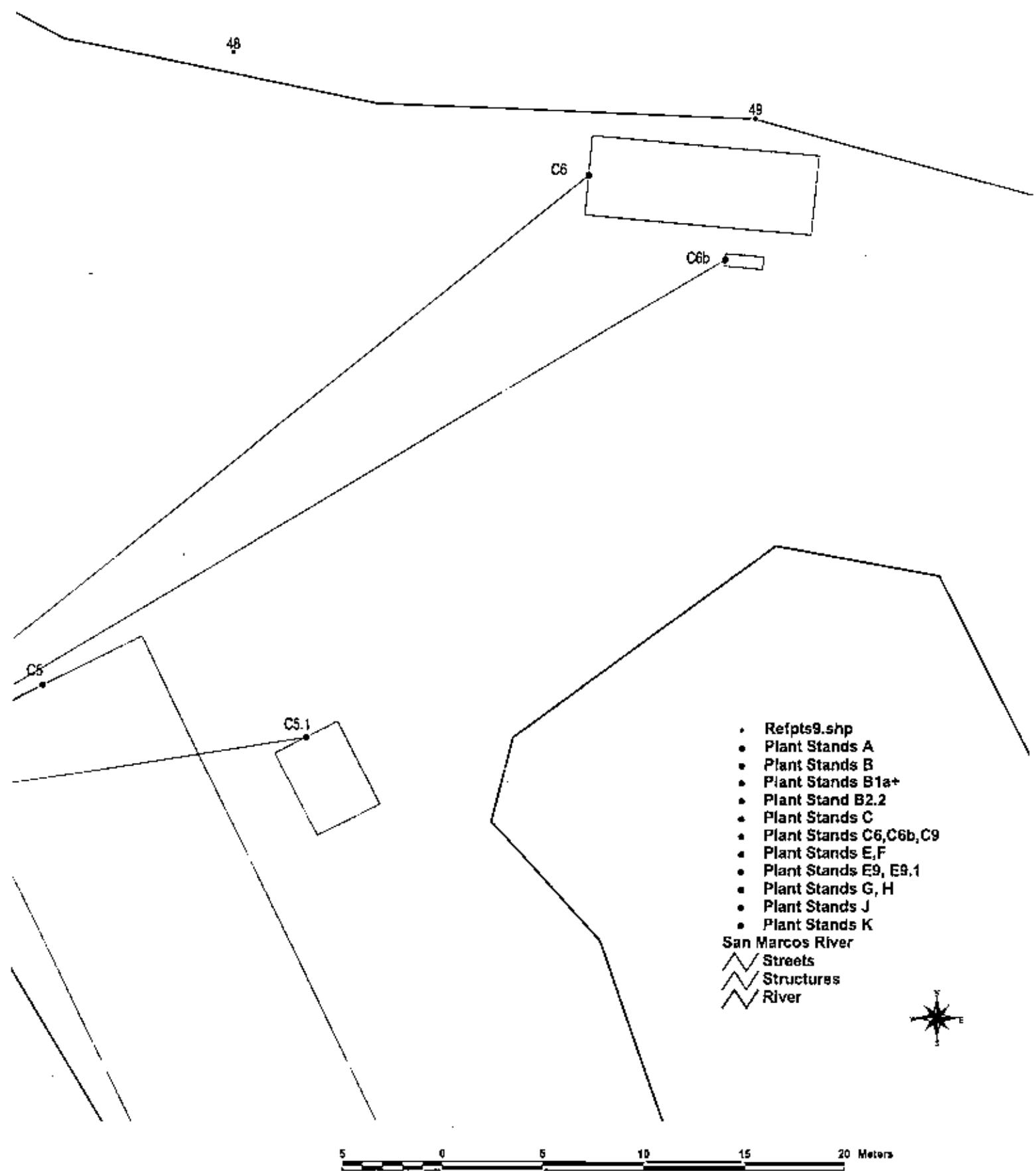
## Segment C3.1 1999



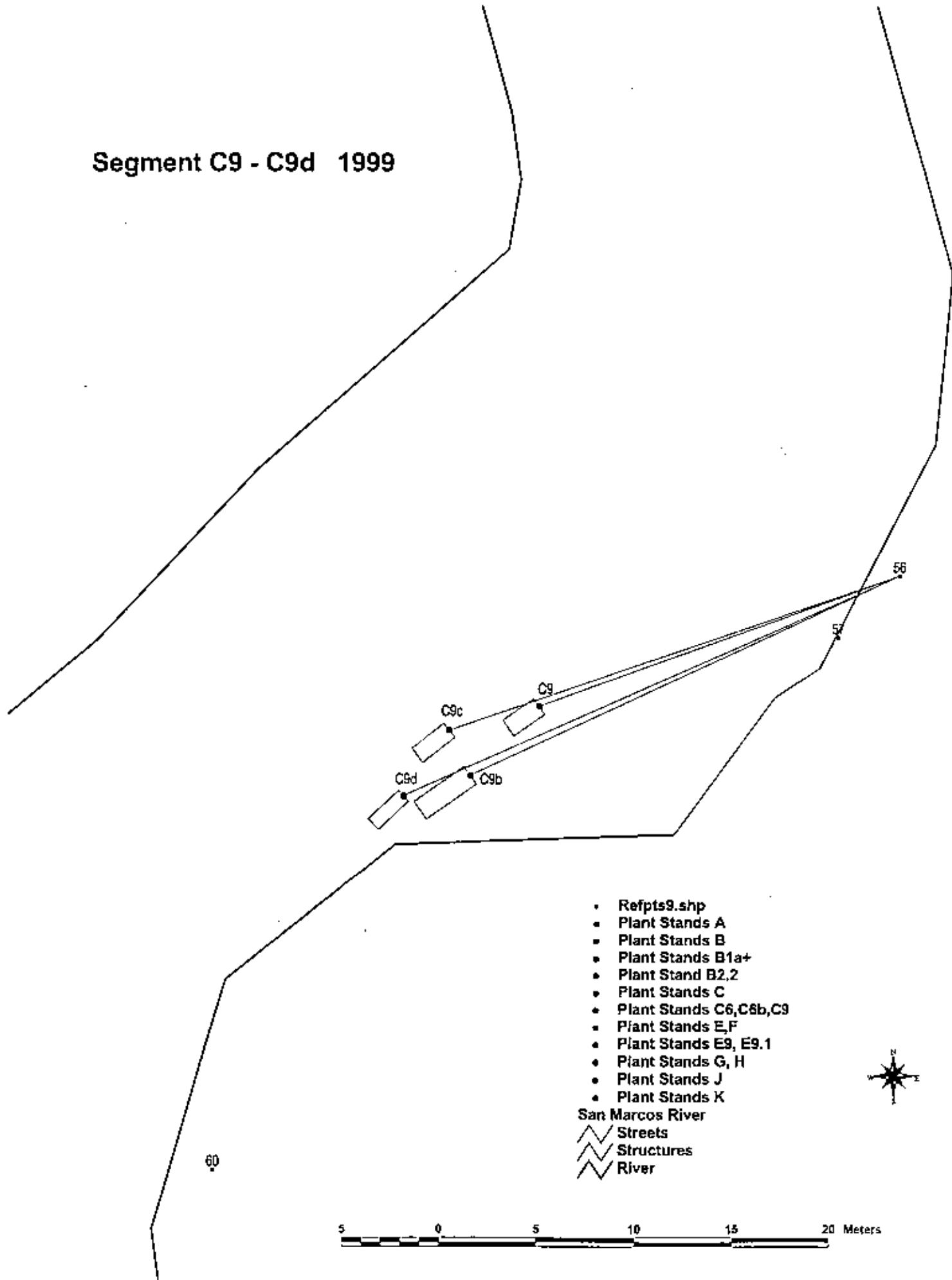
## Segment C5 - C5.5 1998



Segment C6 - C6d 1999



## Segment C9 - C9d 1999



Segment C1 - C2.1 2000

45

42

C2

C1

C2.1

43

44

- Refpts8.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands C
  - Plant Stands C1,C2.1,C5.5-C5.7,C9c,C9d
  - Plant Stands E,F
  - Plant Stands E6,E8-E11c
  - Plant Stands G, H
  - Plant Stands J
  - Plant Stands K

San Marcos River

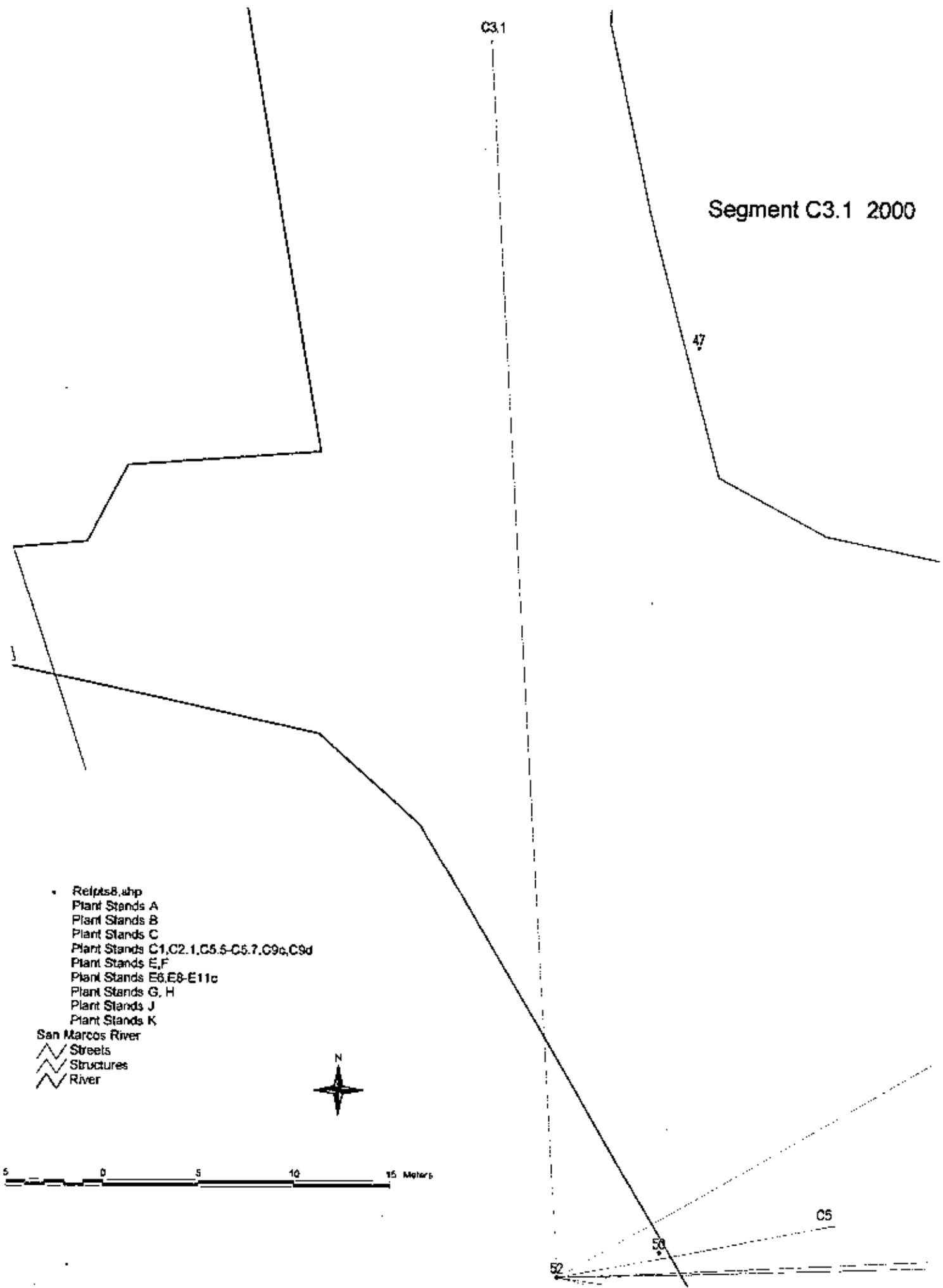
 Streets

 Structures

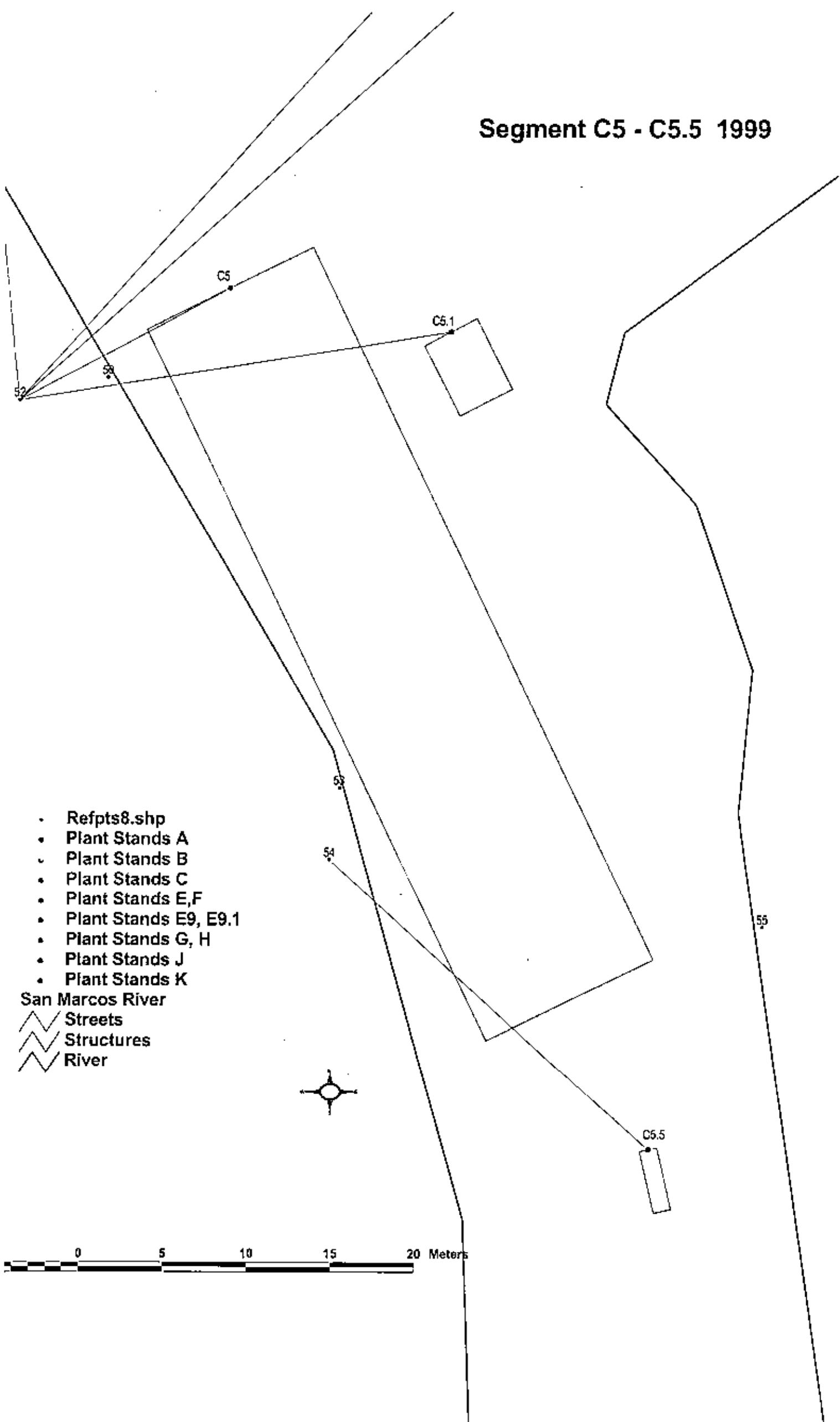
 River



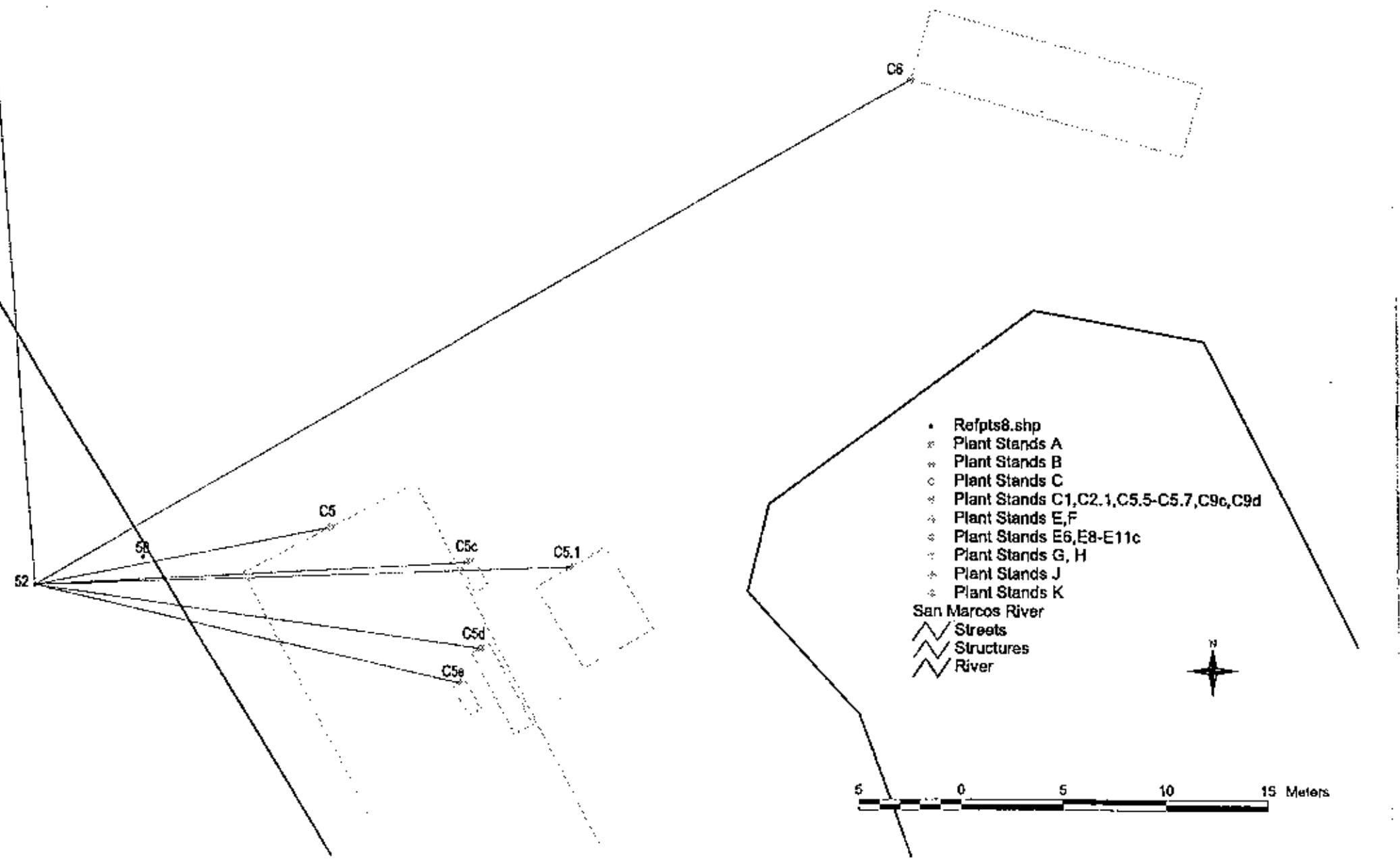
Segment C3.1 2000



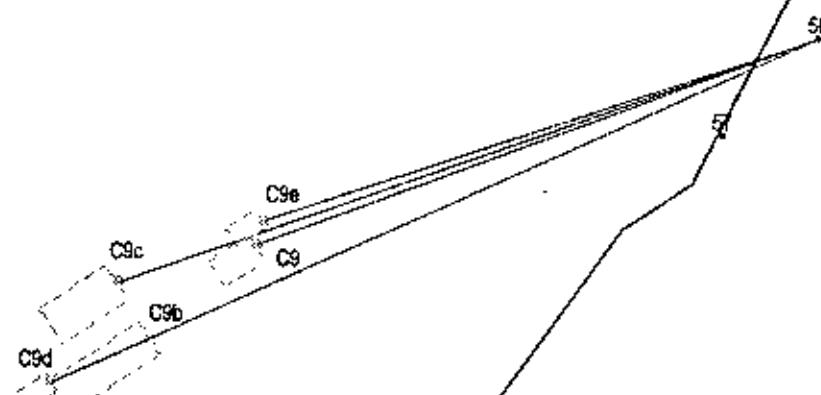
## Segment C5 - C5.5 1999



## Segment C6 2000



Segment C9 - C9e 2000



- Refpts9.shp
- :: Plant Stands A
- :: Plant Stands B
- \* Plant Stands C
- \* Plant Stands C9,C9e
- \* Plant Stands C1,C2.1,C5.5-C5.7,C9c,C9d
- \* Plant Stands E,F
- \* Plant Stands E6,E8-E11c
- Plant Stands G, H
- \* Plant Stands J
- \*\* Plant Stands K

San Marcos River

- ~~~~ Streets
- ~~~~ Structures
- ~~~~ River



5 0 5 10 15 20 Meters

Segment C5 - C5.7 2000

52 C5  
53 C5c  
C5.1

C5d  
C5e

53

54

C5.7

55

- Refpts8.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands C1,C2.1,C5.5-C5.7,C9c,C9d
- Plant Stands E,F
- Plant Stands E6,E8-E11c
- Plant Stands G, H
- Plant Stands J
- Plant Stands K

San Marcos River

-  Streets
-  Structures
-  River



5 0 5 10 15 Meters

C5.5

C5.6

# Segment C1 - C2.1 2001

- Refpts6.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E
- Plant Stands E8-E11e
- Plant Stands F
- Plant Stands G, H
- Plant Stands J
- Plant Stands K

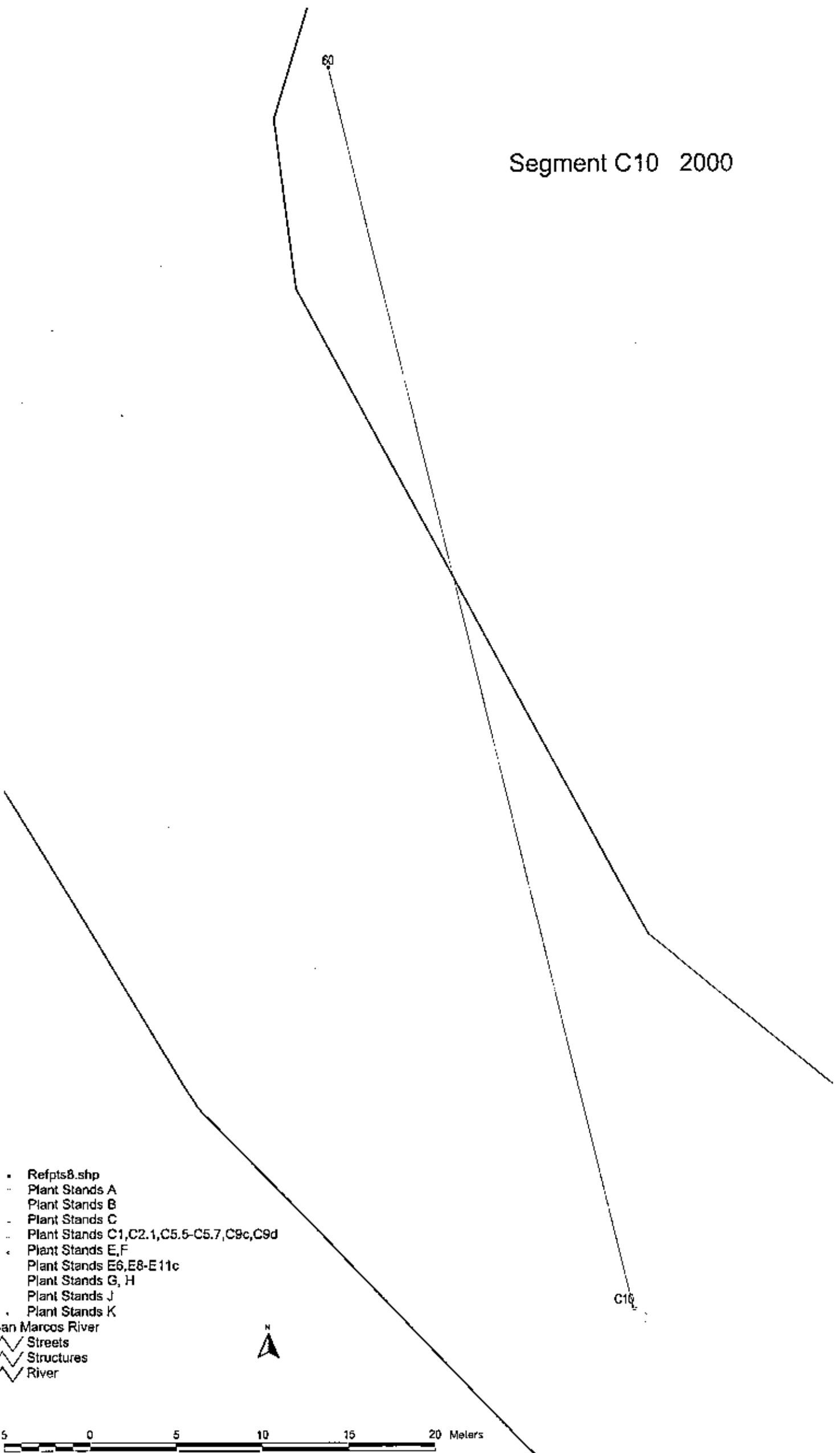
San Marcos River

- ~~ Streets
- ~~ Structures
- ~~ River

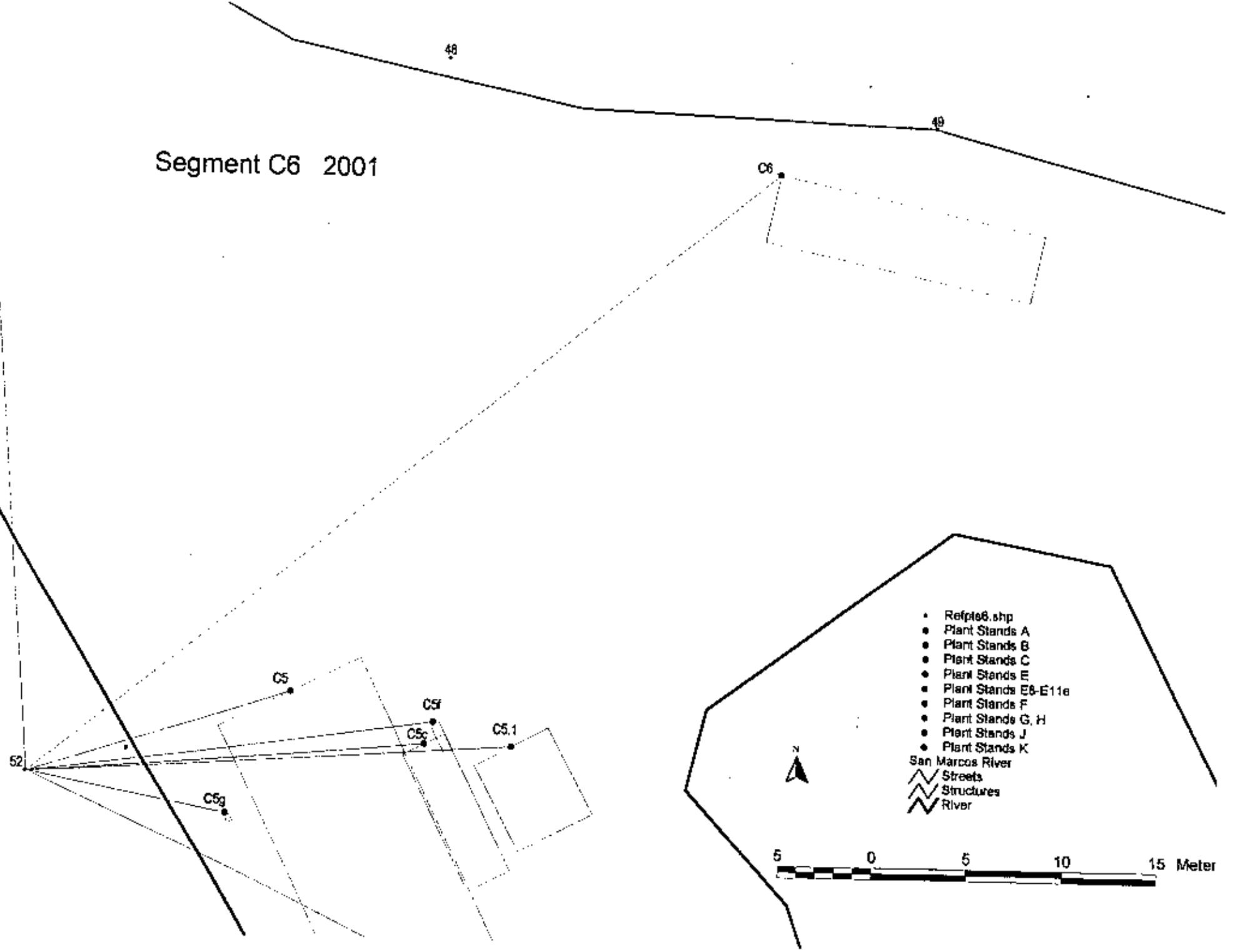


5 0 5 10 15 20 Meters

## Segment C10 2000



Segment C6 2001



Segment C9 - C9d 2001

C9c  
C9  
C9d  
C9e

56

57

60



- Refpte6.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E
- Plant Stands E8-E11e
- Plant Stands F
- Plant Stands G, H
- Plant Stands J
- Plant Stands K

San Marcos River

- ▲ Streets
- ▲ Structures
- ▲ River

5 0 5 10 15 20 Meters

## Segment C3.1 2001

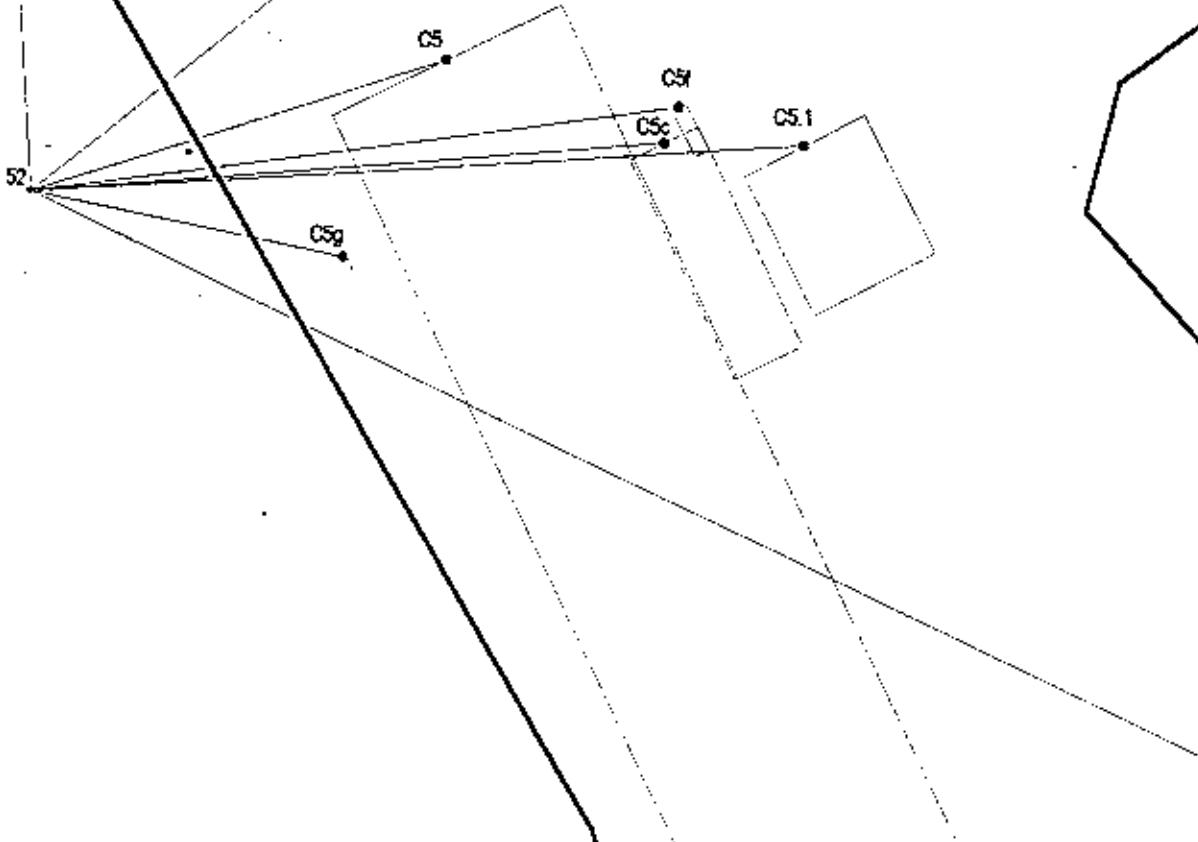
- Refpts6.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E
- Plant Stands E8-E11e
- Plant Stands F
- Plant Stands G, H
- Plant Stands J
- Plant Stands K

San Marcos River

- △ Streets
- △ Structures
- △ River



5 0 5 10 15 20 Meters



## Segment C5 - C5.6 2001

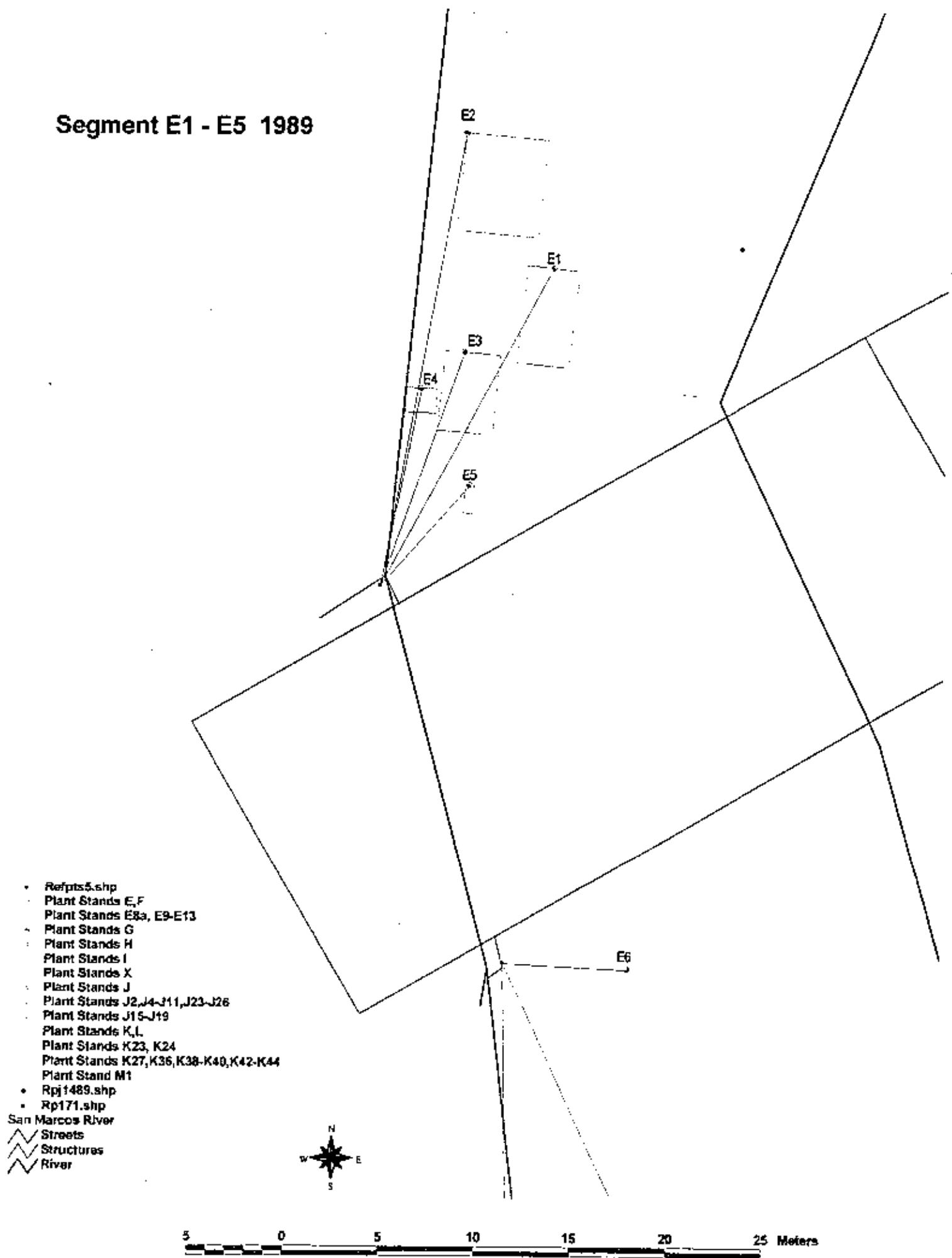
- Refpts6.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E
- Plant Stands E8-E11e
- Plant Stands F
- Plant Stands G, H
- Plant Stands J
- Plant Stands K

San Marcos River

- △ Streets
- △ Structures
- △ River



## Segment E1 - E5 1989



# Segment C10 2001

- Refpts6.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E
- Plant Stands E8-E11e
- Plant Stands F
- Plant Stands G, H
- Plant Stands J
- Plant Stands K

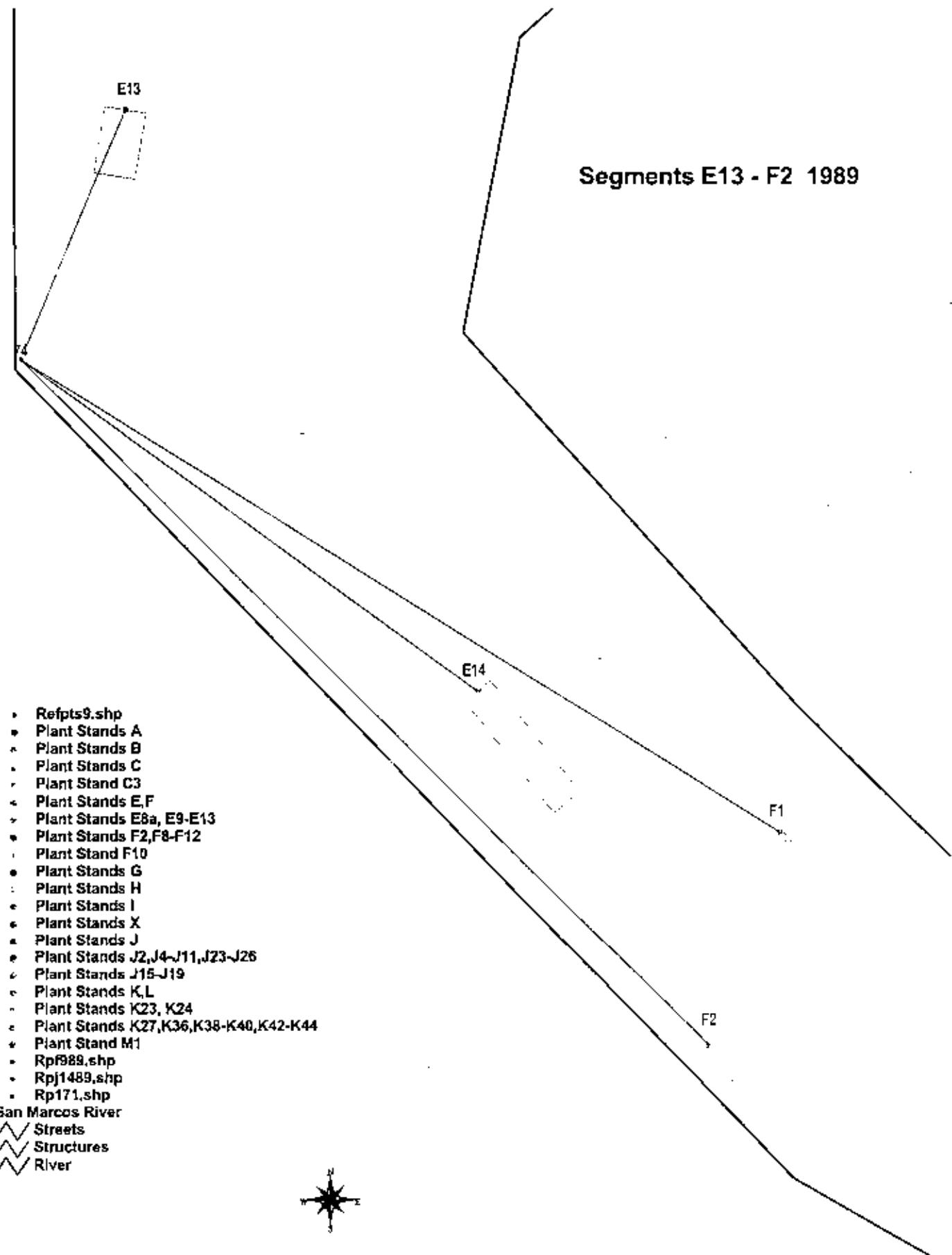
San Marcos River

- △ Streets
- △ Structures
- △ River



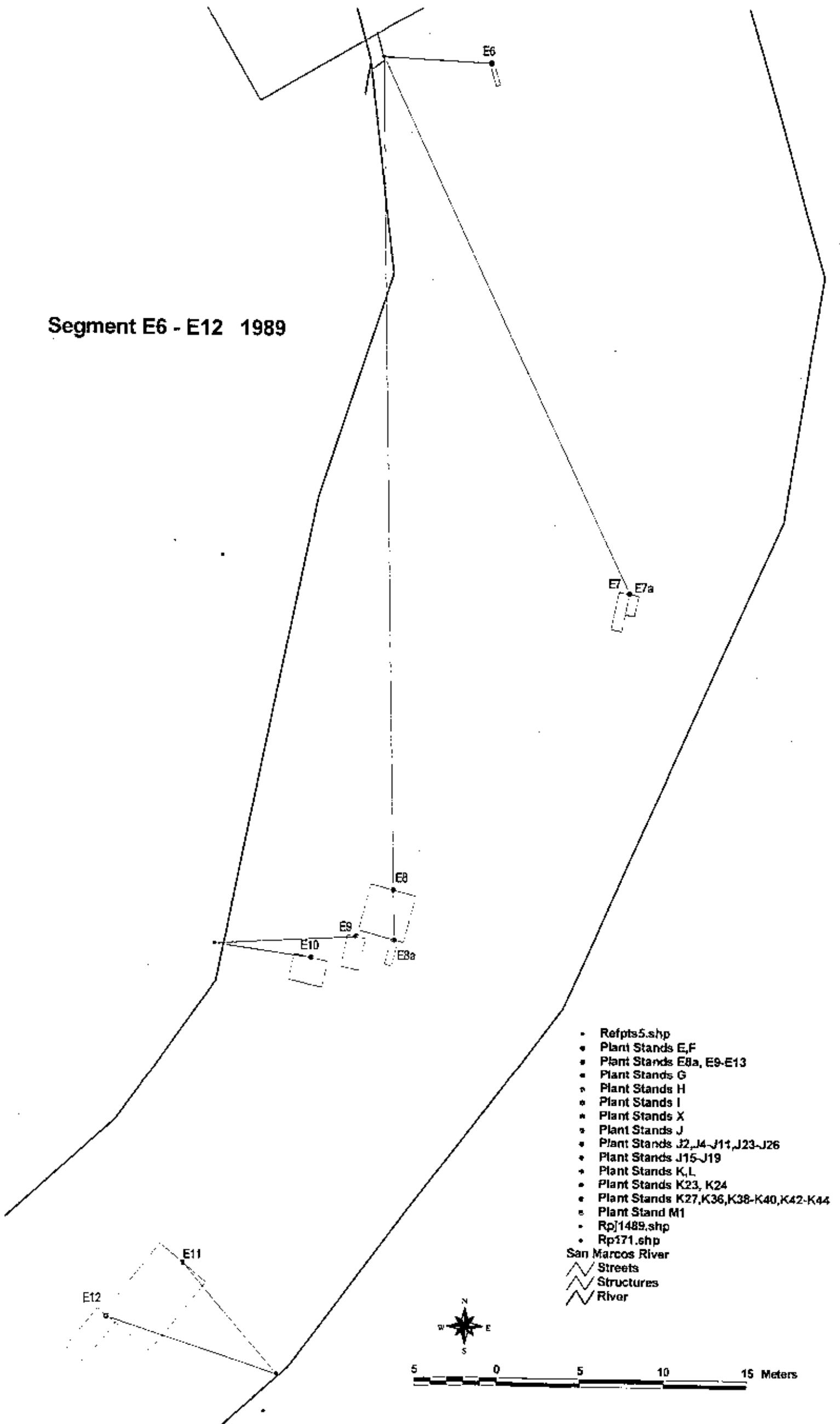
C10

## Segments E13 - F2 1989



5 0 5 10 15 20 25 30 Meters

## Segment E6 - E12 1989

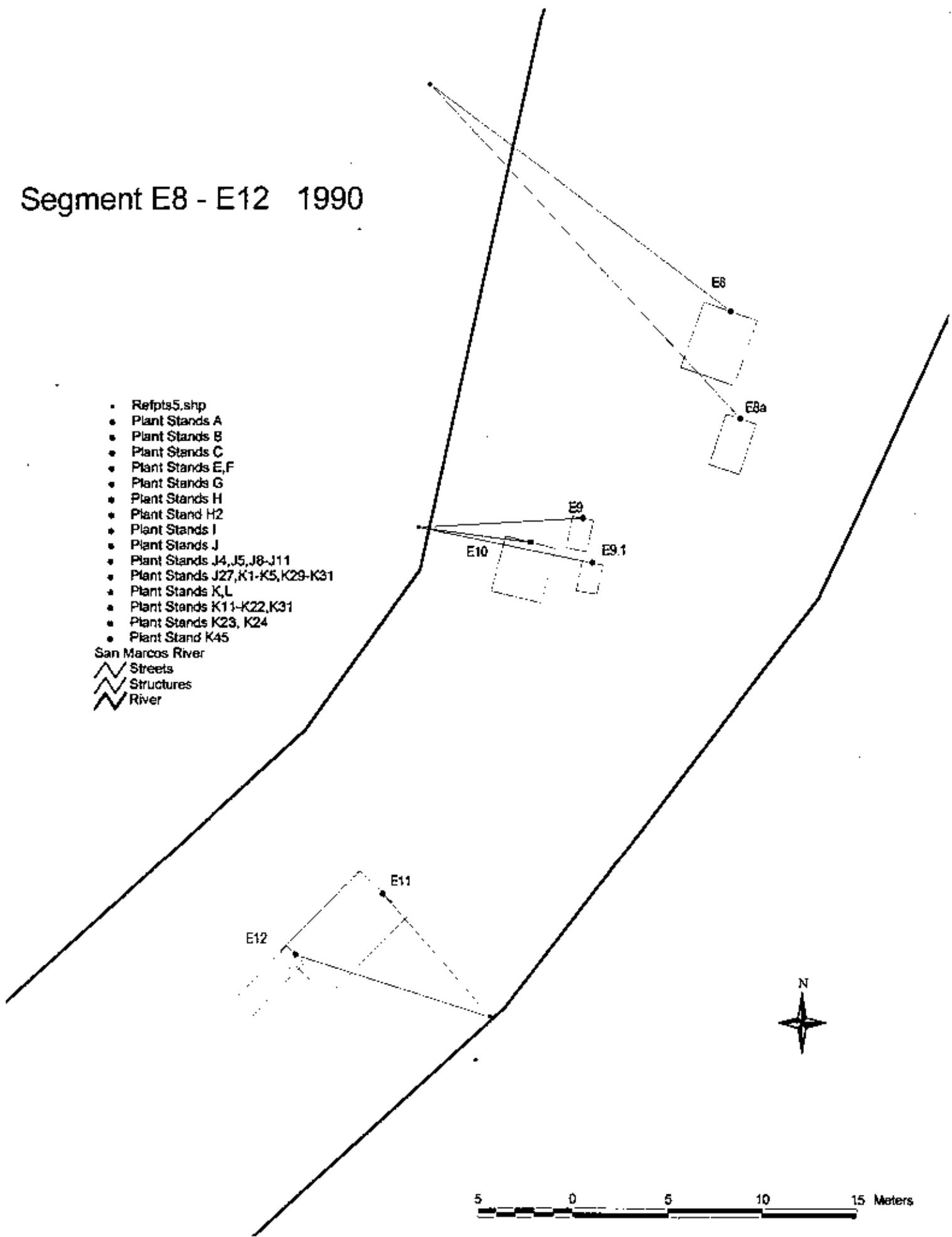


## Segment E8 - E12 1990

- Refpts5.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands G
- Plant Stands H
- Plant Stand H2
- Plant Stands I
- Plant Stands J
- Plant Stands J4,J5,J8-J11
- Plant Stands J27,K1-K5,K29-K31
- Plant Stands K,L
- Plant Stands K11-K22,K31
- Plant Stands K23, K24
- Plant Stand K45

San Marcos River

- ✓ Streets
- ✓ Structures
- ✓ River



Segment E13 - F2 1990

73

E13

74

E14

75

F2

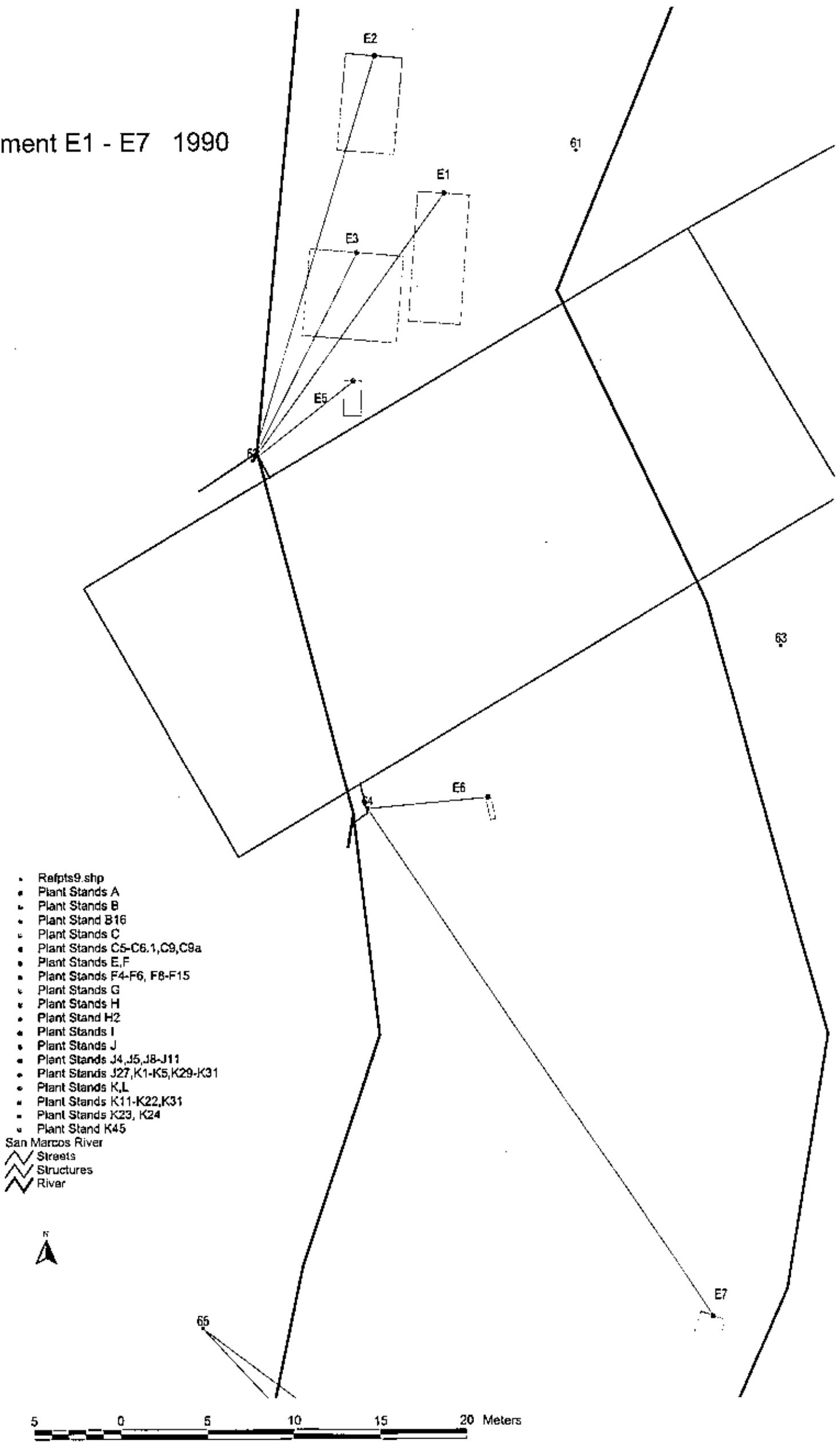
- Rafpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stand B18
- Plant Stands C
- Plant Stands C5-C6,1,C9,C9a
- Plant Stands E,F
- Plant Stands F4-F6, F8-F15
- Plant Stands G
- Plant Stands H
- Plant Stand H2
- Plant Stands I
- Plant Stands J
- Plant Stands J4,J5,J8-J11
- Plant Stands J27,K1-K5,K29-K31
- Plant Stands K,L
- Plant Stands K11-K22,K31
- Plant Stands K23, K24
- Plant Stand K45

San Marcos River  
Streets  
Structures  
River

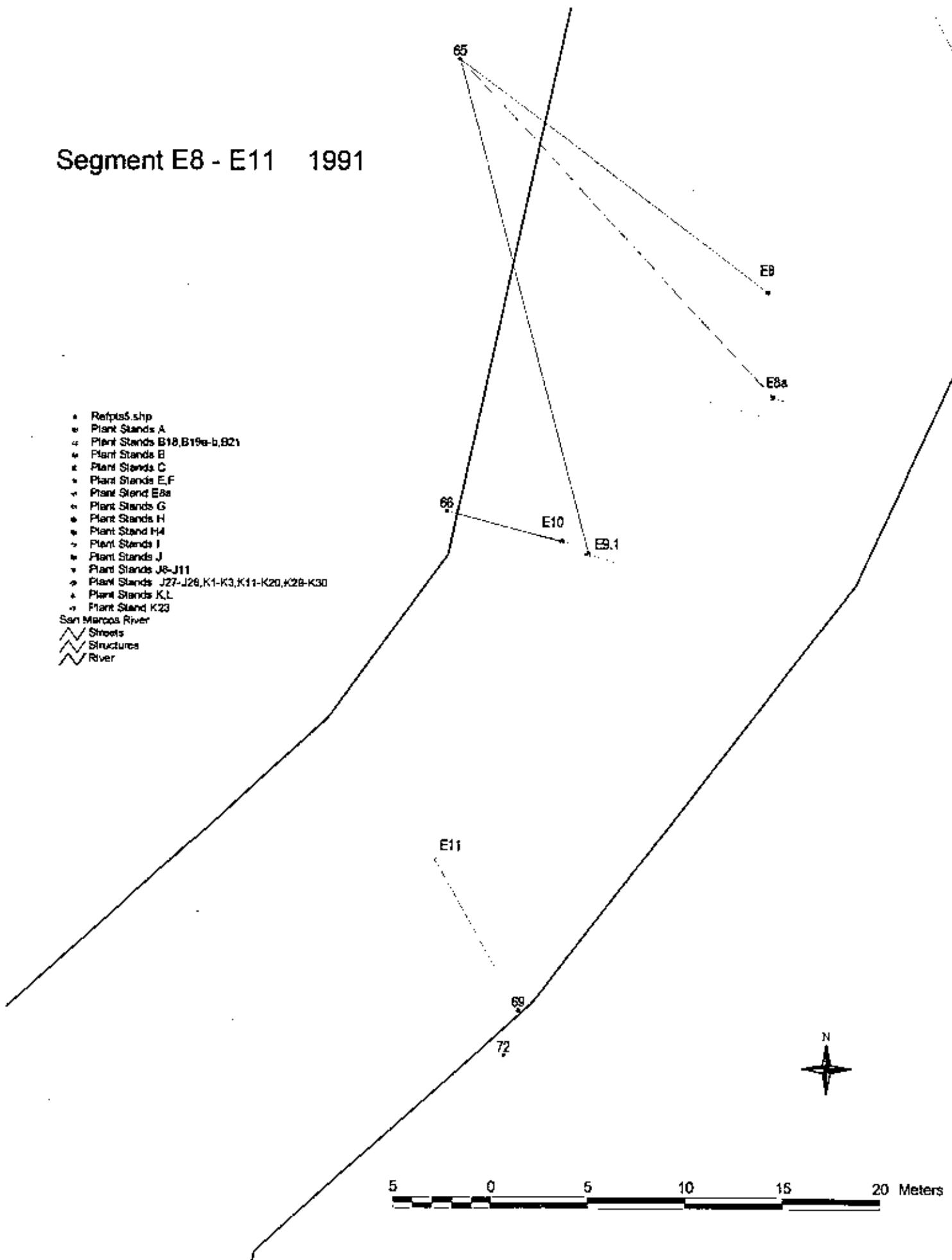


0 D 5 10 15 20 Meters

# Segment E1 - E7 1990



## Segment E8 - E11 1991



Segment E13 - F2 1991

73

E13

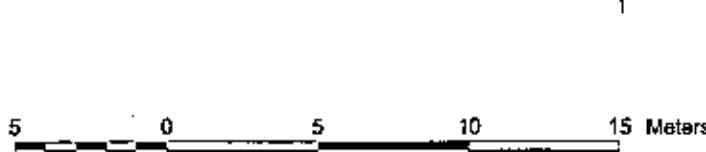
E14

F2

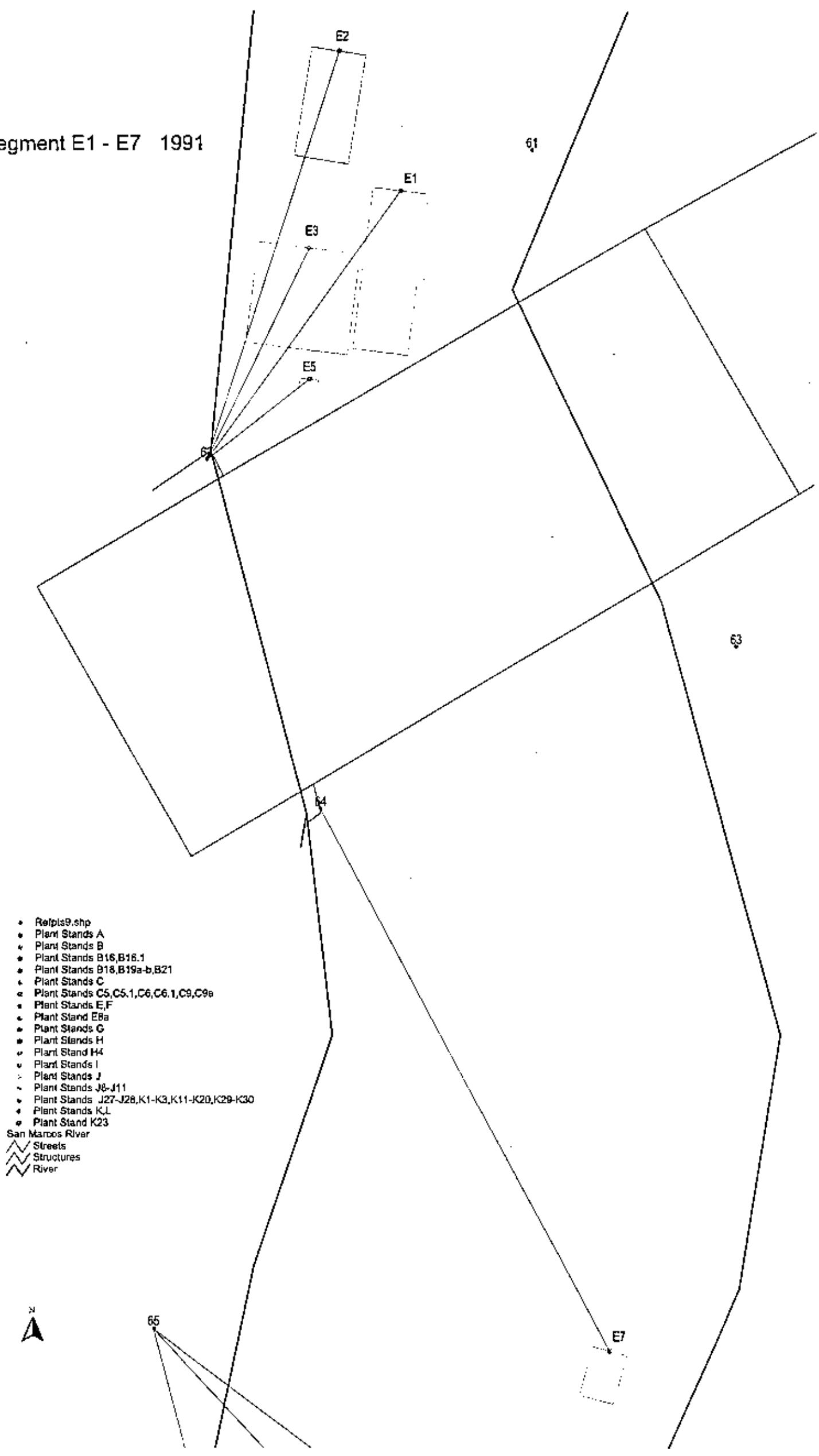
- Refpts9.shp
- Plant Stands A
- Plant Stands B
- ◆ Plant Stands B16,B16.1
- ▷ Plant Stands B18,B19a-b,B21
- △ Plant Stands C
- ▲ Plant Stands C5,C5.1,C8,C8.1,C9,C9a
- Plant Stands E,F
- Plant Stand E9a
- ◆ Plant Stands G
- Plant Stands H
- Plant Stand H4
- Plant Stands I
- ◆ Plant Stands J
- Plant Stands J8-J11
- ▲ Plant Stands J27-J28,K1-K3,K11-K20,K29-K30
- Plant Stands K,L
- Plant Stand K23

San Marcos River

- ~~~~ Streets
- ~~~~ Structures
- ~~~~ River



Segment E1 - E7 1991



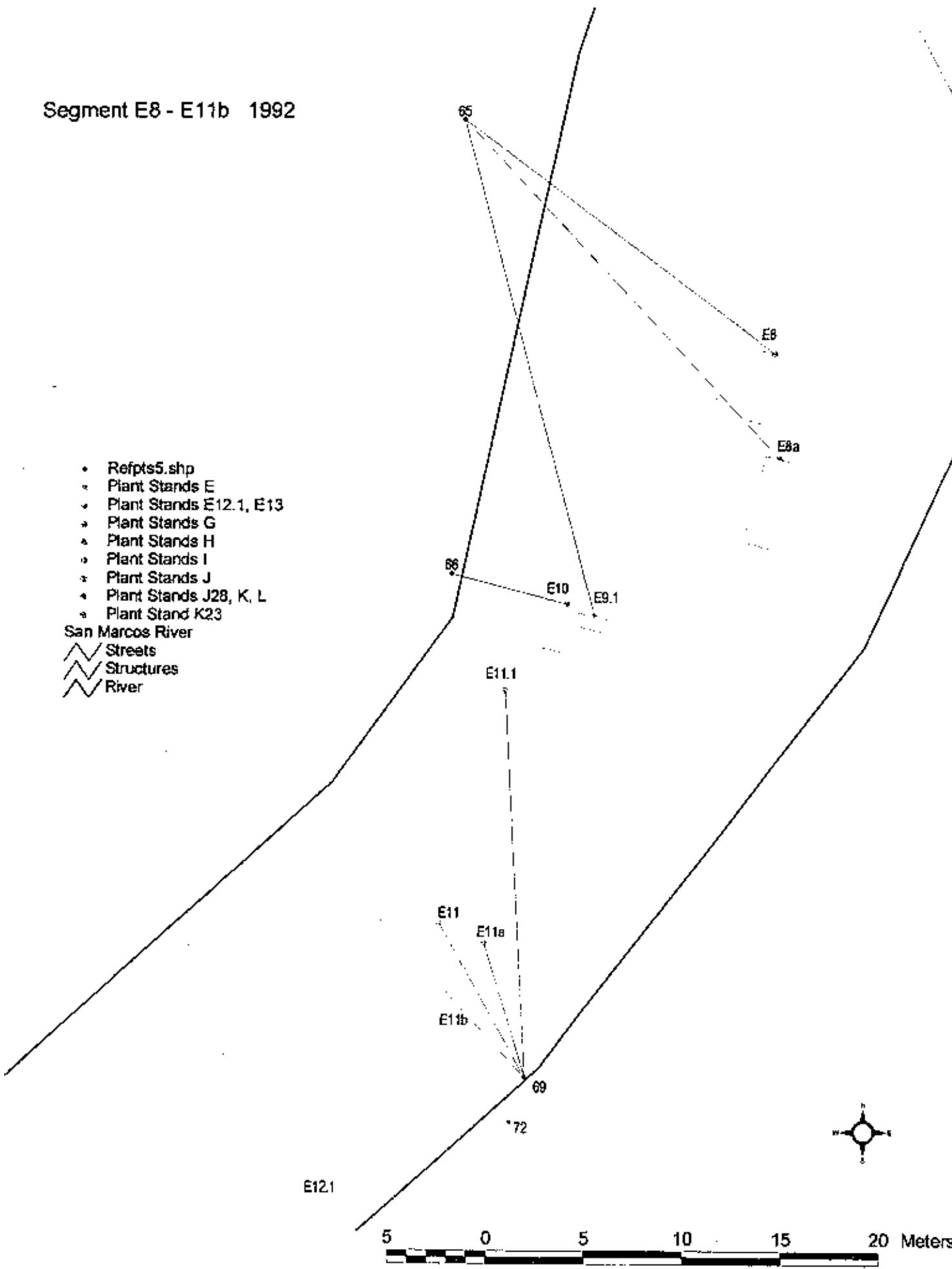
5 0 5 10 15 Meters

Segment E8 - E11b 1992

- Refpts5.shp
- ▷ Plant Stands E
- ▷ Plant Stands E12.1, E13
- ▷ Plant Stands G
- ▷ Plant Stands H
- ▷ Plant Stands I
- ▷ Plant Stands J
- ▷ Plant Stands J28, K, L
- ▷ Plant Stand K23

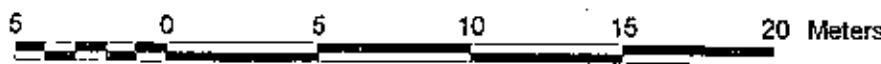
San Marcos River

- ~~~~ Streets
- ~~~~ Structures
- ~~~~ River



## Segment E12.1 - E13 1992

- Refpts5.shp
- Plant Stands E
- Plant Stands E12.1, E13
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands J
- Plant Stands J28, K, L
- Plant Stand K23
- San Marcos River
- Streets
- Structures
- River



## Segment E1 - E5 1993

- Relpts5.shp
- Plant Stands A
- Plant Stands B
- Plant Stand B15c
- Plant Stands C
- Plant Stands E,F
- Plant Stands E1-E5
- Plant Stands - G,H1
- Plant Stands H2-H3
- Plant Stands I
- Plant Stands J
- Plant Stands J9-J11
- Plant Stands K,L
- Plant Stands K11-K20,K29-K30
- Plant Stands K37-K44

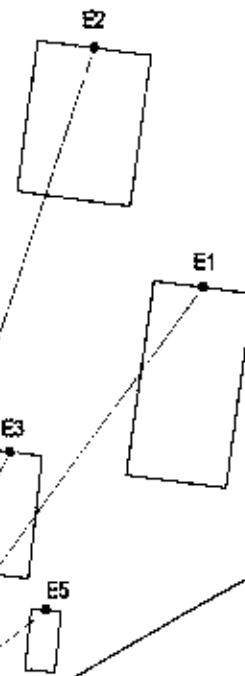
San Marcos River

- ~~ Streets
- ~~ Structures
- ~~ River



5 0 5 10 15 Meters

E6.2 P1



Segments E2 - E7 1992

- Refpts5.shp
- Plant Stands E
- Plant Stands E12.1, E13
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands J
- Plant Stands J28, K, L
- Plant Stand K23

San Marcos River

- Streets
- Structures
- River



5 0 5 10 15 Meters

65

E7

E2

E1

E3

E5

61

83

64

62

73

E12.1

E13

Segment E12.1 - F2 1993

E14

F2

- Plant Stands F2, F11-F15
- Refpts8.shp
- Plant Stands A
- Plant Stands B
- Plant Stand B15e
- Plant Stands C
- Plant Stands E,F
- Plant Stands E1-E5
- Plant Stands - G,H1
- Plant Stands H2-H3
- Plant Stands I
- Plant Stands J
- Plant Stands J9-J11
- Plant Stands K,L
- Plant Stands K11-K20,K29-K30
- Plant Stands K37-K44

San Marcos River

-  Streets
-  Structures
-  River



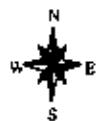
5 0 5 10 15 Meters

## Segment E1 - E5 1994

- Refpts5.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stand E6.3
- Plant Stands G,H0a
- Plant Stands H2-H2b
- Plant Stands I,J
- Plant Stands J9-J11
- Plant Stands K,L
- Plant Stands K11.2-K20,K29-K30,K37-K45

San Marcos River

- Streets
- Structures
- River



5 0 5 10 15 20 Meters

E6.3

E6.2

E2

E1

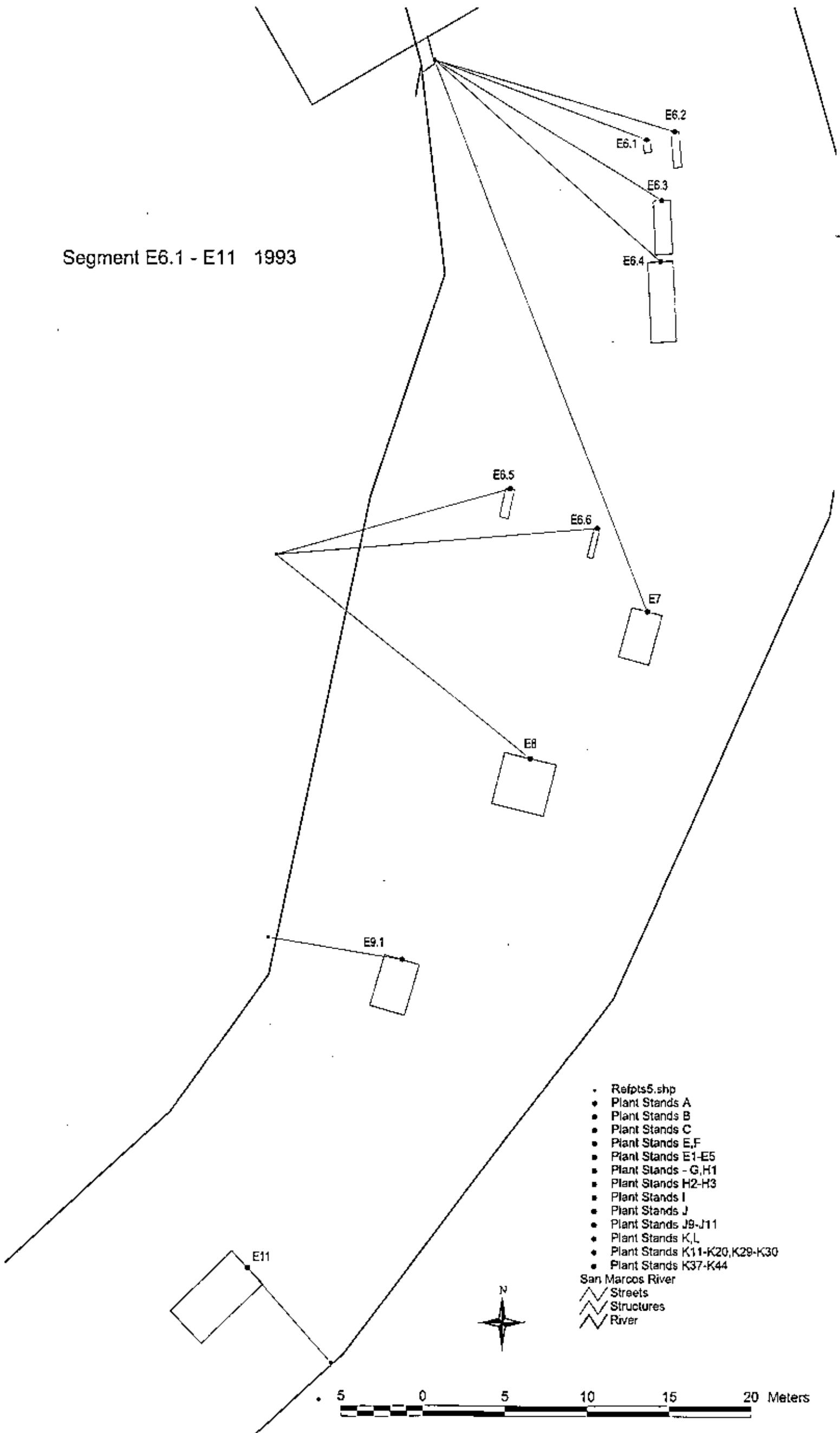
E1a

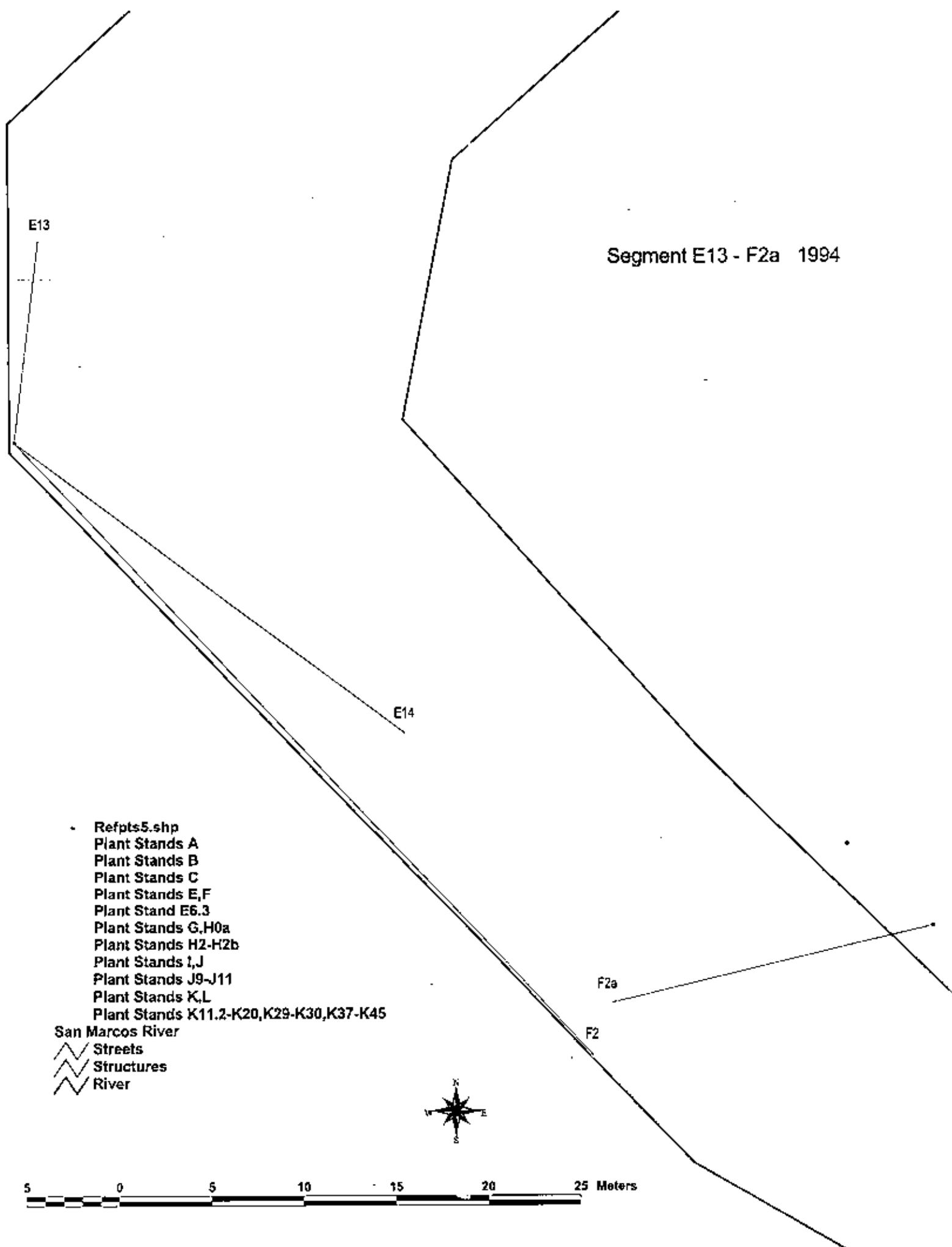
E1b

E3

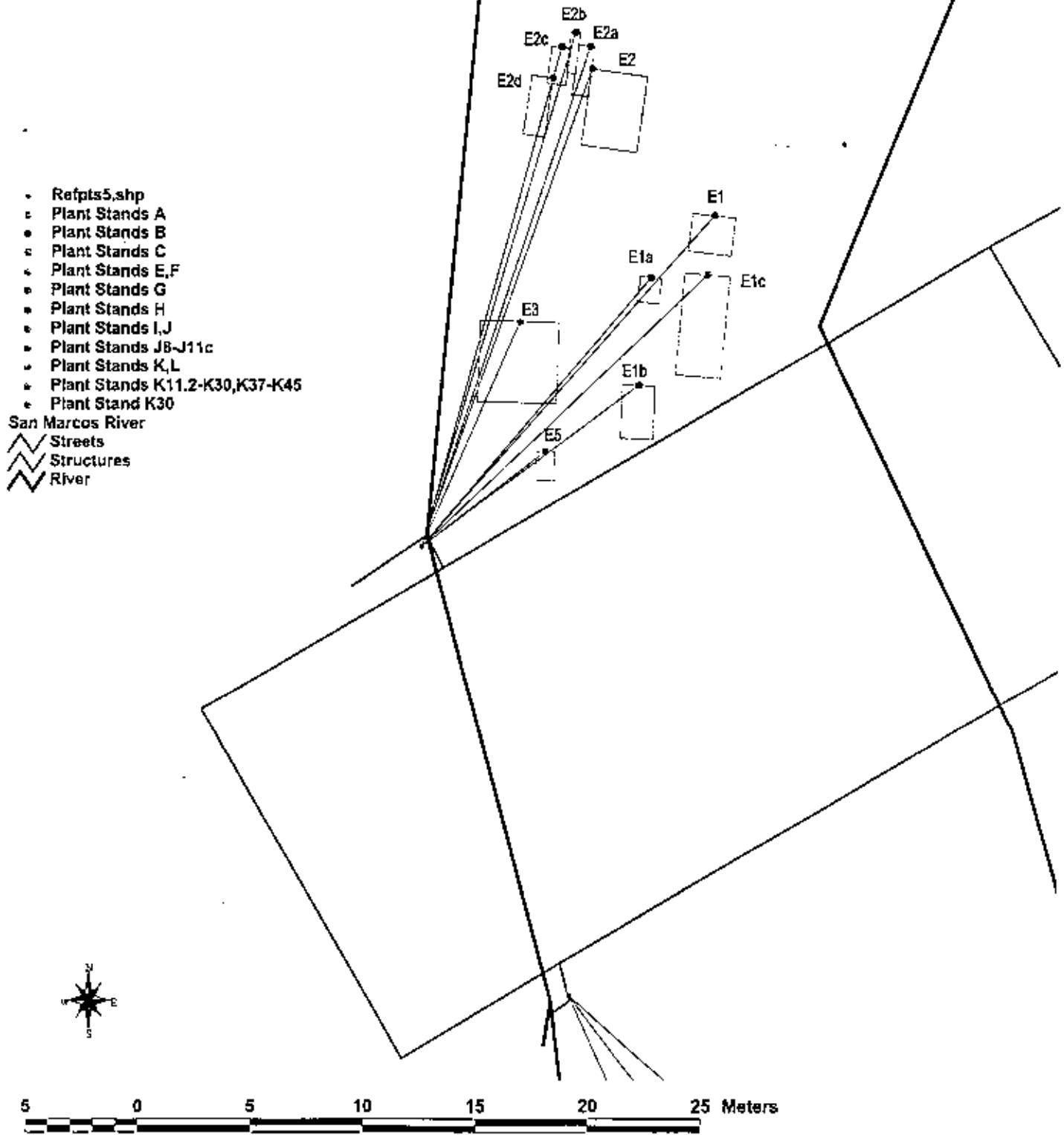
E5

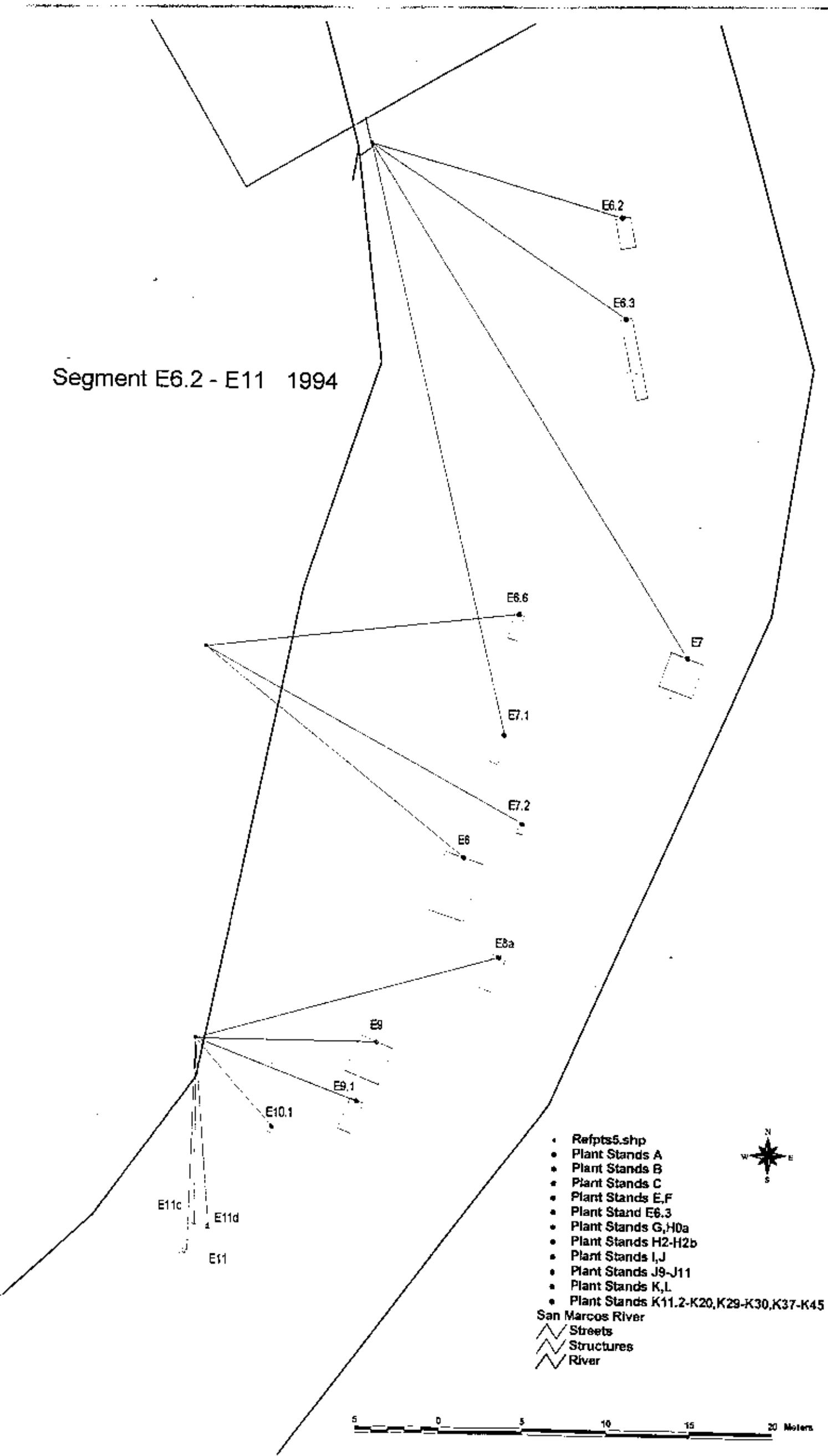
Segment E6.1 - E11 1993





## Segment E1 - E5 1995





Segment E14 - F2.2 1995

- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands B3j+
- Plant Stands C
- Plant Stands C5,5, C9
- Plant Stands E,F
- Plant Stands F4.4,F8,F8d,F11-F15
- Plant Stands G
- Plant Stands H
- Plant Stands I,J
- Plant Stands J8-J11c
- Plant Stands K,L
- Plant Stands K11.2-K30,K37-K45
- Plant Stand K30

San Marcos River

- ✓ Streets
- ✓ Structures
- ✓ River

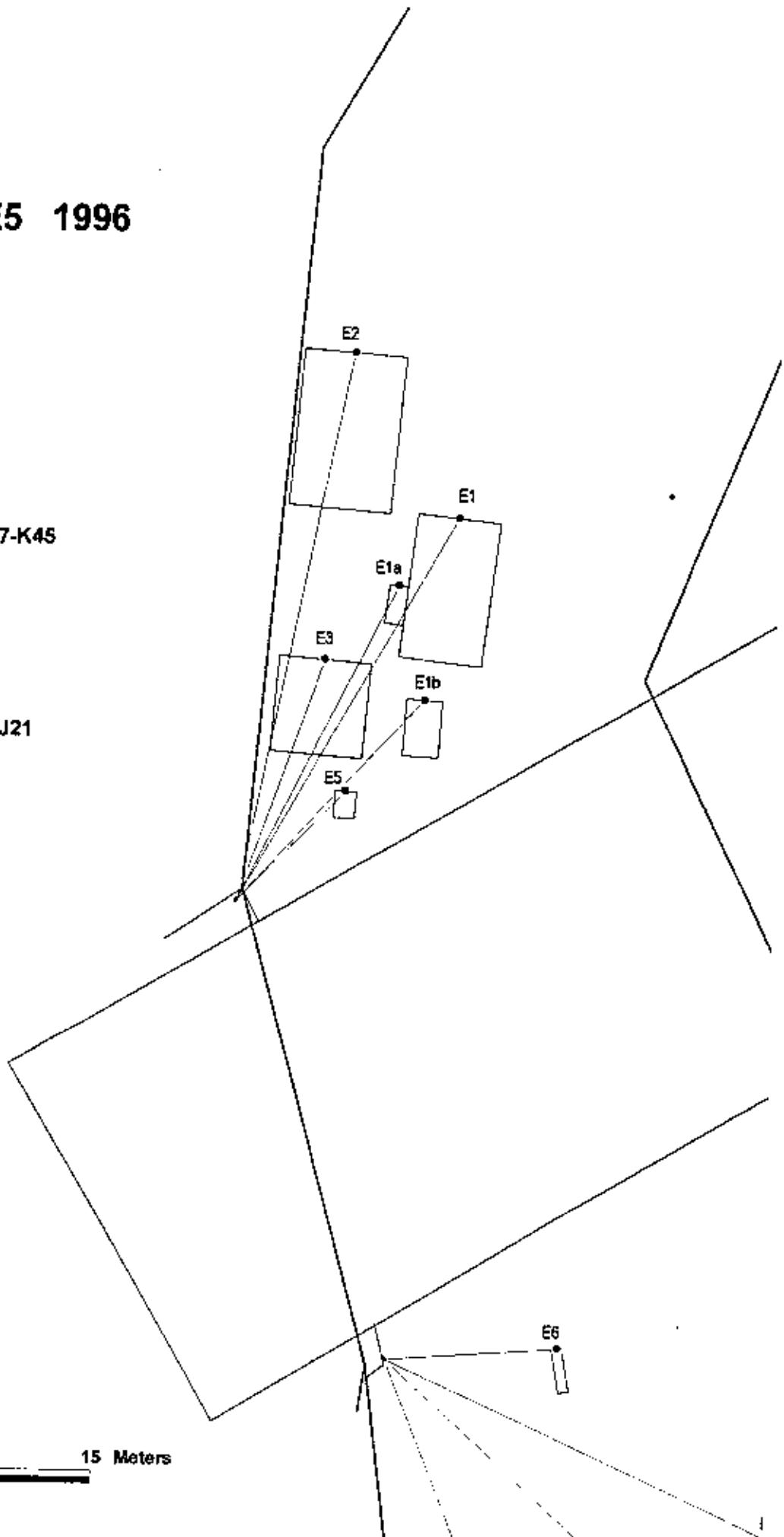


## Segment E1 - E5 1996

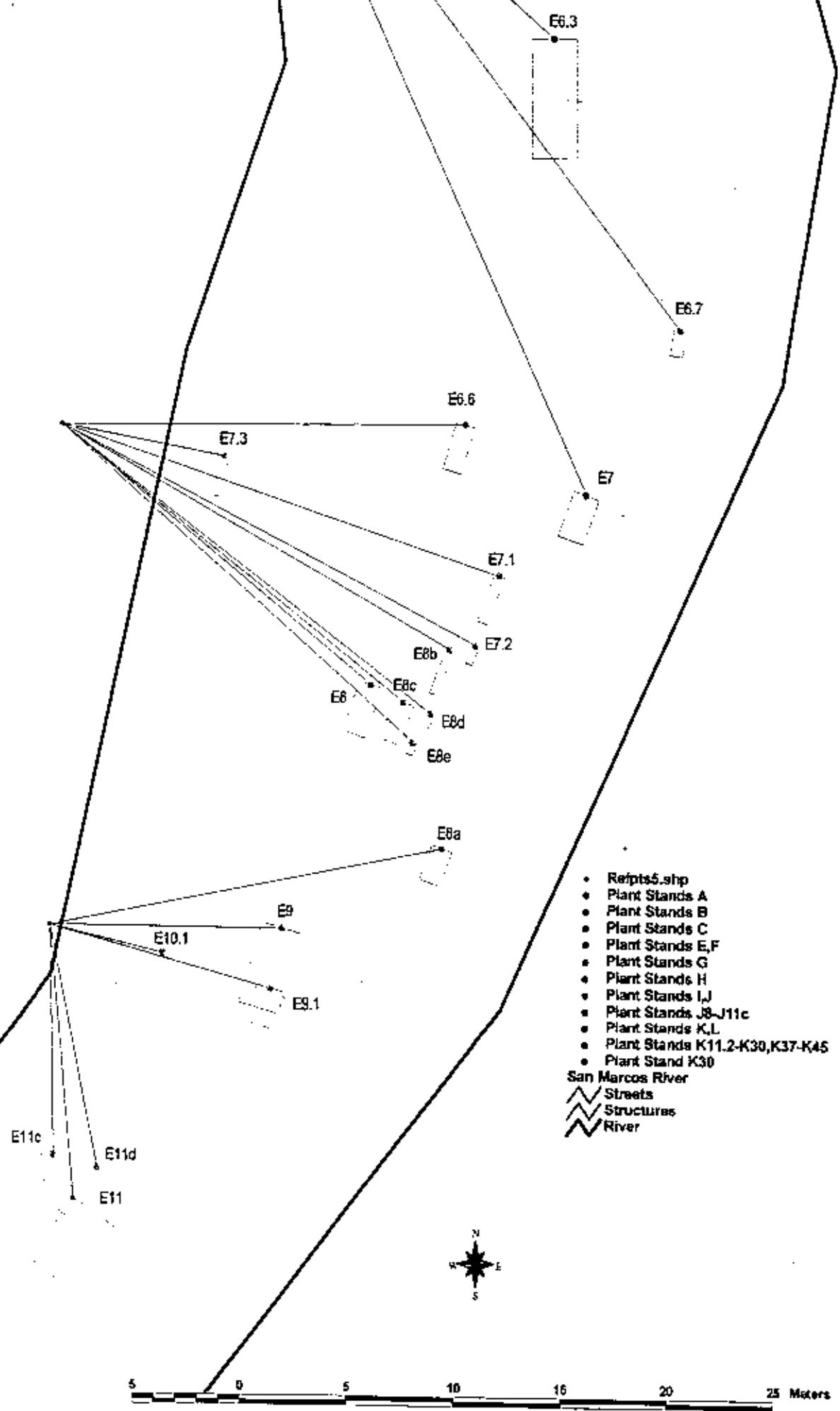
- Plant Stands K14-K20, K29, K37-K45
- Plant Stand K10.3
- Refpts5.shp
- Plant Stands B
- Plant Stands C
- Plant Stands G,H
- Plant Stands E,F
- Plant Stands I,J
- Plant Stands J8-J11c,J13,J13a,J21
- Plant Stands K,L

San Marcos River

- Streets
- Structures
- River



**Segment E6.3 - E11d 1995**



Segment E14, F2 1996

- Relpts0.shp
- Plant Stands A
- Plant Stands B
- Plant Stands B3,4+
- Plant Stands B11,6,8t1,9,B11,25
- Plant Stand B10,3
- Plant Stands C
- Plant Stands C5b,C5,5,C9
- Plant Stands G,H
- Plant Stands E,F
- Plant Stands F11-F15
- Plant Stands J,M
- Plant Stands J8-J11c,J12,J13a,J21
- Plant Stand K1,L
- Plant Stand K10,3
- Plant Stands K14-K20, K29, K37-K45

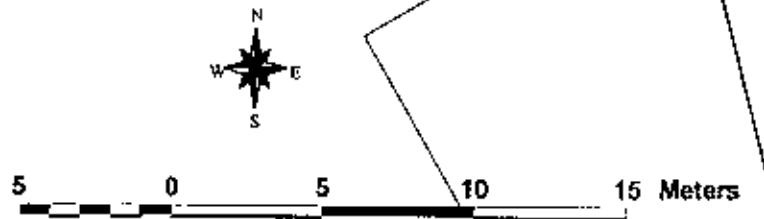
San Marcos River

- Streets
- Structures
- River

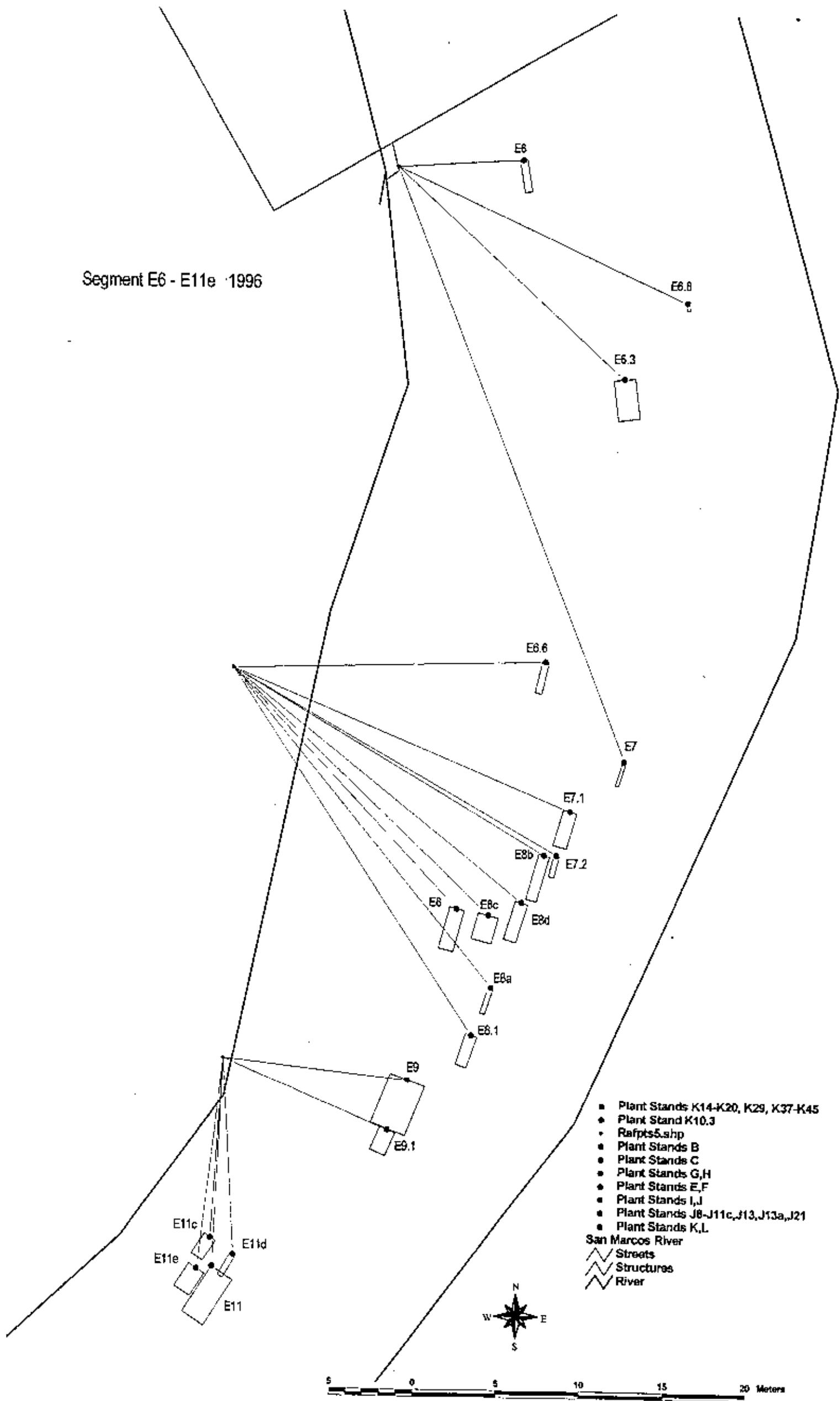


## Segment E0 - E5 1997

- Repts95.shp
  - Plant Stands K18,1-K20, K37-K45
  - C:\twr\wr97\rp56\_87.dbf
  - SegSel\_p97.dbf
  - Plant Stands A
  - Segment B
  - Plant Stands C
  - Plant Stands E,F
  - Plant Stands E0, E14
  - Plant Stands G,H
  - Plant Stands G2-G3
  - Plant Stands J
  - Plant Stands J1a,J7,2-J11
  - Plant Stands K,L
- San Marcos River
- ✓ Streets
  - ✓ Structures
  - ✓ River



Segment E6 - E11e 1996



## Segment E14 1997

- Refpts9.shp
- Plant Stands A
- Segment B
- Plant Stands B1.1+
- Plant Stands C
- Plant Stands C2a,C5b,C5.5,C7,C9-C9d
- Plant Stands E,F
- Plant Stands E0, E14
- Plant Stands F3-F5.1,F7,F11-F15
- Plant Stands G,H
- Plant Stands G2-G3
- Plant Stands J
- Plant Stands J1a,J7.2-J11
- Plant Stands K,L
- Plant Stands K18.1-K20, K37-K45

San Marcos River

- △ Streets
- △ Structures
- △ River

E14



F2

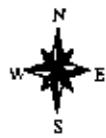
F2.2

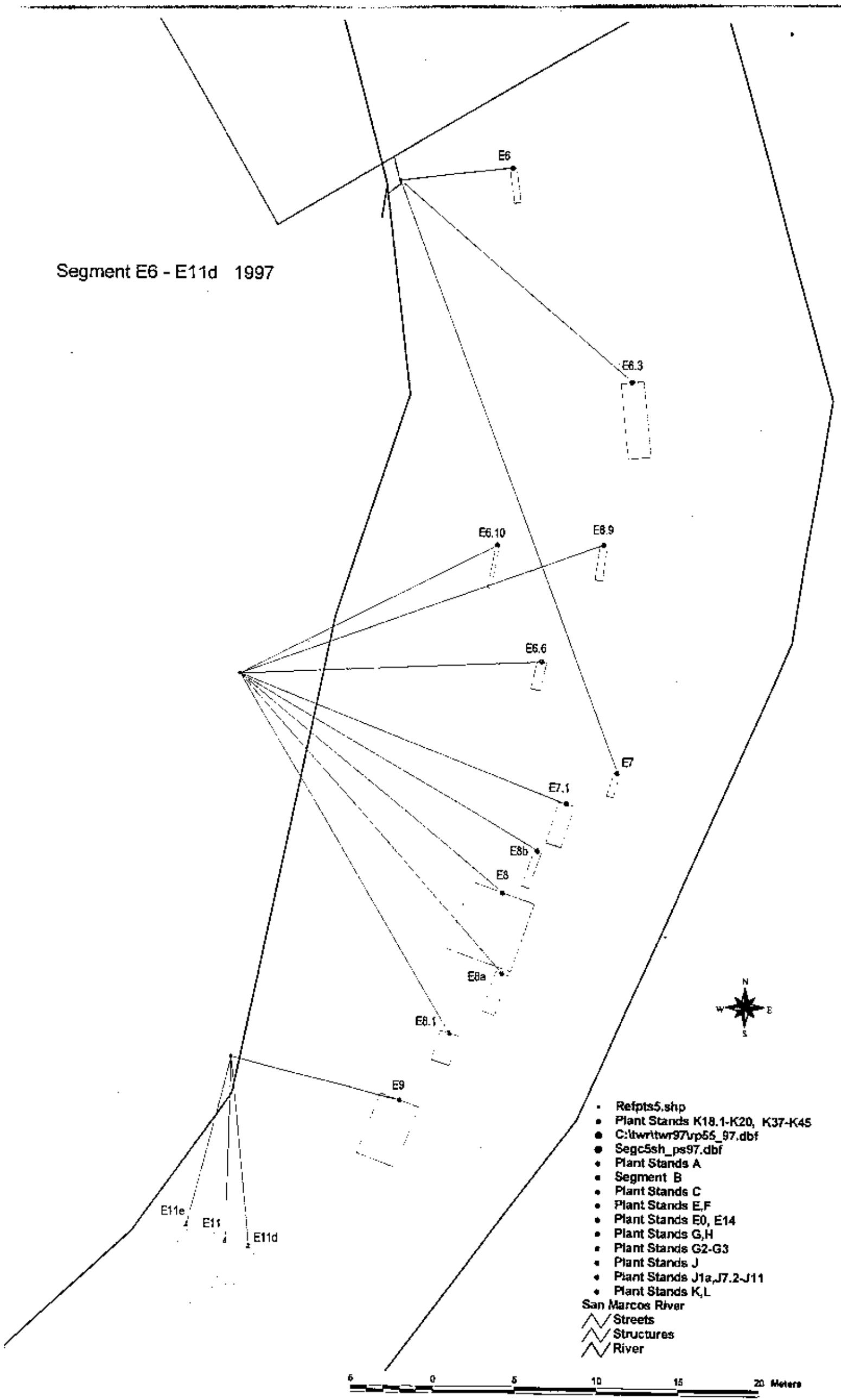
## Segment E1 - E5 1998

- Refpts5.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stand E9.1
- Plant Stands G
- Plant Stands H
- Plant Stands H (S data)
- Plant Stands J
- Plant Stands J7.2-J11
- Plant Stands K
- Plant Stands K18.1-K20.1, K37-K45

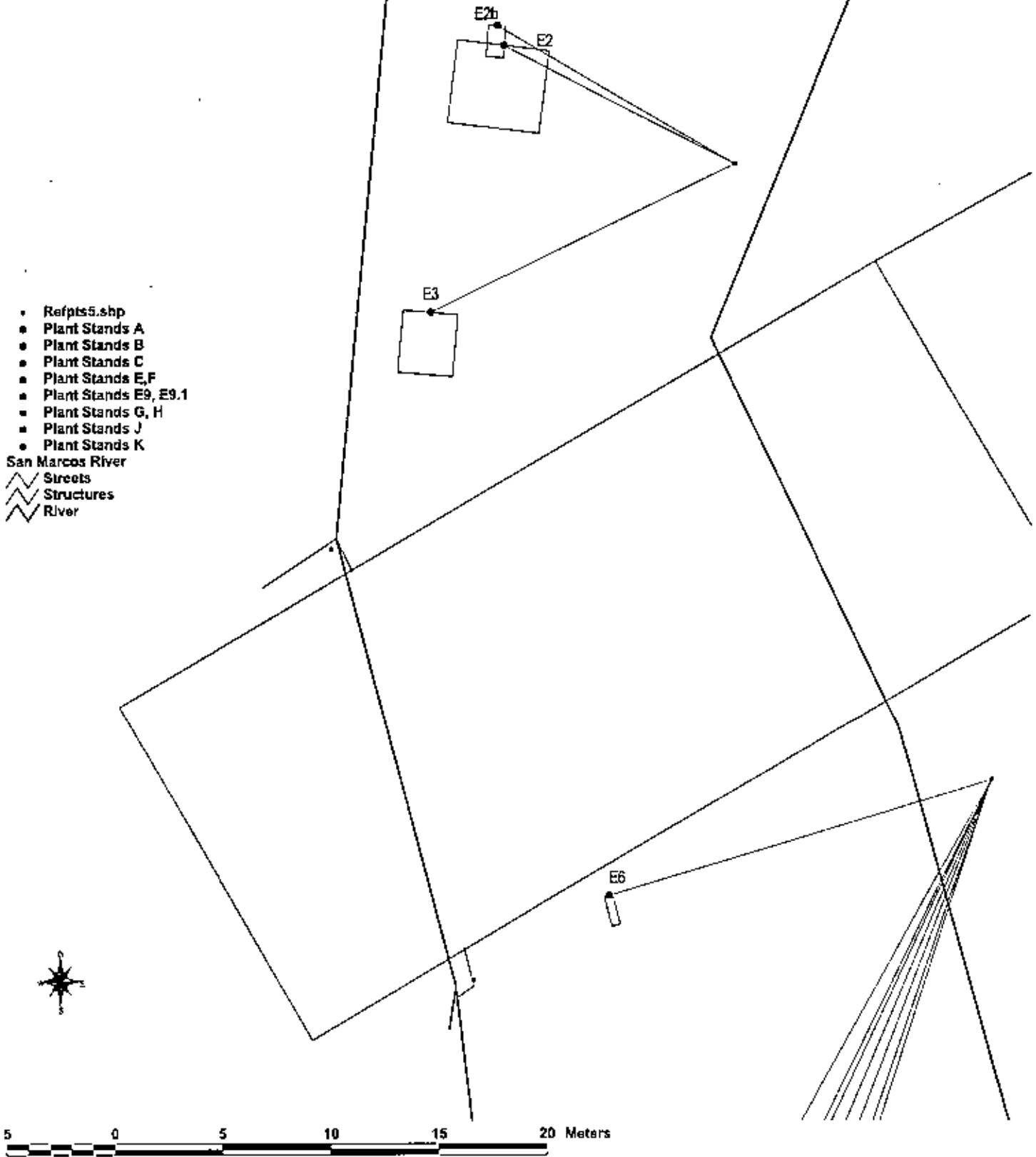
San Marcos River

- Streets
- Structures
- River





## Segment E2 - E3 1999



**Segment E6 - E9.1 1998**

E6

E6.3

E6.9

E6.6

E7.4

E7.1

E8

E8c

E8b

E8d

E8f

E8a

E8.1

E9.1

Refpts5.shp

Plant Stands A

Plant Stands B

Plant Stands C

Plant Stands E,F

Plant Stand E9.1

Plant Stands G

Plant Stands H

Plant Stands J

Plant Stands J7.2-J11

Plant Stands K

Plant Stands K18.1-K20.1, K37-K45

San Marcos River

Streets

Structures

River



5 0 5 10 15 20 25 Meters

E11c E11d

E11

69

72

### Segment E11 - E14.1 1998

Refpts9.shp

Plant Stands A

Plant Stand A0.20

Plant Stands B

Plant Stands C

Plant Stands E,F

Plant Stand E9.1

Plant Stands F7,F11-F16

Plant Stands G

Plant Stands H

Plant Stands J

Plant Stands J7.2-J11

Plant Stands K

Plant Stands K18.1-K20.1, K37-K45

San Marcos River

Streets

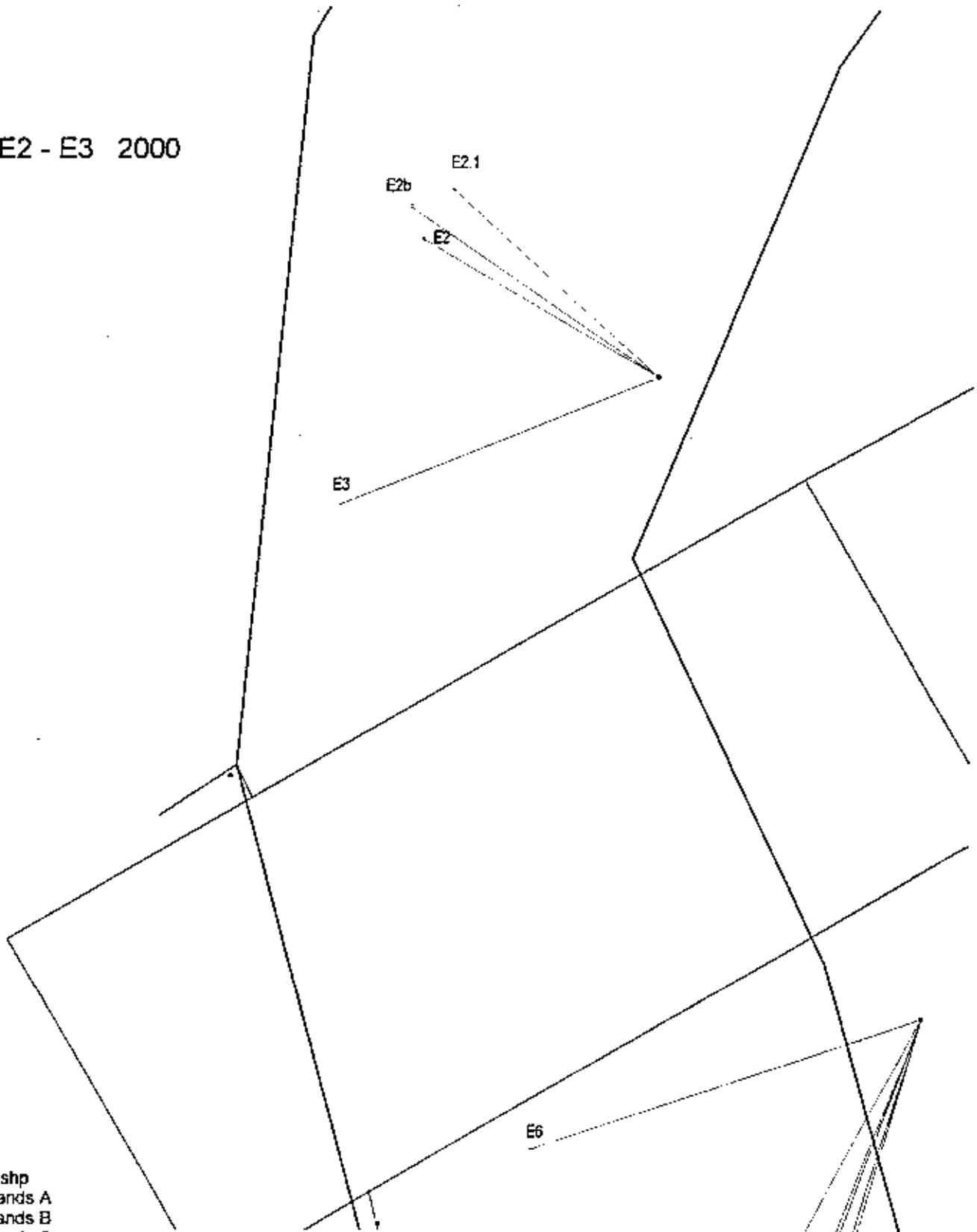
Structures

River



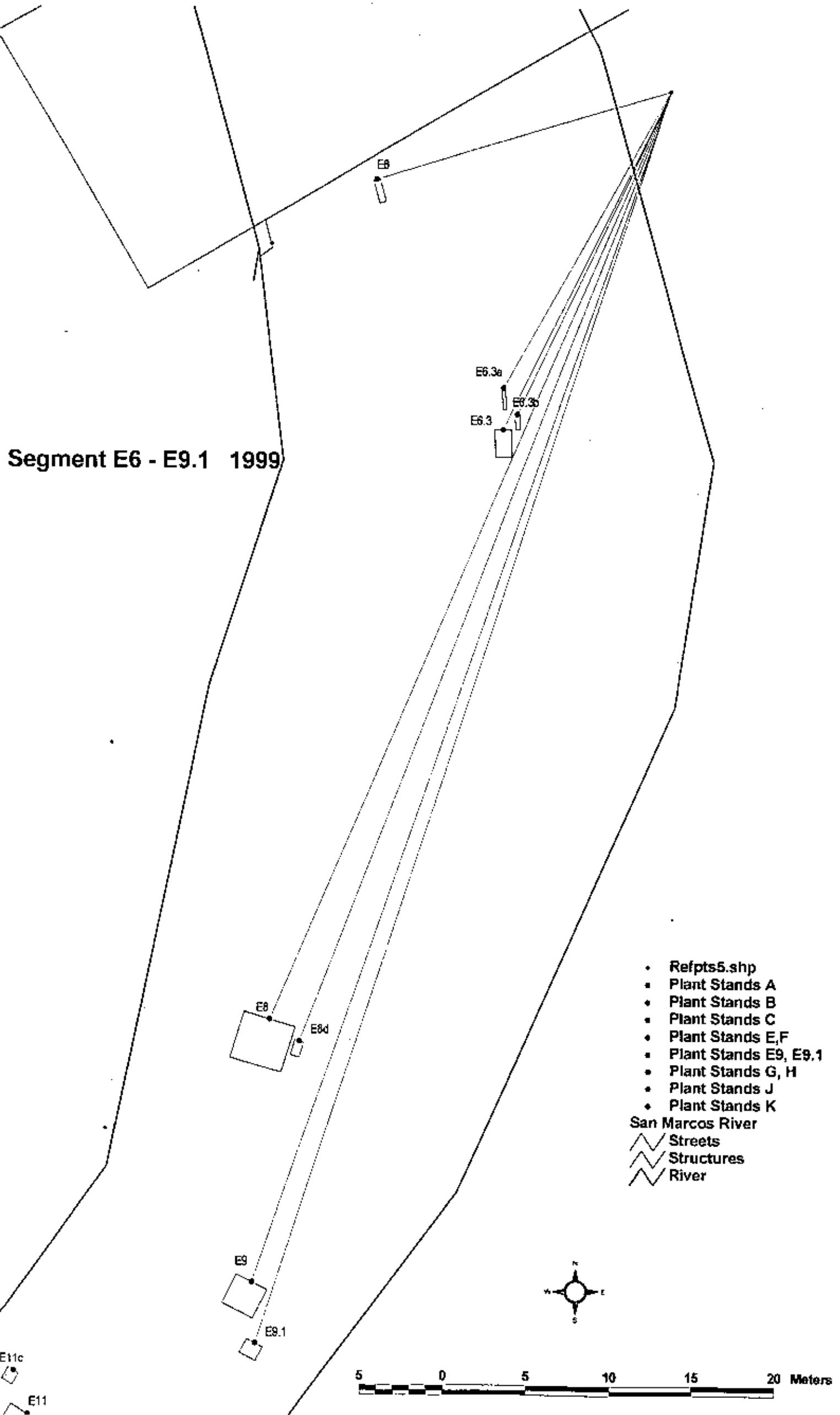
5 0 5 10 15 20 25 Meters

Segment E2 - E3 2000

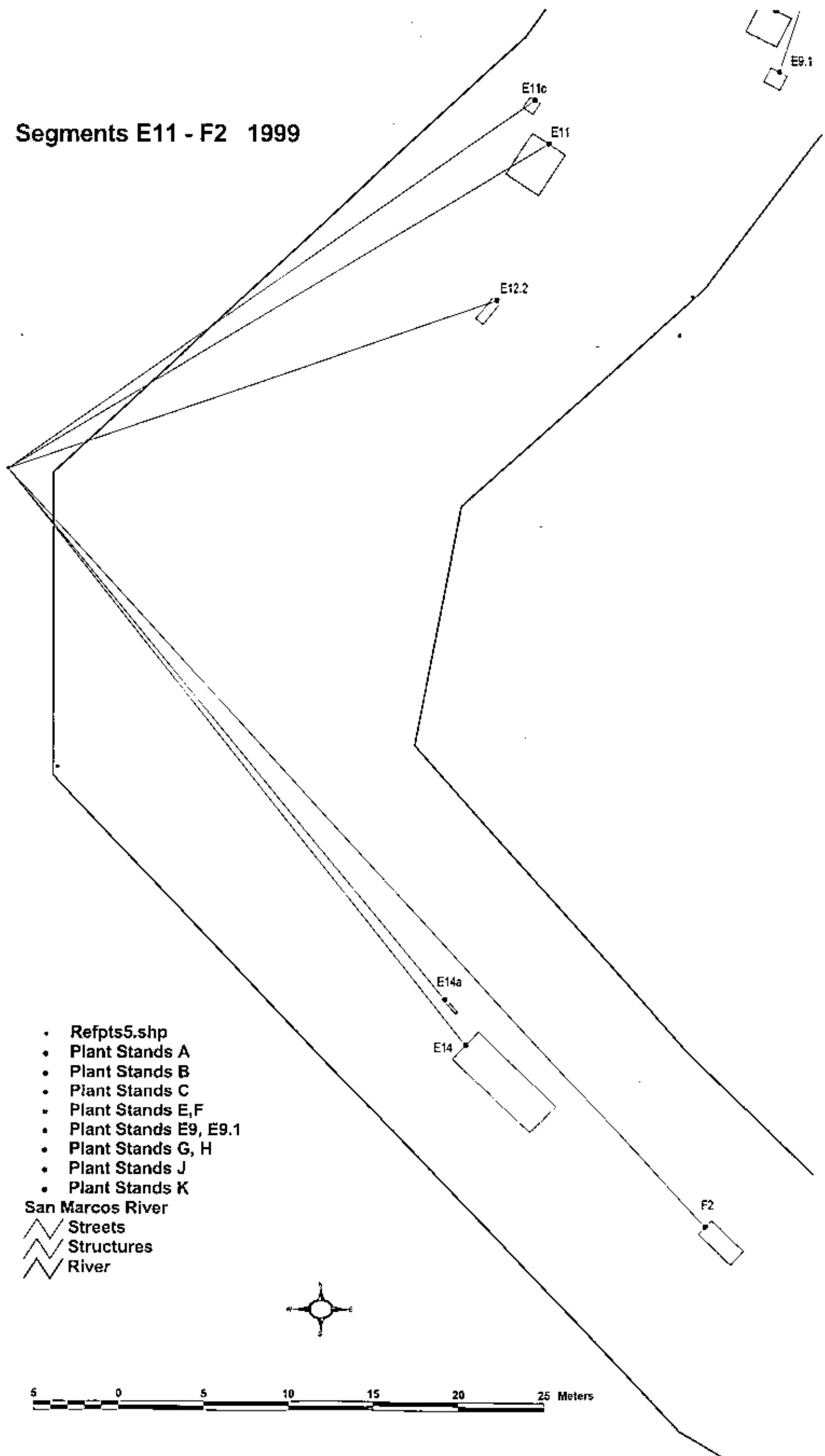


- Refpts5.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands C
  - Plant Stands E,F
  - Plant Stands E6,E8-E11c
  - Plant Stands G, H
  - Plant Stands J
  - Plant Stands K
- San Marcos River
- Streets
  - Structures
  - River





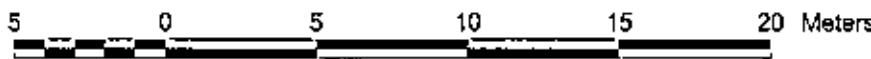
## Segments E11 - F2 1999

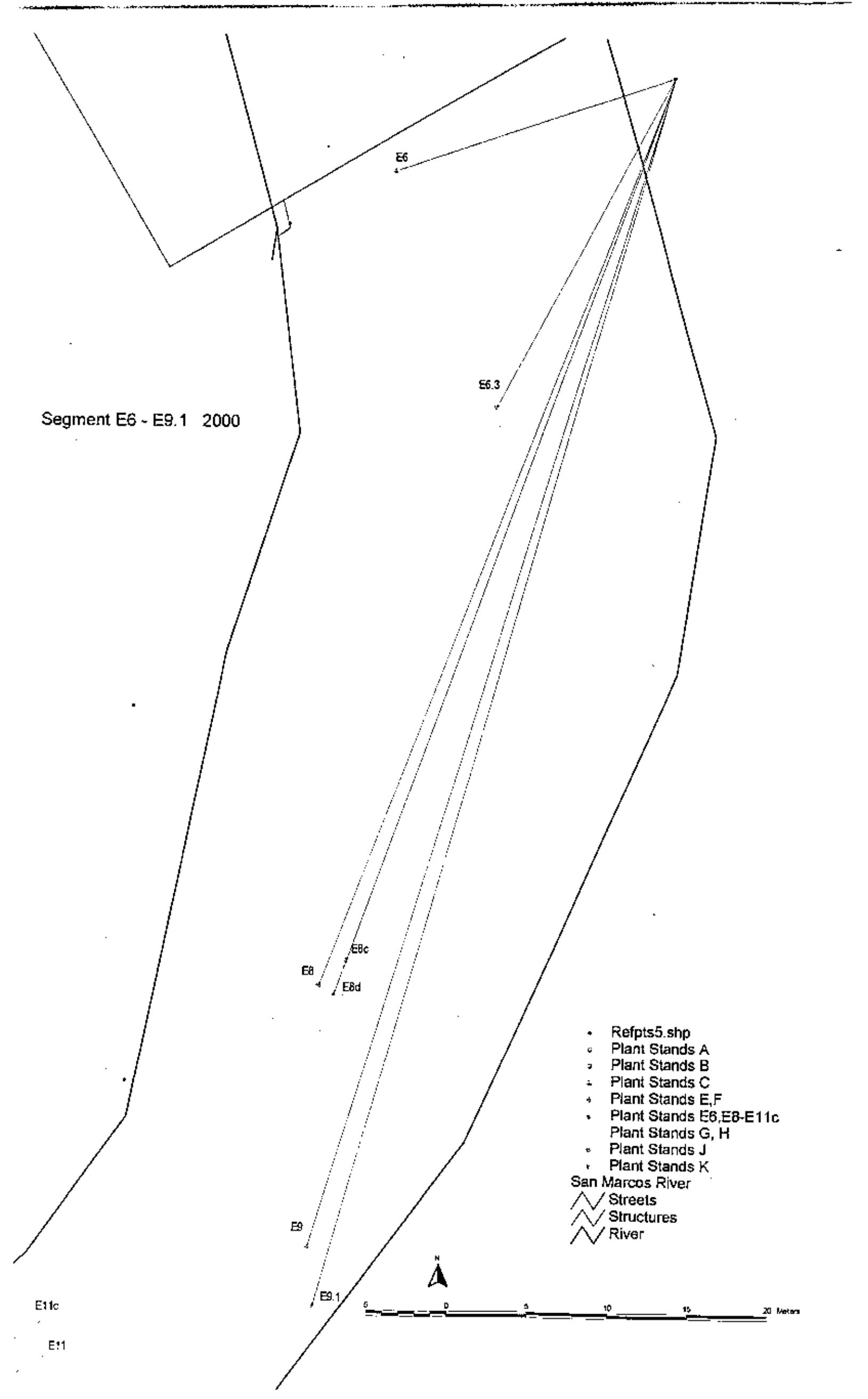


# Segment E1c - E3 2001

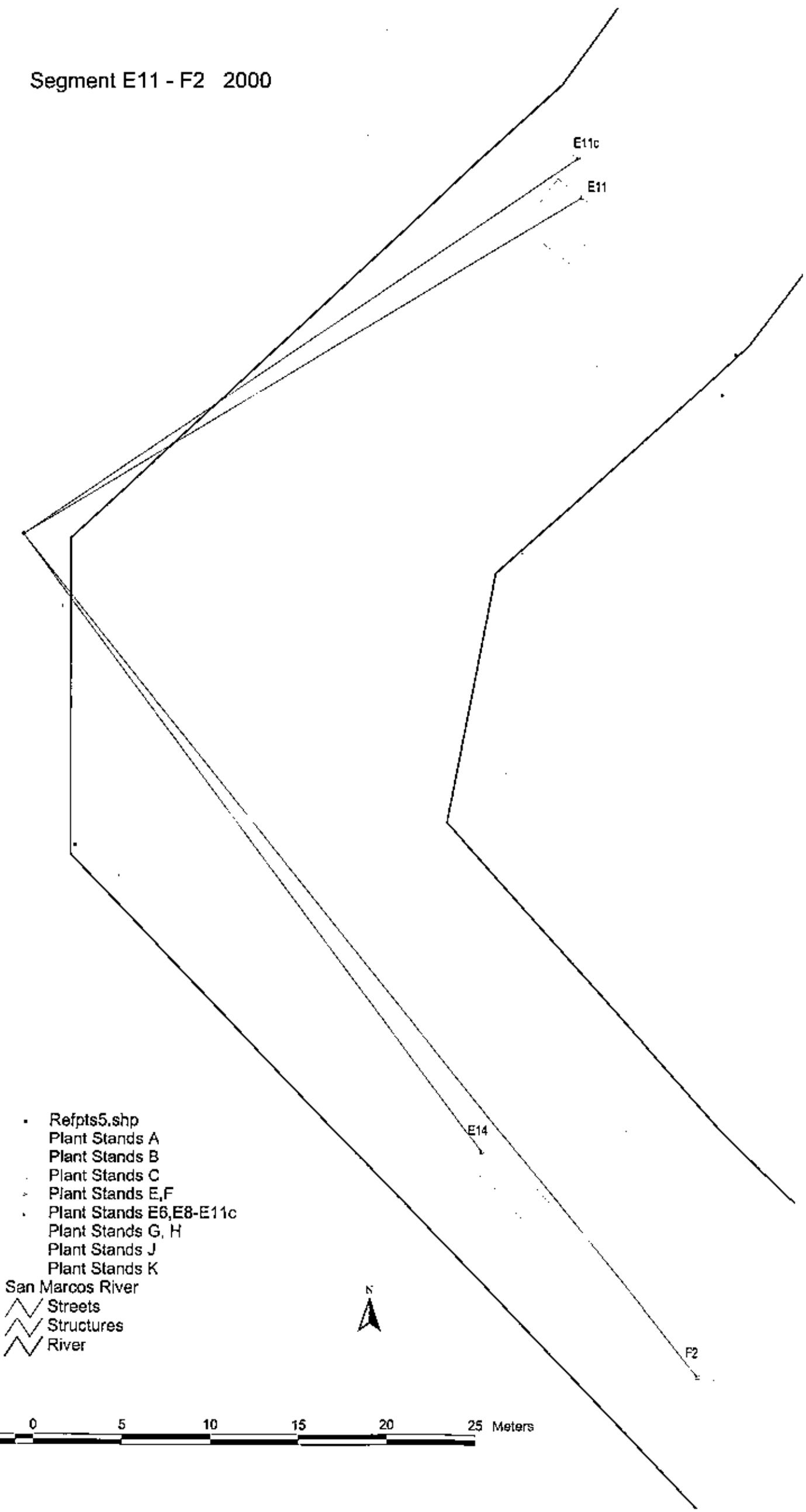
- Refpts5.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands C
  - Plant Stands E
  - Plant Stands E8-E11e
  - Plant Stands F
  - Plant Stands G, H
  - Plant Stands J
  - Plant Stands K
- San Marcos River  
Streets  
Structures  
River

N





Segment E11 - F2 2000



Segments E13 - F2 1989

E13

E14

F1

F2

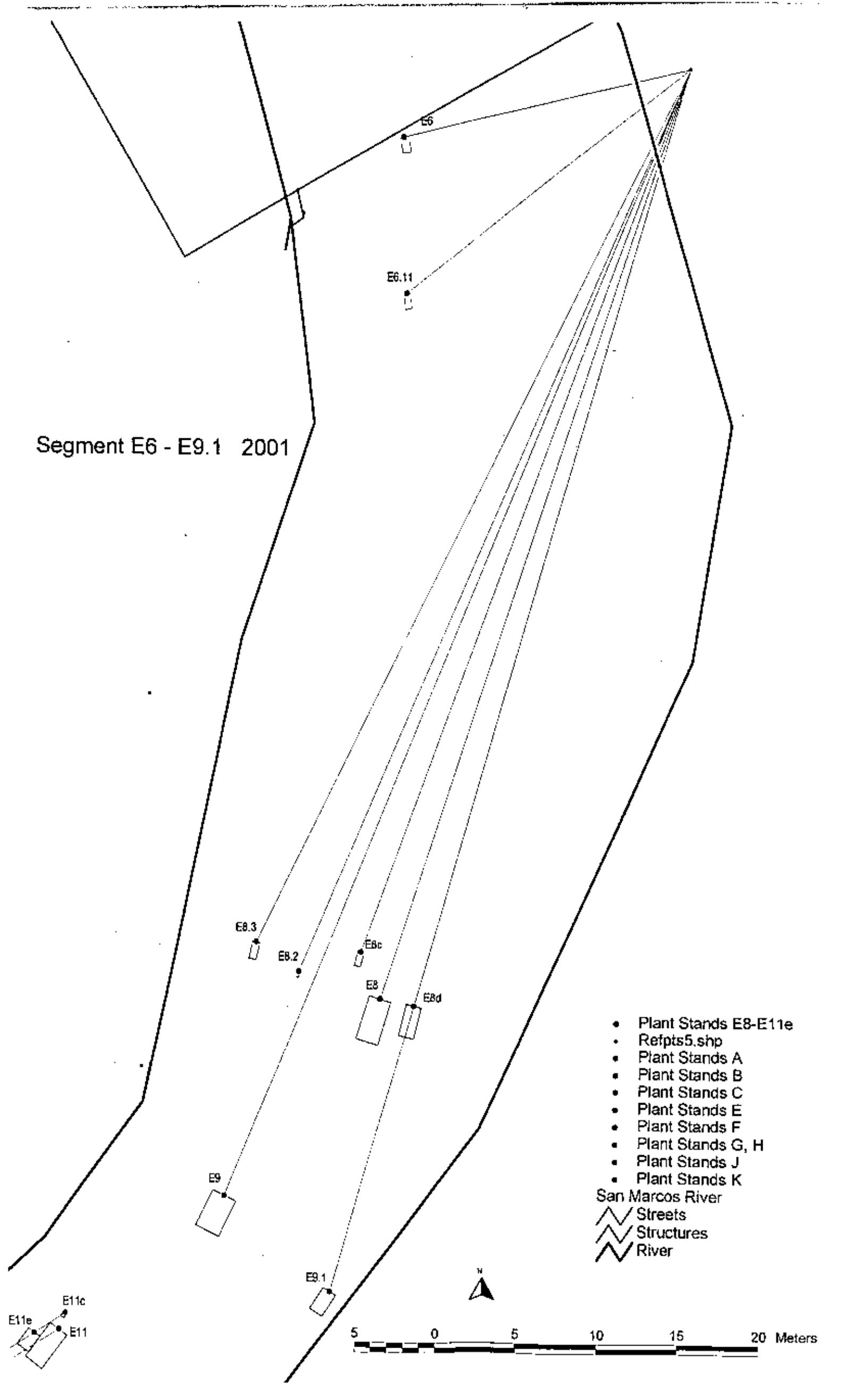
- Ralpts&.shp
- Plant Stands E,F
- Plant Stands E8a, E9-E13
- Plant Stands F2,F8-F12
- Plant Stand F10
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands X
- Plant Stands J
- Plant Stands J2,J4-J11,J23-J26
- Plant Stands J15-J19
- Plant Stands K,L
- Plant Stands K23, K24
- Plant Stands K27,K36,K38-K40,K42-K44
- Plant Stand M1
- Rp1989.shp
- Rp1489.shp
- Rp171.shp

San Marcos River

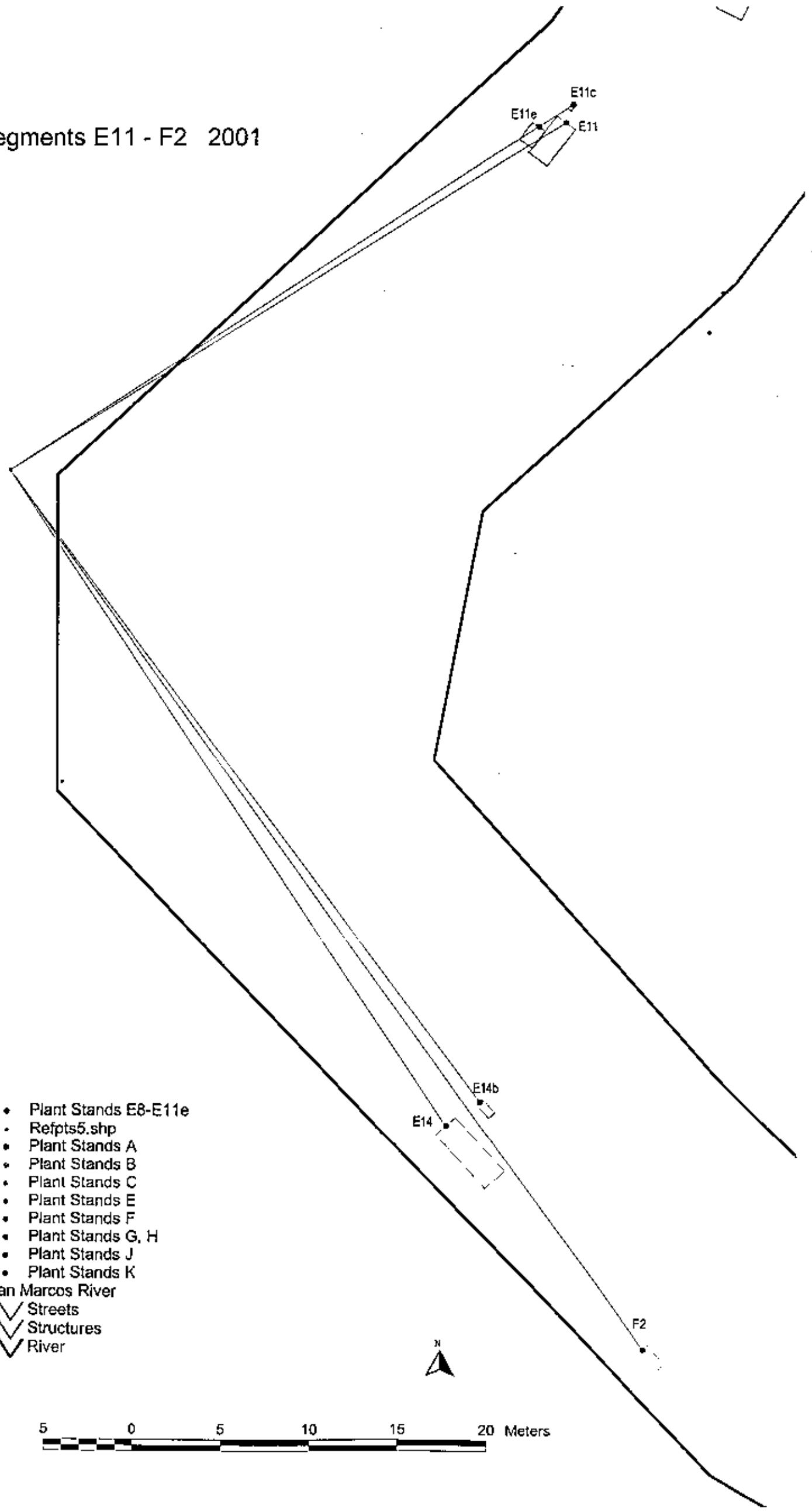
- ~~~~ Streets
- ~~~~ Structures
- ~~~~ River



