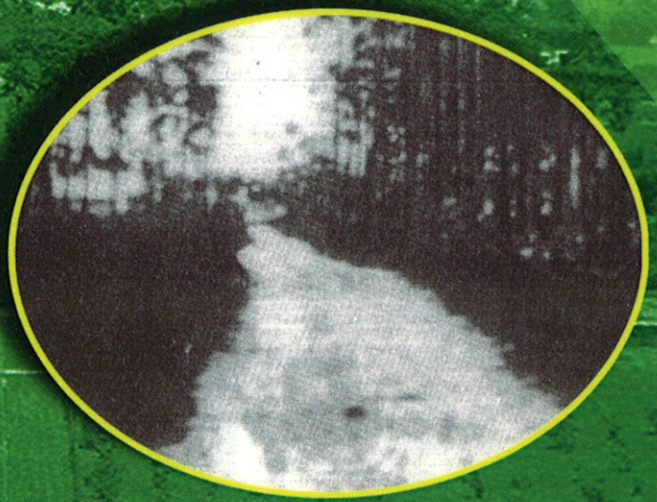
GEOTECHNICAL REPORT
PROJECT DEVELOPMENT & ENVIRONMENTAL STUDY

SR 997 / Krome Avenue /SW 177 Avenue (South)
from SW 296th Street to SW 136th Street

F. M. No: 249614-4-22-01

Krome Avenue Today



Krome Avenue 1900's

Prepared for:

Florida Department of Transportation
District VI

Submitted by:

URS CORPORATION SOUTHERN
7650 Corporate Center Drive
Suite 400
Miami, FL 33126-1220

April 2004

URS

April 16, 2004

Florida Department of Transportation - District VI
1000 NW 111th Avenue, Room 6103
Miami, Florida 33172

Attention: Monica Diez, P.E.
Project Manager
Environmental Management Office

Reference: **Draft Geothecnical Report Submittal**
Corridor Analysis Report Submittal
Krome Avenue South PD&E Study
From SW 296th Street to SW 136th Street
Miami-Dade County
FM# 249614-4-22-01

Dear Ms. Diez;

Enclosed please find the ~~Draft~~ Final Geothecnical Report and the Corridor Analysis Report for the above referenced project.

Should you have any questions regarding this submittal, please contact me at (305) 514-2419.

Sincerely,

URS Corporation

Julio Bouclé, P.E.
Project Manager

CC: Mike Ciscar, P.E., TCG
Project File

URS Corporation
7650 Corporate Center Drive, Suite 400
Miami, Florida 33126-1220
Tel: 305.262.7466
Fax: 305.261.4017

REPORT OF A SOIL SURVEY - ROADWAY

SR 997/KROME AVENUE PD&E STUDY
FROM SW 296TH STREET TO SW 136TH STREET

FLORIDA DEPARTMENT OF TRANSPORTATION
DISTRICT 6
MIAMI-DADE COUNTY, FLORIDA
FM No. 249614-4-22-01

-Prepared for -

URS CORPORATION
7650 Corporate Center Drive, Suite 400
Miami, Florida 33126

-Prepared by -

HR ENGINEERING SERVICES, INC.
14038 NW 82nd Avenue, # 5
Miami Lakes, Florida 33016

HRES Project No. HR04-228R

April 5, 2004

April 5, 2004

URS Corporation
7650 Corporate Center Drive, Suite 400
Miami, Florida 33126

Attention: Mr. Julio Boucle, P.E.
Project Manager

Subject: Report of a Soil Survey – Roadway
SR 997/Krome Avenue PD&E
From SW 296th Street to SW 136th Street
Miami, Florida
Florida Department of Transportation – District 6
FM No. 249614-4-22-01
HRES Project No. HR04-228R

Dear Julio:

HR Engineering Services, Inc. (HRES) is pleased to provide this Geotechnical Report of a Soil Survey for the planned PD&E Study. This report presents our understanding of the project, outlines our exploratory procedures, documents the field testing, and provides information of the subsurface conditions encountered at the project location and preliminary recommendations for reconstruction of the existing roadway.

We have enjoyed assisting you on this project and look forward to serving as your geotechnical consultant on the remainder of this project and on future projects. If you have any questions concerning this report, please call our office at (305) 828-6746.

Sincerely,

HR ENGINEERING SERVICES, INC.

Hernando R. Ramos, P.E.
Principal Geotechnical Engineer
Florida Registration 42045

Distribution: Addressee (3)
File (1)

4/5/04

14038 N.W. 82nd Avenue, Unit 5
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1.0 INTRODUCTION

The geotechnical exploration conducted by HRES consisted of 50 auger borings and 17 constant head percolation tests drilled staggered along the existing roadway. The purpose of the field exploration was to obtain additional information about the subsurface conditions in the area of the roadway reconstruction and provide percolation test results and preliminary construction recommendations.

The report also compiled all the geotechnical studies previously performed along sections of the roadway alignment.

Field Services Performed by HRES

The following is a summary of the field explorations performed by HRES:

- A total of 50 auger borings, each to a depth of 5 feet were performed staggered along the existing roadway alignment in areas with no previous field exploration. The soil/rock layers encountered during the drilling were visually classified. The Soils Information Table is shown in Appendix A.
- Performed constant head percolation testing at 17 locations at two depth intervals: from 0 to 10 feet and from 10 to 15 feet.
- A brief description of our field testing procedures.

Field Services Previously Performed

The following is a summary of the field explorations performed by FDOT and Geosol:

- FDOT performed a total of 279 auger borings to depths ranging from 5 to 15 feet. The soil/rock layers encountered during the drilling were visually classified and presented on the Soils Information Tables in Appendix A.
- FDOT performed constant head percolation testing at 55 locations as follows: 39 percolation tests from 0 to 10 feet, 12 tests at the depth interval of 10 to 15 feet and 4 tests at the depth interval of 15 to 20 feet.

- Geosol performed a total of 13 test borings to depths ranging from 6 to 8 feet. The soil/rock layers encountered during the drilling were visually classified and presented on the Test Boring Records in Appendix A.
- Geosol performed constant head percolation testing at 5 locations as follows: 5 percolation tests from 0 to 10 feet and 5 tests at the depth interval of 10 to 15 feet.

Laboratory Testing

HRES did not perform any laboratory testing for this study. The laboratory testing conducted by FDOT and Geosol is included in this report (Appendix B). Appendix B also contains summary tables of environmental corrosion reports and roadway soil surveys.

Geotechnical Issues

- A general review of the area and site geologic conditions.
- A general review of the existing surface features and site conditions.
- Soils information tables.
- Summary of percolation test results to be used for drainage design.
- Preliminary construction recommendations.

2.0 PROJECT INFORMATION

2.1 GENERAL

Project information was provided to us by various members of the design team. Additional information has been provided in meetings and telephone conversations.

During our geotechnical study, we have been furnished with the following project-related plans and information:

- Site Plans, Sheets 1 through 40 – SR 997/Krome Avenue, from SW 296th Street to SW 136th Street PD&E Study
  Prepared by: URS Corporation
  Scale: 1": 100'
  Undated

2.2 PROJECT DESCRIPTION

The Florida Department of Transportation (FDOT), District 6 is planning the reconstruction of SR 997/Krome Avenue, from SW 296th Street to SW 136th Street. The existing roadway consists of a two-lane, two-way roadway. The plans may include the widening of the roadway to accommodate four lanes.

3.0 FIELD EXPLORATION AND LABORATORY TESTING

3.1 GENERAL

The primary purpose of this phase of field exploration was to generally define the subsurface conditions present at the proposed roadway reconstruction.

The auger borings and percolation tests planed for this project were performed by HRES. The soil/rock conditions encountered during drilling were classified and the results are reported in Appendix A.

Approximate boring locations are provided in the Summary of Auger Borings and Percolation Test Locations in Appendix A. The Soils Information Tables in Appendix A summarize the approximate boundary between soil/rock types. In some instances, the transition between material types may be gradual. A brief description of the exploratory sampling techniques used is presented in the Field Procedures section of Appendix A. A discussion of the subsurface conditions encountered is provided in Section 4.2 of this report.

3.1.1 Field Exploration

A total of 50 auger borings were performed for the proposed roadway reconstruction. The materials obtained from the auger borings were classified and reported in the Soils Information Table in Appendix A. The accuracy of the subsurface information provided during the drilling of the auger borings should be considered approximate due to the drilling method used.

3.1.2 Percolation Testing

A total of 17 percolation tests were performed at selected locations. The percolation tests were performed in general accordance with the test procedures outlined in Appendix A. The hydraulic conductivity values ranged as follows:

0 to 10 feet: 1.6E-05 to 2.1E-03 cfs/ft^2-ft. of head.
10 to 15 feet: 4.6E-05 to 6.1E-03 cfs/ft^2-ft. of head.

A summary of the percolation results is presented in Appendix A.

3.2 LABORATORY TESTING

FDOT and Geosol conducted laboratory testing on soil and water samples retrieved at selected locations along the roadway alignment. The laboratory testing included environmental corrosion classification and soil mechanical analyses. All the laboratory data is presented in Appendix B in addition to Roadway Soil Survey tables.

4.0 SITE AND SUBSURFACE CONDITIONS

4.1 SITE CONDITIONS

A geotechnical engineer observed the site conditions during the period of January to February, 2004. We observed the existing roadway conditions. Sections of the roadway appear in fair to poor conditions.

4.2 SUBSURFACE CONDITIONS

4.2.1 General

The subsurface conditions encountered by the auger borings are presented in the Soils Information Tables in Appendix A.

4.2.2 Geologic Conditions

The project is located on the southern flank of the Florida Plateau, a stable, carbonate platform on which thick deposits of limestone, dolomites, and evaporites have accumulated. In the study, the upper 200 feet of this platform is composed predominately of limestone and quartz sand. The sediments were deposited during several glacial and interglacial stages during the Pleistocene Epoch.

Within the explored depths of the roadway study, one distinct geological formation was encountered below the fills and organic silty layers. This formation is The Miami Limestone Formation.

4.2.3 Miami Limestone

The Miami Limestone underlies the fills and organic silty layers. The Miami Limestone can be described as a soft to hard tan to white porous to very porous fossiliferous quartz sandy fine-grained slightly oolitic limestone. The solution channels in the limestone may be up to 2 inches in diameter at some locations, are filled with quartz fine sand and uncemented calcareous materials. The limestone varies in both thickness and competency within the investigated area.

The Miami Limestone was deposited in a shallow near-shore marine carbonate bank environment. Spherical carbonate sand grains called oolites formed and were deposited in this environment. Near shore, processes transported quartz sand into the area and reworked some of the carbonate material. Encrusting organisms called bryozoans were locally abundant and formed patches on the substrate. After sea level receded, the carbonate deposit was exposed to fresh water and the cementation process was initiated. The degree of cementation, and therefore the competency of the rock, was influenced by both the abundance and the type of calcareous material in the original deposit.

4.2.4 Generalized Subsurface Conditions Encountered Along the Alignment

A total of three different layers of materials were observed during the drilling of the auger borings. Stratum 1 consists of silty fine sand with traces or some limerock. Stratum 2 consists of sandy silt. Stratum 3 is the Miami Limestone Formation.

4.2.5 Groundwater Conditions

The groundwater levels in the auger borings and percolation tests were measured at the time of drilling. Groundwater levels in the boreholes typically ranged from 3.5 to 7.0 feet. Fluctuation in the observed groundwater levels should be expected due to seasonal climatic changes, construction activity, rainfall variations, surface water runoff, and other site-specific factors. Since groundwater level variations are anticipated, design drawing, and specifications should accommodate such possibilities and construction planning should be based on the assumption that variations will occur.

5.0 PRELIMINARY CONSTRUCTION RECOMMENDATIONS

5.1 BASIS FOR RECOMMENDATIONS

The following construction recommendations are based upon our understanding of the conceptual design information available at the writing of this report and the data gathered during our subsurface exploration. The stratification of the subsurface materials underlying the site may vary within even short lateral distances; therefore, any subsurface condition encountered which differs from those documented in this study should be reported to us so that our recommendations can be reviewed.

5.2 SUITABILITY OF IN-SITU MATERIALS

Stratum 1. – This Stratum consists of silty fine sand with traces to some limerock (fill, A-2-4). This material appears suitable for use in the embankment when utilized in accordance with FDOT Index 505. It can not be used as stabilized subgrade or base materials.

Stratum 2 – This Stratum consists of sandy silt (A-4). This material is not suitable as structural fill or as embankment material and shall be removed in accordance with FDOT Index 500 if encountered within 4 feet from the bottom of the base.

Stratum 3 – This Stratum consists of the Miami Limestone Formation and shall remain in place.

5.3 CONSTRUCTION PLANS AND SPECIFICATIONS REVIEW

It is recommended that this office be provided the opportunity to make a general review of the earthwork plans and special provisions prepared from the recommendations presented in this report. We would then suggest any modifications so that our recommendations are properly interpreted and implemented.