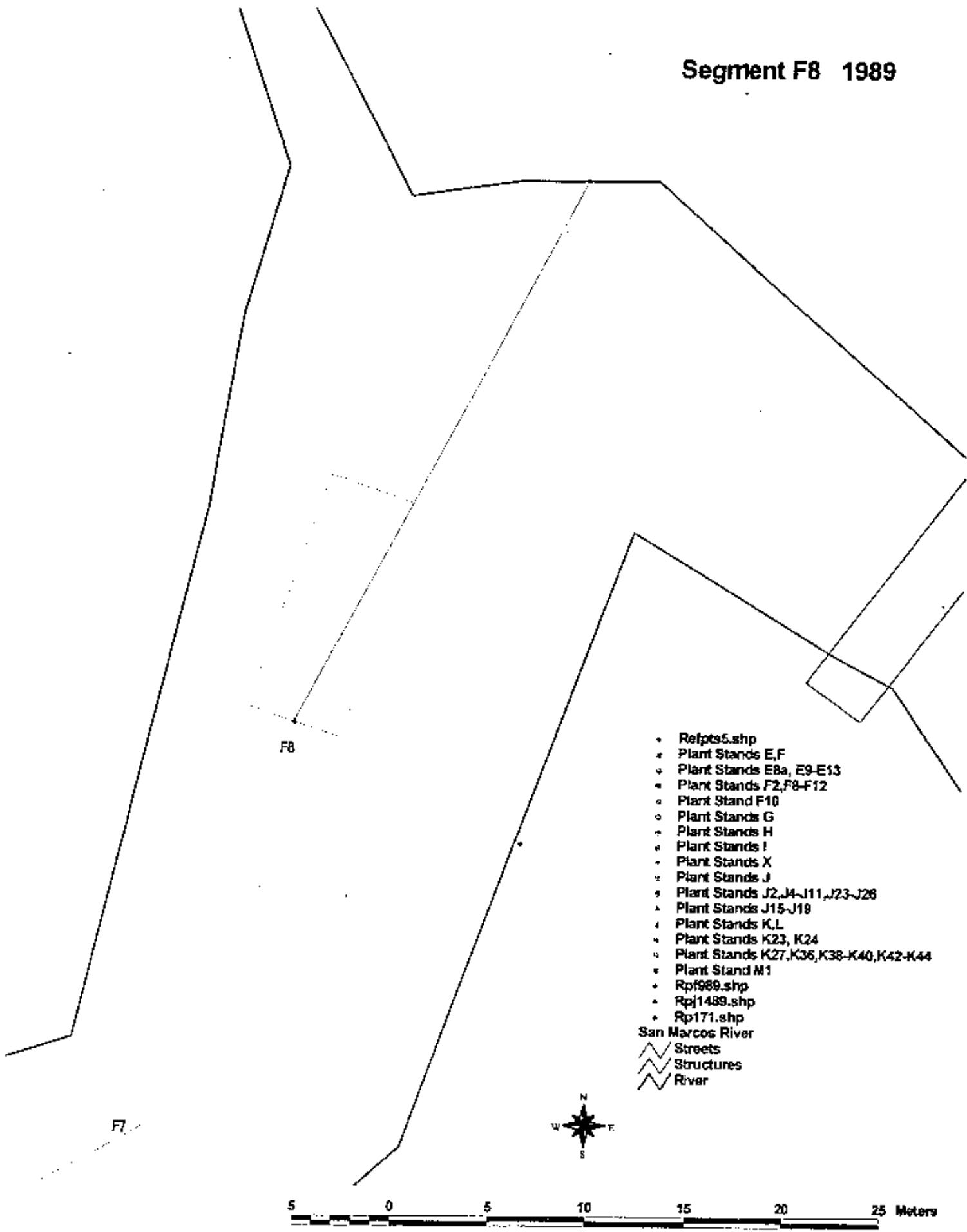
5 0 5 10 15 20 25 30 Meters



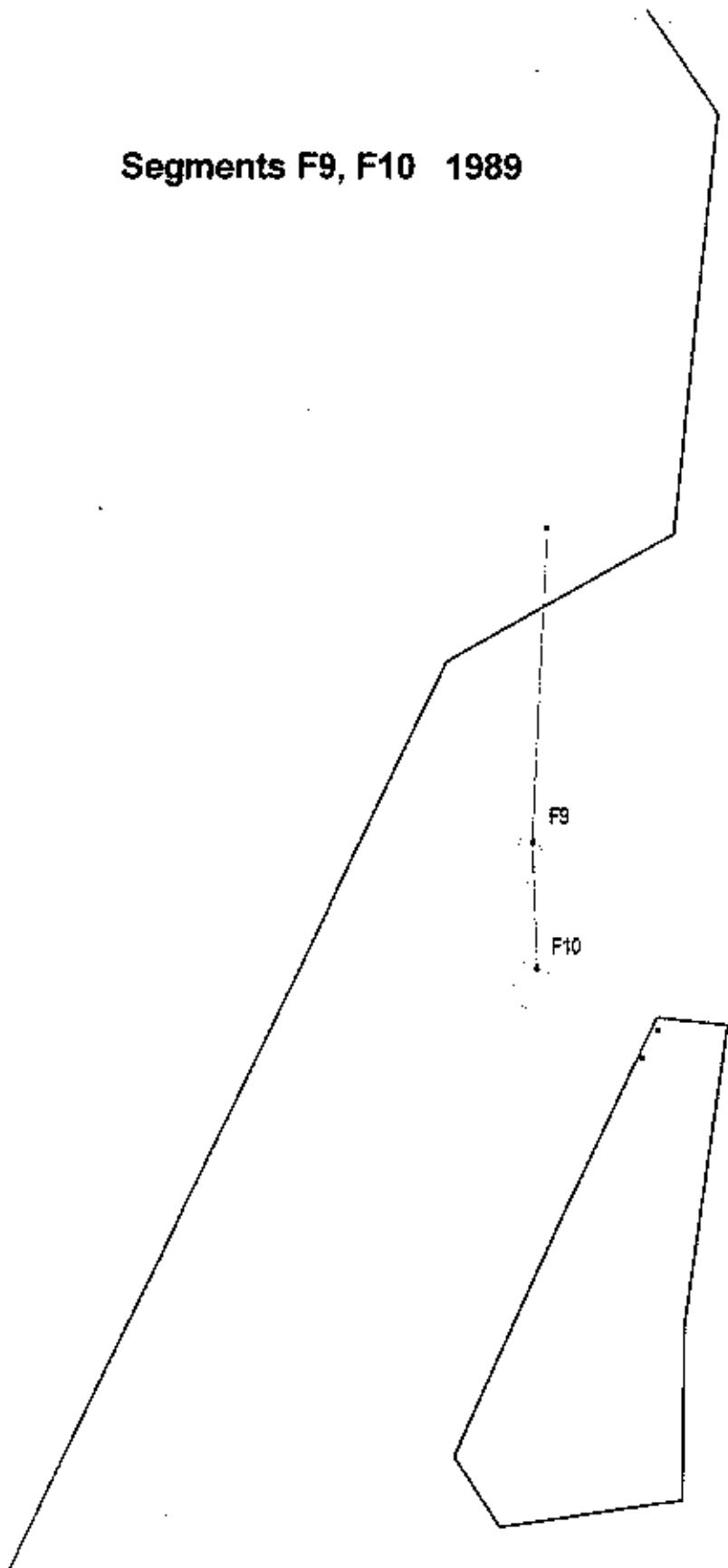
Segments E11 - F2 2001



## Segment F8 1989



## Segments F9, F10 1989



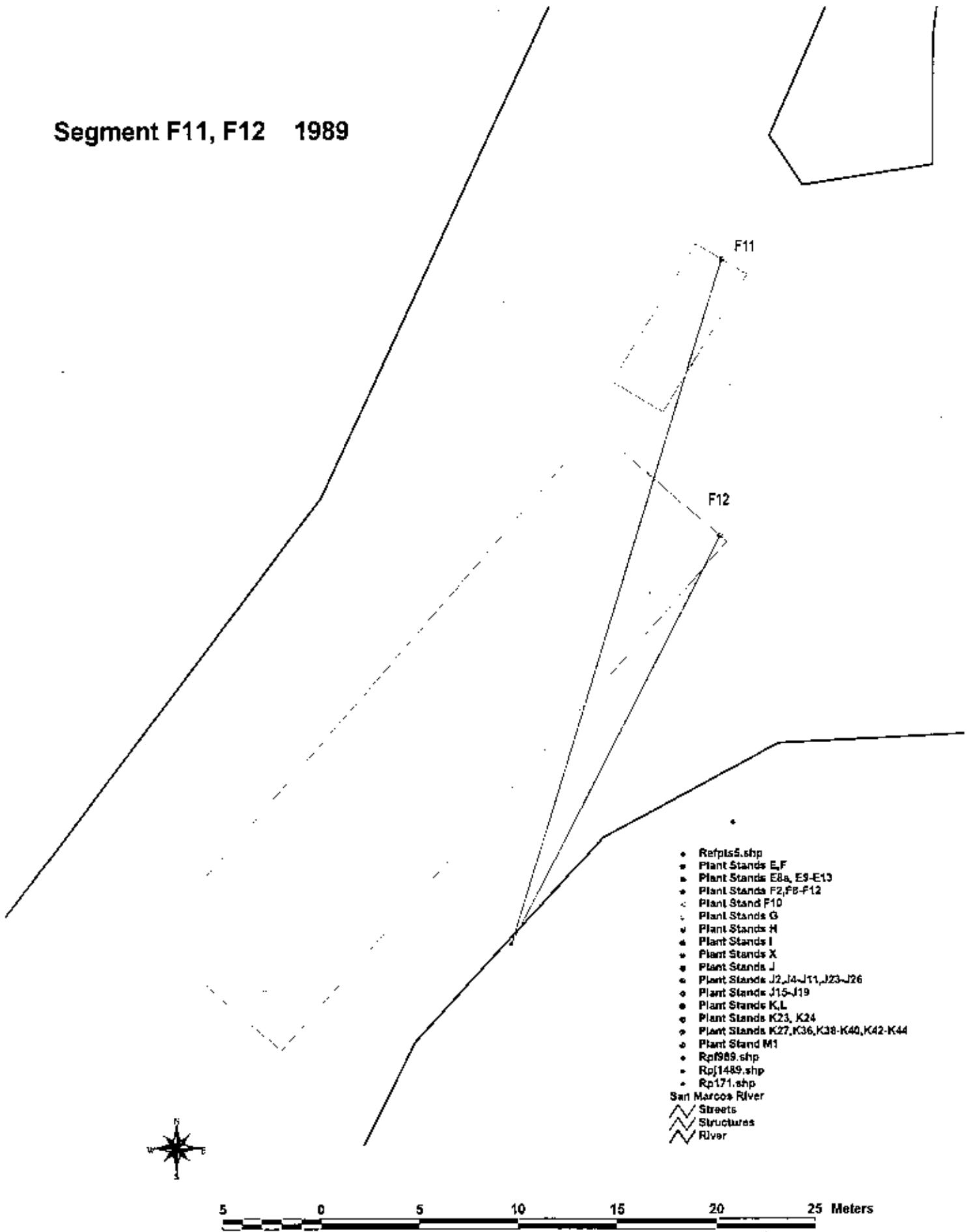
- Rptpts5.shp
- Plant Stands E,F
- Plant Stands E9a, E9-E13
- Plant Stands F2,F8-F12
- Plant Stand F10
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands X
- Plant Stands J
- Plant Stands J2,J4-J11,J23-J28
- Plant Stands J15-J19
- Plant Stands K2,
- Plant Stands K23, K24
- Plant Stands K27,K36,K38-K40,K42-K44
- Plant Stand M1
- Rpt989.shp
- Rpt1489.shp
- Rpt1711.shp

### San Marcos River

- ~~ Streets
- ~~ Structures
- ~~ River



# Segment F11, F12 1989



73

## Segment E13 - F2 1990

E13

74

E14

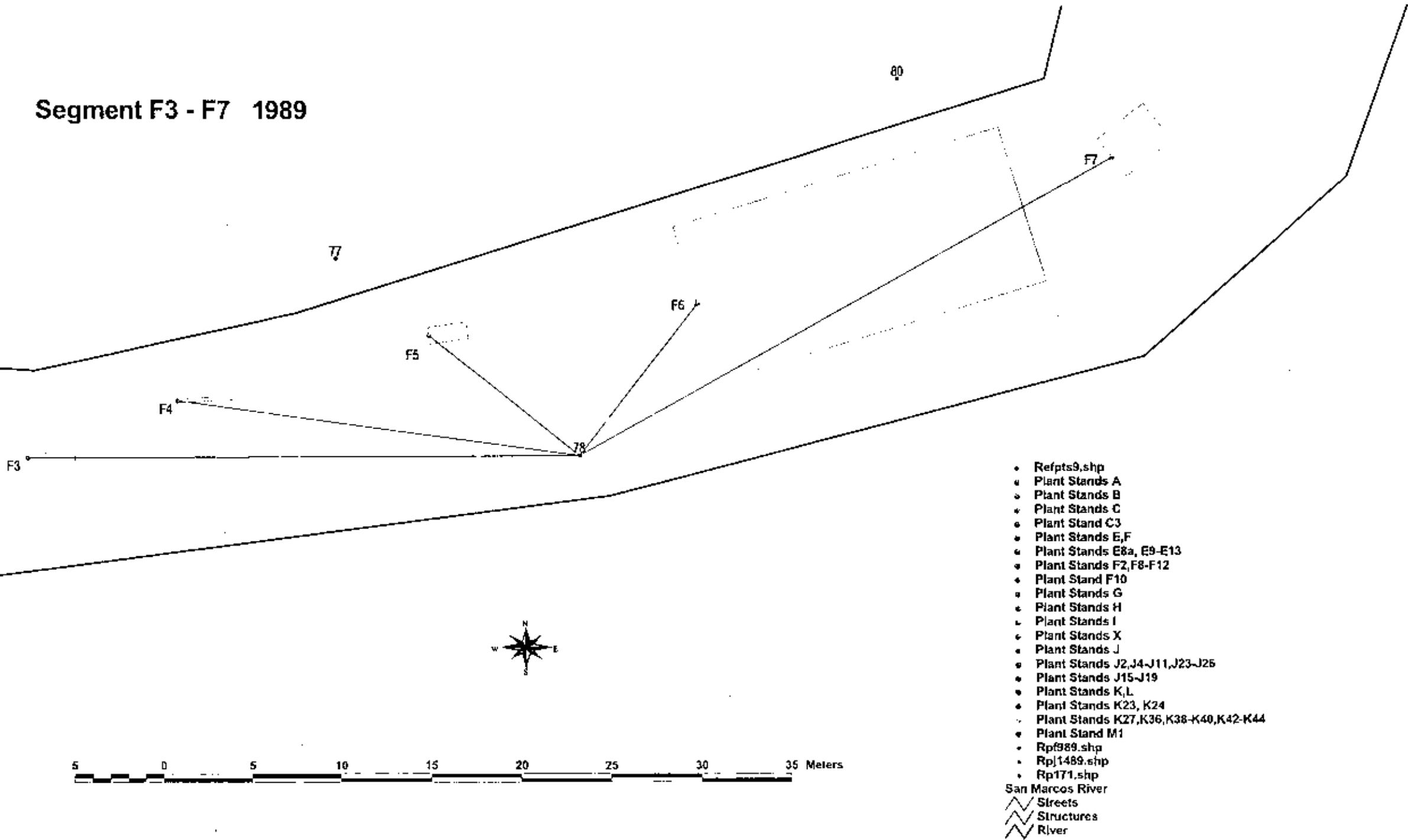
75

F2

- Refpts9.shp
  - Plant Stands A
  - ▼ Plant Stands B
  - Plant Stand B16
  - Plant Stands C
  - ◆ Plant Stands C5-C6, C8, C9a
  - ◆ Plant Stands E,F
  - Plant Stands F4-F6, F8-F15
  - Plant Stands G
  - ◆ Plant Stands H
  - ◆ Plant Stand H2
  - Plant Stands I
  - Plant Stands J
  - Plant Stands J4,J5,J8-J11
  - Plant Stands J27,K1-K5,K29-K31
  - Plant Stands K,L
  - ▼ Plant Stands K11-K22,K31
  - Plant Stands K23, K24
  - Plant Stand K45
- San Marcos River  
Streets  
Structures  
River



## Segment F3 - F7 1989



## Segment F8, F8a 1990

84

- Plant Stands F4-F6, F8-F15
  - Refpts5.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands C
  - Plant Stands E,F
  - Plant Stands G
  - Plant Stands H
  - Plant Stand H2
  - Plant Stands I
  - Plant Stands J
  - Plant Stands J4,J5,J8-J11
  - Plant Stands J27,K1-K5,K29-K31
  - Plant Stands K,L
  - Plant Stands K11-K22,K31
  - Plant Stands K23, K24
  - Plant Stand K45
- San Marcos River
- ▲ Streets
  - ▲▲ Structures
  - ▲▲▲ River

80

0

5

10

15 Meters

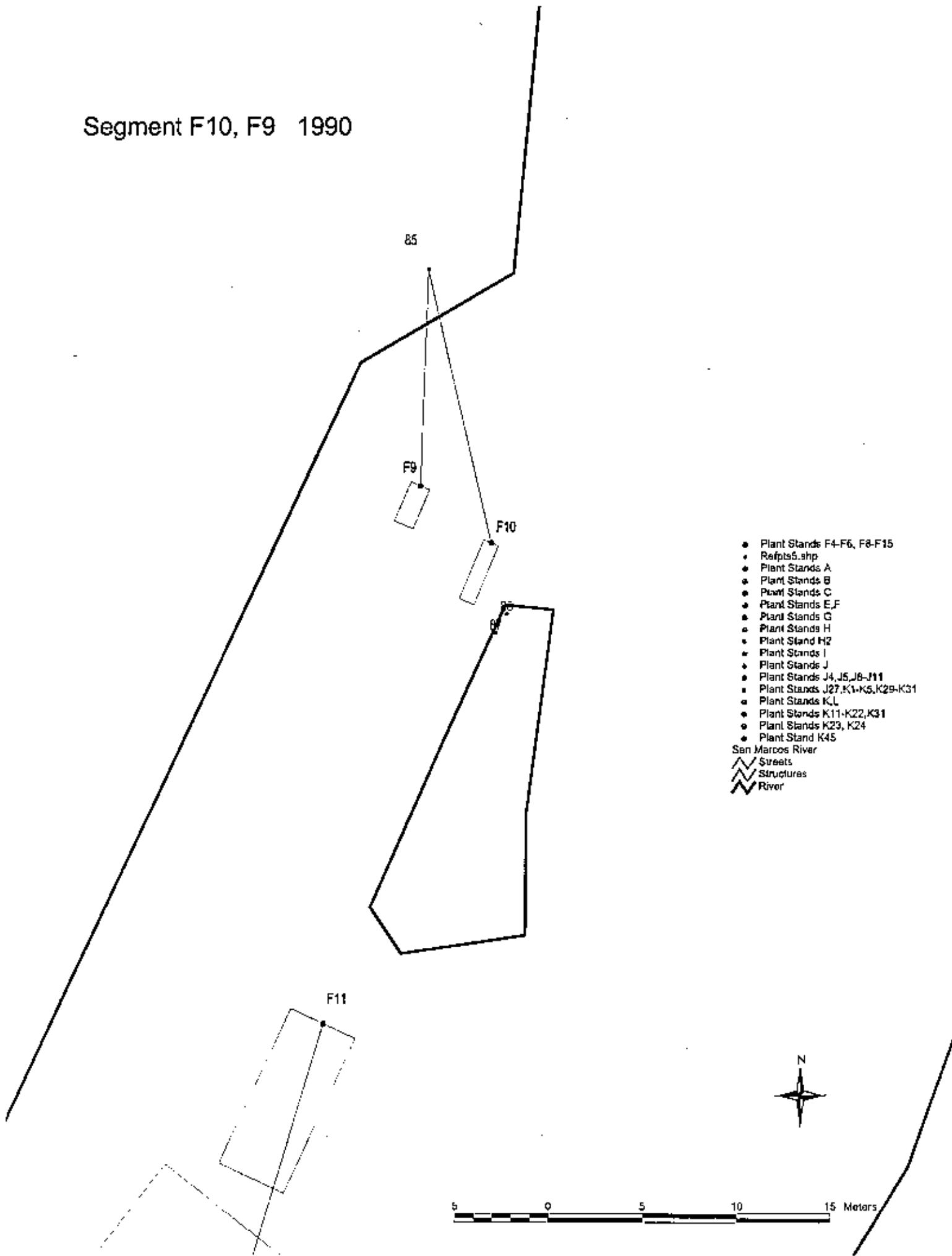
F8

F8a

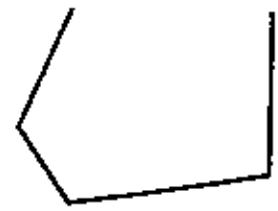
82



Segment F10, F9 1990



Segment F11 - F15 1990



F11

F12

F13

F14 F15

90



5 0 5 10 15 Meters

- Plant Stands F4-F6, FB F15
  - Rebar 6 shp
  - Plant Stand A
  - Plant Stand B
  - Plant Stand C
  - Plant Stands E,F
  - Plant Stands G
  - Plant Stands H
  - Plant Stand H2
  - Plant Stand I
  - Plant Stand J
  - Plant Stands J4,J5,J8-J11
  - Plant Stands J27,K4-K5,K29-K31
  - Plant Stand K1
  - Plant Stands K11-K22,K31
  - Plant Stands K23, K24
  - Plant Stand K46
- San Marcos River
- △ Structures
  - ▽ Structures
  - ▽ River

Segment E13 - F2 1991

73

E13

F4

E14

F2

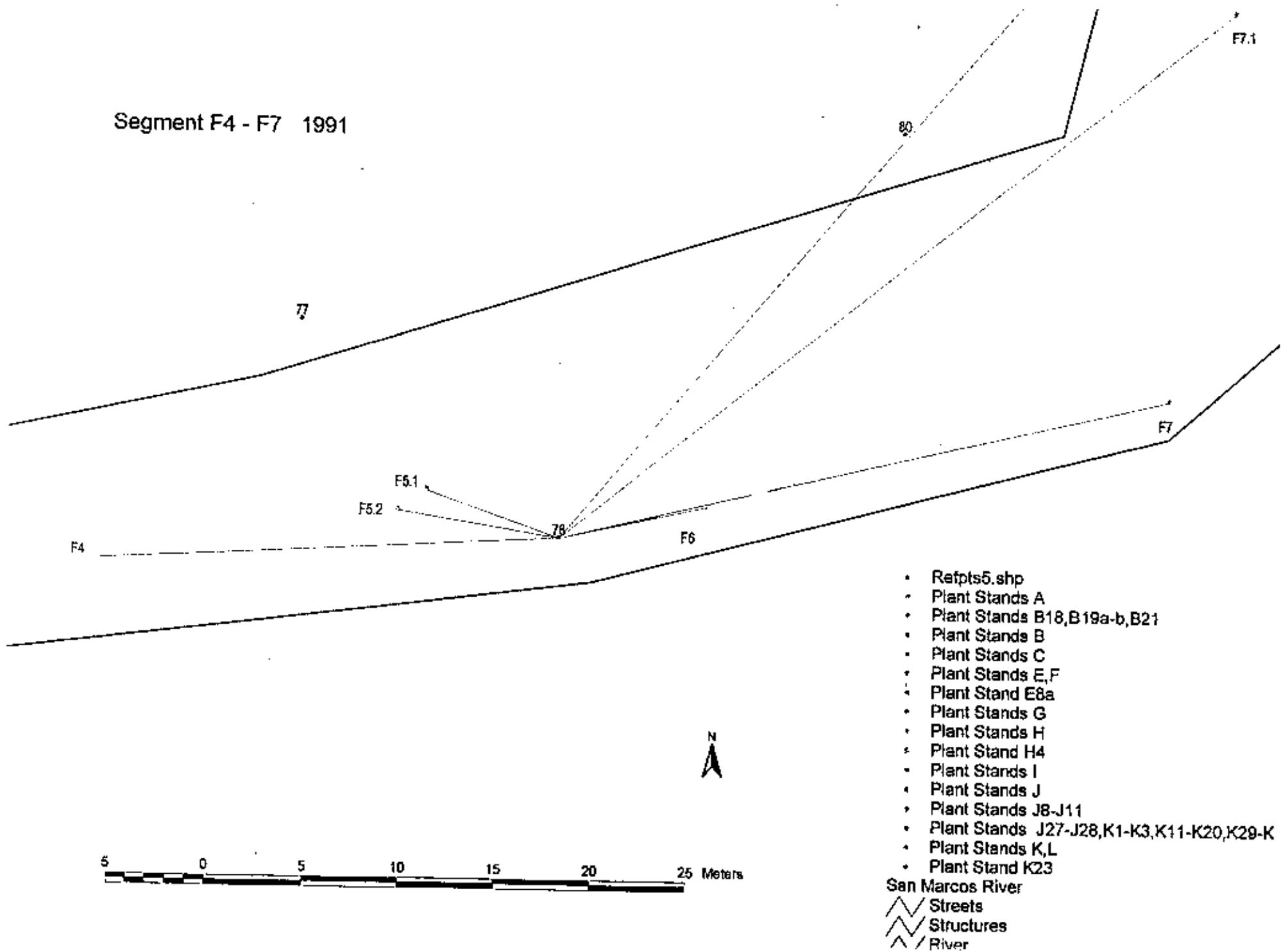
- Reptls9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands B16,B16.1
- Plant Stands B18,B19a-b,B21
- Plant Stands C
- Plant Stands C5,C5.1,C6,C6.1,C9,C9a
- Plant Stands E,F
- Plant Stand E8a
- Plant Stands G
- Plant Stands H
- Plant Stand H4
- Plant Stands I
- Plant Stands J
- Plant Stands J8-J11
- Plant Stands J27-J28,K1-K3,K11-K20,K29-K30
- Plant Stand K,L
- Plant Stand K23

San Marcos River  
Streets  
Structures  
River



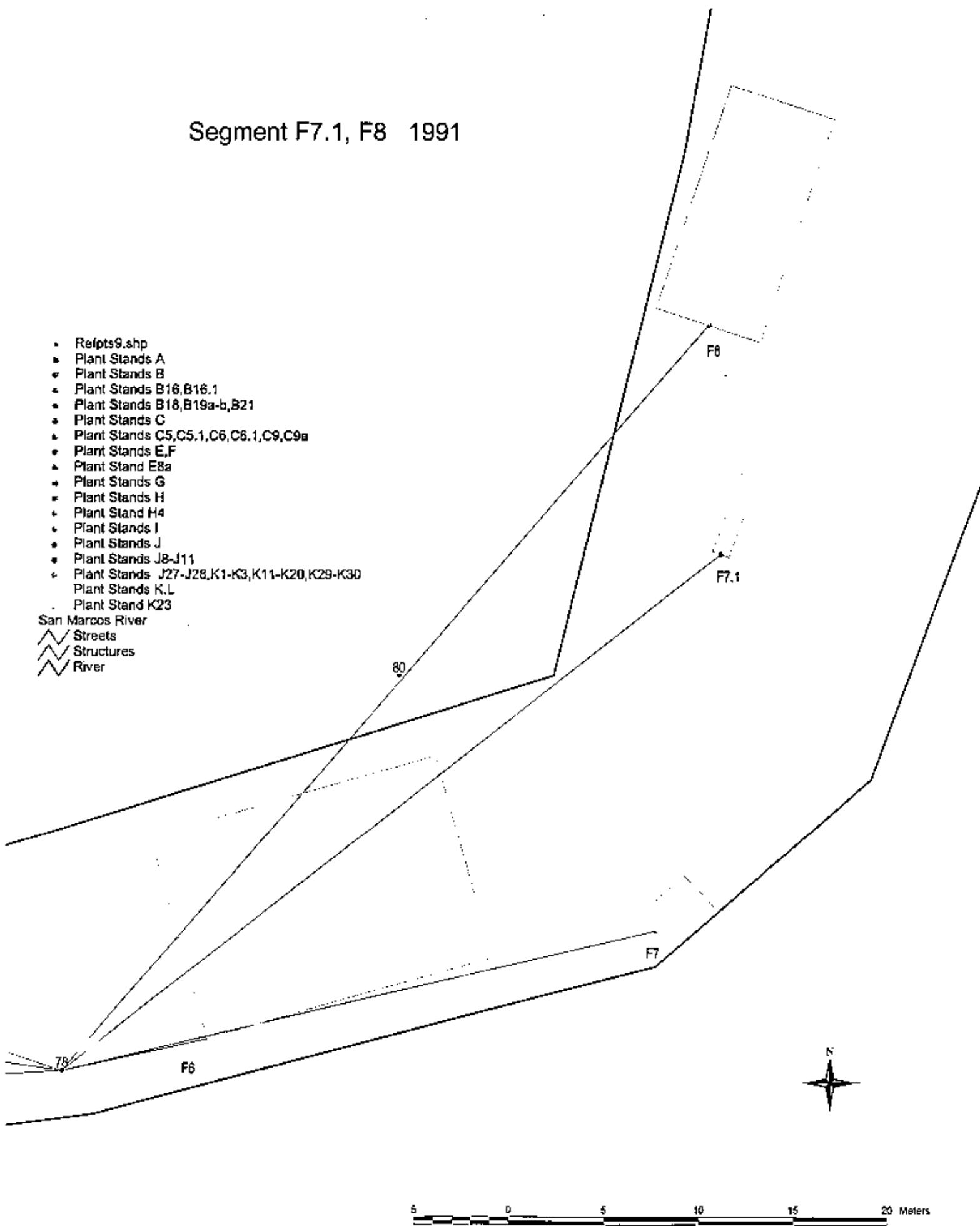
5 0 5 10 15 Meters

Segment F4 - F7 1991

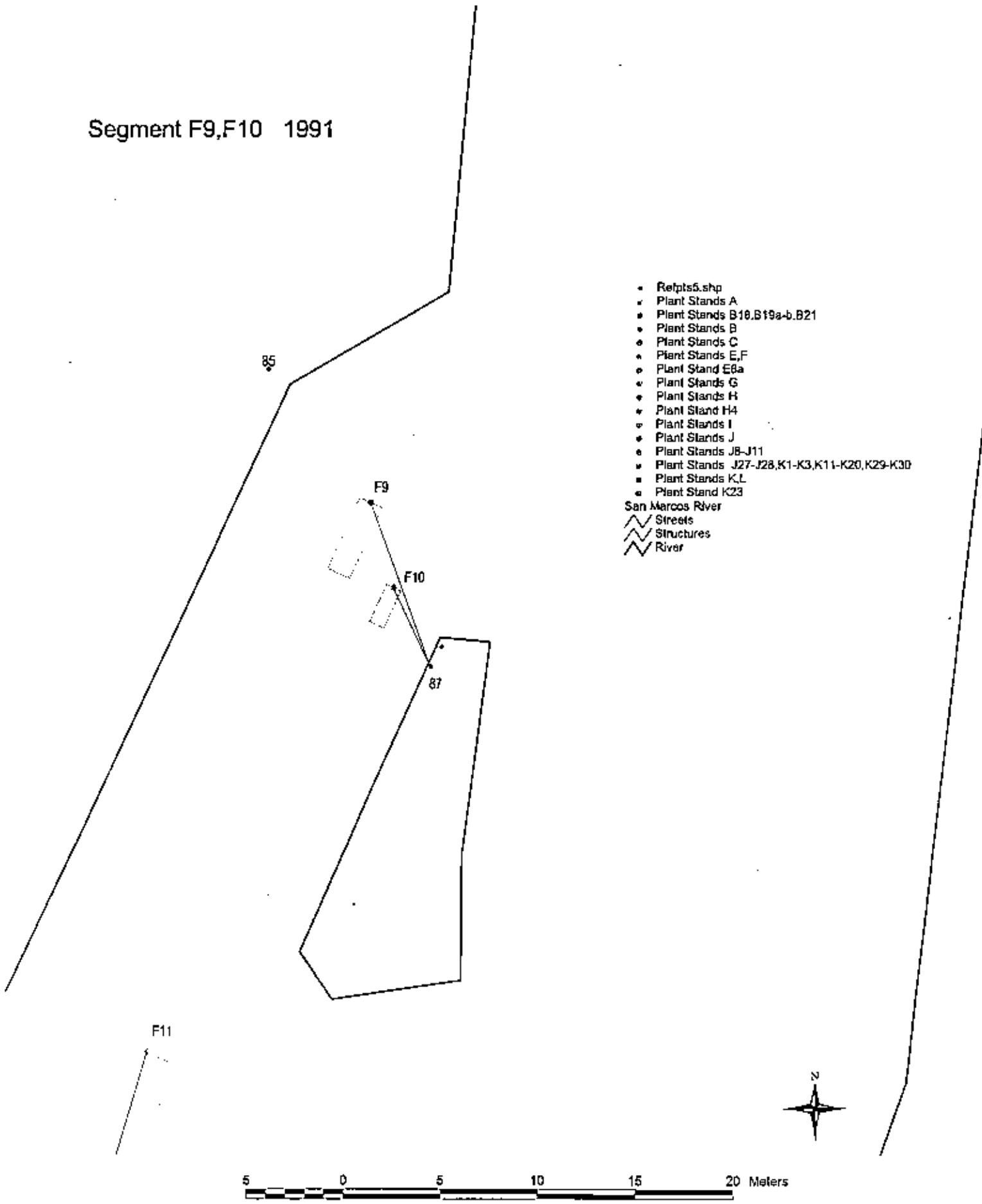


## Segment F7.1, F8 1991

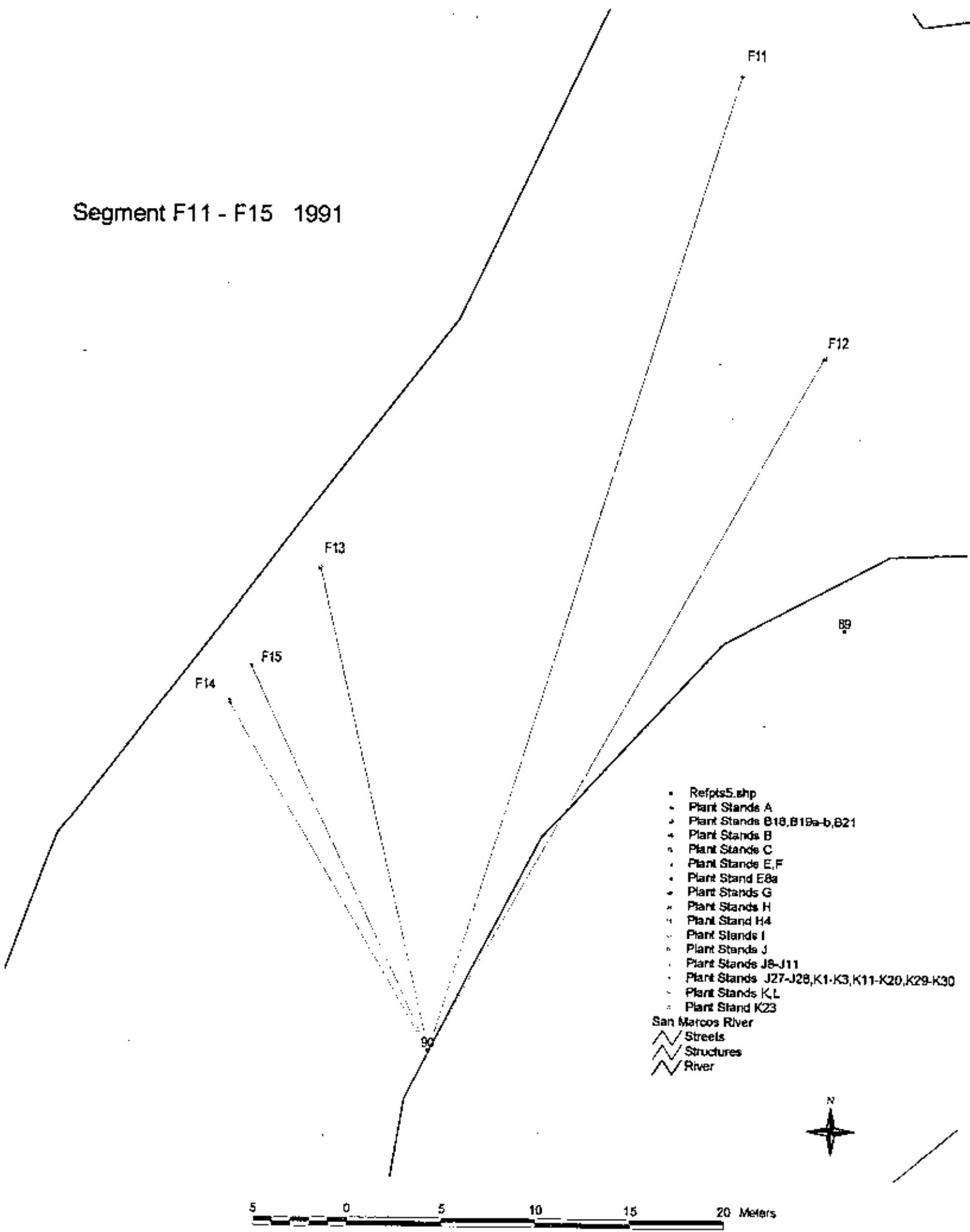
- Repts9.shp
- Plant Stands A
- ▼ Plant Stands B
- ▲ Plant Stands B16,B16.1
- ▲ Plant Stands B18,B19a-b,B21
- ▲ Plant Stands C
- ▲ Plant Stands C5,C5.1,C6,C6.1,C9,C9a
- Plant Stands E,F
- ▲ Plant Stand E8a
- Plant Stands G
- Plant Stands H
- Plant Stand H4
- Plant Stands I
- Plant Stands J
- Plant Stands J8-J11
- Plant Stands J27-J28,K1-K3,K11-K20,K29-K30
- Plant Stands K,L
- Plant Stand K23
- San Marcos River
- ▲ Streets
- ▲ Structures
- ▲ River



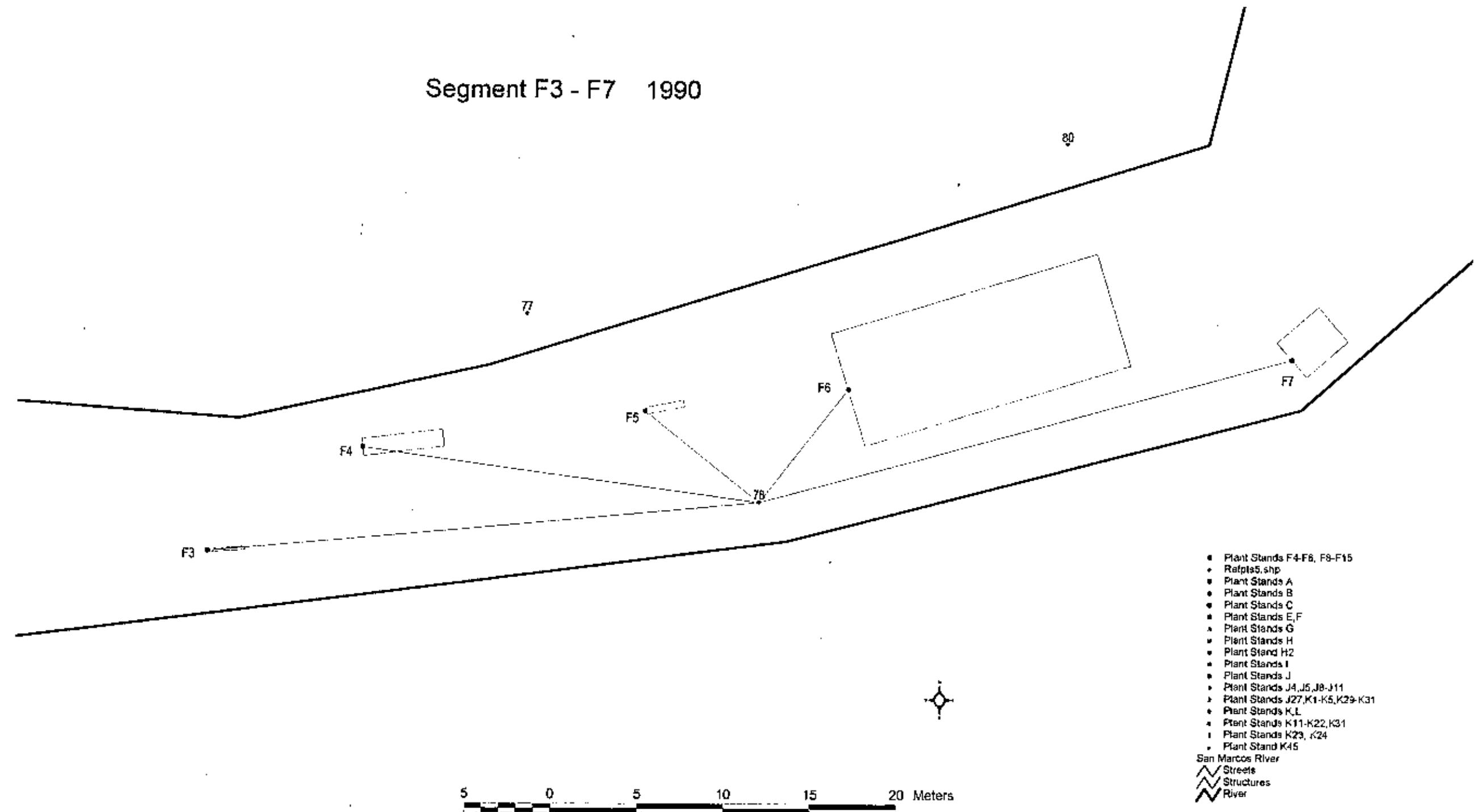
# Segment F9,F10 1991



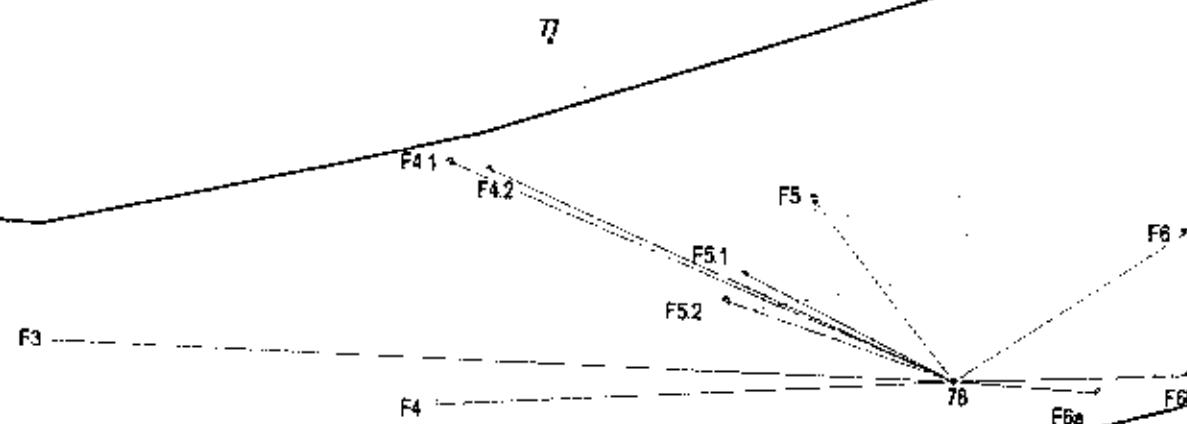
Segment F11 - F15 1991



## Segment F3 - F7 1990

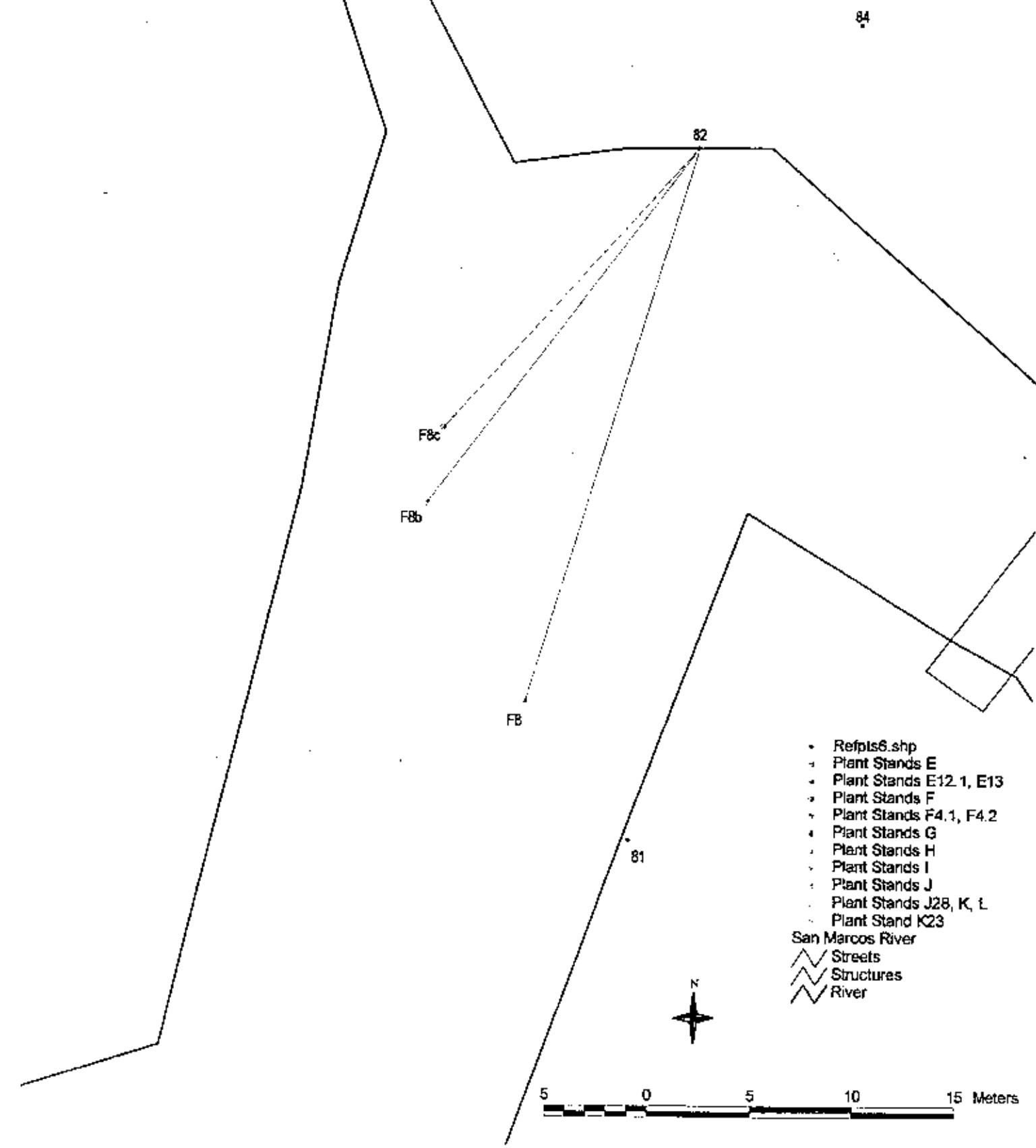


Segments F3 - F6b 1992



- Refpts8.shp
- Plant Stands E
- Plant Stands E12.1, E13
- Plant Stands F
- Plant Stands F4.1, F4.2
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands J
- Plant Stands J28, K, L
- Plant Stand K23
- San Marcos River
- Streets
- Structures
- River

## Segments F8 - F8c 1992



Segment F9.1 1992

65

F9.1

86  
87

F11

5 0 5 10 15 20 Meters

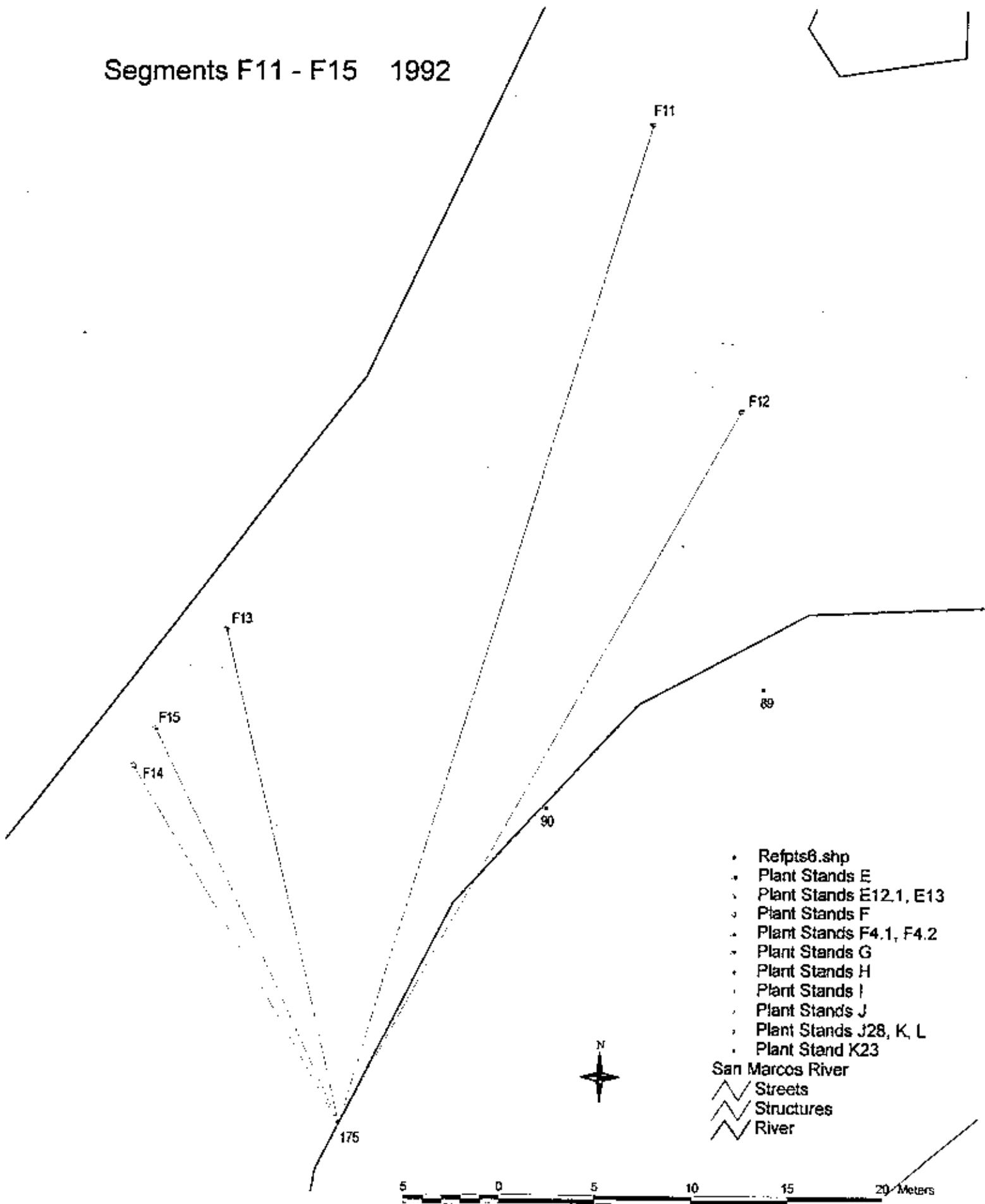
- Refpts6.shp
- Plant Stands E
- Plant Stands E12.1, E13
- Plant Stands F
- Plant Stands F4.1, F4.2
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands J
- Plant Stands J28, K, L
- Plant Stand K23

San Marcos River

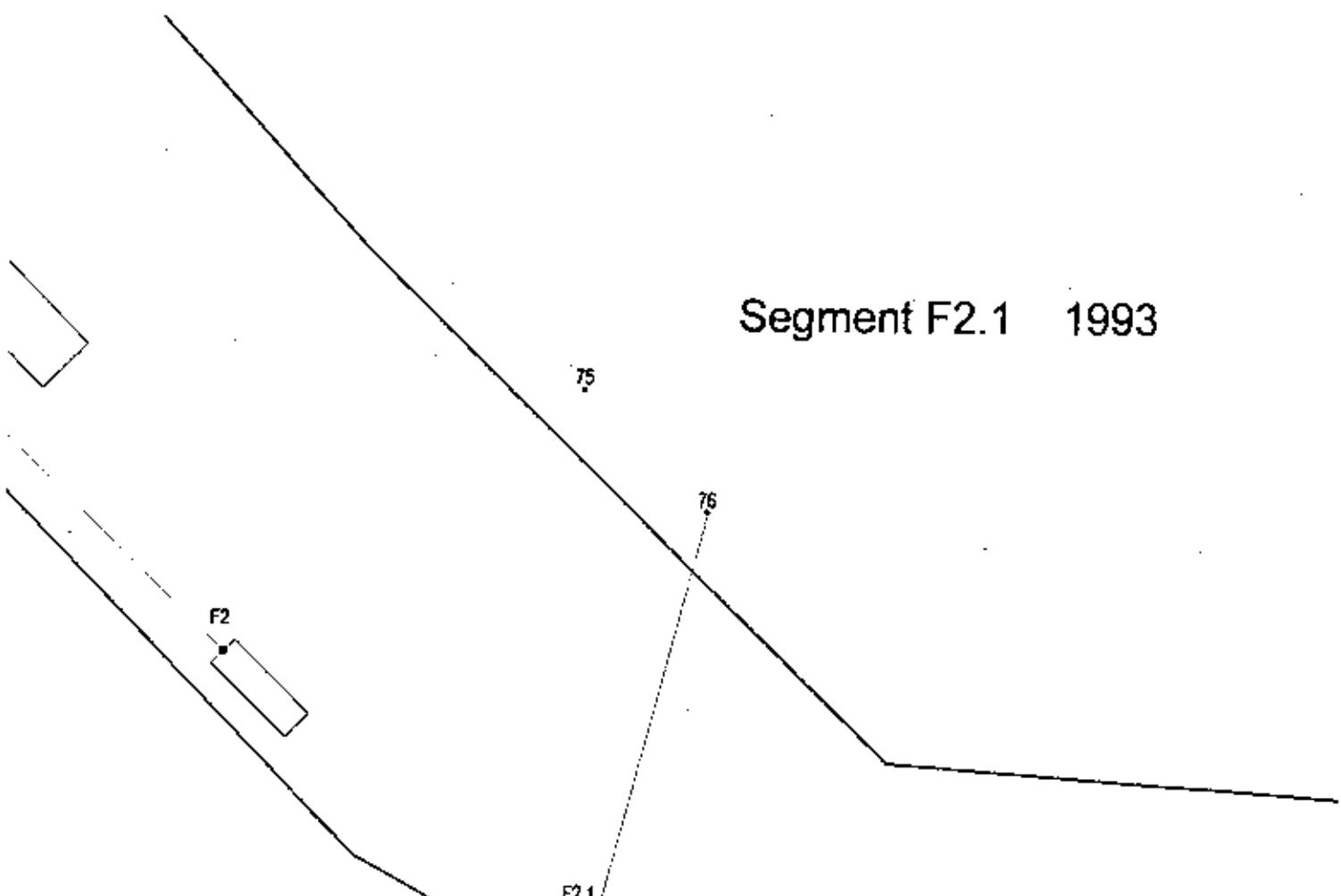
- ~~~~ Streets
- ~~~~ Structures
- ~~~~ River



Segments F11 - F15 1992



## Segment F2.1 1993



- Plant Stands F2, F11-F15
- Refpts6.shp
- Plant Stands A
- Plant Stands B
- Plant Stand B15e
- Plant Stands C
- Plant Stands E,F
- Plant Stands E1-E5
- Plant Stands - G,H1
- Plant Stands H2-H3
- Plant Stands I
- Plant Stands J
- Plant Stands J9-J11
- Plant Stands K,L
- Plant Stands K11-K20,K29-K30
- Plant Stands K37-K44

San Marcos River

- /\ Streets
- /\ Structures
- /\ River



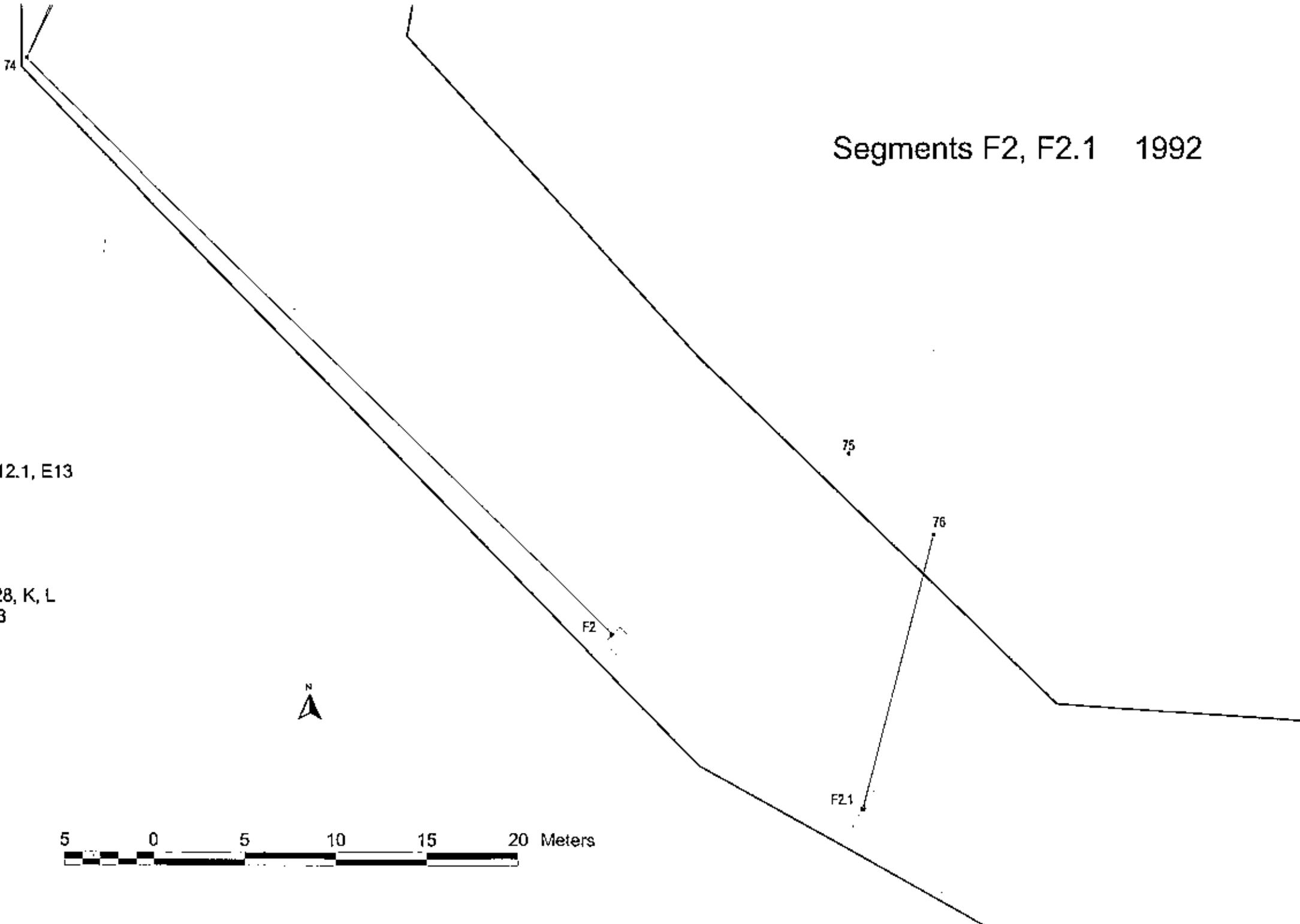
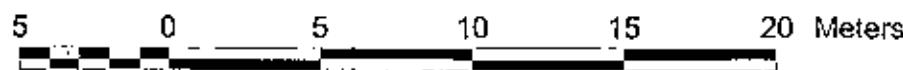
5 0 5 10 15 Meters

Segments F2, F2.1 1992

- Refpts6.shp
- Plant Stands E
- Plant Stands E12.1, E13
- Plant Stands F
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands J
- Plant Stands J28, K, L
- Plant Stand K23

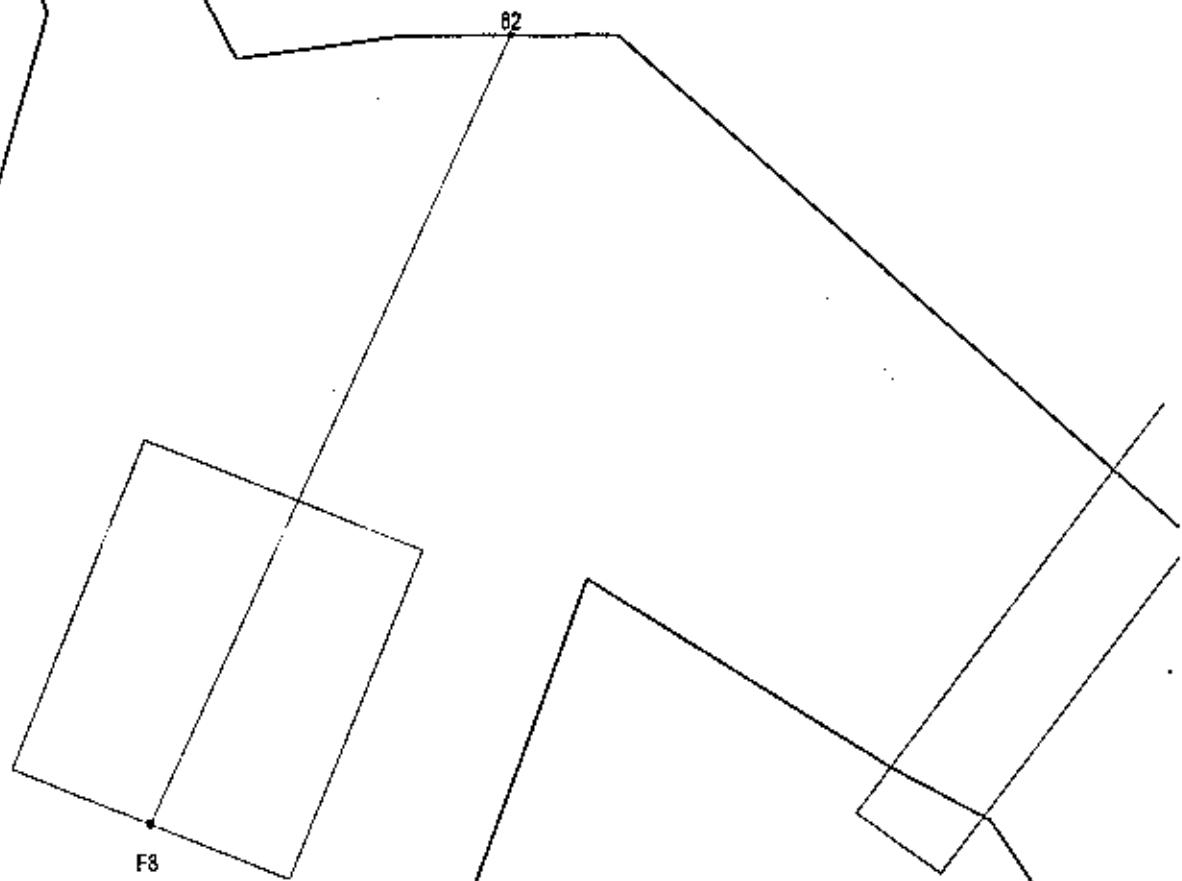
San Marcos River

- Streets
- Structures
- River



84

### Segment F8 1993



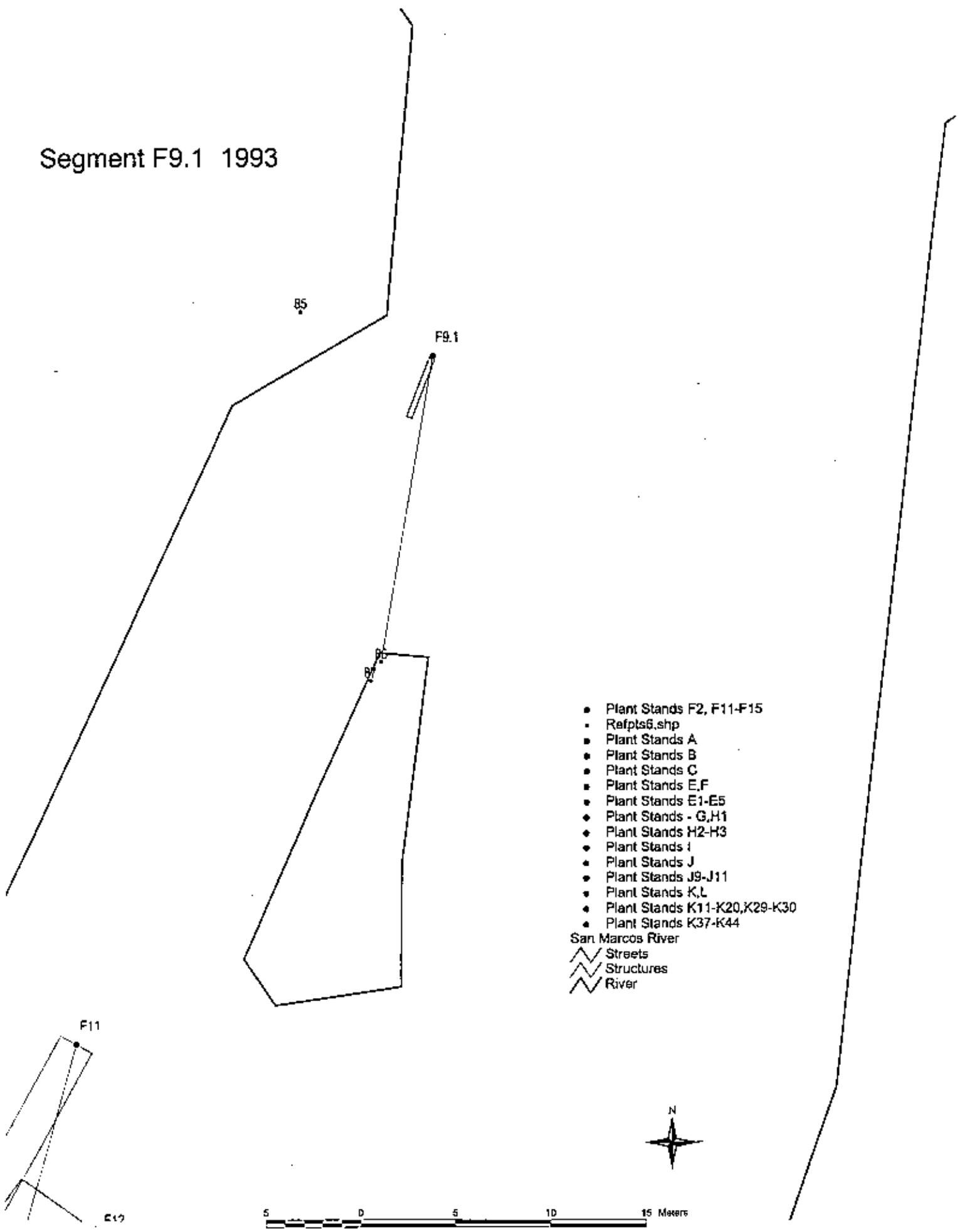
- Refpts9.shp
  - ◆ Plant Stands A
  - Plant Stands B
  - Plant Stands B3,B8a,B15.1,B15.6,B15.7,B16.5,B16.6,B17.5,B18,B19
  - ▲ Plant Stands C
  - ▲ Plant Stands CSa, CS
  - Plant Stands E,F
  - ▲ Plant Stands E1-E5
  - ▲ Plant Stands F2, F11-F15
  - Plant Stands - G,H1
  - Plant Stands H2-H3
  - Plant Stands I
  - Plant Stands J
  - Plant Stands J9-J11
  - Plant Stands K,L
  - Plant Stands K11-K20,K29-K30
  - Plant Stands K37-K44
- San Marcos River  
▲ Streets  
▲ Structures  
▲ River



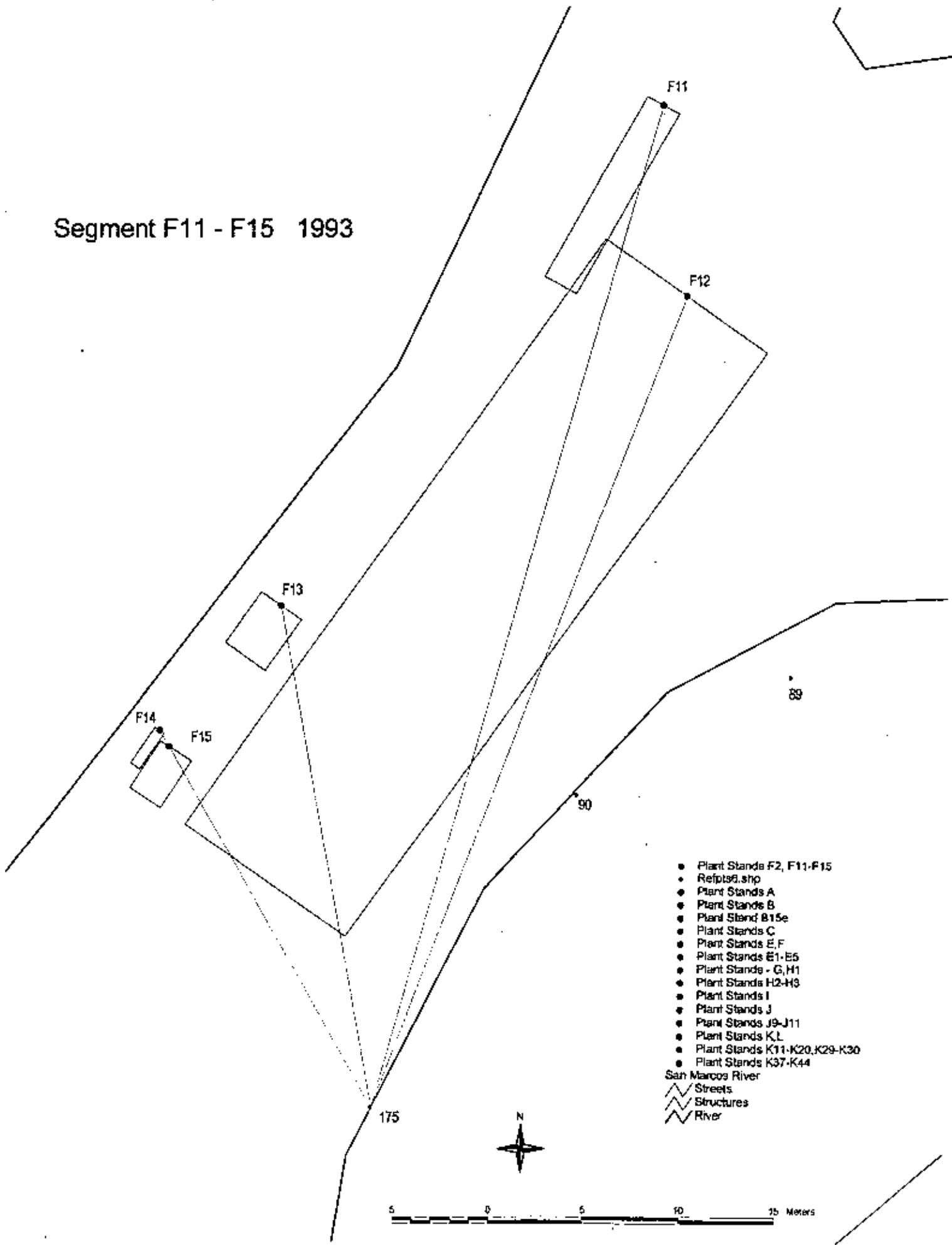
5 0 5 10 15 Meters

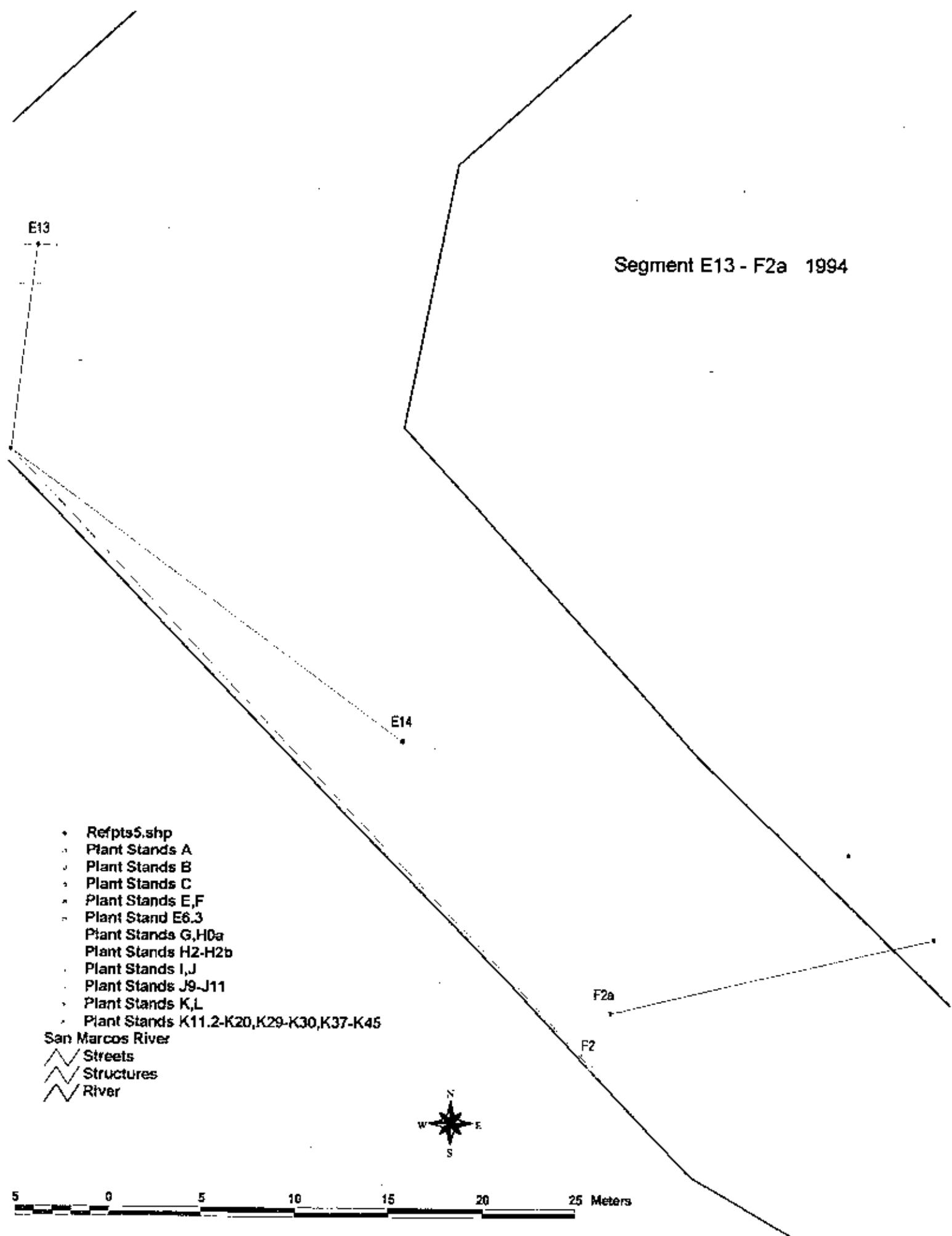
F7

## Segment F9.1 1993

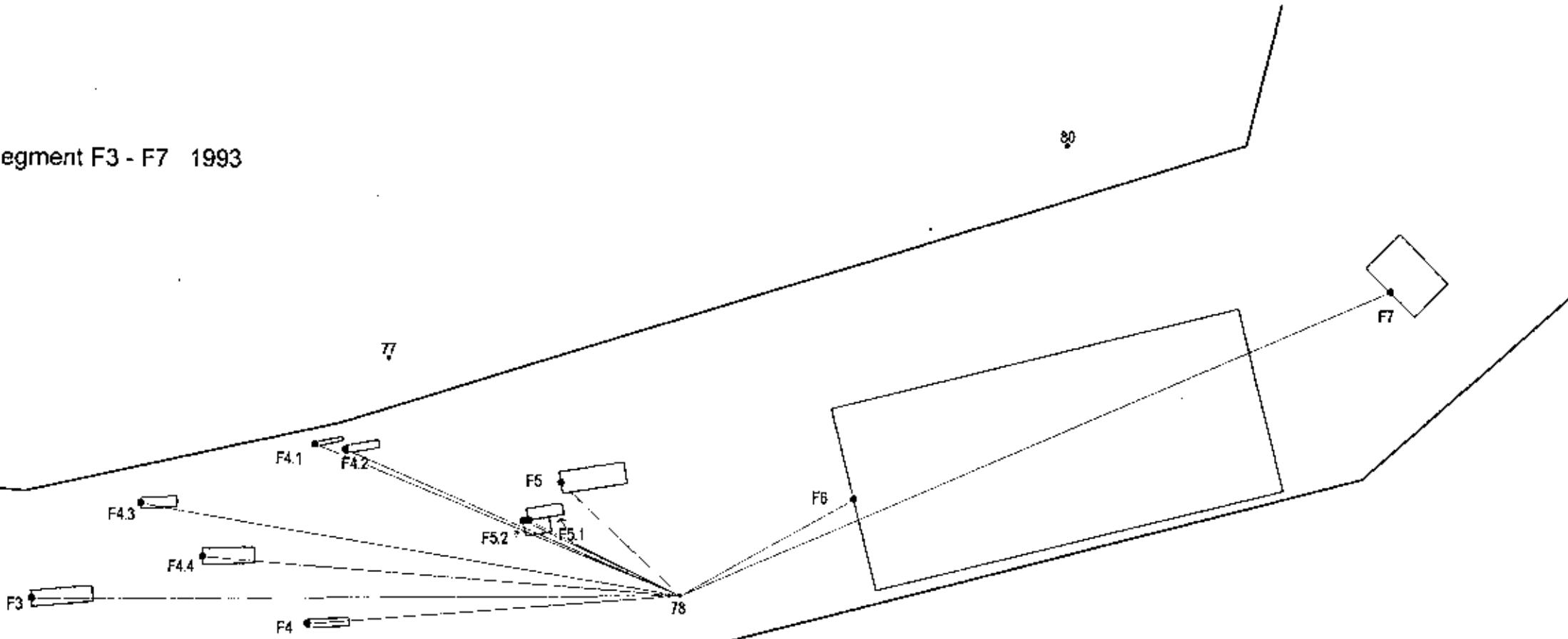


Segment F11 - F15 1993





Segment F3 - F7 1993



- Plant Stands F2, F11-F15
  - Refpts6.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stand B15e
  - Plant Stands C
  - Plant Stands E,F
  - Plant Stands E1-E5
  - Plant Stands - G,H1
  - Plant Stands H2-H3
  - Plant Stands I
  - Plant Stands J
  - Plant Stands J9-J11
  - Plant Stands K,L
  - Plant Stands K11-K20,K29-K30
  - Plant Stands K37-K44
- San Marcos River
- ~ Streets
  - ~ Structures
  - ~ River

Segment F8, F8d 1994

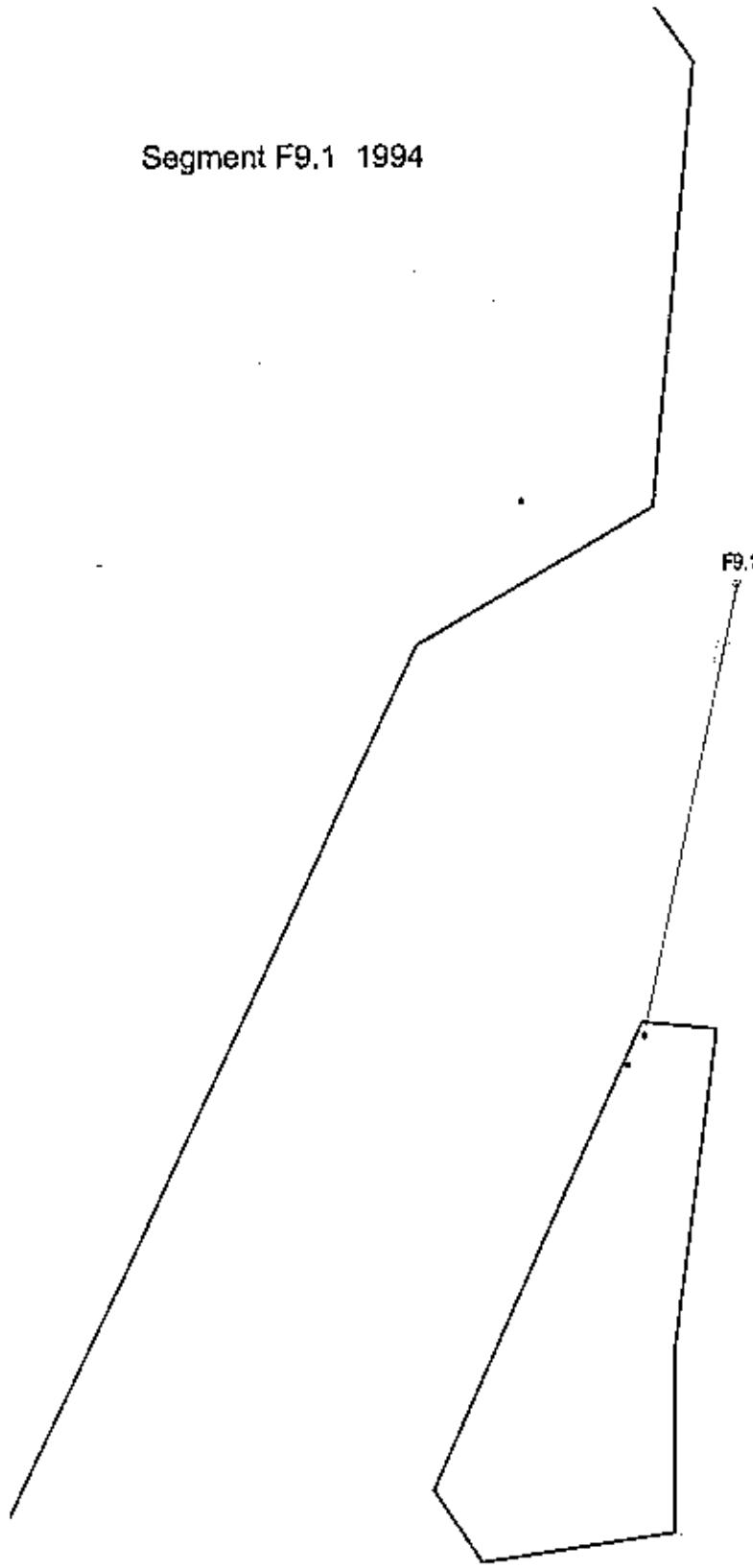
- Repts&shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands C
  - Plant Stands E,F
  - Plant Stand E6,3
  - Plant Stands G,H0a
  - Plant Stands H2-H2b
  - Plant Stands I,J
  - Plant Stands J9-J11
  - Plant Stands K,L
  - Plant Stands K11.2-K20,K29-K30,K37-K45
- San Marcos River
- ~~~~ Streets
  - ~~~~ Structures
  - ~~~~ River

F8d F8



6 0 6 12 18 24 Meters

Segment F9.1 1994



F9.1

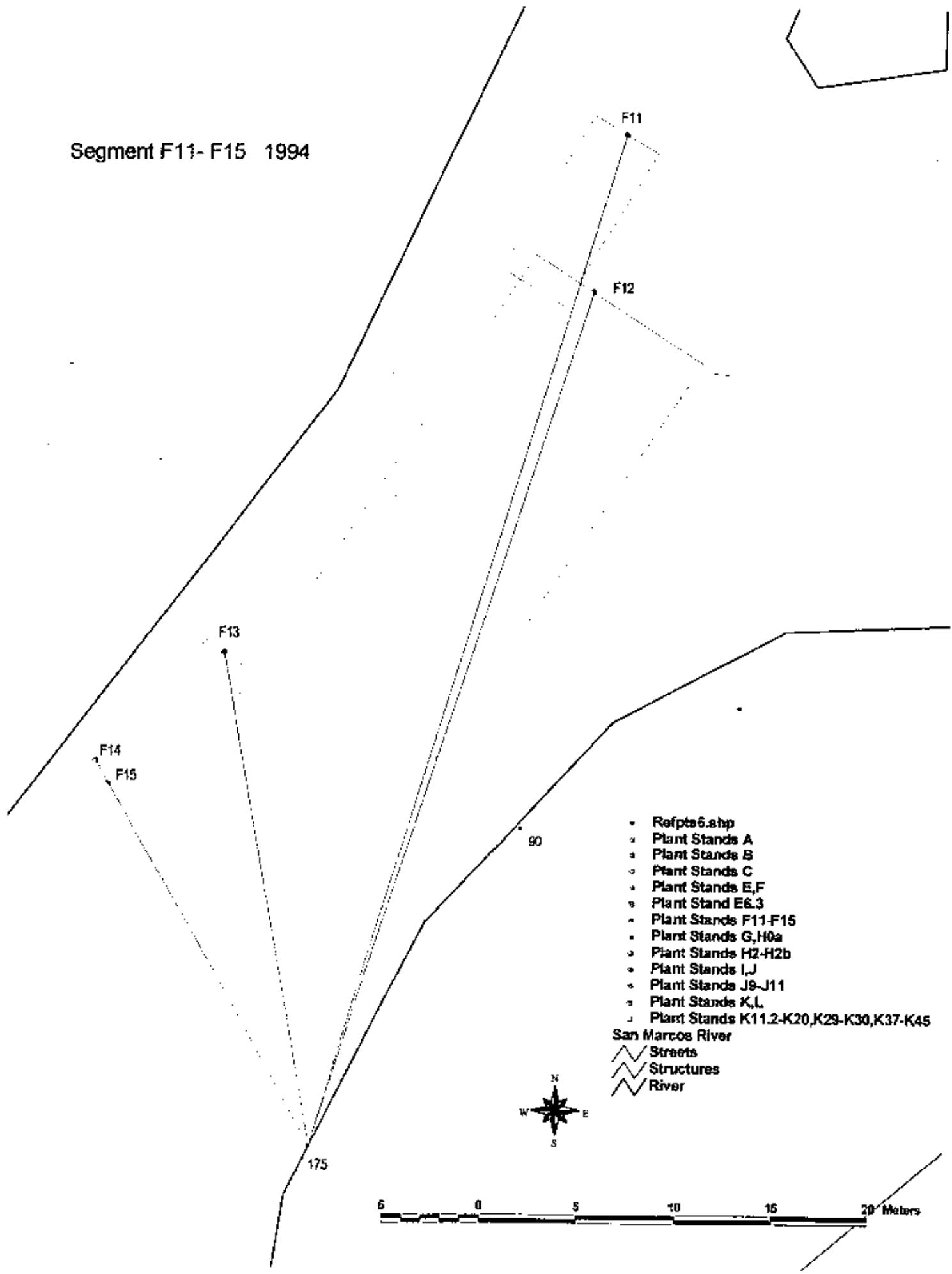
- Refpts5.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stand E6,3
- Plant Stands G,H2a
- Plant Stands H2-H2b
- Plant Stands I,J
- Plant Stands J9-J11
- Plant Stands K,L
- Plant Stands K11,2-K20,K29-K30,K37-K45
- San Marcos River
- Streets
- Structures
- River



F11

6 0 6 12 18 24 Meters

Segment F11- F15 1994

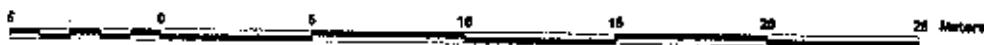


**Segment E14 - F2.2 1995**

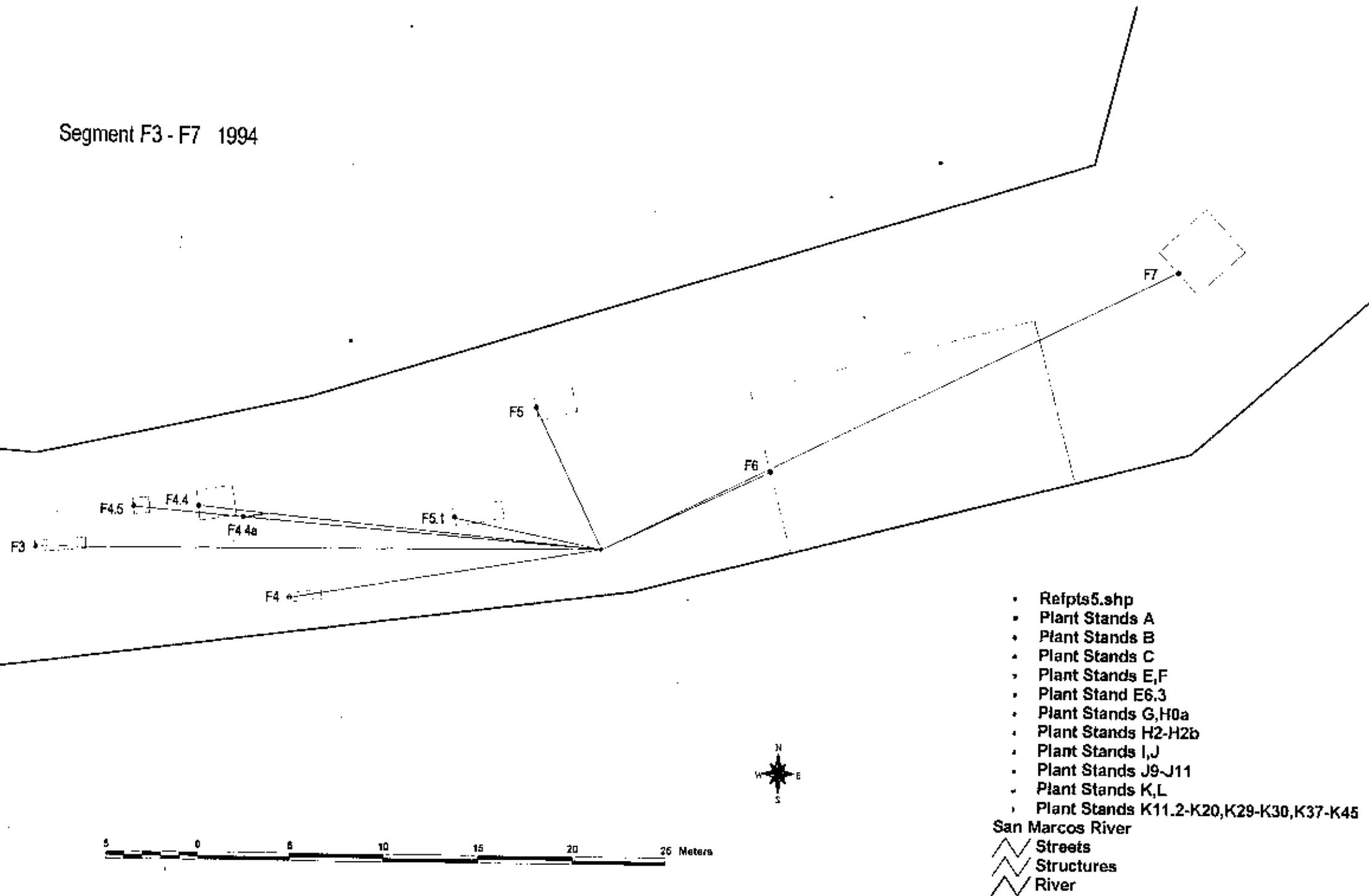
- Refpta6.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands F4.4,F8,F8d,F11-F15
- Plant Stands G
- Plant Stands H
- Plant Stands I,J
- Plant Stands J8-J11c
- Plant Stands K,L
- Plant Stands K11.2-K30,K37-K45
- Plant Stand K30

San Marcos River

- ~~ Streets
- ~~~~ Structures
- ~~~~~ River



Segment F3 - F7 1994



## Segment F8,F8d 1995

- Refpts8.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands F4,4,F8,F8d,F11-F15
- Plant Stands G
- Plant Stands H
- Plant Stands I,J
- Plant Stands J8-J11c
- Plant Stands K,L
- Plant Stands K11,2-K30,K37-K45
- Plant Stand K30

### San Marcos River

- ~~~~ Streets
- ~~~~ Structures
- ~~~~ River

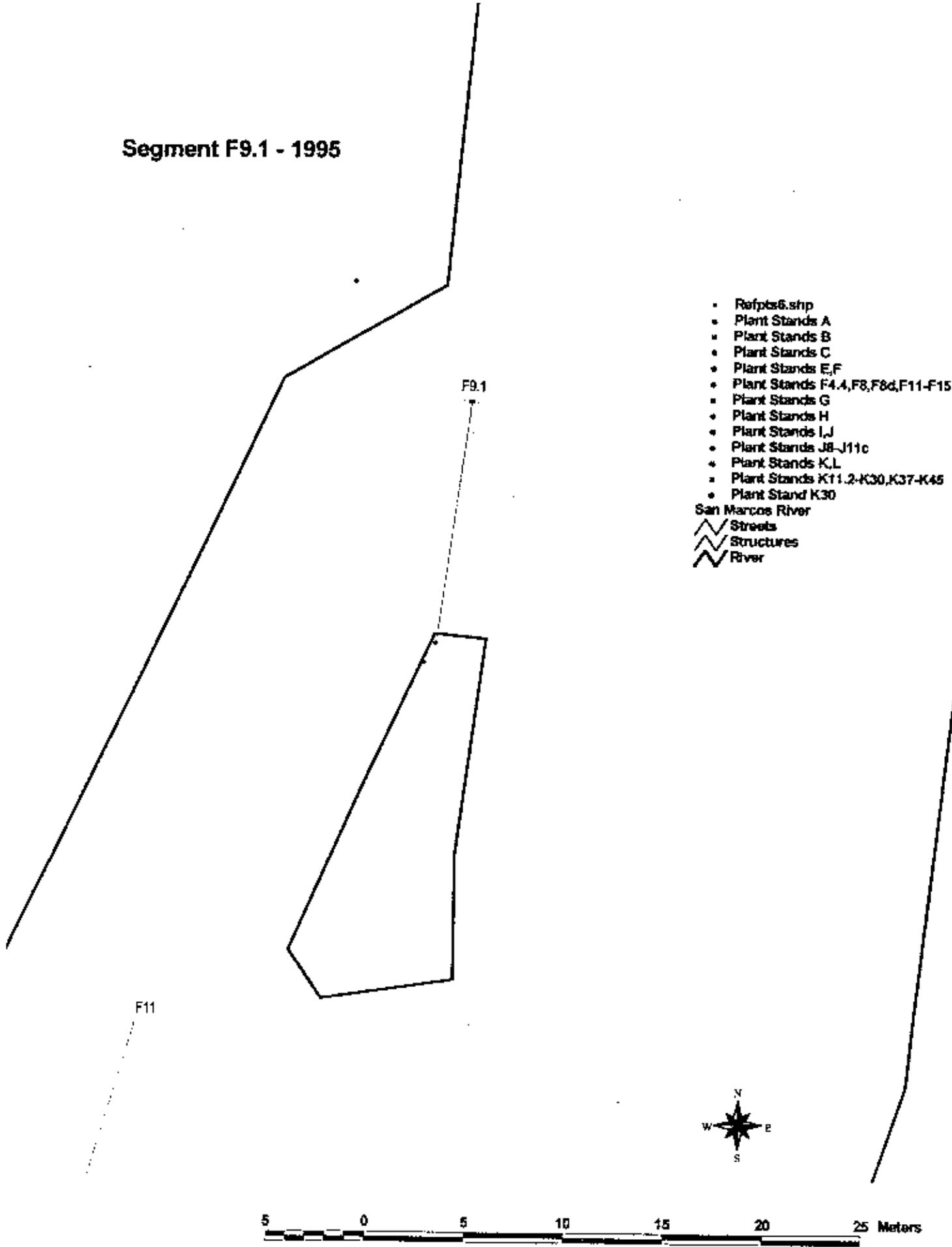
F8d

F8

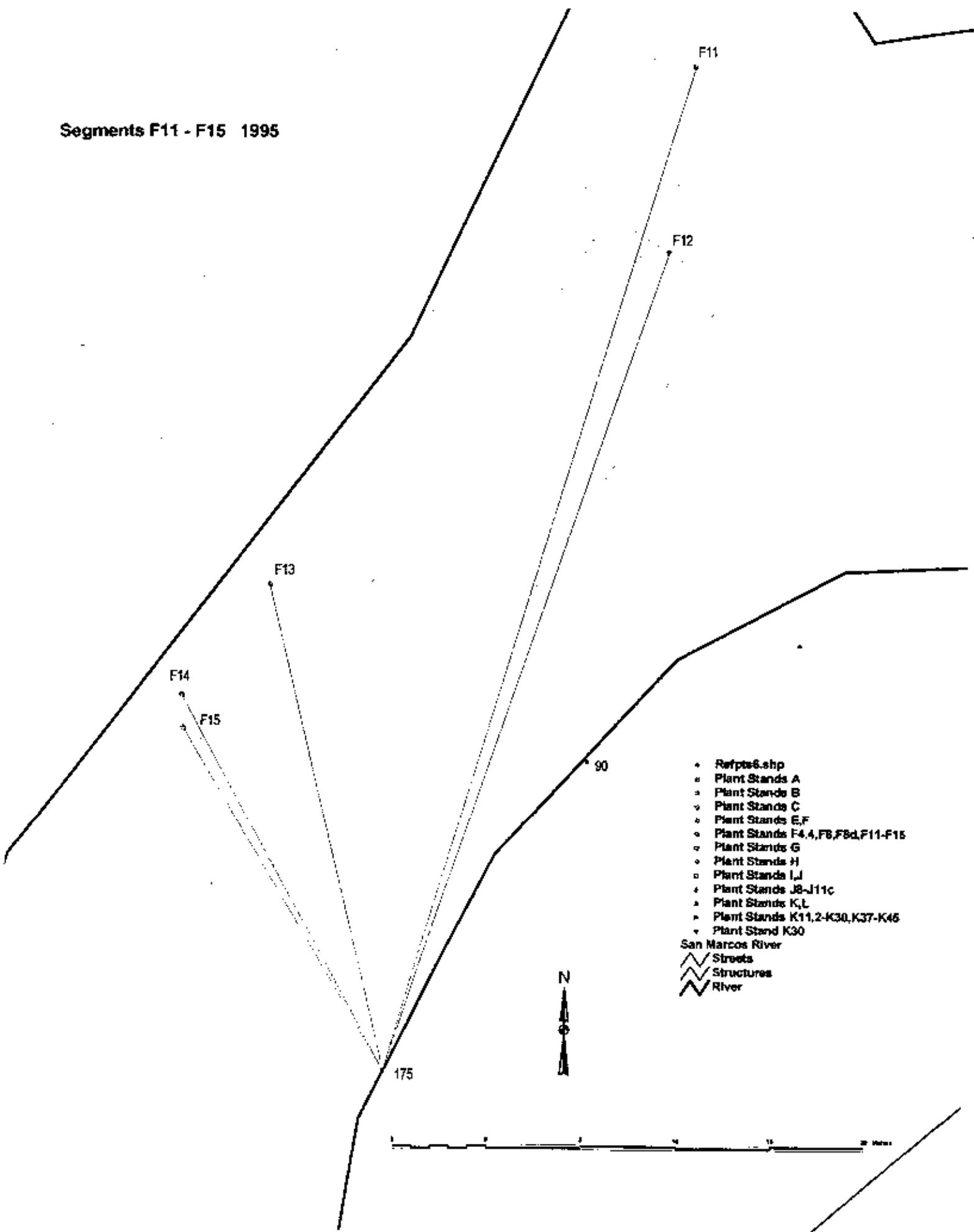


5 10 15 20 25 Meters

## Segment F9.1 - 1995



Segments F11 - F15 1995



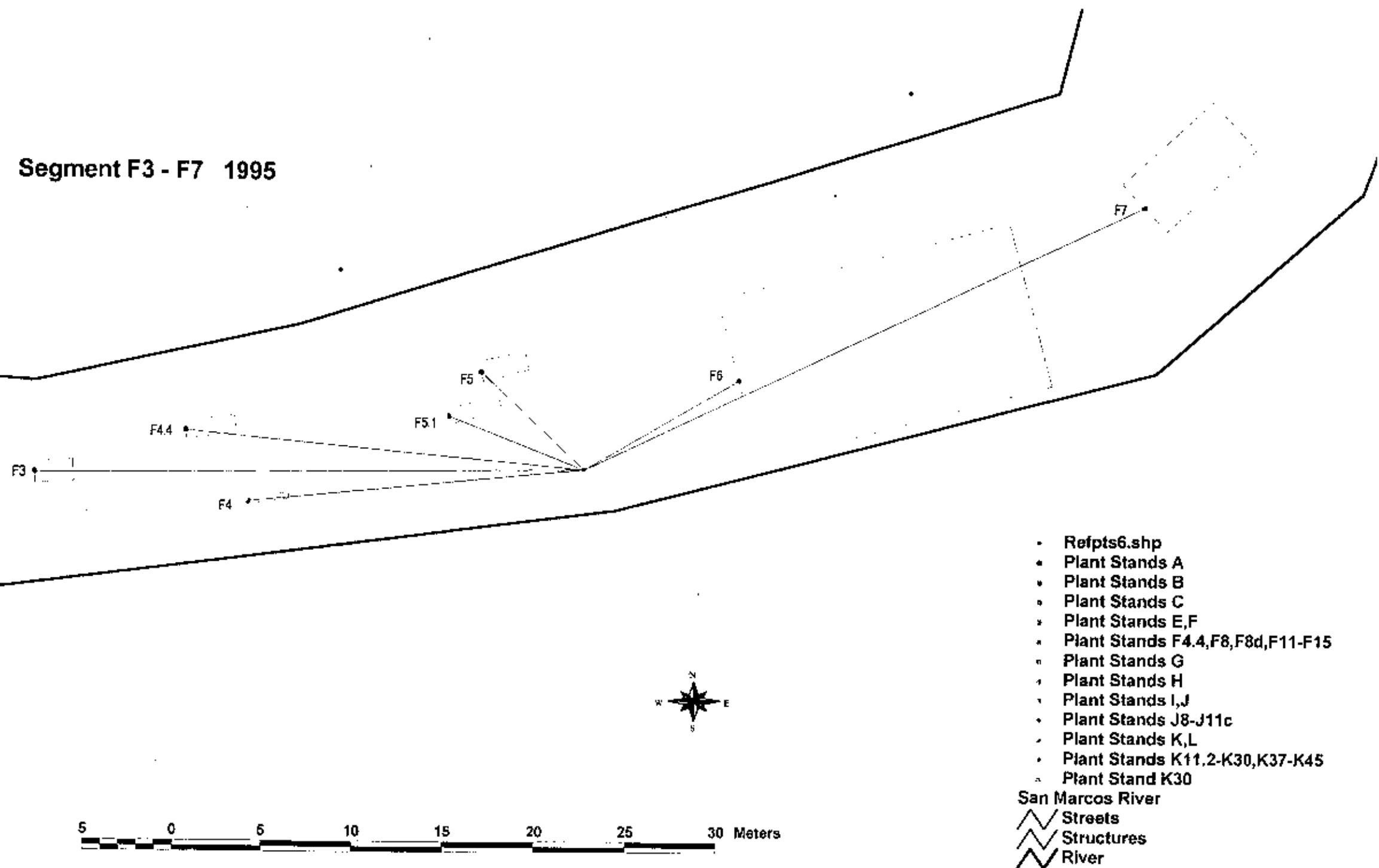
Segment E14, F2 1996

- Rulpts 3.vhp
  - Plant Stands A
  - Plant Stands B
  - Plant Stand B3.14
  - Plant Stands B11.6, B11.9, B11.25
  - Plant Stand B10.3
  - Plant Stands C
  - Plant Stands C5b,C5.5,C9
  - Plant Stands D,H
  - Plant Stands E,F
  - Plant Stands F11-F15
  - Plant Stands I,J
  - Plant Stands J8-J11c,J13,J19a,J21
  - Plant Stands K,L
  - Plant Stand K10.3
  - Plant Stands K14-K20, K29, K37-K45
- San Marcos River
- Streets
  - Structures
  - River



5 0 5 10 15 20 25 Meters

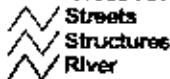
## Segment F3 - F7 1995



Segment F8, F8d 1996

- Refpts6.shp
- Plant Stands B
- Plant Stands C
- Plant Stands G,H
- Plant Stands E,F
- Plant Stands F11-F15
- Plant Stands I,J
- Plant Stands J8-J11c,J13,J13a,J21
- Plant Stands K,L
- Plant Stand K10.3
- Plant Stands K14-K20, K29, K37-K45

San Marcos River



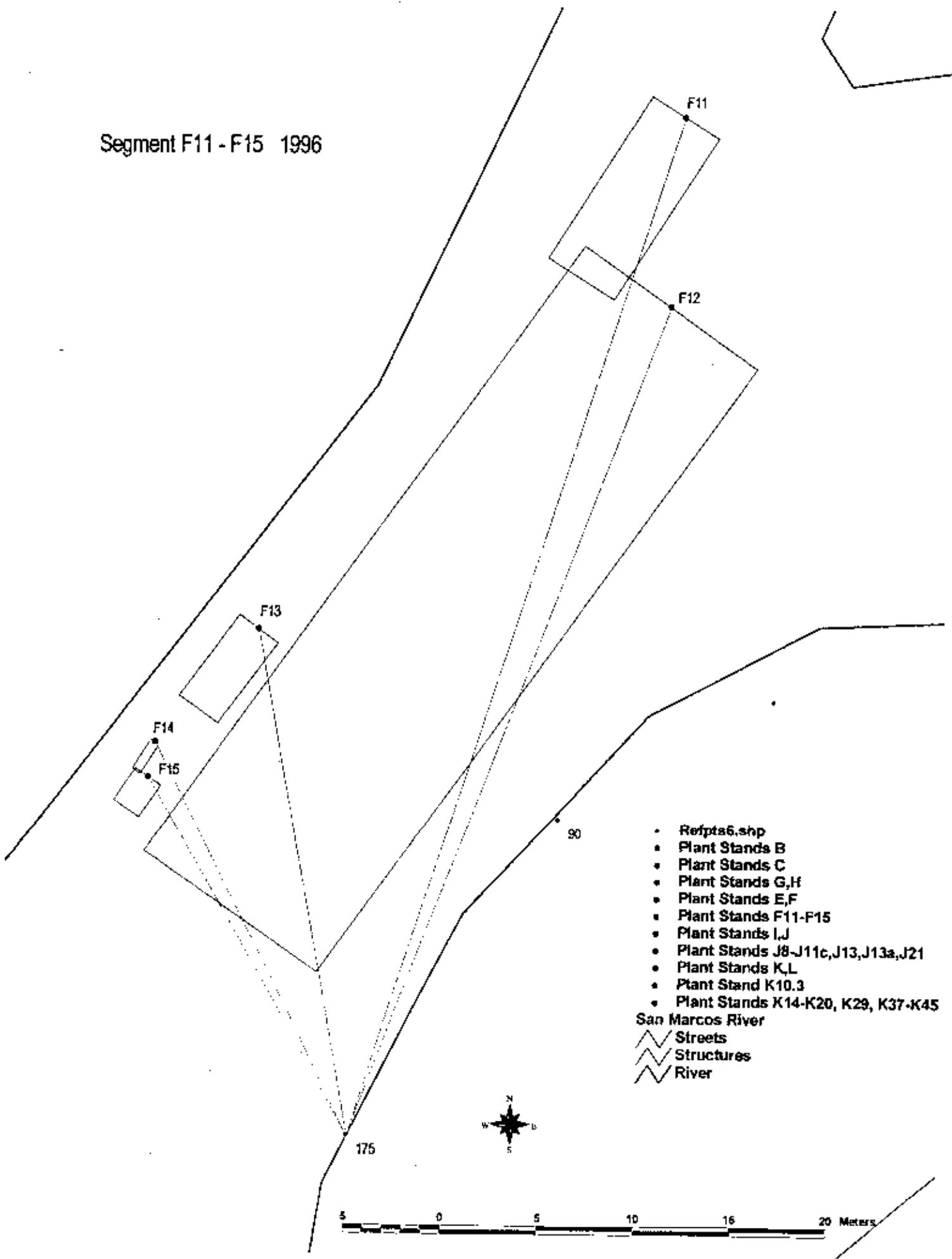
F8d

F8

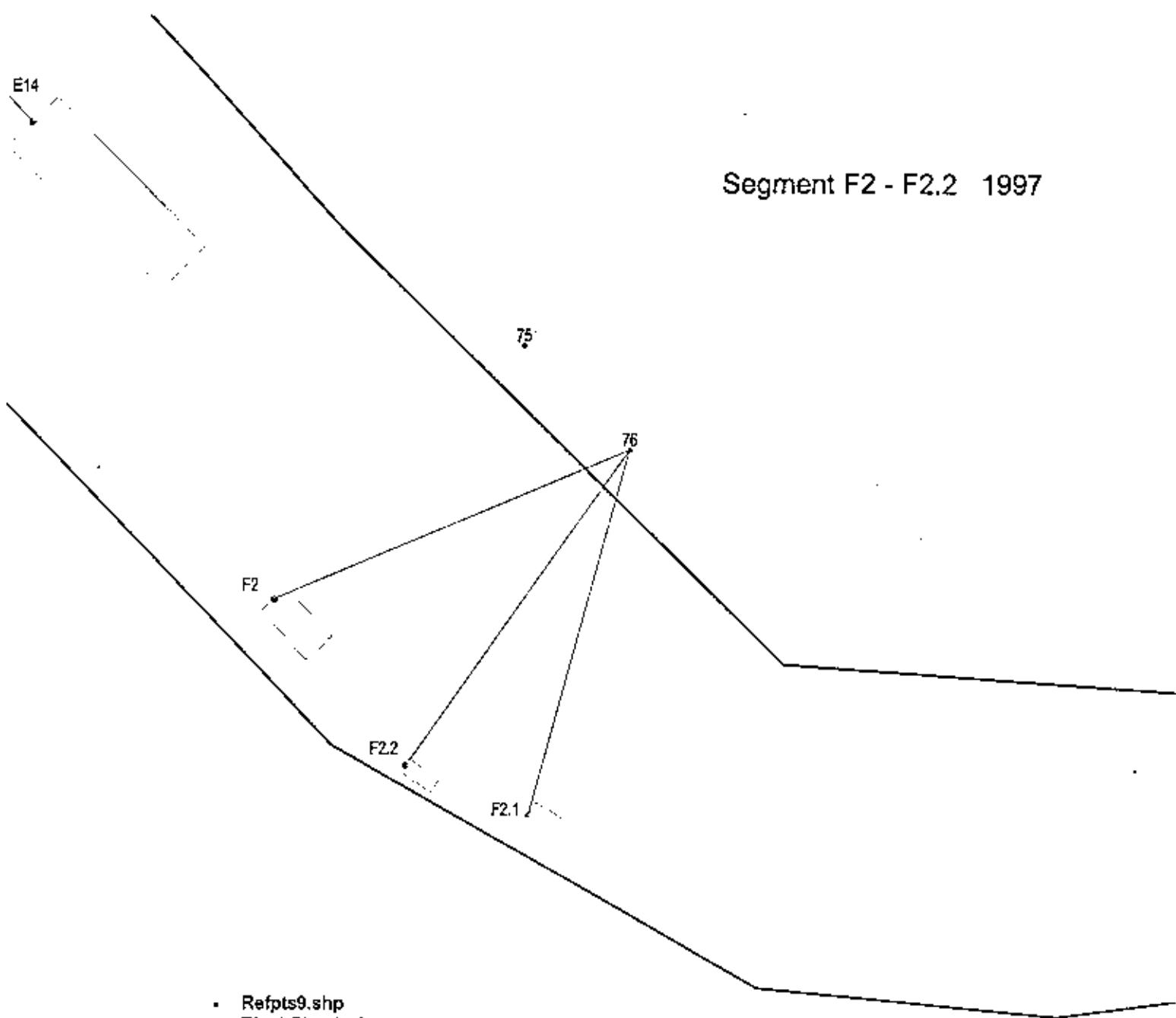


5 0 5 10 15 20 25 Meters

Segment F11 - F15 1996



Segment F2 - F2.2 1997



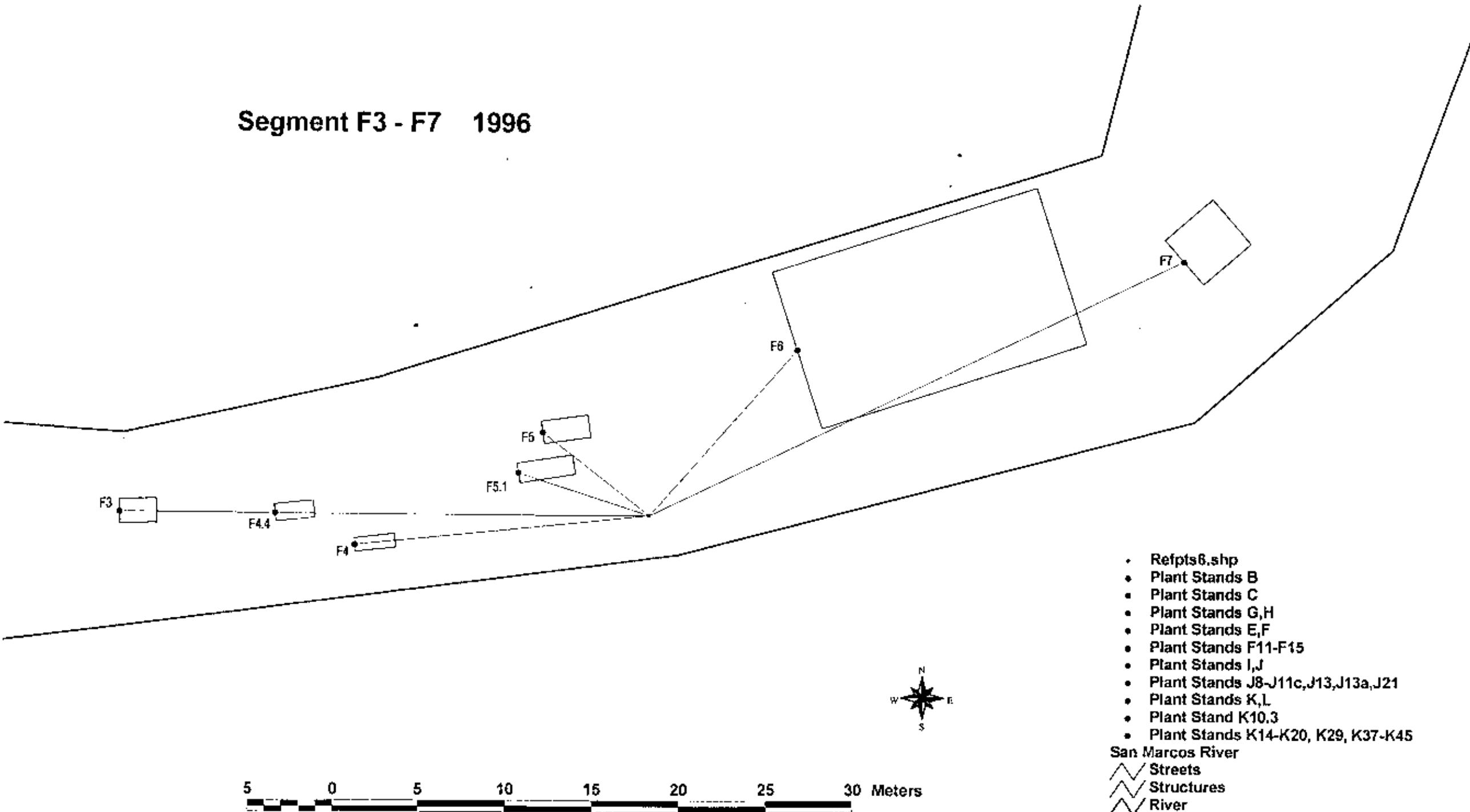
- Refpts9.shp
- Plant Stands A
- Segment B
- Plant Stands B1.1+
- Plant Stands C
- Plant Stands C2a,C5b,C5.5,C7,C9-C9d
- Plant Stands E,F
- Plant Stands E0, E14
- Plant Stands F3-F5.1,F7,F11-F15
- Plant Stands G,H
- Plant Stands G2-G3
- Plant Stands J
- Plant Stands J1a,J7.2-J11
- Plant Stands K,L
- Plant Stands K18.1-K20, K37-K45

San Marcos River

- ~ Streets
- ~ Structures
- ~ River



**Segment F3 - F7 1996**



Segment F8 - 1997

84

82

F8

J1

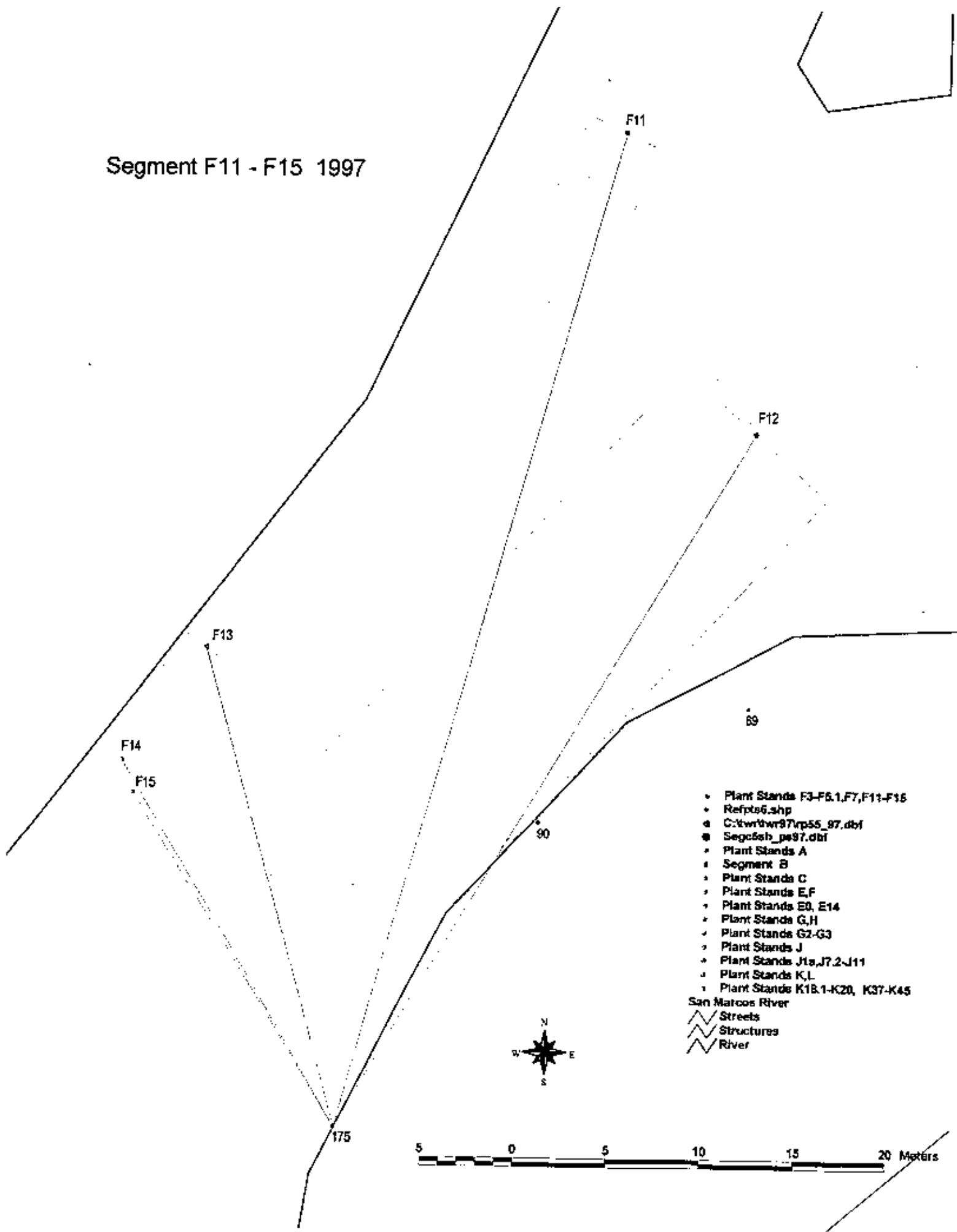
F7

5 0 5 10 15 20 Meters

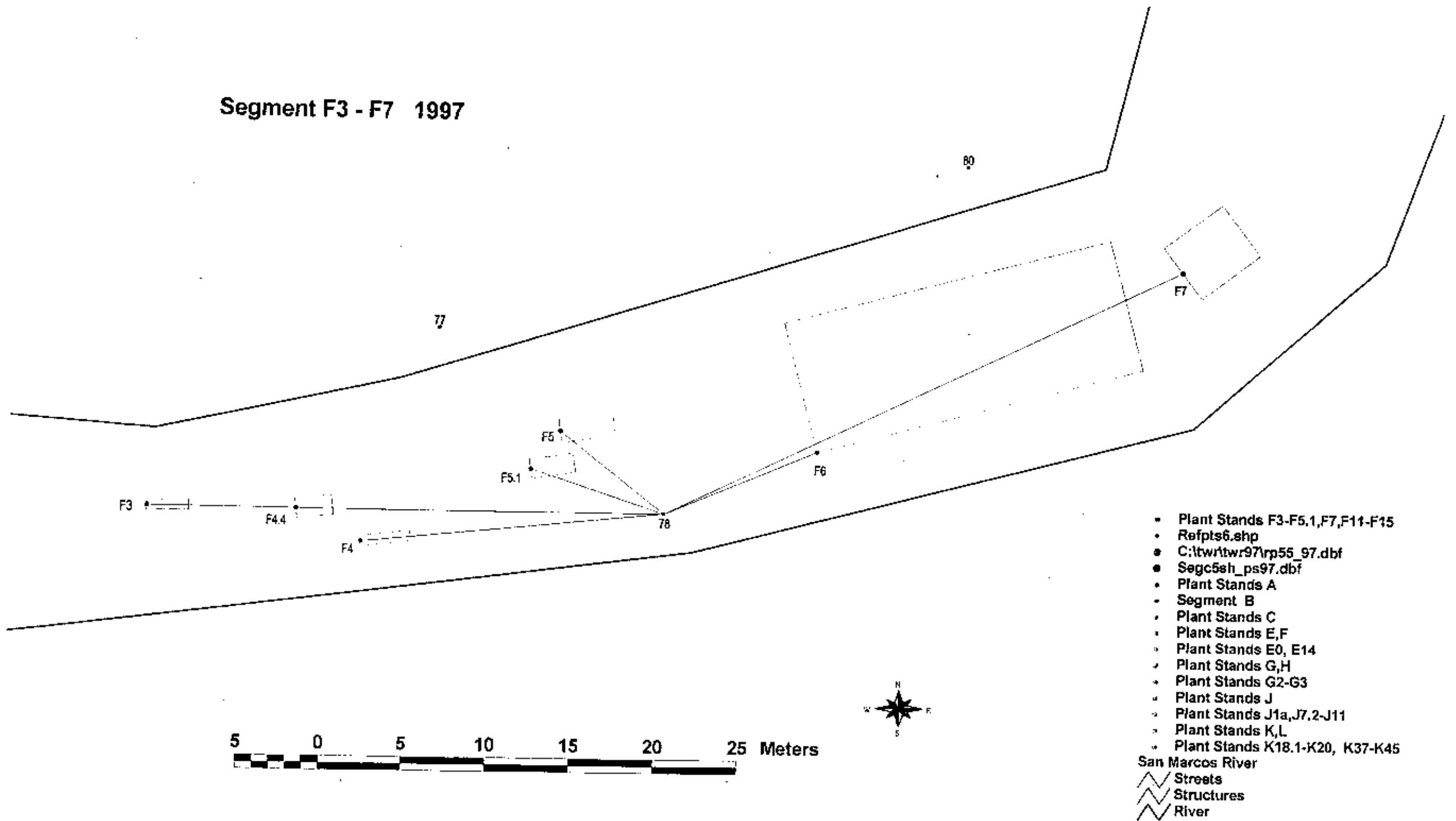


- Refpts9.shp
  - △ Plant Stands A
  - ◆ Segment B
  - ▽ Plant Stands B1.1+
  - Plant Stands C
  - ▼ Plant Stands C2a,C5b,C5.5,C7,C9-C9d
  - ◆ Plant Stands E,F
  - ▼ Plant Stands E0,E14
  - Plant Stands F3-F5.1,F7,F11-F15
  - Plant Stands G,H
  - Plant Stands G2-G3
  - Plant Stands J
  - Plant Stands J1a,J7.2-J11
  - Plant Stands K,L
  - Plant Stands K18.1-K20, K37-K45
- San Marcos River
- \\\\ Streets
  - \\\\ Structures
  - \\\\ River

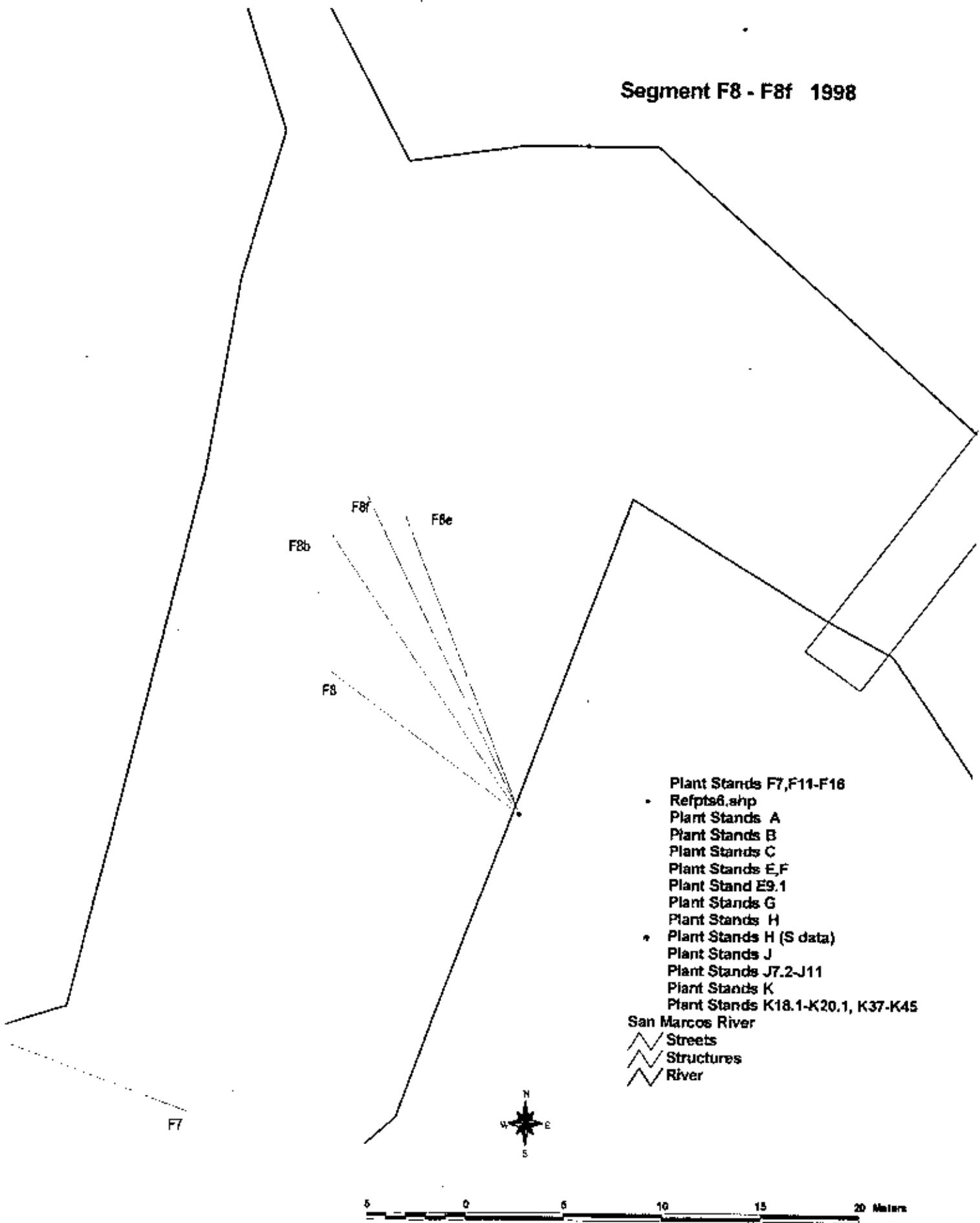
Segment F11 - F15 1997



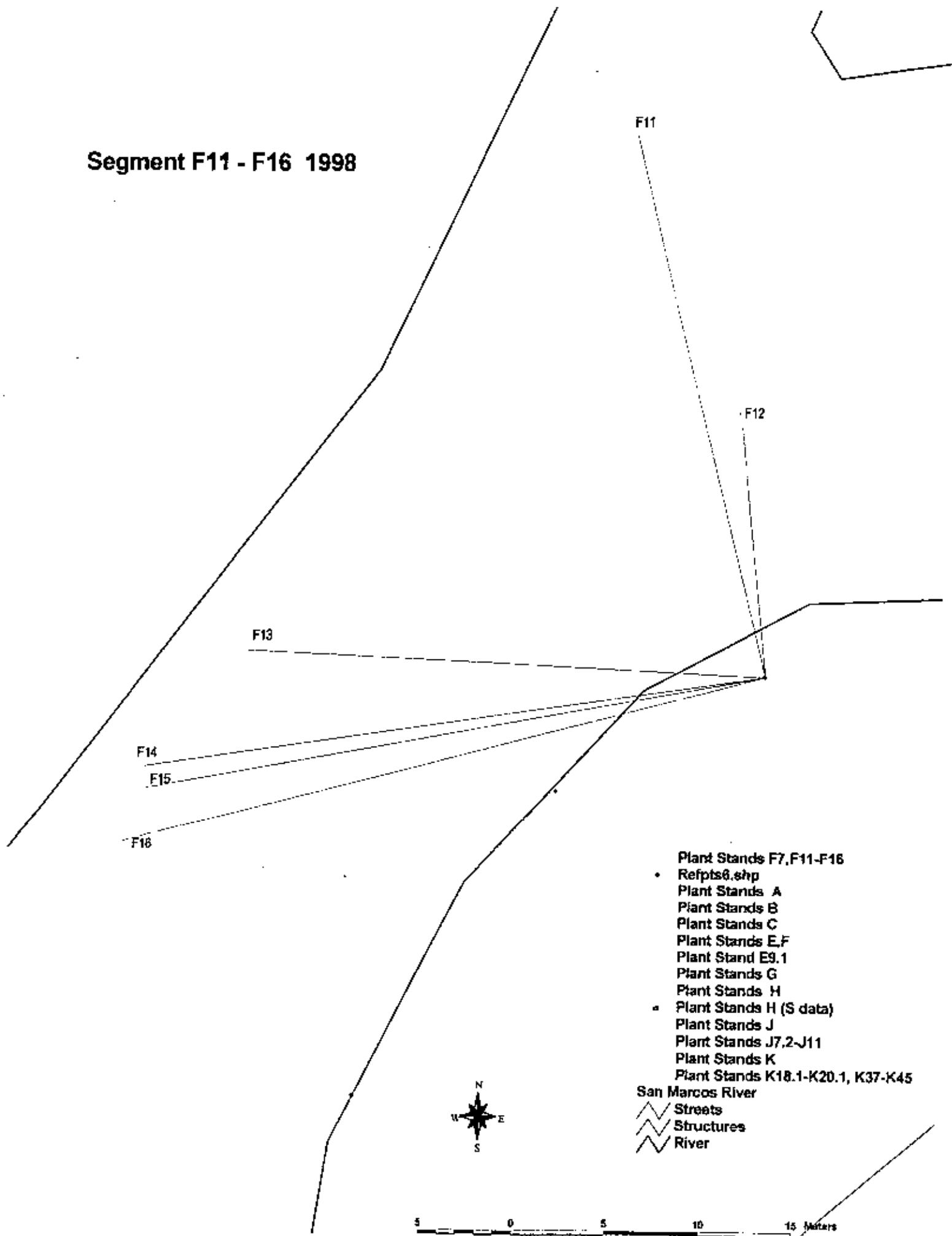
## Segment F3 - F7 1997



### Segment F8 - F8f 1998



## Segment F11 - F16 1998



E11

69

72

## Segment F2 - F2.2 1998

E14.1

E14

75

76

F2.1

F2.2

F2.1

Refpts9.shp  
Plant Stands A  
Plant Stand A0.20  
Plant Stands B  
Plant Stands C  
Plant Stands E,F  
Plant Stand E9.1  
Plant Stands F7,F11-F16  
Plant Stands G  
Plant Stands H  
Plant Stands J  
Plant Stands J7.2-J11  
Plant Stands K  
Plant Stands K18.1-K20.1, K37-K45

San Marcos River

Streets

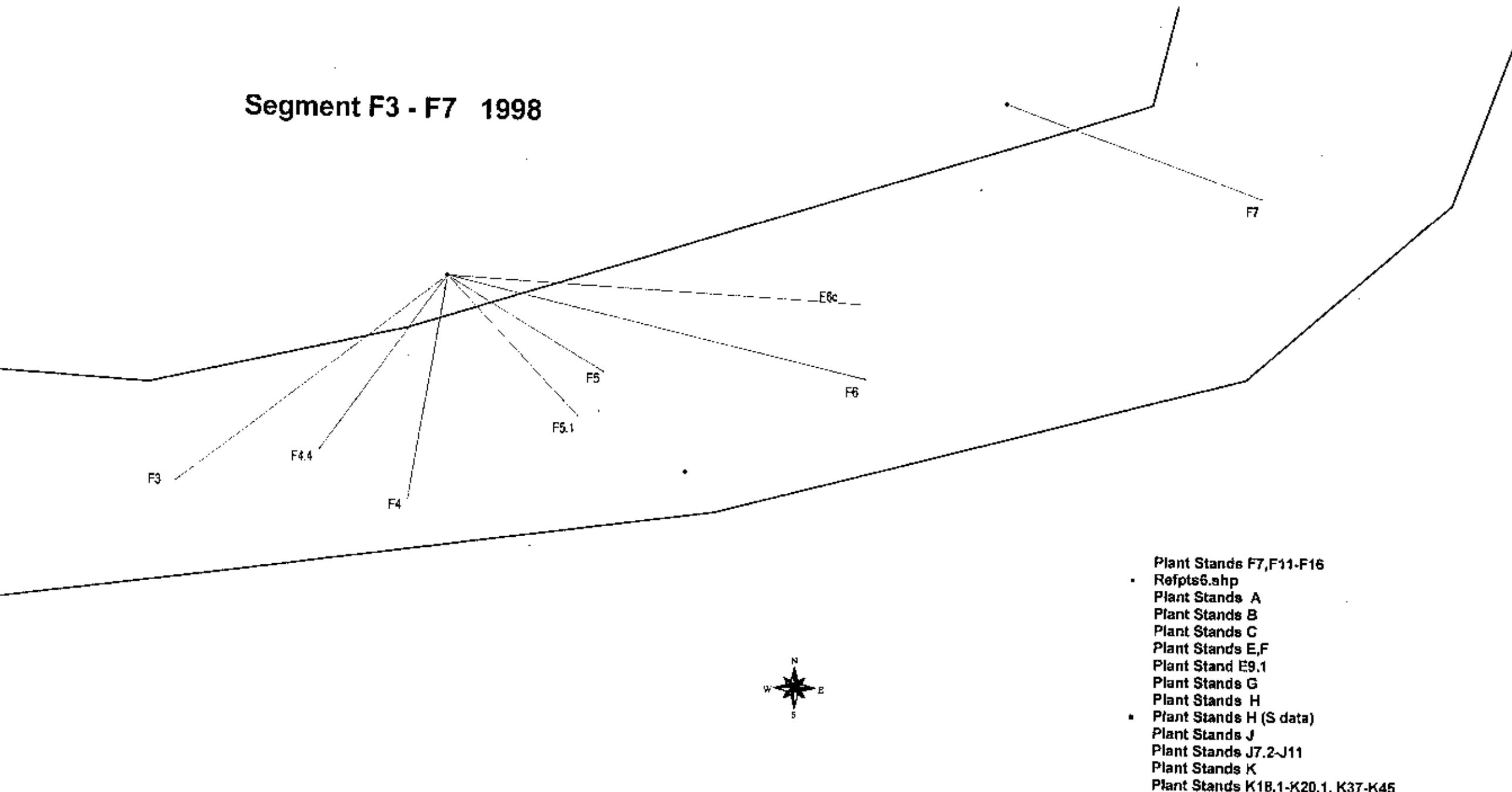
Structures

River



5 0 5 10 15 20 25 Meters

## Segment F3 - F7 1998



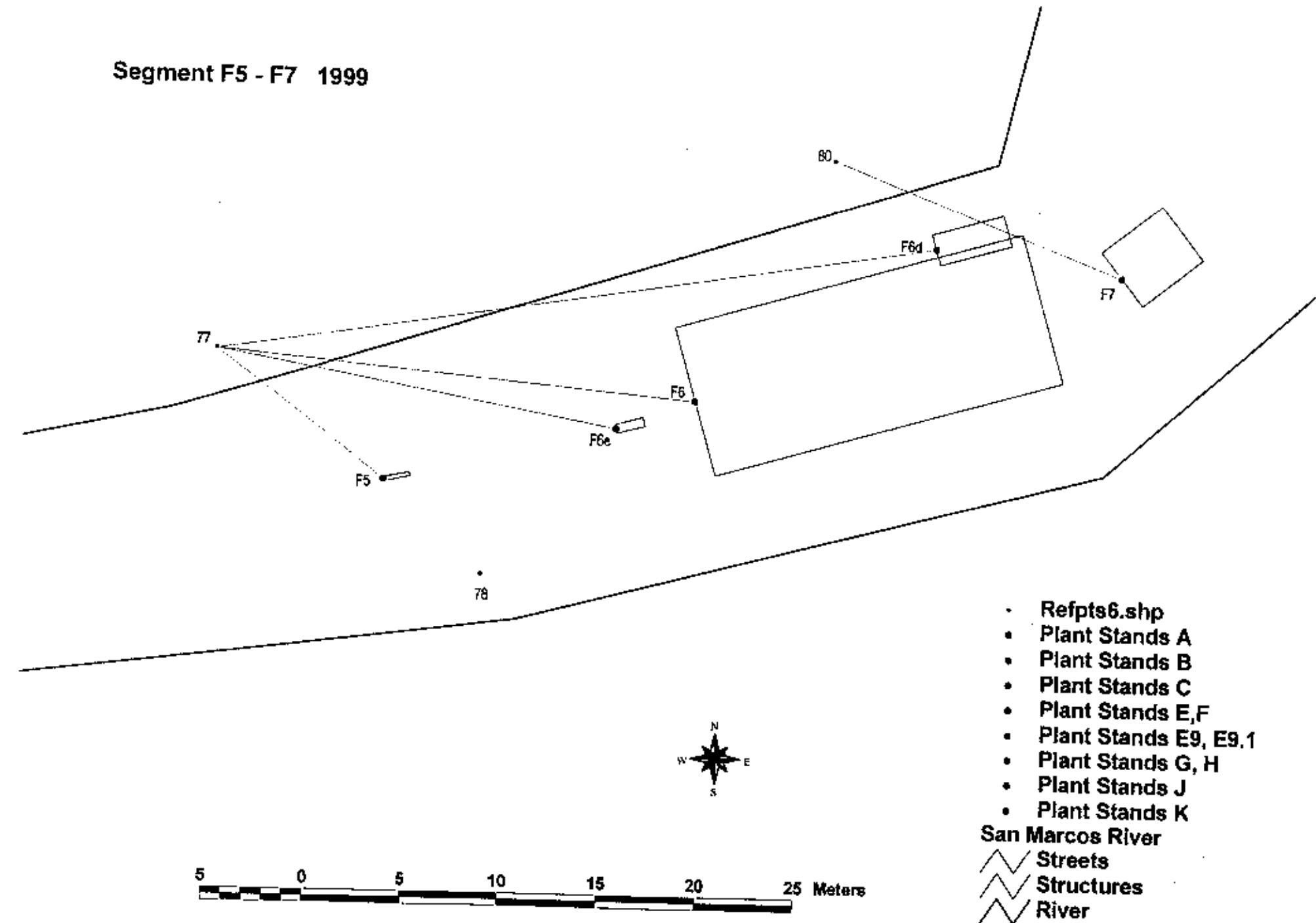
### Plant Stands F7,F11-F16

- Refpts6.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stand E9.1
- Plant Stands G
- Plant Stands H
- Plant Stands H (S data)
- Plant Stands J
- Plant Stands J7.2-J11
- Plant Stands K
- Plant Stands K18.1-K20.1, K37-K45

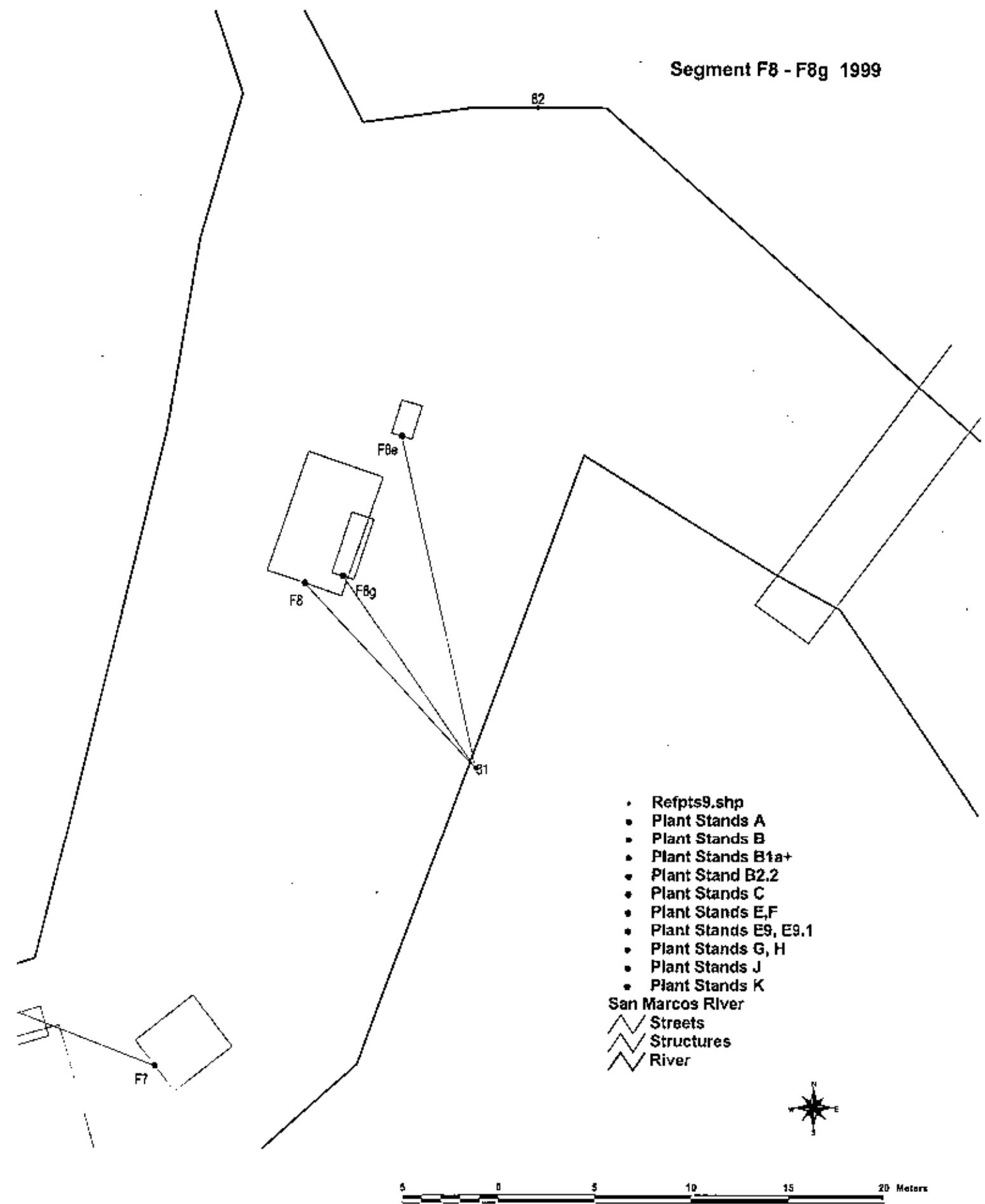
### San Marcos River

- △ Streets
- △ Structures
- △ River

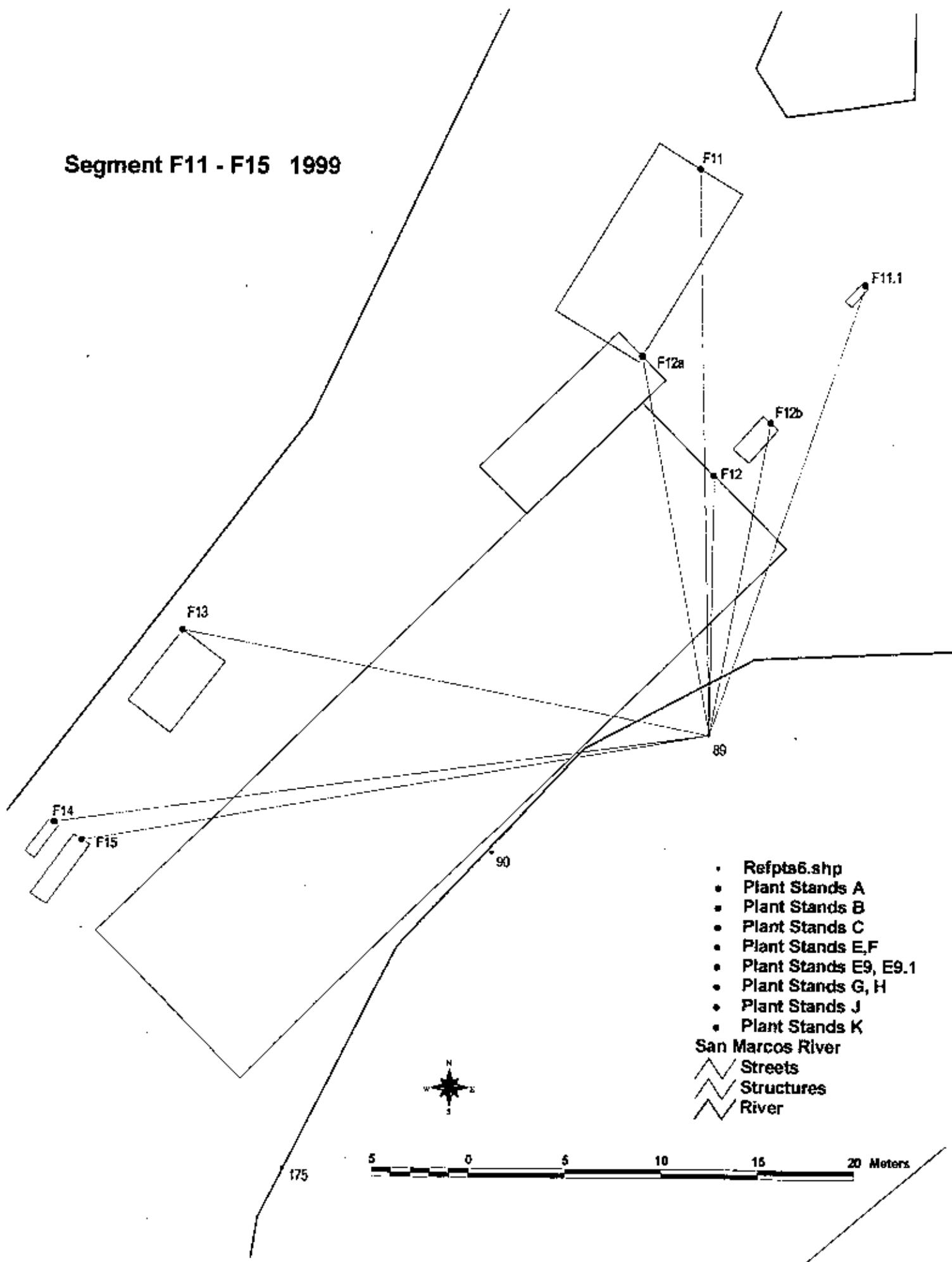
**Segment F5 - F7 1999**



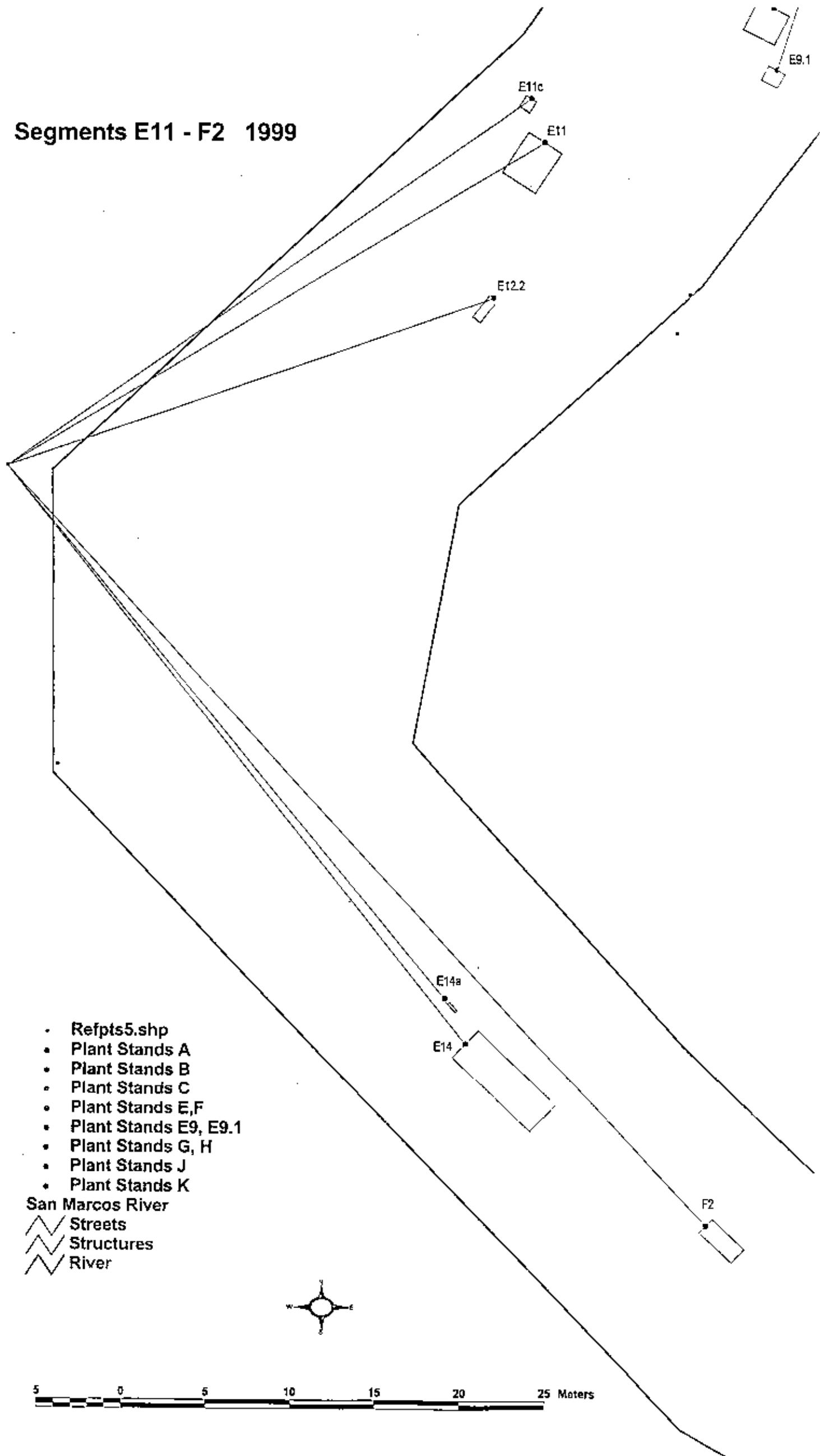
**Segment F8 - F8g 1999**



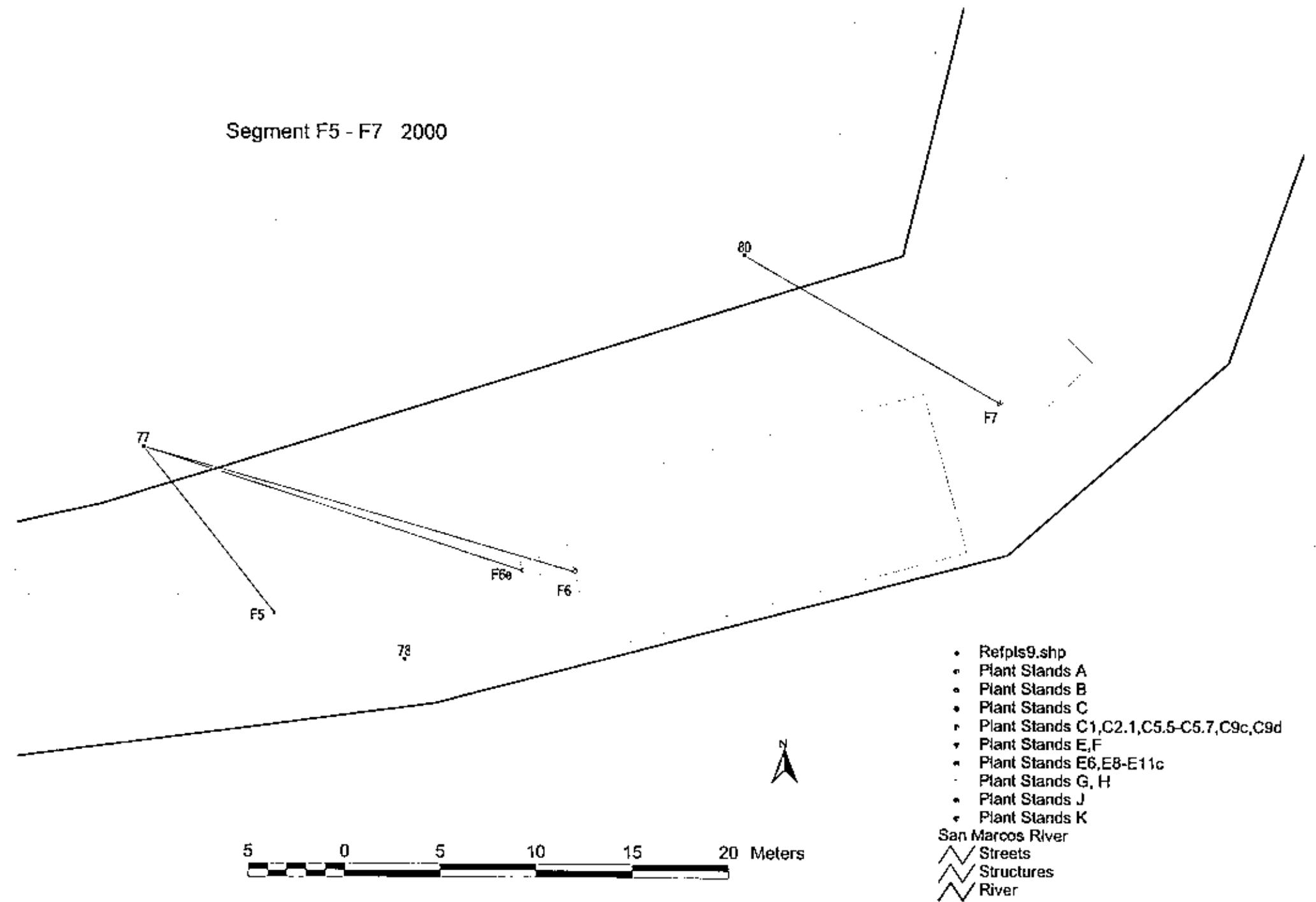
**Segment F11 - F15 1999**



## Segments E11 - F2 1999



Segment F5 - F7 2000



Segment F8,F8f 2000

F8

F8

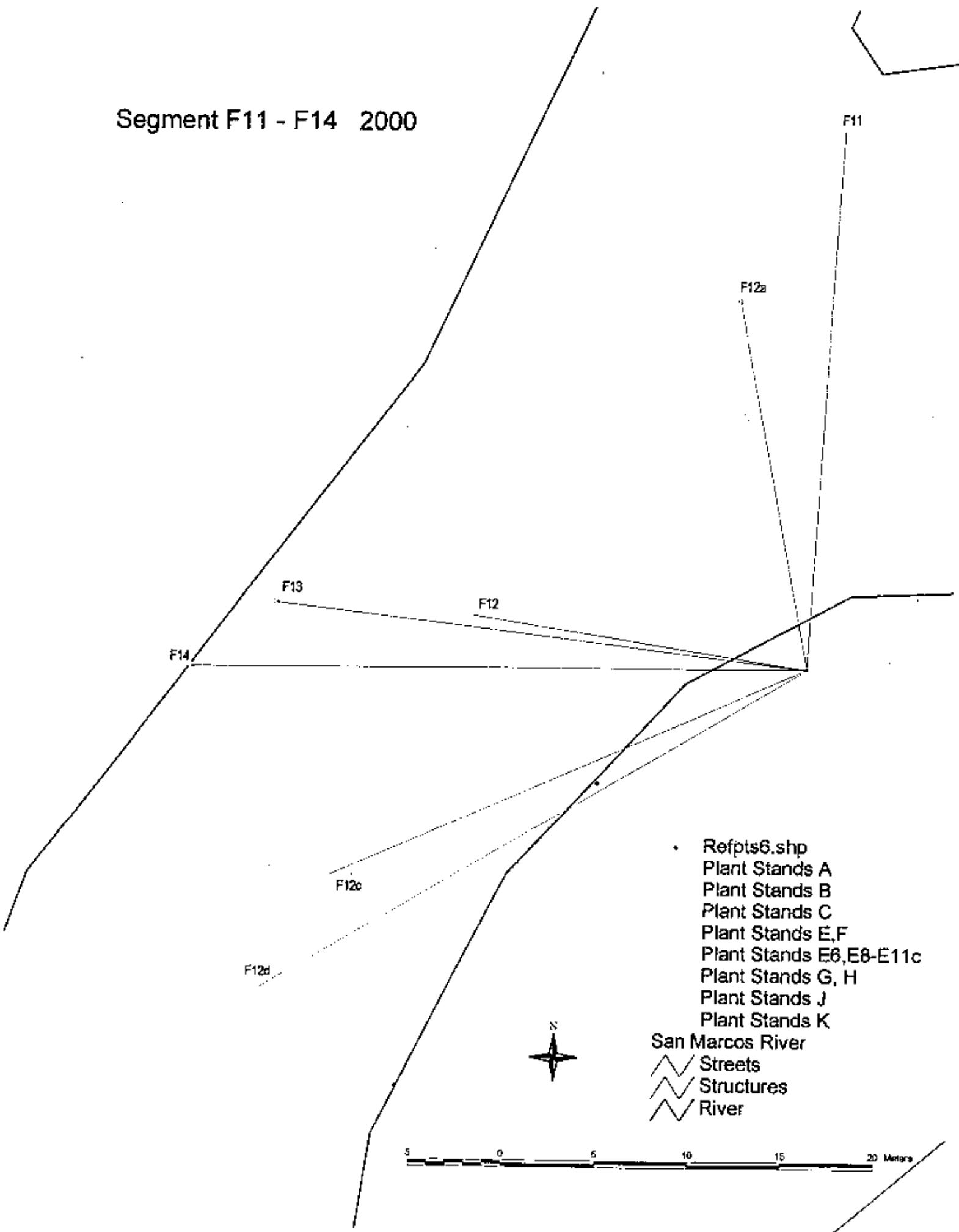
F7

- Refpts6.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands E6,E8-E11c
- Plant Stands G, H
- Plant Stands J
- Plant Stands K
- San Marcos River
- Streets
- Structures
- River

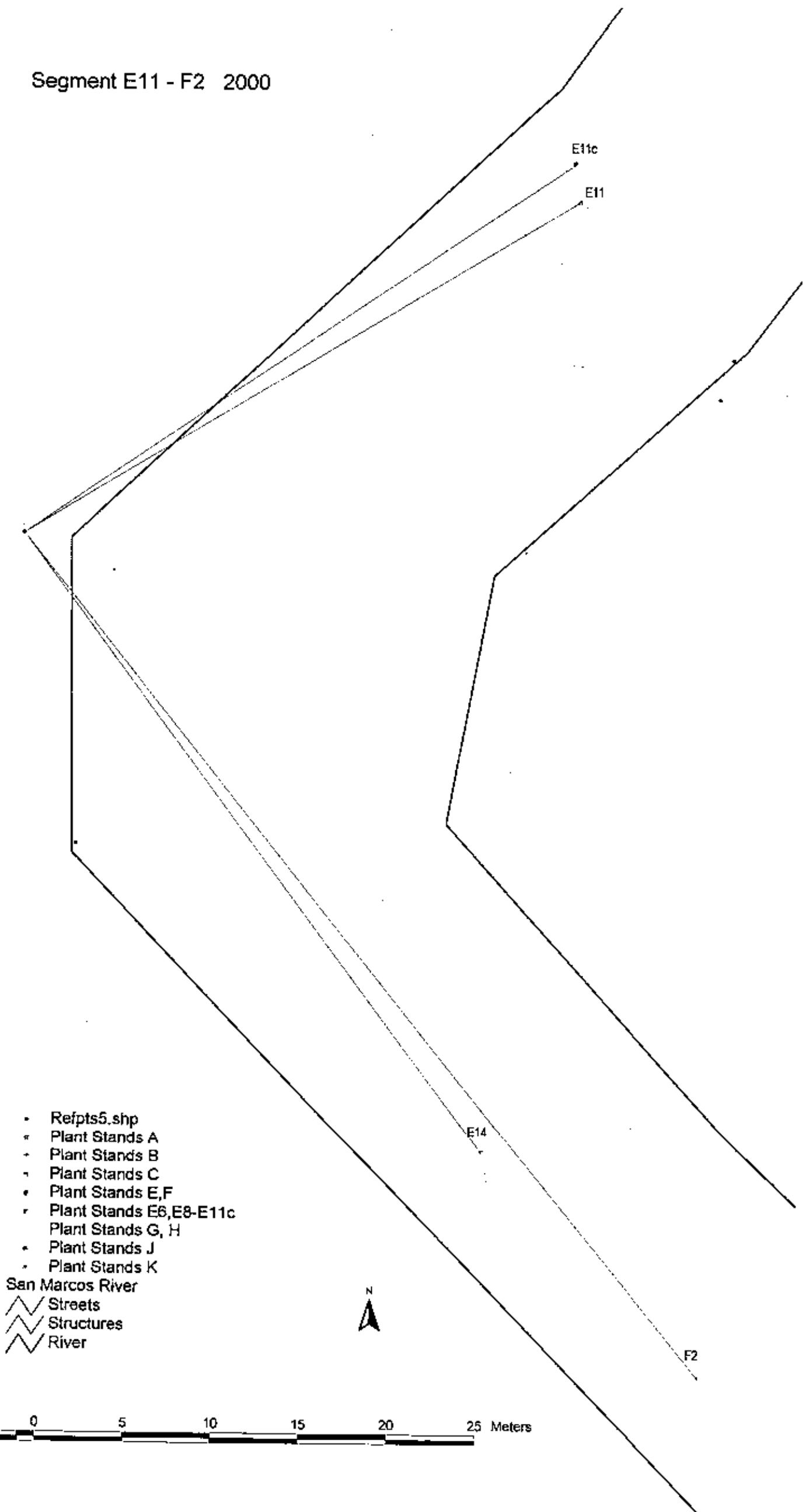


5 0 5 10 15 20 Meters

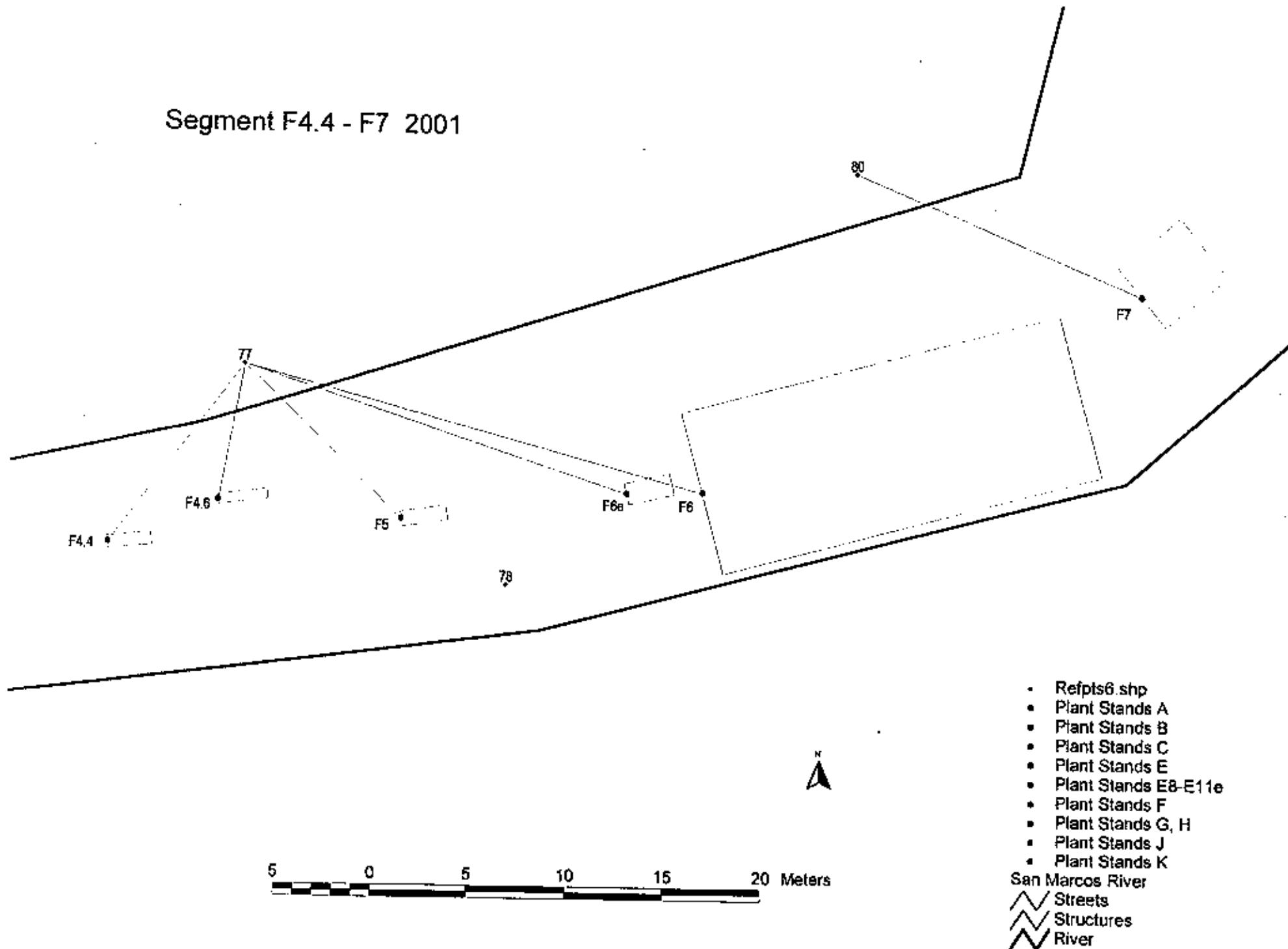
**Segment F11 - F14 2000**



Segment E11 - F2 2000

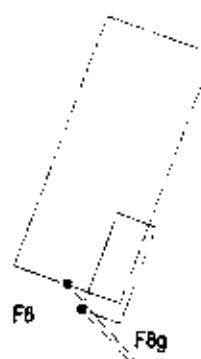


## Segment F4.4 - F7 2001



84

## Segment F8 , F8g 2001



81



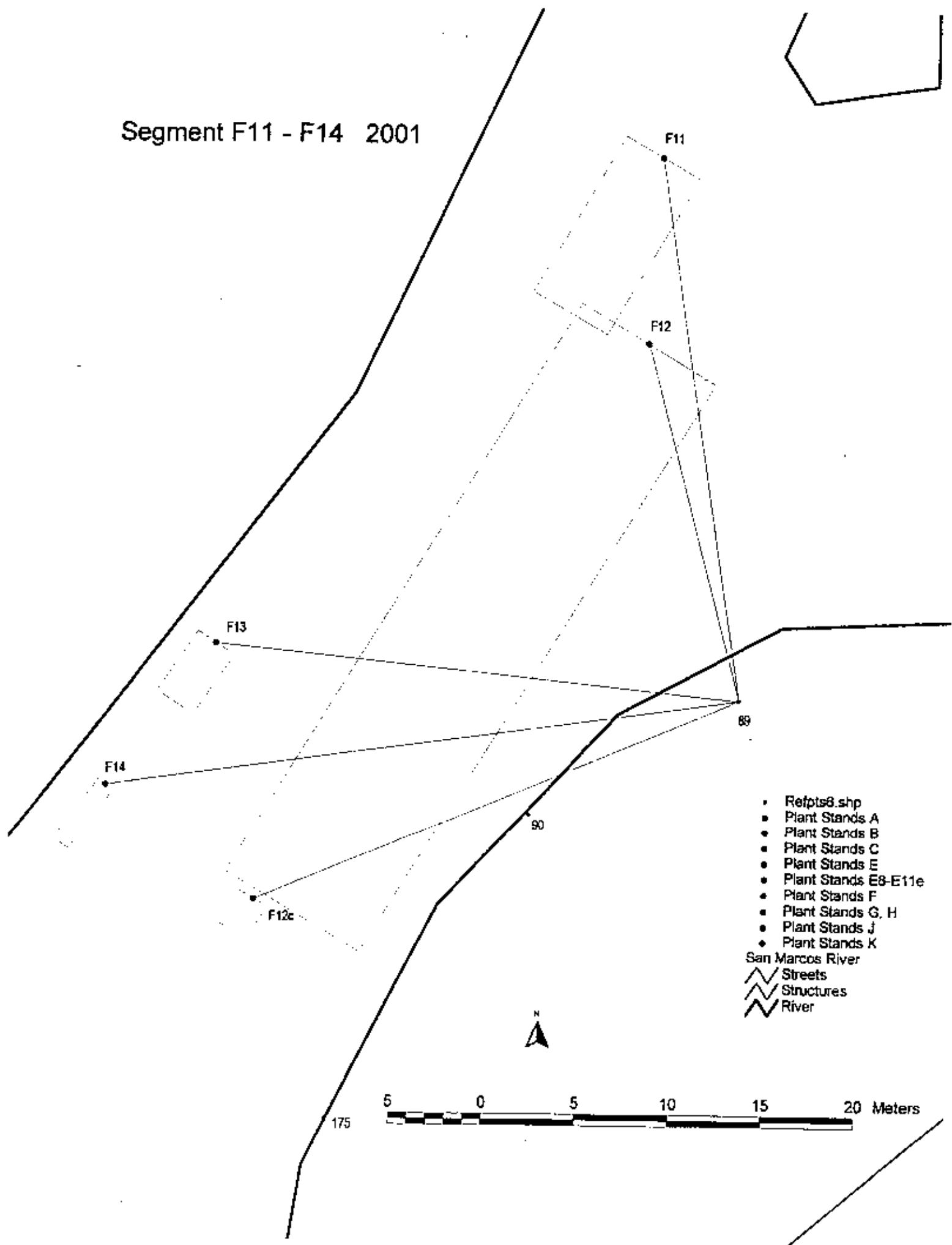
- Refpts6.shp
  - Plant Stands A
  - Plant Stands B
  - ▲ Plant Stands C
  - ◆ Plant Stands D
  - ▲ Plant Stands E
  - Plant Stands F
  - Plant Stands G, H
  - Plant Stands J
  - ▲ Plant Stands K
- San Marcos River  
Streets  
Structures  
River

F7

5 0 5 10 15 Meters

A horizontal scale bar at the bottom of the map, marked with numerical values 5, 0, 5, 10, and 15, followed by the word "Meters".

# Segment F11 - F14 2001

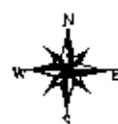


## Segment G1 - G3 1989

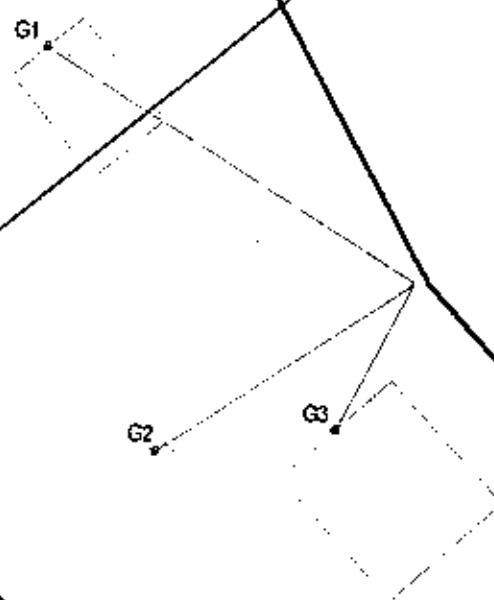
- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stand C3
- Plant Stands E,F
- Plant Stands E8a, E9-E13
- Plant Stands F2,F8-F12
- Plant Stand F10
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands X
- Plant Stands J
- Plant Stands J2,J4-J11,J23-J26
- Plant Stands J15-J19
- Plant Stands K,L
- Plant Stands K23, K24
- Plant Stands K27,K36,K38-K40,K42-K44
- Plant Stand M1

- Rp1989.shp
- Rpj1489.shp
- Rp171.shp

San Marcos River  
△/ Streets  
▽/ Structures  
~~/ River



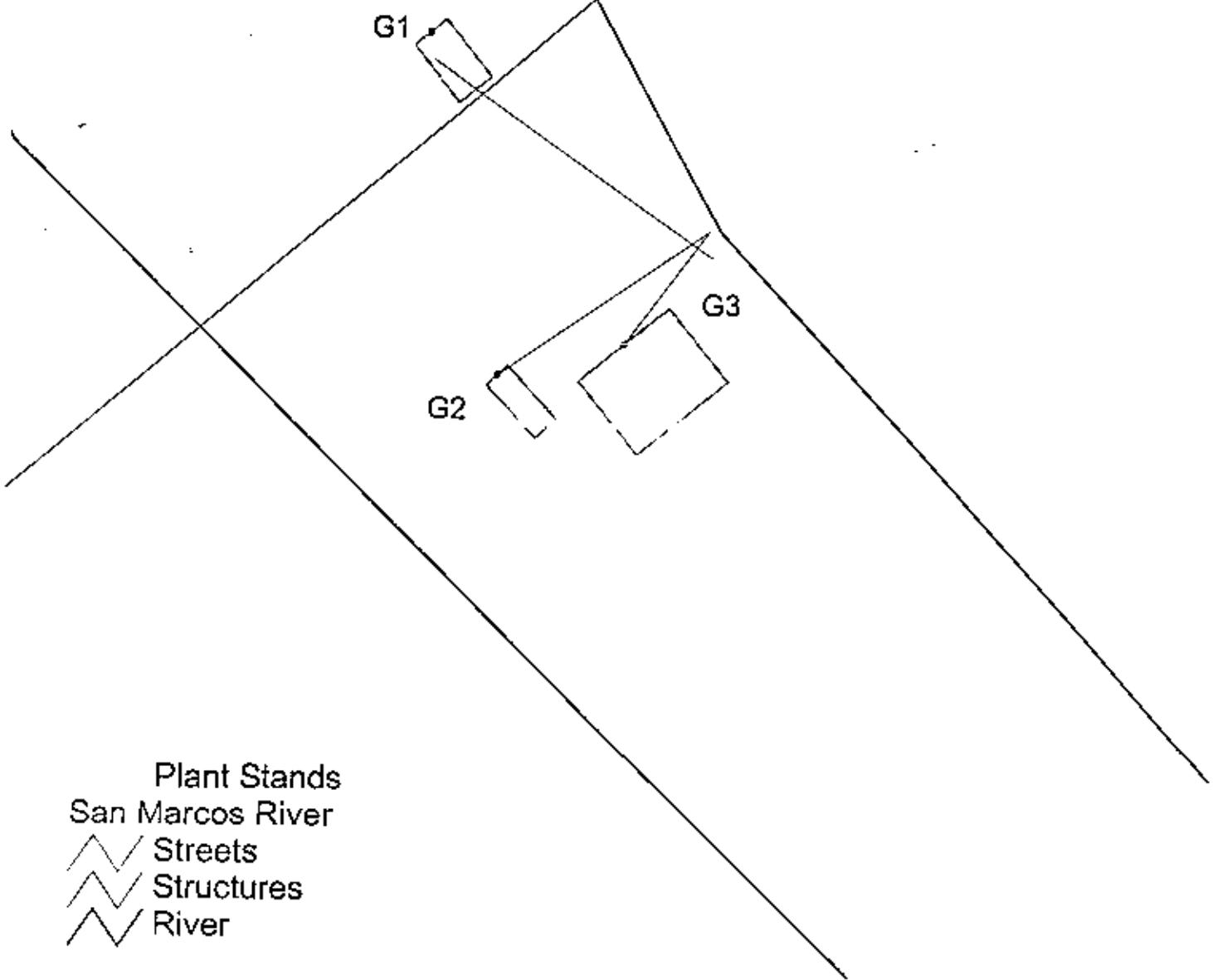
**Segment G1 - G3 1990**



- Plant Stands G
  - Plant Stands A
  - Plant Stands B
  - Plant Stands C
  - Plant Stands E,F
  - Plant Stands K,L
  - Plant Stands J
  - Plant Stands I
  - Plant Stands H
- San Marcos River
- ~ Streets
  - ~ Structures
  - ~ River



Segment G1 - G3 1991



Segment G1 - G3 1992

G1

G2

G3

- Plant Stands G
- San Marcos River
- Streets
- Structures
- River



# Segment G1- G3 1993

- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands B3,B8a,B15.1,B15.5,B15.7,B16.5,B16.6,B17.5,B18,B19
- Plant Stands C
- Plant Stands C5b, C9
- Plant Stands E,F
- Plant Stands E1-E5
- Plant Stands F2, F11-F15
- Plant Stands - G,H1
- Plant Stands H2-H3
- Plant Stands I
- Plant Stands J
- Plant Stands J9-J11
- Plant Stands K,L
- Plant Stands K11-K20,K29-K30
- Plant Stands K37-K44

San Marcos River

- ✓ Streets
- ▲ Structures
- ~~ River



# Segment G1 - G3 1994

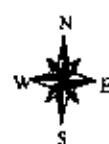
G1

G2

G3

- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands K,L
- Plant Stands I,J
- Plant Stands G,H

San Marcos River  
Streets  
Structures  
River



## Segment G4 1994

95

98

97

G4

- Rsfptag.shp
  - Plant Stand A
  - Plant Stand B
  - Plant Stand B3)•
    - Plant Stand C
    - Plant Stands C5, C9
    - Plant Stand C,F
    - Plant Stands F4,4,F8,Fad,F11-F15
    - Plant Stand G
    - Plant Stand H
    - Plant Stand I,J
    - Plant Stands J6-J11c
    - Plant Stand K,L
    - Plant Stands K11,2-K30,K37-K45
    - Plant Stand K30
  - San Marcos River
- ~~~~~ Streets  
~~~~~ Structures  
~~~~~ River