APPENDIX A:

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FIELD EXPLORATION PLANS	A-2 THRU A-41
SUMMARY OF AUGER BORINGS AND PERCOLATION TEST LOCATIONS – PERFORMED BY HRES	A-2 THRU A-43
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SOILS INFORMATION TABLE – PERFORMED BY FDOT: STA. 239+40 TO STA. 265+00	A-48 THRU A-51
SOILS INFORMATION TABLE – PERFORMED BY FDOT: STA. 223+00 TO STA. 250+00	A-52 THRU A-54
SOILS INFORMATION TABLE – PERFORMED BY FDOT: STA. 478+40 TO STA. 504+00	A-55 THRU A-58
SOILS INFORMATION TABLE – PERFORMED BY FDOT: STA. 531+00 TO STA. 557+00	A-59 THRU A-62
SOILS INFORMATION TABLE – PERFORMED BY FDOT: STA. 585+00 TO STA. 611+00	A-63 THRU A-66
SOILS INFORMATION TABLE – PERFORMED BY FDOT: STA. 293+00 TO STA. 768+00	A-67 THRU A-82
TEST BORING RECORDS – PERFORMED BY GEOSOL: STA. 745+00 TO STA. 769+00	A-83 THRU A-95
SUMMARY OF PERCOLATION TEST RESULTS – PERFORMED BY HRES: STA. 225+40 TO STA. 740+00	A-96 AND A-97
SUMMARY OF PERCOLATION TEST RESULTS – PERFORMED BY FDOT: STA. 238+40 TO STA. 610+00	A-98 THRU A-102
SUMMARY OF PERCOLATION TEST RESULTS – PERFORMED BY FDOT: STA. 223+40 TO STA. 248+00	A-103 THRU A-105
SUMMARY OF PERCOLATION TEST RESULTS – PERFORMED BY GEOSOL: STA. 305+10 TO STA. 759+40	A-106 AND A-107
SUMMARY OF PERCOLATION TEST RESULTS – PERFORMED BY FDOT: STA. 302+84 TO STA. 358+65	A-108 THRU A-112
FIELD PROCEDURES	A-113

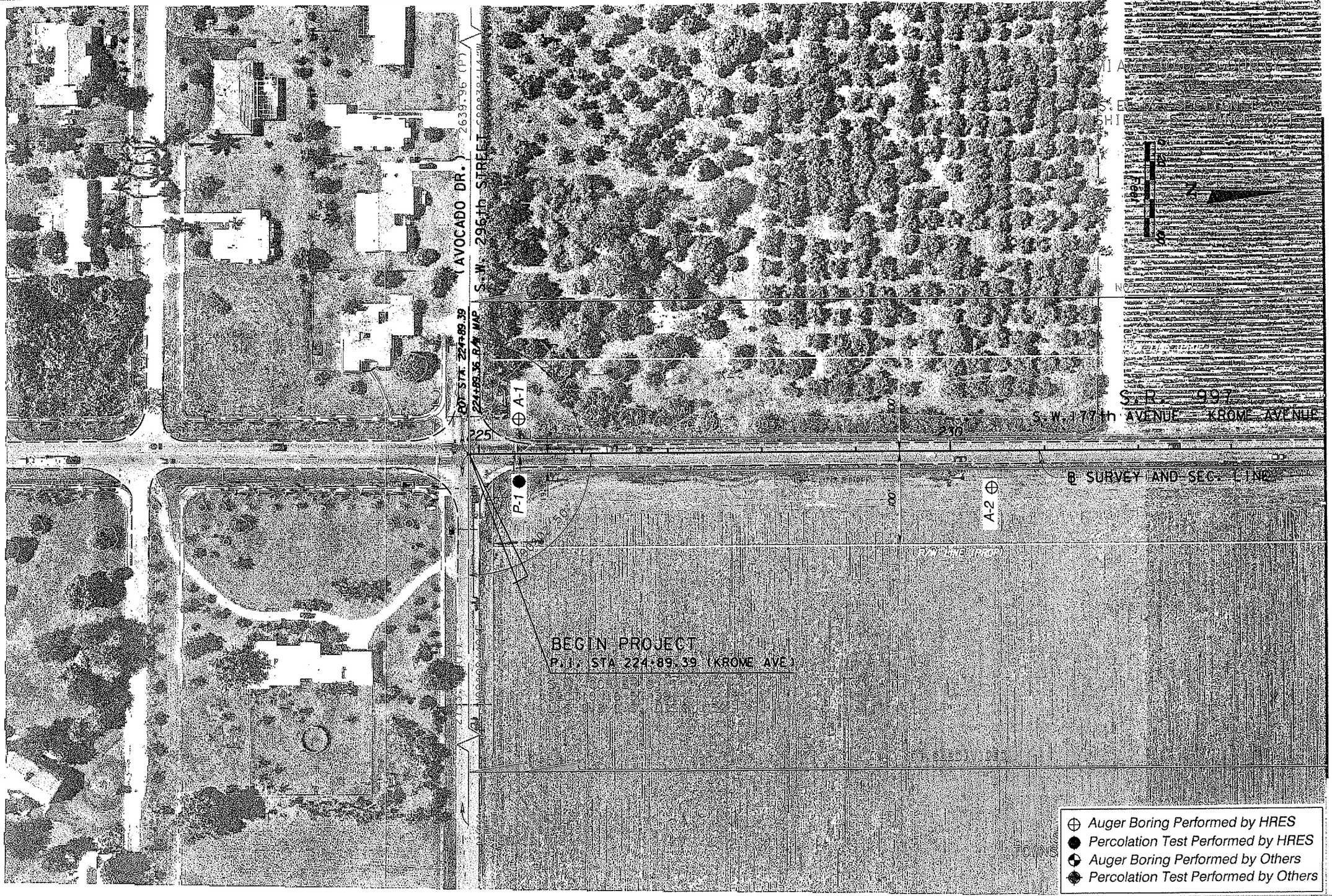
SR 997/KROME AVENUE PD&E STUDY
FROM SW 296th TO SW 136th STREETS

FDOT – DICTRICT 6

HRES
HR Engineering Services, Inc.

SITE LOCATION MAP A-1

DRAWN BY: H.R.R	DATE: 4/05/04
Project No: HR04-228R	SCALE: NTS



REVISIONS			
DATE	BY	DESCRIPTION	DATE

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URS
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Miami, Florida, 26331-1220
Ph : (305) 262-7466 - Fax : (305) 261-4017

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-2

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MATCH LINE STA. 234+00.00

MIAMI-DADE COUNTY

S.E. 1/4 SECTION 11
TOWNSHIP 57 S., RANGE 38 E.

0 30 60 Feet

N

NOT SUBDIVIDED

S.R. 9
S.W. 177th AVENUE

235

245

N 0°54'01" W

N 0°54'01" W

S.W. 293rd STREET

S.W. 292nd STREET

N. 422,645.550
E. 825,487.486

A-3

MATCH LINE STA. 248+00.00

⊕ Auger Boring Performed by HRES
● Percolation Test Performed by HRES
◐ Auger Boring Performed by Others
◈ Percolation Test Performed by Others

REVISIONS			
DATE	BY	DESCRIPTION	DATE

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

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SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO.
A-3

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MATCH LINE STA. 248+00.00

MATCH LINE STA. 262+00.00

KROME AVENUE

SURVEY AND SEC. LINE

P.I. STA 251+56.39 (KROME AVE.)

N 425,378.9300
E 828,446.6857

N 0°47'59" W

S.W. 288th STREET (BISCAYNE DR.)

2656.66'(P)

N89°06'41"E

TOWNSHIP 57 S. SECTION 7
TOWNSHIP 57 S. RANGE 38 E.

R/W LINE (PROP.)

251+56.39 R/W MAP

S.W. 287th STREET

S.W. 286th STREET

2713.83'(P)

N89°06'41"E

S.W. 277th AVE

TOWNSHIP 57 S. SECTION 12
TOWNSHIP 57 S. RANGE 38 E.

⊕ Auger Boring Performed by HRES
● Percolation Test Performed by HRES
⊕ Auger Boring Performed by Others
◆ Percolation Test Performed by Others

REVISIONS			
DATE	BY	DESCRIPTION	DATE

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STATE OF FLORIDA
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KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-4

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MATCH LINE STA. 262+00.00

MATCH LINE STA. 276+00.00

TOWNSHIP 57 S., RANGE 38 E.

MIAMI-DADE COUNTY

NO. SUBDIVIDED

EXISTING R/W LINE

(O.R.B. 7997, PG. 38)

EXISTING R/W LINE

(O.R.B. 7997, PG. 38)

P.I. STA. 270+05.12 (KRO

Δ 100°09'42" RT.

N 425,622.630

E 824,480.070

S.R. 9

275

N 0°47'59" W

E. - KROME AVENUE

S.W. 177th AVENUE - KROME AVE

A-4

A-5

S.W. 282nd STREET

R/W LINE (PROP.)

EXISTING R/W LINE

(O.R.B. 7997, PG. 38)

N 425,366.040

E 824,480.070

N 0°47'59" W

E. SURVEY AND SEC. LINE

NO. SUBDIVIDED

Auger Boring Performed by HRES

Percolation Test Performed by HRES

Auger Boring Performed by Others

Percolation Test Performed by Others

REVISIONS			
DATE	BY	DESCRIPTION	DATE

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KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-5

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MATCH LINE STA. 276+00.00

MATCH LINE STA. 290+00.00

S.W. 280th ST.

S.W. 280th ST. (WALDEN DR.) EXIST. R/W

EXISTING R/W LINE

R/W LINE (PROP.)

N 427,294.7718
E 828,402.4940

A-6

P-2

997

280

285

N 0°38'15" W

℄ SURVEY AND SEC. LINE

S.W. 280th STREET

CANAL C-103 (RIGHT OF WAY)

A-7

NOT SUBDIVIDED

0 20 40 Feet

N

⊕ Auger Boring Performed by HRES
● Percolation Test Performed by HRES
◒ Auger Boring Performed by Others
◍ Percolation Test Performed by Others

REVISIONS			
DATE	BY	DESCRIPTION	DATE

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
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SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-6

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MATCH LINE STA. 290+00.00

MATCH LINE STA. 304+00.00

0 50 100 Feet

N

A-8

295

S.W. 177th AVENUE - KROME AVENUE

℄ SURVEY AND SEC. LINE

N0°38'15"W

R/W LINE (PROP.)

R/W LINE (PROP.)

R/W LINE PER FDOT MAINTENANCE MAP SEC. 87150-2532

EXISTING R/W

NOT SUBDIVIDED

TOWNSHIP 57 SOUTH - RANGE 39 EAST

MIAMI-DADE COUNTY

- ⊕ Auger Boring Performed by HRES
- ● Percolation Test Performed by HRES
- ⊕ Auger Boring Performed by Others
- ● Percolation Test Performed by Others

REVISIONS			
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SHEET NO. A-7

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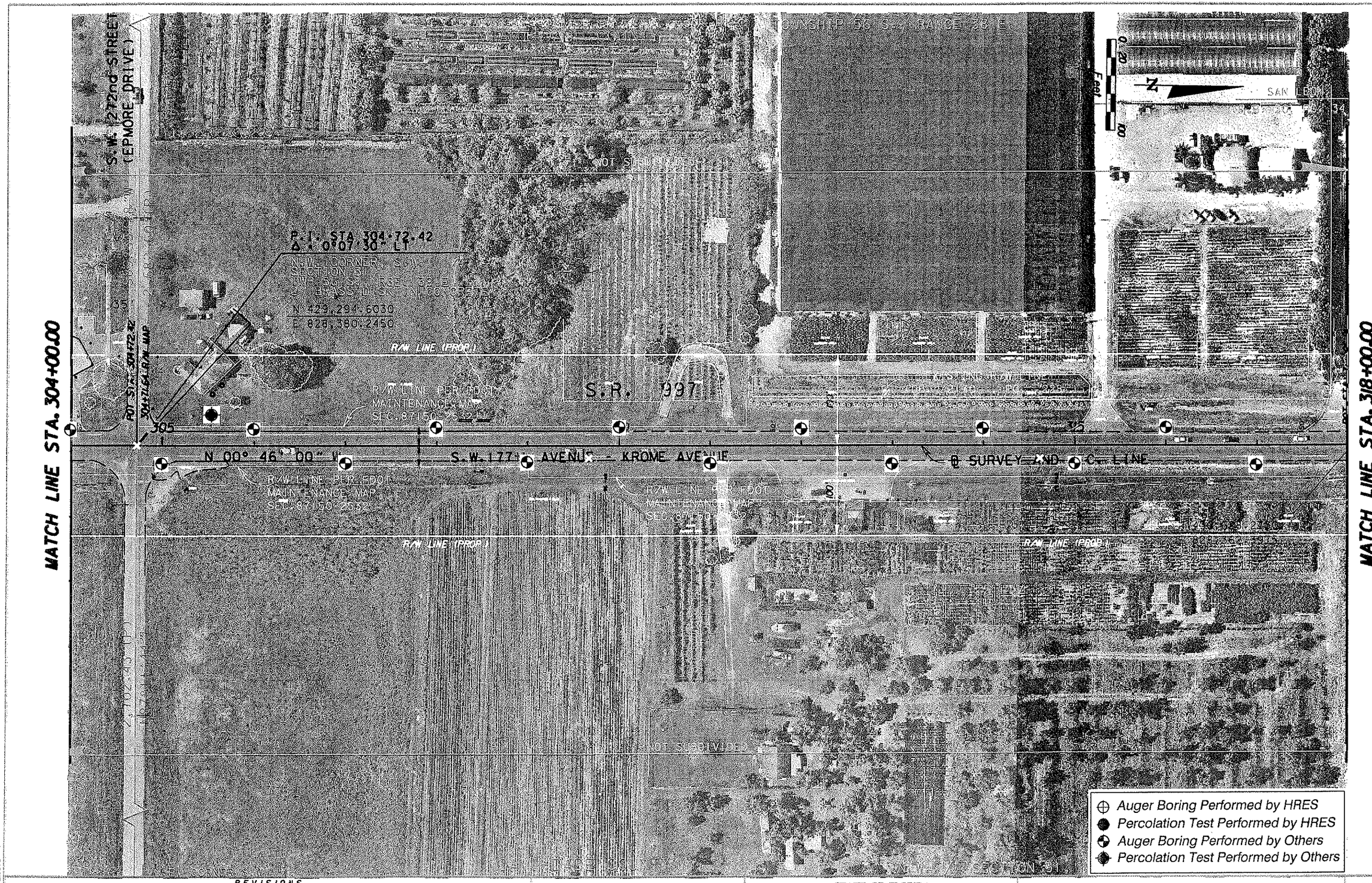

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	2496I4-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-8

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MATCH LINE STA. 318+00.00

MATCH LINE STA. 332+00.00

S.W. 268th STREET

S.W. 264th STREET

SAN LEON (P.B. 50, PG. 34)

DB. 2092, PG. 347
DB. 2092, PG. 349
DB. 2092, PG. 351
DB. 2092, PG. 353

P.I. STA. 331+40.00 (KROME AVE.)
Δ = 0°08'54" RT

POT STA. 331+40.00
POT STA. 331+39.76 R/W MAP

S.W. 177th AVENUE — KROME AVENUE — N00°46'00"W — SURVEY AND SEC. LINE

R/W LINE (PROP.)

R/W LINE (PROP.)

N88°54'08"E 2,716.68'(P)

NOT SUBDIVIDED

A-9 ⊕

A-10 ⊕

A-11 ⊕

⊕ Auger Boring Performed by HRES
● Percolation Test Performed by HRES
◒ Auger Boring Performed by Others
◆ Percolation Test Performed by Others

REVISIONS			
DATE	BY	DESCRIPTION	DATE

HRES
HR ENGINEERING SERVICES, INC.
14038 NW 82nd Avenue, # 5
Miami Lakes FL 33016 - (305) 828-6746

URS
7650 Corporate Center Drive, Suite 400
Miami, Florida, 26331-1220
Ph : (305) 262-7466 - Fax : (305) 261-4017

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-9

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MATCH LINE STA. 332+00.00

MATCH LINE STA. 346+00.00

S.R. 997

S.W. 177th AVENUE — KROME AVENUE

N00°37'03"W

RAW LINE (PROP.)

P-3

A-13

A-12

335

340

345

⊕ Auger Boring Performed by HRES
● Percolation Test Performed by HRES
◔ Auger Boring Performed by Others
◍ Percolation Test Performed by Others

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DEPARTMENT OF TRANSPORTATION

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SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-10

MATCH LINE STA. 346+00.00

MATCH LINE STA. 360+00.00

SURVEY AND SEC. LINE

N 00° 37' 03" W

S.W. 177th AVENUE

KROME AVENUE

N 00° 48' 5

SW 256th ST.

PLUMMER DRIVE

POT STA. 358+18.99 R/W MAP

N89°30'52"E

N89°10'94"E

R/W LINE (PROP.)

EXIST. R/W LINE

EXIST. LINE

350

355

S. 1/4 SECTION 3 MIAMI-DADE

- ⊕ Auger Boring Performed by HRES
- ● Percolation Test Performed by HRES
- ◐ Auger Boring Performed by Others
- ◈ Percolation Test Performed by Others

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-11

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-12

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MATCH LINE STA. 374+00.00

MATCH LINE STA. 388+00.00

NOT SUBDIVIDED

SECTION 30

SECTION 31

S.W. 248th STREET (COCONUT PALM DRIVE)

R/W LINE (TYP.)

P.I. STA. 384+77.45 (KRO
Δ = 0°32'08" RT. (P)

POT STA. 384+75.29 R/W MAP

N89°23'07"E 2,672.23'

N 437,29[illegible].9730
E 828,27[illegible].9260

B SURVEY AND SEC. LINE

375 380 385

N 00° 48' 50" W

N00°48'50"W

N 00° 17' 09" W

A-14 A-15 A-16

P-4

Auger Boring Performed by HRES
Percolation Test Performed by HRES
Auger Boring Performed by Others
Percolation Test Performed by Others

REVISIONS			
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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-13

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S.E. 1/4 SECTION 24
TOWNSHIP 56 S., RANGE 38 E.

JE AVE)

S.R. 997

390 395 400

℄ SURVEY AND SEC. LINE

S.W. 177th AVENUE - KROME AVENUE

℄ SURVEY AND SE

A-17 ⊕

P-5 ●

62.5

100

8

7

245th TERRACE S.W.

S.W. 177th AVENUE

ROW LINE (TYP.)

NOT SUBDIVIDED

S.W. 1/4 SECTION 9,
TOWNSHIP 56 S., RANGE 39 E.

COUNTY OF STATES OF FLORIDA

MATCH LINE STA. 388+00.00

MATCH LINE STA. 402+00.00

0 20 40 Feet

N

⊕ A-18

⊕ Auger Boring Performed by HRES
● Percolation Test Performed by HRES
◒ Auger Boring Performed by Others
◉ Percolation Test Performed by Others

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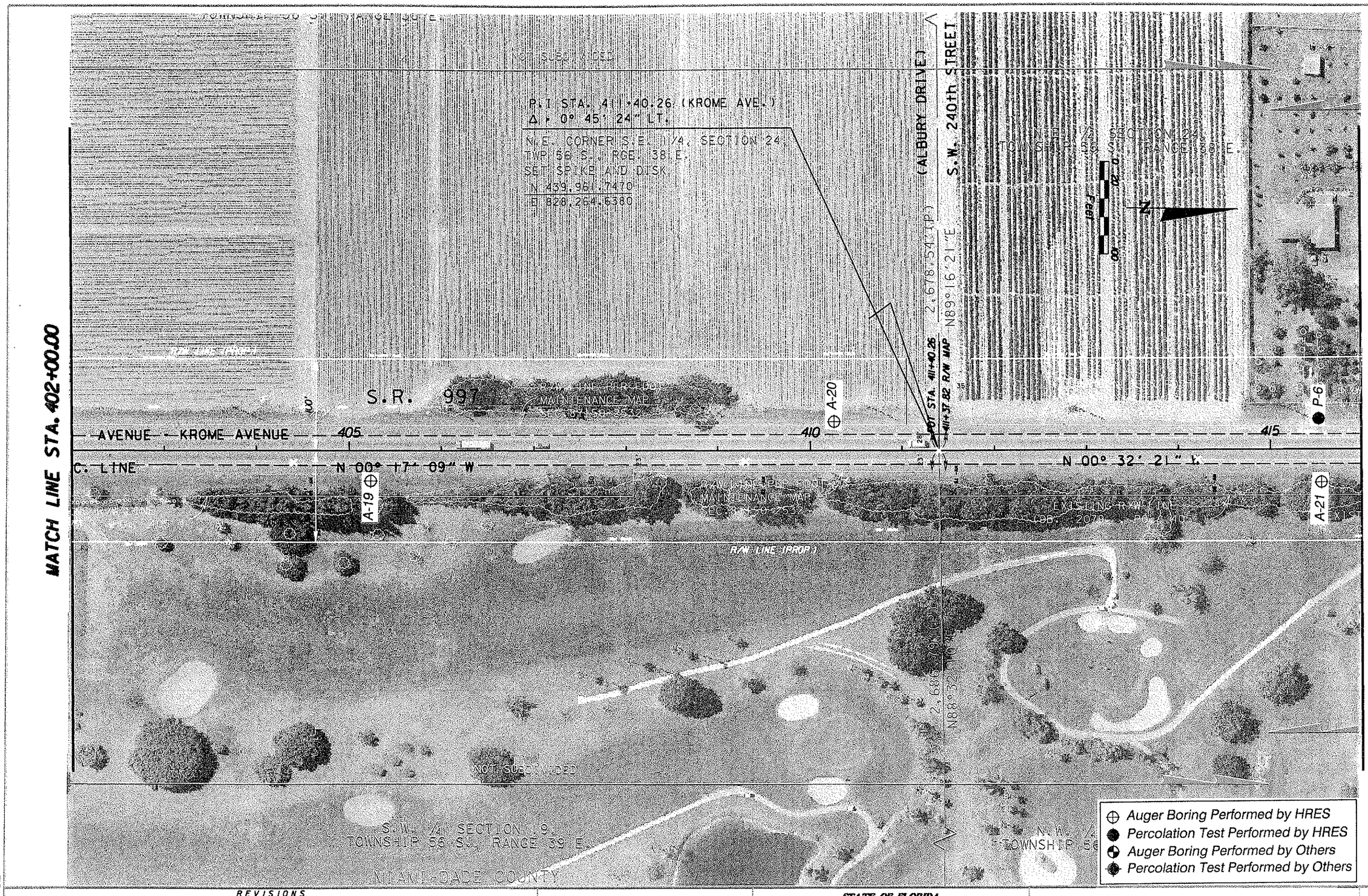
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-14



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SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-15

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MATCH LINE STA. 416+00.00

MATCH LINE STA. 430+00.00

N.E. 1/4 SECTION 24
TOWNSHIP 56 S. RANGE 38 E.

NOT SURVEYED

0 20 40 Feet

S.R. 997

420 425

N 00° 32' 21" W

SURVEY AND SEC. LINE

S.W. 177th AVENUE - KROME AVENUE

S.W. 236 STREET

A-22

A-23

SEE FDOT MAINTENANCE MAP SEC. 87150-2512

TOWNSHIP 56 S. RANGE 37

⊕ Auger Boring Performed by HRES
● Percolation Test Performed by HRES
Auger Boring Performed by Others
Percolation Test Performed by Others

REVISIONS			
DATE	BY	DESCRIPTION	DATE

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-16

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TOWNSHIP 56 S., RANGE 38 E.

MATCH LINE STA. 430+00.00

MATCH LINE STA. 444+00.00

S.R. 997

S.W. 177th AVENUE - KROME AVENUE

EXISTING R/W LINE

R/W LINE (PROP.)

O.R.B. 12952, Pg. 4043
R. DE. 2082, Pg. 540
R. DE. 2026, Pg. 1951

N 00° 32' 21" W

N 00° 43' 19" W
℄ SURVEY AND SEC. LINE

P-7

A-24

A-25

N88°58'28"E 2,676.12'(P)

P.I. STA. 438+42.92 KROME AVE.
Δ = 0° 11' 11" LT.

N.E. CORNER N.W. 1/4
SEC. 19
TWP. 56 S., RGE. 38 E.
FLA. EAST
N 442,664.2810
E 828,239.2050

POT. STA. 438+42.92 R/W LINE

SEABOARD COAST LINE RAILROAD RIGHT OF WAY

S.W. 232nd STREET (SILVER PALM DRIVE)

N.W. 1/4 SECTION 19
TOWNSHIP 56 S., RANGE 39 E.

⊕ Auger Boring Performed by HRES
● Percolation Test Performed by HRES
◐ Auger Boring Performed by Others
◉ Percolation Test Performed by Others

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-17

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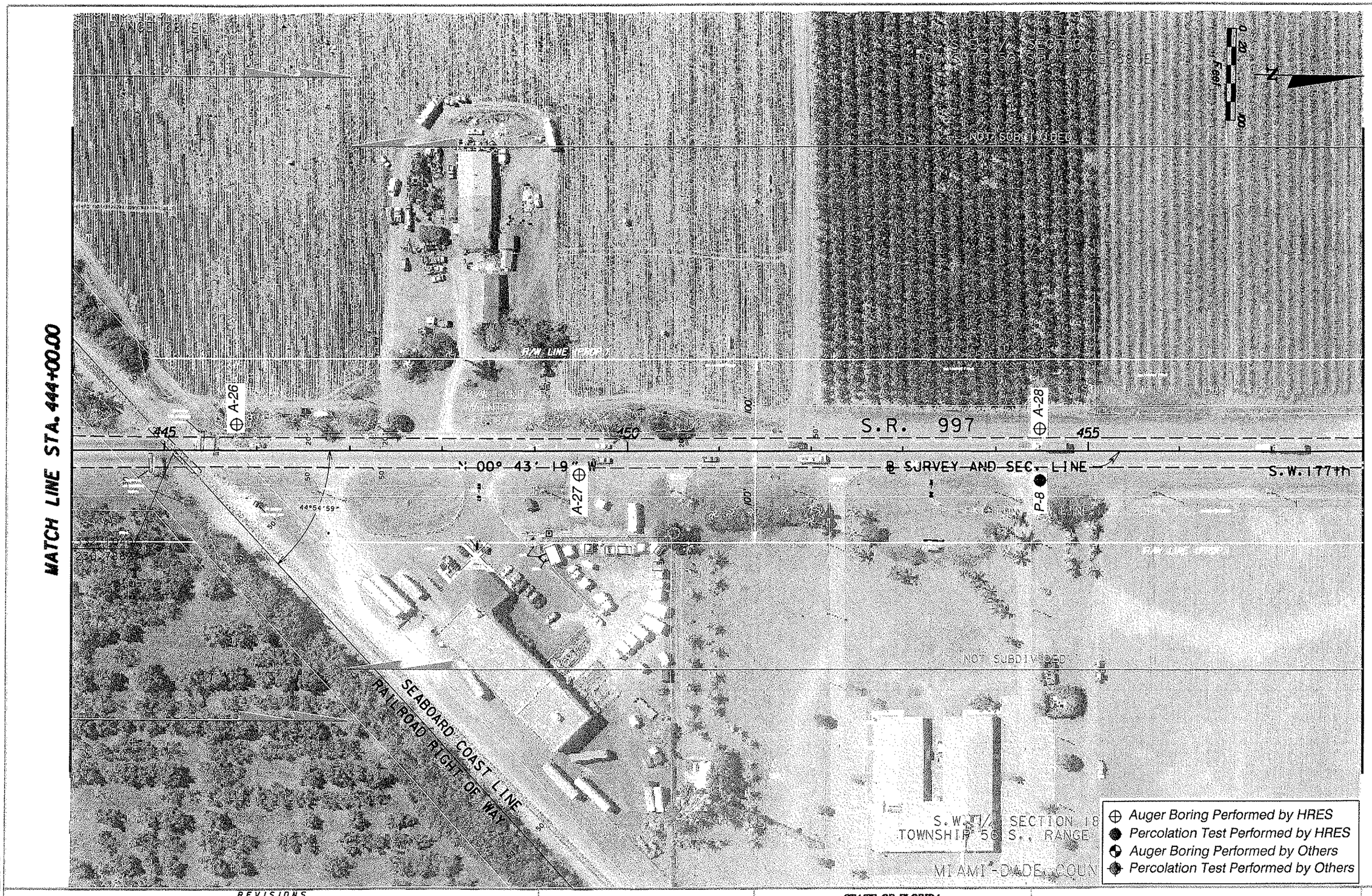

REVISIONS			
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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-18

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MATCH LINE STA. 458+00.00

MATCH LINE STA. 472+00.00

N.E. 1/4 SECTION
TOWNSHIP 56 S. RANG

P.I. STA. 465+07.44 (KROME AVE.)
Δ = 0° 02' 14"

N.W. CORNER S.W. 1/4 SECTION 8
T. 56 S. RGE. 39 E.
N 15,328.5900
E 28,205.6260

0 20 40 Feet

N

S.R. 997

2,675.91' N88°45'43"E

460 470

N 00° 43' 19" W

N 00° 45' 38" W

AVENUE - KROME AVENUE

R SURVEY AND S

A-29 ⊕ A-30 ⊕ A-31 ⊕

100' 50'

FDT STA. 465+07.44
465+04.57 R/W MAP

S.W. 224th STREET

N88°39'41"E 2,681.09' (M)

⊕ Auger Boring Performed by HRES
● Percolation Test Performed by HRES
⊕ Auger Boring Performed by Others
● Percolation Test Performed by Others

REVISIONS			
DATE	BY	DESCRIPTION	DATE

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HR ENGINEERING SERVICES, INC.
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-19

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MATCH LINE STA. 472+00.00

MATCH LINE STA. 486+00.00

P-9

S.W. 177th AVENUE — KROME AVENUE

℄ SURVEY AND SEC. LINE

℄ S.W. 177th AVENUE — KROME AVENUE

480

R/W LINE (PROP.)

N.E. 1/4 SECTION
TOWNSHIP 56 S., RA

OT SUBDIVIDED

NOT SU

- ⊕ Auger Boring Performed by HRES
- ● Percolation Test Performed by HRES
- ⊕ Auger Boring Performed by Others
- ◆ Percolation Test Performed by Others

REVISIONS			
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DEPARTMENT OF TRANSPORTATION

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SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-20

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MATCH LINE STA. 486+00.00

MATCH LINE STA. 500+00.00

S.E. 1/4 SECTION 12, TOWNSHIP 56 S., RANGE 38 E.