5

0

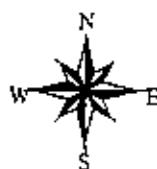
5

10

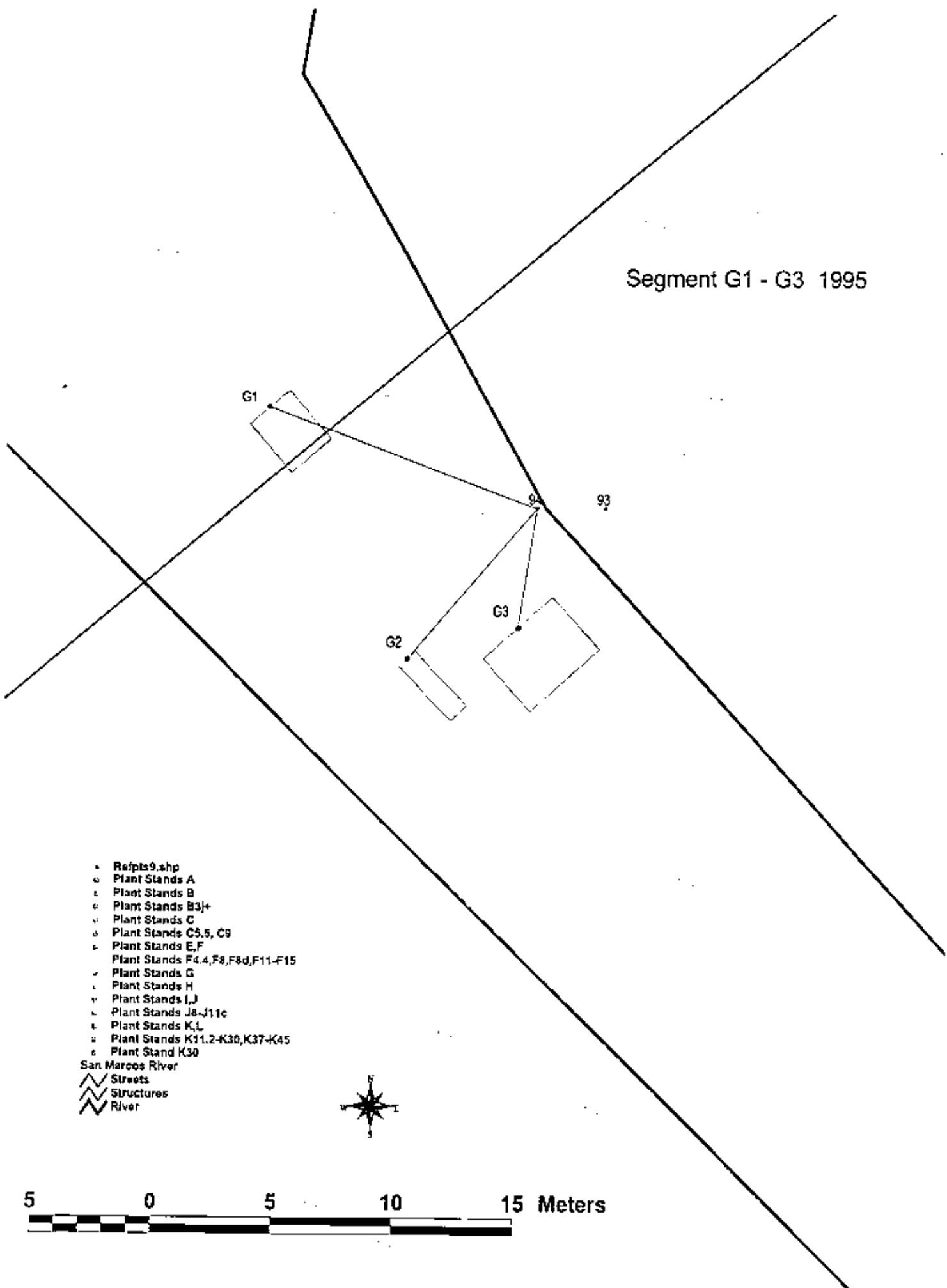
15

20

25 Meters



Segment G1 - G3 1995



## Segment G4 1995

95

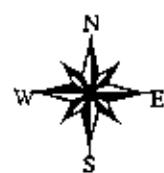
96

97

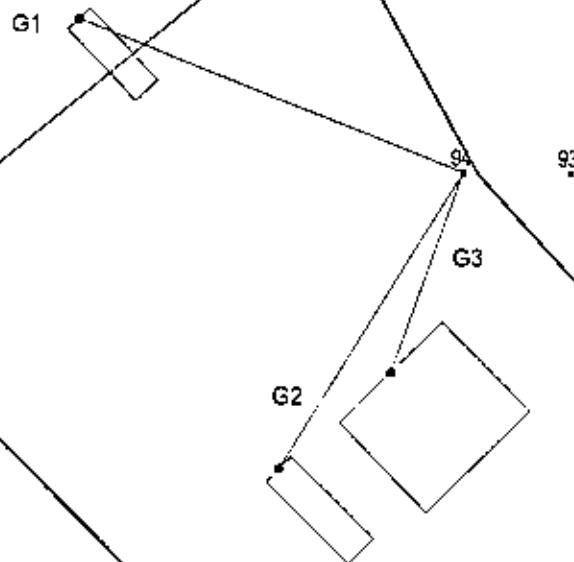
G4

- Ramps 9 ship
  - Plant Stands A
  - Plant Stands B
  - Plant Stands B3]+
  - Plant Stands C
  - Plant Stands C5.5, C8
  - Plant Stands E,F
  - Plant Stands F4.4,F8,F8d,F11-F15
  - Plant Stands G
  - Plant Stands H
  - > Plant Stands I,J
  - Plant Stands J8-J11c
  - Plant Stands K,L
  - Plant Stands K11.2-K30,K37-K45
  - Plant Stand K30
- San Marcos River
- ▲ Streets
  - ▲ Structures
  - ▲ River

5 0 5 10 15 20 25 Meters

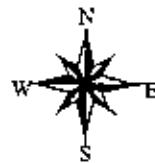
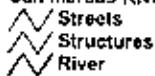


# Segment G1 - G3 1996



- Rwppts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands B3.1+
- Plant Stands B11.6,B11.9,B11.25
- Plant Stand B10.3
- Plant Stands C
- Plant Stands C5b,C5.5,C9
- Plant Stands G,H
- Plant Stands E,F
- Plant Stands F11-F15
- Plant Stands I,J
- Plant Stands J6-J11c,J13,J13a,J21
- Plant Stands K,L
- Plant Stand K10.3
- Plant Stands K14-K20, K2B, K37-K45

San Marcos River



### Segment G1 - G3 1997

G1

G2

G3

93

- Refpts9.shp
- Plant Stands A
- Segment B
- Plant Stands B1.1+
- Plant Stands C
- Plant Stands C2a,C5b,C5.5,C7,C9-C9d
- Plant Stands E,F
- Plant Stands E6,E14
- Plant Stands F3-F5.1,F7,F11-F15
- Plant Stands G,H
- Plant Stands G2-G3
- Plant Stands J
- Plant Stands J1a,J7.2-J11
- Plant Stands K,L
- Plant Stands K18.1-K20, K37-K45
- San Marcos River
- Streets
- Structures
- River



## Segment G1 - G3 1998

G1

G2

G3

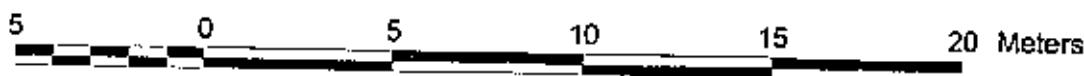
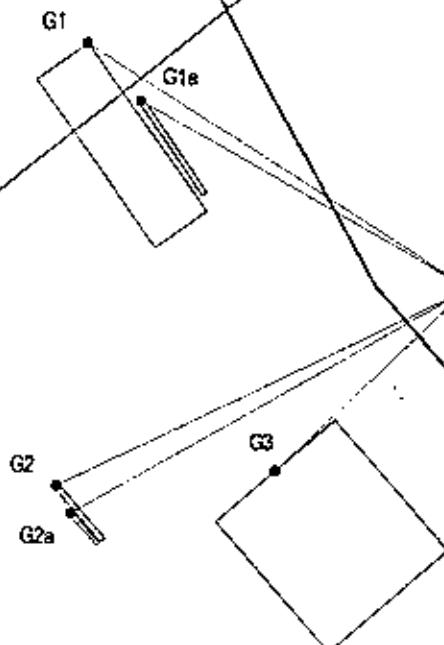
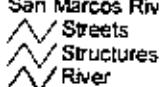
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands K
- Plant Stands J
- Plant Stands H
- Plant Stands G
- San Marcos River
- Streets
- Structures
- River



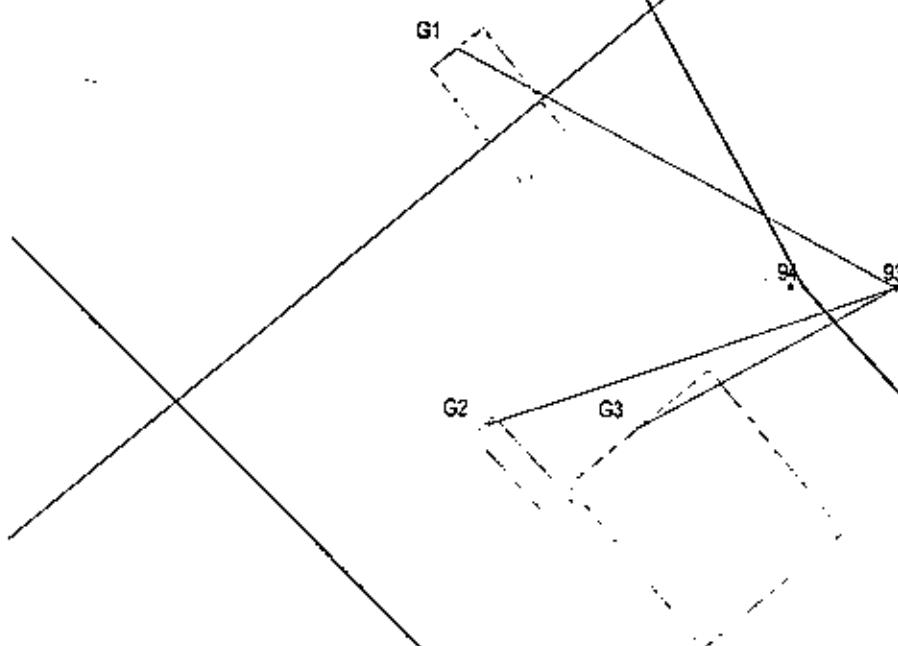
## Segment G1 - G3 1999

- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands K
- Plant Stands J
- Plant Stands G, H

San Marcos River



Segment G1 - G3 2000



- Refpts9.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands C
  - Plant Stands C1,C2,1,C5.5-C5.7,C9c,C9d
  - Plant Stands E,F
  - Plant Stands E6,E8-E11c
  - Plant Stands G, H
  - Plant Stands J
  - Plant Stands K
- San Marcos River
- △ Streets
  - △ Structures
  - △ River



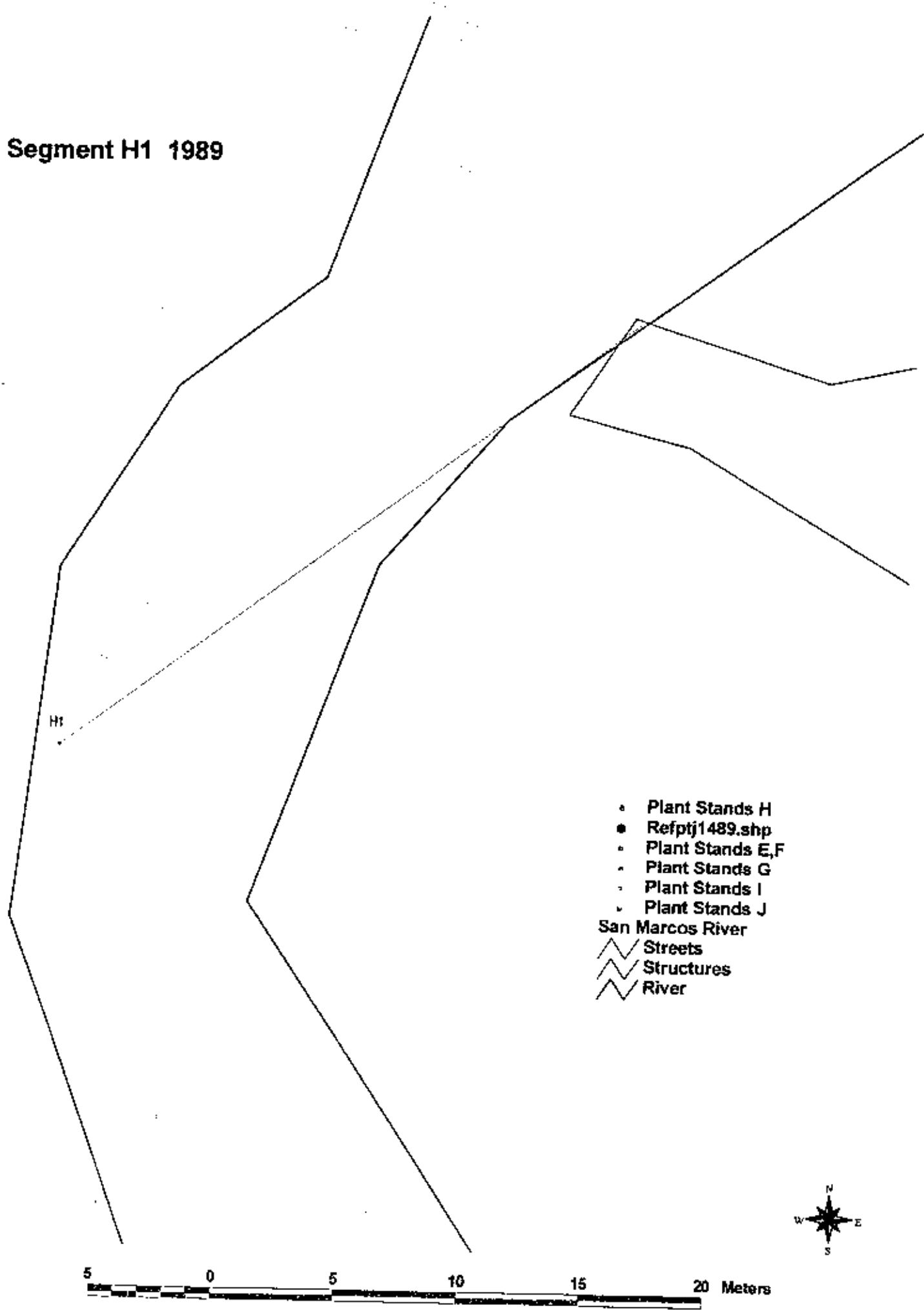
5 0 5 10 15 Meters

## Segment G0 - G3c 2001

- Refpts9.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands B11.9+
  - Plant Stands C
  - Plant Stands E
  - Plant Stands E8-E11e
  - Plant Stands F
  - Plant Stands G, H
  - Plant Stands J
  - Plant Stands K
- San Marcos River
- /\ Streets
  - /\ Structures
  - /\ River



## Segment H1 1989



## Segment H2 - 1989

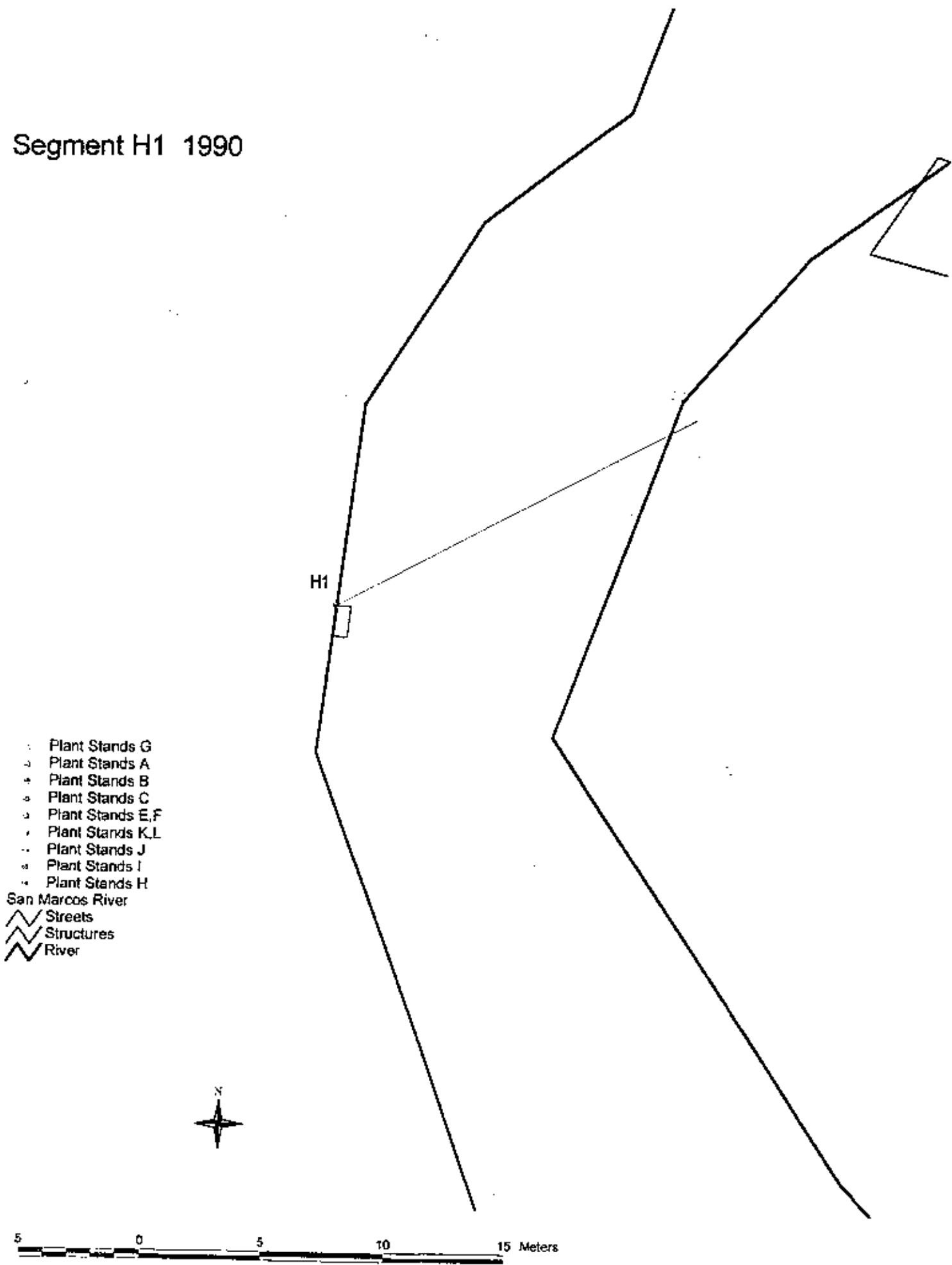
103  
104  
H2  
101  
102



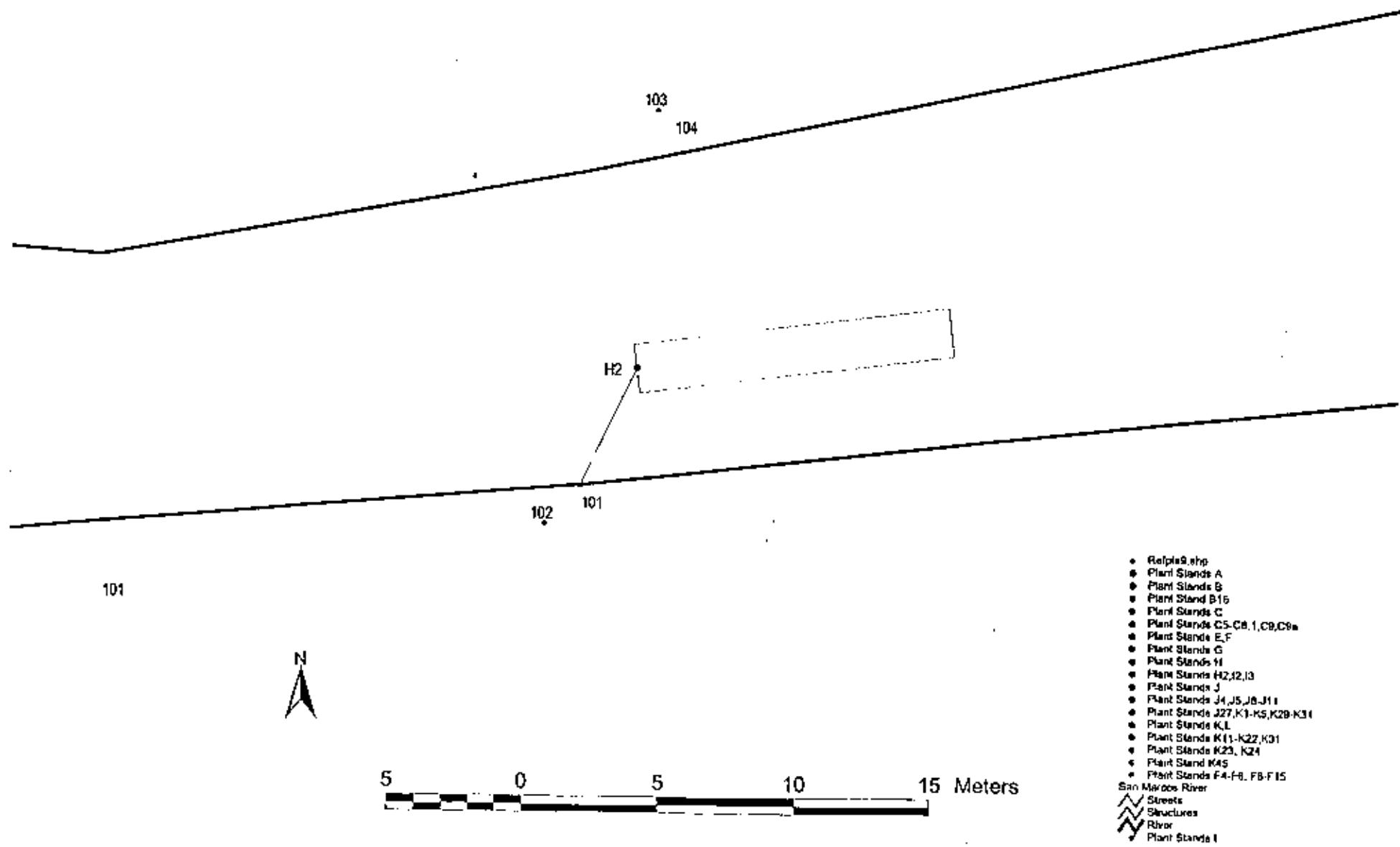
5 0 5 10 15 20 25 Meters

- Refpts9.shp
- Plant Stands A
- Plant Stands B
- ▲ Plant Stands C
- Plant Stand C3
- ◆ Plant Stands E,F
- Plant Stands E8a, E9-E13
- ▼ Plant Stands F2,F8-F12
- ◆ Plant Stand F10
- Plant Stands G
- ▼ Plant Stands H
- Plant Stands I
- Plant Stands H2,J2,J3,K36
- Plant Stands X
- Plant Stands J
- Plant Stands J2,J4-J11,J23-J28
- ▼ Plant Stands J15-J19
- Plant Stands K,L
- Plant Stands K23, K24
- Plant Stands K27,K36,K38-K40,K42-K44
- Plant Stand M1
- Rpf89.shp
- Rpf1489.shp
- Rp171.shp
- San Marcos River
- Streets
- Structures
- River

## Segment H1 1990

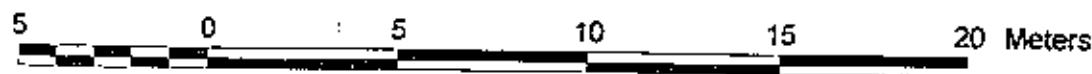


## Segment H2 1990

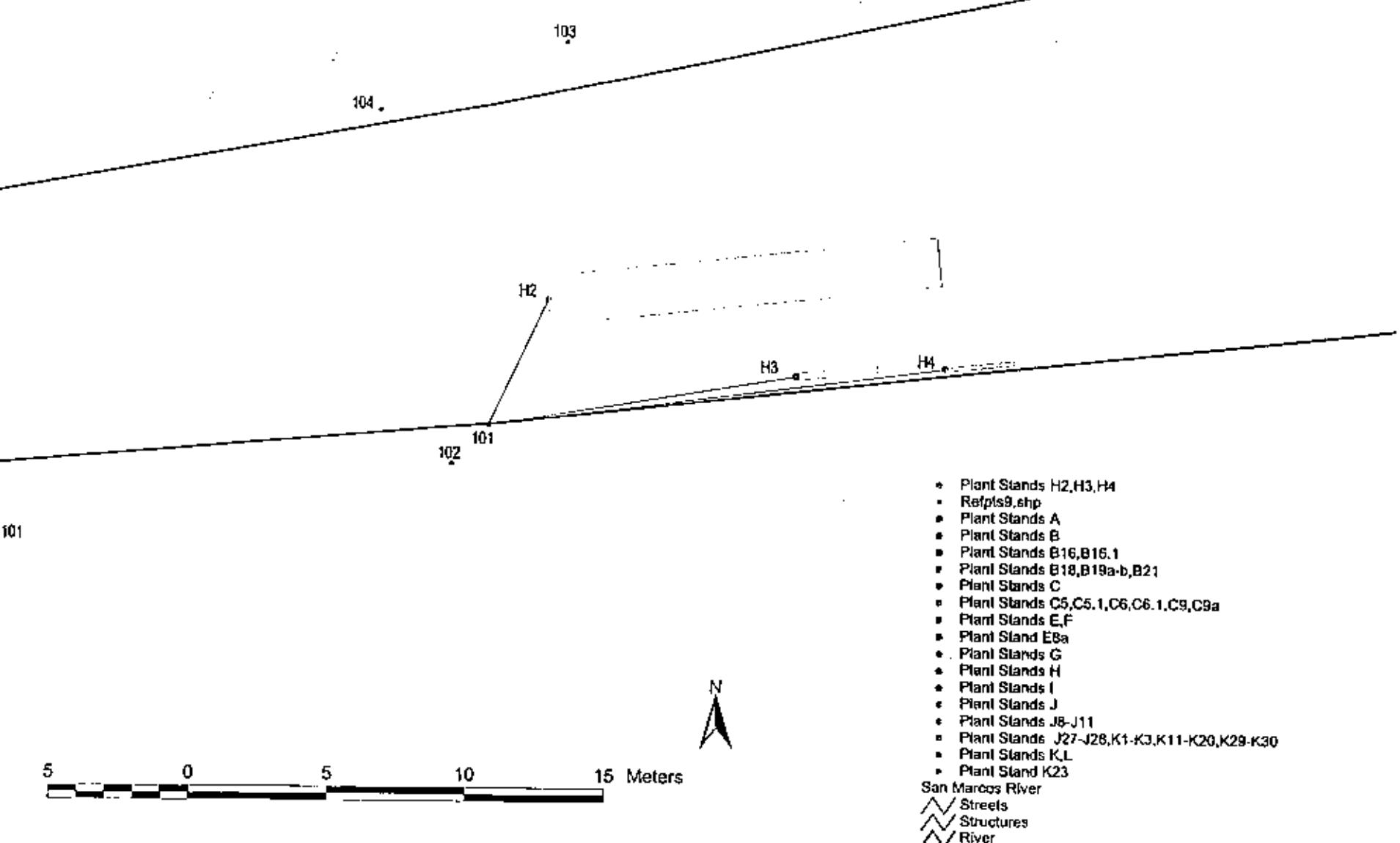


## Segment H1 1991

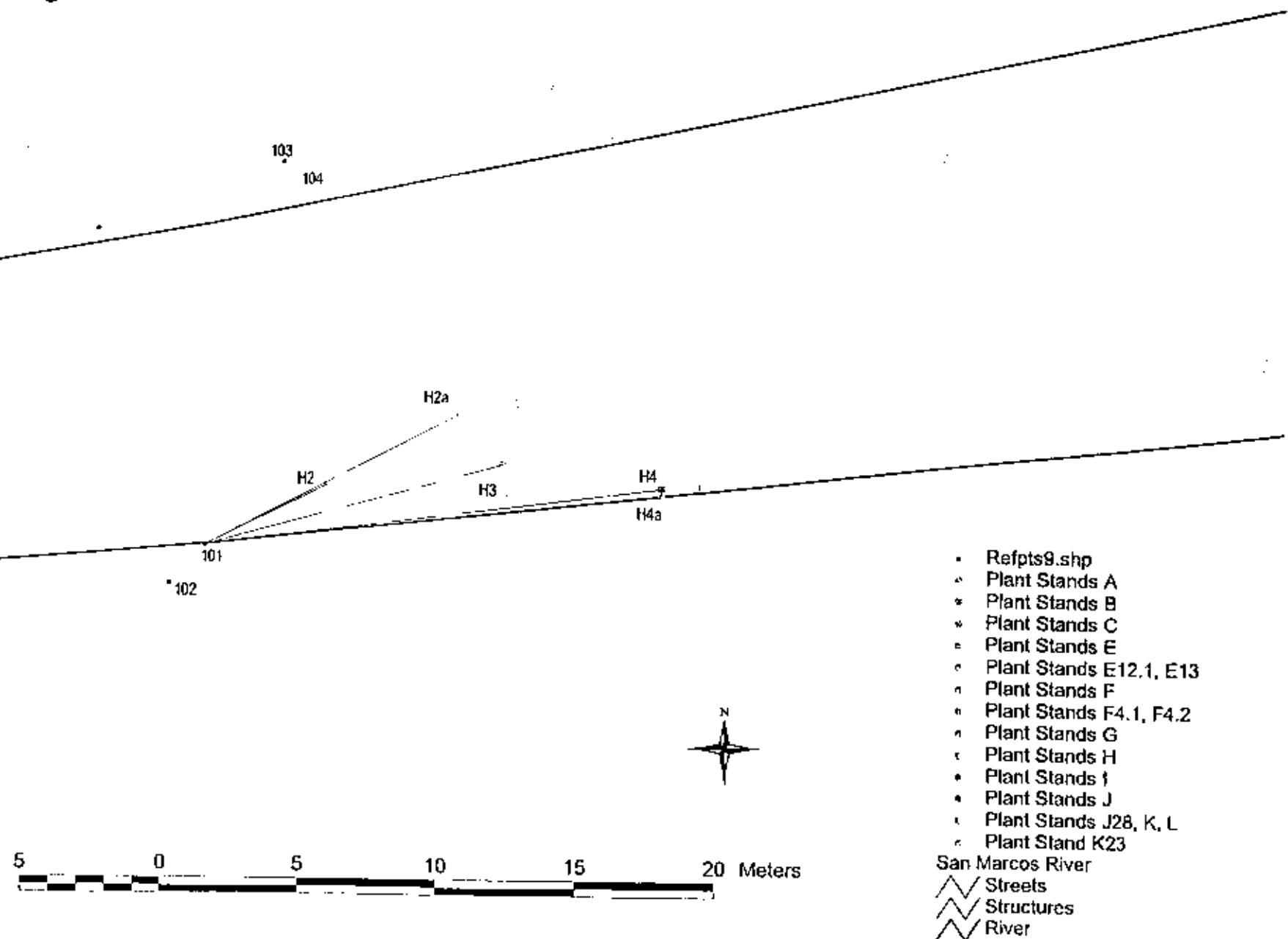
- Plant Stands A
  - Plant Stands B18,B19a-b,B21
  - Plant Stands B
  - Plant Stands C
  - Plant Stands E,F
  - Plant Stands G
  - Plant Stands H
  - Plant Stands I
  - Plant Stands J
  - Plant Stands K,L
- San Marcos River
- Streets
  - Structures
  - River



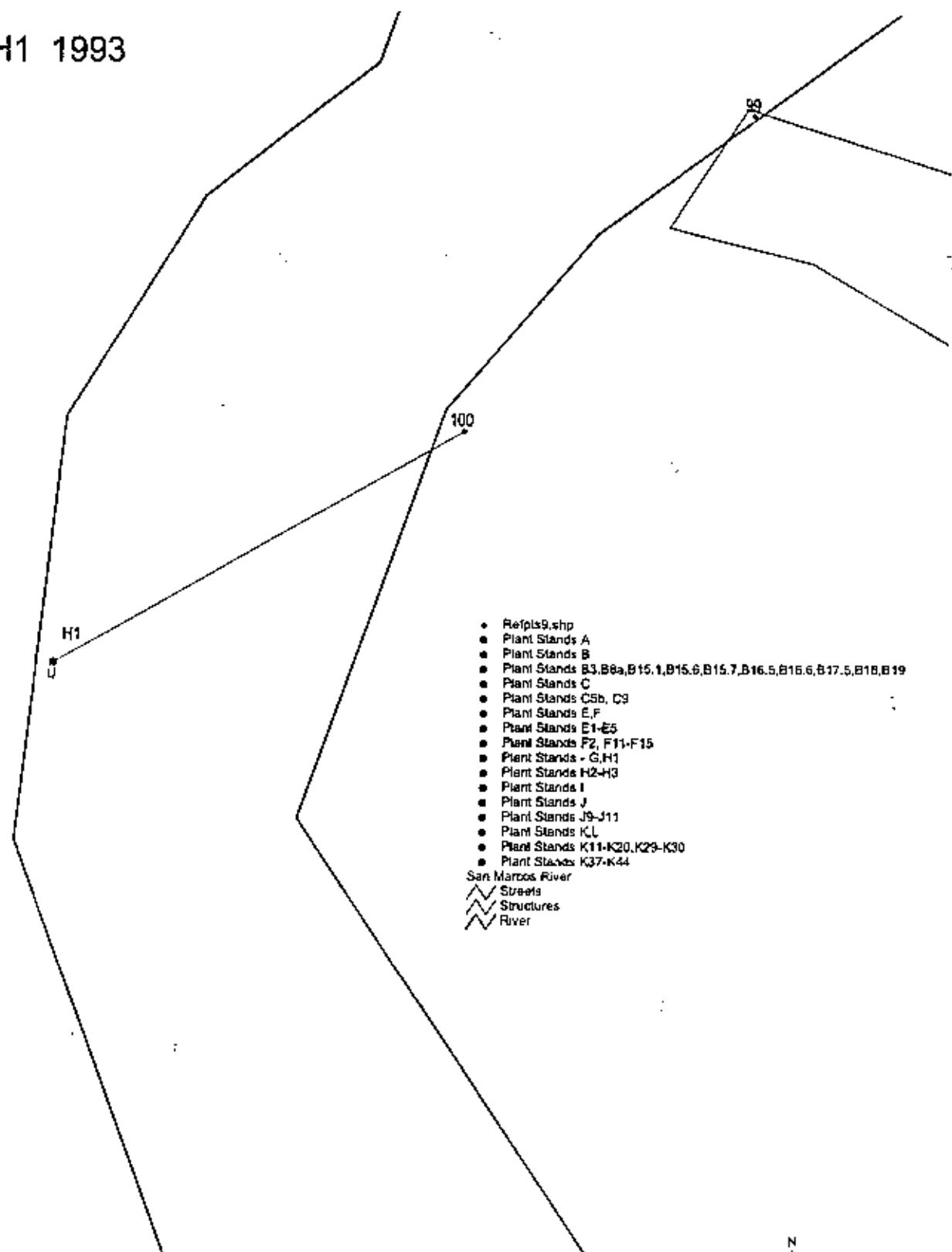
## Segment H2 - H4 1991



## Segment H2 - H4a 1992

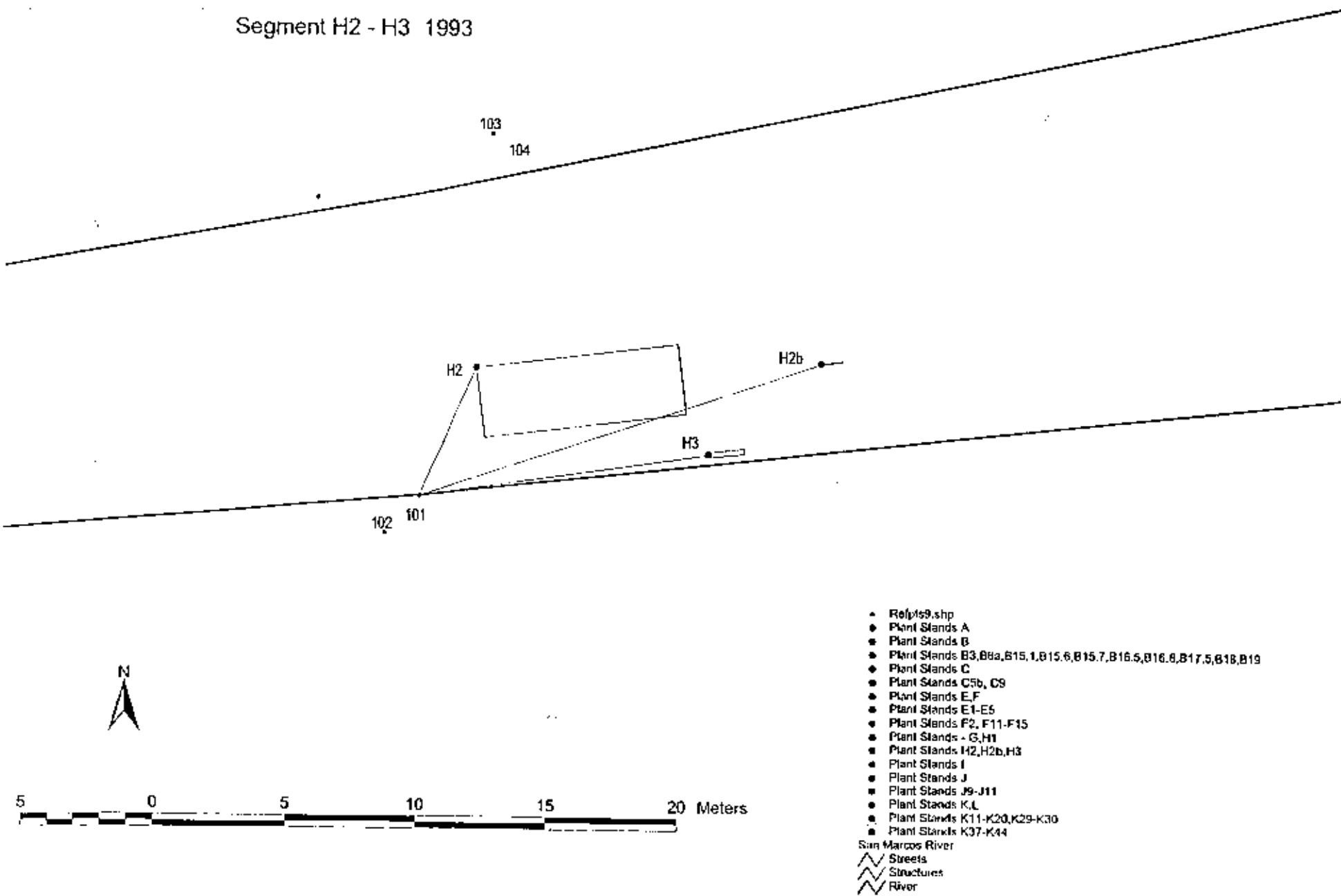


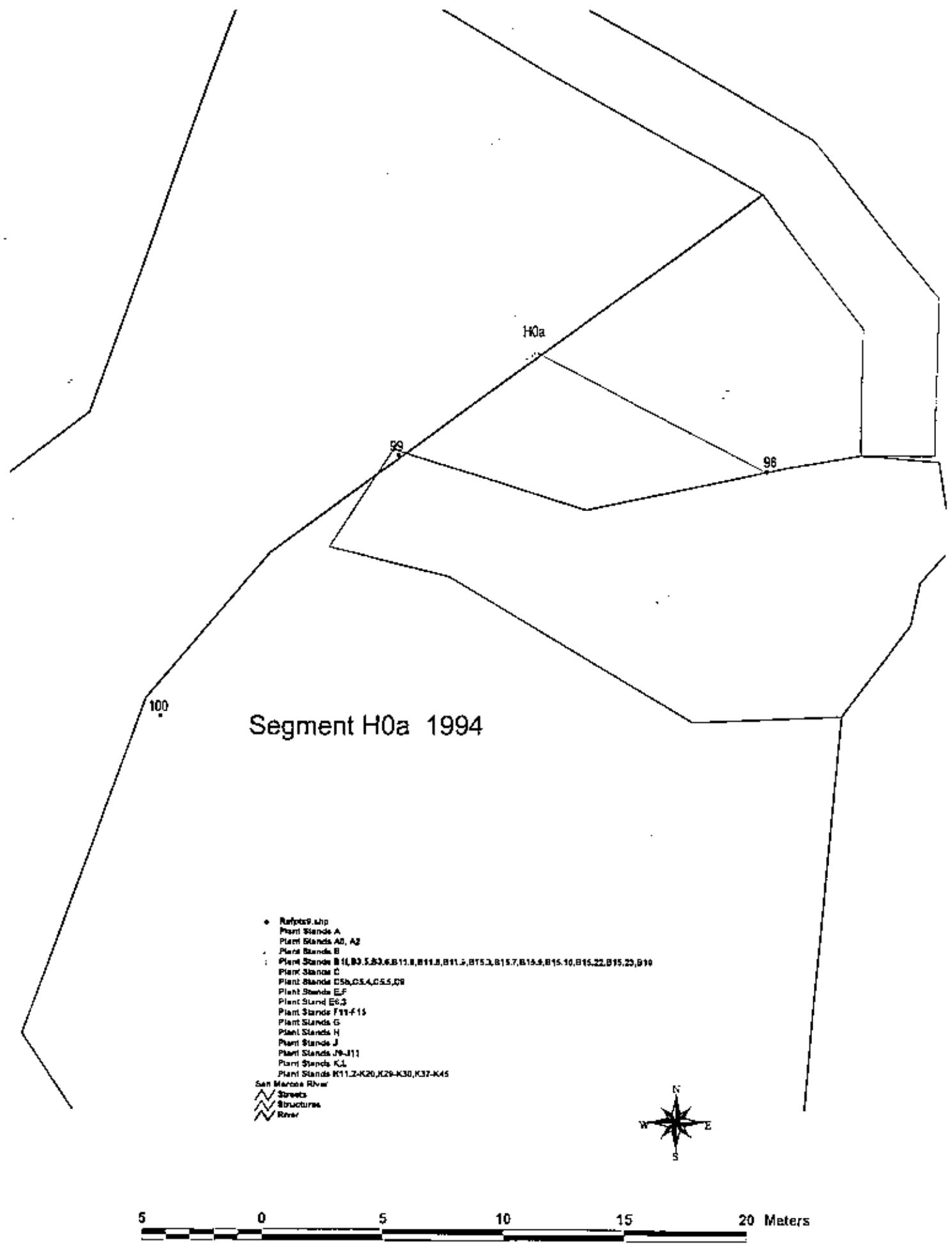
# Segment H1 1993



5 0 5 10 15 Meters

### Segment H2 - H3 1993





## Segment H2 - H2b 1994

103  
104

H2  
H2a  
H2b  
101  
102



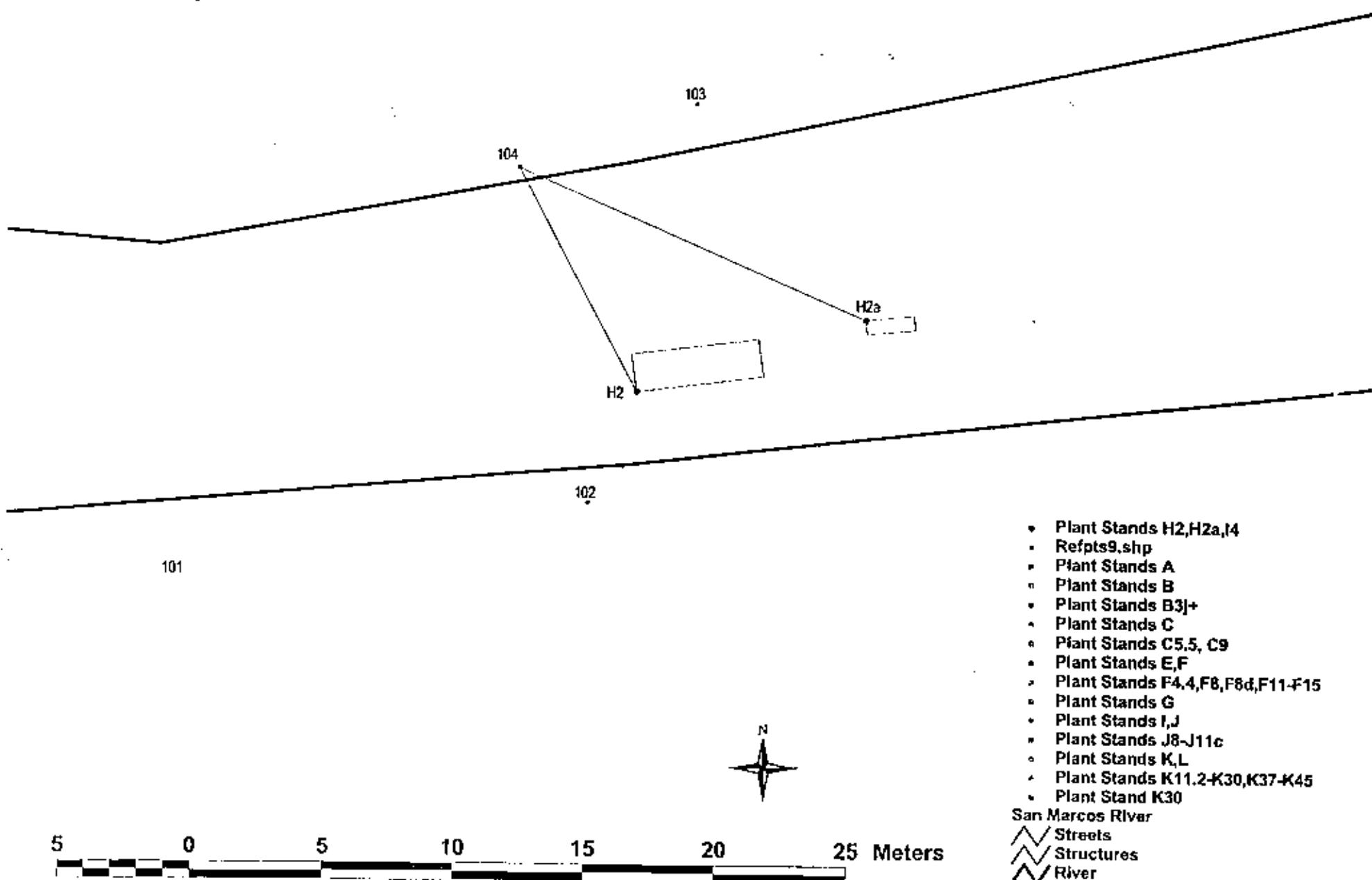
- Refpts9.shp
- ▼ Plant Stands A
- \* Plant Stands A0, A2
- Plant Stands B
- △ Plant Stands B16,B3.5,B3.6,B11.6,B11.8,B11.9,B15.3,B15.7,B15.9,B15.10,B15.22,B15.23,B19
- ▲ Plant Stands C
- ◆ Plant Stands C5b,C5.4,C5.5,C9
- ▷ Plant Stands E,F
- > Plant Stand E6.3
- ◁ Plant Stands F11-F15
- ◆ Plant Stands G
- Plant Stands H
- ▷ Plant Stands J
- Plant Stands J9-J11
- \* Plant Stands K,L
- Plant Stands K11.2-K20,K29-K30,K37-K45

San Marcos River

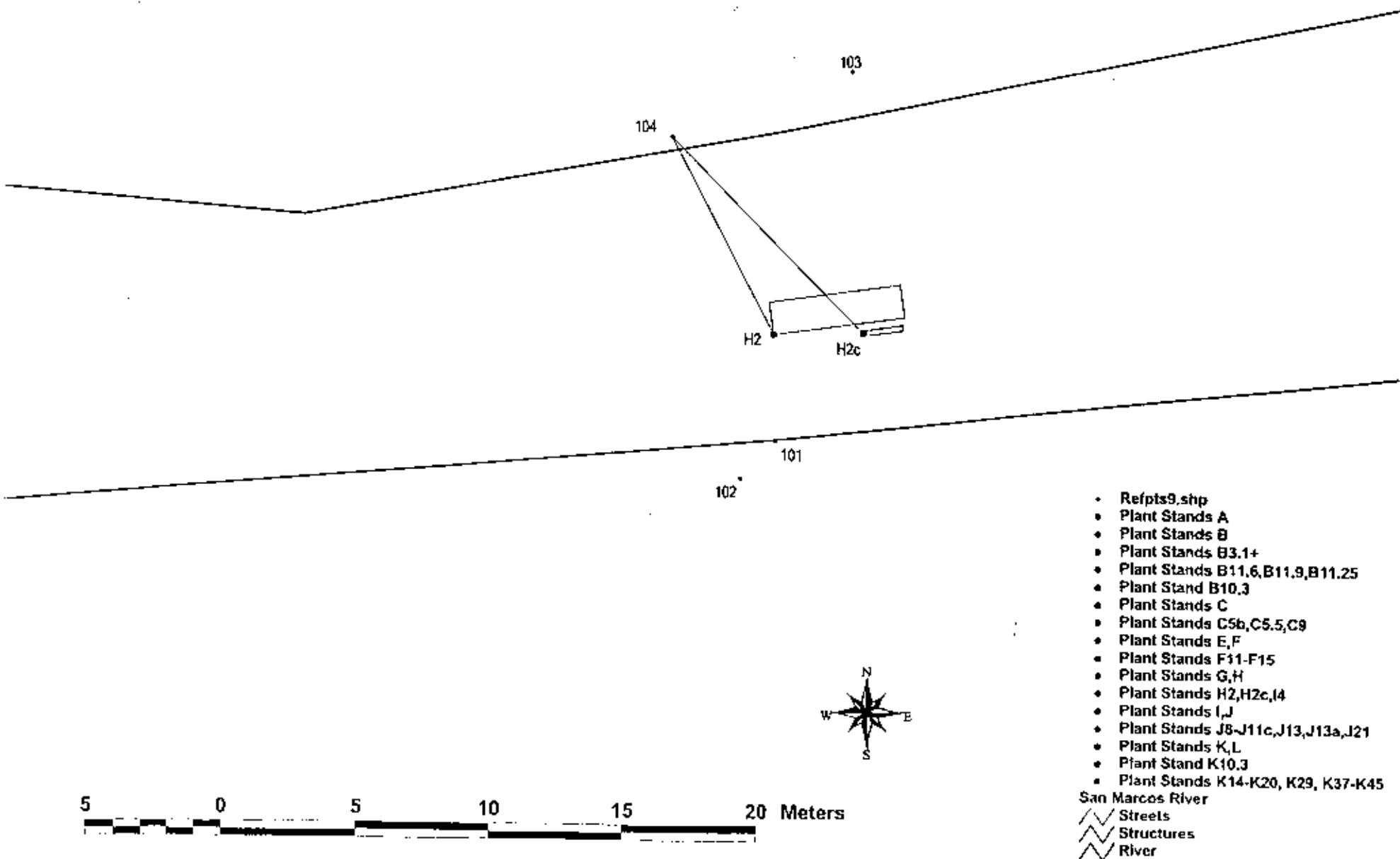
- ~~~~~ Streets
- ~~~~~ Structures
- ~~~~~ River



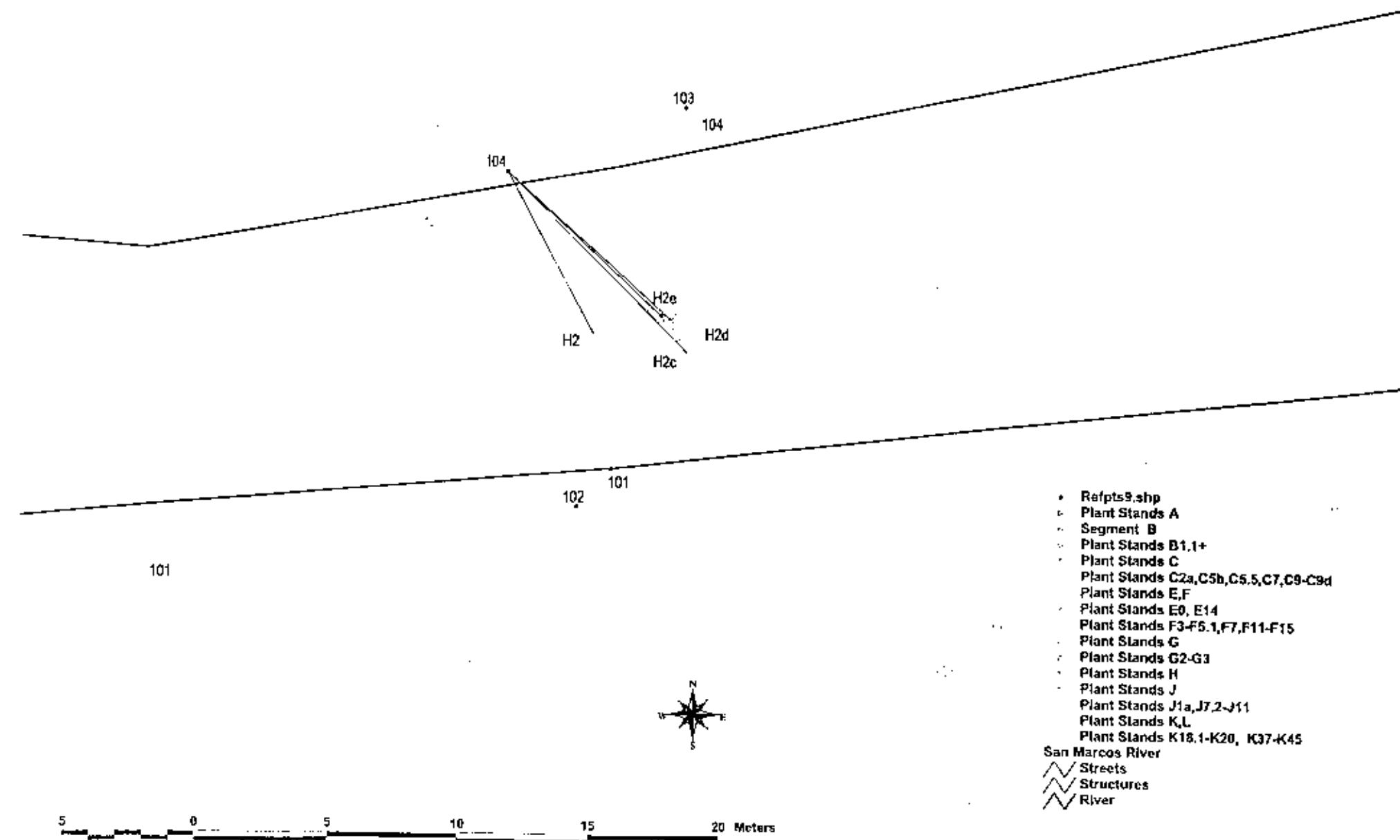
Segment H2, H2a 1995



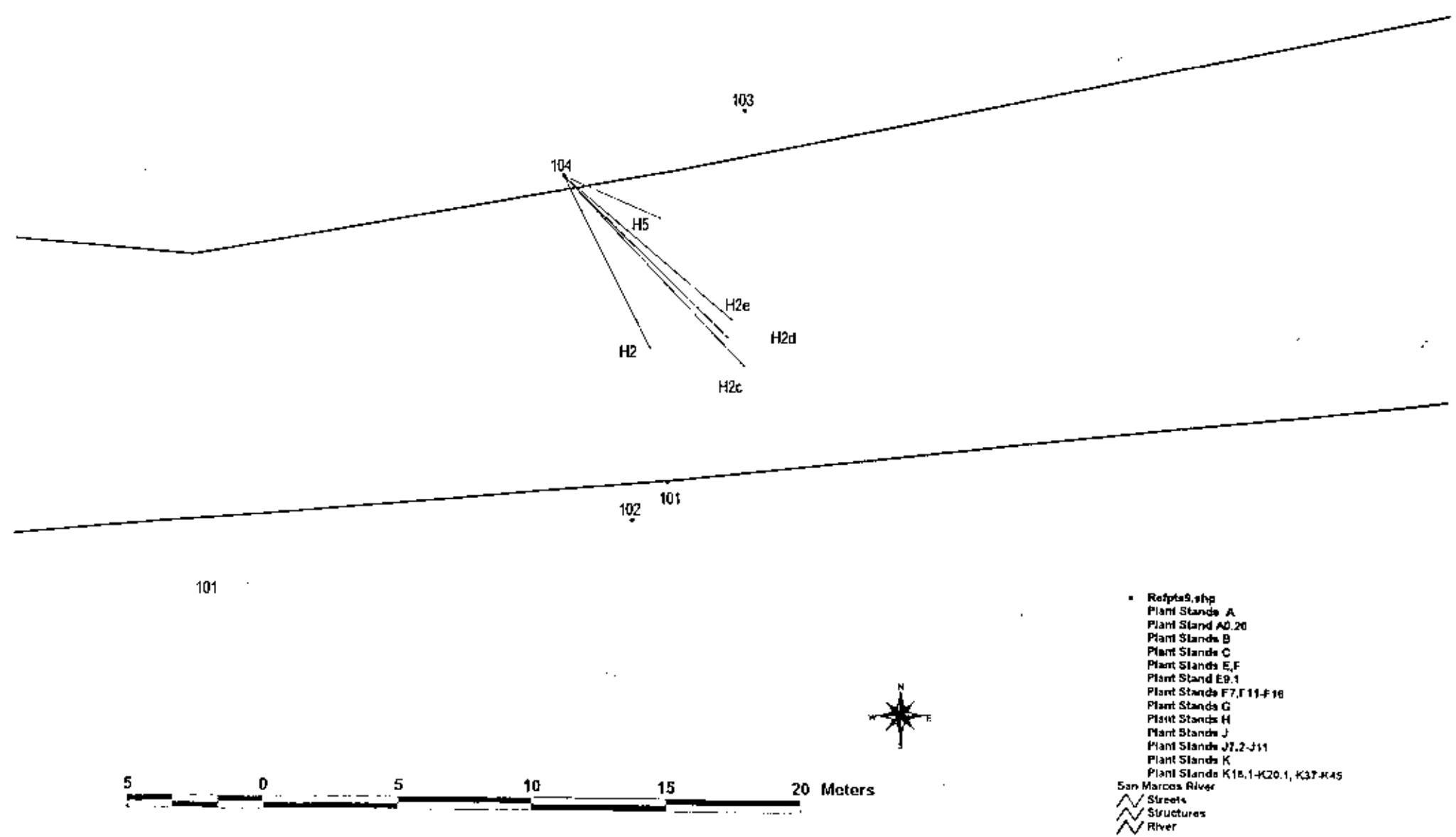
# Segment H2, H2c 1996



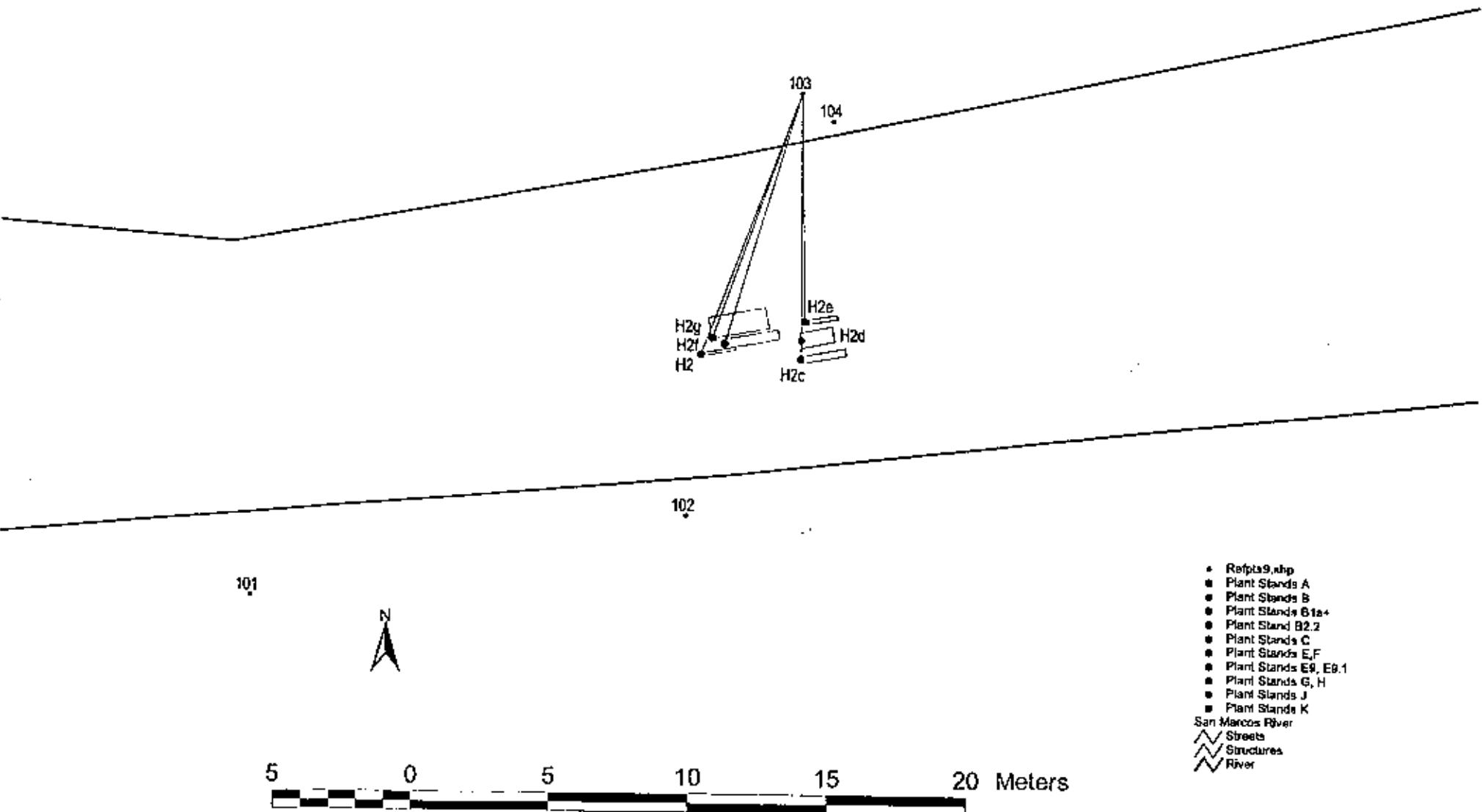
## Segment H2 - H2e 1997



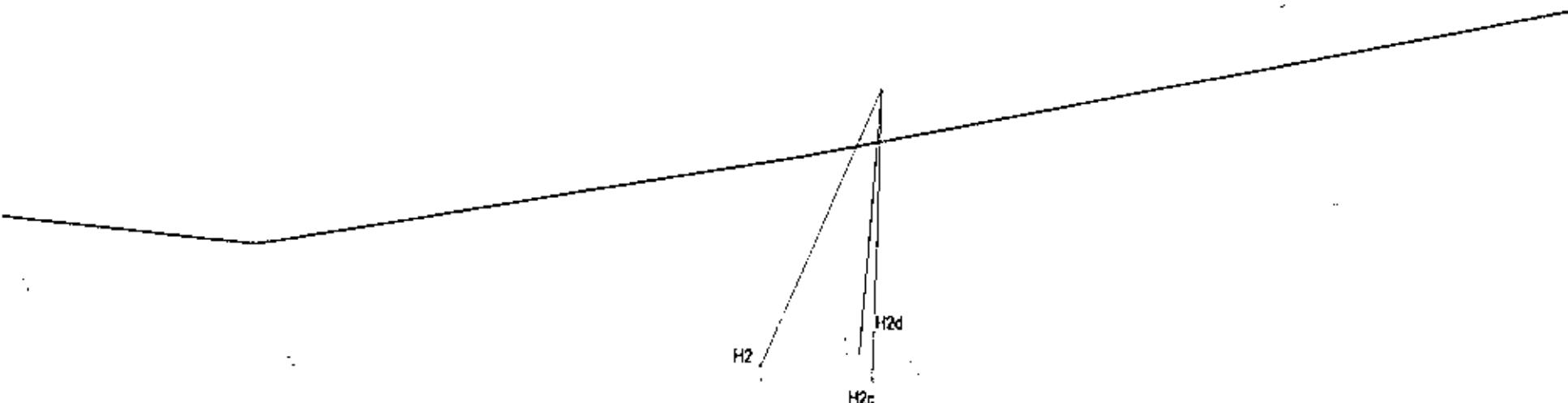
## Segment H2 - H5 1998



Segment H2 - H2g 1999



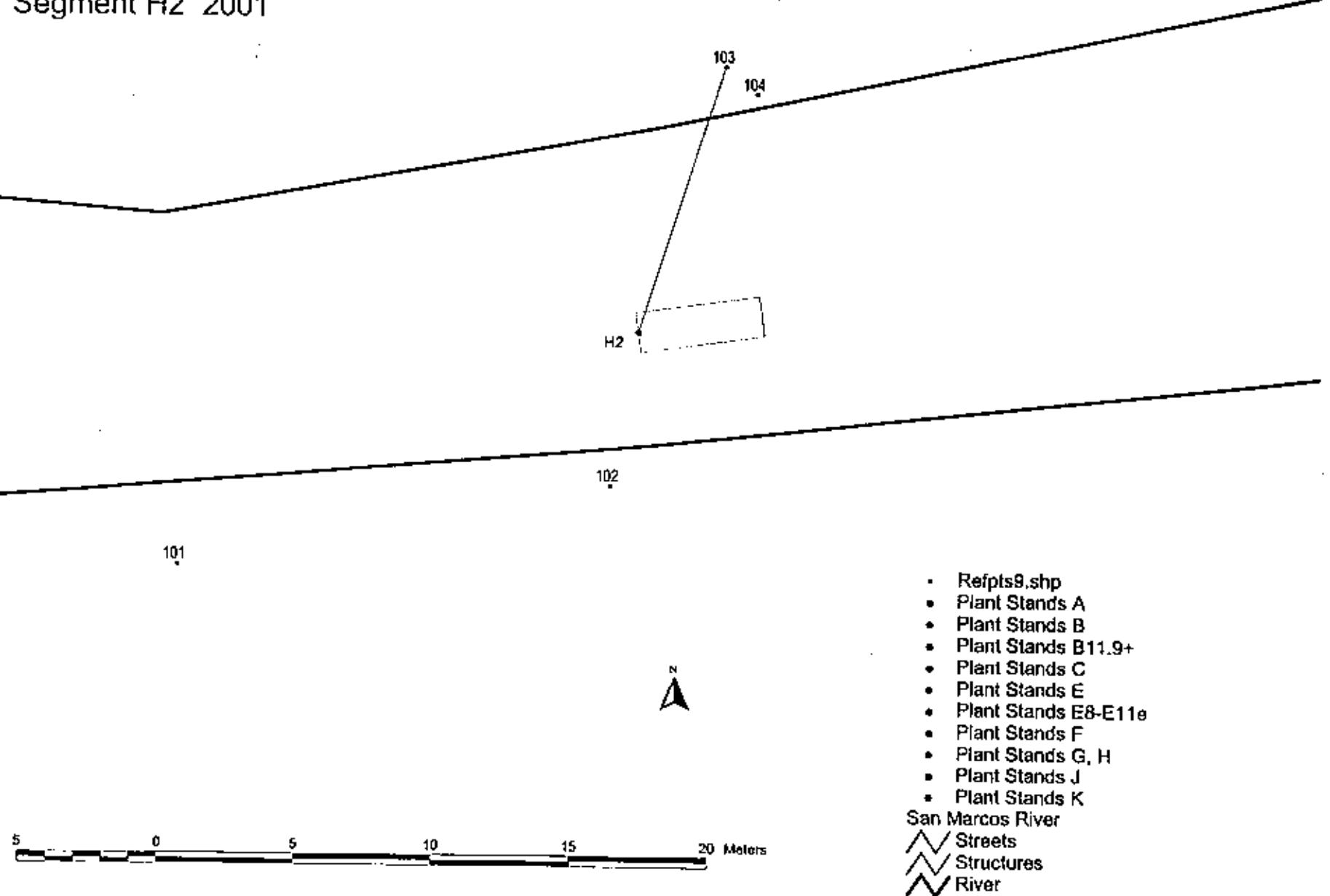
Segment H2 , H2c, H2d 2000



5 0 5 10 15 Meters

- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands K
- Plant Stands J
- Plant Stands G, H
- San Marcos River
- Streets
- Structures
- River

## Segment H2 2001

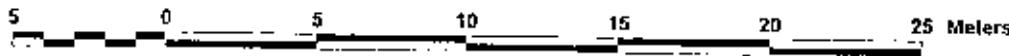


Segment X1 1989

- Plant Stands X
  - Plant Stands H
  - Plant Stands E,F
  - Plant Stands G
  - Plant Stands I
  - Plant Stands J
- San Marcos River
- Streets
  - Structures
  - River

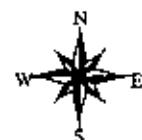


X1



## Segment I1 1989

I1  
106

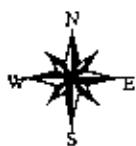


- Refpts9.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands C
  - Plant Stand C3
  - Plant Stands E,F
  - Plant Stands E8a, E9-E13
  - Plant Stands F2,F8-F12
  - Plant Stand F10
  - Plant Stands G
  - Plant Stands H
  - Plant Stands I
  - Plant Stands X
  - Plant Stands J
  - Plant Stands J2,J4-J11,J23-J26
  - Plant Stands J15-J18
  - Plant Stands K,L
  - Plant Stands K23, K24
  - Plant Stands K27,K36,K38-K40,K42-K44
  - Plant Stand M1
  - Rpf989.shp
  - Rpj1489.shp
  - Rp171.shp
- San Marcos River
- △ Streets
  - △ Structures
  - △ River



## Segment I2 - I7 1989

- Repts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stand C3
- Plant Stands E,F
- Plant Stands E6a, E9-E13
- Plant Stands F2,F9-F12
- Plant Stand F10
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands H2,I2,I3,K36
- Plant Stands X
- Plant Stands J
- Plant Stands J2,J4-J11,J23-J26
- Plant Stands J15-J18
- Plant Stands K,L
- Plant Stands K23, K24
- Plant Stands K27,K35,K38-K40X42-K44
- Plant Stand M1
- Rp1983.shp
- Rp1439.shp
- Rp171.shp
- San Marcos River
- Street
- Structure
- River



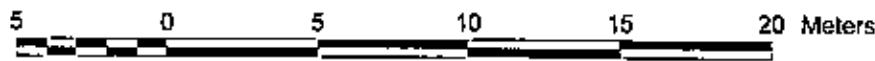
116

## Segment I1 1990

- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stand B16
- Plant Stands C
- Plant Stands C5-C6.1,C9,C9a
- Plant Stands E,F
- Plant Stands F4-F6, F8-F15
- Plant Stands G
- Plant Stands H
- Plant Stand H2
- Plant Stands I
- Plant Stands J
- Plant Stands J4,J5,J8-J11
- Plant Stands J27,K1-K5,K29-K31
- Plant Stands K,L
- Plant Stands K11-K22,K31
- Plant Stands K23, K24
- Plant Stand K45

San Marcos River

- ~~ Streets
- ~~ Structures
- ~~ River



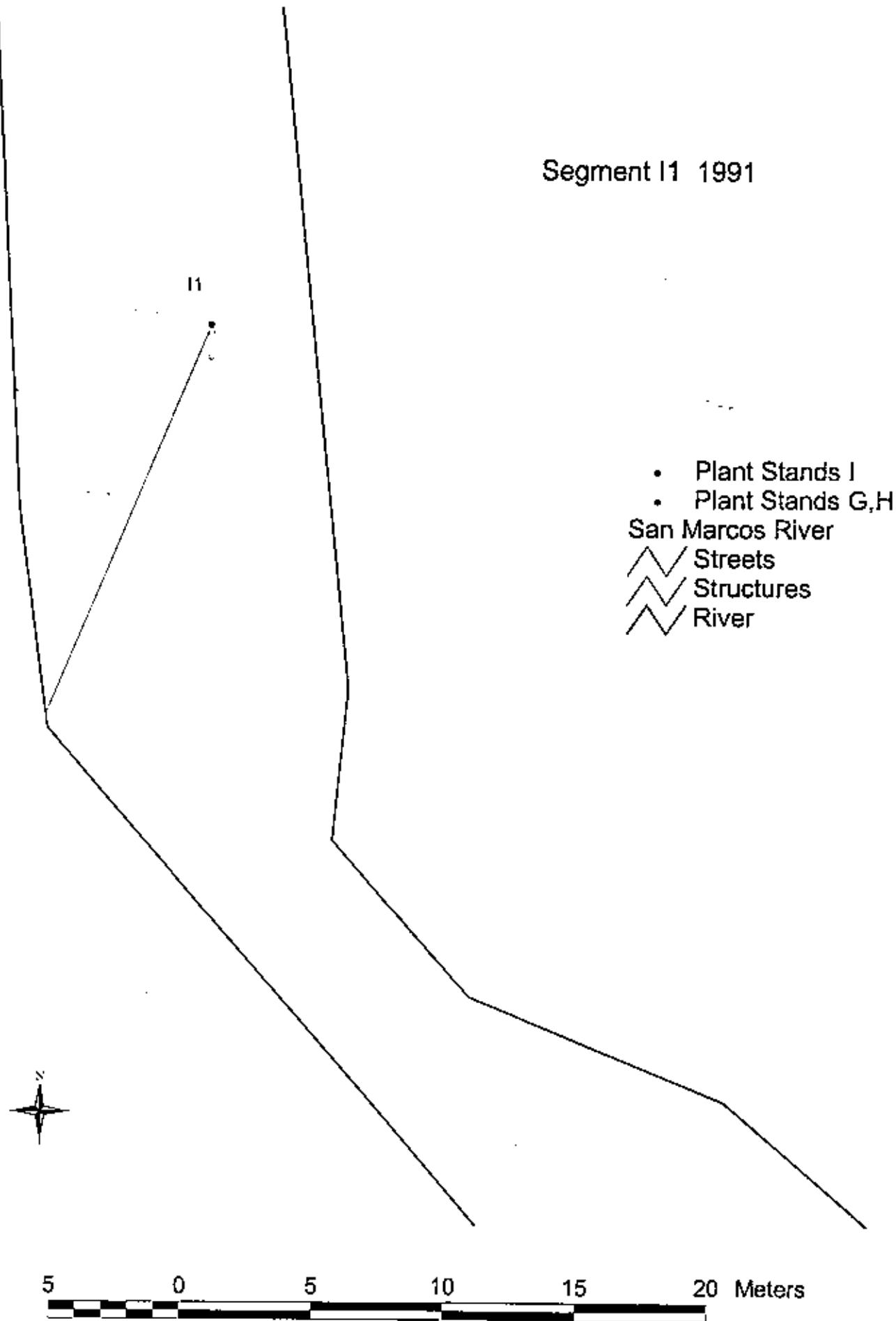
### Segment I2 - I8 1990

- Refpts9.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stand B16
  - Plant Stands C
  - Plant Stands C5-C6.1,C9,C9a
  - Plant Stands E,F
  - Plant Stands G
  - Plant Stands H
  - Plant Stands H2,I2,I3
  - Plant Stands J
  - Plant Stands J4,J5,J8-J11
  - Plant Stands J27,K1-K5,K29-K31
  - Plant Stands K,L
  - Plant Stands K11-K22,K31
  - Plant Stands K23, K24
  - Plant Stand K45
  - Plant Stands F4-F6, F8-F15
- San Marcos River
- △ Streets
  - ▲ Structures
  - ◆ River
  - Plant Stands I



5 0 5 10 15 20 Meters

Segment I1 1991



## Segment I4 - I6, I8 1991

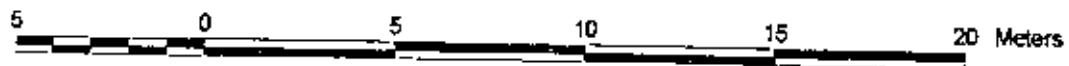
- Plant Stands A
  - Plant Stands B18,B19a-b,B21
  - Plant Stands B
  - Plant Stands C
  - Plant Stands E,F
  - Plant Stands G,H
  - Plant Stands I
  - Plant Stands J
  - Plant Stands K,L
- San Marcos River  
Streets  
Structures  
River



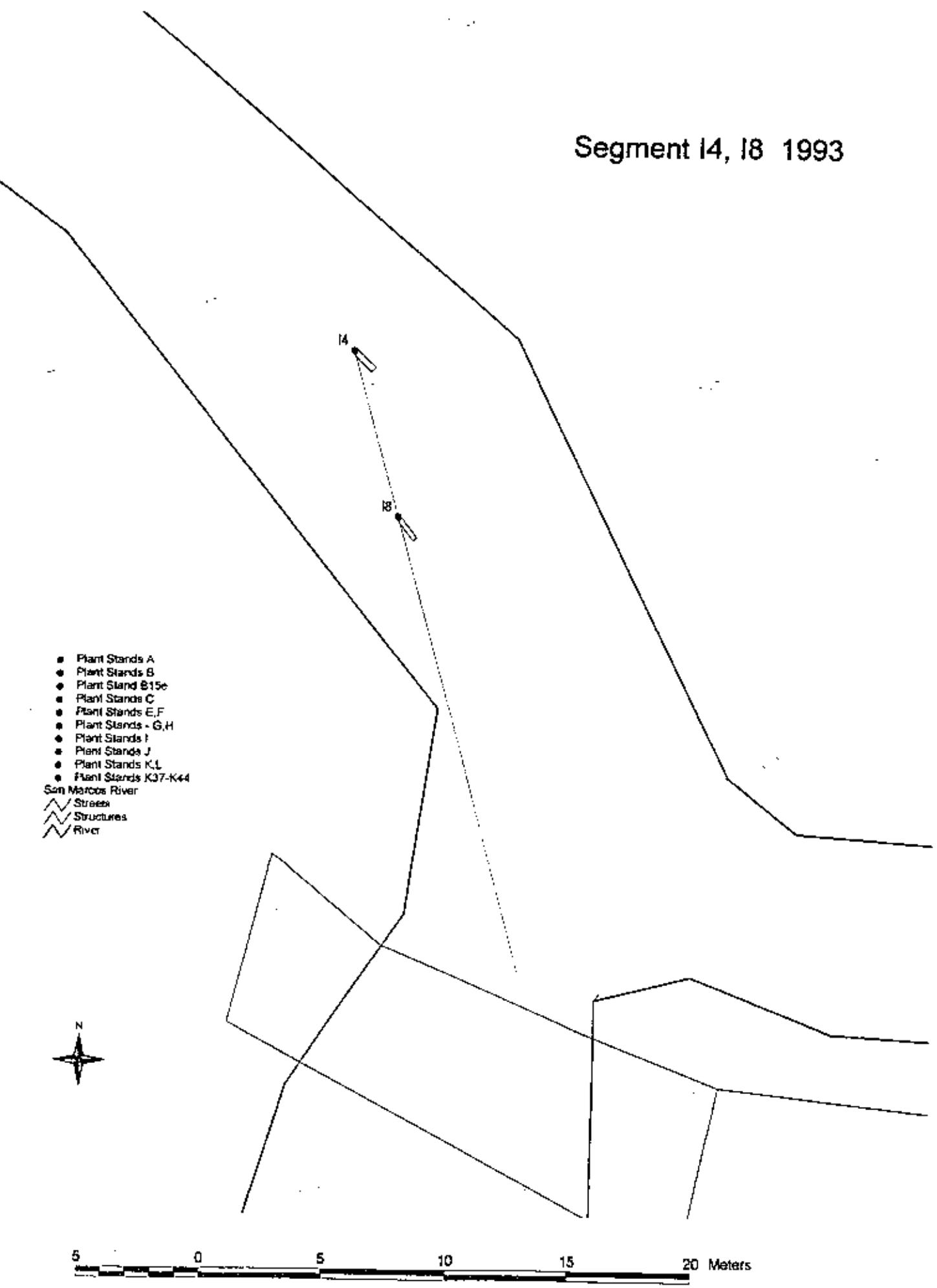
5 0 5 10 15 20 Meters

## Segment 14 1992

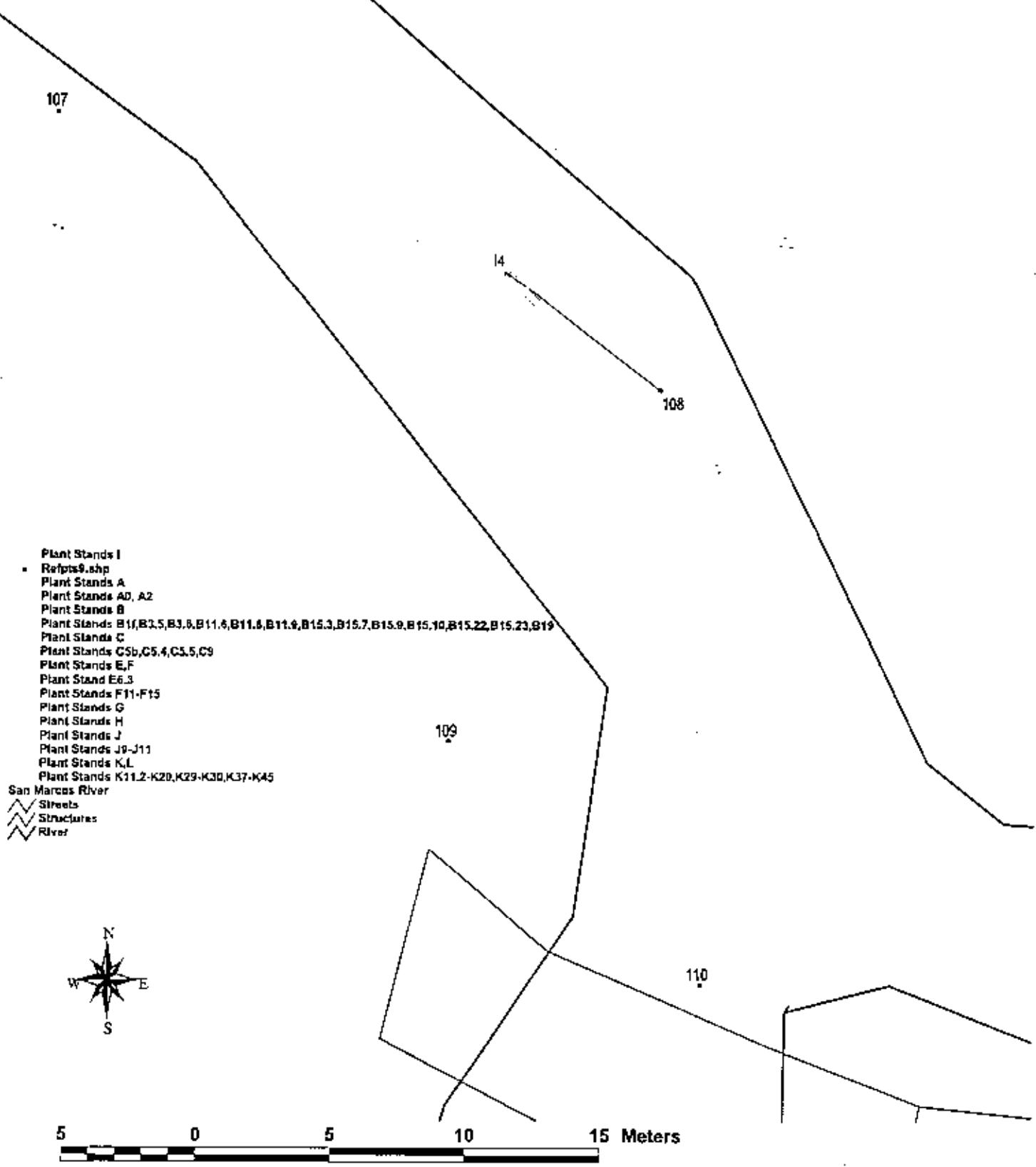
- Plant Stands I
  - Plant Stands G
- San Marcos River
- ~ Streets
  - ~~ Structures
  - ~~~ River



## Segment I4, I8 1993



## Segment I4 1994



Segment I4 1995

- Refpts9.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands B3J+
  - Plant Stands C
  - Plant Stands C5, C9
  - Plant Stands E,F
  - Plant Stands F4, F8, F8d, F11-F15
  - Plant Stands G
  - Plant Stands H2, H2a, I4
  - Plant Stands I,J
  - Plant Stands J8-J11c
  - Plant Stands K,L
  - Plant Stands K11.2-K30, K37-K45
  - Plant Stand K30

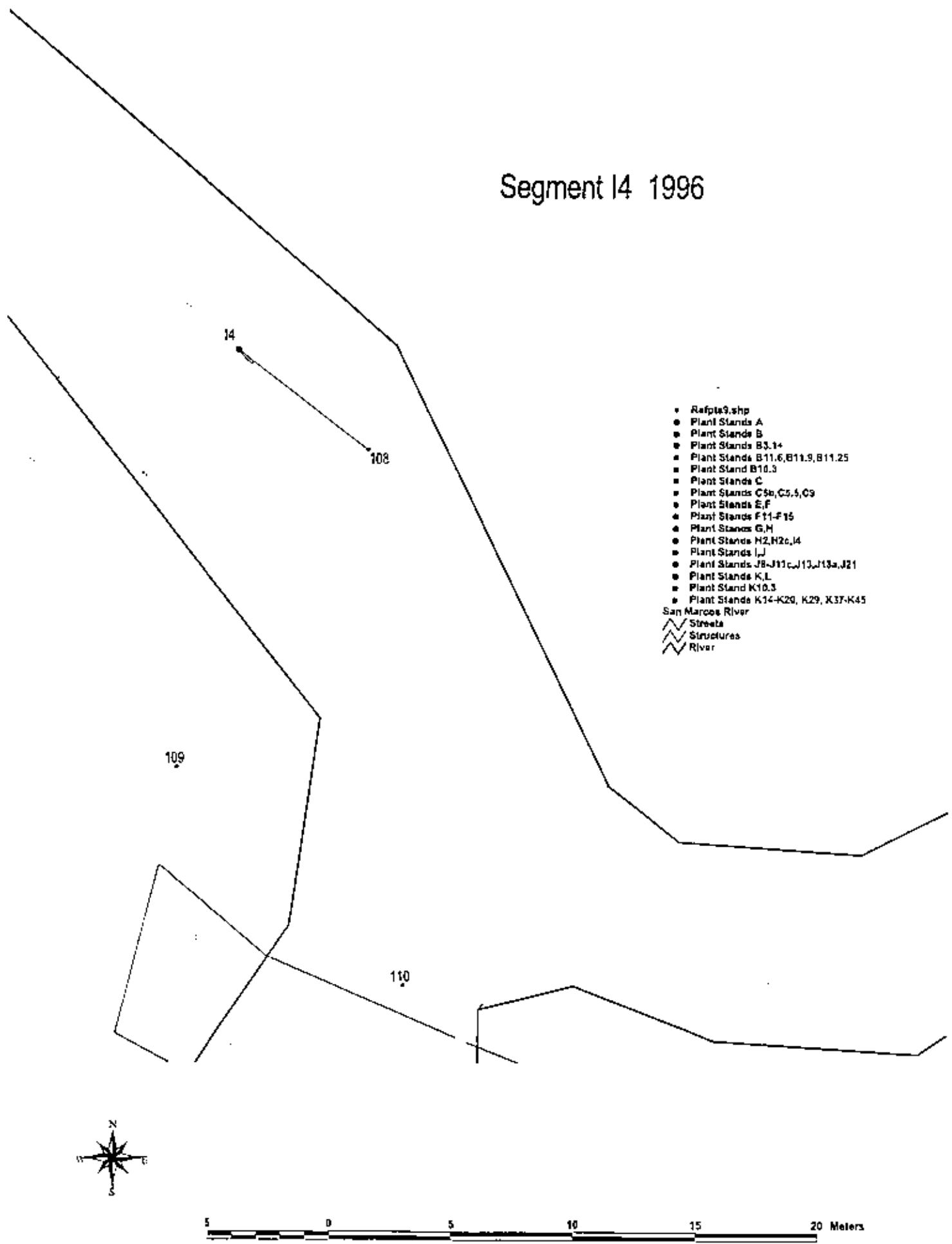
San Marcos River

- ✓ Streets
- ✓ Structures
- ✓ River

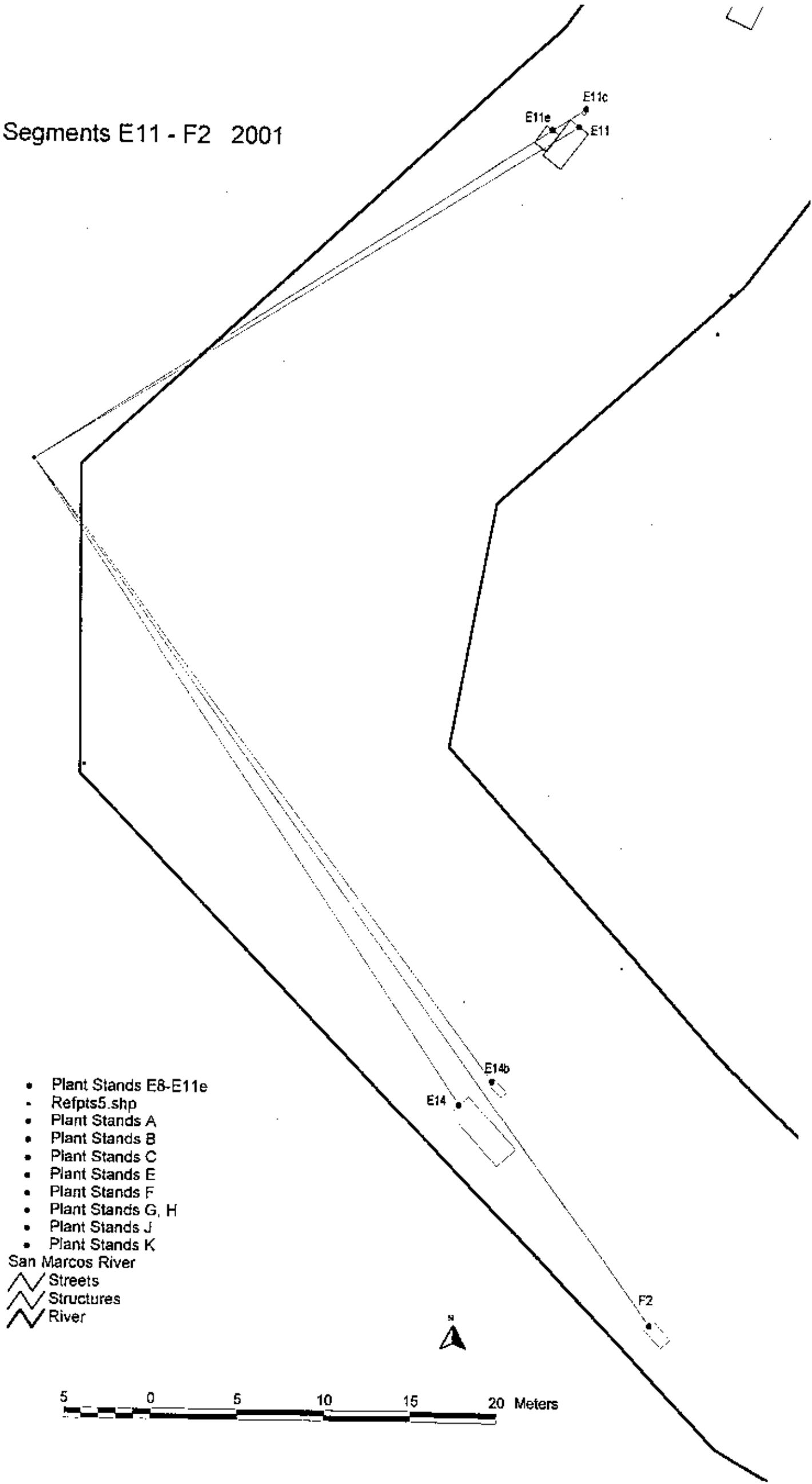


5 0 5 10 15 20 Meters

## Segment I4 1996



Segments E11 - F2 2001



Segments J15 - J19 1989

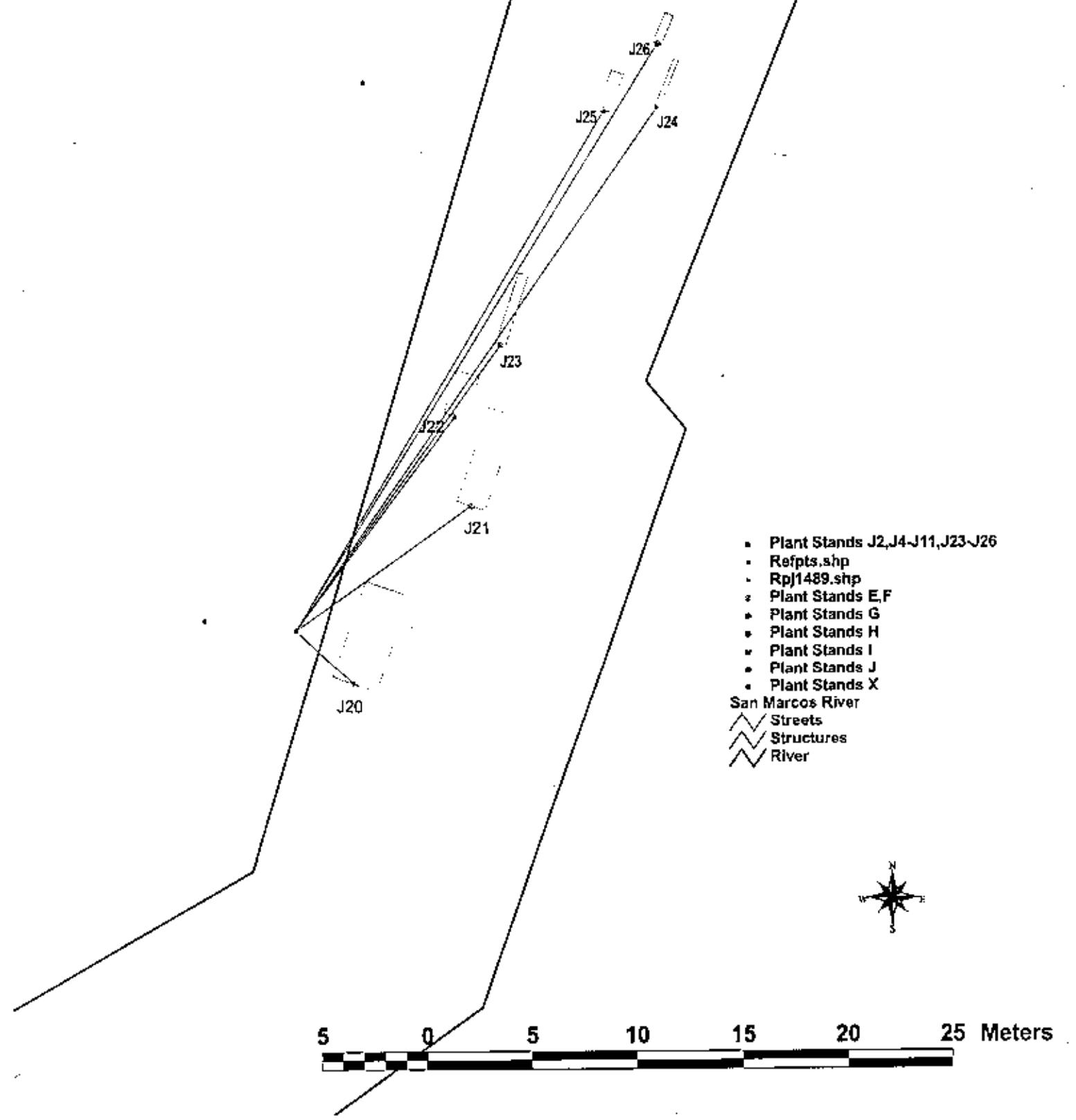
- Plant Stands J15-J19
- Plant Stands E,F
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands J
- Plant Stands J2,J4-J11,J23-J26
- Plant Stands X
- Refpts.shp
- Rpj1489.shp

San Marcos River

- △ Streets
- ▲ Structures
- ◆ River



**Segment J20 - J26 1989**



116

115

**Segment J1 - J7 1989**

J1  
111  
J2  
112

J3

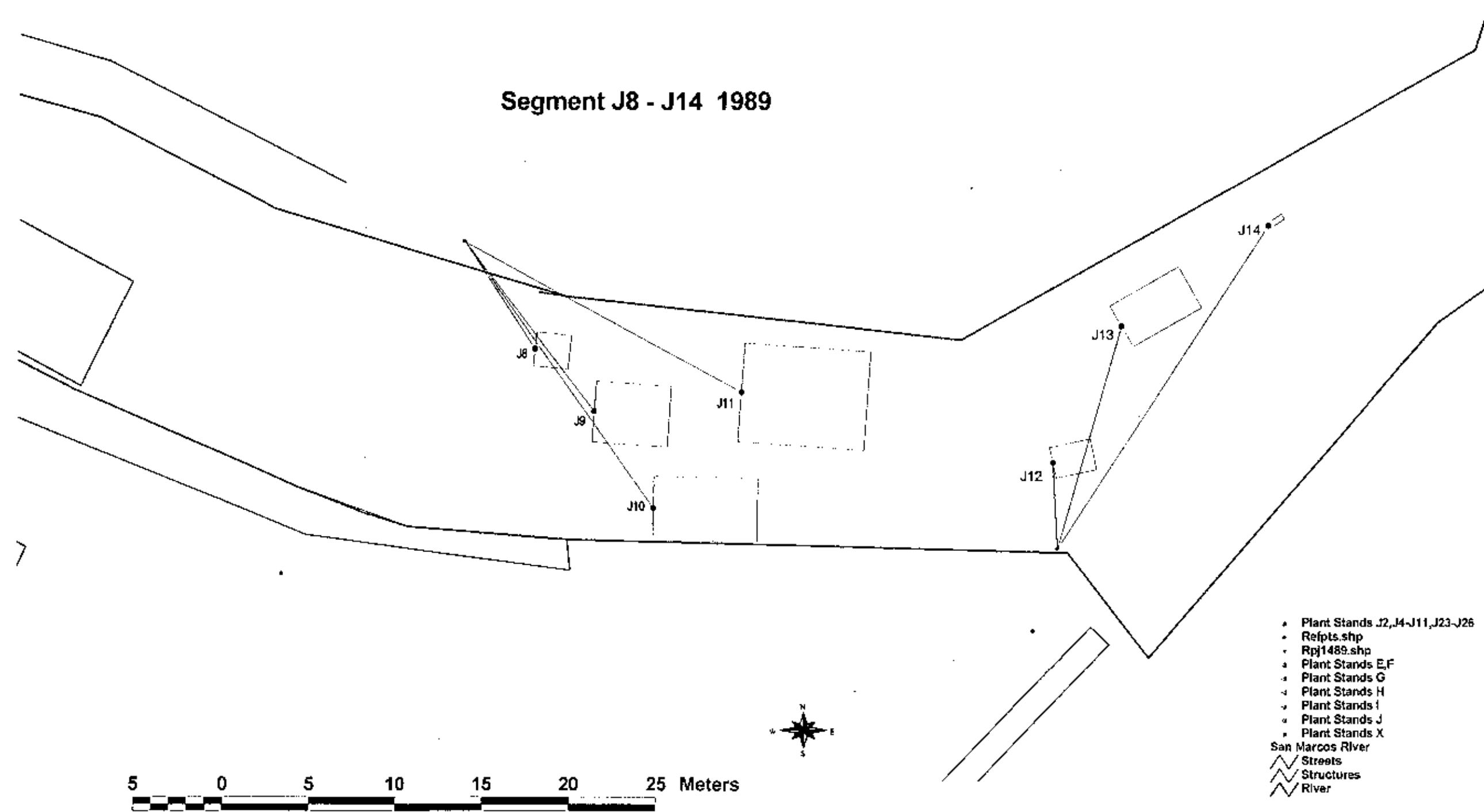
176



5 0 5 10 15 20 25 Meters

- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stand C3
- Plant Stands E,F
- Plant Stands E8a, E9-E13
- Plant Stands F2,F8-F12
- Plant Stand F10
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands H2,I2,I3,K36
- Plant Stands J3,K11,K22
- Plant Stands X
- Plant Stands J
- Plant Stands J2,J4-J11,J23-J26
- Plant Stands J15-J19
- Plant Stands K,L
- Plant Stands K23, K24
- Plant Stands K27,K36,K38-K40,K42-K44
- Plant Stand M1
- Rp1989.shp
- Rp1489.shp
- Rp171.shp
- San Marcos River
- Streets
- Structures
- River

## Segment J8 - J14 1989



Segment J20 - J26 1990

- ▲ Plant Stands A
- ▲ Plant Stands B
- Plant Stands C
- Plant Stands E,F
- ◆ Plant Stands G
- ◆ Plant Stands H
- ◆ Plant Stands I
- ◆ Plant Stands J
- ◆ Plant Stands K,L

San Marcos River

Streets

Structures

River



5 0 5 10 15 20 Meters

## Segment J27 - K10 1989

**Plant Stands K,L  
Refpts2.shp**  
**Plant Stands J15-J19**  
**Plant Stands E,F**  
**Plant Stands G**  
**Plant Stands H**  
**Plant Stands I**  
**Plant Stands J**  
**Plant Stands J2,J4-J11,J23-J26**  
**Plant Stands X**

**San Marcos River**

-  Streets
-  Structures
-  River



5 0 5 10 15 20 Meters

Segment J1 - J6 1990

- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stand B16
- Plant Stands C
- Plant Stands C5-C6,1,C9,C9a
- Plant Stands E,F
- Plant Stands G
- Plant Stands H
- Plant Stands H2,I2,I3
- Plant Stands I
- Plant Stands J
- Plant Stands J4,J5,J8-J11
- Plant Stands J27,K1-K5,K29-K31
- Plant Stands J3,K11,K22
- Plant Stands K,L
- Plant Stands K11-K22,K31
- Plant Stands K23, K24
- Plant Stand K45
- Plant Stands F4-F6, F8-F15

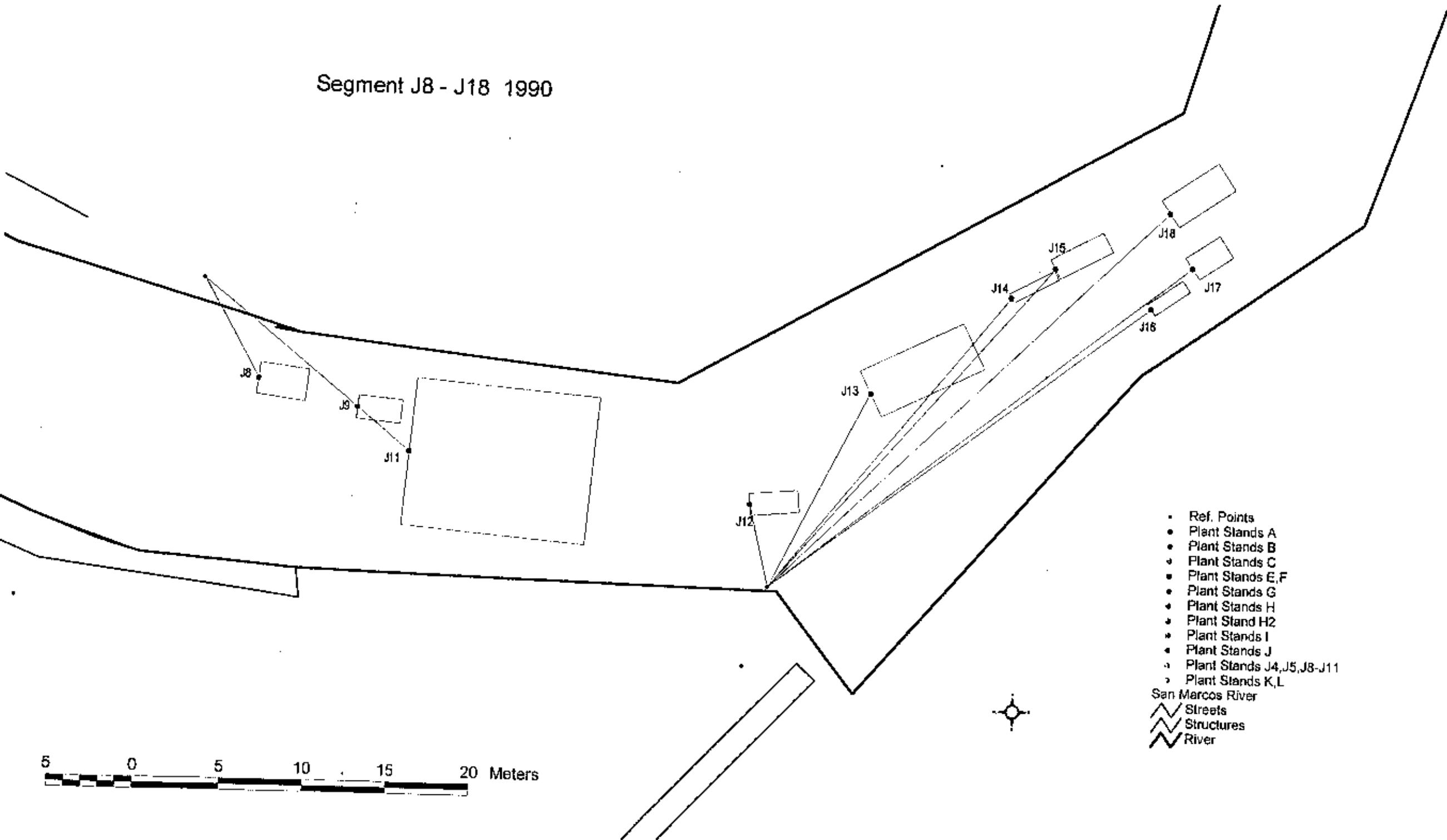
San Marcos River

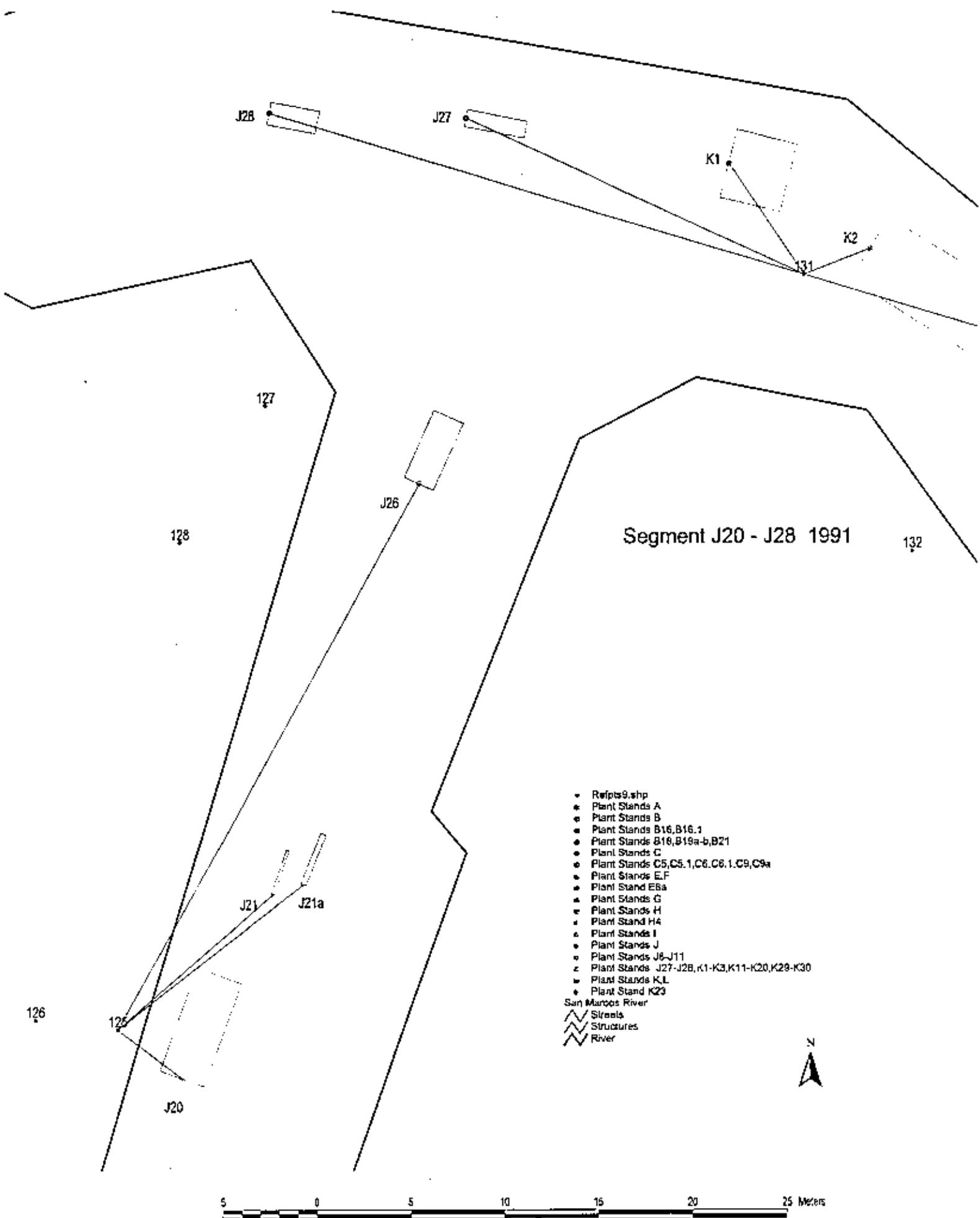
- △ Streets
- △ Structures
- △ River



5 0 5 10 15 20 Meters

Segment J8 - J18 1990





Segment J1 - J6 1991

J1  
111  
112

J3

\*176

5 0 5 10 15 Meters



San Marcos River

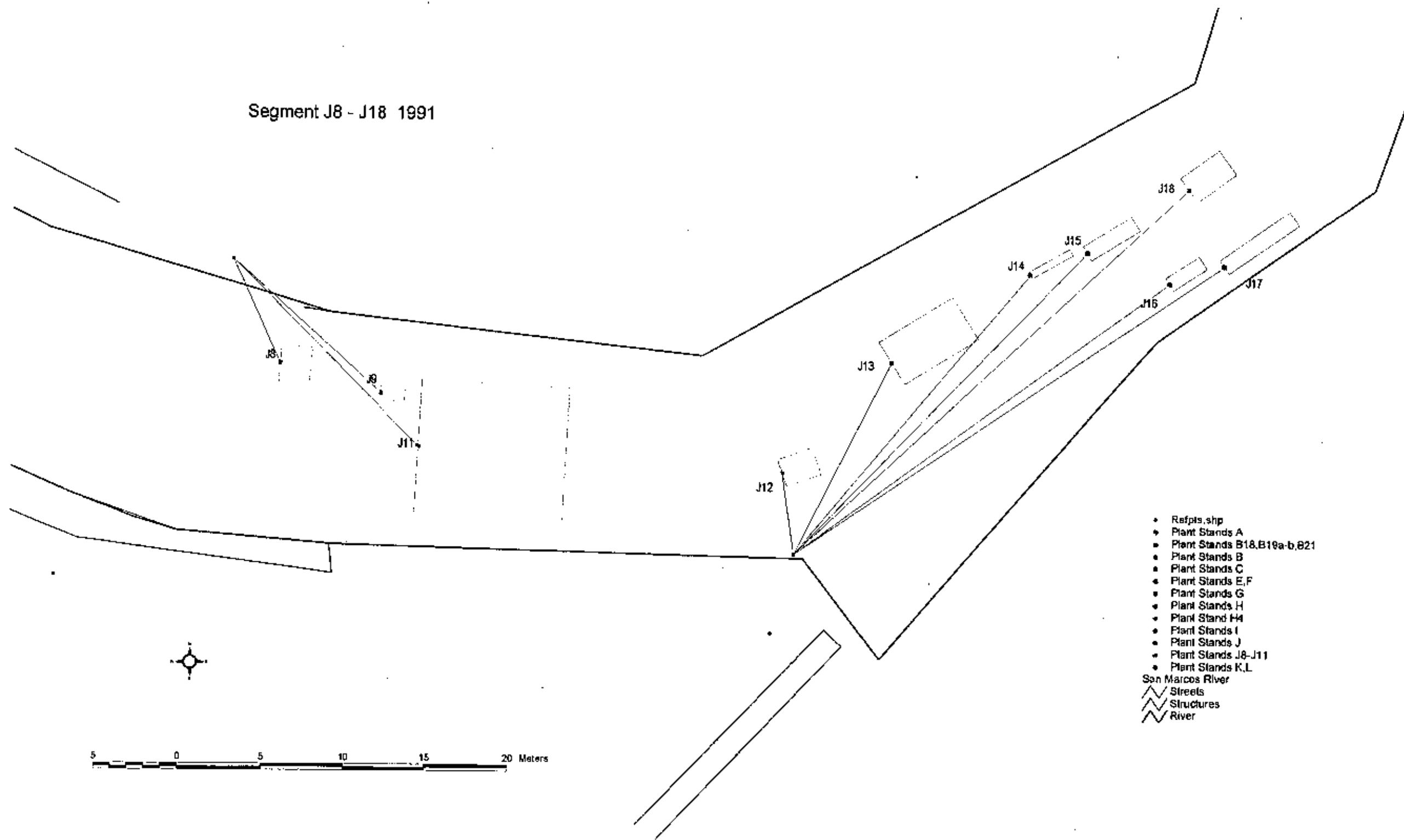
- Streets
- Structures
- River

J6  
J5  
118

J4

- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands B16,B16.1
- Plant Stands B18,B19a-b,B21
- Plant Stands C
- Plant Stands C5,C5.1,C6,C6.1,C9,C9a
- Plant Stands E,F
- Plant Stand E8a
- Plant Stands G
- Plant Stands H
- Plant Stands H2,H3,H4
- Plant Stands I
- Plant Stands J
- Plant Stand J3
- Plant Stands J8-J11
- Plant Stands J27-J28,K1-K3,K11-K20,K29-K30
- Plant Stands K,L
- Plant Stand K23

Segment J8 - J18 1991



128

127

J26

132

125

J20

J22

J21

J28

K1

K2

K4.1

### Segments J20 - J28 1992

- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E
- Plant Stands E12.1, E13
- Plant Stands F
- Plant Stands F4.1, F4.2
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands J
- Plant Stands J28, K, L
- Plant Stand K23

San Marcos River

- △ Streets
- △ Structures
- △ River



5 0 5 10 15 20 Meters

A scale bar at the bottom of the map, ranging from 0 to 20 meters, with major tick marks at 5, 10, 15, and 20.

Segments J1 - J6a 1992

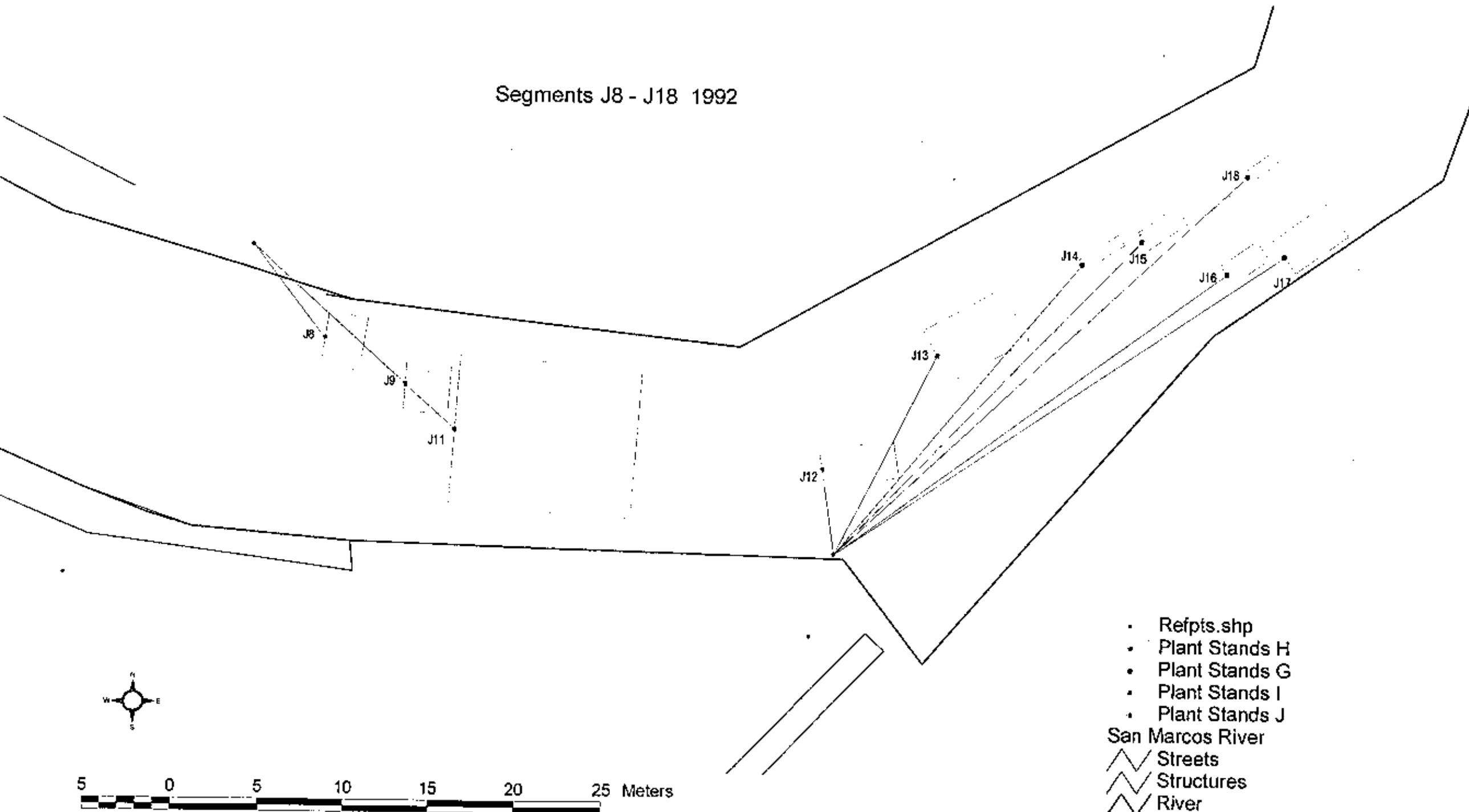
J1

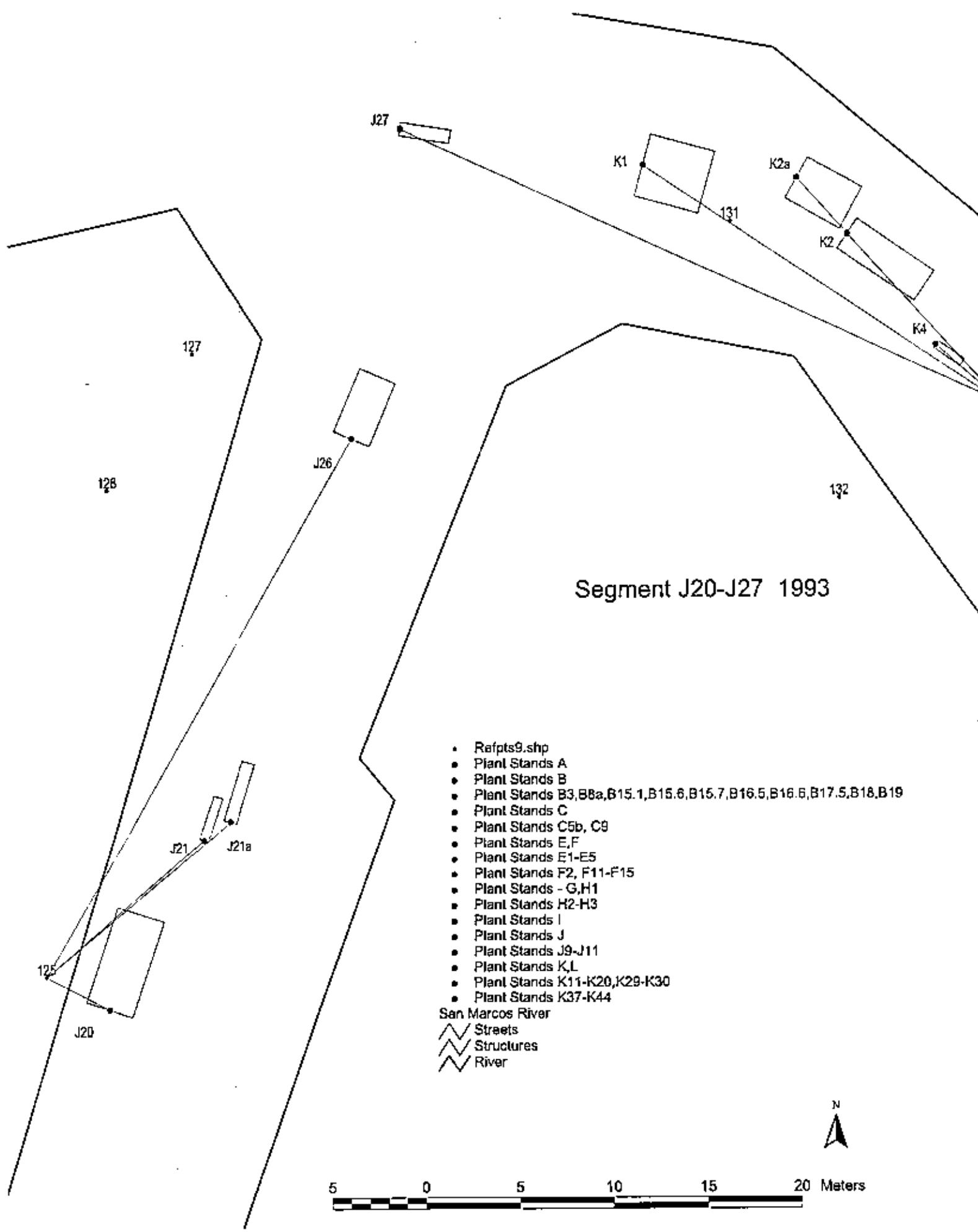
- Refpts.shp
  - Plant Stands H
  - Plant Stands G
  - Plant Stands I
  - Plant Stands J
- San Marcos River
- Streets
  - Structures
  - River

N

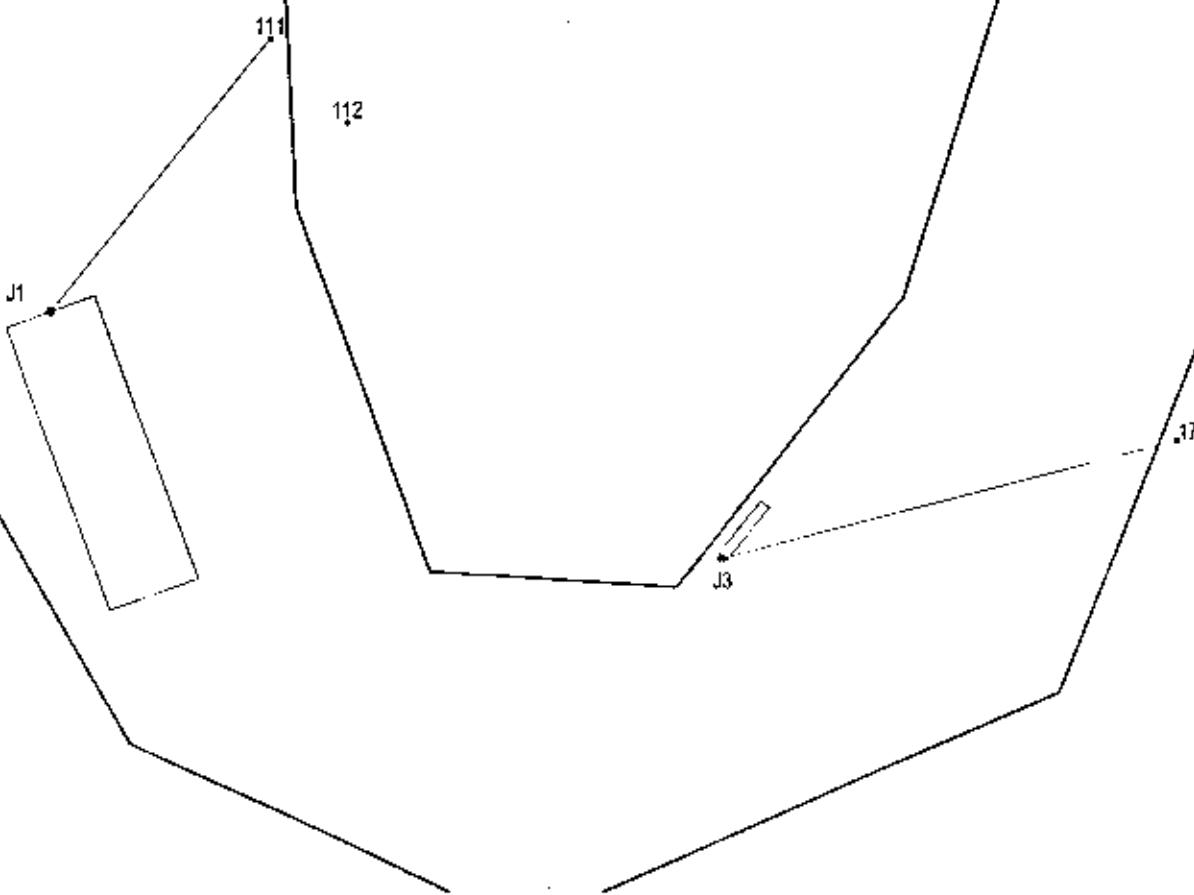
5 0 5 10 15 20 Meters

Segments J8 - J18 1992





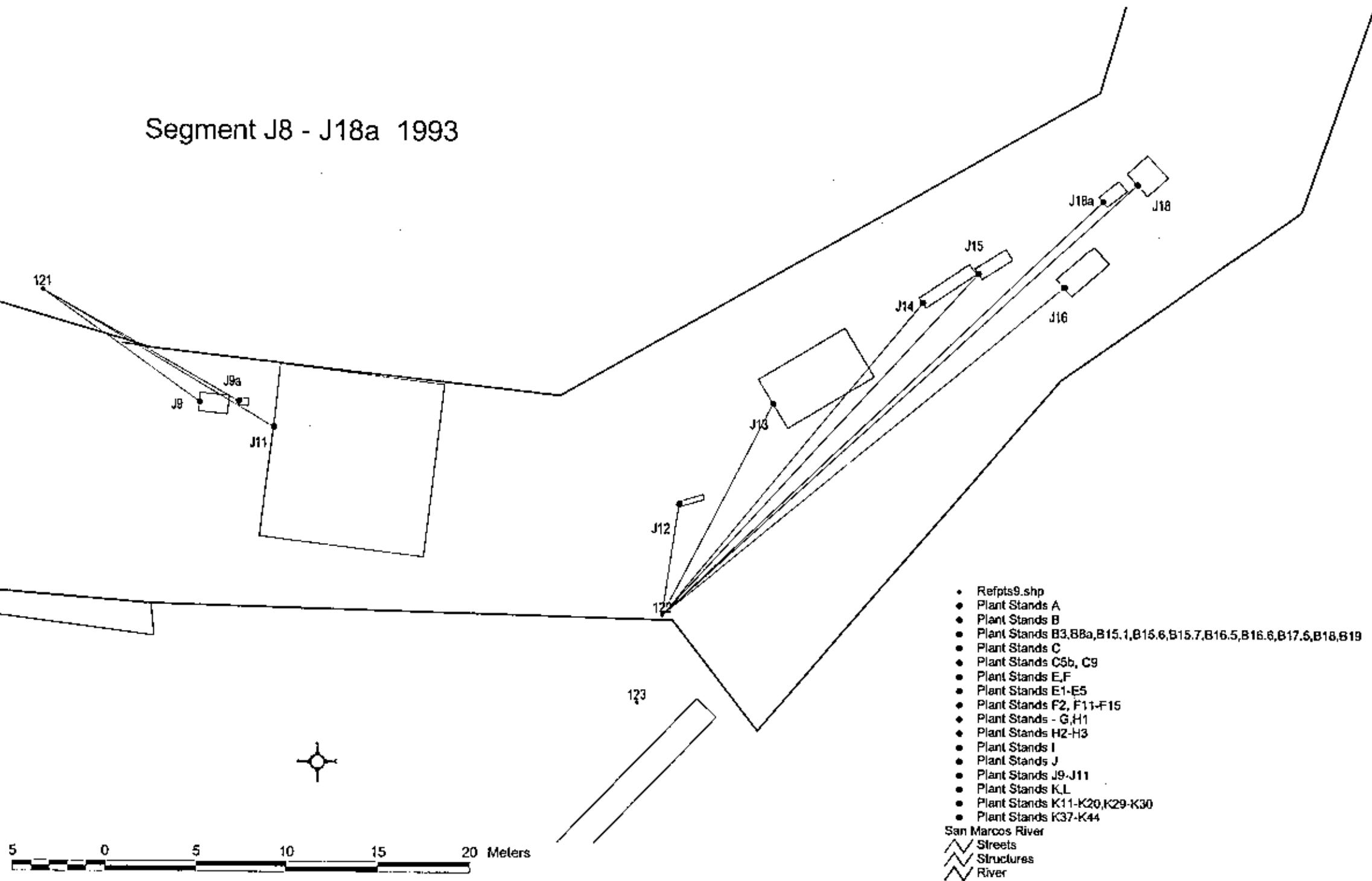
Segment J1 - J6 1993



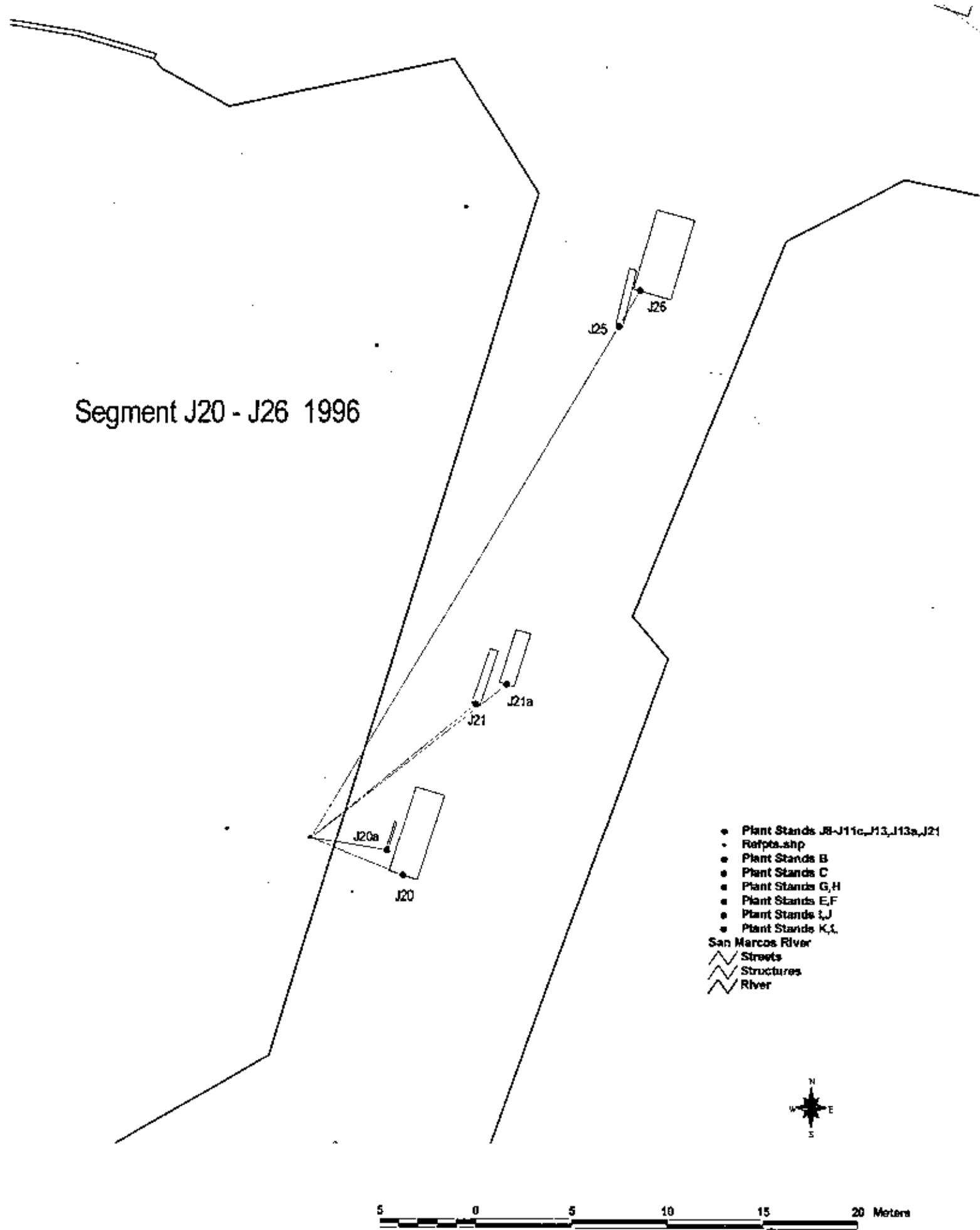
- Refpts9.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands B3,B8a,B15.1,B15.6,B15.7,B16.5,B16.6,B17.5,B18,B19
  - Plant Stands C
  - Plant Stands C5b, C9
  - Plant Stands E,F
  - Plant Stands E1-E5
  - Plant Stands F2, F11-F15
  - Plant Stands - G,H1
  - Plant Stands H2,H2b,H3
  - Plant Stands I
  - Plant Stands J
  - Plant Stands J3
  - Plant Stands J9-J11
  - Plant Stands K,L
  - Plant Stands K11-K20,K29-K30
  - Plant Stands K37-K44
- San Marcos River
- ▲ Streets
  - ▲ Structures
  - ▲ River

5 0 5 10 15 20 25 Meters

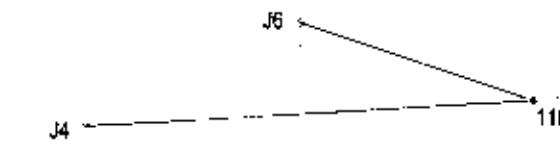
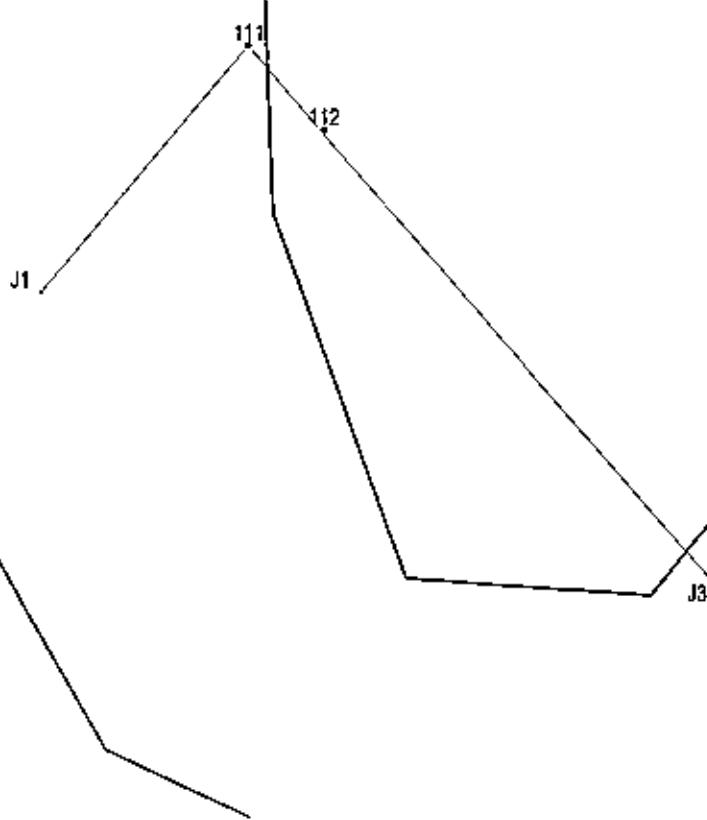
## Segment J8 - J18a 1993



Segment J20 - J26 1996



Segment J1 - J6 1994

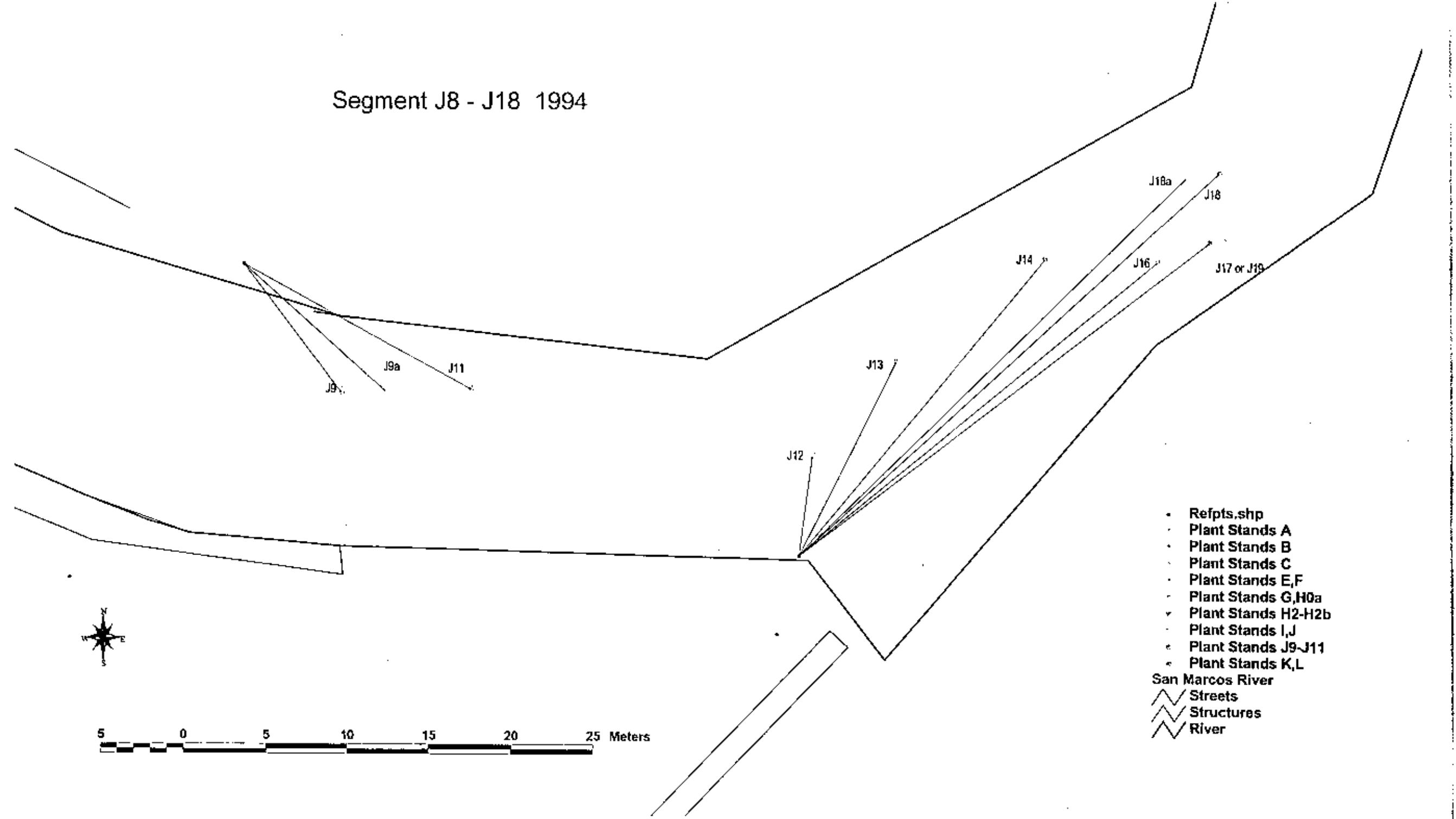


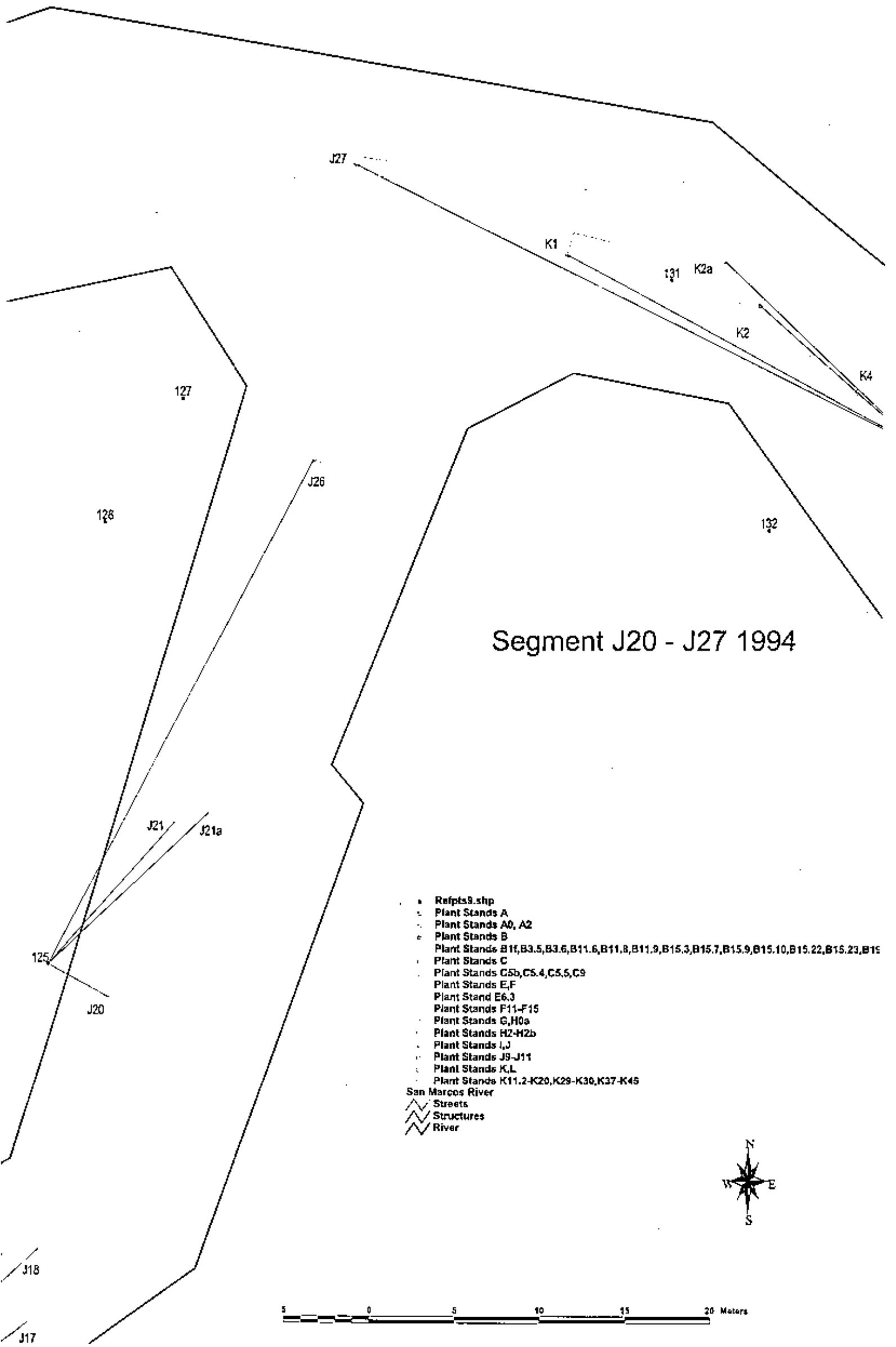
- Ruptile.vhp
- Plant Stands A,A2
- Plant Stands B
- Plant Stands B1,B3,5,B3,6,B11,6,B11,8,B11,9,B15,3,B15,7,B15,8,B15,10,B15,22,B15,23,B19
- Plant Stands C
- Plant Stands G,Ro,C5,4,C5,5,C8
- Plant Stands E,F
- Plant Stand E8,3
- Plant Stands F11-F15
- Plant Stands G,H0a
- Plant Stands H2-H2b
- Plant Stands I,J
- Plant Stands J9-J31
- Plant Stands K,L
- Plant Stands K11,2-K20,K29-K30,K37-K45
- San Marcos River
- Streets
- Structures
- River



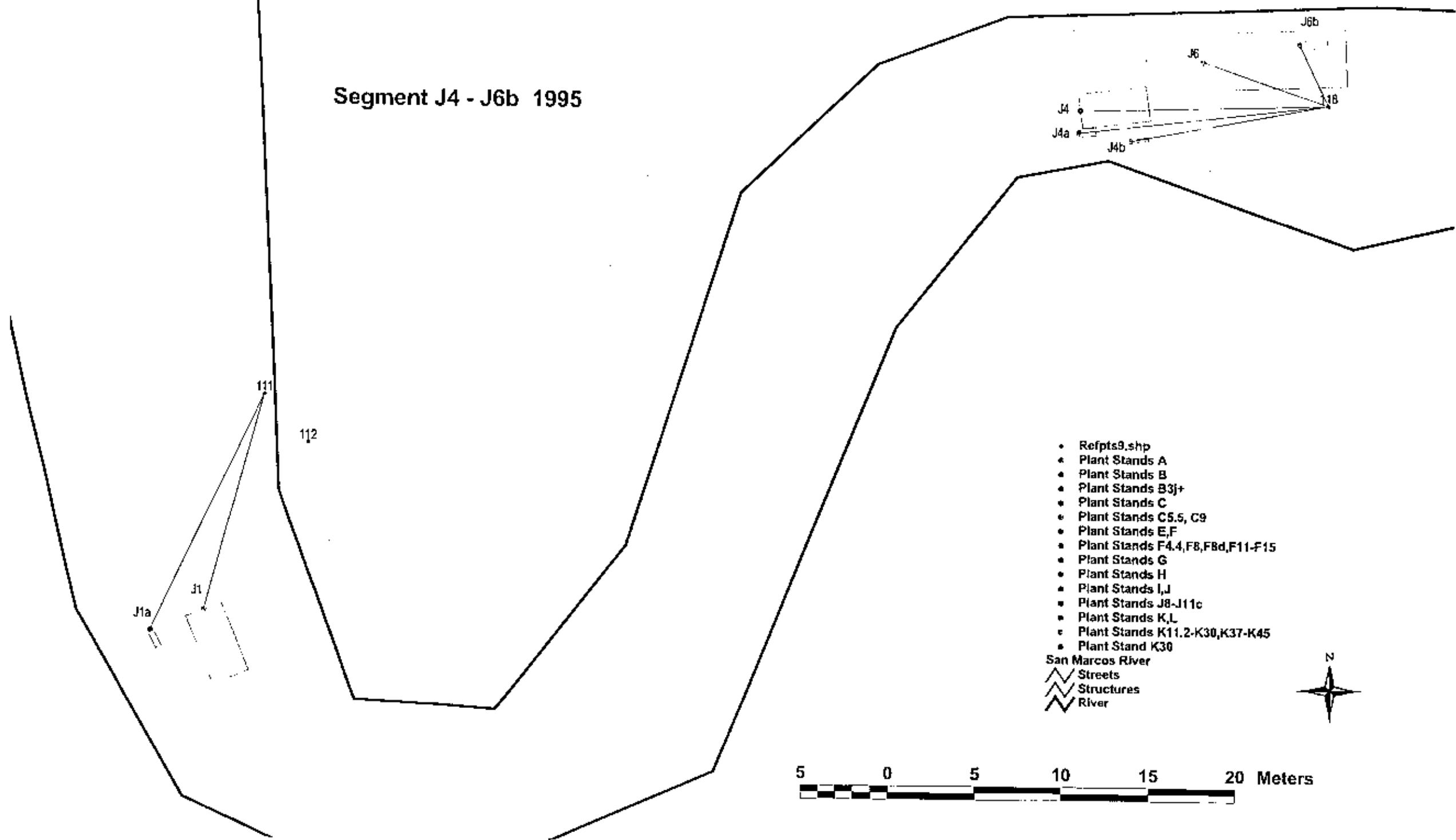
5 0 5 10 15 20 25 Meters

## Segment J8 - J18 1994

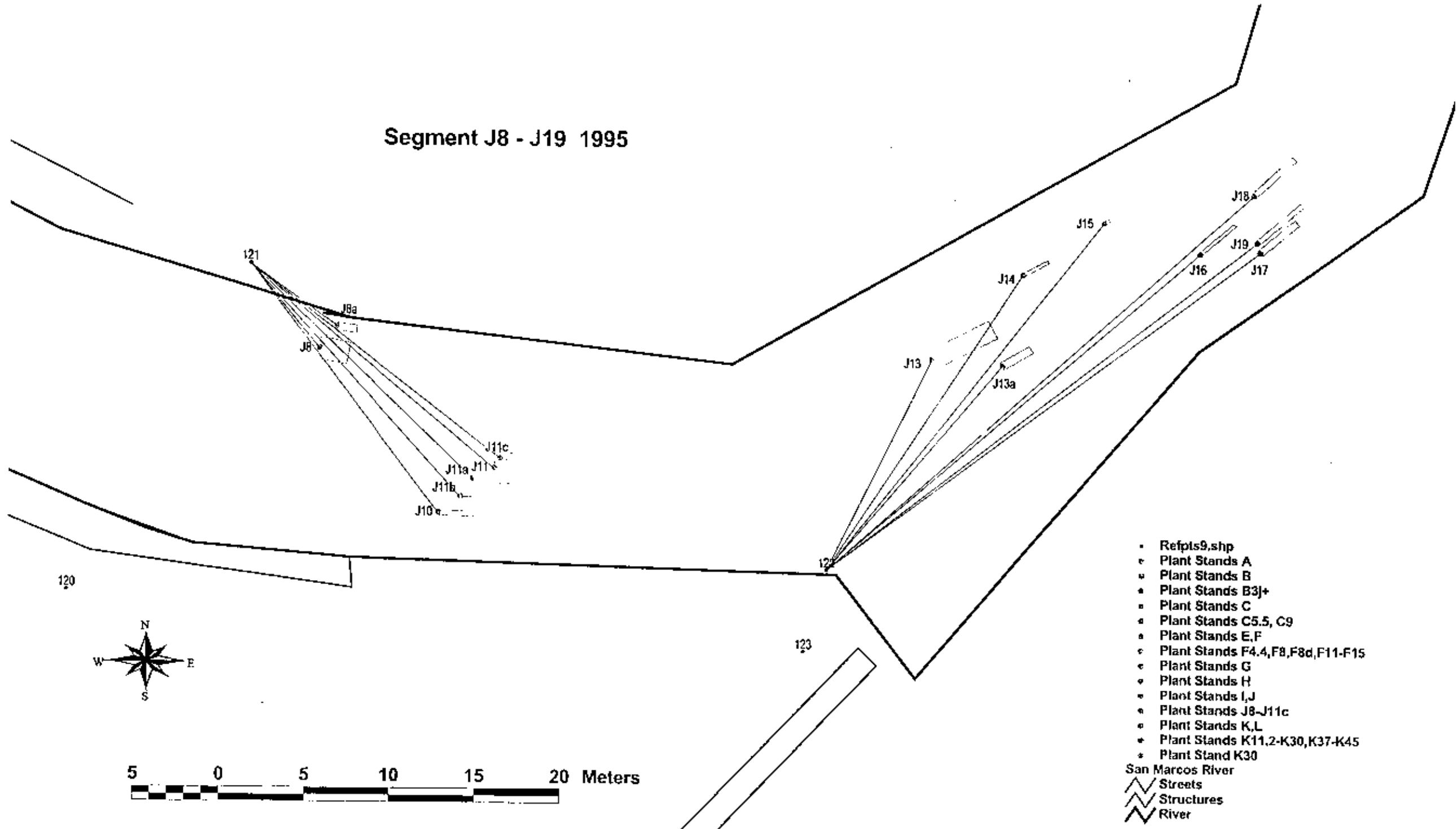


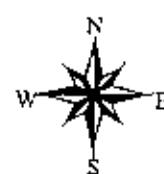
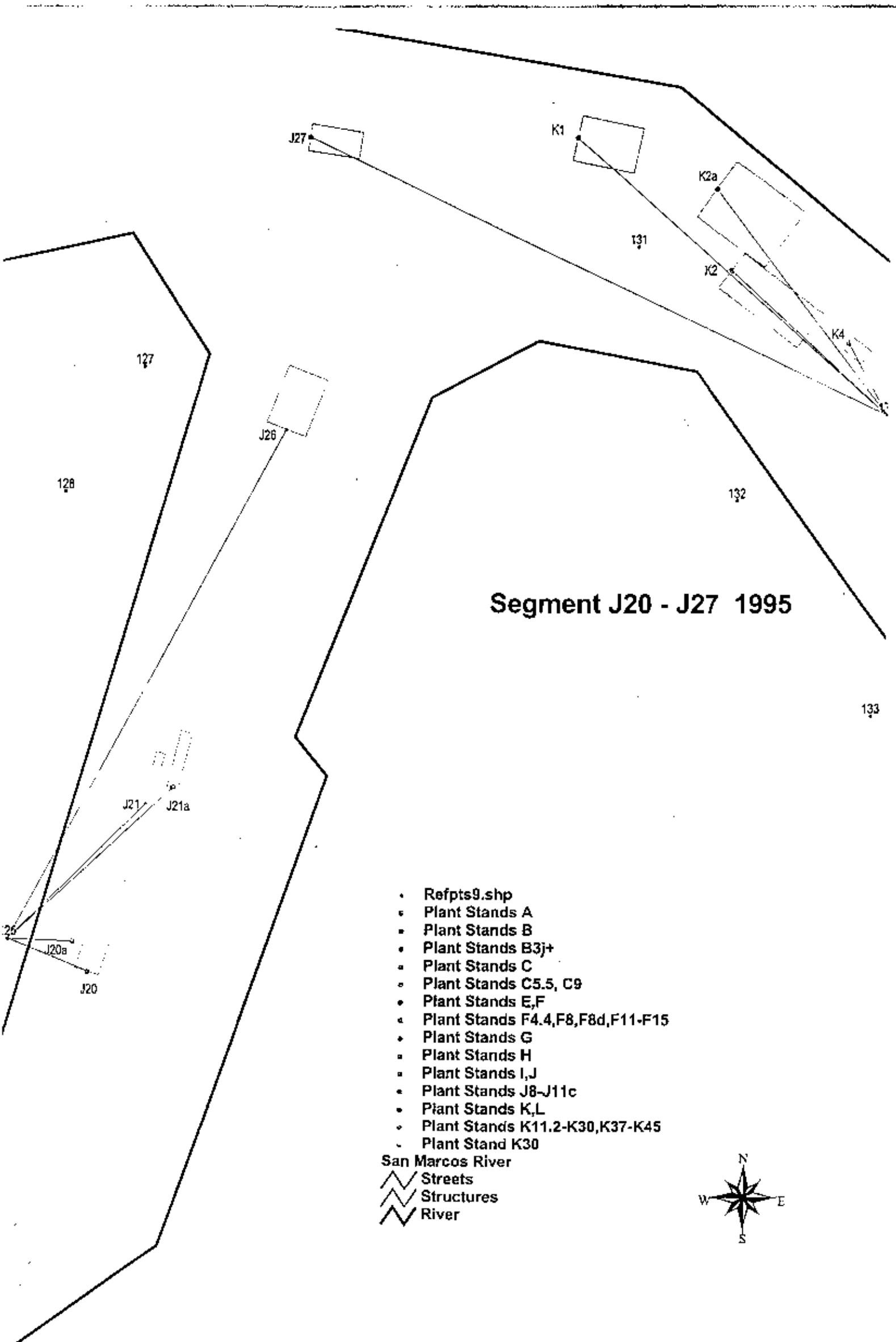


## Segment J4 - J6b 1995



## Segment J8 - J19 1995



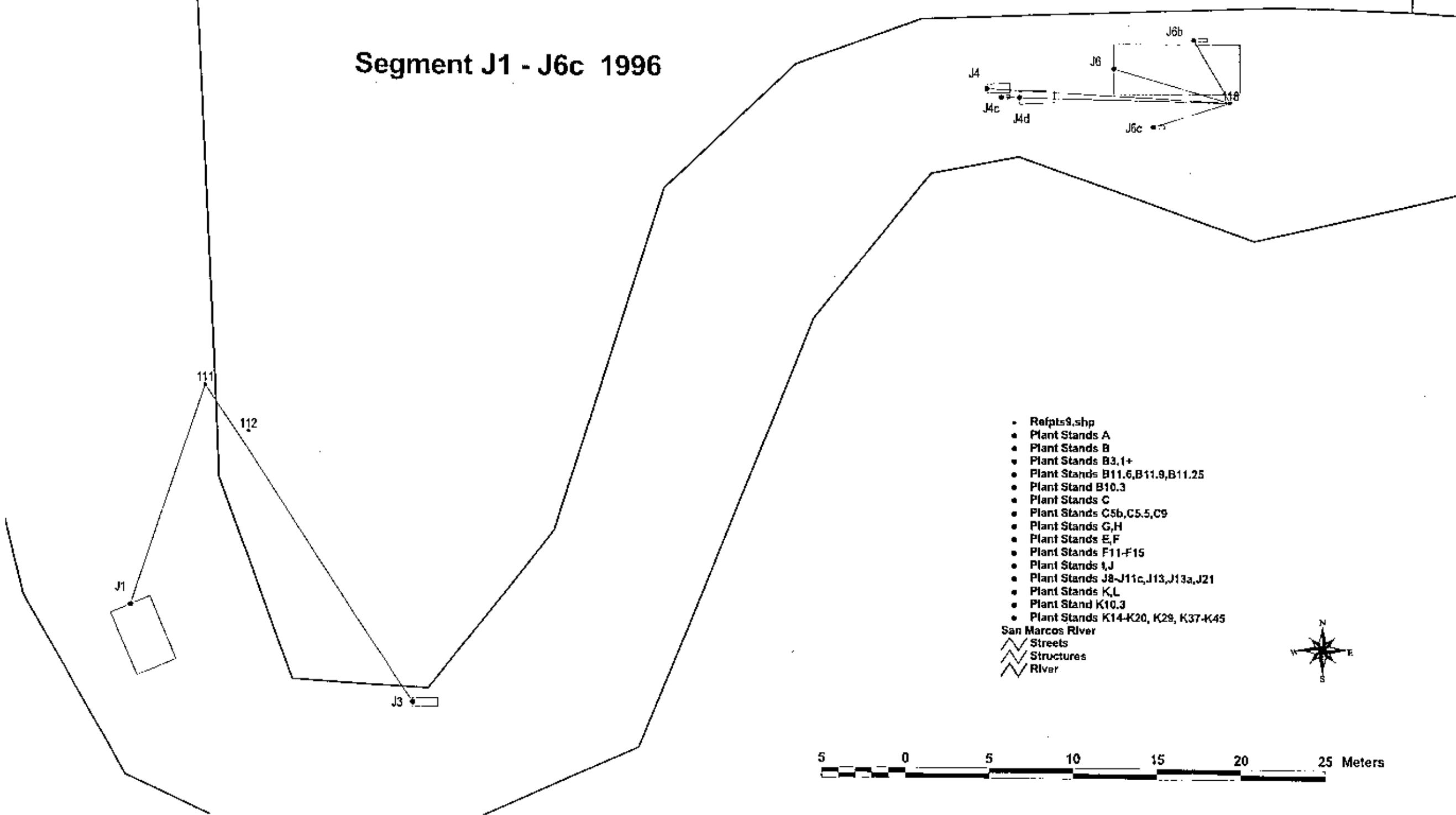


5 0 5 10 15 20 Meters

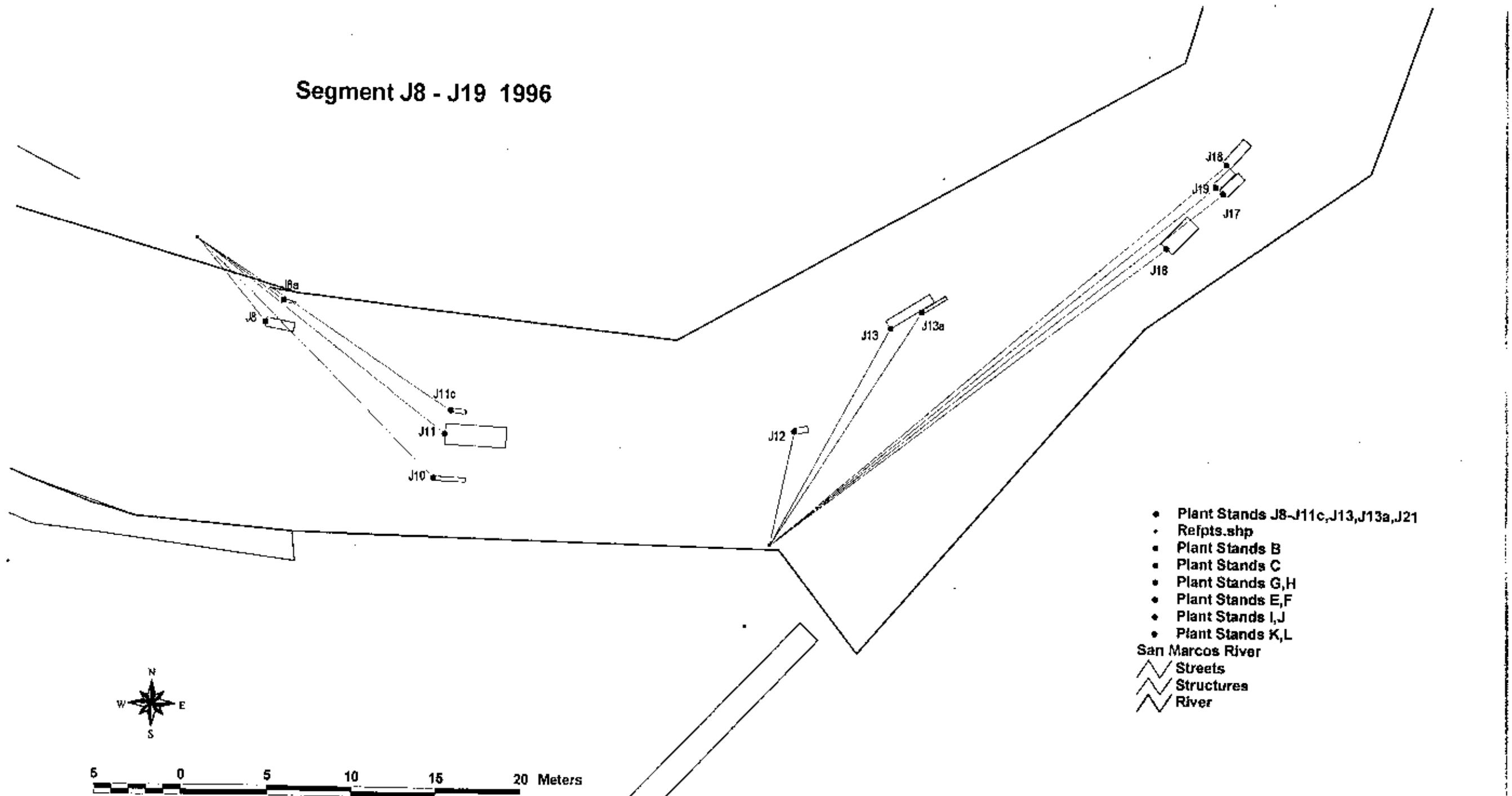
116

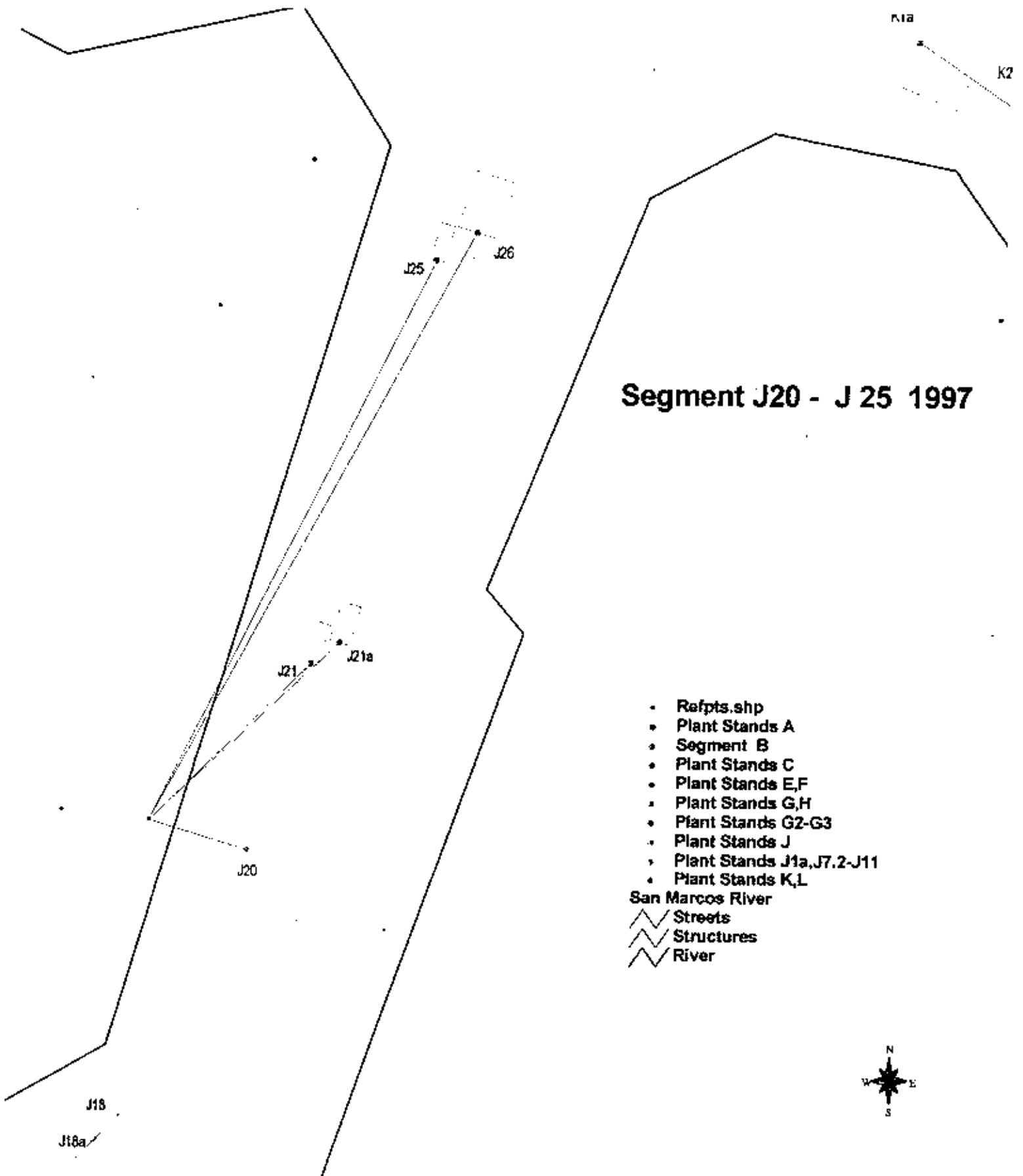
115

## Segment J1 - J6c 1996



## Segment J8 - J19 1996





5 0 5 10 15 20 25 Meters

**Segment J1 - J6e 1997**

J4 J6 J6d J6e  
J11 J18 J6c

J1 J1a 111 112

- Refpts9.shp
- Plant Stands A
- Segment B
- Plant Stands B1.1+
- Plant Stands C
- Plant Stands C2a,C5b,C5.5,C7,C9-C9d
- Plant Stands E,F
- Plant Stands E0, E14
- Plant Stands F3-F5.1,F7,F11-F15
- Plant Stands G,H
- Plant Stands G2-G3
- Plant Stands J
- Plant Stands J1a,J7.2~J11
- Plant Stands K,L
- Plant Stands K18.1-K20, K37-K45

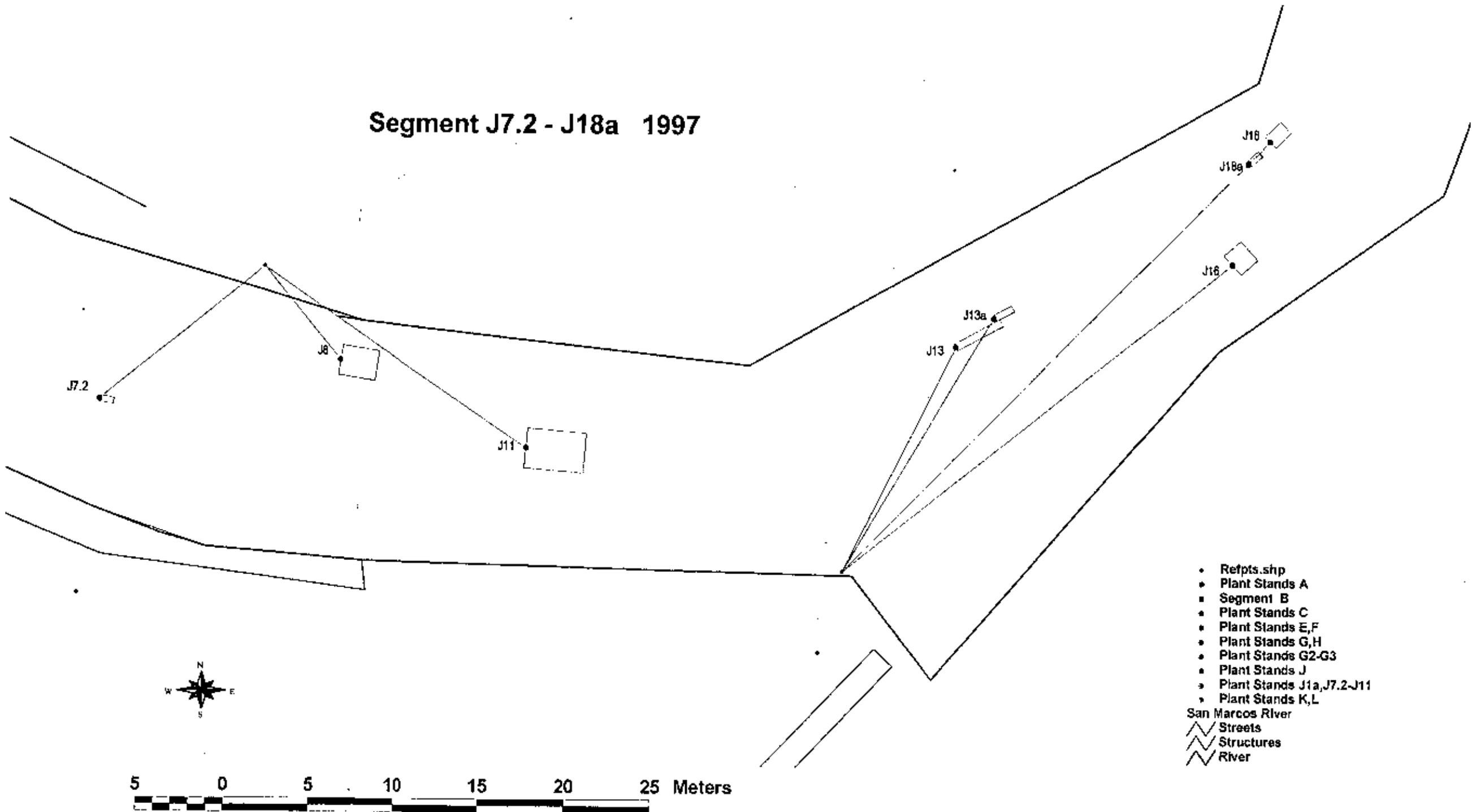
**San Marcos River**

- ~~ Streets
- ~~~~ Structures
- ~~~~~ River

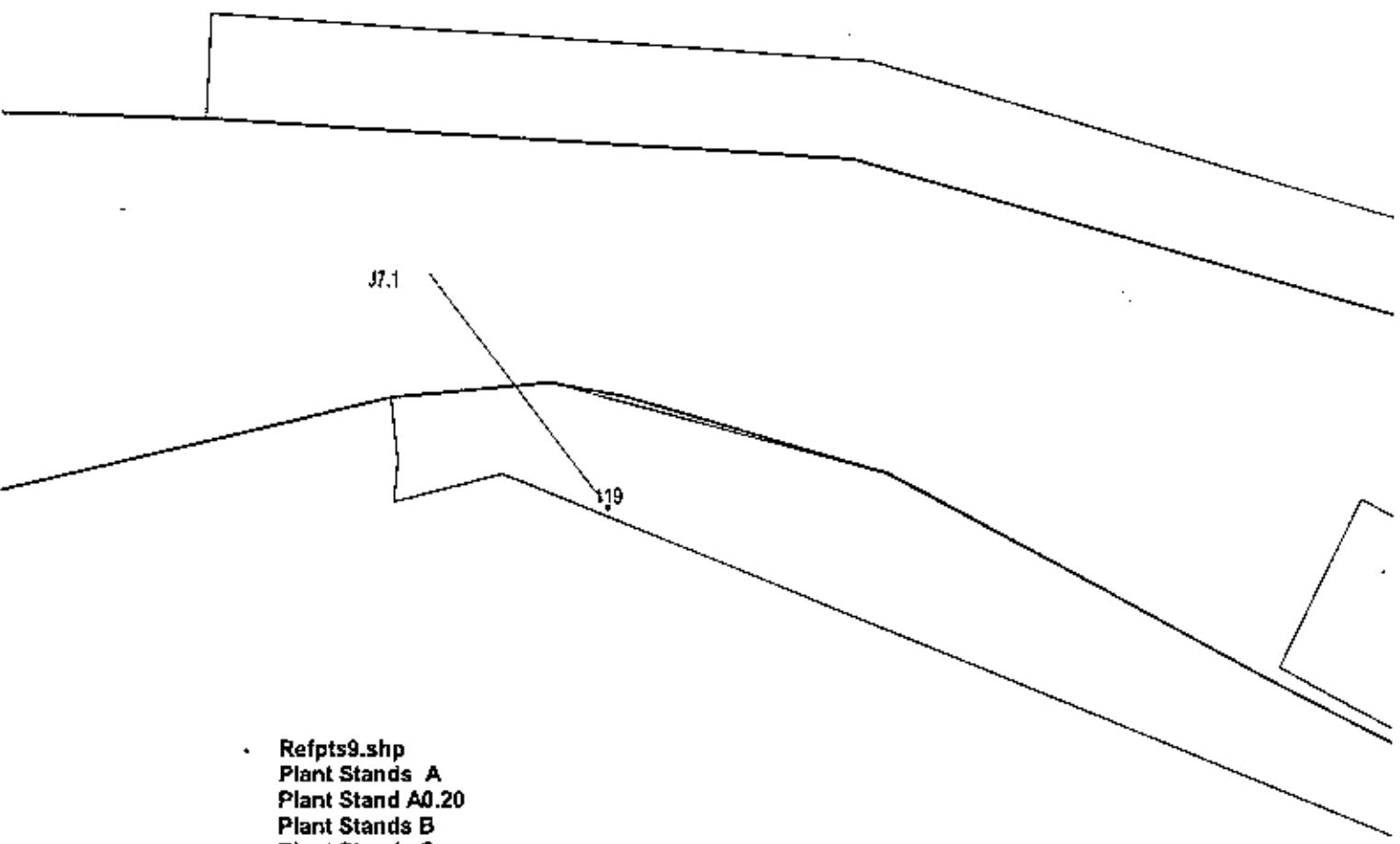


5 0 5 10 15 20 25 Meters

## Segment J7.2 - J18a 1997



## Segment J7.1 1998



- Refpts9.shp
- Plant Stands A
- Plant Stand A0.20
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stand E9.1
- Plant Stands F7,F11-F16
- Plant Stands G
- Plant Stands H
- Plant Stands J
- Plant Stands J7.2-J11
- Plant Stands K
- Plant Stands K18.1-K20.1, K37-K45
- San Marcos River
- Streets
- Structures
- River



**Segment J1 - J6e 1998**

116

115

117

J1

111

112

113



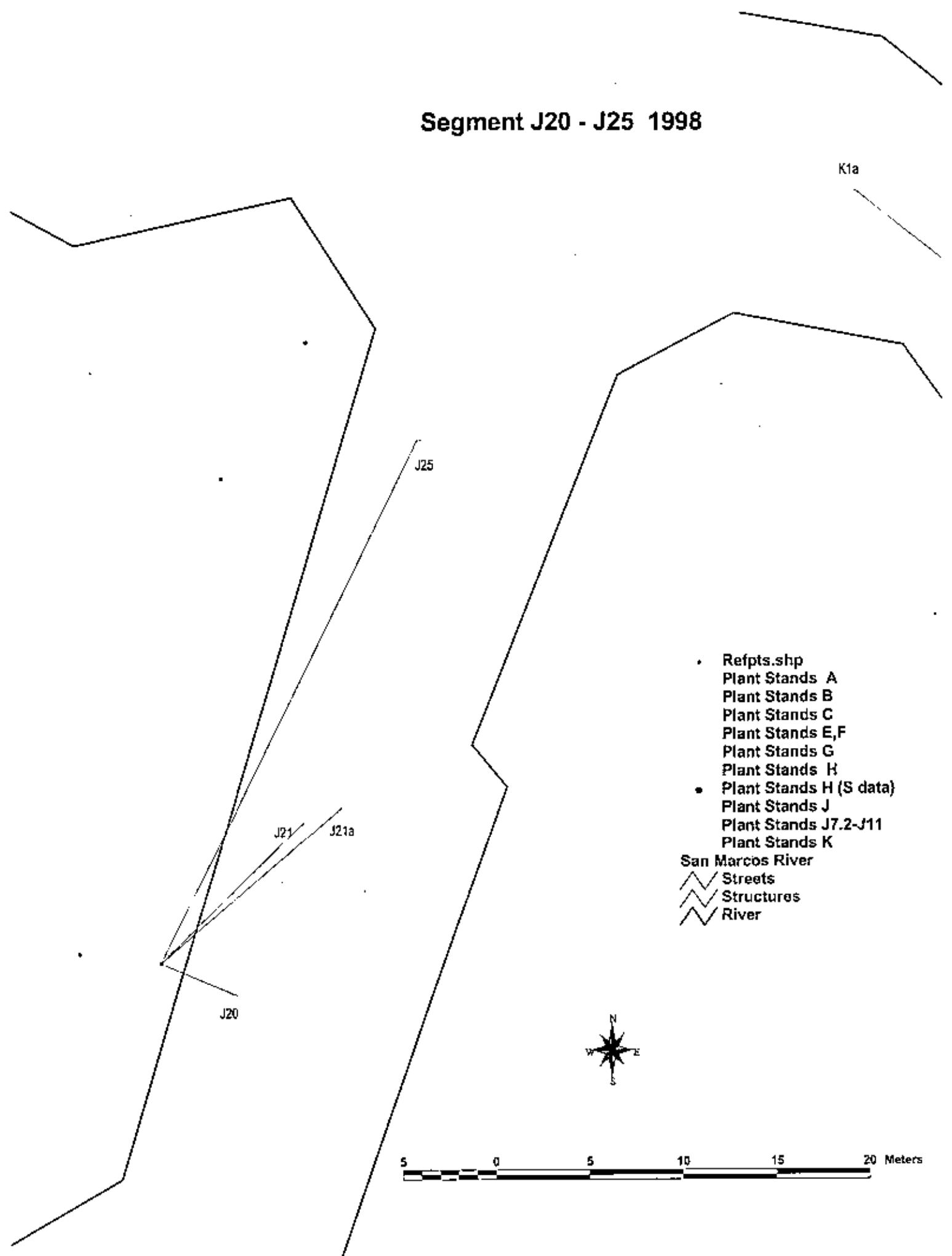
5 0 5 10 15 20 25 Meters

- Refpts9.shp
- Plant Stands A
- Plant Stand A0.20
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stand E9.1
- Plant Stands F7,F11-F16
- Plant Stands G
- Plant Stands H
- Plant Stands J
- Plant Stands J7.2-J11
- Plant Stands K
- Plant Stands K18.1-K20.1, K37-K45

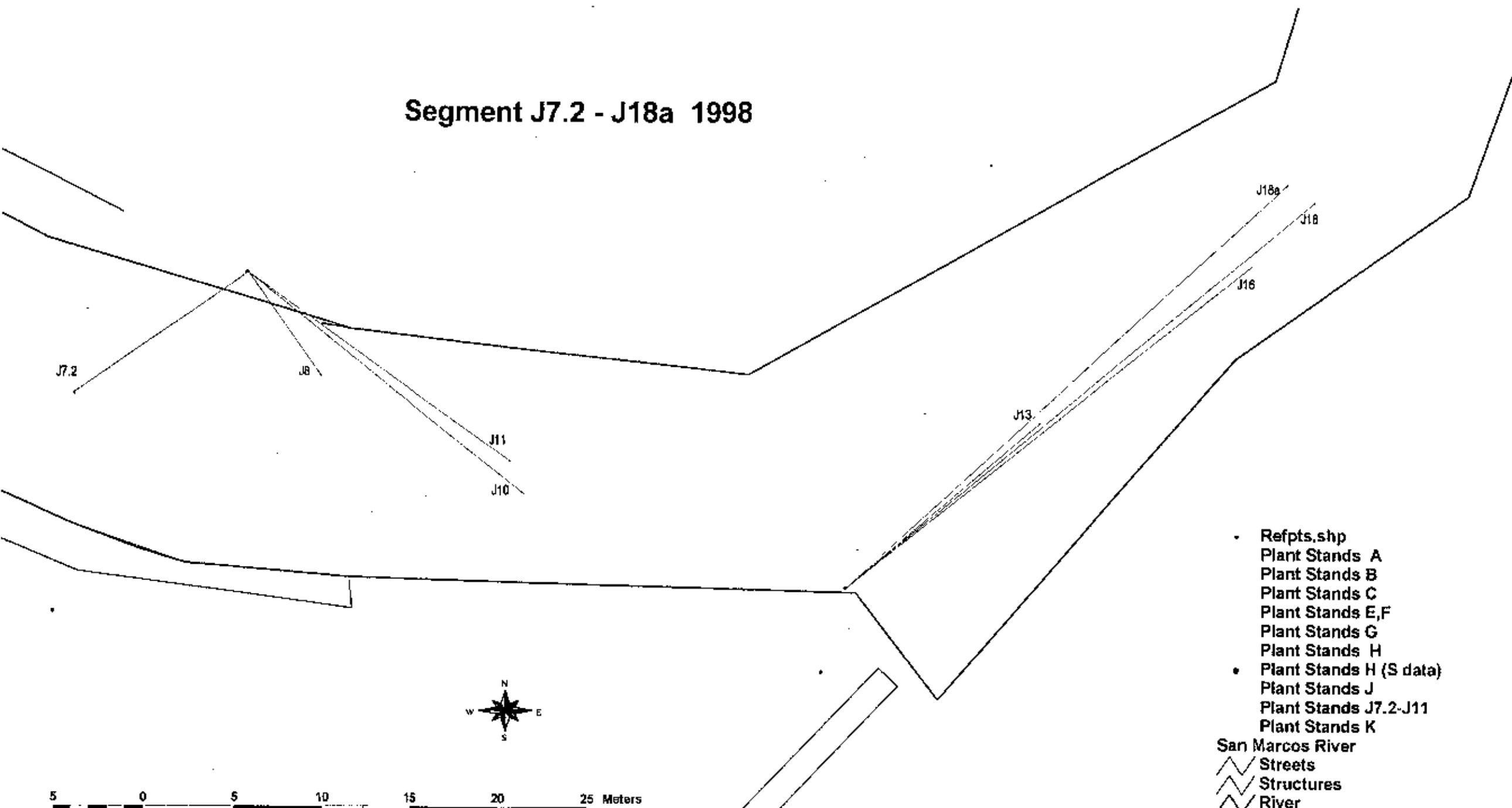
San Marcos River

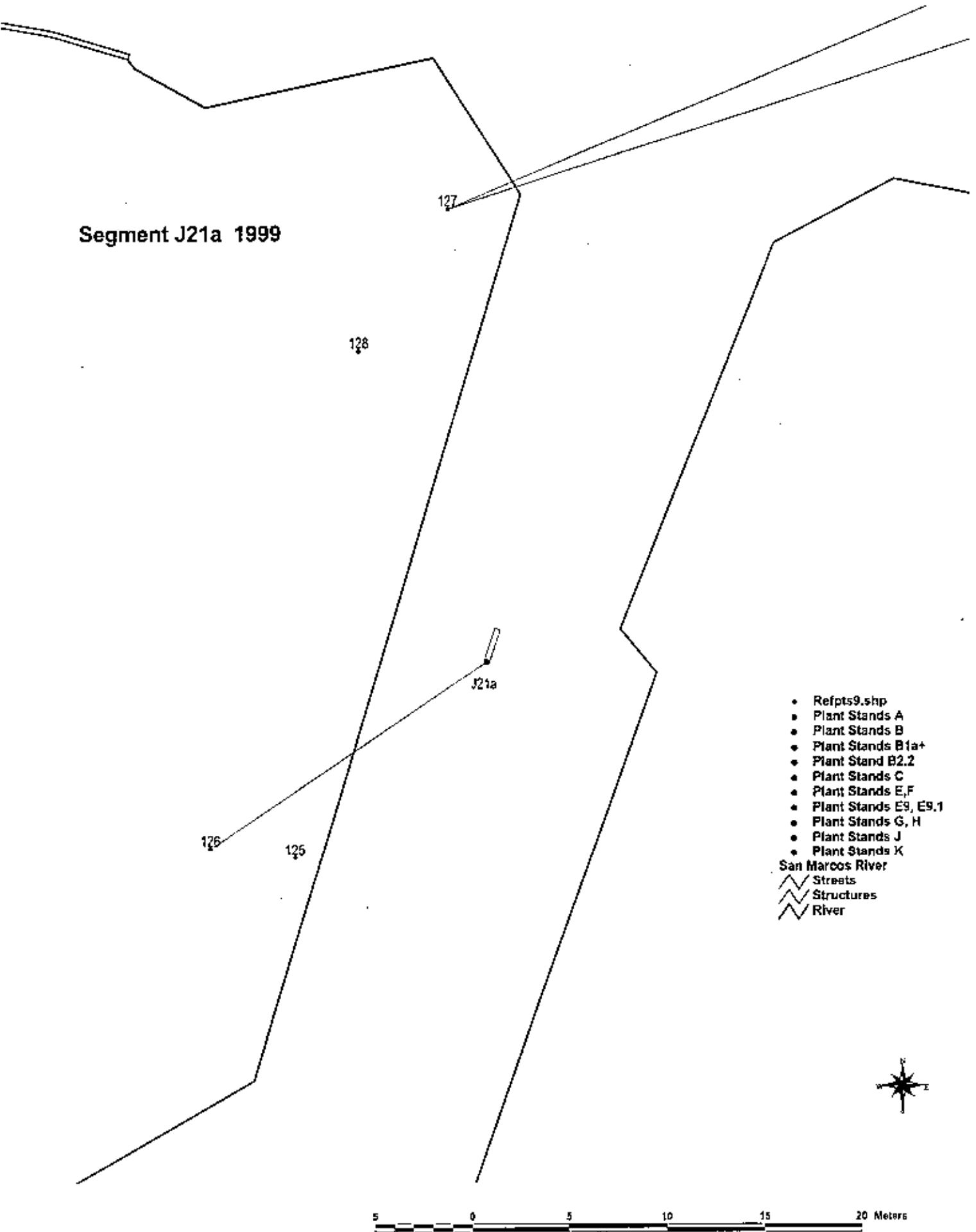
- Streets
- Structures
- River

## Segment J20 - J25 1998

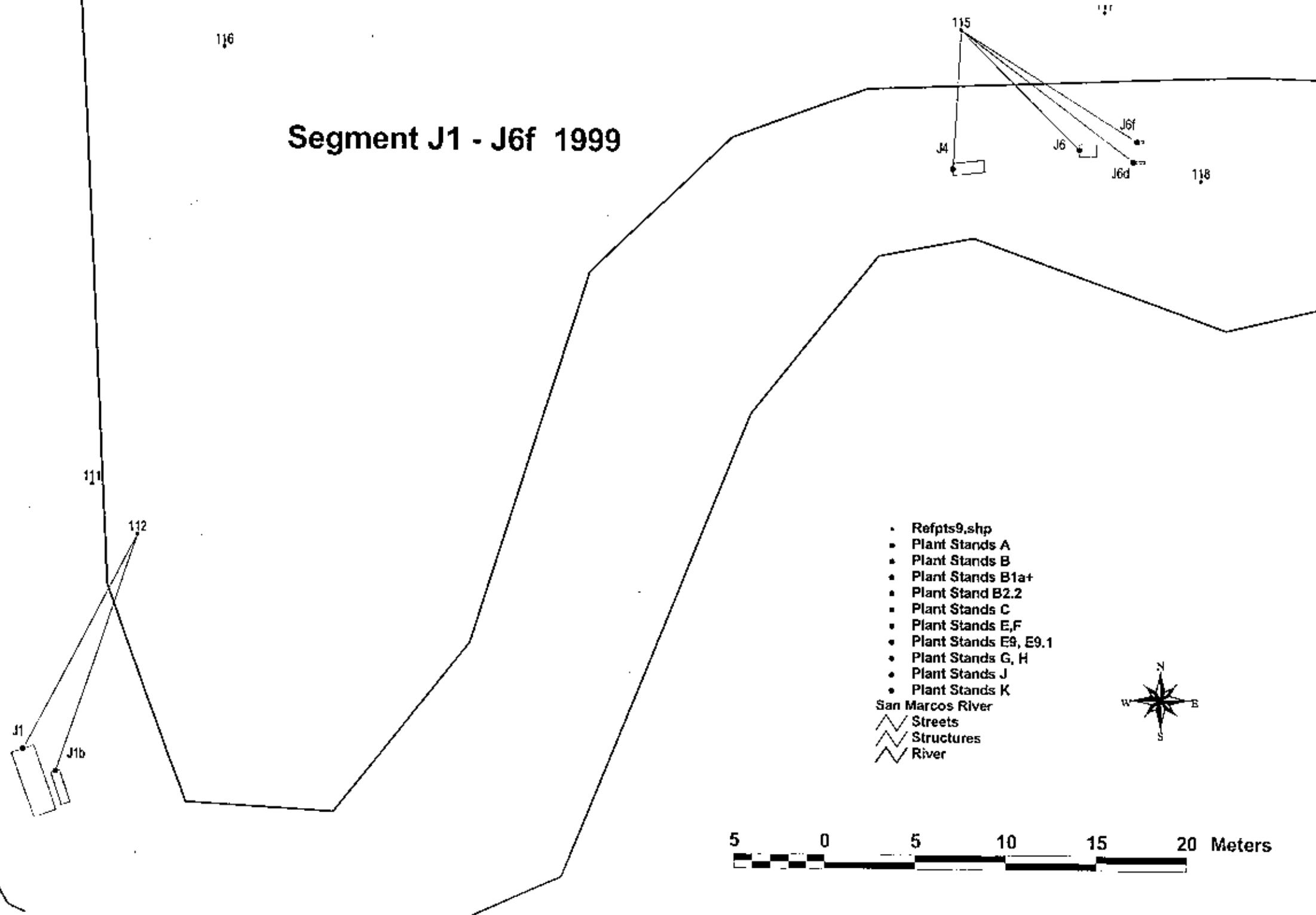


## Segment J7.2 - J18a 1998



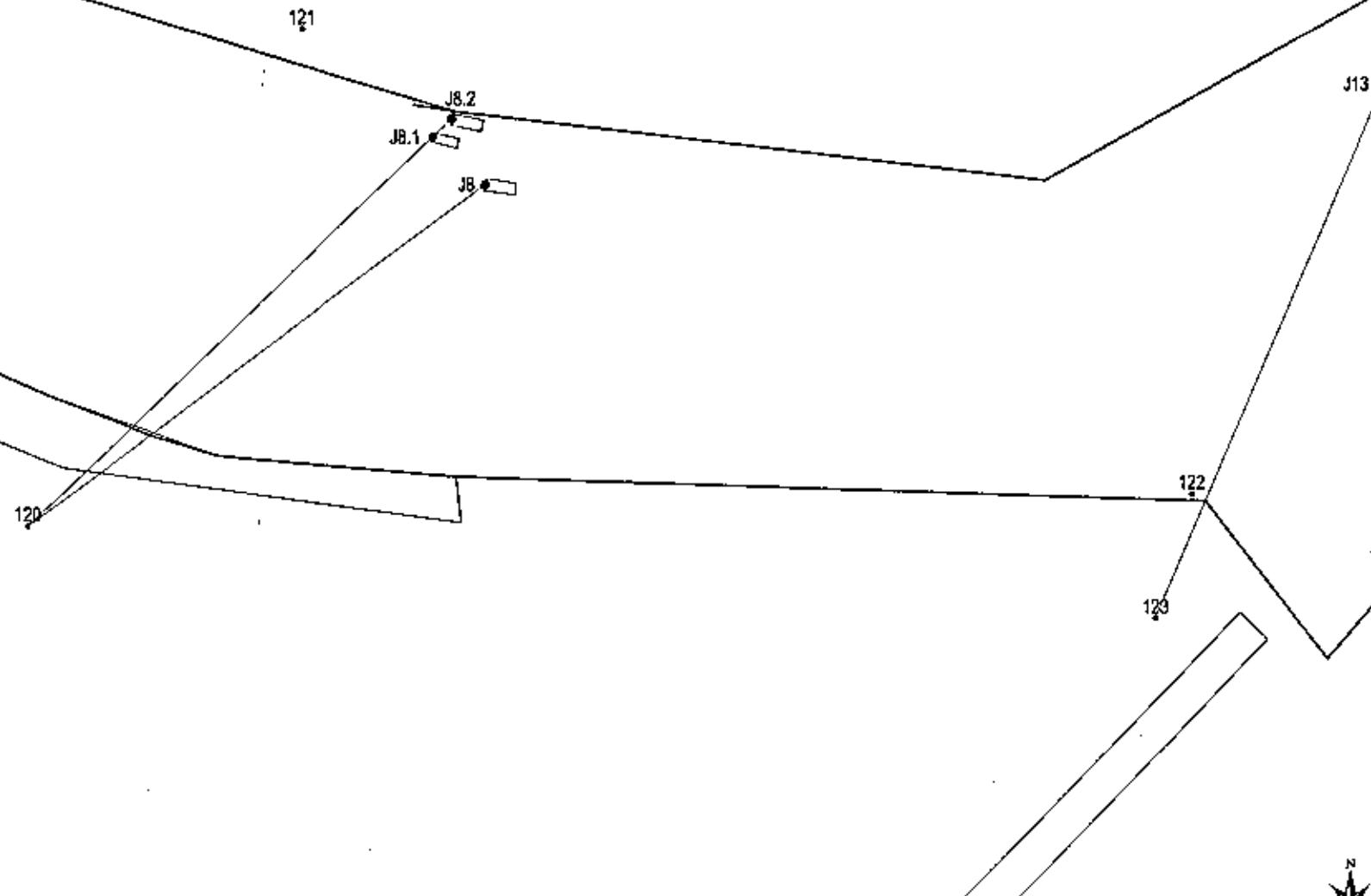


## Segment J1 - J6f 1999



## Segment J8 - J13 1999

5 0 5 10 15 20 25 Meters



- Refpts9.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands B1a+
  - Plant Stand B2.2
  - Plant Stands C
  - Plant Stands E,F
  - Plant Stands E9, E9.1
  - Plant Stands G, H
  - Plant Stands J
  - Plant Stands K
- San Marcos River  
Streets  
Structures  
River