(HAINLIN MILL DRIVE)

S.W. 216th STREET

P.I. STA. 43+60.59 (KROME AVE.)
Δ = 6° 08' 51" RT.

N.W. CORNER S.W. 1/4 SECTION 18, TOWNSHIP 56 S., RANGE 39 E.

POT STA. 43+50.39

N89°05'18"E (P)

S.R. 997

N 00° 45' 38" W

N 00° 35' 24" W

℄ SURV. AND SEC. LINE

R/W LINE (PROP.)

N88°16'35"E 2,681.00'(P)

SOUTH 1/4 SECTION 13, TOWNSHIP 56 S., RANGE 38 E.

0 20 100 Feet

N

- ⊕ Auger Boring Performed by HRES
- ● Percolation Test Performed by HRES
- ◐ Auger Boring Performed by Others
- ◈ Percolation Test Performed by Others

REVISIONS			
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STATE OF FLORIDA
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SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-21

MATCH LINE STA. 500+00.00

MATCH LINE STA. 514+00.00

S.E. 1/4 SECTION 2
TOWNSHIP 56 S., RANGE 38 E.

NOT SURVEYED

S.R. 997

505

510

S.W. 177 AVENUE - KROME AVENUE

N 00° 35' 24" W

N 00° 35' 24" W

100'

50'

A-32

EXISTING R/W LINE
DB. 6B PG. 50

R/W LINE (PROP.)

R/W LINE PER F.D.O.T.

DB. 20475 PG. 1257

DB. 21801 PG.

NOT SURVEYED

S.E. 1/4 SECTION 2

0 20 40 Feet

N

⊕ Auger Boring Performed by HRES
● Percolation Test Performed by HRES
⊕ Auger Boring Performed by Others
● Percolation Test Performed by Others

REVISIONS			
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SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-22

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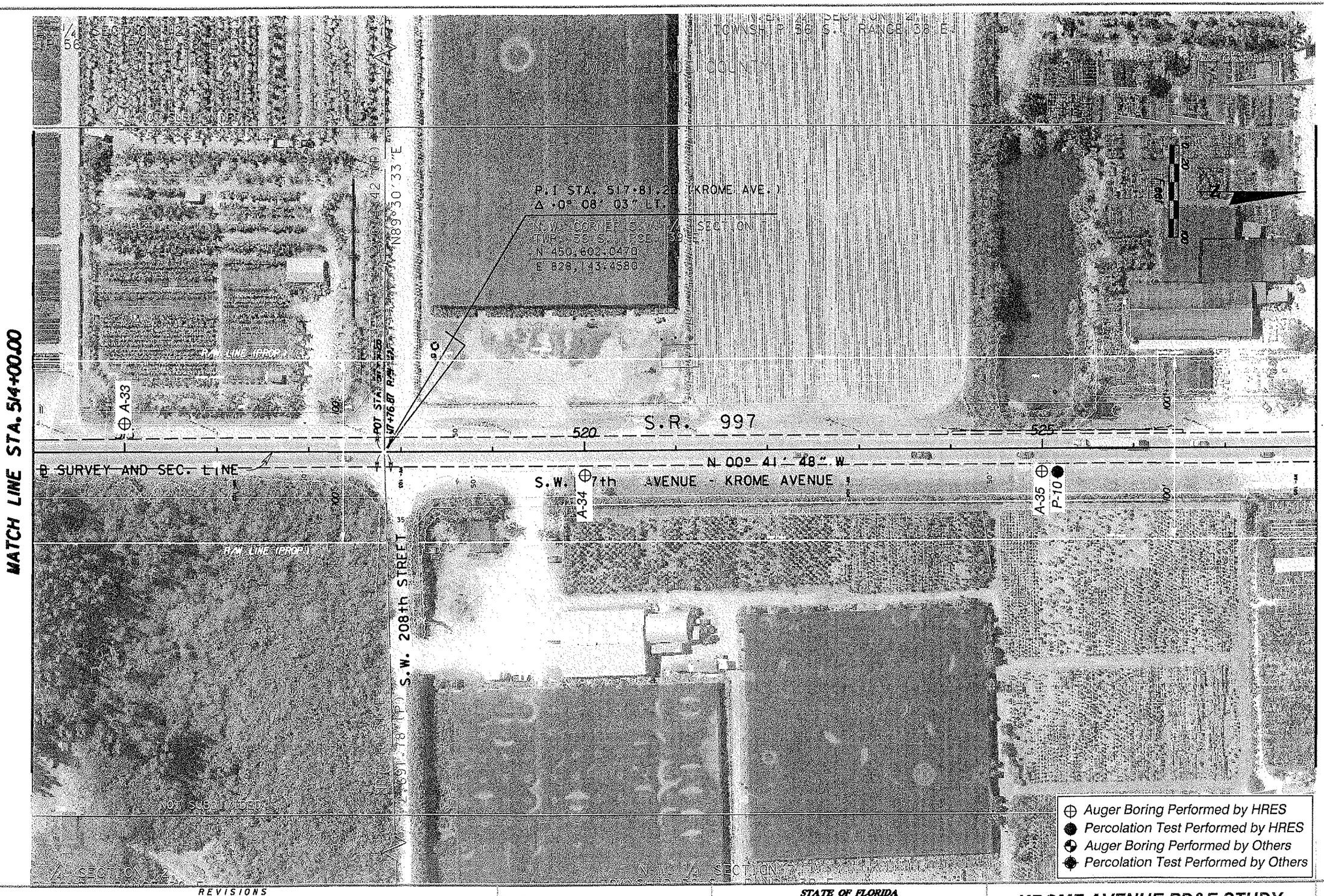

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HRES Project No. HR04-228R

SHEET NO. A-23

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FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-24

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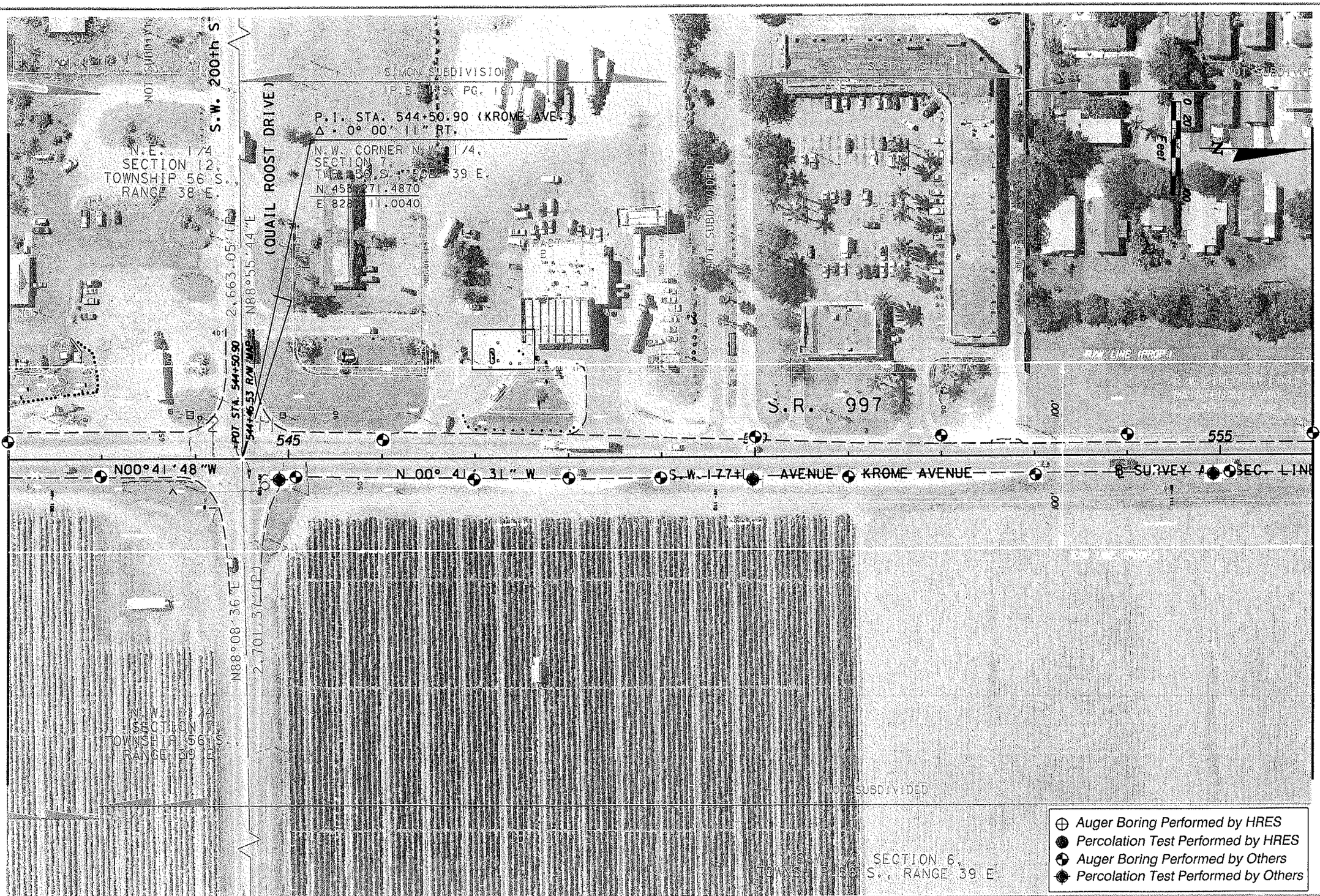

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SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-25

MATCH LINE STA. 556+00.00

MATCH LINE STA. 570+00.00

S.E. 1/4 SECTION 1,
TOWNSHIP 56 S., RANGE 38 E.

NOT SUBDIVIDED

RIGHT OF WAY

100'

CANAL C-102

S.R. 997

565

N 00° 41' 31" E SURVEY AND S. LINE

S.W. 177th AVEN. - KROME AVENUE

R/W LINE PER FDOT MAINTENANCE MAP SEC. 87150-2552

R/W LINE (TYP.)

50'

100'

P.I. STA. 571+00.04 (KROME AVE.)
Δ = 0° 03' 15" RT.

N.W. CORNER S.W.1/4, SECTION 6, TWP. 56 S., RGE. 39 E.
N 455,920.4290
E 828,079.0090

0 20 100 Feet

N

NOT SUBDIVIDED

S.W. 1/4 SECTION 6,
TOWNSHIP 56 S., RANGE 39 E.

MIAMI-DADE

- Auger Boring Performed by HRES
- Percolation Test Performed by HRES
- Auger Boring Performed by Others
- Percolation Test Performed by Others

REVISIONS			
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KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-26

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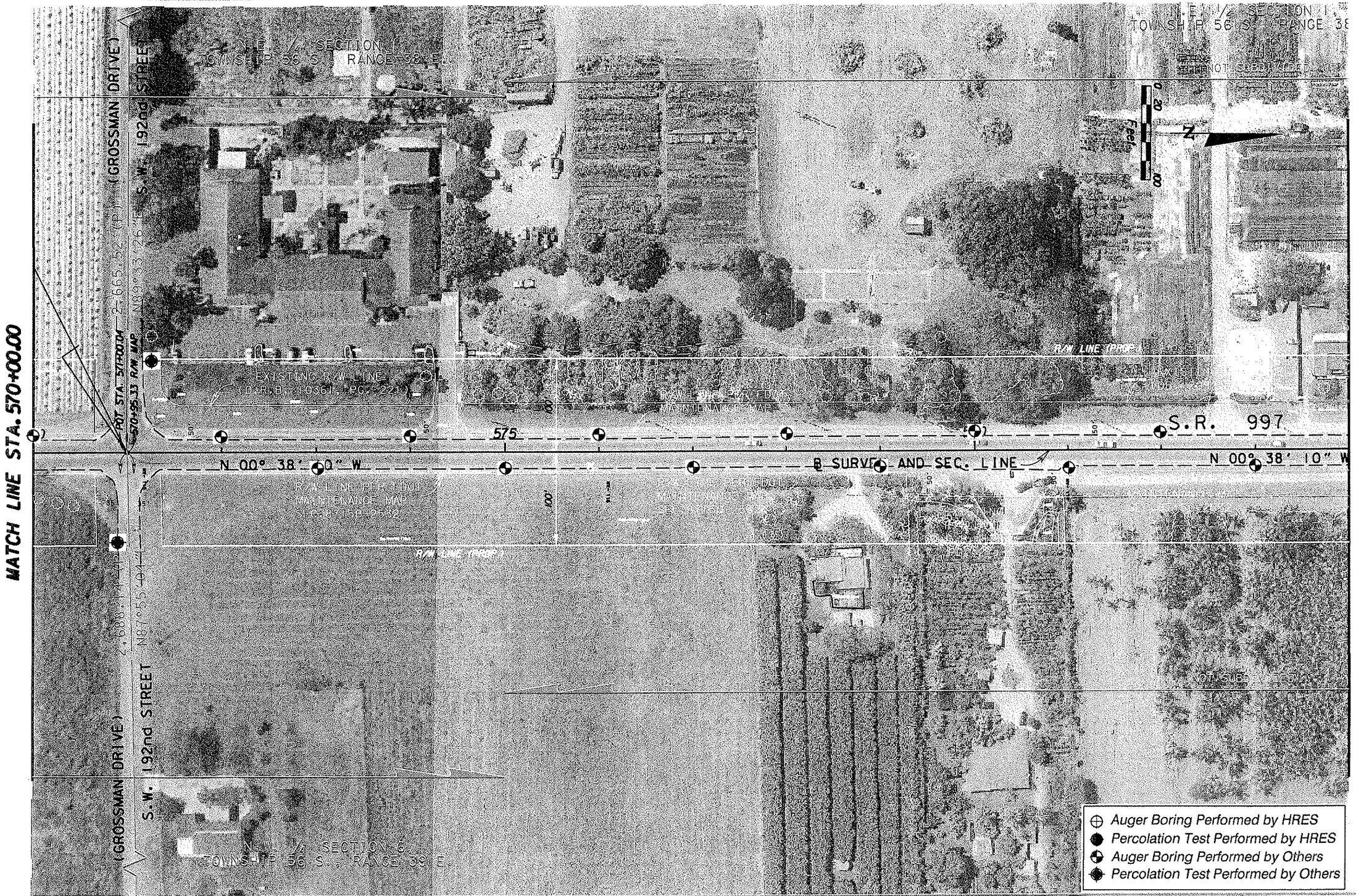

⊕ *Auger Boring Performed by HRES*
● *Percolation Test Performed by HRES*
◒ *Auger Boring Performed by Others*
◉ *Percolation Test Performed by Others*

REVISIONS			
DATE	BY	DESCRIPTION	DATE

HRES
HR ENGINEERING SERVICES, INC.
14038 NW 82nd Avenue, # 5
Miami Lakes FL 33016 - (305) 828-6746

URS
7650 Corporate Center Drive, Suite 400
Miami, Florida, 26331-1220
Ph : (305) 262-7466 - Fax : (305) 261-4017

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-27

MATCH LINE STA. 584+00.00

MATCH LINE STA. 598+00.00

SW 188th ST

(EUREKA DRIVE)

SW 184th STREET

P.I. STA. 597+50.91 (KROME AVE.)
Δ = 01° 24' 47" LT.

S.W. CORNER, S.W. 1/4 SECTION 31,
TWP. 55 S., RGE. 39 E.
N 458,571.1360
E 828,049.5800

S.R. 997

S.W. 177th AVENUE - KROME AVENUE

N 00° 38' 10" W B SURVEY AND SEC. LINE

N89°28'17"E 2,667.61'(P)

N87°43'07"E 2,673.72'(P)

SECTION & TOWNSHIP LINE

POT STA. 597+50.9
597+43.84 R/W MAP

RAW LINE (PROFILE)

N.W. 1/4 SECTION 6
TOWNSHIP 56 S., RANGE 39 E.

- ⊕ Auger Boring Performed by HRES
- ● Percolation Test Performed by HRES
- ⊕ Auger Boring Performed by Others
- ● Percolation Test Performed by Others

REVISIONS			
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-28

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MATCH LINE STA. 612+00.00

MIAMI-DADE COUNTY

1/4 SECTION 36
TOWNSHIP 55 S., RANGE 38 E.

NOT SUBDIVIDED

TOWNSHIP 55 S.
RANGE 38 E.

SOUTH LINE, N.E. 1/4 SECTION 36-55-38

(PINE DRIVE) S.W. 176th STREET

TRACT "D"

A-37

615 S.R. 997 620 625

N 02° 02' 59" W

S.W. 177th AVENUE - KROME AVENUE

A-36

P-11

A-38

N 02° 02' 59" W

N 02° 02' 59" W

100'

50'

90'

90'

STA. 623+91.16

N 52° 25' 05" E

NOT SUBDIVIDED

S.W. 1/4 SECTION 31
TOWNSHIP 55 S., RANGE 39 E.

MIAMI-DADE COUNTY

MATCH LINE STA. 626+00.00

⊕ Auger Boring Performed by HRES
● Percolation Test Performed by HRES
◒ Auger Boring Performed by Others
◆ Percolation Test Performed by Others

REVISIONS			
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7650 Corporate Center Drive, Suite 400
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-30

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MATCH LINE STA. 626+00.00

MATCH LINE STA. 640+00.00

S.W. 175th TERRACE (TIVOLI DRIVE)

S.W. 174th TERRACE (LEAFY GLENN DRIVE)

PEAB ROAD

S.R. 997

25' PARKWAY

A-39

626+03.43 R/W MAP

630

635

SURVEY AND SEC. LINE

N 02° 02' 59" W

S.W. 177th AVENUE - KROME AVENUE

P-12

100'

EXISTING R/W LINE

R/W LINE (FDOT)

STA. 626+08.64

S.W. CORNER OF N.W. 1/4 SECTION 31, TWP. 55 S. RGE. 39 E.

ROD PIPE

N 461,427.0412

E 827,947.3707

NOT SUBDIVIDED

SECTION 31 TOWNSHIP 55 SOUTH RANGE 39 EAST

- ⊕ Auger Boring Performed by HRES
- ● Percolation Test Performed by HRES
- ⊕ Auger Boring Performed by Others
- ◈ Percolation Test Performed by Others

REVISIONS			
DATE	BY	DESCRIPTION	DATE

HRES
HR ENGINEERING SERVICES, INC.
14038 NW 82nd Avenue, # 5
Miami Lakes FL 33016 - (305) 828-6746

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-31

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MATCH LINE STA. 640+00.00

MATCH LINE STA. 654+00.00

SECTION 2A REDLAND AVOCADO GROVES

PLAT BK. 28 PG. 30

TRACT "K"

R/W LINE (PROP.)

S.W. 177th AVENUE - KROME AVENUE

645

650

N 02° 02' 59" W

N 01°03'38"W

BASURVEY AND SEC. LINE

NOT PLATTED

NORTH LINE N.E. 1/4 SECTION 36

N89°33'32"E (F.C.)

(RICHMOND DRIVE)
S.W. 168th STREET

1/2" IRON PIPE
N 463,847.9380
E 827,860.7300

S.R. 997

36

25

P.I. STA. 652+63.82 (KROME AVE.)
Δ = 00° 00' 50" LT.

N.W. CORNER N.W. 1/4
SECTION 31, TWP. 55 S., RGE. 39 E.
3/4" IRON PIPE
N 464,080.5180
E 827,852.4060

N87°41'22"E 2,694.75' (M.)

N.W. 1/4 SECTION 31

(RICHMOND DRIVE)
S.W. 168th STREET

SECTION 31, TOWNSHIP 55 S., RANGE 39 E.

MIAMI-DADE COUNTY

- ⊕ Auger Boring Performed by HRES
- ● Percolation Test Performed by HRES
- ⊕ Auger Boring Performed by Others
- ● Percolation Test Performed by Others

REVISIONS			
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-32

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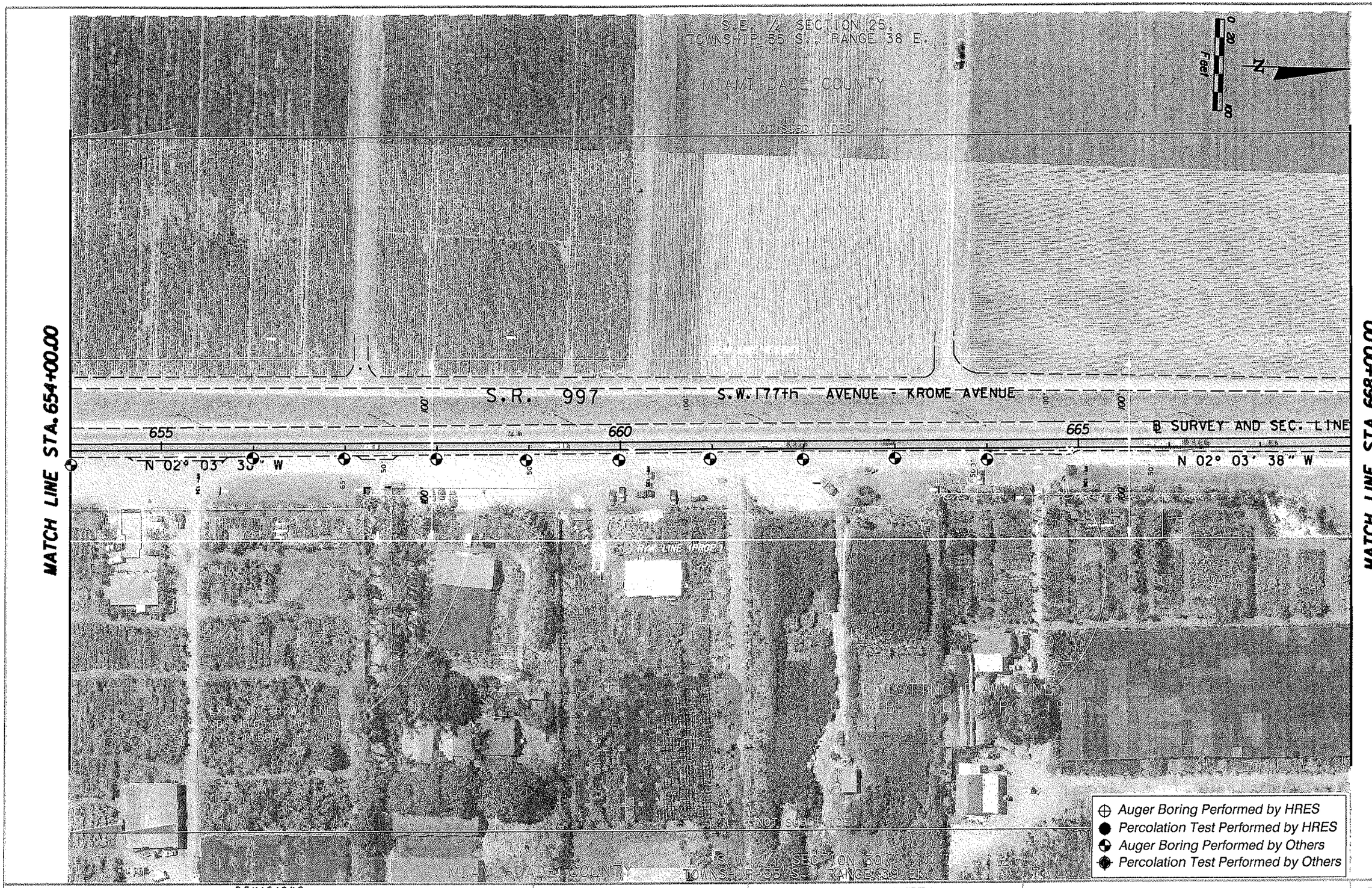

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REVISIONS			
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HRES
HR ENGINEERING SERVICES, INC.
14038 NW 82nd Avenue, # 5
Miami Lakes FL 33016 - (305) 828-6746

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7650 Corporate Center Drive, Suite 400
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-33

S.E. 1/4 SECTION 25, TOWNSHIP 55 S., RANGE 38 E.

MIAMI-DADE COUNTY

NOT SUBDIVIDED

STA. 679+21.18 (KROME AVE.)

N.W. CORNER OF S.W. 1/4, SECTION 30, TWP. 55 S., RGE. 39 E.
3/4" IRON PIPE
N: 466,736.1592
E: 827,756.8614

MATCH LINE STA. 668+00.00

MATCH LINE STA. 682+00.00

S.R. 997

S.W. 177th

POT STA. 679+21.18 R/W MAP
679+15.21 R/W MAP

670 675 680

N 02° 03' 38" W

℄ SURVEY AND SEC. LI

P-13

A-40

A-41

100'

N 88° 23' 22" E 401.39'

NORTH LINE, S.W. 1/4 SECTION 30-55-39

S.W. 160th STREET

R/W LINE (PROP.)

TOWNS

NOT SUBDIVIDED

S.W. 1/4 SECTION 30, TOWNSHIP 55 S., RANGE 39 E. MIAMI-DADE COUNTY

⊕ Auger Boring Performed by HRES
● Percolation Test Performed by HRES
◐ Auger Boring Performed by Others
◉ Percolation Test Performed by Others

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REVISIONS			
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HR ENGINEERING SERVICES, INC.
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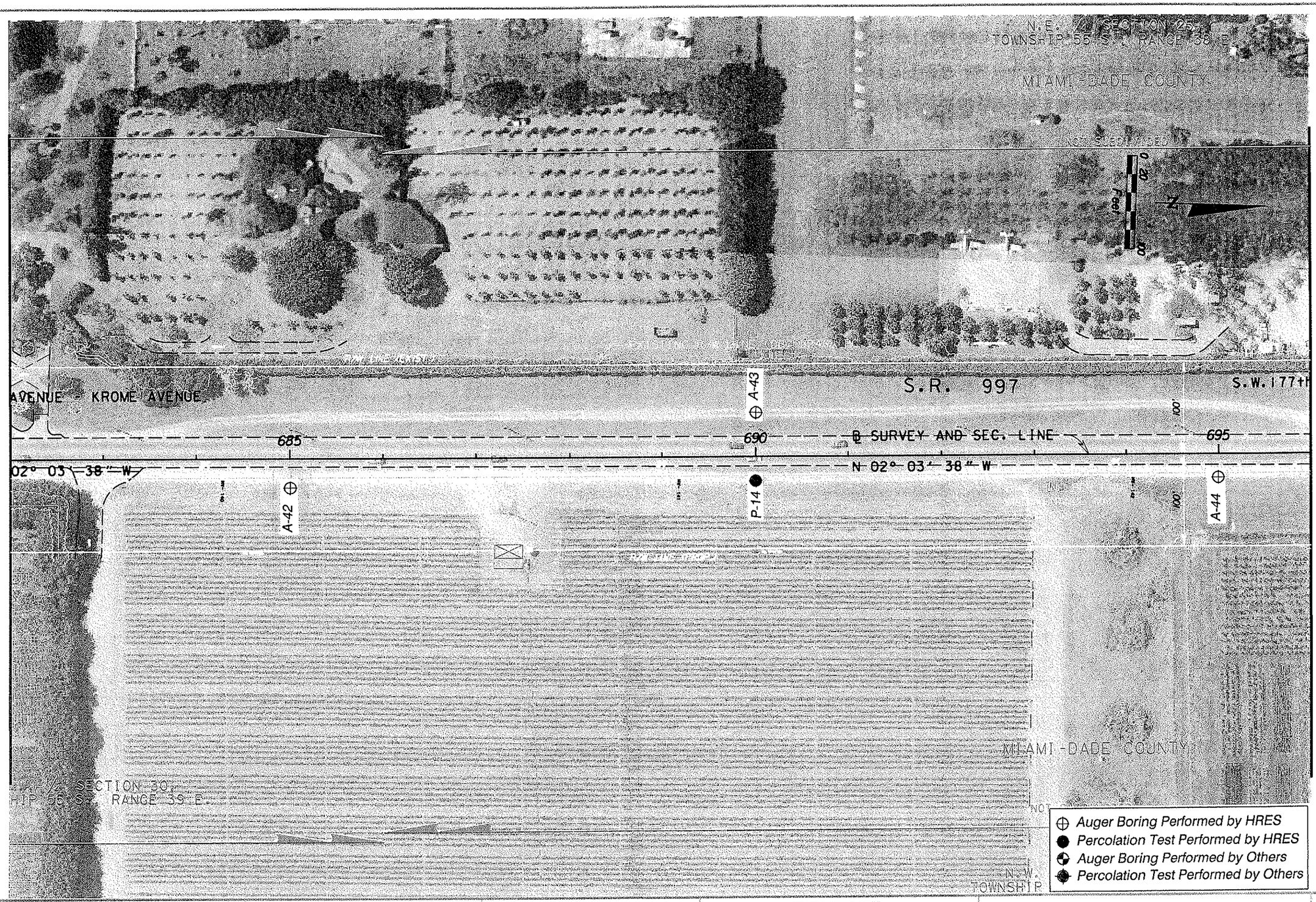
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-34