## Segment J8 - J11 2000

121

J8

J8b

J11

120

122

123

- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands C1,C2.1,C5.5-C5.7,C9c,C9d
- Plant Stands E,F
- Plant Stands E6,E8-E11c
- Plant Stands G, H
- Plant Stands J
- Plant Stands K

San Marcos River

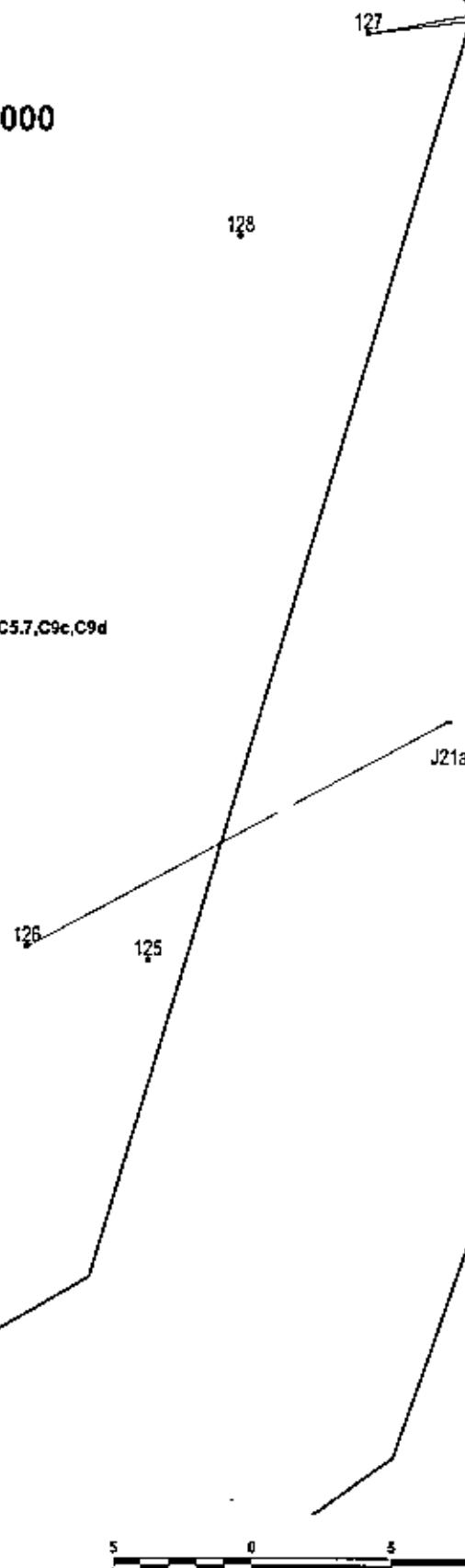
- △ Streets
- △ Structures
- △ River

N

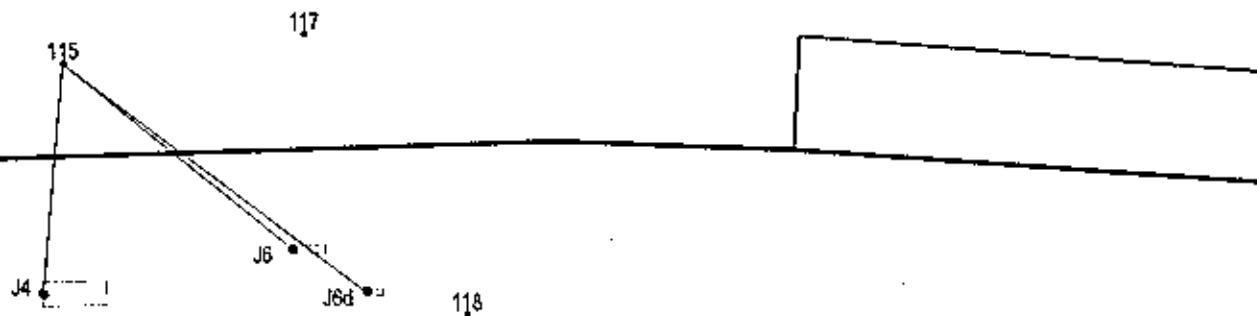


**Segment J21a 2000**

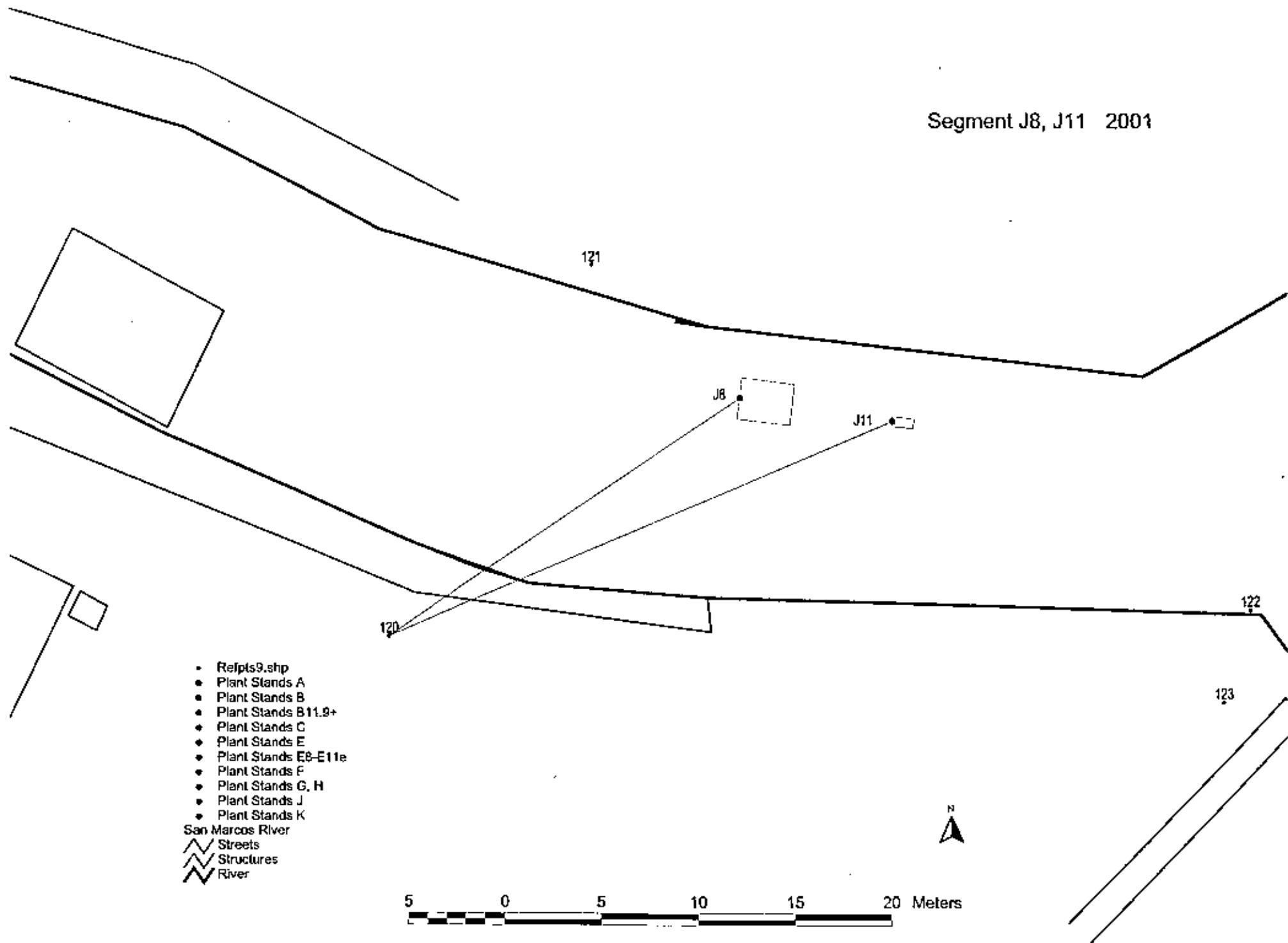
- Refpts9.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands C
  - Plant Stands C1,C2.1,C5.5-C5.7,C9c,C9d
  - Plant Stands E,F
  - Plant Stands E6,E8-E11c
  - Plant Stands G, H
  - Plant Stands J
  - + Plant Stands K
- San Marcos River**
- // Streets
  - /// Structures
  - \\\\\\ River



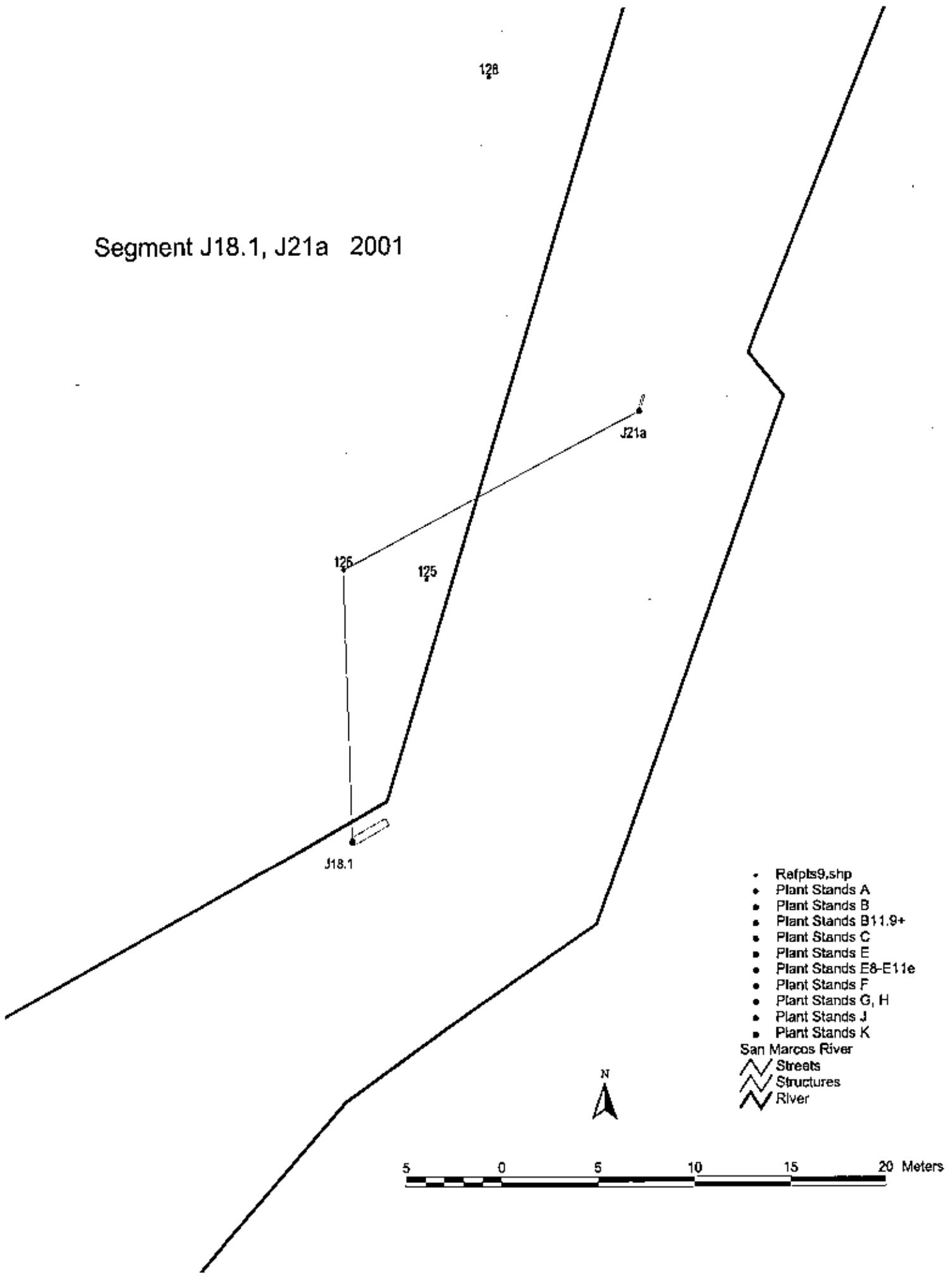
## Segment J4 - J6d 2001

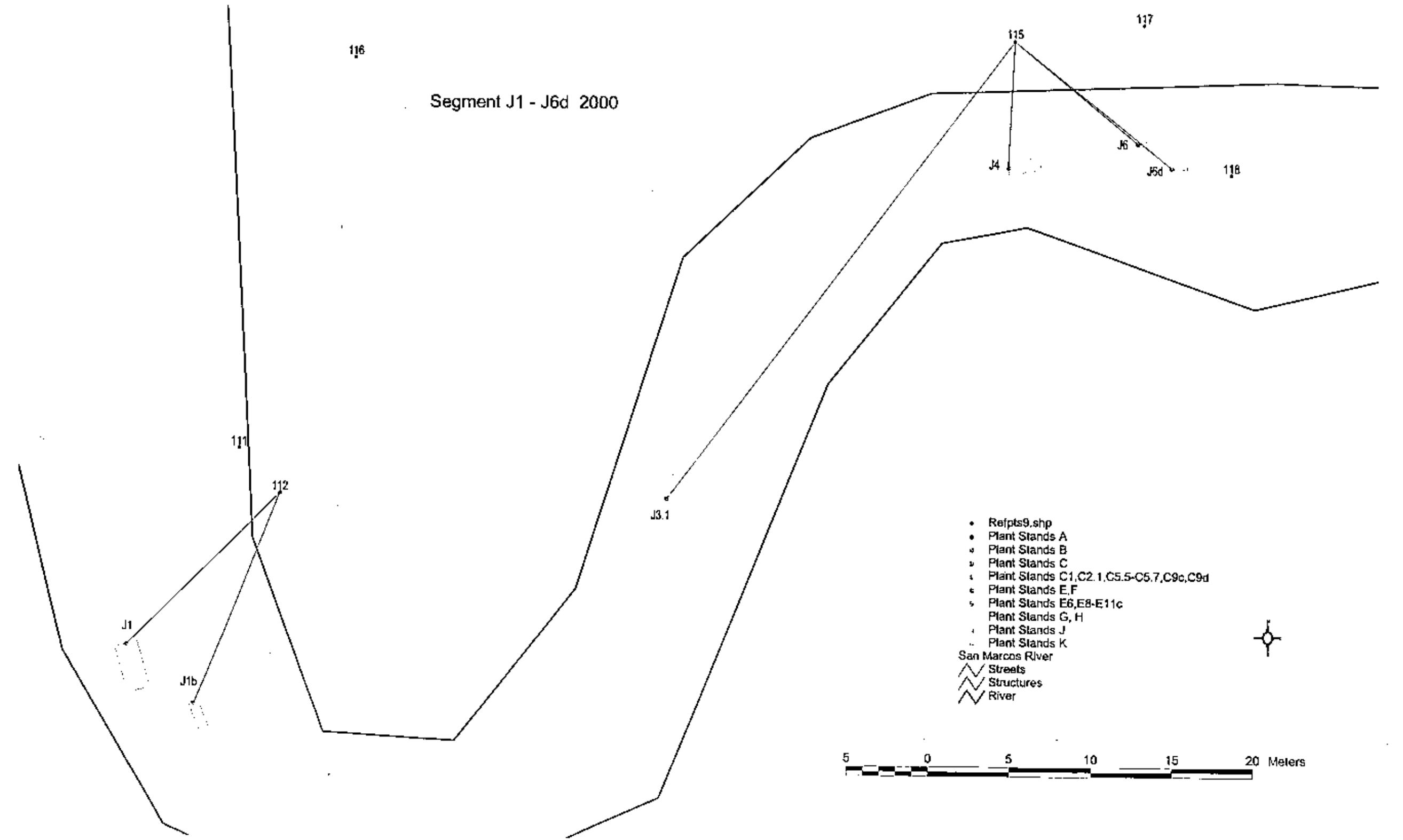


Segment J8, J11 2001



Segment J18.1, J21a 2001





## Segment K22 - K24 1989

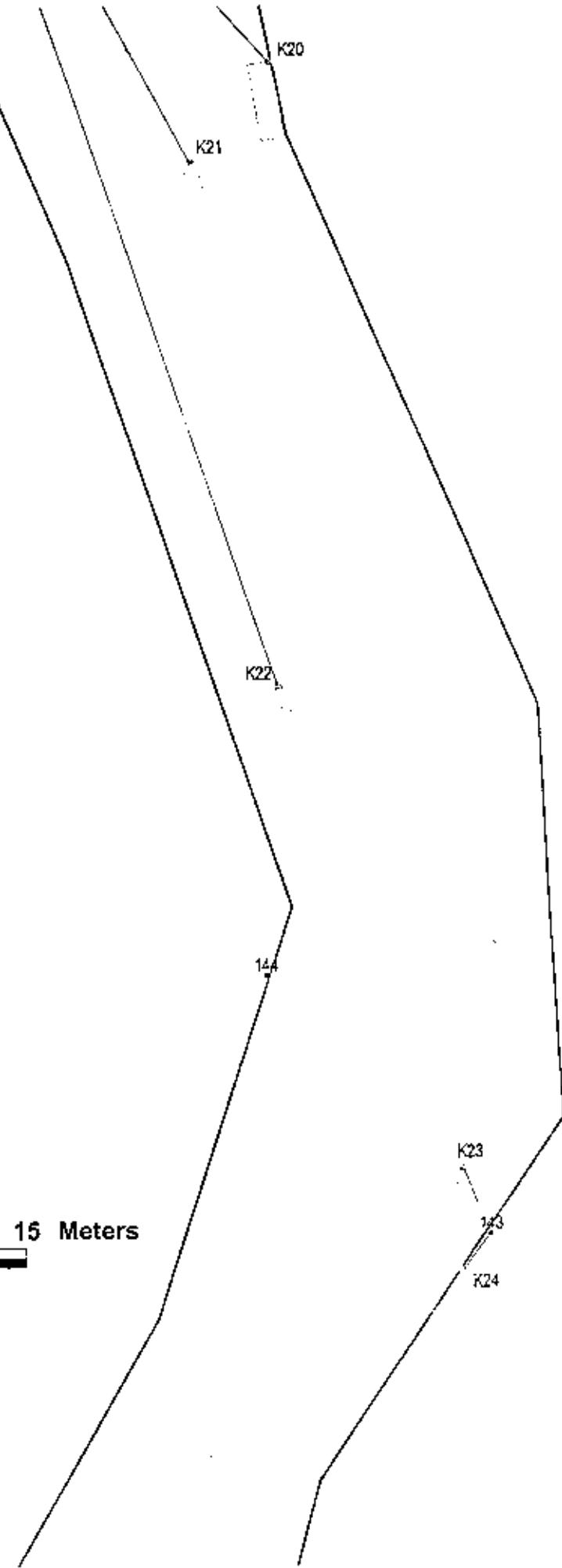
- Replis9.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands C
  - Plant Stand C3
  - Plant Stands E,F
  - Plant Stands E8a, E9-E13
  - Plant Stands F2,F8-F12
  - Plant Stand F10
  - Plant Stands G
  - Plant Stands H
  - Plant Stands I
  - Plant Stands H2,I2,I3,K36
  - Plant Stands J3,K11,K22
  - Plant Stands X
  - Plant Stands J
  - Plant Stands J2,J4-J11,J23-J26
  - Plant Stands J15-J19
  - Plant Stands K,L
  - Plant Stands K23, K24
  - Plant Stands K27,K36,K38-K40,K42-K44
  - Plant Stand M1
- Rpf989.shp
- Rpf1489.shp
- Rpf171.shp

San Marcos River

- ~~ Streets
- ~~ Structures
- ~~ River



5 0 5 10 15 Meters

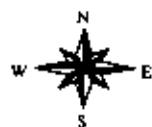


## Segment K25 - K28 1989

- Refpts4.shp
- Plant Stands E,F
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands J
- Plant Stands J2,J4-J11,J23-J26
- Plant Stands J15-J19
- Plant Stands K,L
- Plant Stands K23-K24,K27,K38,K38-K40,K42-K44
- Plant Stands X
- Rpj1489.shp

San Marcos River

- ✓ Streets
- ✓ Structures
- ✓ River



K25

K26

K27

148

K28

## Segment J27 - K10 1989

- Plant Stands K,L  
Refpts2.shp
- Plant Stands J15~J19
- Plant Stands E,F
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands J
- Plant Stands J2,J4~J11,J23~J26
- Plant Stands X

San Marcos River

- Streets
- Structures
- River



## Segment K11- K21 1989

- Refpts9.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands C
  - Plant Stand C3
  - Plant Stands E,F
  - Plant Stands E8a, E9-E13
  - Plant Stands F2,F8-F12
  - Plant Stand F10
  - Plant Stands G
  - Plant Stands H
  - Plant Stands I
  - Plant Stands H2,H3,K36
  - Plant Stands J3,K11,K22
  - Plant Stands X
  - Plant Stands J
  - Plant Stands J2,J4-J11,J23-J26
  - Plant Stands J15-J19
  - Plant Stands K,L
  - Plant Stands K23, K24
  - Plant Stands K27,K36,K38-K40,K42-K44
  - Plant Stand M1
  - Rpf989.shp
  - Rpj1489.shp
  - Rp171.shp
- San Marcos River
- ~ Streets
  - ~ Structures
  - ~ River



5 0 5 10 15 20 Meters

## Segment K25 - K28.1 1990

- Refpts9.shp
- Plant Stands A
- Plant Stands B
- ◆ Plant Stand B16
- Plant Stands C
- ◀ Plant Stands C5-C6.1,C9,C9a
- ◀ Plant Stands E,F
- ▼ Plant Stands F4-F6, F8-F15
- Plant Stands G
- Plant Stands H
- Plant Stand H2
- Plant Stands I
- Plant Stands J
- ◀ Plant Stands J4,J5,J8-J11
- ◀ Plant Stands J27,K1-K5,K29-K31
- ▶ Plant Stands K,L
- ◀ Plant Stands K11-K22,K31
- Plant Stands K23, K24
- Plant Stand K45

San Marcos River

- ▲ Streets
- ▲▲ Structures
- ▲▲▲ River



146 K25  
K26

150

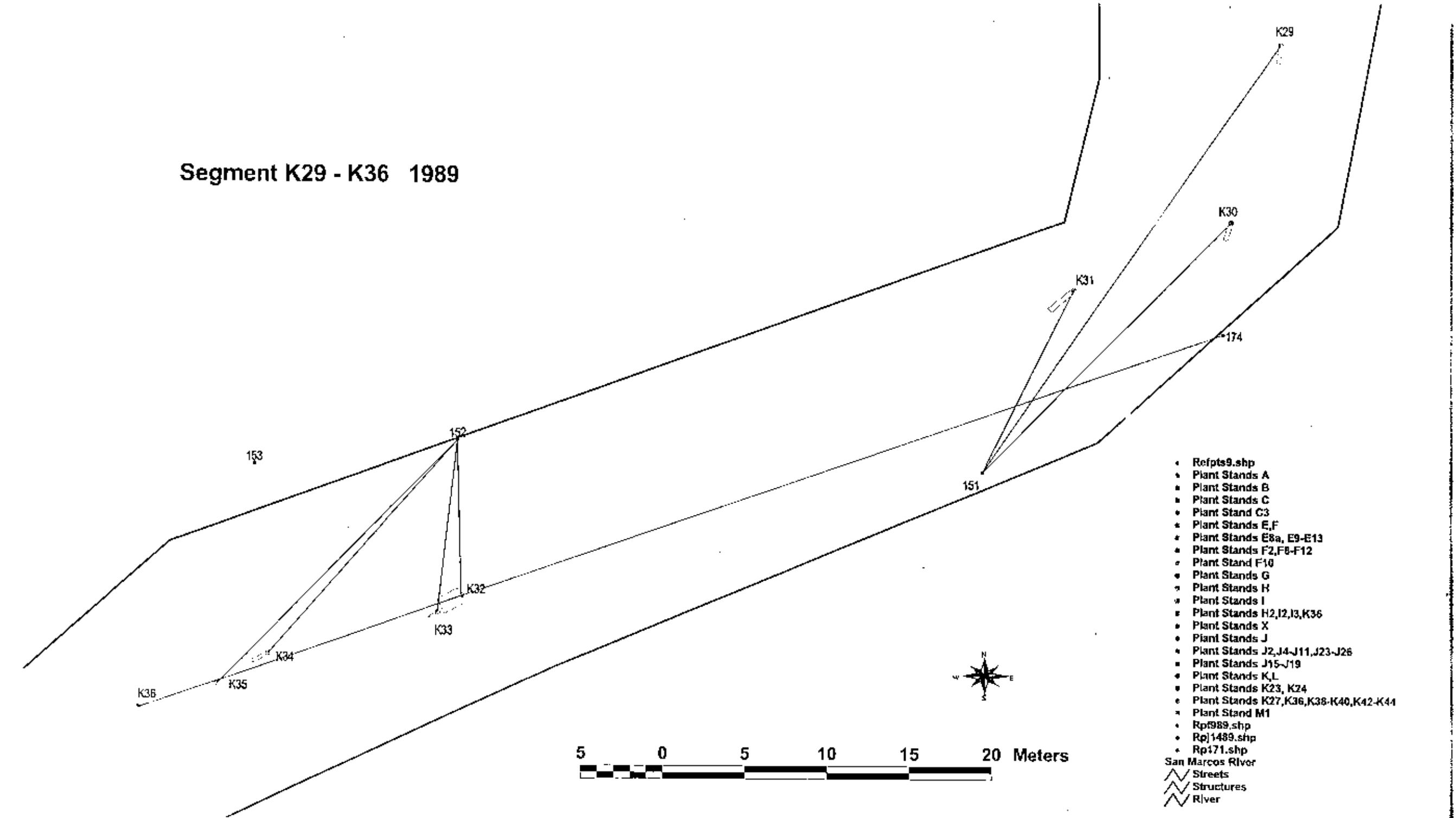
148

K28

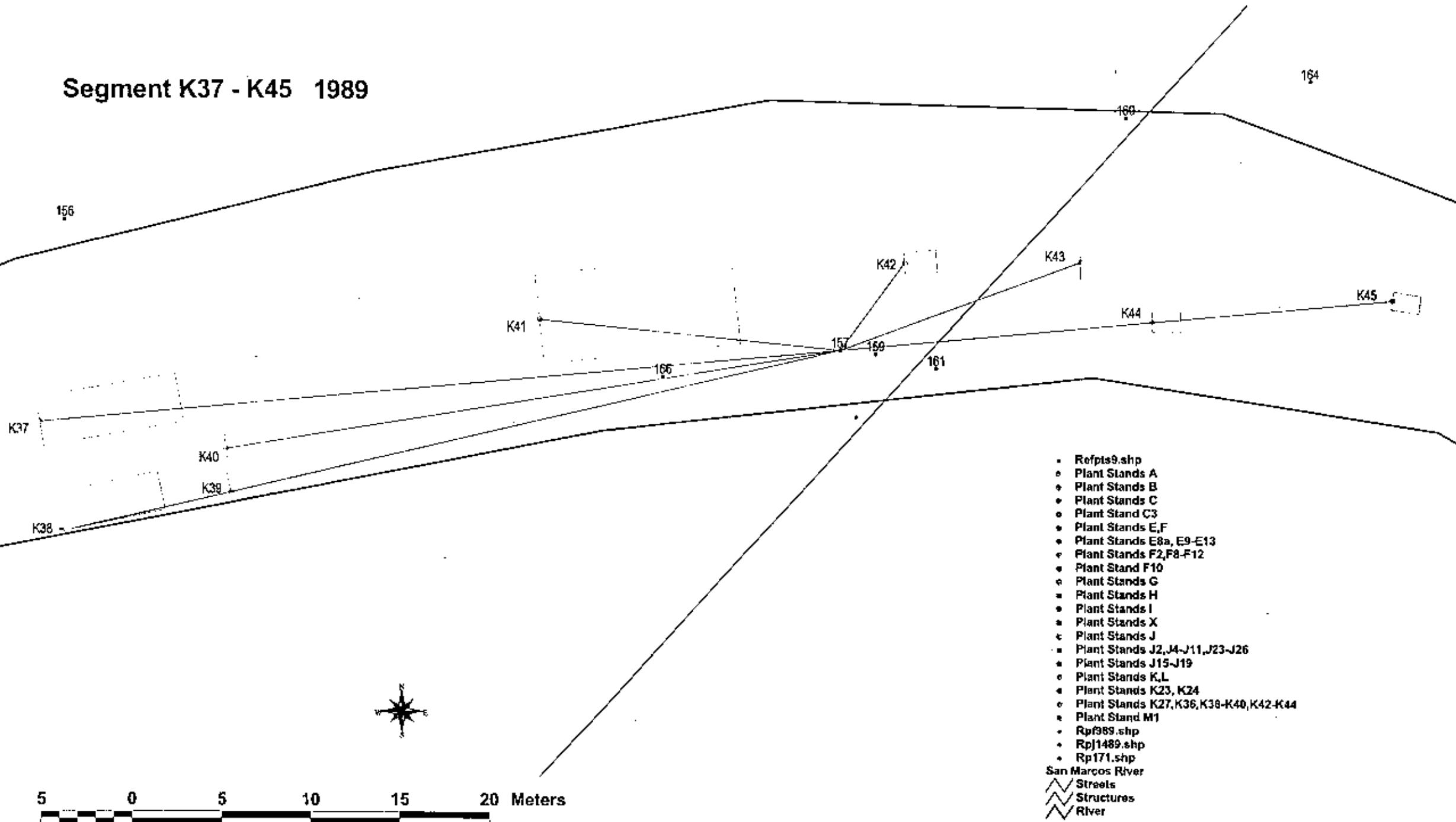
K28.1

K29

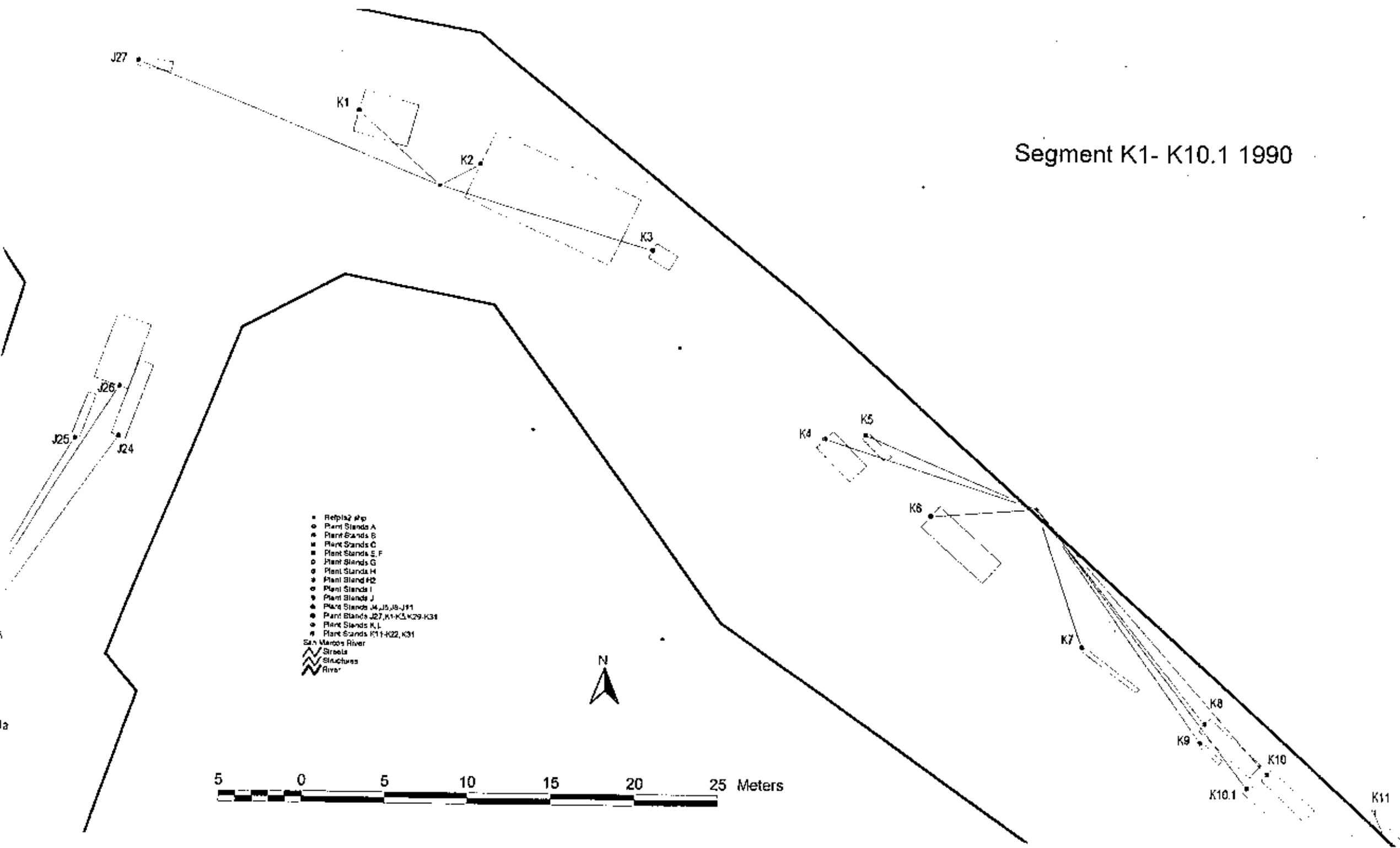
**Segment K29 - K36 1989**



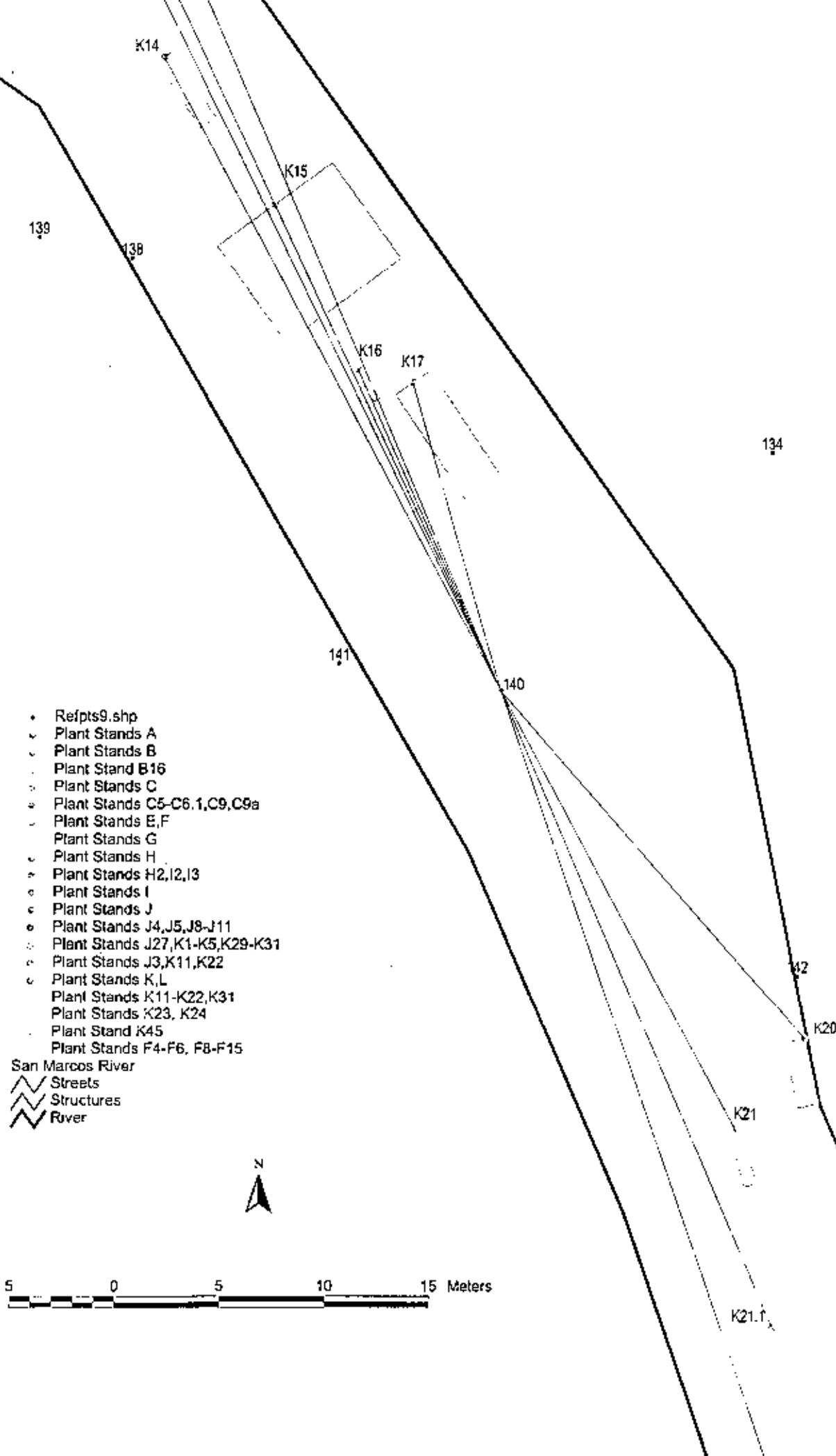
## Segment K37 - K45 1989



Segment K1- K10.1 1990



### Segment K11 - K21.1 1990

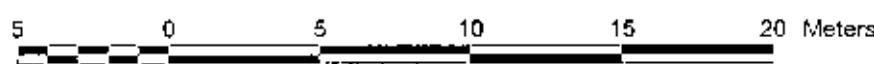


Segment K22 - K24 1990

- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stand B16
- Plant Stands C
- Plant Stands C5-C6.1,C9,C9a
- Plant Stands E,F
- Plant Stands G
- Plant Stands H
- Plant Stands H2,I2,I3
- Plant Stands I
- Plant Stands J
- Plant Stands J4,J5,J8-J11
- Plant Stands J27,K1-K5,K29-K31
- Plant Stands J3,K11,K22
- Plant Stands K,L
- Plant Stands K11-K22,K31
- Plant Stands K23, K24
- Plant Stand K45
- Plant Stands F4-F6, F8-F15

San Marcos River

- ~~ Streets
- ~~ Structures
- ~~ River



141

140

142

K20

K21

K21.1

K22

14

K23

K24

15

Segment K36.1 - 36.3 - 1990

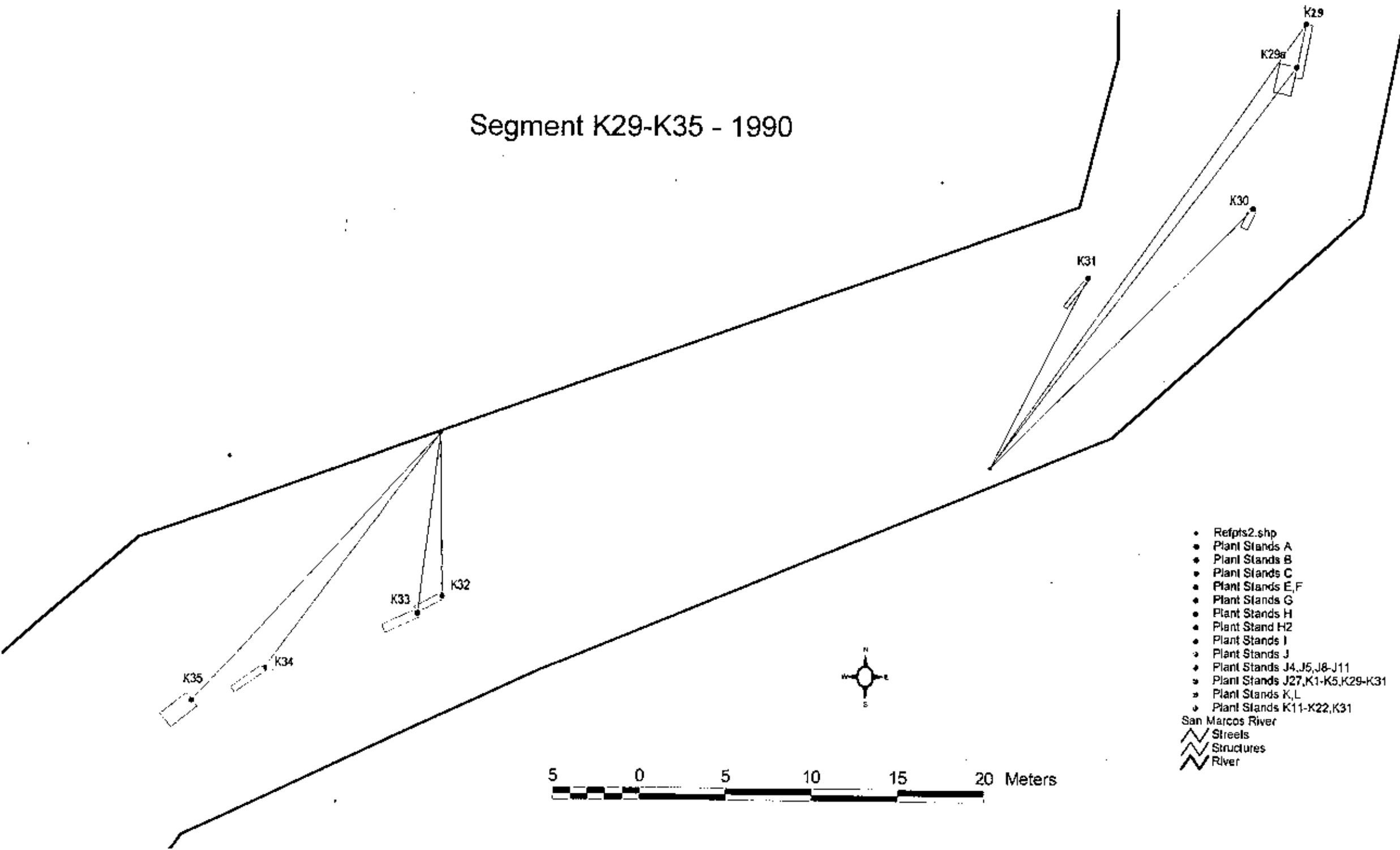
K36.1  
K36.2  
K36.3

- Relpts2.ehp
- Plant Stands A
- ▲ Plant Stands B
- ◆ Plant Stands C
- ▼ Plant Stands E,F
- ◆ Plant Stands G
- Plant Stands H
- ▲ Plant Stands I
- ◆ Plant Stands J
- Plant Stands J4,J5,J8,J11
- ▲ Plant Stands J27,K1-K5,K29-K31
- ◆ Plant Stands K,L
- Plant Stands K11-K22,K31
- Sun Marcos River
- ~~~~ Streets
- ~~~~ Structures
- ~~~~ River

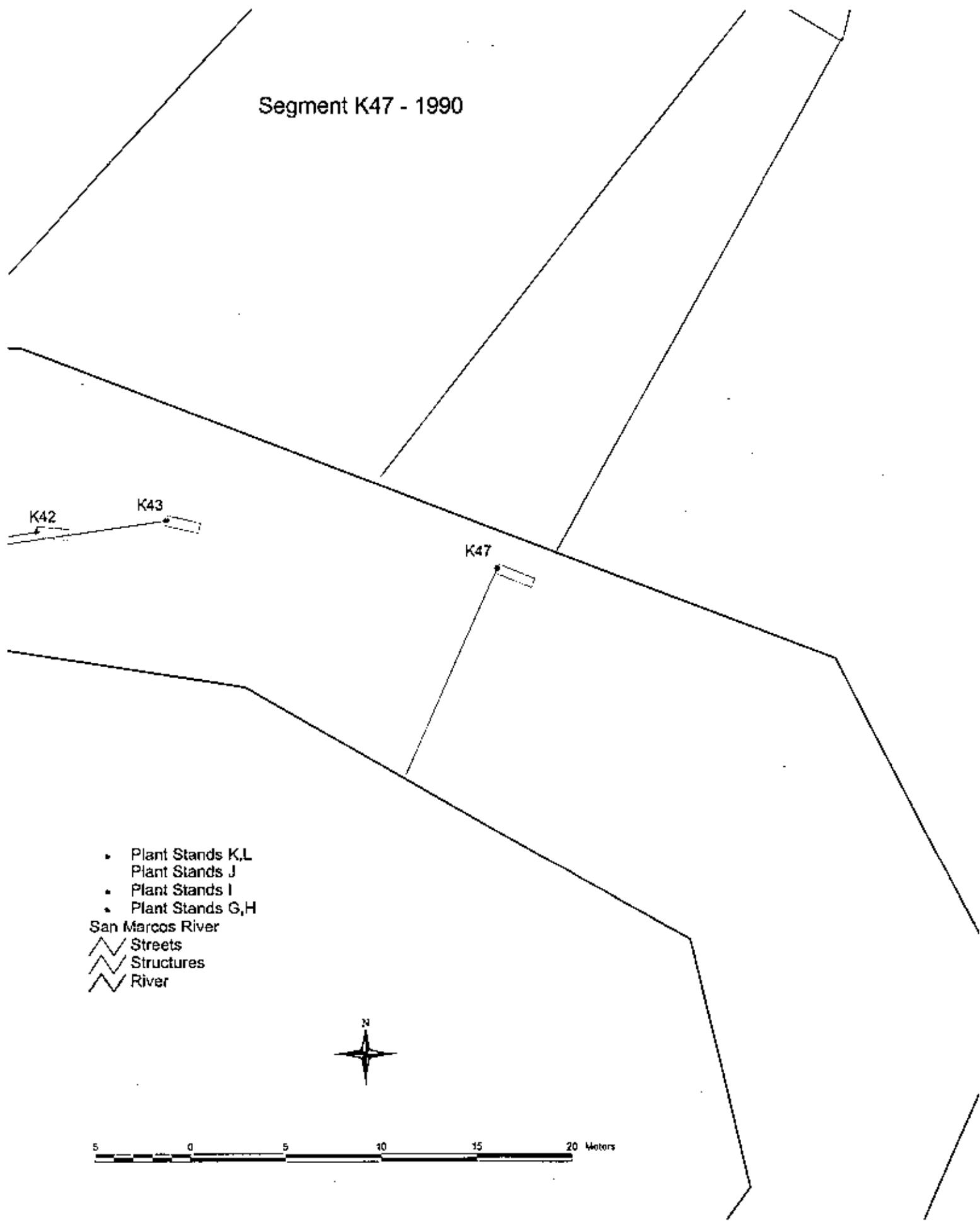


5 0 5 10 15 20 Meters

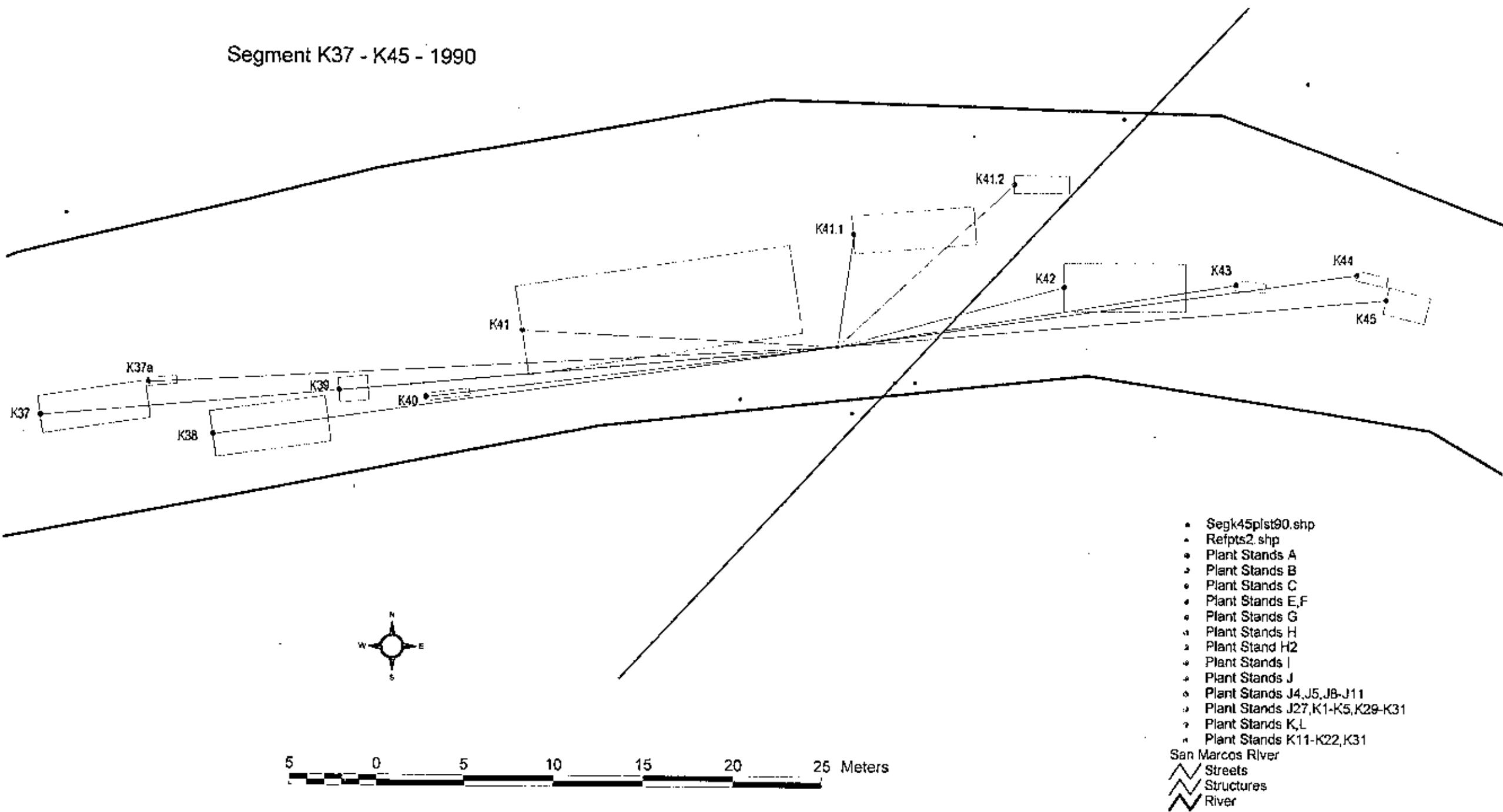
## Segment K29-K35 - 1990



### Segment K47 - 1990



Segment K37 - K45 - 1990

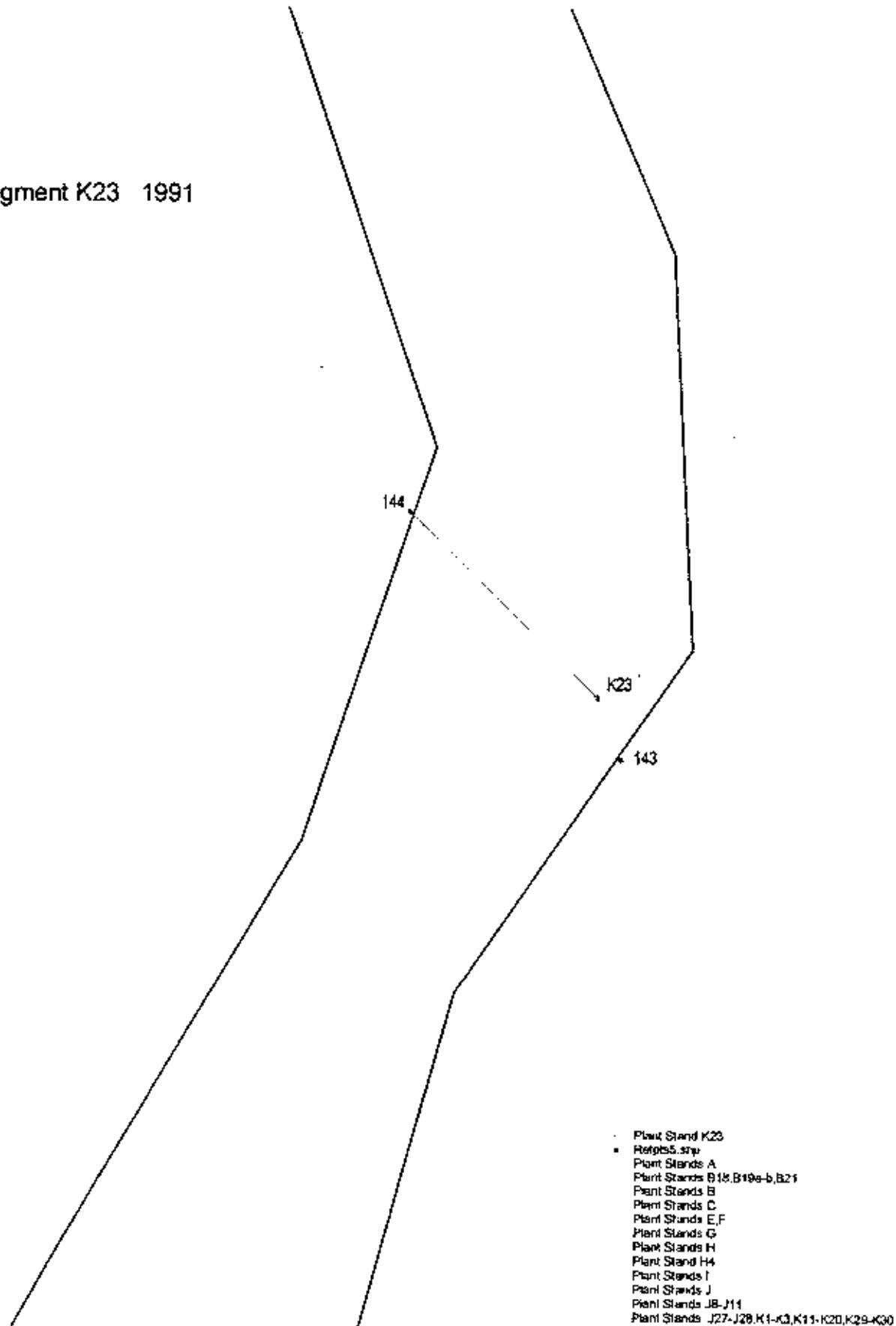


- SegK45plst90.shp
- Refpts2.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands G
- Plant Stands H
- Plant Stand H2
- Plant Stands I
- Plant Stands J
- Plant Stands J4,J5,J8-J11
- Plant Stands J27,K1-K5,K29-K31
- Plant Stands K,L
- Plant Stands K11-K22,K31

San Marcos River

- Streets
- Structures
- River

Segment K23 1991



- Plant Stand K23
- Rengis5.shp
- Plant Stands A
- Plant Stands B18,B19a-b,B21
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands G
- Plant Stands H
- Plant Stand H4
- Plant Stands I
- Plant Stands J
- Plant Stands J8-J11
- Plant Stands J27-J28,K1-K3,K11-K20,K29-K30
- Plant Stands K,L

San Marcos River

~\~ Streets

~\~ Structures

~\~ River



5 0 5 10 15 20 Meters

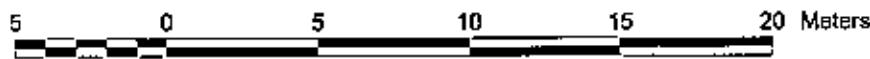
# Segment K26 - 1991

- Raftus9.shp
- Plant Stand A
- Plant Stand B
- Plant Stands B16,B16.1
- Plant Stands B16,B16a-b,B21
- Plant Stands C
- Plant Stands C5,C5.1,C6,C6.1,C9,C9a
- Plant Stands E,F
- Plant Stand E8a
- Plant Stands G
- Plant Stands H
- Plant Stand H4
- Plant Stands I
- Plant Stands J
- Plant Stands J8-J11
- Plant Stands J27-J28,K1-K3,K11-K20,K29-K30
- Plant Stands K,L
- Plant Stand K23
- San Marcos River
  - ~~~~ Streets
  - ~~~~ Structures
  - ~~~~ River

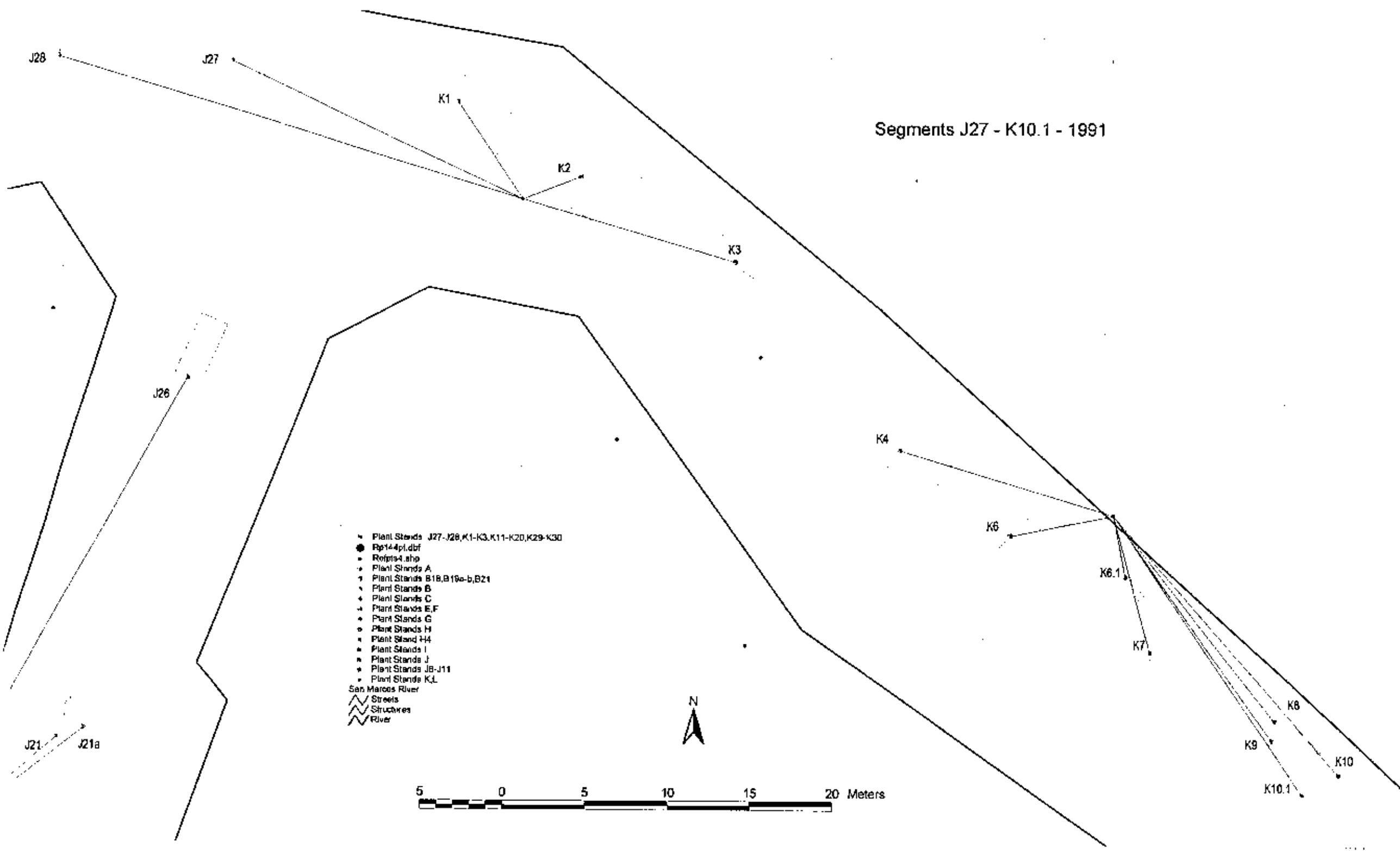
150

145  
K26

148



Segments J27 - K10.1 - 1991

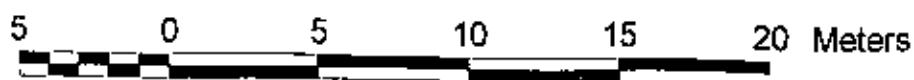


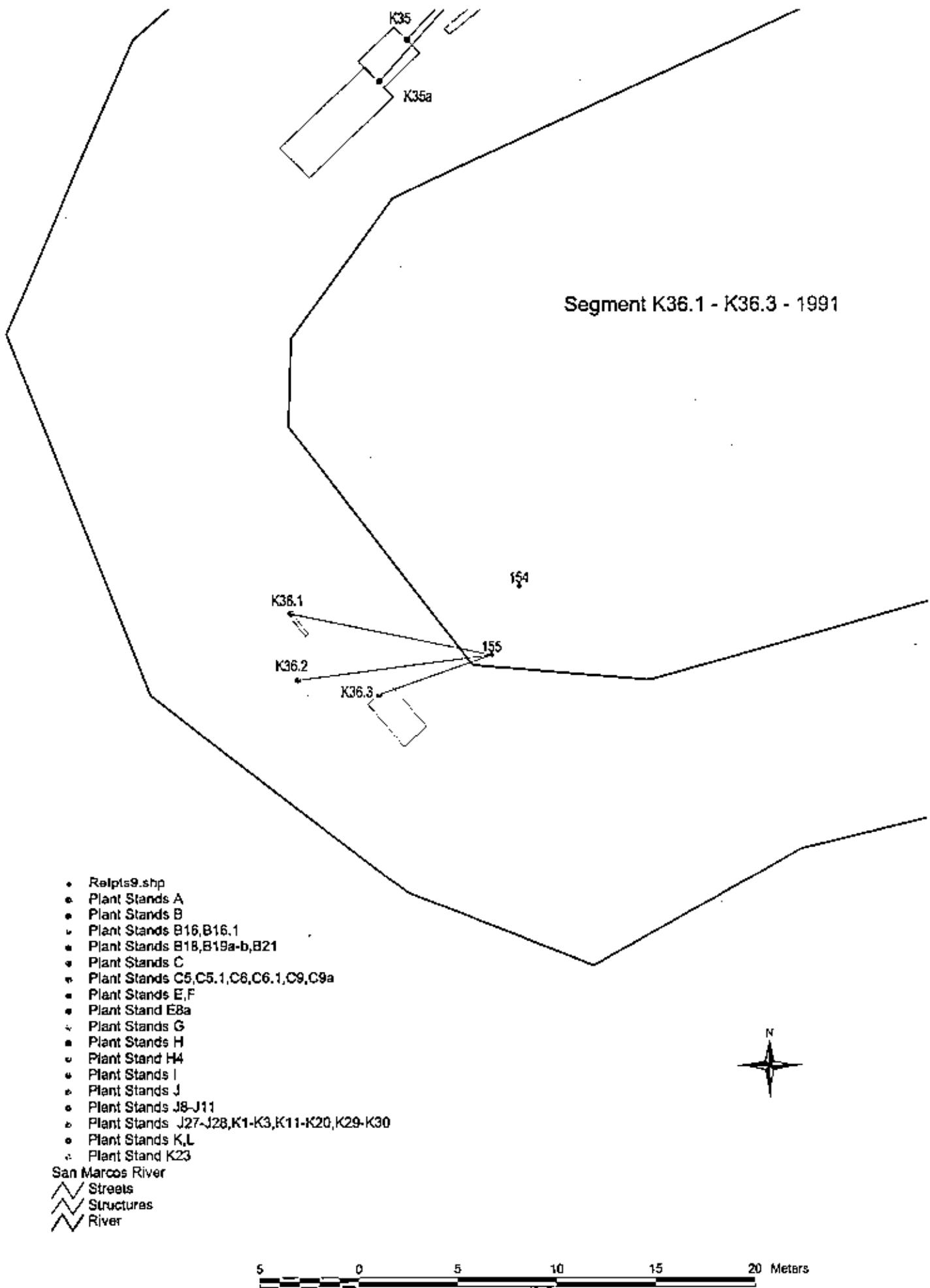
Segment K11 - K20 1991

- Plant Stands J27-J28,K1-K3,K11-K20,K29-K30
- Rp144pt.dbf
- Refpts4.shp
- △ Plant Stands A
- ▲ Plant Stands B18,B19a-b,B21
- ◆ Plant Stands B
- ◆ Plant Stands C
- ◆ Plant Stands E,F
- ◆ Plant Stands G
- ◆ Plant Stands H
- ◆ Plant Stand H4
- ◆ Plant Stands I
- ◆ Plant Stands J
- ◆ Plant Stands J8-J11
- ◆ Plant Stands K,L

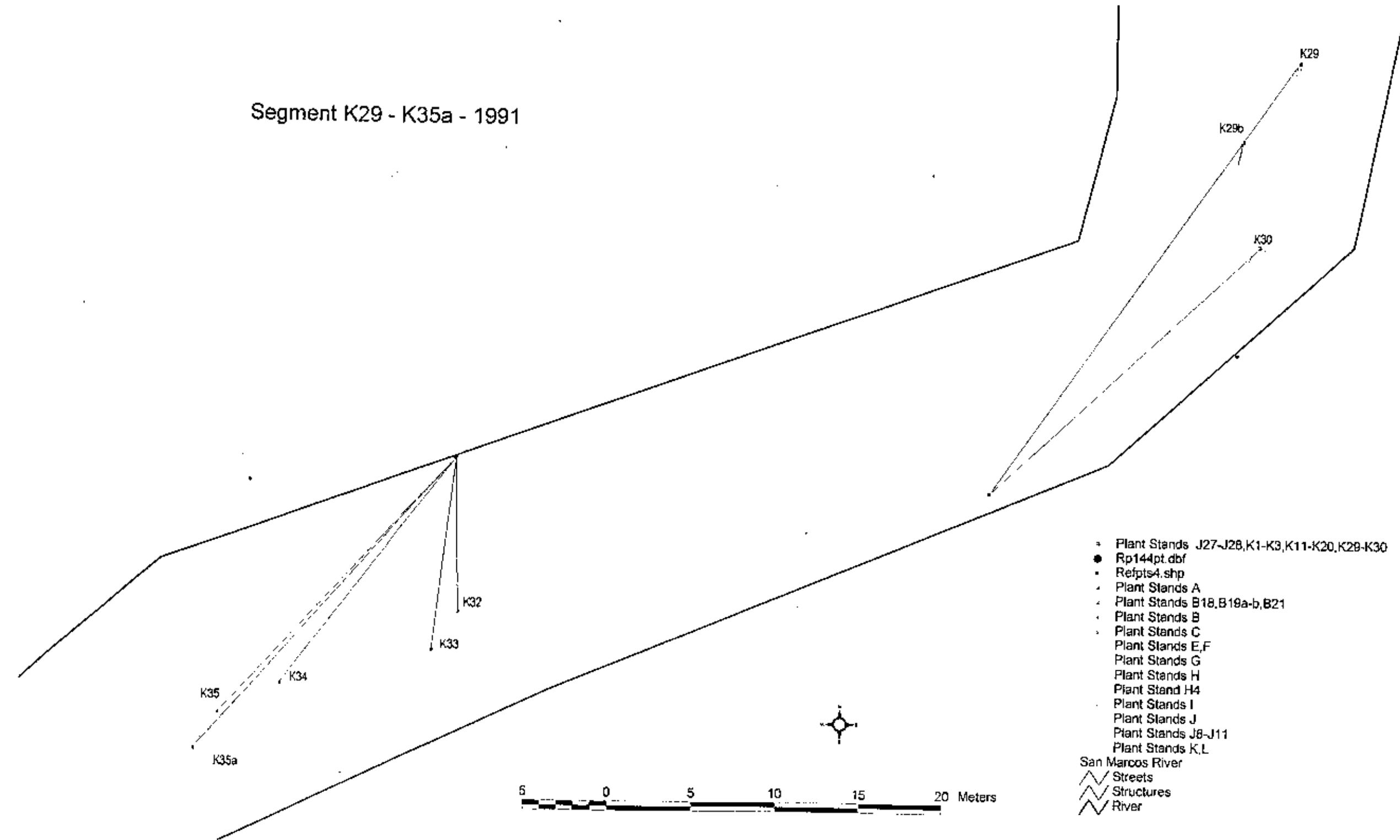
San Marcos River

- \\\\ Streets
- \\\\ Structures
- \\\\ River





Segment K29 - K35a - 1991



Segment K47.1 - 1991

K45

K47.1

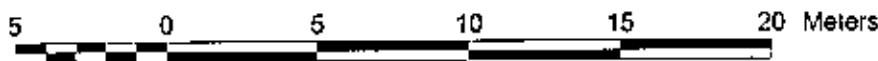
168

69

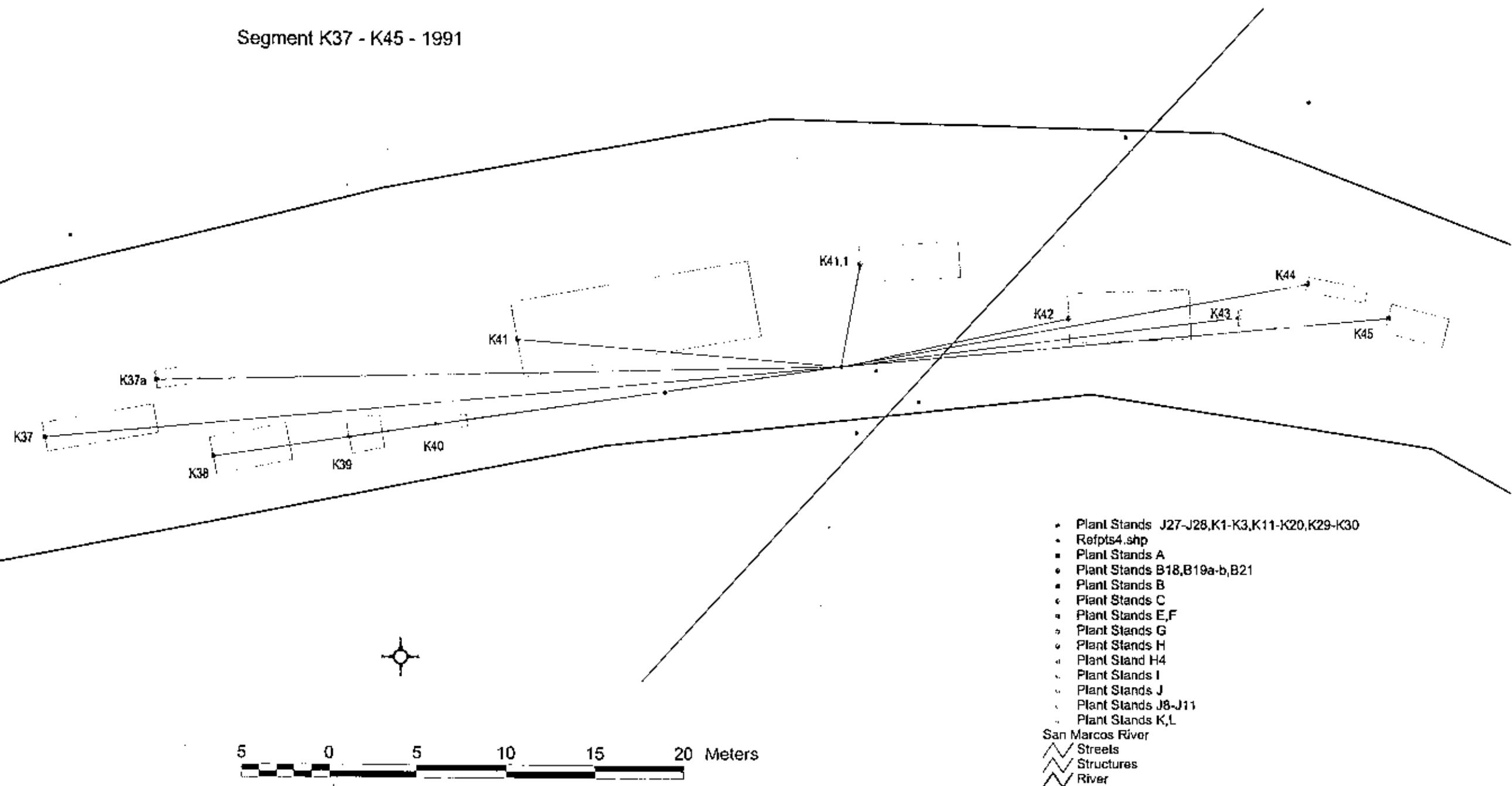
- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands B16,B16.1
- Plant Stands B18,B19a-b,B21
- Plant Stands C
- Plant Stands C5,C5.1,C6,C6.1,C9,C9a
- Plant Stands E,F
- Plant Stand E8a
- Plant Stands G
- Plant Stands H
- Plant Stand H4
- Plant Stands I
- Plant Stands J
- Plant Stands J8-J11
- Plant Stands J27-J28,K1-K3,K11-K20,K29-K30
- Plant Stands K,L
- Plant Stand K23

San Marcos River

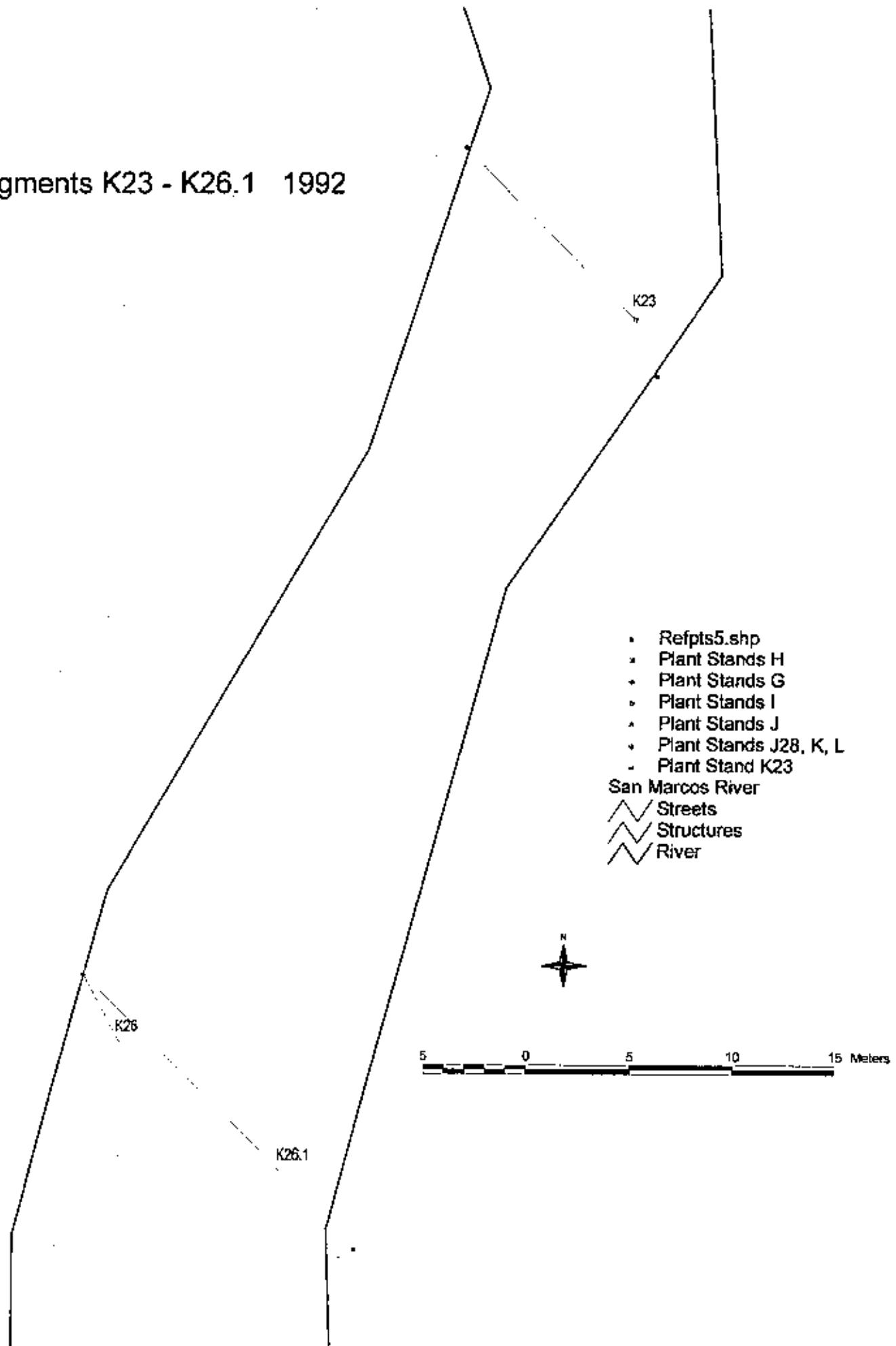
- ~~~~ Streets
- ~~~~ Structures
- ~~~~ River



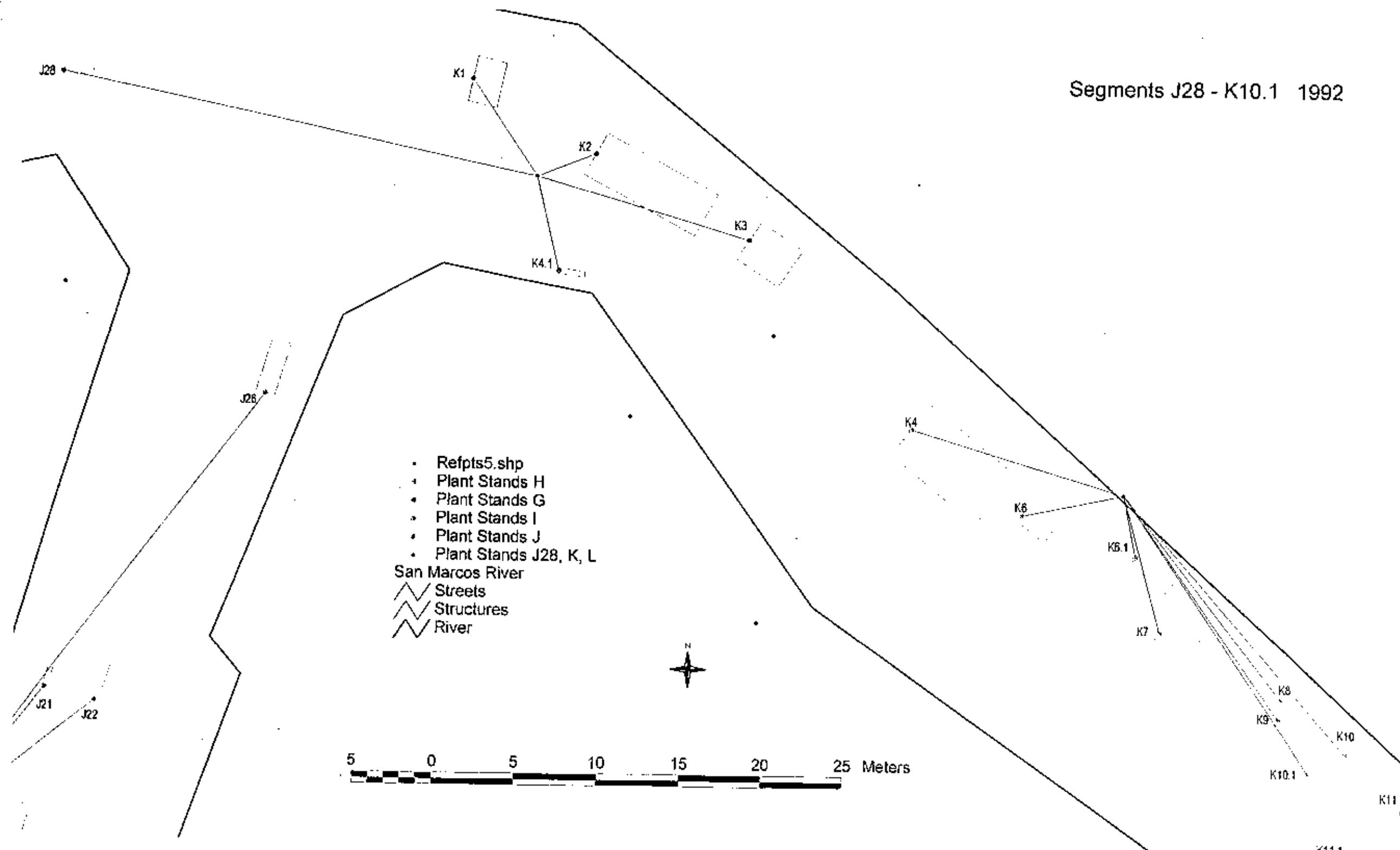
Segment K37 - K45 - 1991



Segments K23 - K26.1 1992



Segments J28 - K10.1 1992

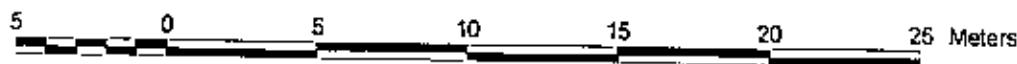


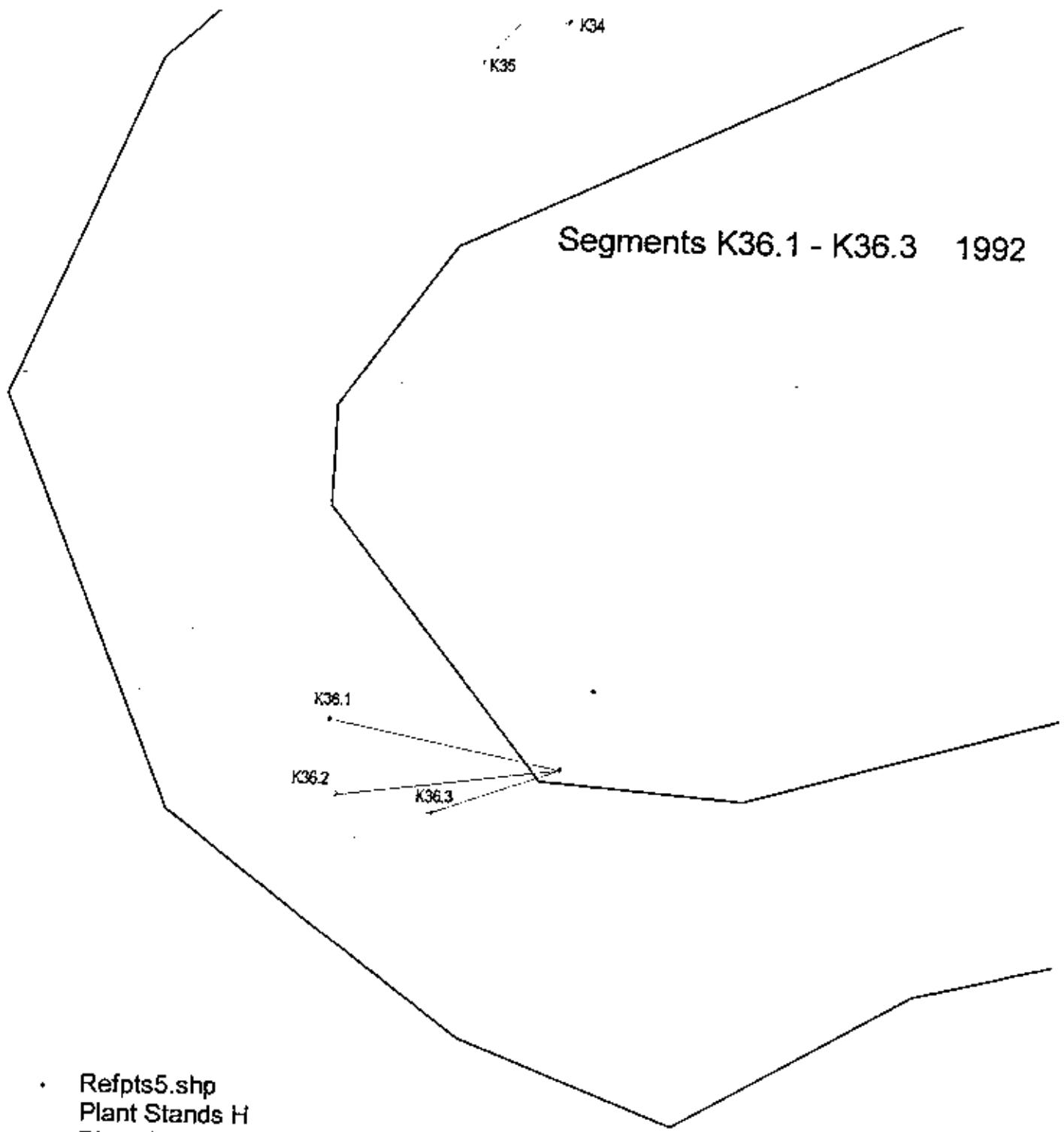
Segments K11 - K20 1992

- Refpts5.shp
- Plant Stands H
- Plant Stands G
- Plant Stands J
- Plant Stands J
- Plant Stands J28, K, L

San Marcos River

- Streets
- Structures
- River





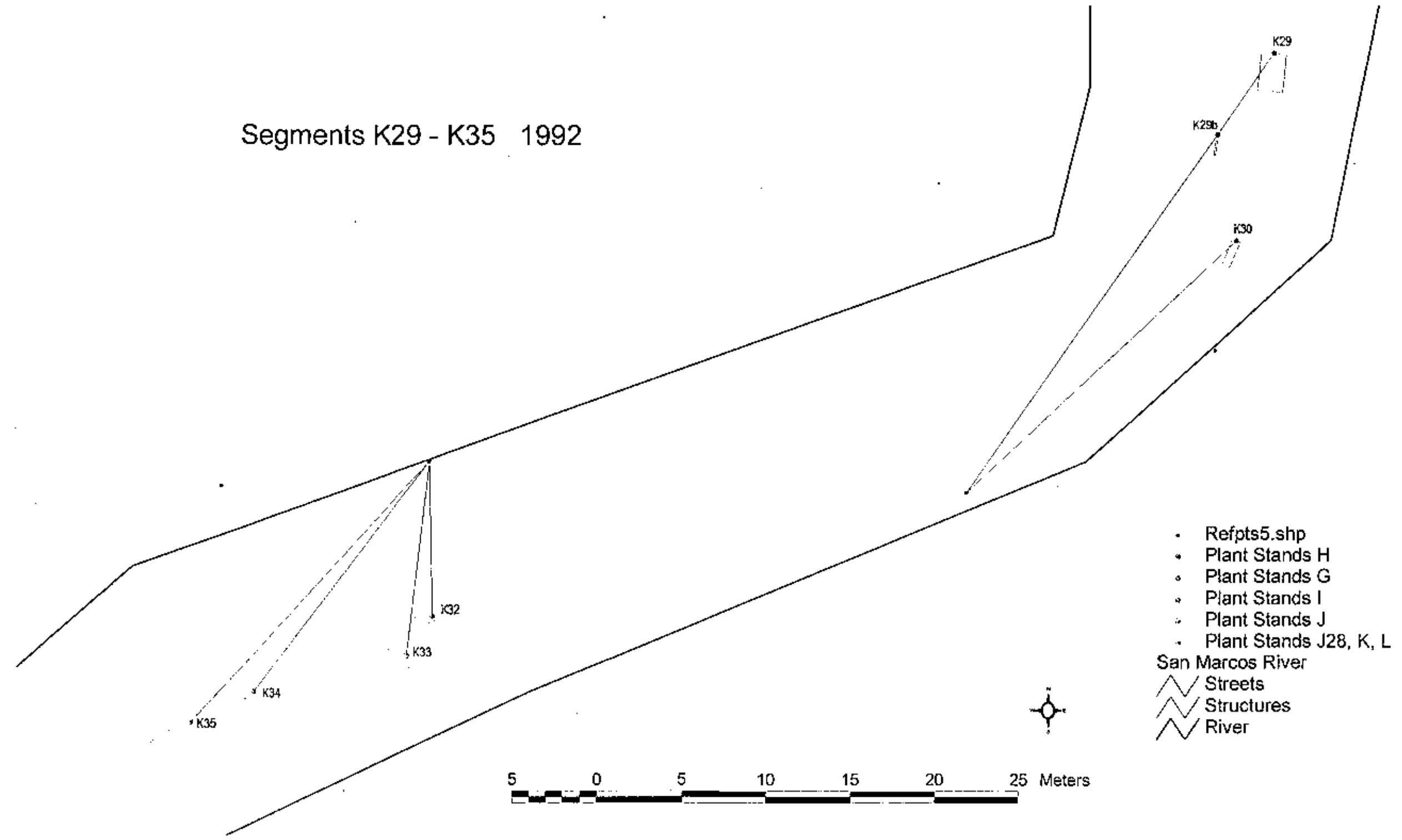
San Marcos River

- Streets
- Structures
- River



5 0 5 10 15 20 Meters

Segments K29 - K35 1992



## Segment K36.1 - K36.3 - 1993

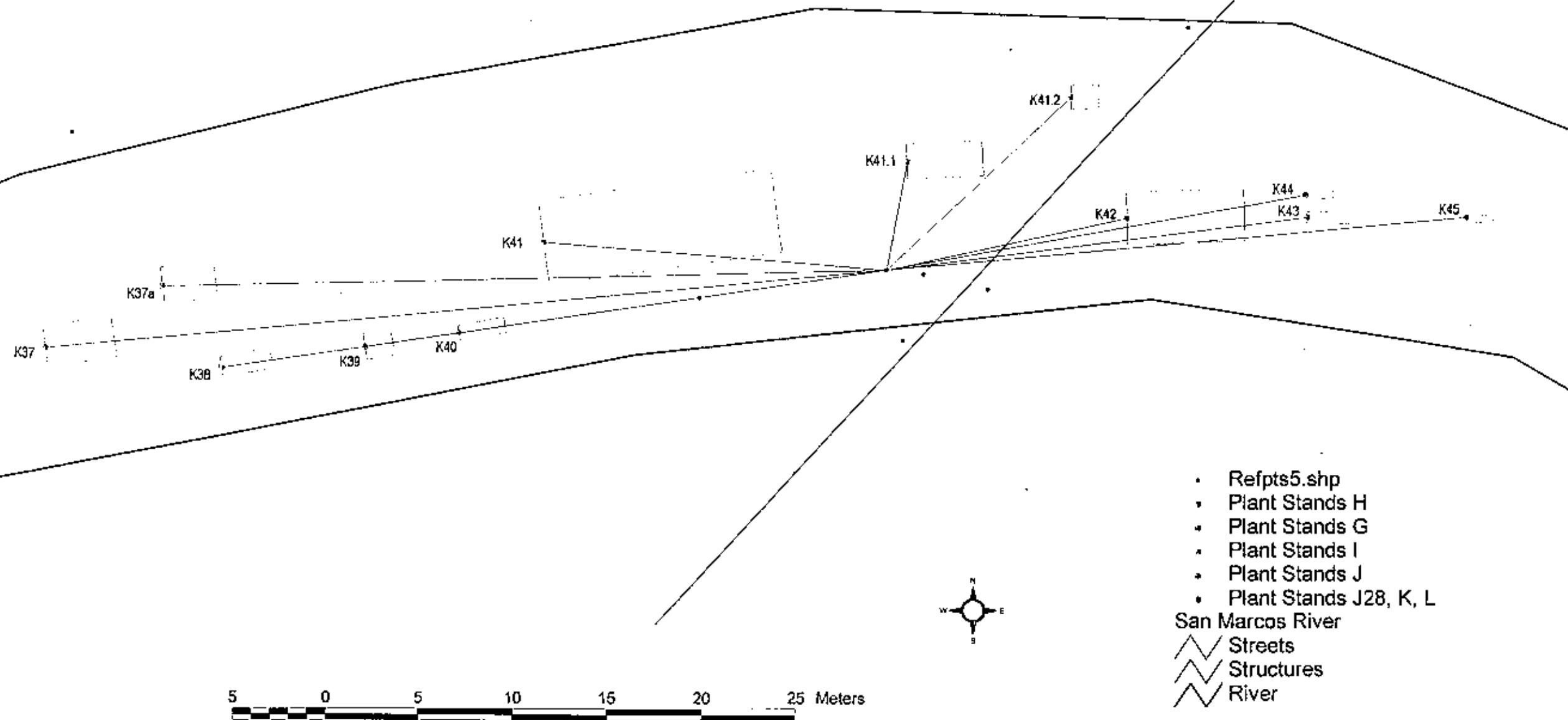
K36.1  
K36.2  
K36.3

- Refpts2.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stand B15e
  - Plant Stands C
  - Plant Stands E,F
  - Plant Stands - G,H1
  - Plant Stands H2-H3
  - Plant Stands I
  - Plant Stands J
  - Plant Stands J9-J11
  - Plant Stands K,L
  - Plant Stands K11-K20,K29-K30
  - Plant Stands K37-K44
- San Marcos River
- / Streets
  - / Structures
  - / River

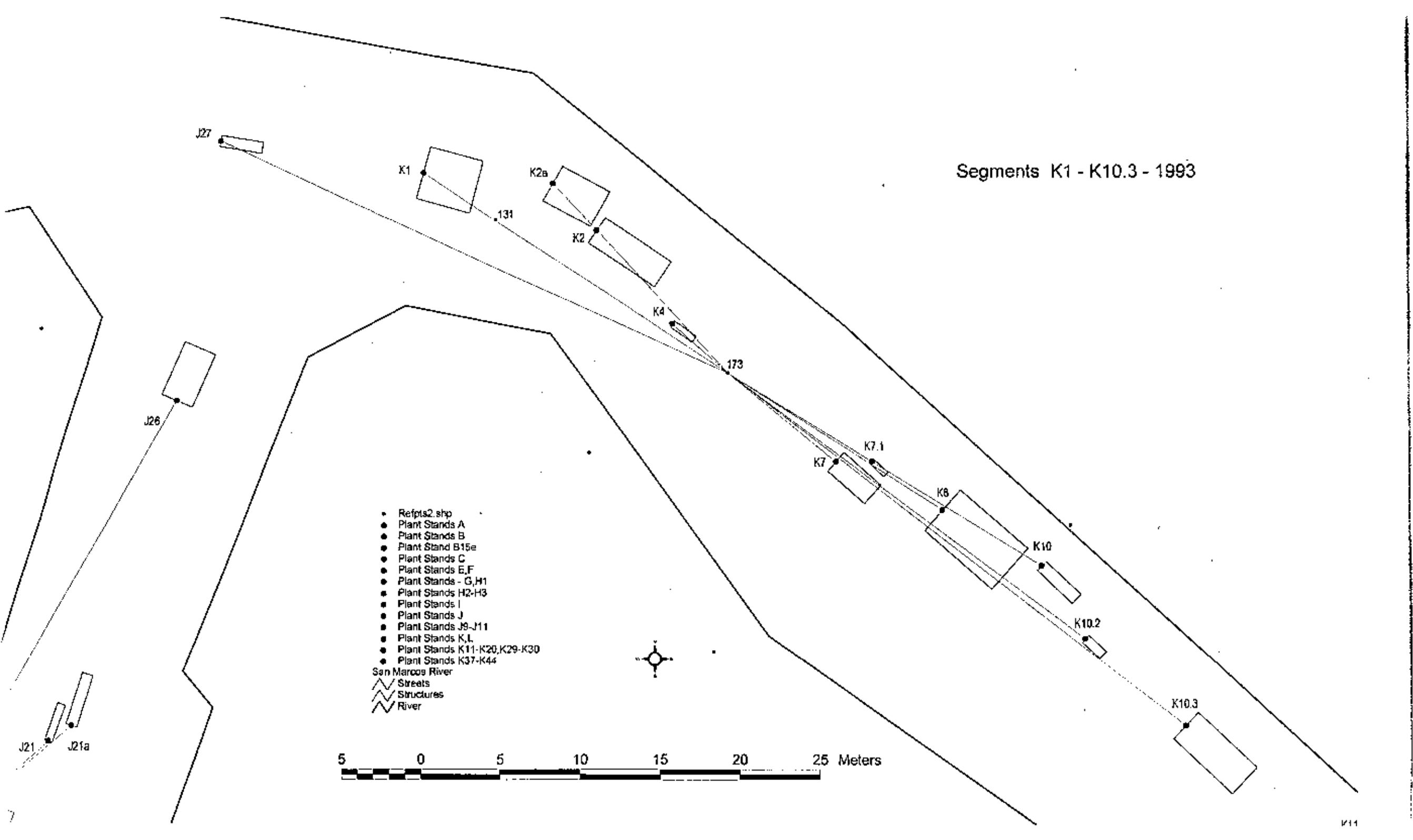


5 0 5 10 15 20 Meters

Segments K37 - K45 1992



Segments K1 - K10.3 - 1993

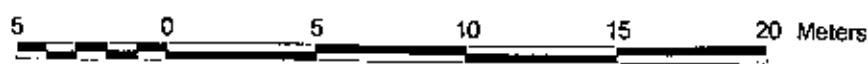


### Segments K11 - K20 - 1993

- Refpts2.shp
- Plant Stands A
- Plant Stands B
- Plant Stand B15e
- Plant Stands C
- Plant Stands E,F
- Plant Stands - G,H1
- Plant Stands H2-H3
- Plant Stands I
- Plant Stands J
- Plant Stands J9-J11
- Plant Stands K,L
- Plant Stands K11-K20,K29-K30
- Plant Stands K37-K44

San Marcos River

- ~~ Streets
- ~~ Structures
- ~~ River

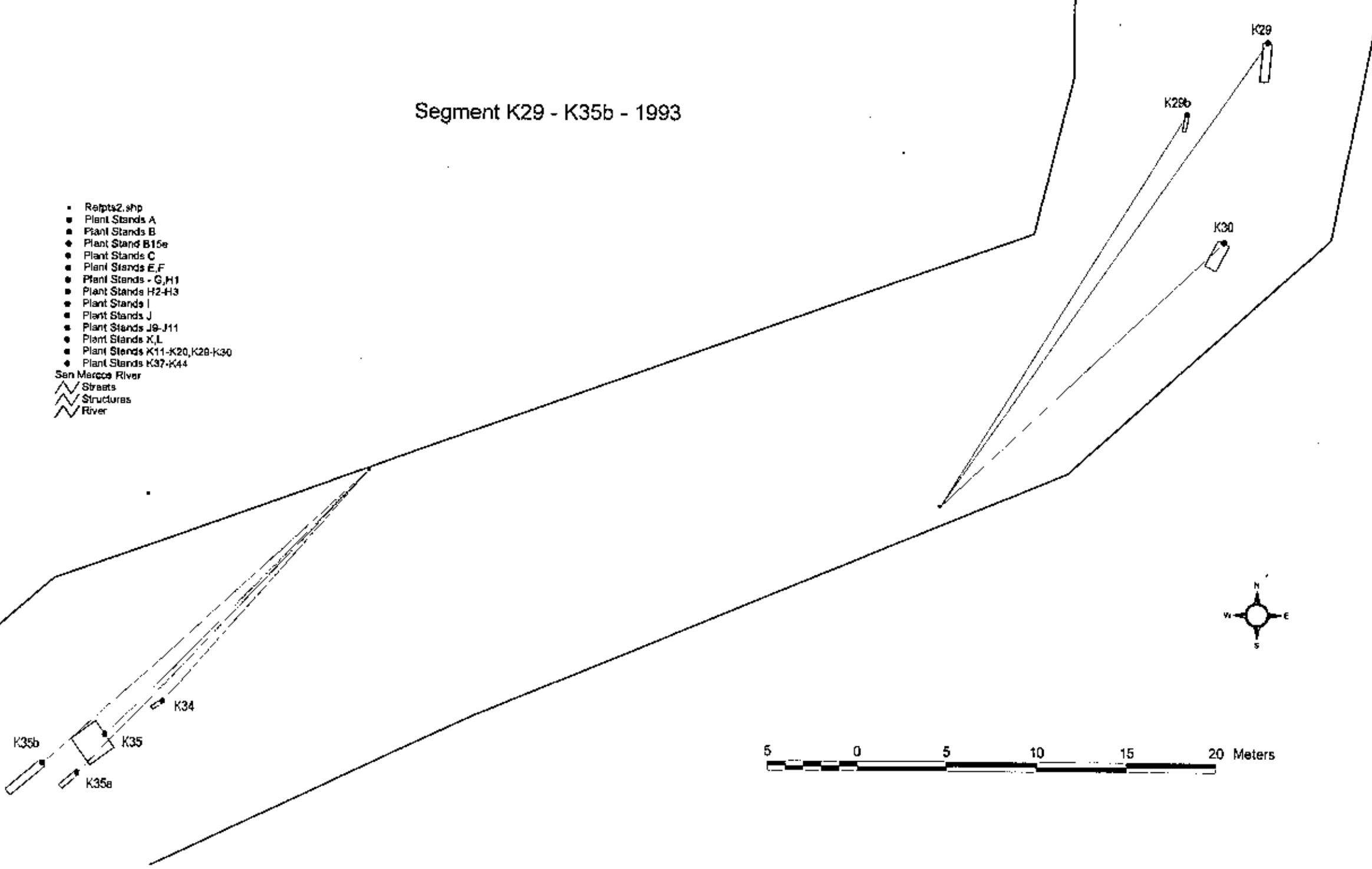


### Segment K29 - K35b - 1993

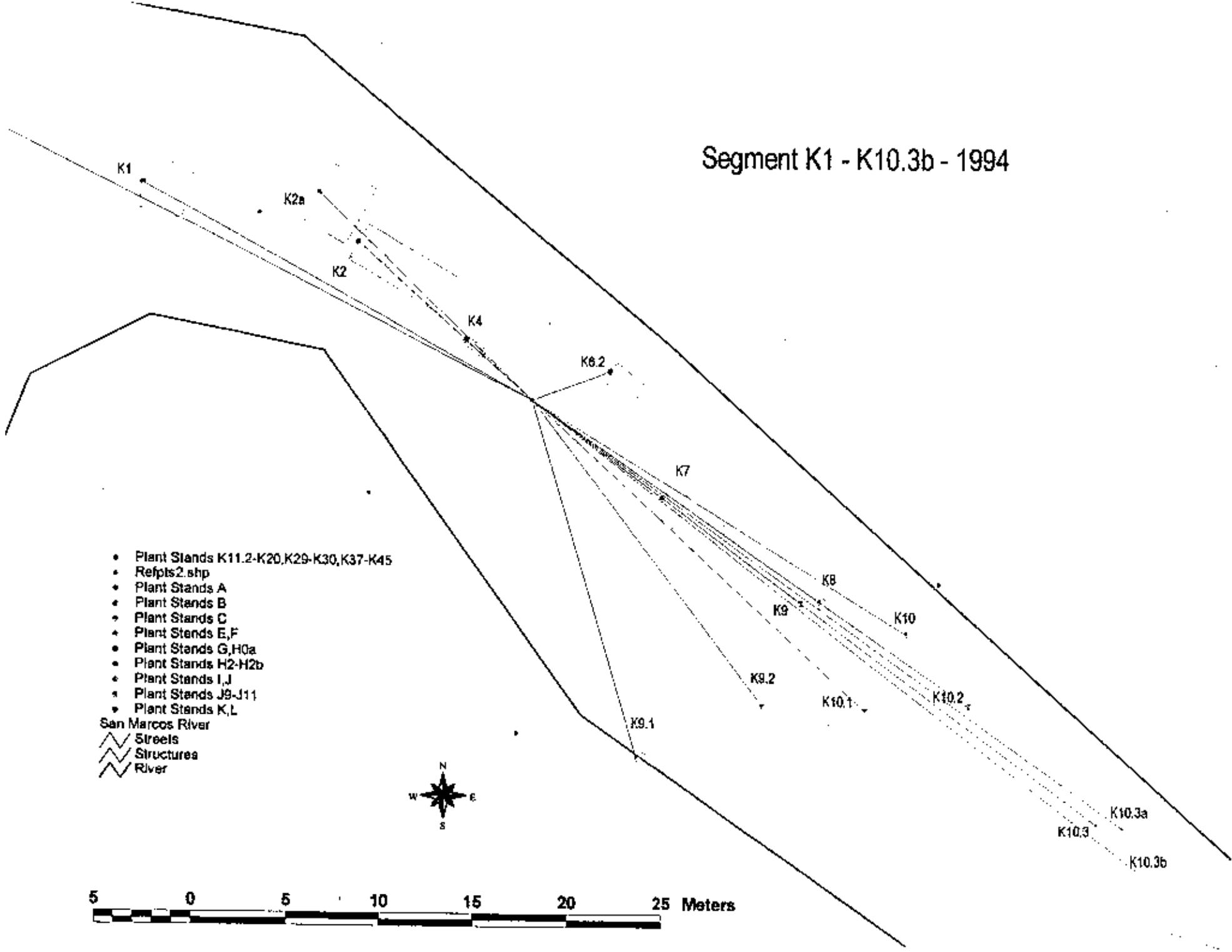
- Repts2.shp
- Plant Stands A
- Plant Stands B
- ◆ Plant Stand B15e
- Plant Stands C
- Plant Stands E,F
- Plant Stands - G,H1
- Plant Stands H2-H3
- Plant Stands I
- Plant Stands J
- Plant Stands J9-J11
- Plant Stands X,L
- Plant Stands K11-K20,K28-K30
- Plant Stands K37-K44

San Marcos River

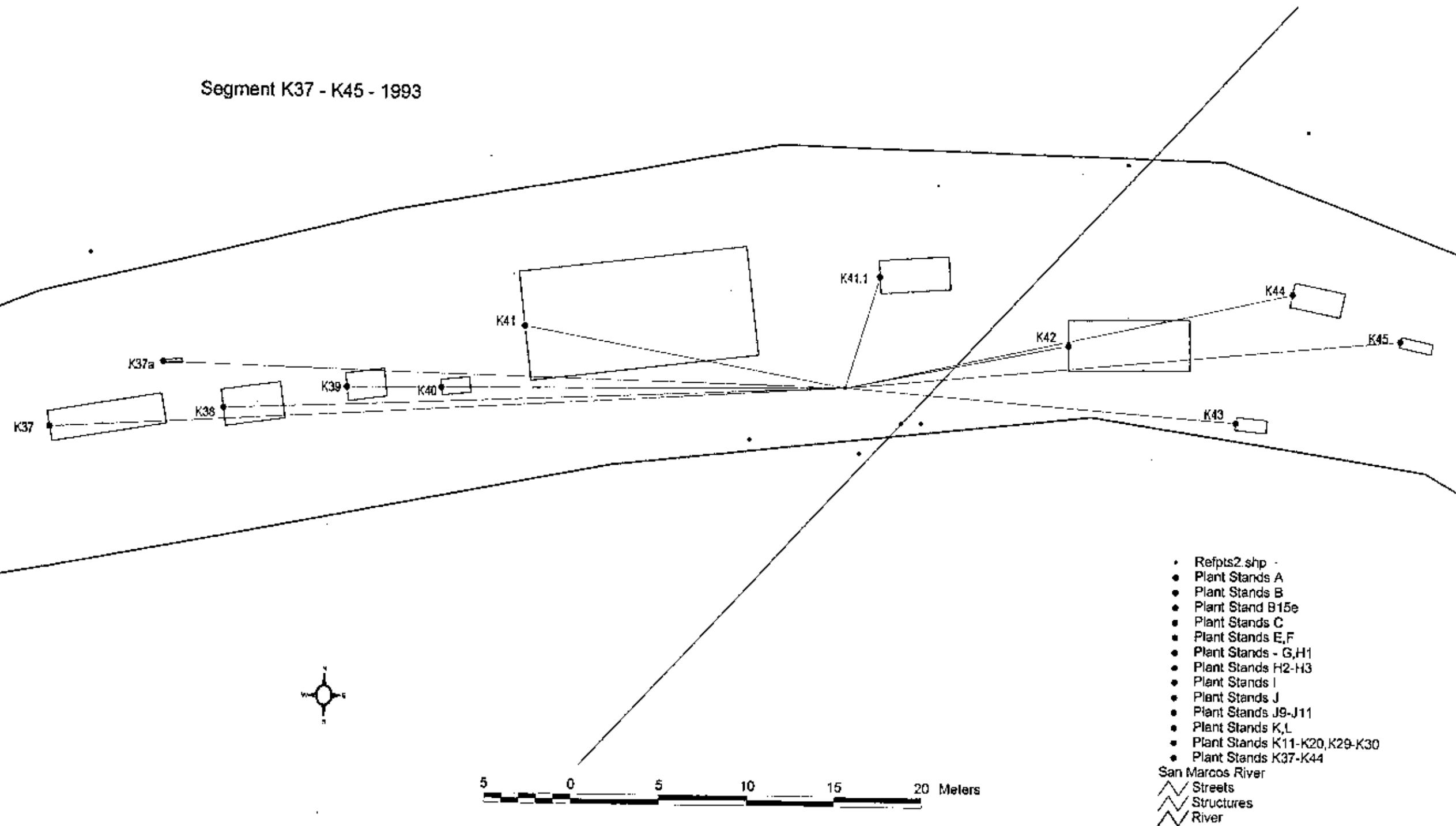
- ✓ Streets
- ✓ Structures
- ✓ River



## Segment K1 - K10.3b - 1994



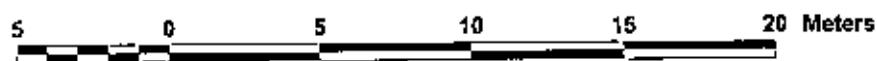
Segment K37 - K45 - 1993

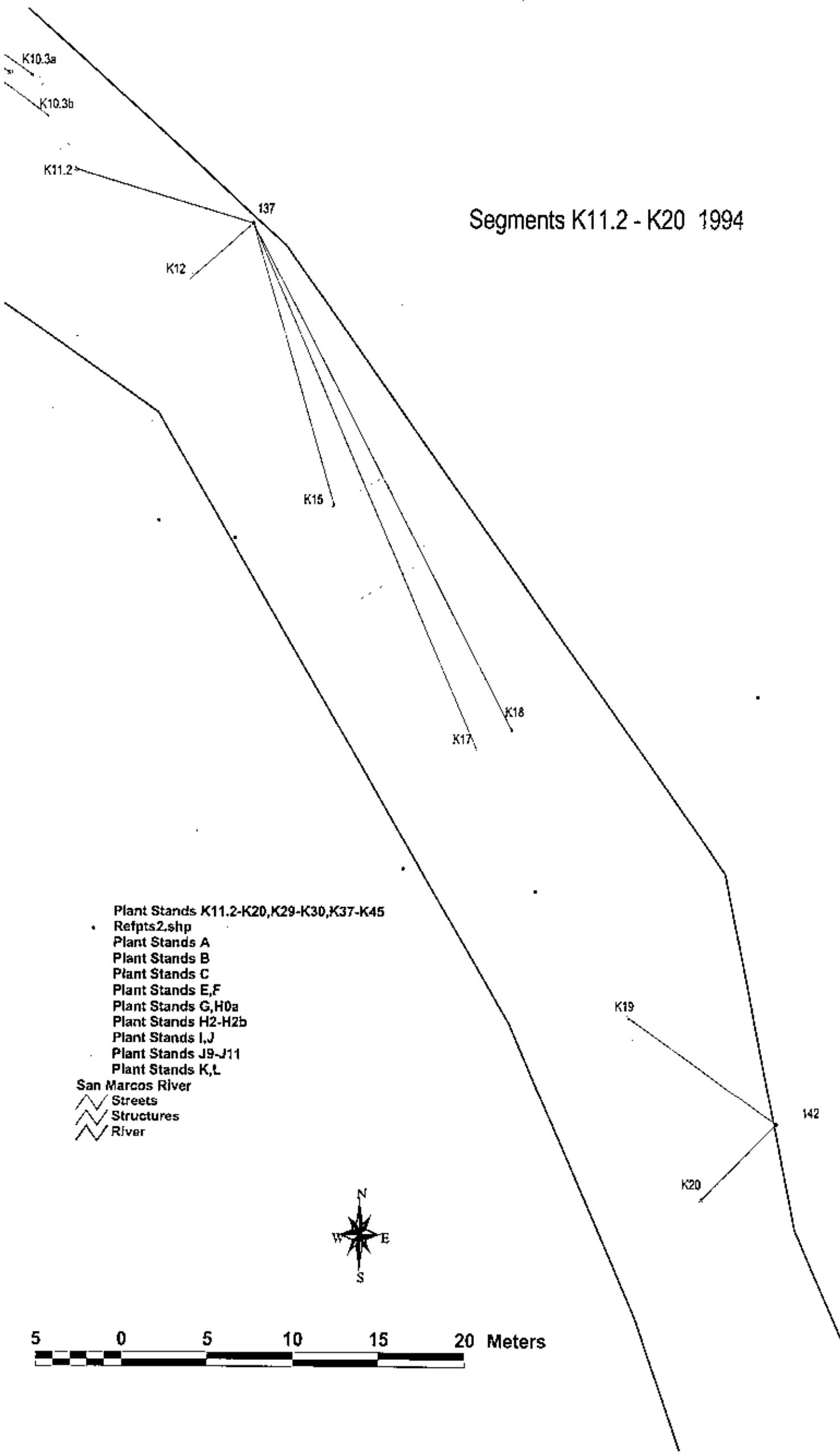


Segment K36.1 - K36.3 1994

K36.1  
K36.2  
K36.3

- Plant Stands K11.2-K20,K29-K30,K37-K45
- Refpts2.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands G,H0a
- Plant Stands H2-H2b
- Plant Stands I,J
- Plant Stands J9-J11
- Plant Stands K,L
- San Marcos River
- ~~ Streets
- ~~ Structures
- ~~ River





## Segment K29 - K35a - 1994

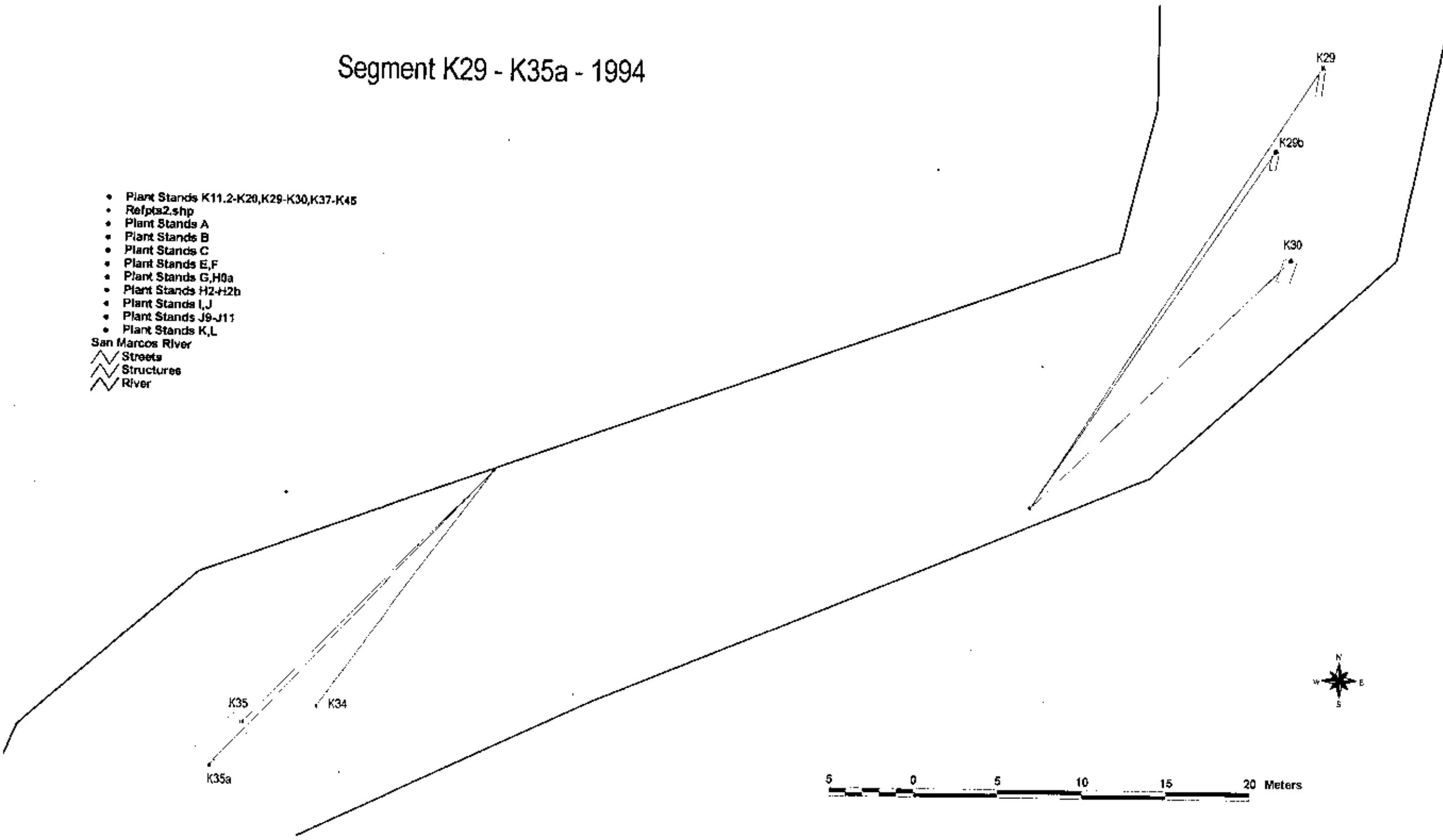
- Plant Stands K11.2-K20,K29-K30,K37-K45
- Refpts2.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands G,H0a
- Plant Stands H2-H2b
- Plant Stands I,J
- Plant Stands J9-J11
- Plant Stands K,L

San Marcos River

Streets

Structures

River



Segment K47.2 & L0 - 1994

K47.2

L0

- Plant Stands K11.2-K20,K29-K30,K37-K45
- Repts2.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands G,H0a
- Plant Stands H2-H2b
- Plant Stands I,J
- Plant Stands J9-J11
- Plant Stands K,L

San Marcos River