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REVISIONS			
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HRES
HR ENGINEERING SERVICES, INC.
14038 NW 82nd Avenue, # 5
Miami Lakes FL 33016 - (305) 828-6746

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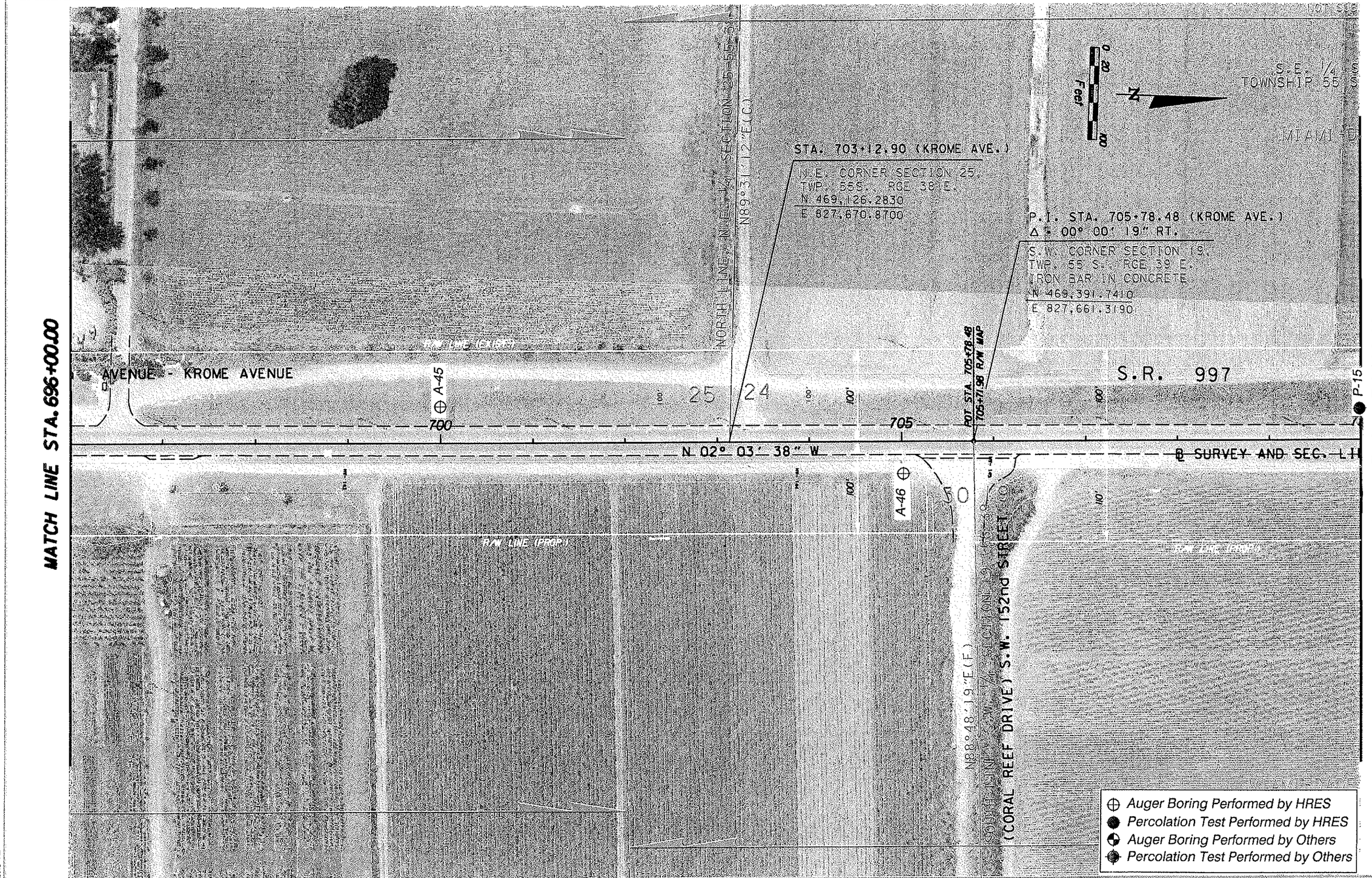
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-35



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REVISIONS			
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HRES
HR ENGINEERING SERVICES, INC.
14038 NW 82nd Avenue, # 5
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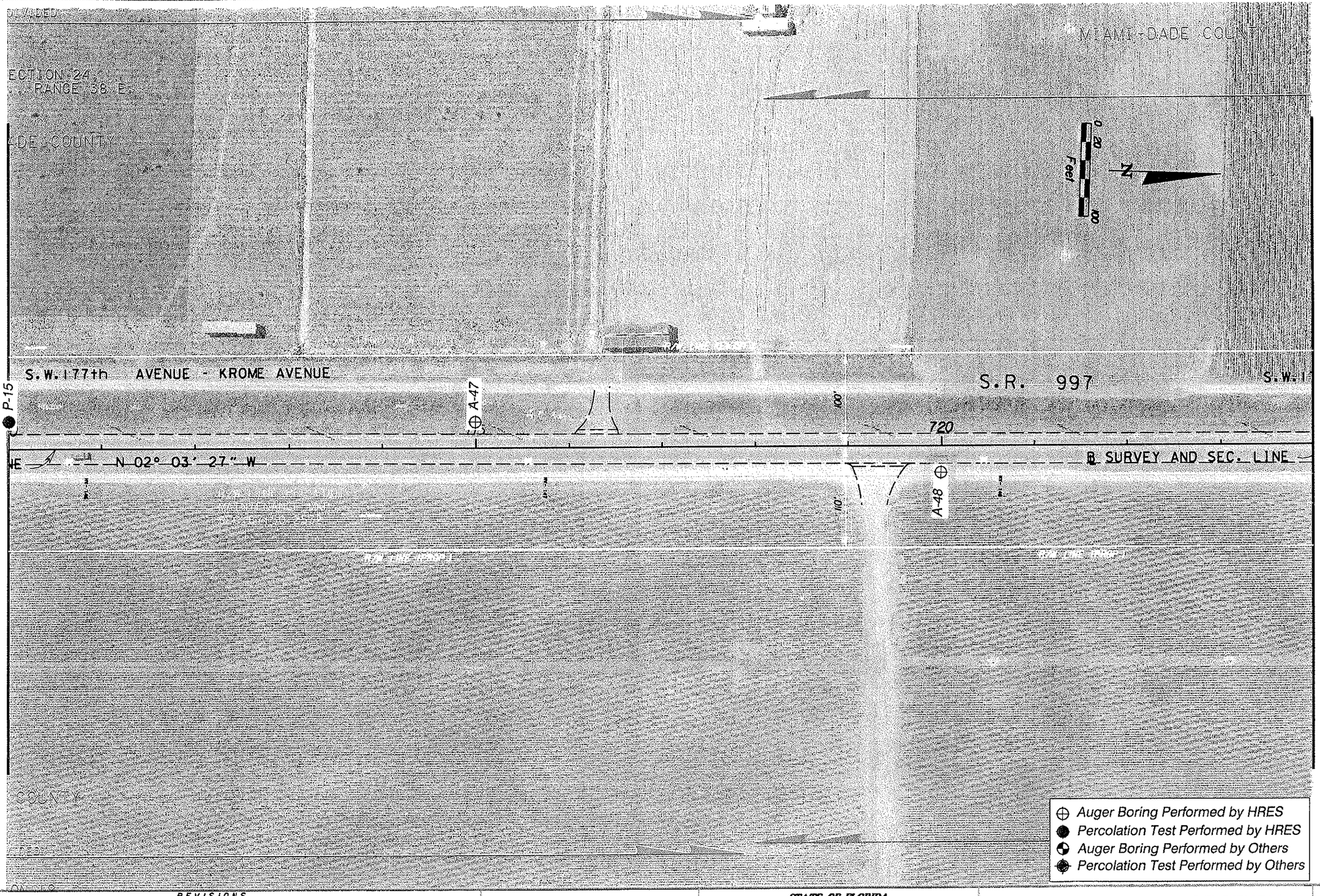
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-36



REVISIONS			
DATE	BY	DESCRIPTION	DATE

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-37

S.E. 1/4 SECTION 24
TOWNSHIP 55 S., RANGE 39 E.

STA. 729+53.71 (KROME AVE.)
S.E. CORNER SECTION 24, TWP. 55 S., RGE. 39 E.
N 471,765.3900
E 827,576.0490

N87°56'33"E(C)
NORTH LINE S.E. 1/4 SECTION 24-55-39

MATCH LINE STA. 724+00.00

27th AVE. JE - KROME AVENUE

A-49

730

735

N 02° 03' 27" W

N 02° 03' 27" W

N02°03'30"W

POT STA. 732+35.41 R/W MAP

B SURVEY AND SEC. L

P-16

A-50

MATCH LINE STA. 738+00.00

P.I. STA. 732+35.41 (KROME AVE.)
Δ = 00° 00' 15" LT.

N.W. CORNER S.W. 1/4 SECTION 19, TWP. 55 S., RGE. 39 E.
IRON BAR IN CONCRETE
N 472,046.9650
E 827,565.9340

NORTH LINE S.W. 1/4 SECTION 19-55-39
N86°18'36"E(C)

S.W. 1/4 SECTION 19

- ⊕ Auger Boring Performed by HRES
- ● Percolation Test Performed by HRES
- ⊕ Auger Boring Performed by Others
- ● Percolation Test Performed by Others

REVISIONS			
DATE	BY	DESCRIPTION	DATE

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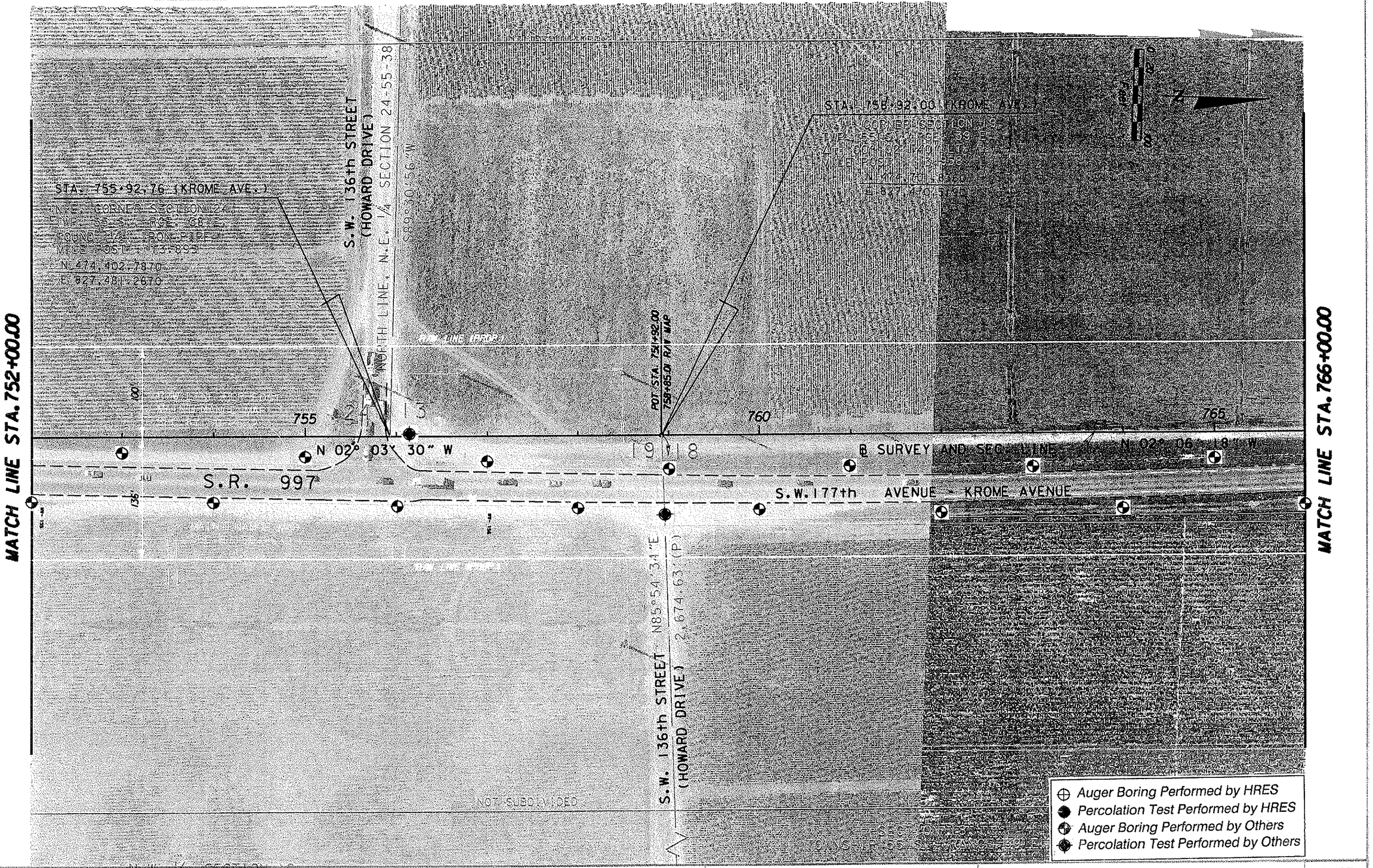
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-38



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REVISIONS			
DATE	BY	DESCRIPTION	DATE

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

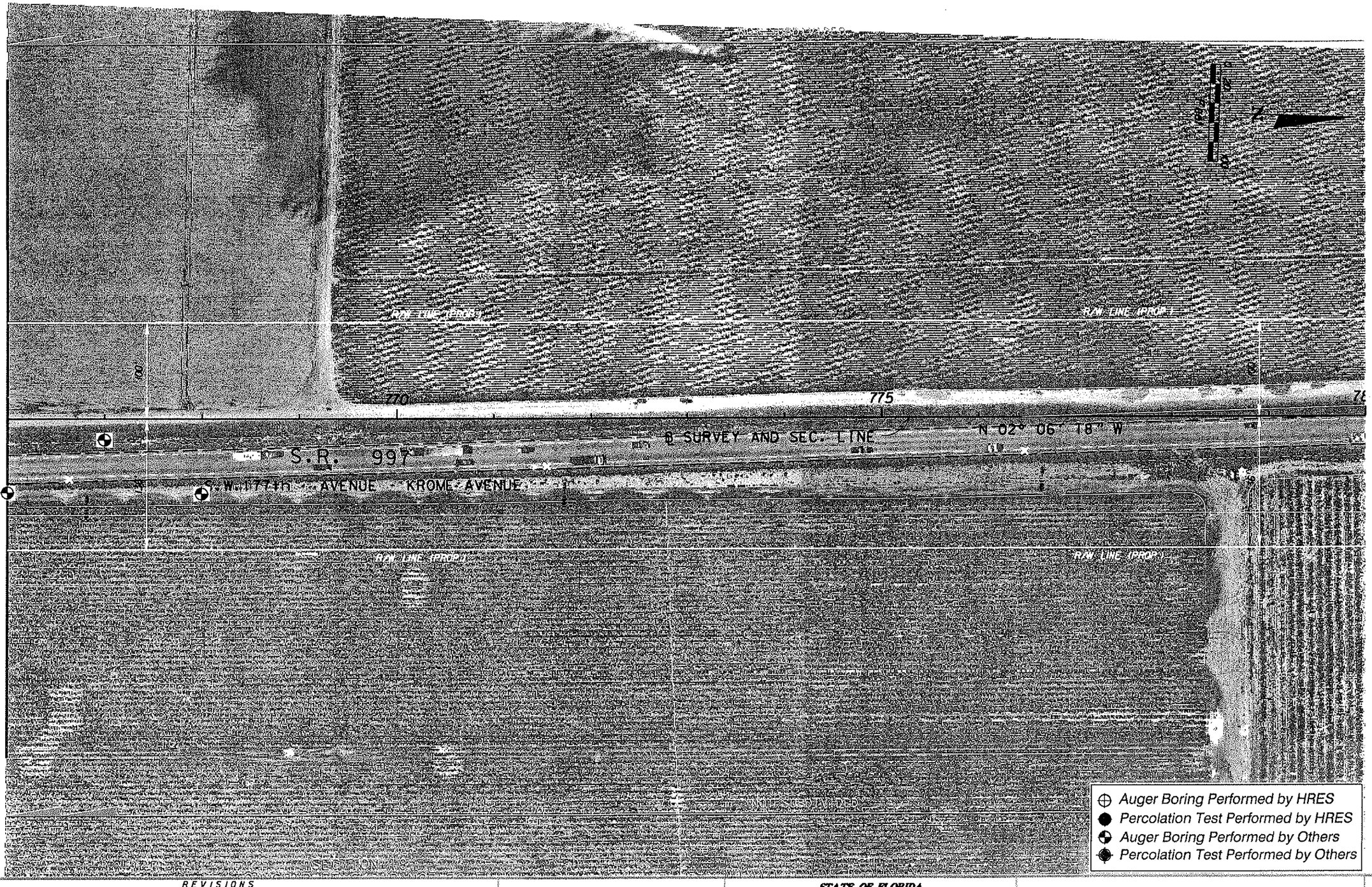
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO. A-40

MIAMI-DADE COUNTY

SECTION 13,
TOWNSHIP 55 S., RANGE 38 E.



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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 997	MIAMI-DADE	249614-4-22-01

KROME AVENUE PD&E STUDY
FROM SW 296th St. TO SW 136th St.
HRES Project No. HR04-228R

SHEET NO.
A-4I

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SUMMARY OF AUGER BORINGS AND PERCOLATION TEST LOCATIONS

SR 997/ KROME AVENUE PD&E STUDY - FROM SW 296th STREET TO SW 136th STREET
FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 6
HRES PROJECT No. HR04-228R

BORING No.	STATION	OFFSET ft.	WATER DEPTH ft.
A-1	225 + 40	35.0 L	N/A
P-1	225 + 40	30.0 R	5.30
A-2	230 + 45	40.0 R	N/A
A-3	235 + 45	20.0 L	N/A
A-4	269 + 90	30.0 L	N/A
A-5	274 + 65	40.0 R	N/A
A-6	280 + 80	45.0 L	N/A
P-2	285 + 20	30.0 L	7.00
A-7	285 + 25	35.0 R	N/A
A-8	290 + 25	30.0 L	N/A
A-9	320 + 25	40.0 R	N/A
A-10	324 + 90	35.0 L	N/A
A-11	330 + 00	35.0 R	N/A
P-3	335 + 00	30.0 L	6.90
A-12	340 + 20	35.0 R	N/A
A-13	345 + 20	35.0 L	N/A
P-4	374 + 60	35.0 R	6.30
A-14	374 + 80	30.0 L	N/A
A-15	379 + 80	40.0 R	N/A
A-16	385 + 35	35.0 L	N/A
A-17	390 + 00	40.0 R	N/A
P-5	395 + 20	30.0 R	5.30
A-18	400 + 20	30.0 L	N/A
A-19	405 + 20	30.0 R	4.90
A-20	410 + 25	30.0 L	N/A
A-21	415 + 55	35.0 R	4.30
P-6	415 + 55	35.0 R	5.10
A-22	420 +60	25.0 L	N/A
A-23	425 + 35	30.0 R	5.00
A-24	430 + 35	30.0 L	N/A
P-7	435 + 35	30.0 R	4.80
A-25	440 + 35	40.0 R	N/A
A-26	445 + 80	30.0 L	N/A
A-27	449 + 50	25.0 R	N/A
A-28	454 + 45	25.0 L	N/A
P-8	454 + 45	30.0 R	6.00

SUMMARY OF AUGER BORINGS AND PERCOLATION TEST LOCATIONS

SR 997/ KROME AVENUE PD&E STUDY - FROM SW 296th STREET TO SW 136th STREET

FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 6

HRES PROJECT No. HR04-228R

BORING No.	STATION	OFFSET ft.	GROUND WATER ELEVATION ft.
A-29	459 + 45	30.0 R	N/A
A-30	464 + 80	35.0 L	N/A
A-31	470 + 10	30.0 R	5.00
P-9	475 + 10	30.0 L	6.00
A-32	510 + 00	35.0 R	N/A
A-33	515 + 00	30.0 L	N/A
A-34	520 + 00	25.0 R	N/A
A-35	525 + 00	25.0 R	N/A
P-10	525 + 15	25.0 R	5.90
A-36	615 + 00	30.0 R	N/A
A-37	620 + 00	45.0 L	N/A
P-11	620 + 00	30.0 R	5.50
A-38	625 + 00	30.0 R	N/A
A-39	629 + 70	40.0 L	N/A
P-12	634 + 70	30.0 R	5.50
P-13	670 + 00	20.0 R	5.00
A-40	675 + 00	25.0 R	N/A
A-41	680 + 00	50.0 L	4.40
A-42	685 + 00	30.0 R	N/A
A-43	690 + 00	50.0 L	4.40
P-14	690 + 00	25.0 R	5.20
A-44	695 + 00	25.0 R	5.00
A-45	700 + 00	40.0 L	4.10
A-46	705 + 00	35.0 R	4.30
P-15	710 + 00	35.0 L	4.20
A-47	715 + 00	30.0 L	3.50
A-48	720 + 00	30.0 R	3.80
A-49	725 + 00	35.0 L	3.80
P-16	730 + 00	35.0 R	4.00
A-50	735 + 00	50.0 R	3.80
P-17	740 + 00	55.0 R	4.20

SOILS INFORMATION TABLE
PERFORMED BY HRES FOR KROME AVENUE
FROM STATION 225+40 TO STATION 735+00

SOILS INFORMATION TABLE

SR 997/ KROME AVENUE PD&E STUDY - FROM SW 296th STREET TO SW 136th STREET
FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 6
HRES PROJECT No. HR04-228R

BORING No.	STATION	OFFSET ft.	RANGE IN DEPTH ft.	STRATUM	WATER DEPTH ft.
A-1	225 + 40	35.0 L	0.0-0.5	1	N/A
			0.5-5.0	3	
A-2	230 + 45	40.0 R	0.0-0.5	1	N/A
			0.5-5.0	3	
A-3	235 + 45	20.0 L	0.0-0.8	1	N/A
			0.8-5.0	3	
A-4	269 + 90	30.0 L	0.0-0.5	1	N/A
			0.5-5.0	3	
A-5	274 + 65	40.0 R	0.0-0.7	1	N/A
			0.7-5.0	3	
A-6	280 + 80	45.0 L	0.0-1.3	1	N/A
			1.3-5.0	3	
A-7	285 + 25	35.0 R	0.0-5.0	1	N/A
A-8	290 + 25	30.0 L	0.0-0.7	1	N/A
			0.7-5.0	3	
A-9	320 + 25	40.0 R	0.0-0.8	1	N/A
			0.8-5.0	3	
A-10	324 + 90	35.0 L	0.0-0.9	1	N/A
			0.9-5.0	3	
A-11	330 + 00	35.0 R	0.0-2.0	1	N/A
			2.0-5.0	3	
A-12	340 + 20	35.0 R	0.0-2.0	1	N/A
			2.0-5.0	3	
A-13	345 + 20	35.0 L	0.0-0.5	1	N/A
			0.5-5.0	3	
A-14	374 + 80	30.0 L	0.0-3.0	1	N/A
			3.0-5.0	3	
A-15	379 + 80	40.0 R	0.0-1.1	1	N/A
			1.1-5.0	3	
A-16	385 + 35	35.0 L	0.0-1.5	1	N/A
			1.5-5.0	3	

SOILS INFORMATION TABLE

SR 997/ KROME AVENUE PD&E STUDY - FROM SW 296th STREET TO SW 136th STREET
FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 6
HRES PROJECT No. HR04-228R

BORING No.	STATION	OFFSET ft.	RANGE IN DEPTH ft.	STRATUM	WATER DEPTH ft.
A-17	390 + 00	40.0 R	0.0-3.5	1	N/A
			3.5-5.0	3	
A-18	400 + 20	30.0 L	0.0-1.5	1	N/A
			1.5-2.0	2	
			2.0-5.0	3	
A-19	405 + 20	30.0 R	0.0-1.5	1	4.90
			1.5-2.1	2	
			2.1-5.0	3	
A-20	410 + 25	30.0 L	0.0-1.2	1	N/A
			1.2-2.0	2	
			2.0-5.0	3	
A-21	415 + 55	35.0 R	0.0-1.3	1	4.30
			1.3-5.0	3	
A-22	420 +60	25.0 L	0.0-2.0	1	N/A
			2.0-5.0	3	
A-23	425 + 35	30.0 R	0.0-0.6	1	5.00
			0.6-5.0	3	
A-24	430 + 35	30.0 L	0.0-3.0	1	N/A
			3.0-3.5	2	
			3.5-5.0	3	
A-25	440 + 35	40.0 R	0.0-0.5	1	N/A
			0.5-5.0	3	
A-26	445 + 80	30.0 L	0.0-2.0	1	N/A
			2.0-5.0	3	
A-27	449 + 50	25.0 R	0.0-0.7	1	N/A
			0.7-5.0	3	
A-28	454 + 45	25.0 L	0.0-1.5	1	N/A
			1.5-5.0	3	
A-29	459 + 45	30.0 R	0.0-.07	1	N/A
			0.7-5.0	3	
A-30	464 + 80	35.0 L	0.0-1.5	1	N/A
			1.5-5.0	3	

SOILS INFORMATION TABLE

SR 997/ KROME AVENUE PD&E STUDY - FROM SW 296th STREET TO SW 136th STREET
FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 6
HRES PROJECT No. HR04-228R

BORING No.	STATION	OFFSET ft.	RANGE IN DEPTH ft.	STRATUM	WATER DEPTH ft.
A-31	470 + 10	30.0 R	0.0-0.7	1	5.00
			0.7-5.0	3	
A-32	510 + 00	35.0 R	0.0-0.7	1	N/A
			0.7-5.0	3	
A-33	515 + 00	30.0 L	0.0-3.5	1	N/A
			3.5-5.0	3	
A-34	520 + 00	25.0 R	0.0-0.8	1	N/A
			0.8-5.0	3	
A-35	525 + 00	25.0 R	0.0-0.8	1	N/A
			0.8-5.0	3	
A-36	615 + 00	30.0 R	0.0-1.5	1	N/A
			1.5-5.0	3	
A-37	620 + 00	45.0 L	0.0-0.6	1	N/A
			0.6-5.0	3	
A-38	625 + 00	30.0 R	0.0-2.5	1	N/A
			2.5-5.0	3	
A-39	629 + 70	40.0 L	0.0-1.5	1	N/A
			1.5-5.0	3	
A-40	675 + 00	25.0 R	0.0-3.0	1	N/A
			3.0-5.0	3	
A-41	680 + 00	50.0 L	0.0-1.5	1	4.40
			1.5-5.0	3	
A-42	685 + 00	30.0 R	0.0-2.0	1	N/A
			2.0-5.0	3	
A-43	690 + 00	50.0 L	0.0-1.0	1	4.40
			1.0-5.0	3	
A-44	695 + 00	25.0 R	0.0-3.0	1	5.00
			3.0-5.0	3	
A-45	700 + 00	40.0 L	0.0-1.5	1	4.10
			1.5-5.0	3	
A-46	705 + 00	35.0 R	0.0-1.5	1	4.30
			1.5-5.0	3	

SOILS INFORMATION TABLE

SR 997/ KROME AVENUE PD&E STUDY - FROM SW 296th STREET TO SW 136th STREET
FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 6
HRES PROJECT No. HR04-228R

BORING No.	STATION	OFFSET ft.	RANGE IN DEPTH ft.	STRATUM	WATER DEPTH ft.
A-47	715 + 00	30.0 L	0.0-1.0	1	3.50
			1.0-5.0	3	
A-48	720 + 00	30.0 R	0.0-1.5	1	3.80
			1.5-3.5	2	
			3.5-5.0	3	
A-49	725 + 00	35.0 L	0.0-0.5	1	3.80
			0.5-5.0	3	
A-50	735 + 00	50.0 R	0.0-0.8	1	3.80
			0.8-5.0	2	

SOILS INFORMATION

STRATUM : 1 Silty fine SAND with traces or some limerock (fill), A-2-4

STRATUM : 2 Sandy SILT (MARL) with traces or some limestone fragments, A-4

STRATUM : 3 Silty calcareous sandy LIMESTONE

SOILS INFORMATION TABLE
PERFORMED BY FDOT FOR KROME AVENUE
FROM STATION 239+00 TO STATION 265+00

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 & 6 MATERIALS OFFICE

SUMMARY OF AUGER BORING RESULTS

Financial Project ID:	**249614-5-52-01**	**Date:**	**7/2/2003**
Project Location:	**Krome Avenue and Biscayne Drive (SW 288 St.)**		

Soils Information

Stratum # 1 Tan sandy limerock (fill)

Stratum # 2 Tan silty sandy limerock (fill)

Stratum # 3 Tan silty sandy limestone

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 & 6 MATERIALS OFFICE

SUMMARY OF AUGER BORING RESULTS

Financial Project No.:	249614-5-52-01	Date:	7/2/2003
Project Location:	Krome Avenue and Biscayne Drive (SW 288 Street)		