- ~~~~ Streets
- ~~~~ Structures
- ~~~~ River



## Segment K1 - K10.3a 1995

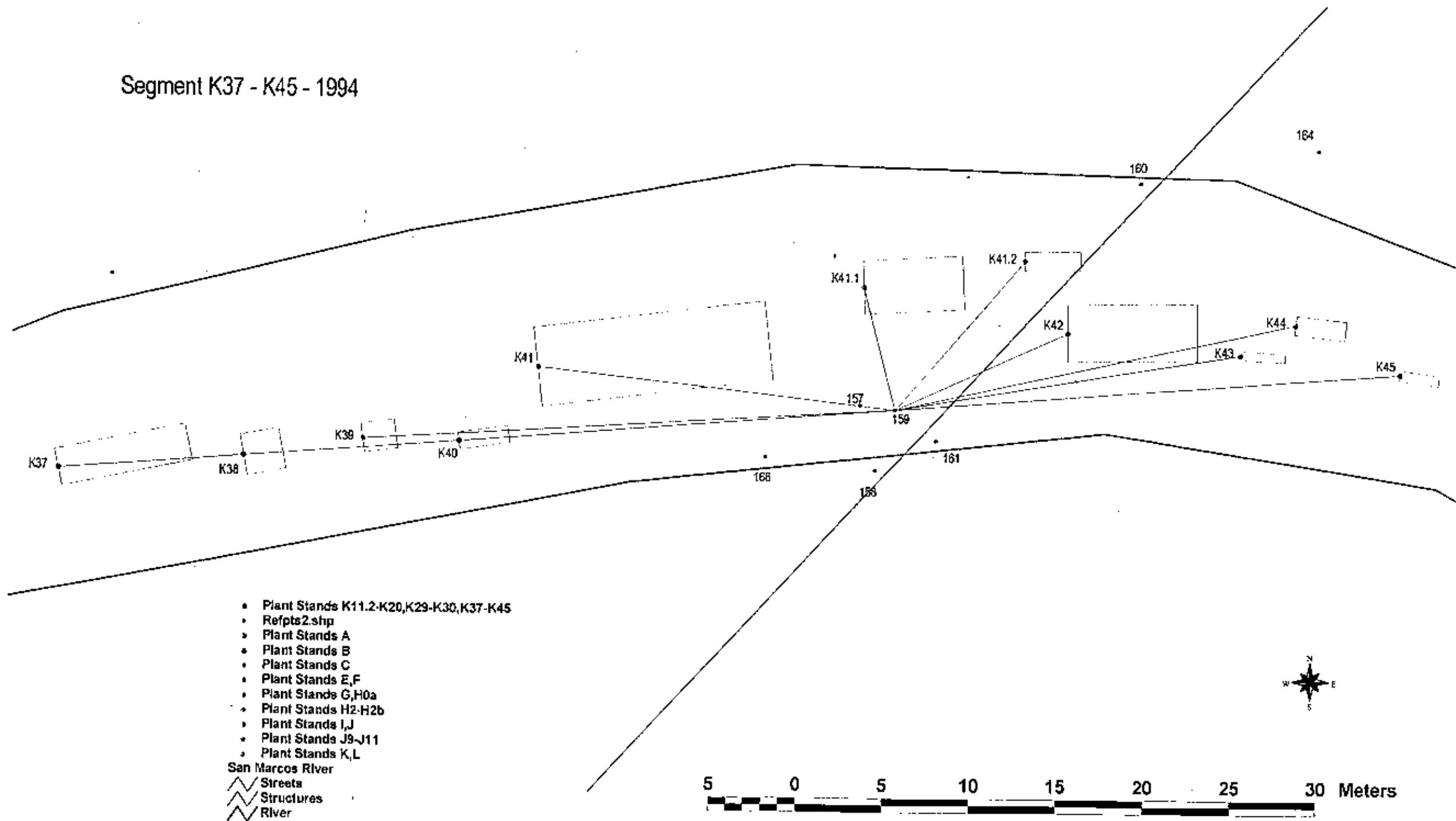
- Re/pts4.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands G
- Plant Stands H
- Plant Stands I,J
- Plant Stands J8-J11c
- Plant Stands K,L
- Plant Stands K11.2-K30,K37-K45
- Plant Stand K30

San Marcos River

- ✓ Streets
- ✓ Structures
- ✓ River



## Segment K37 - K45 - 1994



## Segment K36.1 - K36.3 1995

K36.1  
K36.2  
K36.3  
154  
155

- Reptis9.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands B3f+
  - Plant Stands C
  - Plant Stands C5,S,C9
  - Plant Stands E,F
  - Plant Stands F4,4,F8,F8d,F11-F15
  - Plant Stands G
  - Plant Stands H
  - Plant Stands I,J
  - Plant Stands J8-J11c
  - Plant Stands K,L
  - Plant Stands K11.2-K30,K37-K45
  - Plant Stand K30
- San Marcos River  
Streets  
Structures  
River



## Segment K11.2 - K20 - 1995

K10.3B

137

K11.2

K14

K15

K16

K18  
K17  
K17b  
K17a  
K18.1

K19

142

K20

- Refpts4.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands G
- Plant Stands H
- Plant Stands I,J
- Plant Stands J8-J11c
- Plant Stands K,L
- Plant Stands K11.2-K30,K37-K45
- Plant Stand K30

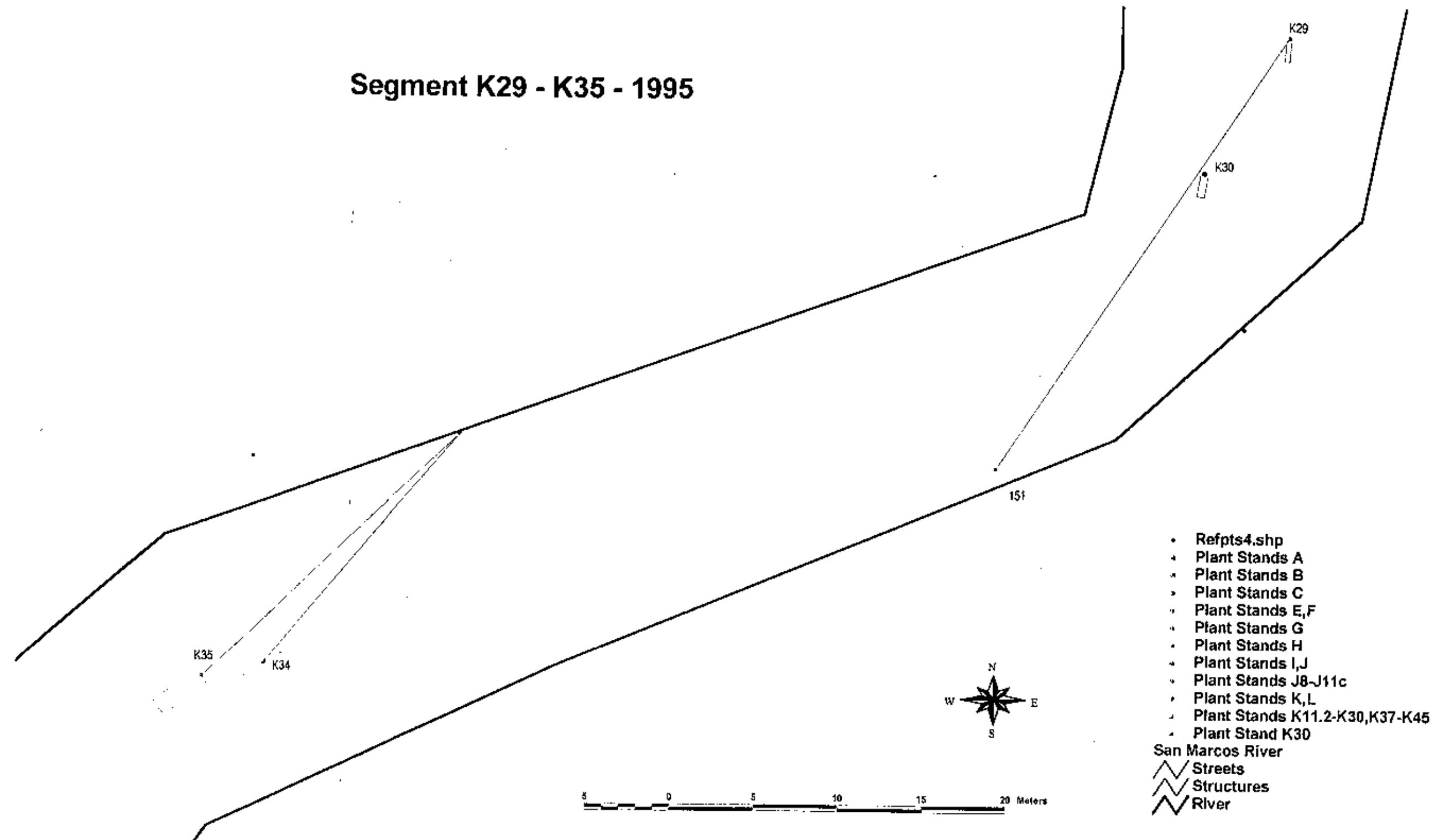
### San Marcos River

- △ Streets
- △ Structures
- △ River



5 0 5 10 15 20 Meters

## Segment K29 - K35 - 1995



## Segment K48 - 1995

K45

168 K48

169

- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands B3j+
- Plant Stands C
- Plant Stands C5,5, C9
- Plant Stands E,F
- Plant Stands F4,4,F8,F8d,F11-F15
- Plant Stands G
- Plant Stands H
- Plant Stands I,J
- Plant Stands J8-J11c
- Plant Stands K,L
- Plant Stands K11,2-K30,K37-K45
- Plant Stand K30

San Marcos River

- ✓ Streets
- ✓ Structures
- ✓ River



5 0 5 10 15 Meters

### Segment K1 - K10.3c 1996

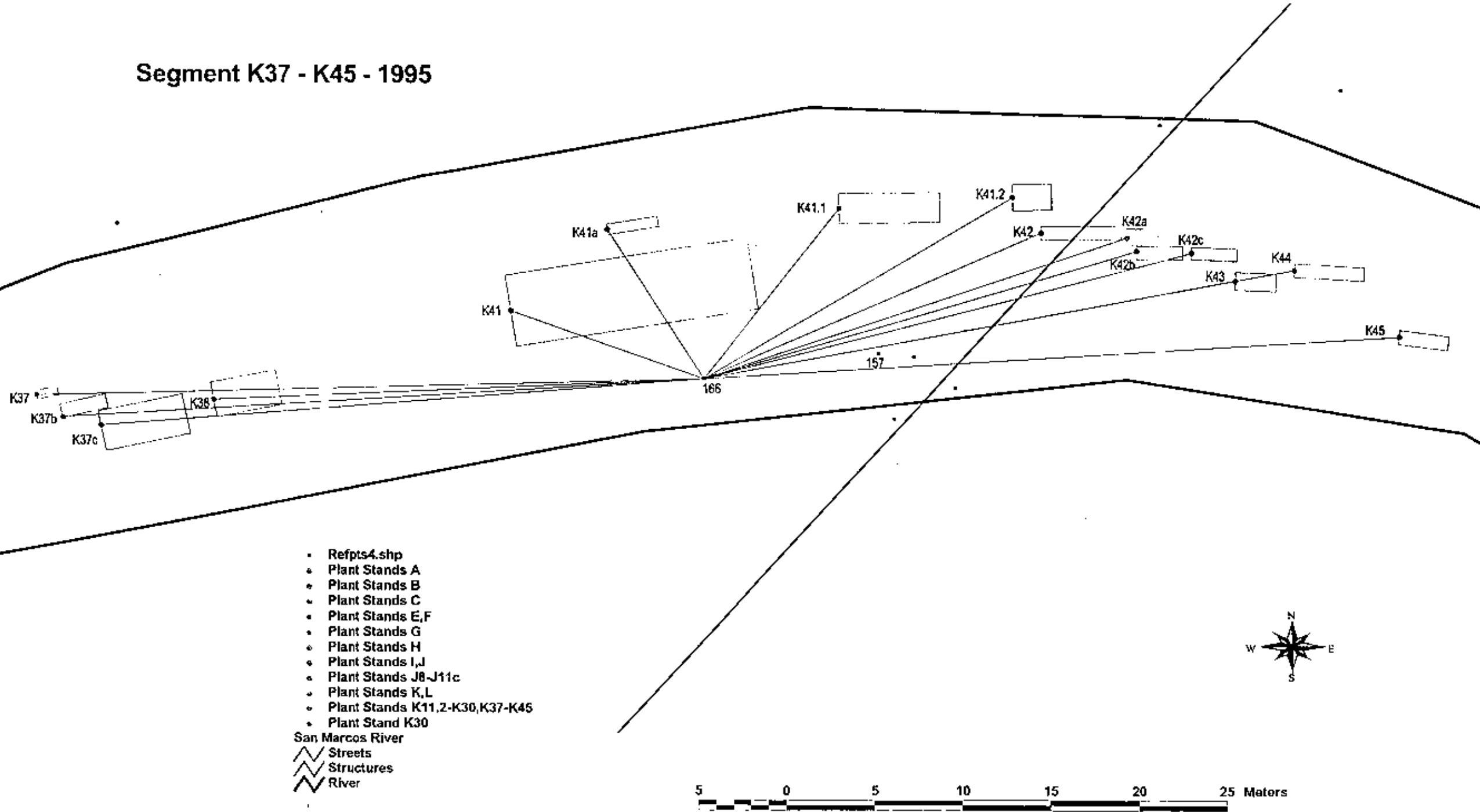
- Plant Stands K14-K20, K29, K37-K45
- Plant Stand K10.3
- Refpts5.shp
- Plant Stands B
- Plant Stands C
- Plant Stands G,H
- Plant Stands E,F
- Plant Stands I,J
- Plant Stands J8-J11c,J13,J13a,J21
- Plant Stands K,L

San Marcos River

- ~~~~ Streets
- ~~~~ Structures
- ~~~~ River



## Segment K37 - K45 - 1995



Segment K36 .1- K36.3 1996

K36.1  
K36.2  
K36.3

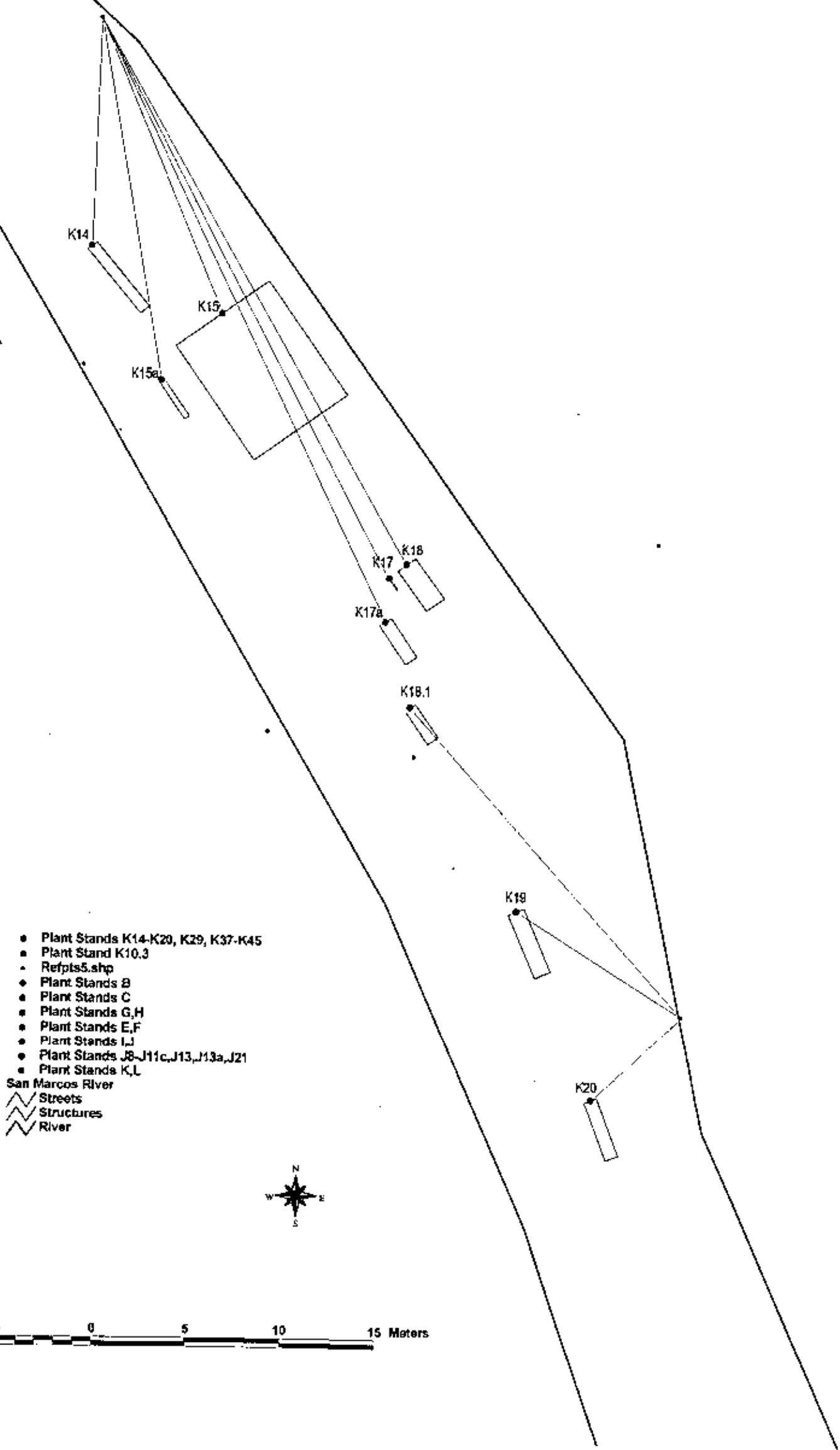
- Plant Stands K14-K20, K29, K37-K45
- Plant Stand K10.3
- Refpts5.shp
- Plant Stands B
- Plant Stands C
- Plant Stands G,H
- Plant Stands E,F
- Plant Stands I,J
- Plant Stands J8-J11c,J13,J13a,J21
- Plant Stands K,L

San Marcos River

- / Streets
- / Structures
- / River



## Segment K14-K20 1996

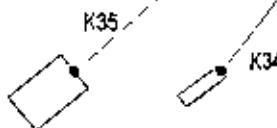


## Segment K29 - K35 1996

- Plant Stands K14-K20, K29, K37-K45
- Plant Stand K10.3
- Repts5.shp
- Plant Stands B
- Plant Stands C
- Plant Stands G,H
- Plant Stands E,F
- Plant Stands I,J
- Plant Stands J8-J11c,J13,J13a,J21
- Plant Stands K,L

San Marcos River

- Streets
- Structures
- River



K29



5 0 5 10 15 20 25 Meters

Segment K48 & L0, L0.1 1996

K45

K48



- Plant Stands K14-K20, K29, K37-K45
- Plant Stand K10,J
- RefugShp
- Plant Stands B
- Plant Stands C
- Plant Stands G,H
- Plant Stands E,F
- Plant Stands I,J
- Plant Stands J8-J11c,J13,J14,J21
- Plant Stands K,L

San Marcos River

- ~~~~ Streets
- ~~~~ Structures
- ~~~~ River



L0.1  
L0

## Segment K2a- K10.3b 1997

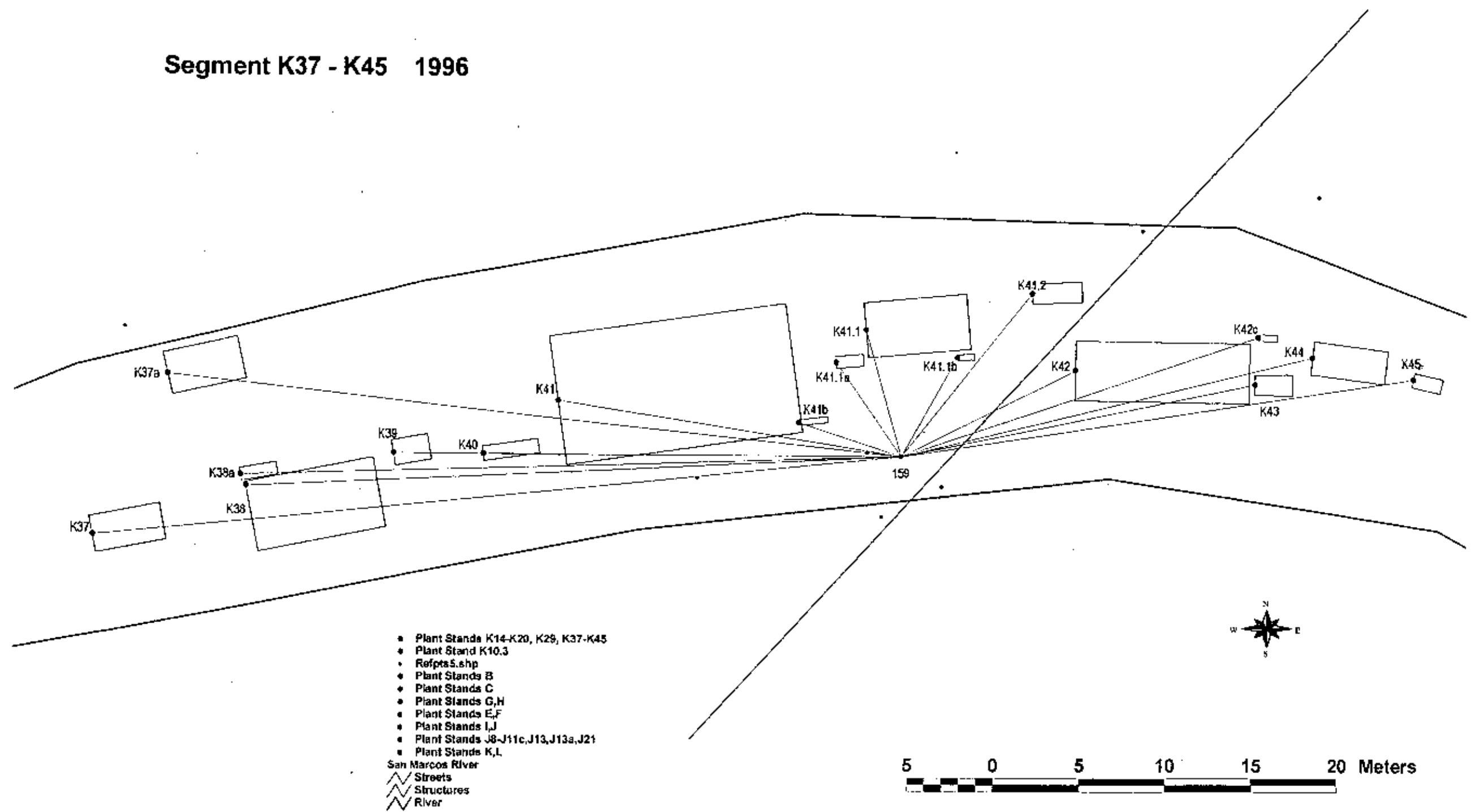
- Refpts9.shp
- Plant Stands A
- Segment B
- Plant Stands B1.1+
- Plant Stands C
- Plant Stands C2a,C5b,C5.5,C7,C9-C9d
- Plant Stands E,F
- Plant Stands E0, E14
- Plant Stands F3-F5.1,F7,F11-F15
- Plant Stands G,H
- Plant Stands G2-G3
- Plant Stands J
- Plant Stands J1a,J7.2-J11
- Plant Stands K,L
- Plant Stands K18.1-K20, K37-K45

San Marcos River

- ~~~ Streets
- ~~~~ Structures
- ~~~~~ River



## Segment K37 - K45 1996



Segment K34 - K36.3 1997 153

K35 K34

152

- Refpts9.shp
  - Plant Stands A
  - Segment B
  - Plant Stands B1.1+
  - Plant Stands C
  - Plant Stands C2a,C5b,C5.5,C7,C9-C9d
  - Plant Stands E,F
  - Plant Stands E0, E14
  - Plant Stands F3-F5.1,F7,F11-F15
  - Plant Stands G,H
  - Plant Stands G2-G3
  - Plant Stands J
  - Plant Stands J1a,J7.2-J11
  - Plant Stands K,L
  - Plant Stands K10.1-K20, K37-K45
- San Marcos River
- △ Streets
  - △ Structures
  - △ River



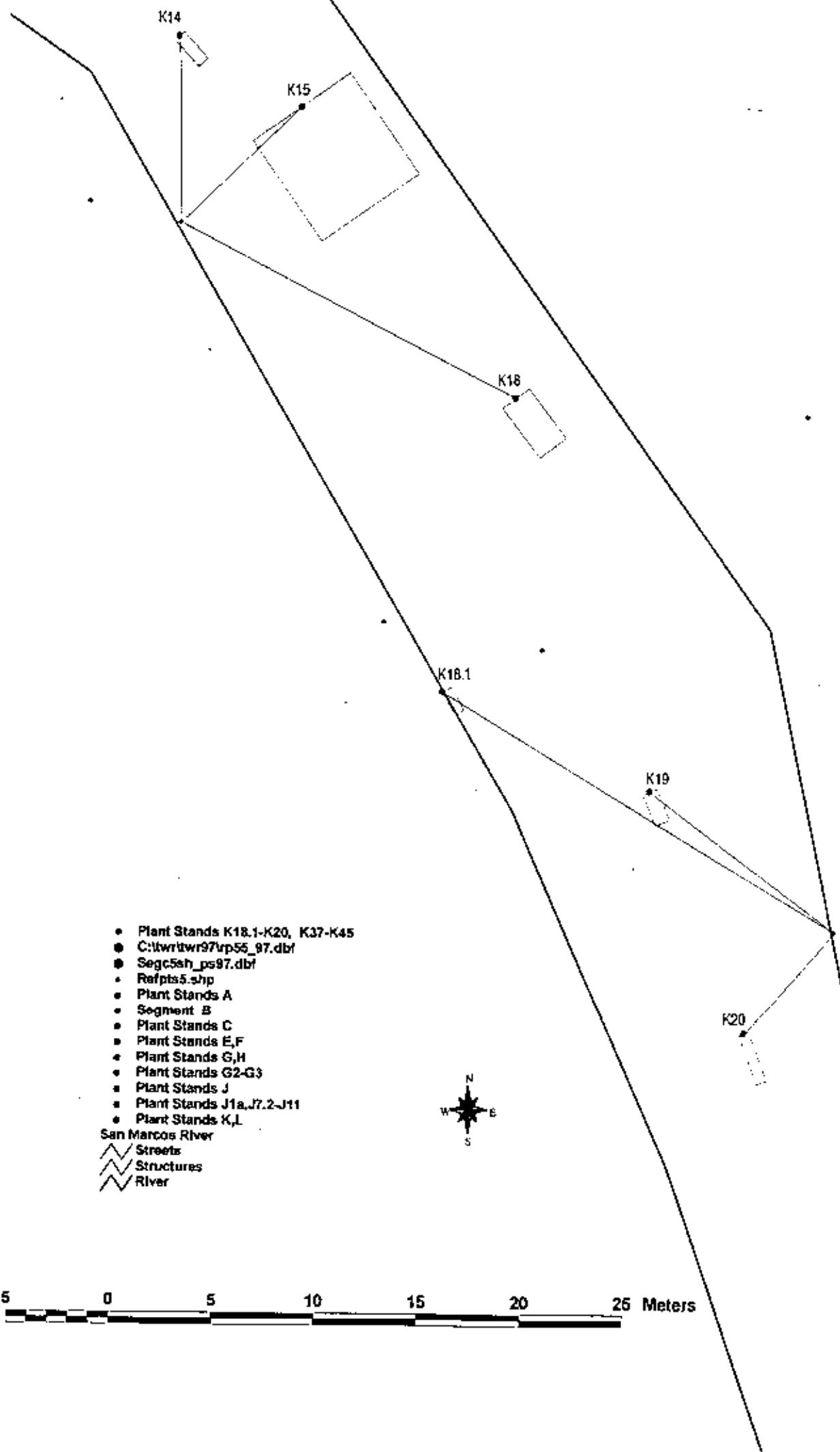
5 0 5 10 15 Meters

154

K36.2 K36.3

155

## Segment K14 - K20 1997



Segment K2a - K10.3c 1998

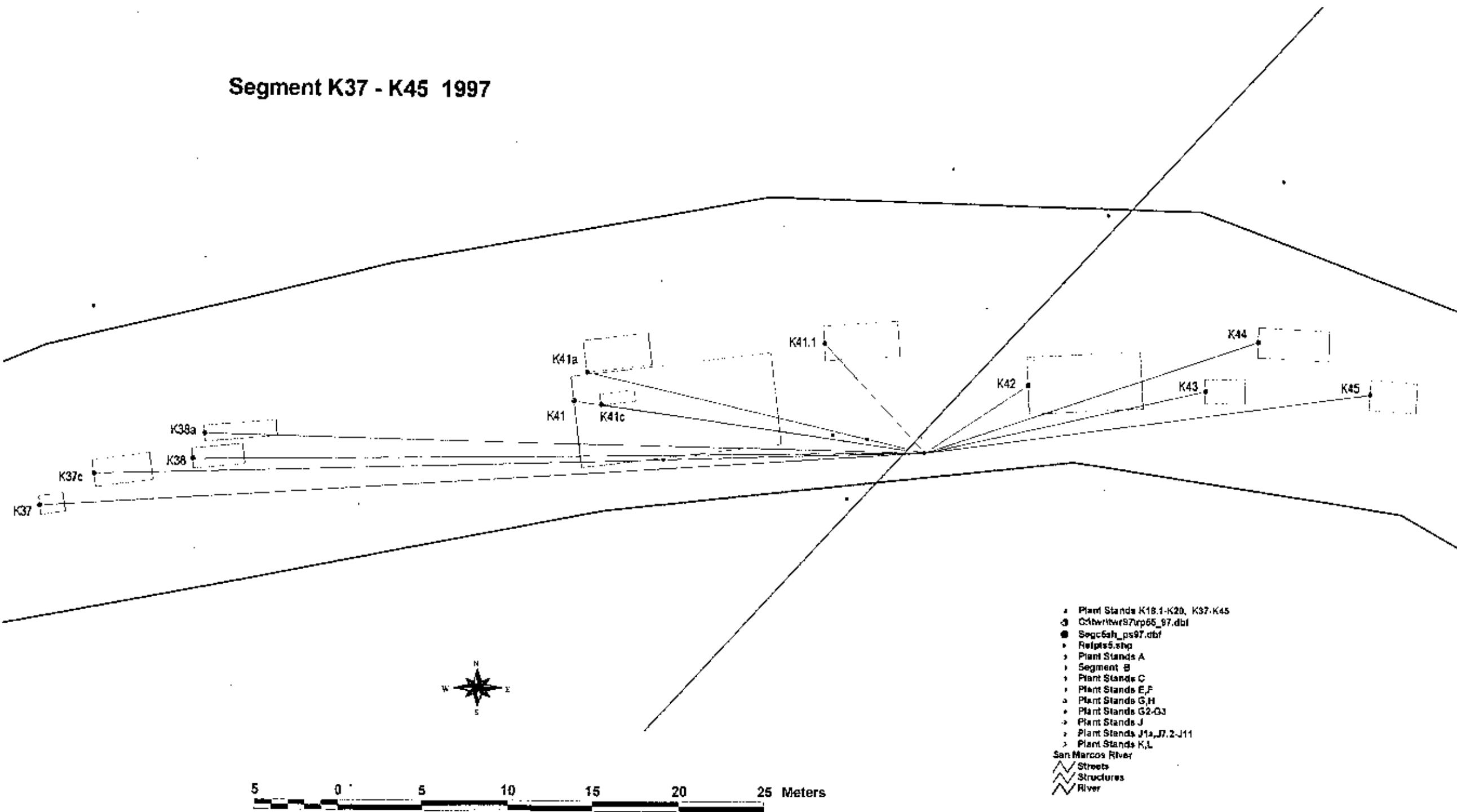
- Refpts9.shp
- Plant Stands A
- Plant Stand A0.20
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stand E9.1
- Plant Stands F7,F11-F16
- Plant Stands G
- Plant Stands H
- Plant Stands J
- Plant Stands J7.2-J11
- Plant Stands K
- Plant Stands K18.1-K20.1, K37-K45

San Marcos River

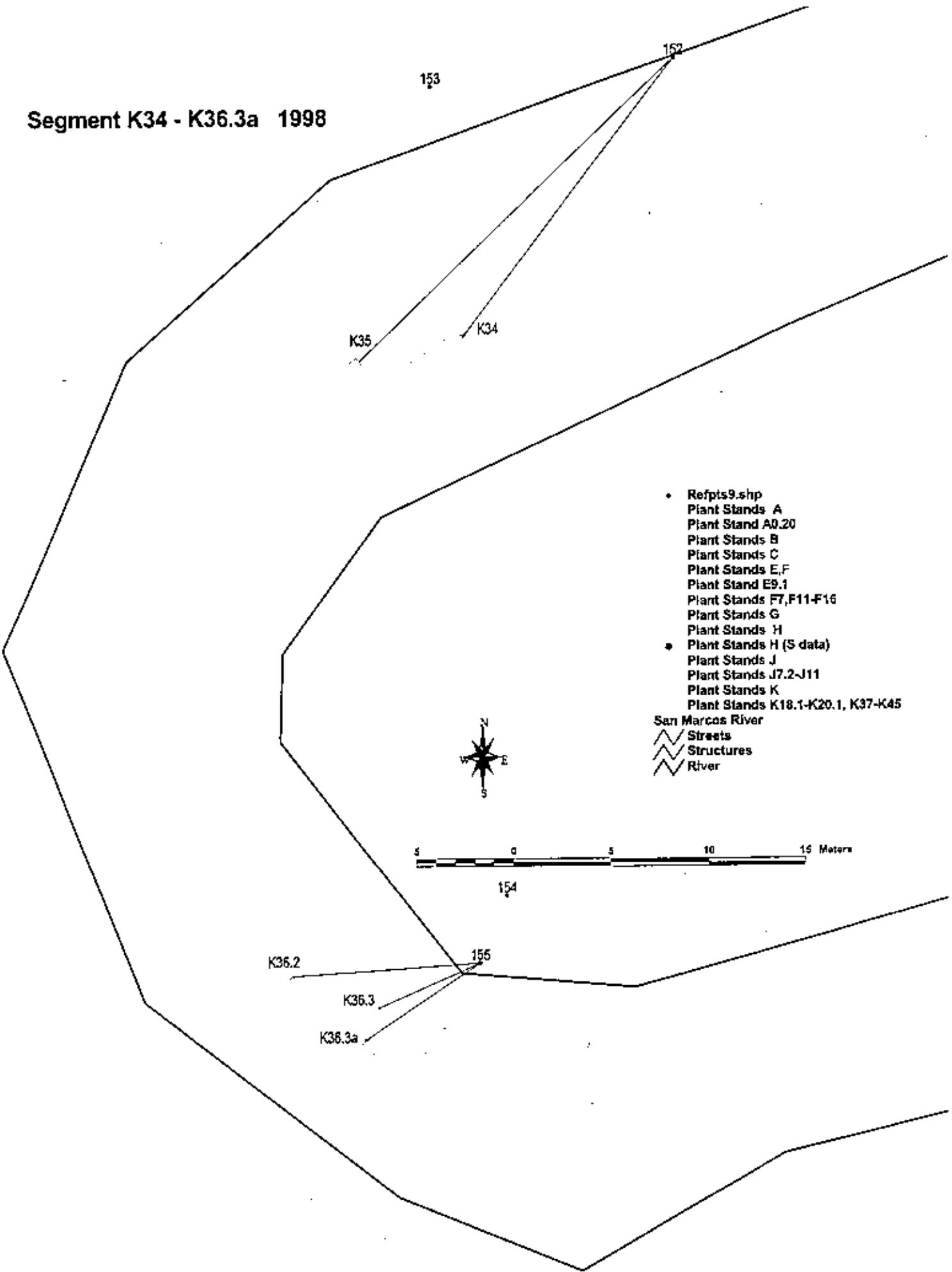
- Streets
- Structures
- River



## Segment K37 - K45 1997



Segment K34 - K36.3a 1998

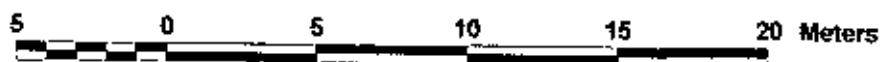
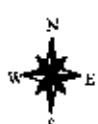


**Segment K14 - K20.1 1998**

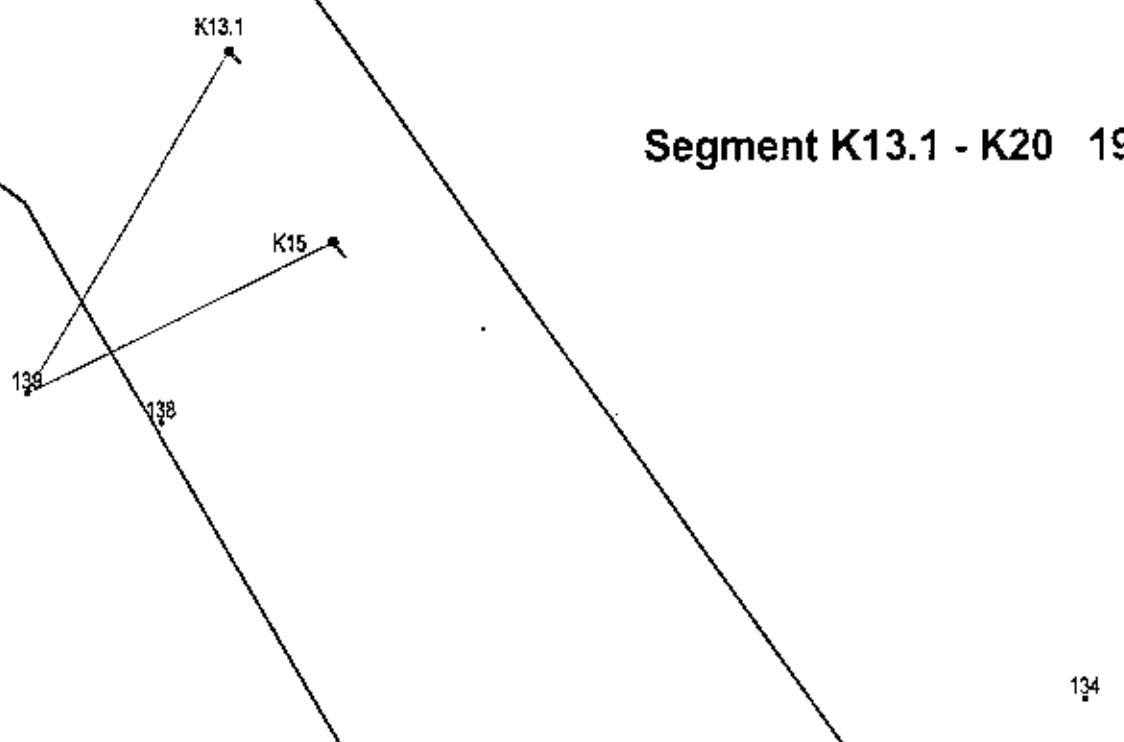
- 
- Refpts5.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands C
  - Plant Stands E,F
  - Plant Stands G
  - Plant Stands H
  - Plant Stands H (S data)
  - Plant Stands J
  - Plant Stands J7.2-J11
  - Plant Stands K
  - Plant Stands K18.1-K20.1, K37-K45

San Marcos River

- ~~~~ Streets
- ~~~~ Structures
- ~~~~ River



## Segment K13.1 - K20 1999



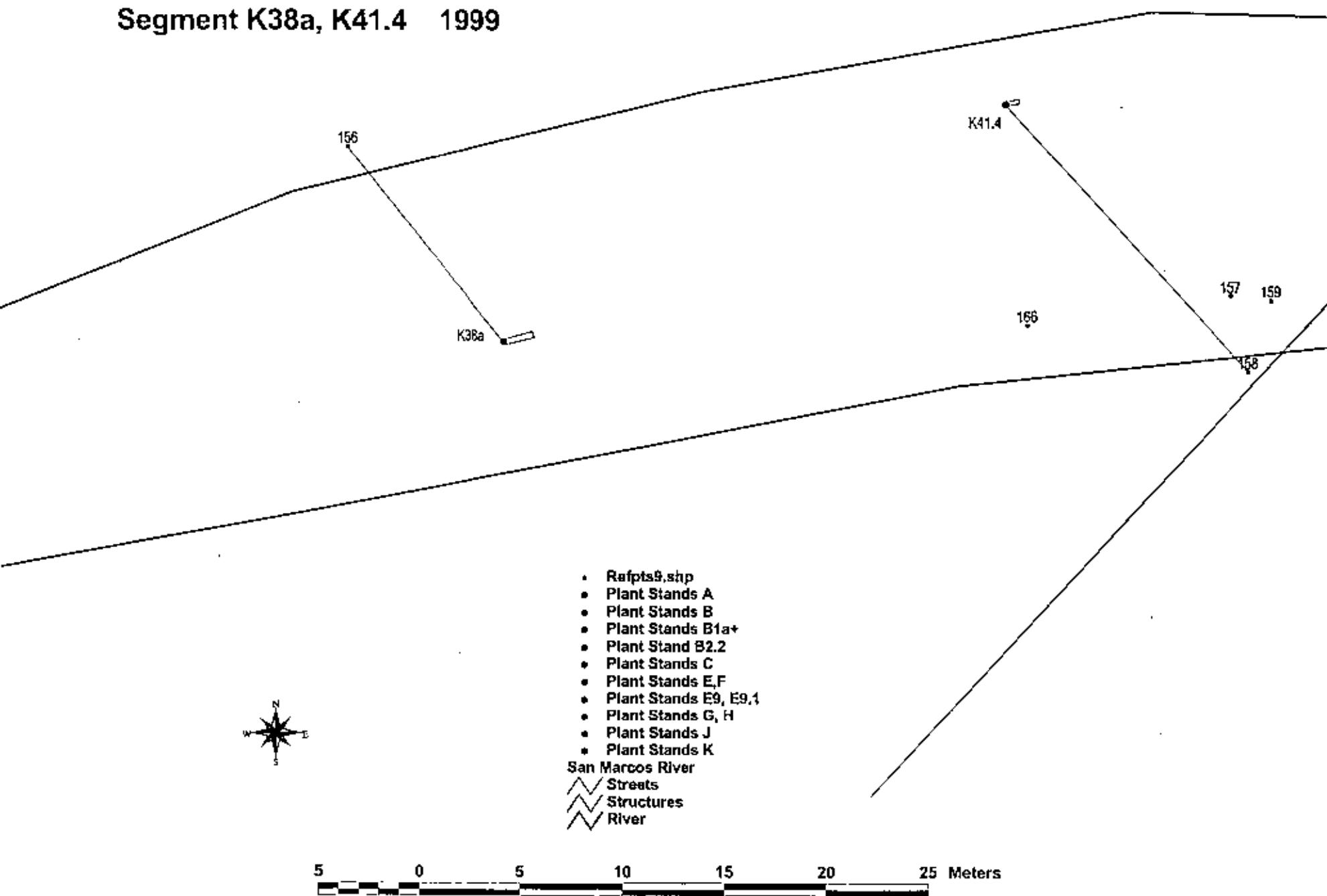
- Refpts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands B1a+
- Plant Stand B2.2
- Plant Stands C
- Plant Stands E,F
- Plant Stands E9, E9.1
- Plant Stands G, H
- Plant Stands J
- Plant Stands K

### San Marcos River

- △ Streets
- △ Structures
- △ River



Segment K38a, K41.4 1999



Segment K2a - K9.1 2000

- Refpts9.shp
  - Plant Stands A
  - ▲ Plant Stands B
  - Plant Stands C
  - △ Plant Stands C1,C2.1,C5.5-C5.7,C9c,C9d
  - Plant Stands E,F
  - ▲ Plant Stands E6,E8-E11c
  - Plant Stands G, H
  - Plant Stands J
  - Plant Stands K
- San Marcos River
- ／＼ Streets
  - ／＼ Structures
  - ／＼ River

5 0 5 10 15 20 Meters



127

131

K2a

K2aa

173

132

133

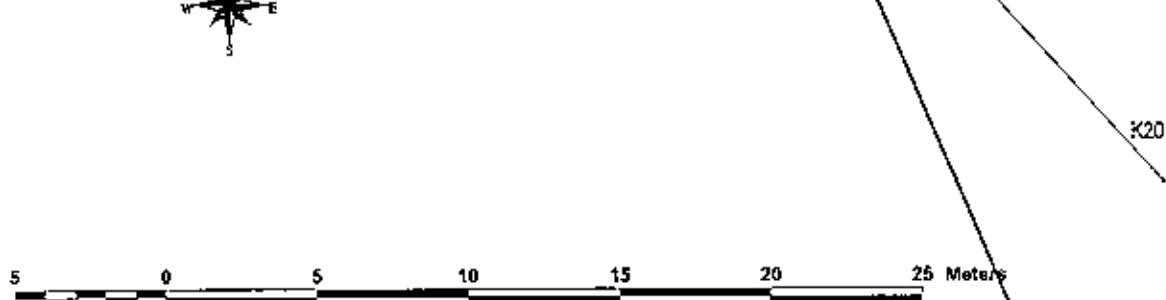
K9.1

J21a

## Segment K15 - K20 2000



- Refpts9.shp
  - Plant Stands A
  - Plant Stands B
  - Plant Stands C
  - Plant Stands C1,C2.1,C5.5-C5.7,C9c,C9d
  - Plant Stands E,F
  - Plant Stands E6,E8-E11c
  - Plant Stands G, H
  - Plant Stands J
  - Plant Stands K
  - San Marcos River
- Streets  
 Structures  
 River



Segment K27.1, K27.2 2000

- Refpts5.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands G, H
- Plant Stands J
- Plant Stands K

San Marcos River

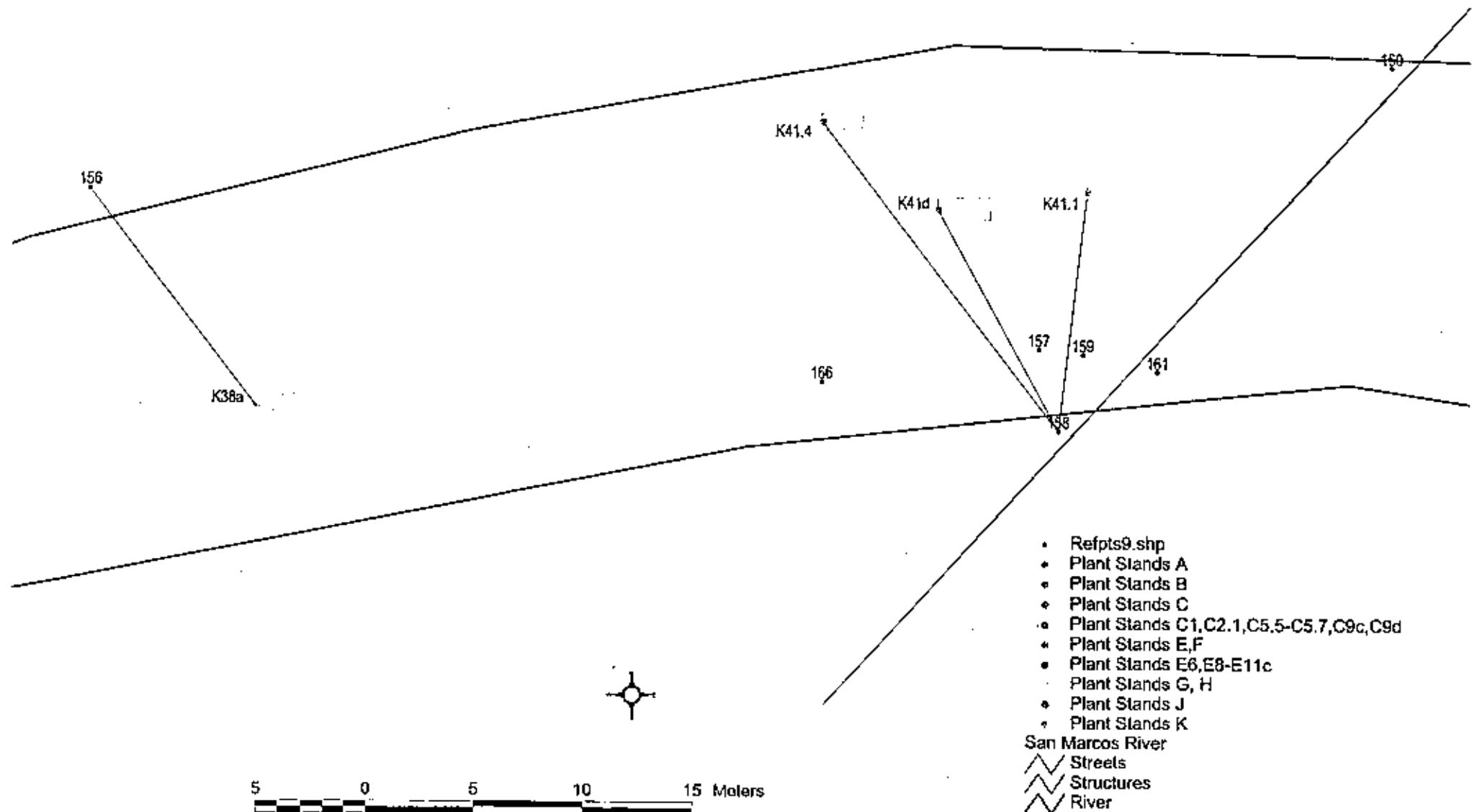
- Streets
- Structures
- River

K27.1

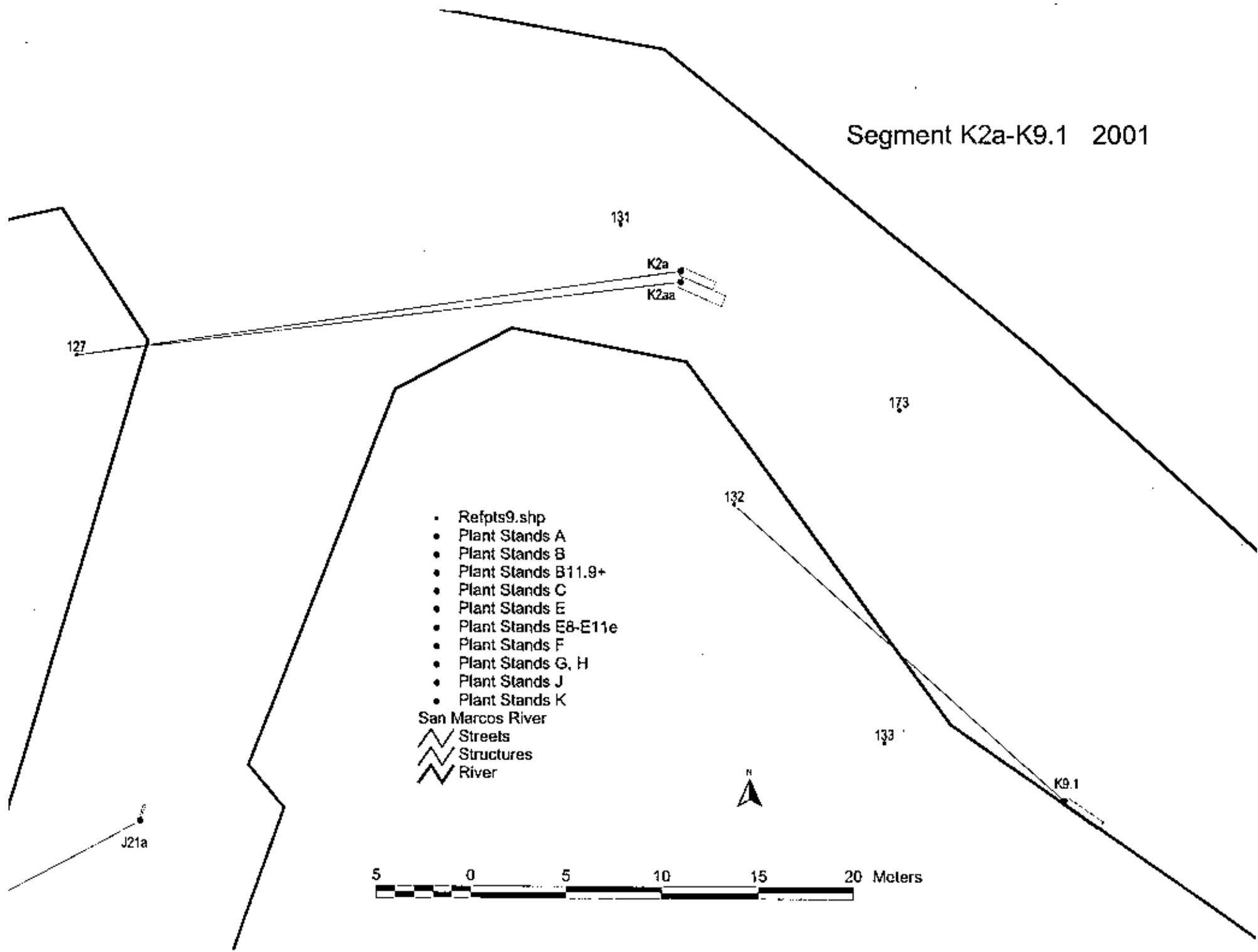
K27.2



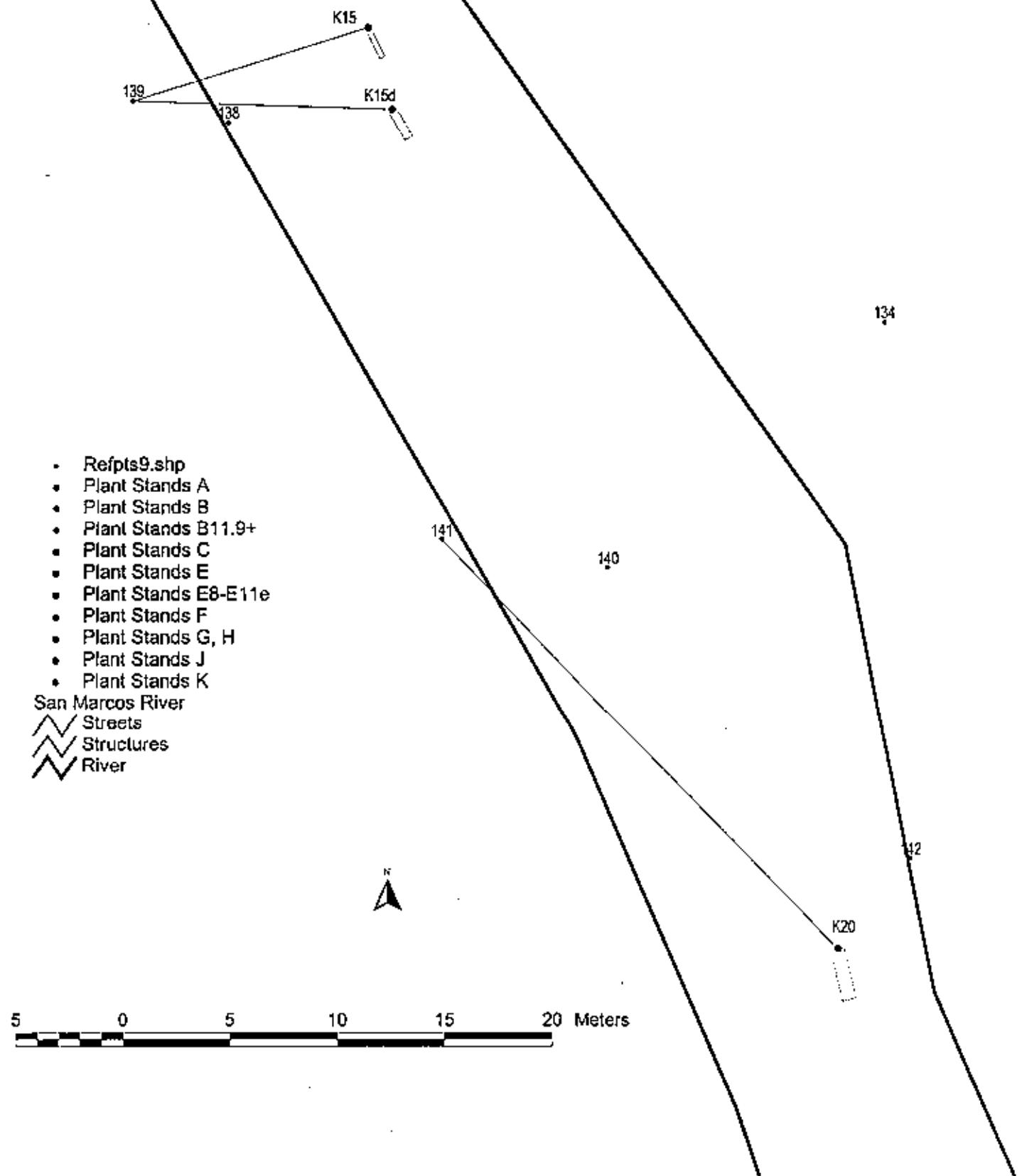
Segment K38a - K41.4 2000



Segment K2a-K9.1 2001



## Segment K15 - K20 2001



Segment K27.1, K27.2 2001

148

150

K27.1

K27.2

- Repts9.shp
- Plant Stands A
- Plant Stands B
- Plant Stands B11.9+
- Plant Stands C
- Plant Stands E
- Plant Stands E8-E11e
- Plant Stands F
- Plant Stands G, H
- Plant Stands J
- Plant Stands K

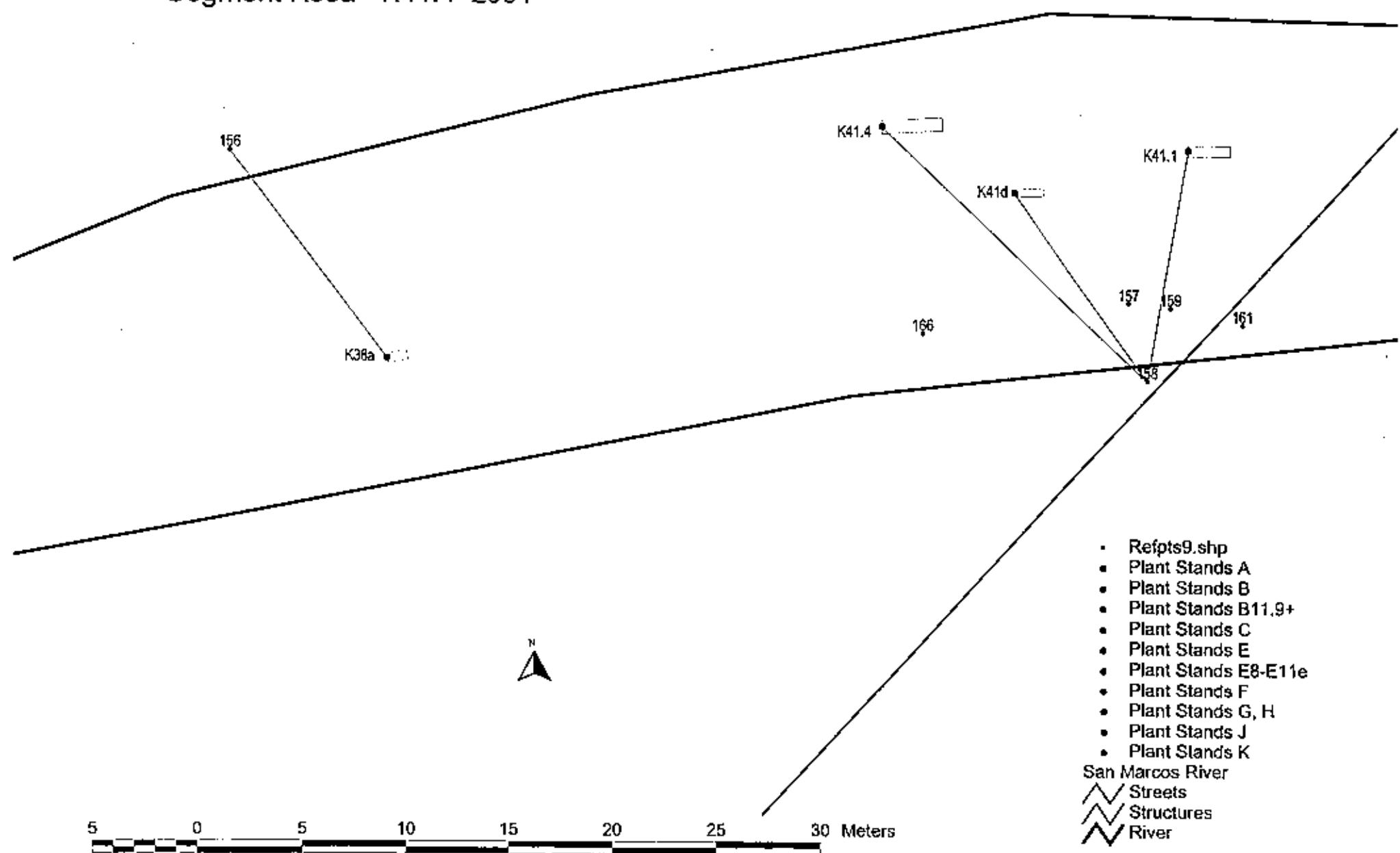
San Marcos River

- ~ Streets
- ~ Structures
- ~ River

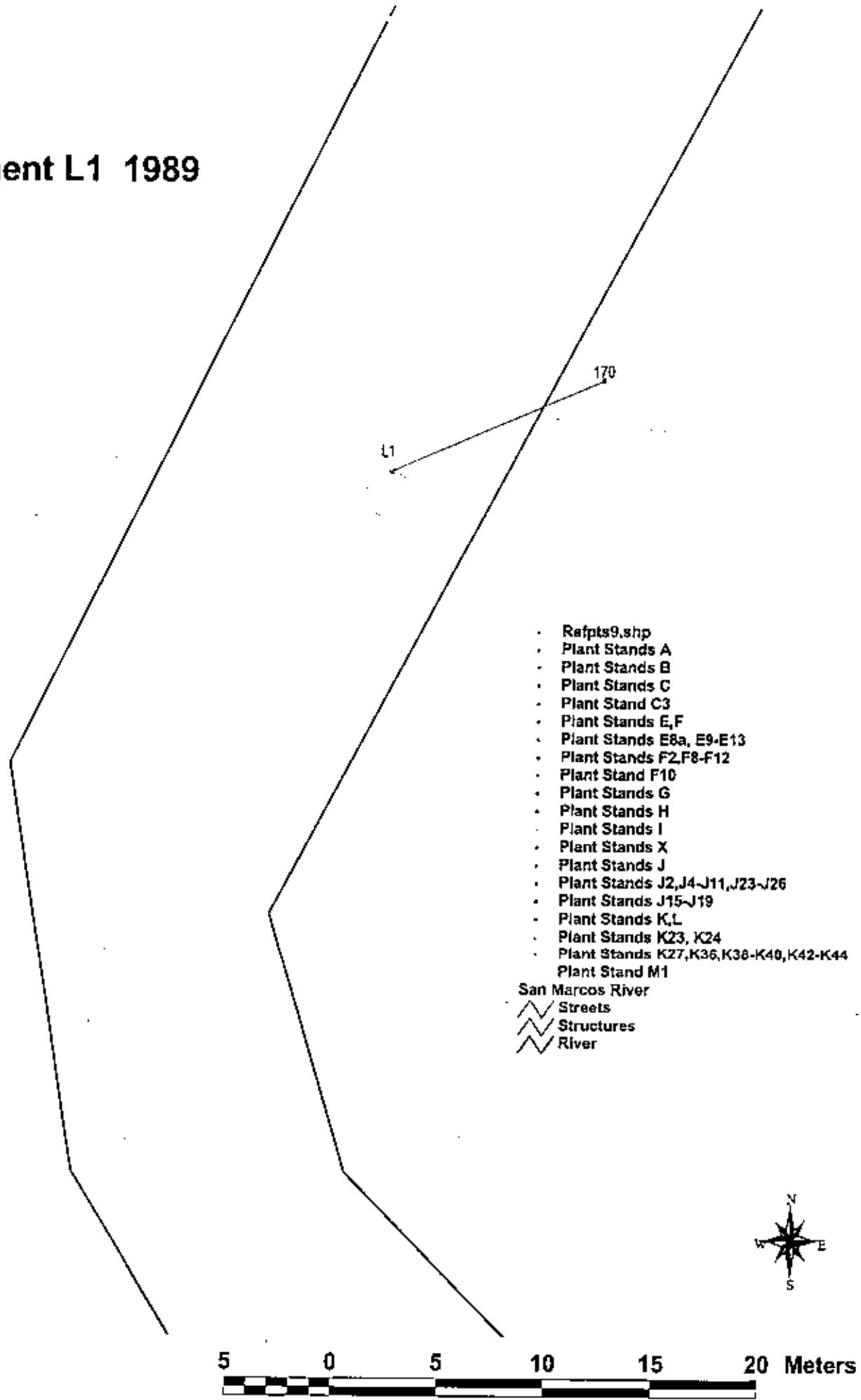


5 0 5 10 15 Meters

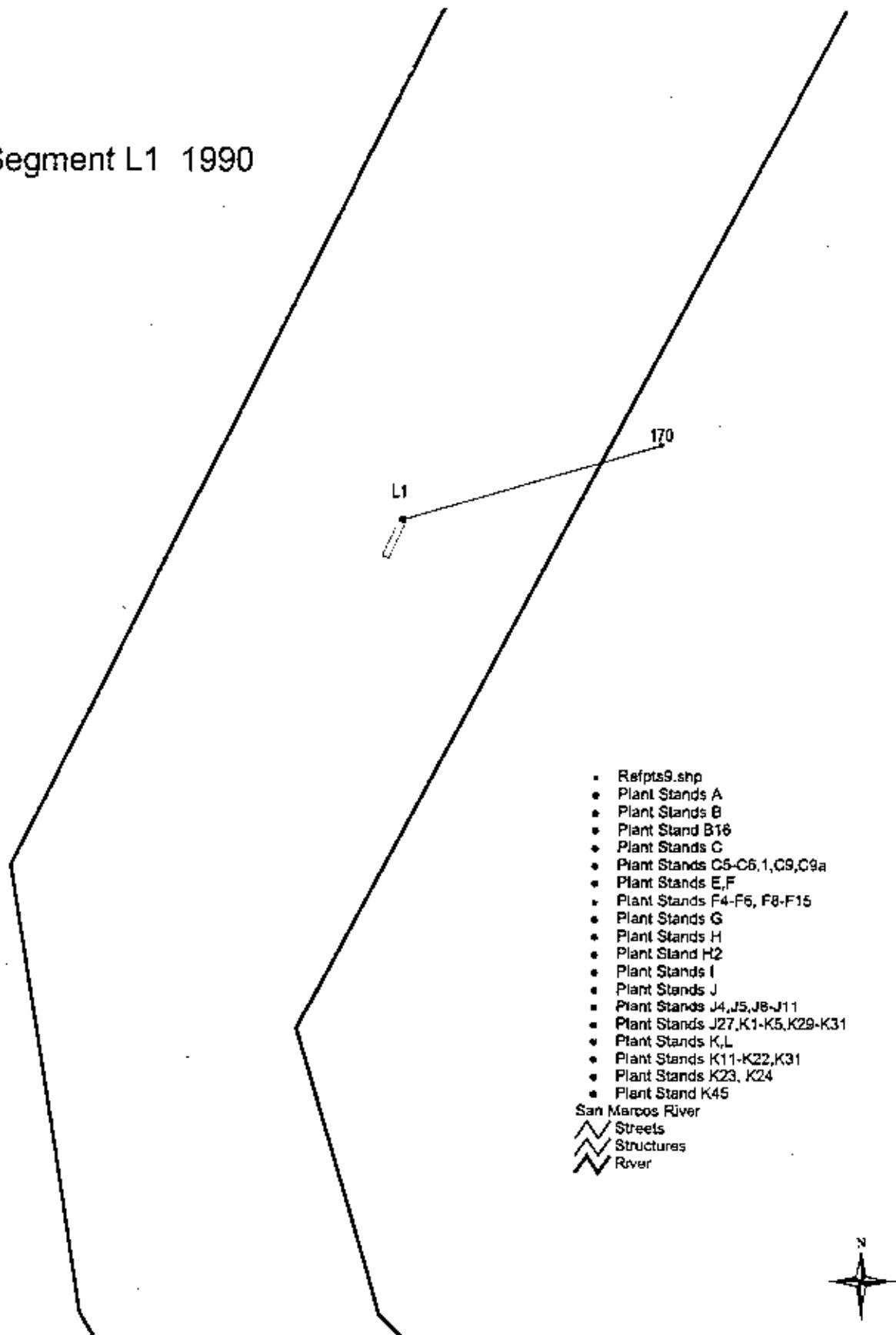
## Segment K38a - K41.4 2001



## Segment L1 1989

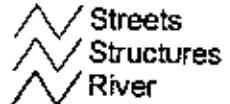


Segment L1 1990



Segment L1 - 1991

L1

- Plant Stands K,L
  - Plant Stands J
  - Plant Stands I
  - Plant Stands G,H
- San Marcos River
- 
- Streets
  - Structures
  - River



5 0 5 10 15 20 Meters

## Segment L1 1992

- Refpts5.shp
- Plant Stands H
- Plant Stands G
- Plant Stands I
- Plant Stands J
- Plant Stands J28, K, L

San Marcos River

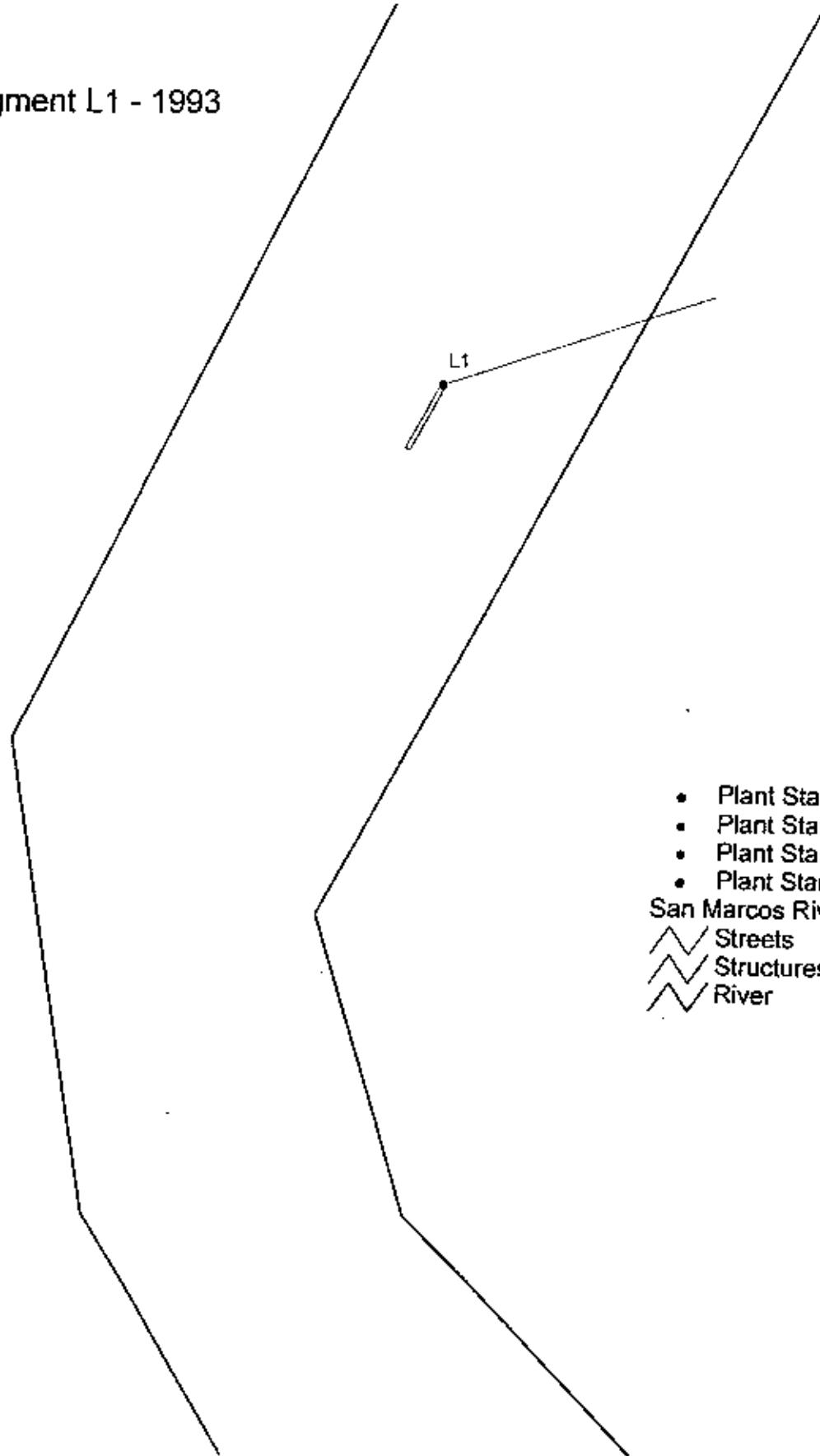
- ~~~ Streets
- ~~~ Structures
- ~~~ River

L1



5 0 5 10 15 Meters

Segment L1 - 1993



- Plant Stands K,L
- Plant Stands J
- Plant Stands I
- Plant Stands - G,H

San Marcos River

Streets

Structures

River



5 0 5 10 15 Meters

Segment K47.2 & L0 - 1994

K47.2

Plant Stands K11,2-K20,K29-K30,K37-K45

- Refpts2.shp
- Plant Stands A
- Plant Stands B
- Plant Stands C
- Plant Stands E,F
- Plant Stands G,H0a
- Plant Stands H2-H2b
- Plant Stands I,J
- Plant Stands J9-J11
- Plant Stands K,L

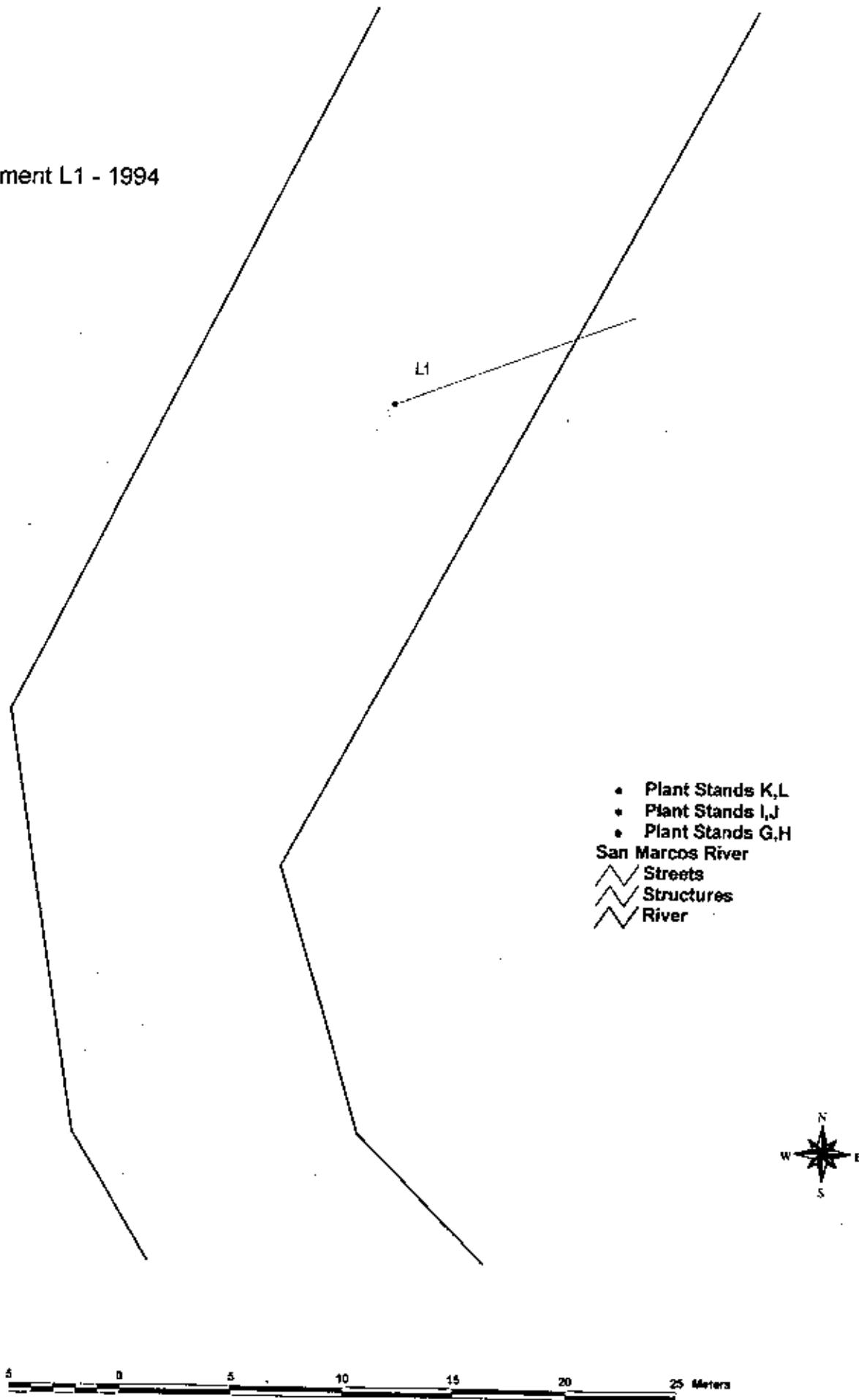
**San Marcos River**

- ~~~~ Streets
- ~~~~ Structures
- ~~~~ River

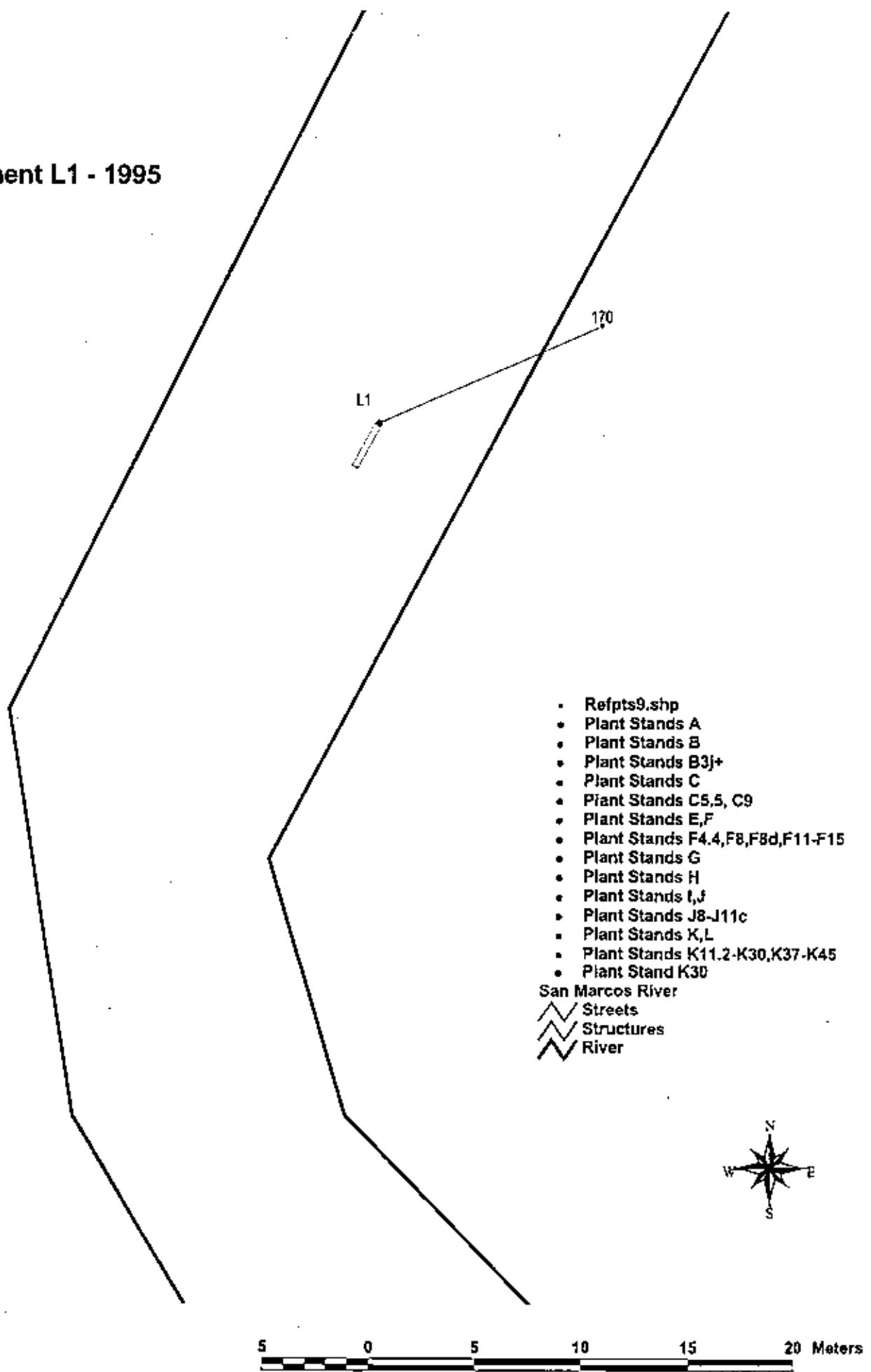


L0

Segment L1 - 1994



## Segment L1 - 1995



Segment K48 & L0, L0.1 1996

K45

K48



- ◆ Plant Stands K14-K20, K29, K37-K45
  - Plant Stand K10.3
  - Reppts5.shp
  - Plant Stands B
  - Plant Stands C
  - Plant Stands G,H
  - Plant Stands E,F
  - Plant Stands I,J
  - Plant Stands J8-M1c,J13,Jt3a,J21
  - Plant Stands K,L
- San Marcos River
- ~~~~ Streets
  - ~~~~ Structures
  - ~~~~ River

5 0 5 10 15 20 Meters

L0.1 L0

Segment L0 - 1997

K45

16B

69

- Refpts9.shp
- \* Plant Stands A
- + Segment B
- Plant Stands B1,1+
- Plant Stands C
- Plant Stands C2a,C5b,C5.5,C7,C9-C9d
- » Plant Stands E,F
- Plant Stands E0, E14
- Plant Stands F3-F5.1,F7,F11-F15
- Plant Stands G,H
- Plant Stands G2-G3
- Plant Stands J
- Plant Stands J1a,J7.2-J11
- Plant Stands K,L
- Plant Stands K18.1-K20, K37-K45

San Marcos River

- ~~ Streets
- ~~~~ Structures
- ~~~~~ River



18 Meters

6

0

6

12

L0

## Segment M1 1989

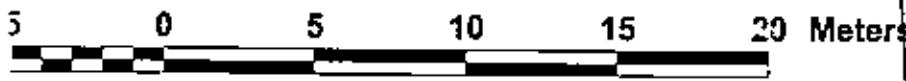
- Plant Stand M1
- Refpts4.shp
- Plant Stands E,F
- Plant Stands G
- Plant Stands H
- Plant Stands I
- Plant Stands J
- Plant Stands J2,J4-J11,J23-J26
- Plant Stands J15-J19
- Plant Stands K,L
- Plant Stands K23-K24,K27,K36,K38-K40,K42-K44
- Plant Stands X
- Rpj1489.shp
- Rp171.shp

San Marcos River

- ~~~ Streets
- ~~~~ Structures
- ~~~~~ River

171

M1



## **APPENDIX 6**

**Texas wild-rice**  
**Aerial Coverage (m<sup>2</sup>) by Stand**

**1989-2001**

| Stand | 2001   | 2000   | 1999    | 1998   | 1997   | 1996   | 1995   | 1994   | 1993 | 1992 | 1991 | 1990 | 1989 |
|-------|--------|--------|---------|--------|--------|--------|--------|--------|------|------|------|------|------|
| A0    | 4.1157 | 2.5043 | 3.0160  | 1.5463 | 1.3500 | 0.4050 | 0.5248 | 0.6670 |      |      |      |      |      |
| A0.1  |        |        |         | 0.8960 | 0.5460 | 0.3375 |        |        |      |      |      |      |      |
| A0.2  | 2.3600 | 1.6244 |         | 1.0050 | 0.7560 |        |        |        |      |      |      |      |      |
| A0.3  | 9.9900 | 9.3665 | 10.2000 | 2.7984 | 0.7438 |        |        |        |      |      |      |      |      |
| A0.3a | 3.6750 | 1.6200 | 0.3600  |        |        |        |        |        |      |      |      |      |      |
| A0.3b |        |        | 1.1655  |        |        |        |        |        |      |      |      |      |      |
| A0.4  |        |        |         |        | 3.0360 |        |        |        |      |      |      |      |      |
| A0.5  |        | 0.6300 | 0.9600  |        |        | 0.3600 |        |        |      |      |      |      |      |
| A0.6  |        | 0.3900 | 0.4500  | 0.7536 | 0.3120 |        |        |        |      |      |      |      |      |
| A0.7  |        |        |         |        | 0.0250 |        |        |        |      |      |      |      |      |
| A0.8  |        |        |         |        | 0.3146 | 0.1050 |        |        |      |      |      |      |      |
| A0.9  |        | 0.3675 | 0.1430  | 0.7392 | 0.6300 |        |        |        |      |      |      |      |      |
| A0.10 |        |        |         | 0.3528 | 0.2720 |        |        |        |      |      |      |      |      |
| A0.11 |        |        |         |        | 0.0660 |        |        |        |      |      |      |      |      |
| A0.12 |        |        |         | 0.1575 | 0.0500 |        |        |        |      |      |      |      |      |
| A0.13 | 3.5456 | 1.5960 | 2.2275  | 0.9360 | 0.3900 |        |        |        |      |      |      |      |      |
| A0.14 | 2.9280 | 1.1840 | 0.6840  | 1.6605 | 0.0324 |        |        |        |      |      |      |      |      |
| A0.15 |        | 0.6480 | 1.4000  | 1.5269 | 1.0640 |        |        |        |      |      |      |      |      |
| A0.16 |        |        | 0.3510  | 1.9550 | 0.4620 |        |        |        |      |      |      |      |      |
| A0.17 |        |        |         |        | 0.5400 |        |        |        |      |      |      |      |      |
| A0.18 |        |        |         |        | 0.3750 |        |        |        |      |      |      |      |      |
| A0.19 |        |        |         |        |        | 1.1700 |        |        |      |      |      |      |      |
| A0.20 | 4.2000 | 3.0940 | 2.3250  | 2.4564 | 0.7280 |        |        |        |      |      |      |      |      |
| A0.21 |        |        |         | 2.2171 | 0.2640 |        |        |        |      |      |      |      |      |
| A0.22 | 1.7340 | 0.2925 | 0.8160  | 1.2025 |        |        |        |        |      |      |      |      |      |
| A0.23 |        |        |         | 0.4400 |        |        |        |        |      |      |      |      |      |
| A0.24 | 1.7850 | 0.8320 | 1.3098  | 0.5393 |        |        |        |        |      |      |      |      |      |
| A0.25 | 1.4820 | 1.5120 | 2.0475  | 1.9372 |        |        |        |        |      |      |      |      |      |
| A0.26 |        |        |         | 0.1260 |        |        |        |        |      |      |      |      |      |
| A0.27 | 7.1663 | 2.8380 | 2.5920  |        |        |        |        |        |      |      |      |      |      |
| A0.28 | 0.2040 | 0.6450 | 0.3920  |        |        |        |        |        |      |      |      |      |      |
| A0.29 | 1.6965 | 1.7340 | 0.9975  |        |        |        |        |        |      |      |      |      |      |
| A0.30 | 5.8200 | 1.6894 | 0.1800  |        |        |        |        |        |      |      |      |      |      |
| A0.31 | 1.6625 | 1.5469 | 0.7350  |        |        |        |        |        |      |      |      |      |      |
| A0.32 | 0.8625 | 0.4500 | 0.9360  |        |        |        |        |        |      |      |      |      |      |
| A0.33 | 2.7468 | 2.5025 |         |        |        |        |        |        |      |      |      |      |      |
| A0.34 | 0.5775 | 0.7280 |         |        |        |        |        |        |      |      |      |      |      |
| A0.35 | 0.7150 |        |         |        |        |        |        |        |      |      |      |      |      |
| A0.6  | 0.4250 |        |         |        |        |        |        |        |      |      |      |      |      |

**Texas wild-rice**  
**Aerial Coverage (m<sup>2</sup>) by Stand**  
**1989-2001**

| Stand | 2001    | 2000    | 1999     | 1998     | 1997    | 1996    | 1995    | 1994    | 1993    | 1992    | 1991    | 1990    | 1989    |
|-------|---------|---------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| A0.9  | 1.0920  |         |          |          |         |         |         |         |         |         |         |         |         |
| A1    | 28.8640 | 28.6770 | 33.5400  | 20.5296  | 24.1920 | 24.8400 | 20.3134 | 22.7630 | 18.7200 | 19.4765 | 18.9750 | 19.7600 | 7.8000  |
| A1a   | 1.0200  |         |          |          |         |         |         |         |         |         |         |         |         |
| A2    | 0.1680  | 1.2880  | 1.4040   | 3.0150   | 1.1500  | 1.5725  | 0.1997  | 0.2375  | 6.6375  | 3.6960  | 34.1040 | 32.6340 | 6.6200  |
| A2a   |         |         |          |          |         |         | 0.0874  |         |         |         |         |         |         |
| A2b   | 0.1170  |         |          |          |         |         |         |         |         |         |         |         |         |
| A3    |         | 0.3038  | 0.9983   | 5.0875   | 6.0720  | 3.4542  | 9.8679  | 8.7560  | 12.3900 | 9.1200  | 22.2300 | 18.2400 | 8.6800  |
| A3a   |         |         |          | 0.2550   | 1.8480  | 0.9800  | 0.7981  | 0.9450  |         |         |         |         |         |
| A3b   |         |         |          |          |         |         | 2.1750  | 1.0575  |         |         |         |         |         |
| A3.1  |         |         |          |          |         |         | 1.1214  |         |         |         |         |         |         |
| A3.2  |         |         |          |          |         | 0.0400  |         |         |         |         |         |         |         |
| A4    |         |         |          |          |         |         |         |         |         | 0.2873  |         | 8.0850  | 6.9920  |
| A5    |         |         |          |          |         |         |         |         |         | 0.6300  | 1.9380  |         |         |
| A5.1  | 6.0125  | 4.0320  | 2.7280   | 2.4325   | 1.7600  |         |         |         |         |         |         |         |         |
| A5.2  | 3.2240  | 2.3485  | 1.0200   |          |         |         |         |         |         |         |         |         |         |
| A5.3  | 0.5525  | 0.1925  | 0.0900   |          |         |         |         |         |         |         |         |         |         |
| A6    |         |         |          |          |         |         | 0.8415  |         |         |         |         |         |         |
| A7    | 5.3550  | 1.4175  | 3.7050   | 2.6726   | 0.6930  | 0.0750  |         |         |         |         |         |         |         |
| A7.1  | 0.3100  | 0.3630  | 0.0320   |          |         |         |         |         |         |         |         |         |         |
| B1    |         | 9.7350  |          | 9.6300   |         |         |         |         |         |         |         |         |         |
| B1a   | 11.7450 | 6.9290  | 306.4956 | 5.0575   | 6.7925  | 3.3000  | 5.6925  | 0.7600  | 13.1625 | 22.8800 | 26.3520 | 29.6925 | 17.0000 |
| B1b   |         |         |          | 1.5000   |         |         |         | 4.3538  | 1.2600  |         |         |         |         |
| B1c   |         | 3.0400  | 0.4840   | 0.3136   | 0.8640  | 3.0160  | 1.9829  | 3.8220  |         |         |         |         |         |
| B1d   |         |         |          |          |         | 3.7800  | 3.1150  | 1.2880  |         |         |         |         |         |
| B1e   |         |         |          |          |         |         |         | 0.2470  |         |         |         |         |         |
| B1f   | 0.4680  |         | 6.4000   |          | 0.3900  | 0.7105  | 1.7920  | 0.7963  |         |         |         |         |         |
| B1fa  |         |         |          |          | 1.2950  | 2.2152  |         |         |         |         |         |         |         |
| B1b   | 1.5750  |         |          |          | 3.0240  |         |         |         |         |         |         |         |         |
| B1c   | 0.4253  |         |          |          |         |         |         |         |         |         |         |         |         |
| B1g   |         |         |          |          |         |         | 0.0600  |         |         |         |         |         |         |
| B1h   |         |         | 9.9840   |          | 2.9640  | 3.3040  | 1.1914  |         |         |         |         |         |         |
| B1i   |         |         |          |          |         |         | 1.1993  |         |         |         |         |         |         |
| B1j   |         |         |          |          |         |         | 0.1044  |         |         |         |         |         |         |
| B1.1  | 4.7723  |         | 333.9372 |          | 0.7088  |         |         |         |         |         |         |         |         |
| B2    | 60.7766 | 52.3900 | 43.0760  | 366.8940 | 75.9900 | 86.9400 | 75.8940 | 63.0630 | 35.1488 | 28.6840 | 32.2913 | 27.9000 | 15.0200 |
| B2a   |         |         |          | 0.6240   | 1.4850  | 1.5480  | 0.1995  |         |         |         |         |         |         |
| B2b   |         |         |          |          |         | 2.6082  | 1.5480  |         |         |         |         |         |         |
| B2c   |         | 7.0400  | 1.4025   |          |         |         |         |         |         |         |         |         |         |

**Texas wild-rice**  
**Aerial Coverage (m<sup>2</sup>) by Stand**  
**1989-2001**

| Stand | 2001   | 2000 | 1999     | 1998 | 1997 | 1996    | 1995    | 1994    | 1993    | 1992    | 1991   | 1990    | 1989   |
|-------|--------|------|----------|------|------|---------|---------|---------|---------|---------|--------|---------|--------|
| B2d   |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B2e   |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B2f   |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B2f1  |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B2f2  |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B2g   |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B2h   |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B2k   |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B2.1  |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B2.1a |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B2.2  |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B2.3  |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3    |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3a   |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3b   |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3ba  |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3c   |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3d   |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3e   |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3f   |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3g   |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3h   |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3i   |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3j   |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3.1  |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3.1a |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3.1b |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3.1c |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3.1d |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3.2  |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3.3  |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3.4  |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3.4a |        |      |          |      |      |         |         |         |         |         |        |         |        |
| B3.5  | 4.0500 |      | 177.1039 |      |      | 1.4400  | 2.7460  | 0.9945  | 0.8280  |         |        |         |        |
| B3.6  |        |      |          |      |      | 1.3650  |         | 1.1880  | 0.5200  |         |        |         |        |
| B4    | 0.3600 |      |          |      |      | 28.0395 | 28.5923 | 56.9700 | 31.8500 | 15.0480 | 1.2960 | 16.6320 | 6.4600 |
| B4a   |        |      |          |      |      |         |         |         | 0.5432  |         |        |         |        |
| B4b   |        |      | 42.9780  |      |      | 2.6400  |         |         |         |         |        |         |        |

**Texas wild-rice**  
**Aerial Coverage (m<sup>2</sup>) by Stand**

1989-2001

| Stand | 2001 | 2000 | 1999     | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 | 1991 | 1990 | 1989 |
|-------|------|------|----------|------|------|------|------|------|------|------|------|------|------|
| B4c   |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B4d   |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B4e   |      |      | 1.1400   |      |      |      |      |      |      |      |      |      |      |
| B4f   |      |      | 1.8600   |      |      |      |      |      |      |      |      |      |      |
| B5    |      |      | 0.1680   |      |      |      |      |      |      |      |      |      |      |
| B5a   |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B5c3  |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B5g2  |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B5g3  |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B5g4  |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B5g5  |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B5i   |      |      | 224.8440 |      |      |      |      |      |      |      |      |      |      |
| B6    |      |      | 9.3960   |      |      |      |      |      |      |      |      |      |      |
| B6a   |      |      | 393.7500 |      |      |      |      |      |      |      |      |      |      |
| B6a1  |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B7    |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B7a   |      |      | 50.1120  |      |      |      |      |      |      |      |      |      |      |
| B7c1  |      |      | 0.1960   |      |      |      |      |      |      |      |      |      |      |
| B7c2  |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B7c3  |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B7e   |      |      | 166.3200 |      |      |      |      |      |      |      |      |      |      |
| B7g   |      |      | 219.0000 |      |      |      |      |      |      |      |      |      |      |
| B7h   |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B7i   |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B7.1  |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B8    |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B8a   |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B9    |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B10   |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B10a  |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B10b  |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B10c  |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B10d  |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B10e  |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B10.1 |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B10.2 |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B10.3 |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B10.4 |      |      |          |      |      |      |      |      |      |      |      |      |      |
| B10.5 |      |      |          |      |      |      |      |      |      |      |      |      |      |

TEXAS WILDFIRE  
Aerial Coverage (m<sup>2</sup>) by Stand  
1989-2001

| Stand  | 2001    | 2000 | 1999    | 1998   | 1997    | 1996    | 1995    | 1994    | 1993    | 1992    | 1991    | 1990    | 1989   |
|--------|---------|------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| B10.6  |         |      |         |        |         | 12.1680 | 8.4000  | 4.4363  | 3.3677  |         |         |         |        |
| B10.7  |         |      |         |        |         |         | 0.8880  |         |         |         |         |         |        |
| B10.8  |         |      |         |        | 3.9600  | 0.9988  |         |         |         |         |         |         |        |
| B10.9  |         |      |         |        | 0.2691  | 2.2454  |         |         |         |         |         |         |        |
| B11    |         |      |         |        | 11.8335 | 23.4000 | 25.0560 | 14.0420 | 10.3785 | 7.7620  | 12.1380 | 3.7050  | 2.5500 |
| B11a   | 12.0313 |      |         |        | 2.3625  |         |         |         |         |         |         |         |        |
| B11e1  |         |      |         |        |         | 7.2800  |         |         |         |         |         |         |        |
| B11e2  |         |      |         |        |         | 0.8864  |         |         |         |         |         |         |        |
| B11e3  |         |      |         |        |         | 0.9815  |         |         |         |         |         |         |        |
| B11e4  |         |      |         | 0.3740 |         |         |         |         |         |         |         |         |        |
| B11e5  |         |      |         | 0.2700 |         |         |         |         |         |         |         |         |        |
| B11f   |         |      |         | 6.3450 |         | 5.2250  |         |         |         |         |         |         |        |
| B11g   |         |      |         | 0.6469 |         |         |         |         |         |         |         |         |        |
| B11g1  |         |      |         | 1.2320 |         |         |         |         |         |         |         |         |        |
| B11h   |         |      |         |        |         | 1.9206  |         |         |         |         |         |         |        |
| B11j2  |         |      |         | 0.0700 |         | 11.0250 |         |         |         |         |         |         |        |
| B11o   |         |      |         | 6.5000 |         | 4.2875  |         |         |         |         |         |         |        |
| B11o1  |         |      |         |        |         | 14.1213 |         |         |         |         |         |         |        |
| B11o2  |         |      |         | 2.1200 |         | 3.7260  |         |         |         |         |         |         |        |
| B11s   |         |      |         | 0.6600 |         |         |         |         |         |         |         |         |        |
| B11t   |         |      |         | 1.4280 |         |         |         |         |         |         |         |         |        |
| B11u   |         |      |         | 0.4800 |         |         |         |         |         |         |         |         |        |
| B11v   |         |      |         | 0.9375 |         |         |         |         |         |         |         |         |        |
| B11w   |         |      |         | 4.8813 |         |         |         |         |         |         |         |         |        |
| B11.1  |         |      |         |        | 0.0980  |         |         |         | 23.5620 | 11.5500 | 14.7490 | 17.6120 | 9.4770 |
| B11.2  |         |      |         |        |         |         | 3.5000  | 0.7800  |         |         | 1.9040  |         |        |
| B11.3  |         |      |         |        |         | 2.0999  |         |         | 1.1900  | 0.8400  |         |         |        |
| B11.4  |         |      |         |        |         |         |         |         |         | 1.6800  |         |         |        |
| B11.5  | 0.0750  |      | 11.8680 |        |         | 0.8460  | 8.8400  | 2.5200  |         |         |         |         |        |
| B11.5a | 1.1970  |      |         |        |         | 0.9680  | 1.9697  | 1.1025  | 1.2960  |         |         |         |        |
| B11.6  |         |      |         |        |         | 5.5440  | 10.3368 | 0.8400  | 5.1450  |         |         |         |        |
| B11.7  |         |      |         |        |         | 5.7528  |         | 1.4365  | 3.3250  |         |         |         |        |
| B11.8  | 8.5000  |      | 6.9863  |        |         | 6.0552  | 5.7105  | 1.7745  | 0.8250  |         |         |         |        |
| B11.8a |         |      |         |        |         |         |         | 2.1525  |         |         |         |         |        |
| B11.9  | 1.4490  |      |         |        |         |         |         |         |         |         |         |         |        |
| B11.10 | 1.1000  |      |         | 0.2560 |         |         |         |         |         | 0.4125  |         |         |        |
| B11.11 |         |      |         |        |         |         |         |         |         | 1.1700  |         |         |        |
| B11.12 |         |      |         |        |         |         |         |         |         | 0.6160  |         |         |        |
| B11.13 |         |      |         |        |         |         |         |         |         | 2.1600  |         |         |        |
|        |         |      |         |        |         |         |         |         |         |         |         |         |        |

**Texas wild-rice**  
**Aerial Coverage (m<sup>2</sup>) by Stand**  
**1989-2001**

| Stand    | 2001   | 2000    | 1999    | 1998   | 1897    | 1996   | 1995    | 1994   | 1993   | 1992 | 1991 | 1990 | 1989   |
|----------|--------|---------|---------|--------|---------|--------|---------|--------|--------|------|------|------|--------|
| B11.14   |        |         |         |        |         |        |         | 1.7136 | 0.4680 |      |      |      |        |
| B11.15   |        |         |         |        |         | 1.9435 | 0.4375  | 0.9600 |        |      |      |      |        |
| B11.16   |        |         |         |        |         |        |         | 2.1840 |        |      |      |      |        |
| B11.17   |        |         |         |        |         | 3.7895 | 2.1893  | 1.9784 |        |      |      |      |        |
| B11.18   | 1.2400 |         |         |        |         |        |         | 1.3770 |        |      |      |      |        |
| B11.19   |        |         |         |        |         | 0.8840 | 25.8710 | 3.4720 |        |      |      |      |        |
| B11.19a  |        |         |         |        |         | 7.1050 |         |        |        |      |      |      |        |
| B11.19aa |        |         | 0.4550  |        |         |        |         |        |        |      |      |      |        |
| B11.19ab |        |         | 0.3060  |        |         |        |         |        |        |      |      |      |        |
| B11.19b  |        |         |         |        |         | 0.2850 |         |        |        |      |      |      |        |
| B11.19c  |        |         |         |        |         | 0.2160 |         |        |        |      |      |      |        |
| B11.19d  |        |         | 83.8883 |        |         |        |         |        |        |      |      |      |        |
| B11.20   |        |         |         |        |         |        |         | 0.8800 |        |      |      |      |        |
| B11.21   |        |         |         |        |         |        | 0.3200  |        |        |      |      |      |        |
| B11.22   |        |         |         |        |         |        | 0.1500  |        |        |      |      |      |        |
| B11.23   |        |         |         |        |         |        | 0.2160  |        |        |      |      |      |        |
| B11.24   |        |         |         |        |         | 3.3600 | 3.3480  |        |        |      |      |      |        |
| B11.25   |        |         |         |        |         |        | 0.1625  |        |        |      |      |      |        |
| B11.26   |        |         | 62.8719 |        |         | 7.3928 | 4.1184  |        |        |      |      |      |        |
| B11.27   |        |         |         |        |         |        | 2.1123  |        |        |      |      |      |        |
| B11.28   |        |         | 53.1969 |        |         | 3.2480 | 0.8925  |        |        |      |      |      |        |
| B11.29   | 0.4400 |         | 63.9636 |        |         | 0.2880 |         |        |        |      |      |      |        |
| B12      |        |         |         | 5.5965 |         |        |         |        |        |      |      |      | 2.2000 |
| B12e     |        | 1.1440  |         |        |         |        |         |        |        |      |      |      |        |
| B12f     |        | 1.8150  |         |        |         |        |         |        |        |      |      |      |        |
| B13      |        | 2.2260  |         | 7.0305 |         |        |         |        |        |      |      |      |        |
| B13a     |        | 7.2153  |         | 7.5735 |         |        |         |        |        |      |      |      |        |
| B13a1    |        |         |         | 1.8000 |         |        |         |        |        |      |      |      |        |
| B13a2    |        | 2.3400  |         |        |         |        |         |        |        |      |      |      |        |
| B13a4    |        | 1.2350  |         |        |         |        |         |        |        |      |      |      |        |
| B13b     |        |         |         | 2.1281 |         |        |         |        |        |      |      |      |        |
| B13b1    |        | 10.6250 |         | 1.3706 |         |        |         |        |        |      |      |      |        |
| B13b3    |        | 0.8450  |         |        |         |        |         |        |        |      |      |      |        |
| B13b4    |        | 2.0156  |         |        |         |        |         |        |        |      |      |      |        |
| B13b8    |        | 3.6769  |         |        |         |        |         |        |        |      |      |      |        |
| B13c     |        | 0.6650  |         | 1.2623 |         |        |         |        |        |      |      |      |        |
| B13c1    |        |         |         |        | 2.9575  |        |         |        |        |      |      |      |        |
| B13d     |        | 1.0010  |         |        | 29.9150 |        |         |        |        |      |      |      |        |
| B13e     |        | 0.1560  |         |        |         |        |         |        |        |      |      |      |        |

Texas wild-rice  
Aerial Coverage (m<sup>2</sup>) by Stand  
1989-2001

| Stand | 2001    | 2000    | 1999    | 1998    | 1997   | 1996   | 1995   | 1994   | 1993   | 1992   | 1991   | 1990   | 1989   |
|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| B13f  |         | 8.9100  |         |         |        |        |        |        |        |        |        |        |        |
| B14   |         | 2.0720  | 42.9969 | 2.1373  | 5.7330 | 3.5344 | 2.4360 | 1.4850 |        |        |        | 2.5300 | 0.7000 |
| B14a  |         | 2.1563  |         | 1.8948  |        |        |        |        |        |        |        |        |        |
| B14a1 |         | 0.5390  |         |         |        |        |        |        |        |        |        |        |        |
| B14b  |         | 0.6531  |         | 2.4200  |        |        |        |        |        |        |        |        |        |
| B14b1 |         |         |         | 8.8124  |        |        |        |        |        |        |        |        |        |
| B14b2 |         | 3.9600  |         |         |        |        |        |        |        |        |        |        |        |
| B14b3 |         | 4.5581  |         | 3.8400  |        |        |        |        |        |        |        |        |        |
| B14b4 |         | 0.9563  |         |         |        |        |        |        |        |        |        |        |        |
| B14c1 |         | 0.5280  |         | 1.9227  |        |        |        |        |        |        |        |        |        |
| B14c4 |         |         |         | 0.5063  |        |        |        |        |        |        |        |        |        |
| B14c5 |         |         |         | 0.6637  |        |        |        |        |        |        |        |        |        |
| B14c6 |         | 0.6120  |         |         |        |        |        |        |        |        |        |        |        |
| B14c7 |         | 2.8275  |         |         |        |        |        |        |        |        |        |        |        |
| B14d  |         | 14.1960 |         | 12.6280 |        |        |        |        |        |        |        |        |        |
| B14d1 |         | 1.1756  |         | 2.8396  |        |        |        |        |        |        |        |        |        |
| B14d3 |         | 0.4050  |         |         |        |        |        |        |        |        |        |        |        |
| B14d4 |         | 0.7980  |         |         |        |        |        |        |        |        |        |        |        |
| B14g  |         |         |         | 3.1688  |        |        |        |        |        |        |        |        |        |
| B14h  |         | 5.5803  |         | 8.2732  |        |        |        |        |        |        |        |        |        |
| B14i  |         | 12.0120 |         | 1.1771  |        |        |        |        |        |        |        |        |        |
| B14i1 |         |         |         | 1.2220  |        |        |        |        |        |        |        |        |        |
| B14i2 |         | 2.5594  |         |         |        |        |        |        |        |        |        |        |        |
| B14i3 |         | 2.5480  |         |         |        |        |        |        |        |        |        |        |        |
| B14j  |         | 2.6093  |         |         |        |        |        |        |        |        |        |        |        |
| B14l  |         |         | 0.2993  |         |        |        |        |        |        |        |        |        |        |
| B15   |         | 1.2665  | 28.0000 | 1.1676  | 5.1072 | 4.3200 | 3.1005 | 1.4850 | 1.2375 | 1.6720 | 3.5640 | 2.4640 | 0.7500 |
| B15a  | 34.2300 |         | 34.2300 |         |        |        |        |        |        |        |        |        |        |
| B15a1 |         |         |         | 0.4200  |        |        |        |        |        |        |        |        |        |
| B15a2 |         |         |         | 0.5207  |        |        |        |        |        |        |        |        |        |
| B15a3 |         |         |         | 0.9763  |        |        |        |        |        |        |        |        |        |
| B15a4 |         | 2.6520  |         | 1.4715  |        |        |        |        |        |        |        |        |        |
| B15a5 |         | 1.5015  |         |         |        |        |        |        |        |        |        |        |        |
| B15b  |         | 45.0000 |         |         |        |        |        |        |        |        |        |        |        |
| B15c  |         | 4.7268  |         | 3.2120  |        |        |        |        |        |        |        |        |        |
| B15c1 |         | 3.3280  |         |         |        |        |        |        |        |        |        |        |        |
| B15d  |         | 6.8355  |         | 5.9640  |        |        |        |        |        |        |        |        |        |
| B15d2 |         | 0.9360  |         |         |        |        |        |        |        |        |        |        |        |
| B15d3 |         | 1.1840  |         |         |        |        |        |        |        |        |        |        |        |

**Texas wild-rice**  
**Aerial Coverage (m<sup>2</sup>) by Stand**  
**1989-2001**

| Stand   | 2001     | 2000    | 1999    | 1998   | 1997    | 1996   | 1995   | 1994   | 1993   | 1992   | 1991   | 1990 | 1989 |
|---------|----------|---------|---------|--------|---------|--------|--------|--------|--------|--------|--------|------|------|
| B15i    |          | 0.3840  |         | 6.6989 |         |        |        |        |        |        |        |      |      |
| B15i    |          | 2.8875  |         | 3.0720 |         |        |        |        |        |        |        |      |      |
| B15j1   |          | 1.1655  |         | 1.1070 |         |        |        |        |        |        |        |      |      |
| B15j2   |          | 0.9818  |         |        |         |        |        |        |        |        |        |      |      |
| B15j    |          | 13.7550 |         | 4.3875 |         |        |        |        |        |        |        |      |      |
| B15j2   |          | 3.2468  |         |        |         |        |        |        |        |        |        |      |      |
| B15j3   |          | 2.4205  |         |        |         |        |        |        |        |        |        |      |      |
| B15j4   |          | 4.2529  |         |        |         |        |        |        |        |        |        |      |      |
| B15j6   |          | 2.3392  |         |        |         |        |        |        |        |        |        |      |      |
| B15j6   |          | 0.9660  |         |        |         |        |        |        |        |        |        |      |      |
| B15j7   |          | 1.1603  |         |        |         |        |        |        |        |        |        |      |      |
| B15j8   |          | 2.7125  |         |        |         |        |        |        |        |        |        |      |      |
| B15k    |          | 14.8160 |         | 4.8160 |         |        |        |        |        |        |        |      |      |
| B15l    |          | 1.4520  |         |        |         |        |        |        |        |        |        |      |      |
| B15.1   | 129.2700 |         | 59.5303 |        | 8.2350  | 8.3868 | 4.7600 | 3.4720 | 2.1000 | 2.3040 | 4.5900 |      |      |
| B15.2   |          |         | 3.5728  |        | 2.7300  | 3.9375 | 3.1388 | 4.0950 | 2.9120 | 2.7200 |        |      |      |
| B15.3   | 2.7000   |         | 46.7436 |        | 0.0760  | 1.7550 | 1.2025 | 0.7040 | 0.6840 | 3.3894 |        |      |      |
| B15.4   | 22.7850  |         | 1.9200  |        | 6.3920  | 3.1330 | 3.2258 | 2.2000 | 1.9855 |        |        |      |      |
| B15.4a  |          |         | 1.0640  |        | 0.8640  | 0.1690 |        |        |        |        |        |      |      |
| B15.4aa |          |         | 0.7700  |        |         |        |        |        |        |        |        |      |      |
| B15.4b  |          |         | 3.0450  |        |         |        |        |        |        |        |        |      |      |
| B15.5   |          |         |         |        |         |        |        |        |        | 1.2350 |        |      |      |
| B15.6   |          |         |         |        |         |        |        |        |        | 0.3087 |        |      |      |
| B15.7   | 8.1863   |         | 3.1960  |        | 2.3588  | 2.3520 | 0.9720 | 0.4500 | 0.7315 |        |        |      |      |
| B15.7a  | 0.5280   |         |         |        |         |        |        |        |        |        |        |      |      |
| B15.7b  | 0.8798   |         |         |        |         |        |        |        |        |        |        |      |      |
| B15.8   | 1.9890   |         |         |        |         | 0.0540 | 2.0416 |        | 2.7418 |        |        |      |      |
| B15.8a  | 0.9360   |         |         |        |         |        |        |        |        |        |        |      |      |
| B15.9   |          |         |         |        |         |        |        | 1.7680 | 1.3760 |        |        |      |      |
| B15.10  | 10.9200  |         | 8.9775  |        | 3.8760  | 3.7260 | 4.5920 | 1.5210 | 2.2000 |        |        |      |      |
| B15.10a |          |         | 1.7860  |        |         |        |        |        |        |        |        |      |      |
| B15.10b | 3.2400   |         |         |        |         |        |        |        |        |        |        |      |      |
| B15.10c | 1.9435   |         |         |        |         |        |        |        |        |        |        |      |      |
| B15.11  |          |         | 75.5883 |        | 0.6600  |        | 2.4440 | 0.1600 |        |        |        |      |      |
| B15.12  | 2.0020   |         |         |        |         | 2.0020 | 1.8900 | 0.4500 |        |        |        |      |      |
| B15.13  |          |         |         |        |         |        |        | 7.5600 | 1.1440 |        |        |      |      |
| B15.14  |          |         |         |        | 2.9925  | 3.8233 | 1.1879 | 0.0570 |        |        |        |      |      |
| B15.15  |          |         | 1.8920  |        | 12.0736 | 2.1450 | 1.8400 | 0.2236 |        |        |        |      |      |
| B15.16  | 3.2110   |         | 0.9880  |        | 5.0760  | 1.3500 | 1.0780 | 0.3465 |        |        |        |      |      |

**Texas wild-rice**  
**Aerial Coverage (m<sup>2</sup>) by Stand**

**1989-2001**

| Stand   | 2001    | 2000 | 1999     | 1998 | 1997   | 1996   | 1995   | 1994   | 1993   | 1992 | 1991 | 1990 | 1989 |
|---------|---------|------|----------|------|--------|--------|--------|--------|--------|------|------|------|------|
| B15.17  |         |      |          |      |        |        |        |        |        |      |      |      |      |
| B15.18  | 6.0840  |      | 12.2745  |      | 8.5725 | 8.6694 | 7.8975 | 0.8925 |        |      |      |      |      |
| B15.18a |         |      | 3.5840   |      |        |        |        | 0.6720 |        |      |      |      |      |
| B15.19  |         |      |          |      |        |        |        | 0.4590 |        |      |      |      |      |
| B15.20  | 7.2000  |      | 84.5356  |      | 2.7300 | 2.4570 | 1.3125 | 1.1760 |        |      |      |      |      |
| B15.21  | 2.9828  |      | 92.4272  |      | 5.1600 | 3.1763 | 2.3275 | 1.2600 |        |      |      |      |      |
| B15.22  |         |      |          |      |        |        |        | 2.4360 | 0.4950 |      |      |      |      |
| B15.23  | 5.2140  |      | 93.8644  |      | 4.1615 | 2.6813 | 2.6400 | 1.1813 |        |      |      |      |      |
| B15.24  |         |      |          |      |        |        |        | 0.8550 |        |      |      |      |      |
| B15.25  | 2.6100  |      | 184.6644 |      | 1.3073 | 0.4560 | 2.8800 |        |        |      |      |      |      |
| B15.26  |         |      |          |      |        |        |        | 0.3900 |        |      |      |      |      |
| B15.27  |         |      |          |      |        |        | 0.0658 | 1.0560 |        |      |      |      |      |
| B15.28  |         |      |          |      |        |        | 0.1845 |        |        |      |      |      |      |
| B15.29  |         |      | 1.1305   |      | 1.3908 | 1.2825 |        |        |        |      |      |      |      |
| B15.30  | 2.8875  |      | 1.0080   |      | 2.0350 | 0.7905 |        |        |        |      |      |      |      |
| B15.31  |         |      |          |      | 0.3465 | 2.4225 |        |        |        |      |      |      |      |
| B15.32  | 16.7280 |      | 9.7704   |      | 4.8450 | 2.3000 |        |        |        |      |      |      |      |
| B15.33  | 5.2800  |      | 6.0270   |      | 3.9780 | 1.1025 |        |        |        |      |      |      |      |
| B15.34  | 7.9625  |      | 4.0320   |      | 1.8720 | 0.1625 |        |        |        |      |      |      |      |
| B15.35  |         |      | 0.9450   |      | 2.8980 |        |        |        |        |      |      |      |      |
| B15.36  |         |      |          |      | 2.4990 |        |        |        |        |      |      |      |      |
| B15.37  |         |      |          |      | 0.2604 |        |        |        |        |      |      |      |      |
| B15.38  | 14.8830 |      | 66.5978  |      | 0.9855 |        |        |        |        |      |      |      |      |
| B15.39  | 1.0400  |      | 197.0000 |      | 1.6800 |        |        |        |        |      |      |      |      |
| B15.41  | 3.3703  |      | 169.9633 |      |        |        |        |        |        |      |      |      |      |
| B15.43  | 1.4040  |      | 180.2894 |      |        |        |        |        |        |      |      |      |      |
| B15.46  | 3.2800  |      | 28.1272  |      |        |        |        |        |        |      |      |      |      |
| B15.47  |         |      | 2.5188   |      |        |        |        |        |        |      |      |      |      |
| B15.48  |         |      | 0.7800   |      |        |        |        |        |        |      |      |      |      |
| B15.49  | 1.3748  |      | 1.6064   |      |        |        |        |        |        |      |      |      |      |
| B15.50  |         |      | 0.9223   |      |        |        |        |        |        |      |      |      |      |
| B15.51  | 3.5840  |      | 1.9740   |      |        |        |        |        |        |      |      |      |      |
| B15.52  | 3.9600  |      | 2.4585   |      |        |        |        |        |        |      |      |      |      |
| B15.53  | 3.2500  |      | 0.9923   |      |        |        |        |        |        |      |      |      |      |
| B15.54  | 4.5000  |      | 3.5208   |      |        |        |        |        |        |      |      |      |      |
| B15.55  |         |      | 73.0000  |      |        |        |        |        |        |      |      |      |      |
| B15.56  |         |      | 67.0000  |      |        |        |        |        |        |      |      |      |      |
| B15.57  |         |      | 73.0000  |      |        |        |        |        |        |      |      |      |      |
| B15.58  | 6.3825  |      | 75.0000  |      |        |        |        |        |        |      |      |      |      |

Texas wild-rice  
Aerial Coverage ( $m^2$ ) by Stand  
1989-2001

| Stand  | 2001    | 2000   | 1999     | 1998   | 1997 | 1996 | 1995 | 1994 | 1993 | 1992   | 1991   | 1990   | 1989 |
|--------|---------|--------|----------|--------|------|------|------|------|------|--------|--------|--------|------|
| B15.59 | 5.3300  |        | 2.0283   |        |      |      |      |      |      |        |        |        |      |
| B15.60 | 2.9400  |        | 2.3153   |        |      |      |      |      |      |        |        |        |      |
| B15.61 |         |        | 170.0000 |        |      |      |      |      |      |        |        |        |      |
| B15.62 |         |        | 0.5390   |        |      |      |      |      |      |        |        |        |      |
| B15.63 | 1.9800  |        | 1.0800   |        |      |      |      |      |      |        |        |        |      |
| B15.64 | 0.8470  |        | 0.2660   |        |      |      |      |      |      |        |        |        |      |
| B15.65 |         |        | 0.3240   |        |      |      |      |      |      |        |        |        |      |
| B15.66 |         |        | 1.4250   |        |      |      |      |      |      |        |        |        |      |
| B15.68 | 1.5680  |        |          |        |      |      |      |      |      |        |        |        |      |
| B15.70 | 2.4375  |        |          |        |      |      |      |      |      |        |        |        |      |
| B15.71 | 0.6930  |        |          |        |      |      |      |      |      |        |        |        |      |
| B15.72 | 0.4826  |        |          |        |      |      |      |      |      |        |        |        |      |
| B15.73 | 5.7960  |        |          |        |      |      |      |      |      |        |        |        |      |
| B15.76 | 1.9250  |        |          |        |      |      |      |      |      |        |        |        |      |
| B15.77 | 2.0963  |        |          |        |      |      |      |      |      |        |        |        |      |
| B15.78 | 89.2500 |        |          |        |      |      |      |      |      |        |        |        |      |
| B15.79 | 0.2240  |        |          |        |      |      |      |      |      |        |        |        |      |
| B15.80 | 0.2450  |        |          |        |      |      |      |      |      |        |        |        |      |
| B15.81 | 0.0540  |        |          |        |      |      |      |      |      |        |        |        |      |
| B15.82 | 4.4100  |        |          |        |      |      |      |      |      |        |        |        |      |
| B15.83 | 0.5460  |        |          |        |      |      |      |      |      |        |        |        |      |
| B15.84 | 0.2538  |        |          |        |      |      |      |      |      |        |        |        |      |
| B15.85 | 0.2700  |        |          |        |      |      |      |      |      |        |        |        |      |
| B15.86 | 0.3150  |        |          |        |      |      |      |      |      |        |        |        |      |
| B15.87 | 0.9375  |        |          |        |      |      |      |      |      |        |        |        |      |
| B15.88 | 0.4875  |        |          |        |      |      |      |      |      |        |        |        |      |
| B16    |         | 4.8100 |          | 7.4100 |      |      |      |      |      | 2.4750 | 5.3200 | 3.1388 |      |
| B16b   |         | 2.1600 |          | 1.7820 |      |      |      |      |      |        |        |        |      |
| B16c   |         | 3.7440 |          | 3.1200 |      |      |      |      |      |        |        |        |      |
| B16d   |         | 0.5198 |          | 3.1691 |      |      |      |      |      |        |        |        |      |
| B16d1  |         |        |          | 2.4514 |      |      |      |      |      |        |        |        |      |
| B16e   |         |        | 0.6370   |        |      |      |      |      |      |        |        |        |      |
| B16e1  |         | 0.2531 |          |        |      |      |      |      |      |        |        |        |      |
| B16e4  |         | 0.4550 |          |        |      |      |      |      |      |        |        |        |      |
| B16f   |         | 4.0755 |          | 2.4640 |      |      |      |      |      |        |        |        |      |
| B16g   |         | 1.3280 |          |        |      |      |      |      |      |        |        |        |      |
| B16g†  |         | 1.7250 |          |        |      |      |      |      |      |        |        |        |      |
| B16k   |         | 0.5525 |          |        |      |      |      |      |      |        |        |        |      |
| B16l   |         | 1.1305 |          |        |      |      |      |      |      |        |        |        |      |

**Texas wild-rice**  
**Aerial Coverage (m<sup>2</sup>) by Stand**

**1989-2001**

| Stand   | 2001    | 2000 | 1999     | 1998 | 1997   | 1996    | 1995    | 1994    | 1993    | 1992   | 1991   | 1990 | 1989   |
|---------|---------|------|----------|------|--------|---------|---------|---------|---------|--------|--------|------|--------|
| B16.1   |         |      |          |      |        |         |         |         |         |        |        |      |        |
| B16.2   |         |      |          |      |        |         |         |         |         |        |        |      | 2.0250 |
| B16.3   |         |      |          |      |        |         |         |         |         |        |        |      | 0.8750 |
| B16.4   |         |      |          |      |        |         |         |         |         |        |        |      | 3.2850 |
| B16.5   |         |      |          |      |        |         |         |         |         |        |        |      | 1.8900 |
| B16.6   |         |      |          |      |        |         |         |         |         |        |        |      | 1.5200 |
| B16.7   | 7.6238  |      | 6.9615   |      |        | 3.6960  | 3.8430  | 3.4425  | 1.4365  |        |        |      | 2.5500 |
| B16.8   | 32.9560 |      | 32.1360  |      |        | 14.1750 | 20.2521 | 16.8075 | 11.1825 |        |        |      | 1.7213 |
| B16.9   |         |      |          |      |        |         | 1.3440  | 0.1200  | 1.1250  |        |        |      | 9.7495 |
| B16.10  |         |      | 0.4875   |      |        | 2.2140  |         |         | 0.7200  | 1.1745 |        |      | 1.1148 |
| B16.11  |         |      |          |      |        |         |         |         |         | 1.4400 |        |      |        |
| B16.12  | 1.3800  |      | 1.5480   |      |        | 2.1060  | 1.6560  | 1.6640  |         |        |        |      |        |
| B16.13  |         |      | 0.7980   |      |        | 1.3200  |         |         | 0.1950  |        |        |      |        |
| B16.14  |         |      |          |      |        |         |         |         | 0.0720  |        |        |      |        |
| B16.15  | 6.8213  |      | 31.4808  |      |        | 4.0500  | 1.5900  | 1.4580  |         |        |        |      |        |
| B16.16  |         |      | 0.5250   |      |        | 1.4700  |         | 1.3860  |         |        |        |      |        |
| B16.17  | 1.4175  |      | 0.3938   |      |        | 6.0000  | 1.8934  |         |         |        |        |      |        |
| B16.17a | 4.7975  |      | 0.4160   |      |        |         |         |         |         |        |        |      |        |
| B16.17b |         |      | 0.6300   |      |        |         |         |         |         |        |        |      |        |
| B16.18  |         |      | 343.3581 |      |        |         | 1.3728  |         |         |        |        |      |        |
| B16.19  | 6.3840  |      | 4.5220   |      |        | 2.1840  |         |         |         |        |        |      |        |
| B16.20  |         |      |          |      |        | 0.2000  |         |         |         |        |        |      |        |
| B16.21  |         |      | 314.4753 |      |        | 0.0658  |         |         |         |        |        |      |        |
| B16.23  | 6.5100  |      | 3.1020   |      |        |         |         |         |         |        |        |      |        |
| B16.24  |         |      | 0.2063   |      |        |         |         |         |         |        |        |      |        |
| B16.25  |         |      | 0.2400   |      |        |         |         |         |         |        |        |      |        |
| B16.26  |         |      | 0.3240   |      |        |         |         |         |         |        |        |      |        |
| B16.27  |         |      | 0.4400   |      |        |         |         |         |         |        |        |      |        |
| B16.28  | 3.9600  |      |          |      |        |         |         |         |         |        |        |      |        |
| B16.30  | 1.9040  |      |          |      |        |         |         |         |         |        |        |      |        |
| B17     |         |      |          |      |        |         |         |         |         |        |        |      |        |
| B17.1   |         |      |          |      |        |         |         |         |         |        | 8.3520 |      | 5.6700 |
| B17.2   |         |      |          |      |        |         |         |         |         |        | 1.8720 |      |        |
| B17.3   |         |      |          |      |        |         |         |         |         |        | 1.7595 |      |        |
| B17.4   |         |      |          |      |        |         |         |         |         |        | 1.3770 |      |        |
| B17.5   |         |      |          |      |        |         |         |         | 1.8900  |        | 1.2094 |      |        |
| B17.6   |         |      |          |      |        |         |         | 4.5900  | 3.4320  |        |        |      |        |
| B17.7   |         |      |          |      |        |         | 1.4400  | 4.0560  | 2.0400  |        |        |      |        |
| B17.8   | 9.6600  |      | 273.9725 |      | 2.0085 |         | 2.4000  | 2.5500  | 1.2320  |        |        |      |        |

Aerial Coverage (m<sup>2</sup>) by Stand  
1989-2001

| Stand  | 2001   | 2000    | 1999     | 1998    | 1997   | 1996   | 1995   | 1994   | 1993   | 1992 | 1991   | 1990   | 1989 |
|--------|--------|---------|----------|---------|--------|--------|--------|--------|--------|------|--------|--------|------|
| B17.9  | 4.4200 |         | 3.6975   |         | 1.7160 | 1.4212 | 5.2500 | 3.4650 |        |      |        |        |      |
| B17.10 | 3.0240 |         | 3.6800   |         | 1.4981 | 1.1856 |        | 0.4950 |        |      |        |        |      |
| B17.11 |        |         |          |         |        | 0.4988 | 1.9575 |        |        |      |        |        |      |
| B17.12 |        |         |          |         |        | 0.0210 |        |        |        |      |        |        |      |
| B17.13 |        |         |          |         |        | 2.8688 |        |        |        |      |        |        |      |
| B17.14 |        |         | 294.2308 |         | 1.5792 | 0.9568 |        |        |        |      |        |        |      |
| B17.15 | 0.3798 |         |          |         |        |        |        |        |        |      |        |        |      |
| B17.18 | 0.6480 |         | 284.1808 |         |        |        |        |        |        |      |        |        |      |
| B17.19 |        |         | 314.0000 |         |        |        |        |        |        |      |        |        |      |
| B17.20 |        |         | 314.0000 |         |        |        |        |        |        |      |        |        |      |
| B17.21 |        |         | 0.6720   |         |        |        |        |        |        |      |        |        |      |
| B17.22 |        |         | 0.4500   |         |        |        |        |        |        |      |        |        |      |
| B17.23 | 3.0188 |         | 0.9900   |         |        |        |        |        |        |      |        |        |      |
| B17.24 | 6.4000 |         | 1.6673   |         |        |        |        |        |        |      |        |        |      |
| B18    | 5.2650 |         | 296.0000 |         | 3.7538 | 2.1483 | 2.3400 | 1.1928 | 0.5915 |      | 0.5520 | 0.4480 |      |
| B18.1  | 3.4500 |         | 1.9618   |         | 0.8465 |        | 1.4560 | 0.4680 |        |      |        |        |      |
| B18.2  | 0.6600 |         | 0.6600   |         |        |        |        |        |        |      |        |        |      |
| B18.5  | 2.2278 |         |          |         |        |        |        |        |        |      |        |        |      |
| B18.6  | 1.2000 |         |          |         |        |        |        |        |        |      |        |        |      |
| B19    | 1.3520 |         | 3.4510   |         | 1.9663 | 1.3475 | 1.7160 | 0.0260 | 0.8640 |      |        |        |      |
| B19a   |        |         | 29.3475  |         |        |        |        |        |        |      |        |        |      |
| B20    |        |         |          |         |        | 1.7600 |        |        |        |      |        |        |      |
| B20b   |        | 0.3589  |          | 1.8900  |        |        |        |        |        |      |        |        |      |
| B20c   |        | 0.9263  |          | 1.0238  |        |        |        |        |        |      |        |        |      |
| B20d   |        | 0.4650  |          | 2.4500  |        |        |        |        |        |      |        |        |      |
| B20e   |        | 2.0046  |          |         |        |        |        |        |        |      |        |        |      |
| B20f   |        | 0.2880  |          |         |        |        |        |        |        |      |        |        |      |
| B21    |        |         |          |         | 1.8700 |        |        |        |        |      |        |        |      |
| B21.1  |        |         | 0.4875   |         |        |        |        |        |        |      |        |        |      |
| B21.2  |        |         | 2.1600   |         |        |        |        |        |        |      |        |        |      |
| B22    | 3.6890 |         | 11.6600  |         | 0.6370 |        |        |        |        |      |        |        |      |
| B23    | 2.7450 |         | 25.4100  |         | 1.1970 |        |        |        |        |      |        |        |      |
| B23.1  | 3.9375 |         |          |         |        |        |        |        |        |      |        |        |      |
| B24    | 2.3000 |         | 39.5183  |         | 0.4950 |        |        |        |        |      |        |        |      |
| B25    | 2.4180 | 27.0000 | 34.2267  | 22.6100 | 0.7700 |        |        |        |        |      |        |        |      |
| B25b   |        |         |          | 4.0040  |        |        |        |        |        |      |        |        |      |
| B25c   |        |         |          | 0.5766  |        |        |        |        |        |      |        |        |      |
| B25.1  | 0.8400 |         |          |         |        |        |        |        |        |      |        |        |      |
| B25.2  | 2.7755 |         |          |         |        |        |        |        |        |      |        |        |      |

**Texas wild-rice**  
**Aerial Coverage (m<sup>2</sup>) by Stand**

**1989-2001**

| Stand | 2001   | 2000   | 1999     | 1998   | 1997   | 1996   | 1995 | 1994 | 1993 | 1992 | 1991 | 1990 | 1989   |
|-------|--------|--------|----------|--------|--------|--------|------|------|------|------|------|------|--------|
| B25.3 | 0.5375 |        |          |        |        |        |      |      |      |      |      |      |        |
| B26   | 5.3650 |        | 24.7600  |        |        | 1.8008 |      |      |      |      |      |      |        |
| B26a  |        |        |          |        | 1.1592 |        |      |      |      |      |      |      |        |
| B27   | 4.4588 |        | 87.3600  |        | 3.0550 | 1.1781 |      |      |      |      |      |      |        |
| B27a  |        |        |          |        | 0.4590 |        |      |      |      |      |      |      |        |
| B27b  |        |        |          |        | 0.3750 |        |      |      |      |      |      |      |        |
| B27c  |        |        |          |        | 0.8064 |        |      |      |      |      |      |      |        |
| B27d  |        |        |          |        | 0.1418 |        |      |      |      |      |      |      |        |
| B27e  |        |        |          |        | 0.4043 |        |      |      |      |      |      |      |        |
| B27.1 | 3.6956 |        |          | 0.7155 |        |        |      |      |      |      |      |      |        |
| B27.2 | 0.0495 |        |          |        |        |        |      |      |      |      |      |      |        |
| B28   | 2.3870 |        | 198.6683 |        |        | 1.5680 |      |      |      |      |      |      |        |
| B29   | 2.3040 | 5.1000 |          | 0.8873 | 3.0160 |        |      |      |      |      |      |      |        |
| B29.1 | 1.7160 |        |          |        |        |        |      |      |      |      |      |      |        |
| B30   | 1.3680 |        |          | 2.0240 |        |        |      |      |      |      |      |      |        |
| B31   | 0.9900 | 2.1000 |          |        | 1.9800 |        |      |      |      |      |      |      |        |
| B31a  |        |        |          |        | 1.3920 |        |      |      |      |      |      |      |        |
| B31d  |        | 0.0403 |          |        |        |        |      |      |      |      |      |      |        |
| B32   |        | 4.8160 |          |        | 4.3173 |        |      |      |      |      |      |      |        |
| B33   |        |        |          |        | 3.5840 |        |      |      |      |      |      |      |        |
| B33b  |        | 0.8925 |          |        |        | 3.4976 |      |      |      |      |      |      |        |
| B34   |        | 2.2750 |          |        |        | 1.9872 |      |      |      |      |      |      |        |
| B34a  |        | 1.8750 |          |        |        | 1.5000 |      |      |      |      |      |      |        |
| B35   |        | 1.6250 |          |        |        | 0.3875 |      |      |      |      |      |      |        |
| B35b  |        |        |          |        |        | 2.3040 |      |      |      |      |      |      |        |
| B36   |        |        |          |        |        | 2.1450 |      |      |      |      |      |      |        |
| B36a  |        |        |          |        |        | 2.1450 |      |      |      |      |      |      |        |
| B36b  |        |        |          |        |        | 2.1600 |      |      |      |      |      |      |        |
| B36c  |        |        |          |        |        | 1.2100 |      |      |      |      |      |      |        |
| B36d  |        |        |          |        |        | 2.1450 |      |      |      |      |      |      |        |
| B37   |        |        |          |        |        | 0.9800 |      |      |      |      |      |      |        |
| B37a  |        |        |          |        |        | 0.9783 |      |      |      |      |      |      |        |
| B37a1 |        |        |          |        |        | 0.9923 |      |      |      |      |      |      |        |
| B37b  |        |        |          |        |        | 2.3870 |      |      |      |      |      |      |        |
| B38   |        |        |          |        |        | 1.1592 |      |      |      |      |      |      |        |
| B39   |        |        |          |        |        |        |      |      |      |      |      |      |        |
| B40   |        |        |          |        |        |        |      |      |      |      |      |      |        |
| CO    |        |        |          |        |        |        |      |      |      |      |      |      | 0.2650 |

Years 1989-2001  
Aerial Coverage (m<sup>2</sup>) by Stand  
1989-2001

| Stand | 2001     | 2000     | 1999     | 1998     | 1997     | 1996     | 1995     | 1994     | 1993     | 1992     | 1991     | 1990     | 1989     |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| C1    | 15.3450  | 16.5900  | 12.3830  | 8.7750   | 13.0815  | 6.7210   | 6.0200   | 7.6670   | 4.2189   |          | 7.0192   | 5.1750   | 2.2000   |
| C1.1  |          |          |          | 1.9635   |          |          |          |          |          |          |          |          |          |
| C2    | 69.9660  | 96.3300  | 83.2650  | 66.1045  | 83.0700  | 77.9280  | 61.1478  | 75.4800  | 55.2050  | 85.4025  | 45.1103  | 28.8100  | 34.0500  |
| C2a   |          |          |          | 7.7250   | 8.1900   | 6.7253   | 4.0425   | 4.6851   |          |          |          |          |          |
| C2.1  | 4.7250   | 2.7844   |          |          |          |          |          |          |          |          |          |          |          |
| C3    |          |          |          |          |          |          |          |          |          |          |          |          | 2.6500   |
| C3.1  | 1.7875   | 2.3400   | 2.3100   | 1.9440   | 1.0800   | 1.7680   | 2.3513   | 2.0400   | 1.7955   |          |          |          |          |
| C4    |          |          |          |          |          |          |          |          |          |          |          | 0.9500   | 0.4200   |
| C5    | 243.3600 | 357.9600 | 335.6210 | 284.5440 | 268.4880 | 238.5000 | 239.7600 | 152.7120 | 289.2750 | 176.3775 | 142.3750 | 194.1319 | 102.6000 |
| C5a   |          |          |          |          |          |          |          |          |          |          |          | 2.7125   |          |
| C5b   |          |          |          | 9.3240   | 7.4056   | 7.2240   |          | 21.2660  | 0.6750   |          |          |          |          |
| C5c   | 7.0000   | 0.8156   |          |          |          |          |          |          |          |          |          |          |          |
| C5d   |          | 2.7000   |          |          |          |          |          |          |          |          |          |          |          |
| C5e   |          | 0.6353   |          |          |          |          |          |          |          |          |          |          |          |
| C5f   | 0.5950   |          |          |          |          |          |          |          |          |          |          |          |          |
| C5g   | 0.0938   |          |          |          |          |          |          |          |          |          |          |          |          |
| C5.1  | 15.8865  | 9.8670   | 12.3375  | 10.6590  | 8.0500   | 5.9340   | 15.0401  | 13.3313  | 1.3200   | 9.9120   | 12.5400  | 9.3960   |          |
| C5.2  |          |          |          |          |          |          |          |          |          |          | 17.8360  | 24.5700  |          |
| C5.3  |          |          |          |          |          |          |          |          |          |          | 1.4105   | 1.9360   |          |
| C5.4  |          |          |          |          |          |          |          | 4.4720   |          |          |          |          |          |
| C5.5  | 1.2950   | 1.6445   | 2.9925   | 2.0664   | 0.6840   | 0.2080   | 0.3658   | 1.5173   |          |          |          |          |          |
| C5.6  | 0.2640   | 0.1950   |          |          |          | 70.2000  |          |          |          |          |          |          |          |
| C5.7  | 0.9900   | 0.9565   |          |          |          |          |          |          |          |          |          |          |          |
| C6    | 23.1660  | 29.5920  | 24.5493  | 25.4475  | 24.3090  |          | 79.3328  | 77.0880  | 89.1800  | 90.0480  | 49.1040  | 81.4720  | 66.0820  |
| C6a   |          |          |          |          |          |          |          |          |          |          |          | 1.8000   |          |
| C6b   |          |          | 0.9120   | 0.5558   |          | 0.3120   |          | 0.4760   | 1.9665   |          |          |          |          |
| C6c   |          |          |          |          |          |          | 2.5125   |          |          |          |          |          |          |
| C6d   |          |          |          |          |          |          | 1.1385   |          |          |          |          |          |          |
| C6f   |          |          |          |          | 1.4280   |          |          |          |          |          |          |          |          |
| C6g   |          |          |          | 0.9800   |          |          |          |          |          |          |          |          |          |
| C6h   |          |          |          | 0.1800   |          |          |          |          |          |          |          |          |          |
| C6.1  |          |          |          |          |          | 2.8000   | 1.3800   |          | 1.3440   | 0.5850   | 3.1920   | 1.5960   |          |
| C7    |          |          |          |          | 0.1200   | 1.8096   | 4.5560   | 2.8350   | 0.7560   | 1.1340   | 4.0950   | 4.9400   | 2.9050   |
| C7.1  |          |          |          |          |          | 1.0500   | 2.1375   | 0.7680   | 2.0160   | 0.3648   | 0.4160   | 0.4455   |          |
| C8    |          |          |          |          |          |          | 1.2750   | 0.3080   | 1.0500   | 1.1475   | 1.1000   | 1.0500   | 1.2250   |
| C9    | 4.9163   | 1.1200   | 1.3440   | 0.6825   | 0.4869   | 41.4540  | 92.6250  | 82.6575  | 83.9520  | 84.2580  | 104.3400 | 116.1270 | 114.6960 |
| C9a   |          |          |          |          |          |          |          |          |          |          | 3.4800   | 2.5620   |          |
| C9b   | 3.7519   | 3.4125   | 2.9437   | 1.4981   | 0.3795   |          |          |          |          |          |          |          |          |
| C9c   | 3.9813   | 2.0020   | 1.5235   | 0.9360   | 0.3840   |          |          |          |          |          |          |          |          |

**Texas wild-rice**  
**Aerial Coverage (m<sup>2</sup>) by Stand**

1989-2001

| Stand | 2001   | 2000   | 1999    | 1998   | 1997    | 1996    | 1995   | 1994   | 1993   | 1992    | 1991    | 1990    | 1989    |
|-------|--------|--------|---------|--------|---------|---------|--------|--------|--------|---------|---------|---------|---------|
| C9d   | 1.7213 | 0.8190 | 1.1813  | 0.7200 | 0.3955  |         |        |        |        |         |         |         |         |
| C9e   |        | 0.4620 |         |        |         |         |        |        |        |         |         |         |         |
| C10   | 0.3200 | 0.3600 |         |        |         |         |        |        |        |         |         |         |         |
| E0    |        |        |         |        | 0.1630  |         |        |        |        |         |         |         |         |
| E1    |        |        |         | 4.8360 | 11.7816 | 13.6080 | 2.5840 | 6.6600 | 7.5075 | 6.5100  | 26.7264 | 14.5275 | 11.2200 |
| E1a   |        |        |         | 3.3300 |         | 1.0880  | 0.7838 | 1.0800 |        |         |         |         |         |
| E1b   |        |        |         | 3.0225 | 4.1766  | 3.1000  | 2.2149 | 2.8210 |        |         |         |         |         |
| E1c   | 0.2925 |        |         | 6.6150 |         |         | 7.6500 |        |        |         |         |         |         |
| E2    | 4.0800 | 0.4860 | 11.3582 | 5.0050 | 7.0488  | 13.4640 | 6.3750 | 7.9800 | 3.8380 | 10.7880 | 5.9635  | 7.3920  | 10.9650 |
| E2a   |        |        |         | 0.8663 |         |         | 1.1550 |        |        |         |         |         |         |
| E2b   | 0.7560 | 1.4400 | 0.7540  | 0.4095 |         |         | 0.5040 |        |        |         |         |         |         |
| E2c   |        |        |         | 0.1925 |         |         | 0.7013 |        |        |         |         |         |         |
| E2d   |        |        |         | 2.8600 |         |         | 2.1399 |        |        |         |         |         |         |
| E2e   |        |        |         | 0.5670 |         |         |        |        |        |         |         |         |         |
| E2f   | 0.1313 |        |         |        |         |         |        |        |        |         |         |         |         |
| E2.1  |        | 0.5500 |         |        |         |         |        |        |        |         |         |         |         |
| E3    | 0.1600 | 1.8000 | 2.9070  | 2.5200 | 6.2640  | 13.4400 | 9.4500 | 6.1440 | 7.6670 | 1.0880  | 17.1100 | 6.8125  | 6.0900  |
| E4    |        |        |         |        |         |         |        |        |        |         |         |         | 1.6646  |
| E5    |        |        |         | 0.1400 | 0.4536  | 0.8100  | 0.7280 | 1.6000 | 1.7000 | 9.0440  | 0.8580  | 1.0000  | 0.3750  |
| E6    | 0.3750 | 0.4320 | 0.3920  | 0.5355 | 0.6300  | 0.5985  |        |        |        |         |         | 0.3315  | 0.3500  |
| E6.1  |        |        |         |        |         |         |        |        | 0.3240 |         |         |         |         |
| E6.2  |        |        |         |        |         |         |        | 1.2960 | 1.0450 |         |         |         |         |
| E6.3  |        | 0.2160 | 1.2375  | 1.9500 | 2.9169  | 0.7963  | 5.8800 | 1.7150 | 2.7720 |         |         |         |         |
| E6.3a |        |        |         | 0.1875 |         |         |        |        |        |         |         |         |         |
| E6.3b |        |        |         | 0.1350 |         |         |        |        |        |         |         |         |         |
| E6.4  |        |        |         |        |         |         |        |        | 4.5570 |         |         |         |         |
| E6.5  |        |        |         |        |         |         |        |        | 0.8415 |         |         |         |         |
| E6.6  |        |        |         | 0.4288 | 0.6902  | 0.3040  | 1.5188 | 0.6510 | 0.5670 |         |         |         |         |
| E6.7  |        |        |         |        |         |         | 0.6120 |        |        |         |         |         |         |
| E6.8  |        |        |         |        |         | 0.0720  |        |        |        |         |         |         |         |
| E6.9  |        |        |         | 0.7600 | 0.7579  |         |        |        |        |         |         |         |         |
| E6.10 |        |        |         |        | 0.3445  |         |        |        |        |         |         |         |         |
| E6.11 | 0.2400 |        |         |        |         |         |        |        |        |         |         |         |         |
| E7    |        |        |         | 0.5168 | 0.2400  | 1.5125  | 3.0870 | 4.1230 | 3.7050 | 4.0600  | 1.7100  | 1.4950  |         |
| E7a   |        |        |         |        |         |         |        |        |        |         |         |         | 0.6875  |
| E7.1  |        |        |         | 1.0710 | 1.7973  | 1.5521  | 0.9200 | 0.5850 |        |         |         |         |         |
| E7.2  |        |        |         |        |         |         | 0.2430 | 0.1920 |        |         |         |         |         |
| E7.3  |        |        |         |        |         |         | 0.4988 |        |        |         |         |         |         |

**Texas wild-rice**  
**Aerial Coverage (m<sup>2</sup>) by Stand**

**1989-2001**

| Stand | 2001   | 2000   | 1999   | 1998    | 1997    | 1996   | 1995    | 1994    | 1993    | 1992    | 1991    | 1990    | 1989    |
|-------|--------|--------|--------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|
| E7.4  |        |        |        | 0.3120  |         | 0.3536 |         |         |         |         |         |         |         |
| E8    | 2.5480 | 2.8420 | 5.5680 | 2.7132  | 8.0073  | 1.4918 | 2.3760  | 6.3450  | 8.2688  | 3.6720  | 12.6480 | 7.6650  | 6.3840  |
| E8a   |        |        |        | 0.5438  | 1.5552  | 0.1980 | 1.2750  | 1.3440  |         |         | 4.4850  | 3.0240  | 2.6180  |
| E8b   |        |        |        | 0.4760  | 0.5819  | 0.6970 | 0.6930  |         |         |         |         |         | 0.6600  |
| E8c   | 0.1440 | 0.0630 |        | 2.4083  |         | 1.2000 | 1.3300  |         |         |         |         |         |         |
| E8d   | 1.5200 | 1.6800 | 0.3135 | 0.2700  |         | 1.4040 | 0.1620  |         |         |         |         |         |         |
| E8e   |        |        |        |         |         |        | 0.1980  |         |         |         |         |         |         |
| E8f   |        |        |        | 0.2187  |         |        |         |         |         |         |         |         |         |
| E8.1  |        |        |        | 0.5376  | 1.3829  | 0.9359 |         |         |         |         |         |         |         |
| E8.2  | 0.0300 |        |        |         |         |        |         |         |         |         |         |         |         |
| E8.3  | 0.0990 |        |        |         |         |        |         |         |         |         |         |         |         |
| E9    | 2.4960 | 2.1661 | 2.1423 | 3.6300  | 5.9788  | 3.5200 | 5.7750  | 2.6565  |         |         |         | 1.8700  | 2.1450  |
| E9.1  | 0.8370 | 0.9653 | 0.7875 | 1.7780  |         | 0.6750 | 1.8225  | 0.7650  | 5.2800  | 0.9310  | 3.0030  | 0.8800  |         |
| E10   |        |        |        |         |         |        |         |         |         | 3.2500  | 4.1400  | 2.4300  | 3.3600  |
| E10.1 |        |        |        |         |         |        | 0.2441  | 0.0900  |         |         |         |         |         |
| E11   | 1.8590 | 6.9345 | 4.1860 | 5.4137  | 5.0310  | 1.9200 | 4.1125  | 3.0800  | 7.8650  | 12.6960 | 17.1680 | 12.4950 | 18.2970 |
| E11a  |        |        |        |         |         |        |         |         |         | 0.4080  |         |         |         |
| E11b  |        |        |        |         |         |        |         |         |         | 1.6320  |         |         |         |
| E11c  | 0.0438 | 0.1690 | 0.2888 | 1.1760  |         | 0.5600 | 1.8063  | 0.7800  |         |         |         |         |         |
| E11d  |        |        |        | 2.0790  |         | 2.2275 | 0.1575  | 1.4580  | 1.4963  |         |         |         |         |
| E11e  | 0.8640 |        |        |         | 0.3840  | 0.7040 |         |         |         |         |         |         |         |
| E11.1 |        |        |        |         |         |        |         |         |         | 0.4160  |         |         |         |
| E12   |        |        |        |         |         |        |         |         |         |         |         | 2.7300  | 4.2000  |
| E12.1 |        |        |        |         |         |        |         |         | 3.4320  | 5.2800  |         |         |         |
| E12.2 |        |        | 0.6160 |         |         |        |         |         |         |         |         |         |         |
| E13   |        |        |        |         |         |        |         |         |         |         |         |         |         |
| E14   | 3.4155 | 5.0531 | 7.6835 | 11.0880 | 13.6500 | 9.7440 | 14.4403 | 11.1600 | 14.1450 |         |         | 2.5600  | 2.5600  |
| E14a  |        |        | 0.1103 |         |         |        |         |         |         |         | 13.2000 | 7.3780  | 10.8800 |
| E14b  | 0.0900 |        |        |         |         |        |         |         |         |         |         |         |         |
| E14.1 |        |        |        | 0.5031  |         |        |         |         |         |         |         |         |         |
| F1    |        |        |        |         |         |        |         |         |         |         |         |         | 0.1008  |
| F2    | 0.5250 | 0.3713 | 2.1450 | 2.4505  | 3.4800  | 3.9644 | 3.5360  | 2.9760  | 3.5793  | 2.6880  | 2.6600  | 2.2875  | 1.6000  |
| F2a   |        |        |        |         |         |        |         | 0.6840  |         |         |         |         |         |
| F2.1  |        |        |        | 2.7720  | 2.5988  |        |         |         |         | 1.0625  | 14.3175 |         |         |
| F2.2  |        |        |        | 1.9880  | 0.7595  |        | 0.3240  |         |         |         |         |         |         |
| F3    |        |        |        | 2.1840  | 0.9750  | 2.0580 | 1.7640  | 0.9900  | 1.6031  | 1.5190  |         | 0.2580  | 1.1822  |
| F4    |        |        |        | 1.4918  | 0.9300  | 1.5360 | 0.4725  | 0.5250  | 0.3800  | 0.4140  | 2.8910  | 2.4000  | 0.7129  |
| F4.1  |        |        |        |         |         |        |         |         | 0.1560  | 0.2880  |         |         |         |

**Texas wild-rice**  
**Aerial Coverage (m<sup>2</sup>) by Stand**  
**1989-2001**

| Stand | 2001     | 2000     | 1999     | 1998     | 1997     | 1996     | 1995     | 1984     | 1993     | 1992     | 1991     | 1990     | 1989     |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| F4.2  |          |          |          |          |          |          |          |          | 0.1680   | 0.1260   |          |          |          |
| F4.3  |          |          |          |          |          |          |          |          | 0.5250   |          |          |          |          |
| F4.4  | 1.1440   |          |          | 2.0625   | 2.1120   | 1.6100   | 2.1280   | 2.5600   | 0.9375   |          |          |          |          |
| F4.4a |          |          |          |          |          |          |          | 0.0585   |          |          |          |          |          |
| F4.5  |          |          |          |          |          |          |          | 0.6503   |          |          |          |          |          |
| F4.6  | 1.0000   |          |          | 3.6075   |          |          |          |          |          |          |          |          |          |
| F5    | 1.2863   | 0.8450   | 0.2224   | 2.7265   | 3.5840   | 2.4206   | 2.4310   | 2.2838   | 1.5000   | 3.5700   |          | 0.2300   | 2.0425   |
| F5.1  |          |          |          |          | 2.3920   | 2.9440   | 1.8488   | 1.7290   | 0.3586   | 7.5000   | 0.8400   |          |          |
| F5.2  |          |          |          |          |          |          |          |          | 0.5460   | 1.7080   | 0.9120   |          |          |
| F6    | 83.1600  | 59.2025  | 84.0840  | 72.4000  | 64.0000  | 60.9920  | 77.1900  | 34.7100  | 67.1640  | 66.6900  | 43.9600  | 22.0892  | 59.6925  |
| F6a   |          |          |          |          |          |          |          |          |          | 0.6000   |          |          |          |
| F6b   |          |          |          |          |          |          |          |          |          | 0.7800   |          |          |          |
| F6d   |          |          | 2.3680   | 2.0180   |          |          |          |          |          |          |          |          |          |
| F6e   | 2.1120   | 1.0413   | 0.5220   | 7.1355   |          |          |          |          |          |          |          |          |          |
| F7    | 9.1200   | 12.5195  | 9.5475   | 15.7112  | 13.1328  | 7.3440   | 15.6780  | 8.4320   | 2.8160   |          | 4.3798   | 6.3600   | 6.7328   |
| F7.1  |          |          |          |          |          |          |          |          |          |          | 2.3760   |          |          |
| F8    | 16.2800  | 19.0000  | 10.6600  |          | 24.8750  | 23.1840  | 17.5988  | 20.5905  | 46.3320  | 27.5520  | 28.7680  | 2.8980   | 28.5750  |
| F8a   |          |          |          |          | 4.6596   |          |          |          |          |          |          | 12.3690  |          |
| F8b   |          |          |          |          |          |          |          |          |          |          | 0.4050   |          |          |
| F8c   |          |          |          |          |          |          |          |          |          |          | 0.5525   |          |          |
| F8d   |          |          |          |          |          | 0.5474   | 0.4568   | 0.6300   |          |          |          |          |          |
| F8e   |          |          | 1.5840   | 3.8665   |          |          |          |          |          |          |          |          |          |
| F8f   |          | 2.4500   |          | 2.0475   |          |          |          |          |          |          |          |          |          |
| F8g   | 2.7540   |          | 2.7720   |          |          |          |          |          |          |          |          |          |          |
| F9    |          |          |          |          |          |          |          |          |          |          | 4.0000   | 2.2374   | 1.9040   |
| F9.1  |          |          |          |          |          |          | 2.6560   | 0.8960   | 0.6120   | 0.3420   |          |          |          |
| F10   |          |          |          |          |          |          |          |          |          |          | 0.7560   | 2.4565   | 1.2375   |
| F11   | 33.1200  | 22.6100  | 38.6325  | 35.0980  | 36.1004  | 28.4130  | 36.4640  | 26.0775  | 16.4160  | 43.7340  | 30.5550  | 30.7800  | 21.8700  |
| F11.1 |          |          | 0.4095   |          |          |          |          |          |          |          |          |          |          |
| F12   | 198.2793 | 62.5800  | 149.3100 | 154.4520 | 169.3949 | 129.5370 | 101.5875 | 156.5600 | 275.9120 | 198.1800 | 143.4240 | 152.3240 | 150.9200 |
| F12a  |          | 153.0795 | 21.0000  |          |          |          |          |          |          |          |          |          |          |
| F12b  |          |          | 1.7710   |          |          |          |          |          |          |          |          |          |          |
| F12c  | 2.6775   | 0.8250   |          |          |          |          |          |          |          |          |          |          |          |
| F12d  |          | 0.2200   |          |          |          |          |          |          |          |          |          |          |          |
| F13   | 5.9573   | 10.3548  | 10.4160  | 7.6440   | 7.1000   | 9.1875   | 7.9800   | 7.7280   | 4.7190   | 6.8880   | 2.7600   | 4.6200   |          |
| F14   | 2.0000   | 5.4203   | 0.9675   | 0.3774   | 1.1440   | 0.3150   | 1.0763   | 0.7920   | 1.2058   | 0.7200   | 1.5750   | 0.2940   |          |
| F15   |          |          | 3.0800   | 2.9250   | 2.8194   | 1.9200   | 3.0800   | 1.6200   | 3.4615   | 1.5015   | 1.5600   | 0.3000   |          |
| F16   |          |          |          | 0.1125   |          |          |          |          |          |          |          |          |          |

**Texas wild-rice**  
**Aerial Coverage (m<sup>2</sup>) by Stand**

**1989-2001**

| Stand | 2001   | 2000    | 1999    | 1998    | 1997   | 1996   | 1995   | 1994    | 1993    | 1992   | 1991   | 1990    | 1989    |
|-------|--------|---------|---------|---------|--------|--------|--------|---------|---------|--------|--------|---------|---------|
| G0    | 1.2000 |         |         |         |        |        |        |         |         |        |        |         |         |
| G1    |        | 4.4363  | 6.3525  | 7.2765  | 0.9270 | 1.3520 | 3.7034 | 2.5160  | 4.4288  | 9.5040 | 1.7940 | 2.4737  | 5.6610  |
| G1b   | 0.0625 |         |         |         |        |        |        |         |         |        |        |         |         |
| G2    |        | 1.6275  | 0.2565  | 2.7200  | 2.4420 | 1.7670 | 2.0925 | 1.3440  | 1.7531  | 2.1080 | 1.6560 | 1.8683  | 11.0160 |
| G3    | 3.3500 | 14.7840 | 16.1874 | 10.8066 | 8.6100 | 7.5240 | 6.1408 | 13.0518 | 14.0658 | 1.0350 | 9.4350 | 14.4866 | 1.9010  |
| G3a   | 0.0090 |         | 0.3600  |         |        |        |        |         |         |        |        |         |         |
| G3b   | 0.0525 |         | 0.0990  |         |        |        |        |         |         |        |        |         |         |
| G3c   | 0.0525 |         |         |         |        |        |        |         |         |        |        |         |         |
| G4    |        |         |         |         |        |        | 2.8080 | 0.7280  |         |        |        |         |         |
| H0a   |        |         |         |         |        |        |        | 0.0238  |         |        |        |         |         |
| H1    |        |         |         |         |        |        |        |         | 0.0888  |        | 0.3840 | 0.2340  | 0.9000  |
| H2    | 0.9788 | 2.0650  | 0.1125  | 1.7500  | 1.6640 | 4.2017 | 4.6183 | 3.5245  | 1.0318  | 6.3000 | 7.5296 | 11.5830 | 10.5000 |
| H2a   |        | 0.4500  |         |         |        |        | 0.4070 | 0.1470  |         |        | 1.4280 |         |         |
| H2b   |        | 1.1550  |         |         |        |        |        | 0.0360  | 0.0153  |        |        |         |         |
| H2c   |        |         | 0.3713  | 0.3080  | 0.1225 | 0.1490 |        |         |         |        |        |         |         |
| H2d   |        |         | 0.3960  | 0.6300  | 0.3750 |        |        |         |         |        |        |         |         |
| H2e   |        |         | 0.1530  | 0.1488  | 0.2708 |        |        |         |         |        |        |         |         |
| H2f   |        |         | 0.6300  |         |        |        |        |         |         |        |        |         |         |
| H2g   |        |         | 1.2600  |         |        |        |        |         |         |        |        |         |         |
| H3    |        |         |         |         |        |        |        | 0.1820  |         | 1.4700 | 0.6750 |         |         |
| H4    |        |         |         |         |        |        |        |         | 0.1870  |        | 0.0750 |         |         |
| H4a   |        |         |         |         |        |        |        |         | 0.3570  |        |        |         |         |
| H5    |        |         |         | 0.0630  |        |        |        |         |         |        |        |         |         |
| I1    |        |         |         |         |        |        |        |         |         |        | 0.1755 | 0.2272  | 2.3800  |
| I2    |        |         |         |         |        |        |        |         |         |        |        | 0.3280  | 3.1500  |
| I3    |        |         |         |         |        |        |        |         |         |        |        | 0.3020  | 0.9075  |
| I4    |        |         |         |         |        | 0.0640 | 0.1063 | 0.1680  | 0.1925  | 0.2090 | 0.0875 | 0.4984  | 3.8080  |
| I4a   |        |         |         |         |        |        |        |         |         |        |        | 0.7518  | 1.1550  |
| I5    |        |         |         |         |        |        |        |         |         |        |        | 0.6289  | 0.5265  |
| I6    |        |         |         |         |        |        |        |         |         |        |        | 0.2719  | 1.6575  |
| I6a   |        |         |         |         |        |        |        |         |         |        |        | 0.2363  | 0.1085  |
| I6b   |        |         |         |         |        |        |        |         |         |        |        | 0.6983  |         |
| J1    |        | 2.4780  | 3.4580  | 5.7000  | 4.2000 | 6.6239 | 5.0820 | 9.4752  | 16.8795 | 5.4400 | 8.3235 | 15.0034 | 4.8600  |
| J1a   |        |         |         |         |        |        | 0.2310 |         |         |        |        |         |         |
| J1b   |        | 0.7200  | 0.7600  |         | 0.4620 |        |        |         |         |        |        |         |         |
| J2    |        |         |         |         |        |        |        |         |         |        |        |         | 7.0525  |

FOCUS SURVEY  
Aerial Coverage (m<sup>2</sup>) by Stand  
1989-2001

| Stand | 2001   | 2000   | 1999   | 1998   | 1997   | 1996   | 1995    | 1994    | 1993    | 1992    | 1991    | 1990    | 1989    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| J3    |        |        |        |        |        | 0.5639 |         | 0.0550  | 0.5187  |         | 1.2635  | 1.0688  | 1.5000  |
| J3.1  |        | 0.2635 |        |        |        |        |         |         |         |         |         |         |         |
| J4    | 1.2600 | 1.2000 | 0.7963 | 1.4089 | 1.2740 | 0.2695 | 3.9000  | 12.8304 | 6.9518  | 6.8820  | 8.4800  | 9.3555  | 9.6188  |
| J4a   |        |        |        |        |        |        | 0.3600  |         |         |         |         |         |         |
| J4b   |        |        |        |        |        |        | 0.1500  |         |         |         |         |         |         |
| J4c   |        |        |        |        |        | 0.0880 |         |         |         |         |         |         |         |
| J4d   |        |        |        |        |        | 0.9450 |         |         |         |         |         |         |         |
| J5    |        |        |        |        |        |        |         |         |         |         |         |         |         |
| J6    | 0.2063 | 0.1710 | 0.3575 | 3.5266 | 4.2240 | 9.0000 | 13.5300 | 21.2500 | 16.0820 | 0.6300  | 2.6730  | 1.7100  | 1.0000  |
| J6a   |        |        |        |        |        |        |         |         |         | 21.7800 | 20.2020 | 17.0560 | 9.1800  |
| J6b   |        |        |        |        |        | 0.1344 | 0.4320  |         |         | 0.2805  |         |         |         |
| J6c   |        |        |        | 0.0938 | 0.3780 | 0.0980 |         |         |         |         |         |         |         |
| J6d   | 0.0660 | 0.1100 | 0.0731 | 1.4391 | 3.1106 |        |         |         |         |         |         |         |         |
| J6e   |        |        |        | 0.2218 | 2.1150 |        |         |         |         |         |         |         |         |
| J6f   |        |        | 0.0390 |        |        |        |         |         |         |         |         |         |         |
| J7    |        |        |        |        |        |        |         |         |         |         |         |         | 4.3680  |
| J7.1  |        |        |        | 1.2120 |        |        |         |         |         |         |         |         |         |
| J7.2  |        |        |        | 0.9135 | 0.2380 |        |         |         |         |         |         |         |         |
| J8    | 4.1388 | 0.6975 | 0.4860 | 3.8253 | 2.8875 | 0.4204 | 0.5688  |         |         | 0.7130  | 1.6720  | 1.9950  | 2.3400  |
| J8a   |        |        |        |        |        | 0.0857 | 0.4590  |         |         |         |         |         |         |
| J8b   |        | 0.4320 |        |        |        |        |         |         |         |         |         |         |         |
| J8.1  |        |        | 0.2800 |        |        |        |         |         |         |         |         |         |         |
| J8.2  |        |        | 0.4590 |        |        |        |         |         |         |         |         |         |         |
| J9    |        |        |        |        |        |        |         | 0.7020  | 0.8240  | 2.4180  | 1.0800  | 0.9450  | 2.2575  |
| J9a   |        |        |        |        |        |        |         | 0.5400  | 0.1456  |         |         |         |         |
| J10   |        |        | 0.3220 |        |        | 0.3088 | 0.5670  |         |         |         |         |         |         |
| J11   | 0.3300 | 0.1120 |        | 2.9266 | 6.4860 | 2.5920 | 2.3760  | 16.1000 | 30.0913 | 45.6750 | 43.2540 | 28.7760 | 8.7320  |
| J11a  |        |        |        |        |        | 0.0080 |         |         |         |         |         |         | 16.4160 |
| J11b  |        |        |        |        |        | 0.0070 |         |         |         |         |         |         |         |
| J11c  |        |        |        |        |        | 0.1350 | 0.0400  |         |         |         |         |         |         |
| J12   |        |        |        |        |        | 0.2009 | 0.2400  | 0.3136  | 5.6760  | 1.1220  | 1.8850  | 2.5380  |         |
| J13   |        |        | 0.1870 | 2.2247 | 1.2825 | 0.5775 | 2.3000  | 5.3900  | 6.8200  | 11.2710 | 7.8000  | 15.0750 | 9.1125  |
| J13a  |        |        |        |        | 0.4826 | 0.2210 | 0.4700  |         |         |         |         |         |         |
| J14   |        |        |        |        |        | 0.1020 | 0.0100  | 1.3464  | 1.5120  | 0.7353  | 0.9000  | 0.3300  |         |
| J15   |        |        |        |        |        | 0.0720 |         | 0.5600  | 2.8560  | 1.1900  | 3.6400  | 0.3500  |         |
| J16   |        |        |        | 1.6350 | 1.3650 | 1.2540 | 0.4320  | 0.8610  | 2.1938  | 2.9250  | 0.6480  | 1.8000  | 1.5000  |
| J17   |        |        |        |        |        | 0.4500 | 0.8960  | 0.2430  |         | 1.2765  | 1.5300  | 2.1600  | 1.5200  |
| J18   |        |        |        | 1.6542 | 0.9000 | 0.7020 | 0.6720  | 0.1170  | 0.6188  | 0.9555  | 1.7226  | 3.4200  | 1.4318  |
| J18a  |        |        |        |        | 1.4739 | 0.2700 |         | 0.0329  | 0.8271  |         |         |         |         |

**Texas wild-rice**  
**Aerial Coverage (m<sup>2</sup>) by Stand**

1989-2001

| Stand  | 2001   | 2000   | 1999   | 1998    | 1997    | 1996    | 1995    | 1994   | 1993   | 1992    | 1991    | 1990    | 1989    |
|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|---------|---------|---------|---------|
| J18.1  |        |        |        |         |         |         |         |        |        |         |         |         |         |
| J19    |        |        |        |         |         |         | 0.4095  | 0.2380 |        |         |         |         |         |
| J20    |        |        |        |         | 4.4243  | 1.2800  | 4.3710  | 2.4795 | 2.9700 | 4.2120  | 1.7550  | 4.3500  | 6.8640  |
| J20a   |        |        |        |         |         |         | 0.0640  | 0.1680 |        |         |         |         | 0.6163  |
| J21    |        |        |        |         |         |         |         |        |        |         |         |         | 3.7345  |
| J21a   | 0.0315 | 0.0320 | 0.4320 | 1.7400  | 1.0320  | 0.6750  | 1.2000  | 0.3960 | 1.0800 | 0.3240  | 0.3375  | 0.1080  | 1.6450  |
| J22    |        |        |        |         |         | 1.9600  | 1.3000  | 1.6240 | 1.2870 | 0.8280  | 2.0790  | 0.6525  | 0.0152  |
| J23    |        |        |        |         |         |         |         |        |        |         | 1.0800  |         | 1.1550  |
| J24    |        |        |        |         |         |         |         |        |        |         |         | 0.2754  | 1.4175  |
| J25    |        |        |        |         |         |         |         |        |        |         |         | 1.2690  | 0.4865  |
| J26    |        |        |        |         |         |         |         |        |        |         |         | 0.5700  | 0.2280  |
| J27    |        |        |        |         |         |         |         |        |        |         |         | 2.1938  | 0.8610  |
| J28    |        |        |        |         |         |         |         |        |        |         | 0.5760  | 2.8080  | 1.0127  |
| K1     |        |        |        |         |         |         |         |        |        |         |         |         |         |
| K2     |        |        |        |         |         |         |         |        |        |         |         |         |         |
| K2a    | 0.7268 | 0.5250 | 0.0000 | 7.1775  | 5.2500  | 7.4880  | 9.4250  | 4.1764 | 7.6000 | 11.1650 | 21.5280 | 25.6320 | 10.7500 |
| K2aa   | 1.1760 | 0.6364 | 0.2156 | 19.8720 | 13.1130 | 16.7580 | 13.6868 | 6.4089 | 6.2813 |         |         |         |         |
| K2.1   |        |        |        |         |         |         | 0.2250  |        |        |         |         |         |         |
| K3     |        |        |        |         |         |         |         |        |        |         |         |         |         |
| K4     |        |        |        |         |         |         |         |        |        |         |         |         |         |
| K4.1   |        |        |        |         |         |         |         |        |        |         |         |         |         |
| K5     |        |        |        |         |         |         |         |        |        |         |         |         |         |
| K6     |        |        |        |         |         |         |         |        |        |         |         |         |         |
| K6.1   |        |        |        |         |         |         |         |        |        |         |         |         |         |
| K6.2   |        |        |        |         |         |         |         |        |        |         |         |         |         |
| K7     |        |        |        |         |         |         |         |        |        |         |         |         |         |
| K7a    |        |        |        |         |         |         |         |        |        |         |         |         |         |
| K7b    |        |        |        |         |         |         |         |        |        |         |         |         |         |
| K7.1   |        |        |        |         |         |         |         |        |        |         |         |         |         |
| K8     |        |        |        |         |         |         |         |        |        |         |         |         |         |
| K9     |        |        |        |         |         |         |         |        |        |         |         |         |         |
| K9.1   | 0.8050 | 0.5250 | 0.3315 | 0.6739  | 0.6442  | 0.5498  | 0.4860  | 0.6000 | 0.2880 | 0.4480  | 0.6075  | 3.4850  | 1.0560  |
| K9.2   |        |        |        |         |         |         |         |        | 0.0113 | 1.3440  | 0.6480  | 0.3060  | 0.0540  |
| K10    |        |        |        |         |         |         |         |        |        |         |         |         |         |
| K10.1  |        |        |        |         |         |         |         |        |        |         |         |         |         |
| K10.2  |        |        |        |         |         |         |         |        |        |         |         |         |         |
| K10.3  |        |        |        |         |         |         |         |        |        |         |         |         |         |
| K10.3a |        |        |        |         |         |         |         |        |        |         |         |         |         |

Texas Wild Rice  
Aerial Coverage (m<sup>2</sup>) by Stand  
1989-2001

| Stand  | 2001   | 2000   | 1999   | 1998    | 1997    | 1996    | 1995    | 1994   | 1993   | 1992   | 1991    | 1990    | 1989   |
|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|---------|---------|--------|
| K10.3b |        |        |        | 2.5277  | 1.3195  | 1.9488  |         | 0.9994 |        |        |         |         |        |
| K10.3c |        |        |        | 1.6671  |         | 2.5368  |         |        |        |        |         |         |        |
| K11    |        |        |        |         |         |         |         |        | 1.6530 | 2.6450 | 1.5400  | 2.6280  | 2.8080 |
| K11.1  |        |        |        |         |         |         |         |        |        | 1.0115 | 1.9440  |         |        |
| K11.2  |        |        |        |         |         |         |         | 0.2925 | 0.1100 |        |         |         |        |
| K12    |        |        |        |         |         |         |         | 0.2430 | 0.4463 |        |         | 0.1600  | 0.3339 |
| K13    |        |        |        |         |         |         |         |        |        |        |         | 0.0850  | 0.5236 |
| K13.1  |        |        | 0.0165 |         |         |         |         |        |        |        |         |         | 0.2200 |
| K14    |        |        |        | 0.9367  | 0.6630  | 1.8480  | 0.6600  |        | 0.1440 | 0.3000 | 0.2080  | 1.7010  | 1.4000 |
| K15    | 0.2650 | 0.4550 | 0.0098 | 17.3814 | 11.8738 | 24.0900 | 16.5060 | 8.9925 | 5.7510 | 9.1000 | 15.0080 | 18.9113 | 3.3550 |
| K15a   |        |        |        | 0.8316  |         | 0.3600  |         |        | 0.3780 |        |         |         |        |
| K15b   |        |        |        | 0.5625  |         |         |         |        |        |        |         |         |        |
| K15c   |        |        |        | 0.1967  |         |         |         |        |        |        |         |         |        |
| K15d   | 0.3900 | 0.3488 |        |         |         |         |         |        |        |        |         |         |        |
| K16    |        |        |        |         |         |         | 0.3150  |        | 0.6160 |        | 0.2400  | 0.3938  | 0.0800 |
| K17    |        |        |        |         |         | 0.0338  | 0.0450  | 0.1069 | 1.6800 | 5.1200 | 4.7520  | 6.6000  | 0.4100 |
| K17a   |        |        |        |         |         | 1.2348  | 1.2240  |        |        |        |         |         |        |
| K17b   |        |        |        |         |         | 0.0320  |         |        |        |        |         |         |        |
| K18    |        |        |        | 1.7809  | 3.8400  | 2.3920  | 0.7438  | 0.8190 | 1.4400 |        | 0.5120  |         | 0.1013 |
| K18.1  |        |        |        | 1.4470  | 0.5000  | 1.0238  | 0.5950  |        |        |        |         |         |        |
| K18.2  |        |        |        | 0.0124  |         |         |         |        |        |        |         |         |        |
| K18.3  |        |        |        | 0.0285  |         |         |         |        |        |        |         |         |        |
| K19    |        |        |        | 1.6317  | 0.7200  | 2.5920  | 0.7040  | 0.8663 | 3.7050 |        |         |         | 0.4500 |
| K20    | 1.3260 | 1.6380 | 1.2049 | 1.0368  | 1.0200  | 1.7325  | 0.6660  | 0.1550 | 0.6380 | 1.3800 | 2.4500  | 1.1200  | 2.8050 |
| K20.1  |        |        |        | 0.0502  |         |         |         |        |        |        |         |         |        |
| K21    |        |        |        |         |         |         |         |        |        |        |         | 1.5120  | 0.5400 |
| K21.1  |        |        |        |         |         |         |         |        |        |        |         | 0.2205  |        |
| K22    |        |        |        |         |         |         |         |        |        |        |         | 1.0080  | 0.3990 |
| K23    |        |        |        |         |         |         |         |        |        |        |         | 0.5670  | 0.7020 |
| K24    |        |        |        |         |         |         |         |        |        |        |         | 1.3120  | 0.1800 |
| K25    |        |        |        |         |         |         |         |        |        |        |         | 1.0000  | 0.6825 |
| K26    |        |        |        |         |         |         |         |        |        |        |         | 0.4050  | 1.0200 |
| K26.1  |        |        |        |         |         |         |         |        |        |        |         | 0.1820  | 0.1440 |
| K27    |        |        |        |         |         |         |         |        |        |        |         | 0.1991  | 0.2063 |
| K27.1  | 1.4400 | 1.0563 |        |         |         |         |         |        |        |        |         |         | 0.4257 |
| K27.2  | 0.6750 | 0.1280 |        |         |         |         |         |        |        |        |         |         |        |
| K28    |        |        |        |         |         |         |         |        |        |        |         | 0.5520  | 1.2870 |
| K28.1  |        |        |        |         |         |         |         |        |        |        |         | 0.1974  |        |
| K29    |        |        |        |         |         |         | 0.2916  | 0.3150 | 0.4043 | 0.9900 | 2.9325  | 0.2400  | 0.2552 |
|        |        |        |        |         |         |         |         |        |        |        |         |         | 0.2200 |

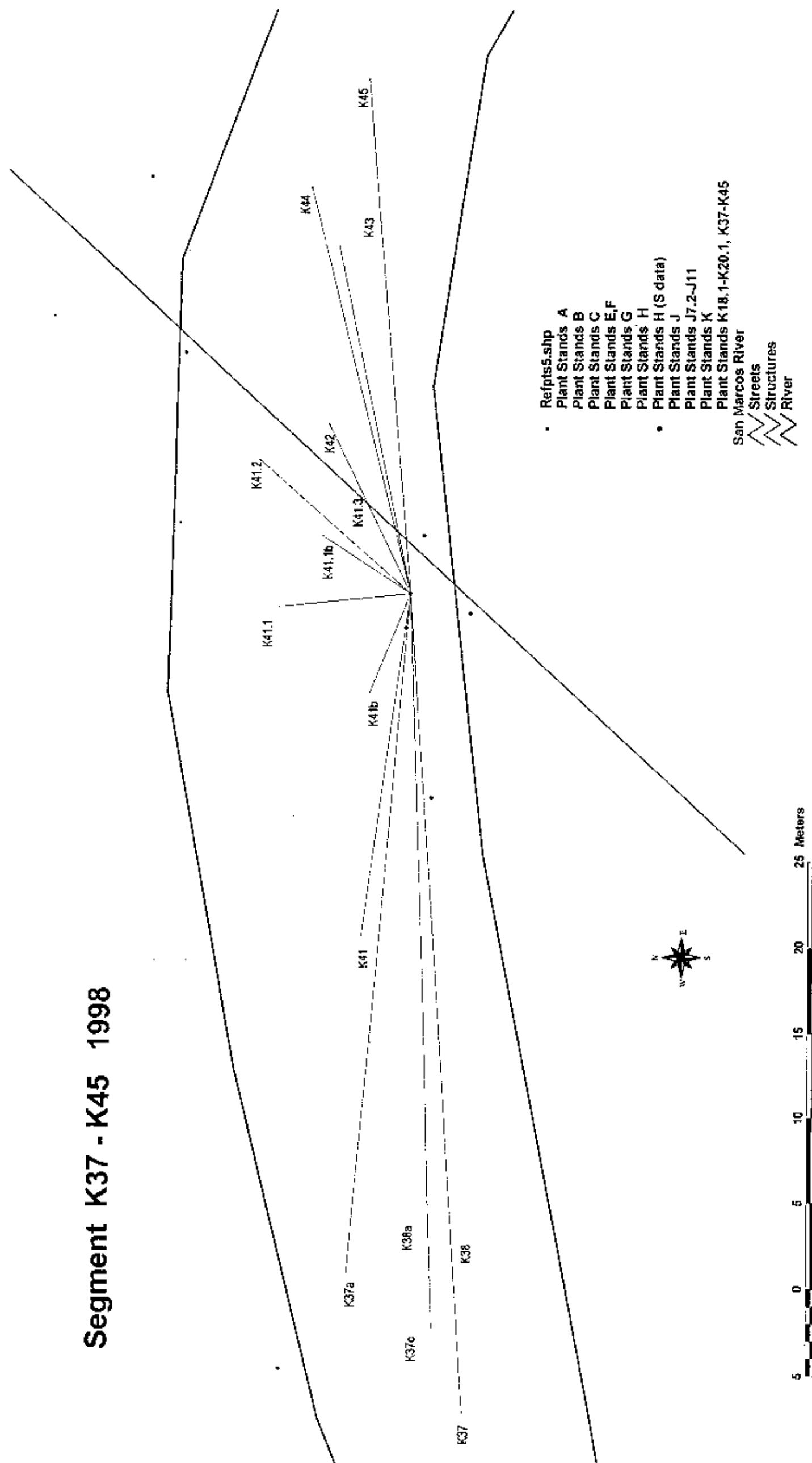
**Texas wild-rice**  
**Aerial Coverage (m<sup>2</sup>) by Stand**  
**1989-2001**

| Stand  | 2001   | 2000   | 1999   | 1998    | 1997    | 1996    | 1995    | 1994    | 1993    | 1992    | 1991    | 1990    | 1989    |
|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| K29a   | -      | -      | -      | -       | -       | -       | -       | -       | -       | -       | -       | -       | 0.1751  |
| K29b   | -      | -      | -      | -       | -       | -       | -       | 0.3220  | 0.1805  | 0.1170  | 0.0520  | -       | -       |
| K30    | -      | -      | -      | -       | -       | 0.4410  | 0.8960  | 0.8400  | 0.6800  | 0.7140  | 0.2182  | 0.2750  | -       |
| K31    | -      | -      | -      | -       | -       | -       | -       | -       | -       | -       | -       | 0.3956  | 0.3420  |
| K32    | -      | -      | -      | -       | -       | -       | -       | -       | -       | 0.9120  | 1.2600  | 0.4872  | 0.2100  |
| K33    | -      | -      | -      | -       | -       | -       | -       | -       | -       | 1.8000  | 0.7200  | 0.8800  | 0.0600  |
| K34    | -      | -      | -      | 1.6331  | 1.3440  | 0.4444  | 0.3150  | 0.6000  | 0.0980  | 0.2600  | 0.7480  | 0.7360  | 0.2200  |
| K35    | -      | -      | -      | 0.4860  | 0.4800  | 2.1462  | 2.6040  | 2.3100  | 1.0395  | 0.9100  | 3.9313  | 1.0450  | 0.1625  |
| K35a   | -      | -      | -      | -       | -       | -       | -       | 0.0034  | 0.2880  | -       | 6.1950  | -       | -       |
| K35b   | -      | -      | -      | -       | -       | -       | -       | -       | 0.6188  | -       | -       | -       | -       |
| K36    | -      | -      | -      | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |
| K36.1  | -      | -      | -      | -       | -       | 0.5570  | 0.8360  | 0.7920  | 0.5320  | 0.6080  | 0.2520  | 0.2125  | 1.3680  |
| K36.2  | -      | -      | -      | 0.4940  | 0.5320  | 0.4500  | 1.0800  | 0.6475  | 0.5063  | 2.0700  | 0.1330  | 0.7979  | -       |
| K36.3  | -      | -      | -      | 3.0150  | 1.7696  | 3.3000  | 2.1160  | 2.7440  | 3.3880  | 0.6460  | 2.1000  | 1.4457  | -       |
| K36.3a | -      | -      | -      | 0.4590  | -       | -       | -       | -       | -       | -       | -       | -       | -       |
| K37    | -      | -      | -      | 5.0820  | 1.3558  | 4.4075  | 0.2400  | 8.8688  | 7.9625  | 5.6210  | 6.1380  | 7.5600  | 1.0725  |
| K37a   | -      | -      | -      | 0.7600  | -       | 5.3750  | -       | -       | 0.1854  | 2.8000  | 2.1600  | 0.6120  | -       |
| K37b   | -      | -      | -      | -       | -       | -       | 0.8320  | -       | -       | -       | -       | -       | -       |
| K37c   | -      | -      | -      | 6.3000  | 3.9600  | -       | 4.4160  | -       | -       | -       | -       | -       | -       |
| K38    | -      | -      | -      | 9.6135  | 2.7840  | 16.0813 | 3.8000  | 3.3120  | 4.0079  | 1.7820  | 6.4680  | 7.6046  | 2.5960  |
| K38a   | 0.3150 | 0.8775 | 0.3600 | 1.7360  | 2.1945  | 1.1550  | -       | -       | -       | -       | -       | -       | -       |
| K39    | -      | -      | -      | -       | -       | 1.9800  | -       | 1.9890  | 3.3120  | -       | -       | -       | -       |
| K40    | -      | -      | -      | -       | -       | 1.9635  | -       | 2.0300  | 1.2623  | 0.6300  | 3.2490  | 0.7056  | 3.1825  |
| K41    | -      | -      | -      | 70.5815 | 25.2720 | 41.9520 | 22.7960 | 39.9165 | 34.8075 | 1.6000  | 0.9520  | 0.4051  | 1.6875  |
| K41a   | -      | -      | -      | -       | 5.4150  | -       | 1.3920  | -       | -       | 16.7400 | 34.8300 | 50.5138 | 19.2500 |
| K41b   | -      | -      | -      | 1.6660  | 1.0400  | 0.5058  | -       | -       | -       | -       | -       | -       | -       |
| K41d   | 0.1523 | 1.3571 | -      | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |
| K41.1  | 0.5500 | 1.0500 | -      | 11.8950 | 7.5799  | 10.7250 | 7.7520  | 8.8350  | 5.3200  | 4.9400  | 6.7200  | 8.7849  | -       |
| K41.2  | -      | -      | -      | -       | -       | -       | 2.8050  | 2.1120  | -       | 1.5600  | -       | 2.3250  | -       |
| K41.1a | -      | -      | -      | -       | -       | 0.8960  | -       | -       | -       | -       | -       | -       | -       |
| K41.1b | -      | -      | -      | 0.8775  | -       | 0.2625  | -       | -       | -       | -       | -       | -       | -       |
| K41.2  | -      | -      | -      | 5.0750  | -       | 2.2620  | -       | -       | -       | -       | -       | -       | -       |
| K41.3  | -      | -      | -      | 1.4175  | -       | -       | -       | -       | -       | -       | -       | -       | -       |
| K41.4  | 1.1310 | 0.9620 | 0.0420 | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |
| K42    | -      | -      | -      | 25.2350 | 16.5825 | 15.9863 | 2.3888  | 11.0633 | 12.0060 | 8.6800  | 5.7120  | 10.0832 | 1.6875  |
| K42a   | -      | -      | -      | -       | 0.2200  | -       | 1.3680  | -       | -       | -       | -       | -       | -       |
| K42b   | -      | -      | -      | -       | -       | 1.3913  | -       | -       | -       | -       | -       | -       | -       |
| K42c   | -      | -      | -      | -       | -       | 1.2740  | -       | -       | -       | -       | -       | -       | -       |

**Texas wild-rice**  
**Aerial Coverage (m<sup>2</sup>) by Stand**  
**1989-2001**

| Stand | 2001 | 2000 | 1999 | 1998   | 1997   | 1996   | 1995   | 1994   | 1993   | 1992   | 1991   | 1990   | 1989   |
|-------|------|------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| K43   |      |      |      | 3.8468 | 2.6320 | 1.5840 | 1.8400 | 0.5200 | 1.2015 | 1.0800 | 2.2950 | 0.9405 | 3.5910 |
| K44   |      |      |      | 7.3100 | 5.6700 | 6.0060 | 1.9500 | 0.9570 | 3.5105 | 0.4800 | 2.1760 | 0.6815 | 0.4400 |
| K45   |      |      |      | 3.0160 | 4.0906 | 0.8670 | 2.0520 | 0.8280 | 0.9852 | 0.4480 | 4.4880 | 3.2969 | 0.5425 |
| K47   |      |      |      |        |        |        |        |        |        |        |        | 0.7688 |        |
| K47.1 |      |      |      |        |        |        |        |        |        |        |        |        |        |
| K47.2 |      |      |      |        |        |        |        |        |        |        | 1.2350 |        |        |
| K48   |      |      |      |        |        |        |        | 0.0090 |        |        |        |        |        |
| L0    |      |      |      |        |        |        |        |        |        |        |        |        |        |
| L0.1  |      |      |      |        | 1.8686 | 1.6000 |        | 1.3200 |        |        |        |        |        |
| L1    |      |      |      |        |        |        |        |        |        |        |        |        |        |
| M1    |      |      |      |        |        |        |        |        |        |        |        |        | 0.5250 |
| X1    |      |      |      |        |        |        |        |        |        |        |        |        | 1.0370 |

# Segment K37 - K45 1998



**Segment K1a - K10c1 1999**