Station	Offset (ft)	Road No.	Depth (ft)	Stratum	Water Table Depth (ft)	Remarks
239 + 00	21.0 RT B/L	SR-997	0.0 - 0.8	2		
			0.8 - 10.0	3	5.2	
240 + 00	18.0 LT B/L	SR-997	0.0 - 1.0	2		
			1.0 - 5.0	3		
241 + 00	21.0 RT B/L	SR-997	0.0 - 0.3	1		
			0.3 - 0.7	2		
			0.7 - 5.0	3		
242 + 00	21.0 LT B/L	SR-997	0.0 - 1.4	2		
			1.4 - 5.0	3		
243 + 00	18.0 RT B/L	SR-997	0.0 - 0.2	1		
			0.2 - 0.8	2		
			0.8 - 5.0	3		
244 + 00	18.0 LT B/L	SR-997	0.0 - 1.0	2		
			1.0 - 10.0	3	5.2	
245 + 00	18.0 RT CL	SR-997	0.0 - 0.3	1		
			0.3 - 0.9	2		
			0.9 - 5.0	3		
246 + 00	18.0 LT B/L	SR-997	0.0 - 0.9	2		
			0.9 - 5.0	3		
247 + 00	18.0 RT B/L	SR-997	0.0 - 0.8	2		
			0.8 - 5.0	3		
248 + 00	18.0 LT B/L	SR-997	0.0 - 0.9	2		
			0.9 - 5.0	3		

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 & 6 MATERIALS OFFICE

SUMMARY OF AUGER BORING RESULTS

Financial Project No.:	249614-5-52-01	Date:	7/2/2003
Project Location:	Krome Avenue and Biscayne Drive (SW 288 Street)		

Station	Offset (ft)	Road No.	Depth (ft)	Stratum	Water Table Depth (ft)	Remarks
249 + 00	19.0 RT B/L	SR-997	0.0 - 0.8	2		
			0.8 - 10.0	3	5.3	
250 + 00	18.0 LT B/L	SR-997	0.0 - 0.9	2		
			0.9 - 5.0	3		
251 + 00	20.0 RT B/L	SR-997	0.0 - 0.7	1		
			0.7 - 1.2	2		
			1.2 - 5.0	3		
252 + 00	21.0 LT B/L	SR-997	0.0 - 1.0	2		
			1.0 - 5.0	3		
253 + 00	27.0 RT B/L	SR-997	0.0 - 0.9	2		
			0.9 - 5.0	3	4.8	
254 + 00	21.0 LT B/L	SR-997	0.0 - 0.9	2		
			0.9 - 10.0	3	5.3	
255 + 00	27.0 RT B/L	SR-997	0.0 - 0.8	2		
			0.8 - 5.0	3		
256 + 00	21.0 LT B/L	SR-997	0.0 - 0.8	2		
			0.8 - 5.0	3		
257 + 00	21.0 RT B/L	SR-997	0.0 - 0.5	2		
			0.5 - 5.0	3		
258 + 00	21.0 LT B/L	SR-997	0.0 - 0.8	2		
			0.8 - 5.0	3		
259 + 00	21.0 RT B/L	SR-997	0.0 - 0.3	2		
			0.3 - 10.0	3	5.2	

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 & 6 MATERIALS OFFICE

SUMMARY OF AUGER BORING RESULTS

Financial Project No.:	249614-5-52-01	Date:	7/2/2003
Project Location:	Krome Avenue and Biscayne Drive (SW 288 Street)		

Station	Offset (ft)	Road No.	Depth (ft)	Stratum	Water Table Depth (ft)	Remarks
260 + 00	21.0 LT B/L	SR-997	0.0 - 1.0	1		
			1.0 - 5.0	2		
261 + 00	21.0 RT B/L	SR-997	0.0 - 0.5	2		
			0.5 - 5.0	3		
262 + 00	21.0 RT B/L	SR-997	0.0 - 0.5	2		
			0.5 - 5.0	3		
263 + 00	21.0 RT B/L	SR-997	0.0 - 0.5	2		
			0.5 - 5.0	3		
264 + 00	21.0 LT B/L	SR-997	0.0 - 0.8	2		
			0.8 - 10.0	3	5.4	
265 + 00	21.0 RT B/L	SR-997	0.0 - 0.4	2		
			0.4 - 5.0	3		

SOILS INFORMATION TABLE
PERFORMED BY FDOT FOR KROME AVENUE
FROM STATION 223+00 TO STATION 250+00

Fin. Project ID: 410643-1-52-01

SR-997 (Krome Avenue) From SW 296th Street to SW 288th Street

SOILS INFORMATION

Stratum 1 Light brown to gray silty sand with limerock fragments (fill)

Stratum 2 Yellow silty sand with limerock

Fin. Project ID: 410643-1-52-01

SR-997 (Krome Avenue) From SW 296th Street to SW 288th Street

SOILS INFORMATION

Sample	Station	Offset (ft)	Depth (ft)	Stratum	Water Table Depth (ft)	Comments
1	223+00	20.0' RT. C/L	0.0-0.7	1		
2			0.7-10.0	2	3.9	
	224+00	19.0' RT. C/L	0.0-0.7	1		
			0.7-5.0	2		
	225+00					Unable to do. Intersection SR 997 & 296 Street
	226+00	20.0' RT. C/L	0.0-1.2	1		
			1.2-5.0	2		
	227+00	20.0' LT. C/L	0.0-1.3	1		
			1.3-5.0	2		
	228+00	19.0' RT. C/L	0.0-1.2	1		
			1.2-5.0	2	4.7	
	229+00	19.0' LT. C/L	0.0-1.0	1		
			1.0-10.0	2	4.3	
	230+00	20.0' RT. C/L	0.0-1.0	1		
			1.0-5.0	2		
	231+00	19.0' LT. C/L	0.0-0.9	1		
			0.9-5.0	2		
	232+00	20.0' RT. C/L	0.0-1.1	1		
			1.1-5.0	2		
	233+00	20.0' LT. C/L	0.0-1.0	1		
			1.0-5.0	2		
	234+00	19.0' RT. C/L	0.0-1.1	1		
			1.1-10.0	2	4.8	
	235+00	20.0' LT. C/L	0.0-0.9	1		
			0.9-5.0	2	4.3	
	236+00	20.0' RT. C/L	0.0-0.9	1		
			0.9-5.0	2		

Fin. Project ID: 410643-1-52-01

SR-997 (Krome Avenue) From SW 296th Street to SW 288th Street

SOILS INFORMATION

Sample	Station	Offset (ft)	Depth (ft)	Stratum	Water Table Depth (ft)	Comments
	237+00	20.0' LT. C/L	0.0-2.9	1		Added fill, Driveway to Private Business
			2.9-5.0	2		
	238+00	19.0' RT. C/L	0.0-1.5	1		
			1.5-5.0	2		
	239+00	19.0' LT. C/L	0.0-1.0	1		
			1.0-10.0	2	4.3	
	240+00	20.0' RT. C/L	0.0-1.3	1		
			1.3-5.0	2		
	241+00	20.0' LT. C/L	0.0-0.8	1		
			0.8-5.0	2		
	242+00	19.0' RT. C/L	0.0-0.9	1		
			0.9-5.0	2		
	243+00	20.0' LT. C/L	0.0-1.5	1		
			1.5-5.0	2		
3	244+00	20.0' RT. C/L	0.0-1.6	1		
4			1.6-10.0	2	4.6	
	245+00	19.0' LT. C/L	0.0-1.0	1		
			1.0-5.0	2		
	246+00	20.0' RT. C/L	0.0-0.8	1		
			0.8-5.0	2		
	247+00	20.0' LT. C/L	0.0-0.7	1		
			0.7-5.0	2		
	248+00	23.0' RT. C/L	0.0-1.0	1		
			1.0-5.0	2		
	249+00	23.0' LT. C/L	0.0-1.0	1		
			1.0-10.0	2	4.3	
	250+00	27.0' RT. C/L	0.0-1.6	1		
			1.6-5.0	2		

---------- End of Soil Survey ----------

SOILS INFORMATION TABLE
PERFORMED BY FDOT FOR KROME AVENUE
FROM STATION 478+00 TO STATION 504+00

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 & 6 MATERIALS OFFICE

SUMMARY OF AUGER BORING RESULTS

Financial Project ID:	**249614-5-52-01**	**Date:**	**7/1/2003**
Project Location:	**Krome Avenue and Hainlin Mill Drive (SW 216 St.)**		

Soils Information

Stratum # 1 Tan sandy limerock fill

Stratum # 2 Tan silty sandy limerock fill

Stratum # 3 Tan silty sandy limestone

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 & 6 MATERIALS OFFICE

SUMMARY OF AUGER BORING RESULTS

Financial Project No.:	249614-5-52-01	Date:	7/1/2003
Project Location:	Krome Avenue and Hainlin Mill Drive (SW 216 St.)		

Station	Offset (ft)	Road No.	Depth (ft)	Stratum	Water Table Depth (ft)	Remarks
478 + 00	21.0 RT B/L SR-997		0.0 - 1.0	2		
			1.0 - 10.0	3	4.7	
479 + 00	21.0 LT B/L SR-997		0.0 - 1.0	2		
			1.0 - 5.0	3	4.2	
480 + 00	21.0 RT B/L SR-818		0.0 - 0.9	2		
			0.9 - 5.0	3	4.7	
481 + 00	21.0 LT B/L SR-997		0.0 - 1.0	2		
			1.0 - 5.0	3	4.6	
482 + 00	21.0 RT B/L SR-997		0.0 - 0.7	2		
			0.7 - 5.0	3	4.6	
483 + 00	21.0 LT B/L SR-997		0.0 - 0.9	2		
			0.9 - 10.0	3	5.2	
484 + 00	21.0 RT B/L SR-997		0.0 - 1.2	2		
			1.2 - 5.0	3	4.7	
485 + 00	21.0 LT B/L SR-997		0.0 - 0.4	2		
			0.4 - 5.0	3		
486 + 00	21.0 RT B/L SR-997		0.0 - 0.4	1		
			0.4 - 1.1	2		
			1.1 - 5.0	3	4.8	
487 + 00	21.0 LT B/L SR-997		0.0 - 0.9	2		
			0.9 - 5.0	3	4.9	

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 & 6 MATERIALS OFFICE

SUMMARY OF AUGER BORING RESULTS

Financial Project No.:	249614-5-52-01	Date:	7/1/2003
Project Location:	Krome Avenue and Hainlin Mill Drive (SW 216 St.)		

Station	Offset (ft)	Road No.	Depth (ft)	Stratum	Water Table Depth (ft)	Remarks
488 + 00	21.0 RT B/L SR-997		0.0 - 0.6	1		
			0.6 - 1.2	2		
			1.2 - 10.0	3	4.9	
489 + 00	21.0 LT B/L SR-997		0.0 - 0.9	2		
			0.9 - 5.0	3	4.9	
490 + 00	21.0 RT B/L SR-997		0.0 - 0.7	1		
			0.7 - 1.4	2		
			1.4 - 5.0	3	4.9	
493 + 00	21.0 RT B/L SR-997		0.0 - 1.0	2		
			1.0 - 10.0	3	4.8	
494 + 00	21.0 LT B/L SR-997		0.0 - 0.8	2		
			0.8 - 5.0	3	4.9	
495 + 00	21.0 RT B/L SR-997		0.0 - 0.9	2		
			0.9 - 5.0	3	4.9	
496 + 00	21.0 LT B/L SR-997		0.0 - 0.8	2		
			0.8 - 5.0	3	4.9	
497 + 00	21.0 RT B/L SR-997		0.0 - 1.2	2		
			1.2 - 1.5	3	4.9	
498 + 00	21.0 LT B/L SR-997		0.0 - 0.7	2		
			0.7 - 10.0	3	4.6	
499 + 00	21.0 RT B/L SR-997		0.0 - 0.4	1		
			0.4 - 1.2	2		
			1.2 - 5.0	3		

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 & 6 MATERIALS OFFICE

SUMMARY OF AUGER BORING RESULTS

Financial Project No.:	249614-5-52-01	Date:	7/1/2003
Project Location:	Krome Avenue and Hainlin Mill Drive (SW 216 St.)		

Station	Offset (ft)	Road No.	Depth (ft)	Stratum	Water Table Depth (ft)	Remarks
500 + 00	21.0 LT B/L SR-997		0.0 - 0.6	2		
			0.6 - 5.0	3	4.7	
501 + 00	21.0 RT B/L SR-997		0.0 - 0.6	1		
			0.6 - 1.1	2		
			1.1 - 5.0	3	4.9	
502 + 00	21.0 LT B/L SR-997		0.0 - 1.0	2		
			1.0 - 5.0	3	4.3	
503 + 00	21.0 RT B/L SR-997		0.0 - 0.7	1		
			0.7 - 1.2	2		
			1.2 - 10.0	3	4.9	
504 + 00	21.0 LT B/L SR-997		0.0 - 0.8	2		
			0.8 - 5.0	3	4.9	

SOILS INFORMATION TABLE
PERFORMED BY FDOT FOR KROME AVENUE
FROM STATION 531+00 TO STATION 557+00

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 & 6 MATERIALS OFFICE

SUMMARY OF AUGER BORING RESULTS

Financial Project ID:	**249614-5-52-01**	**Date:**	**6/30/2003**
Project Location:	**Krome Avenue and Quail Roost Drive (SW 200 St.)**		

Soils Information

Stratum # 1 Tan sandy limerock (fill)

Stratum # 2 Tan silty sandy limerock (fill)

Stratum # 3 Tan silty sandy limestone

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 & 6 MATERIALS OFFICE

SUMMARY OF AUGER BORING RESULTS

Financial Project No.:	249614-5-52-01	Date:	6/30/2003
Project Location:	Krome Avenue and Quail Roost Drive (SW 200 St.)		

Station	Offset (ft)		Road No.	Depth (ft)	Stratum	Water Table Depth (ft)	Remarks
531 + 00	21.0	RT B/L	SR-997	0.0 - 0.6	1		
				0.6 - 1.3	2		
				1.3 - 10.0	3	4.0	
532 + 00	21.0	LT B/L	SR-997	0.0 - 1.2	2		
				1.2 - 5.0	3	4.1	
533 + 00	21.0	RT B/L	SR-997	0.0 - 0.3	1		
				0.3 - 1.4	2		
				1.4 - 5.0	3	4.0	
534 + 00	21.0	LT B/L	SR-997	0.0 - 0.9	2		
				0.9 - 5.0	3	3.7	
535 + 00	21.0	RT B/L	SR-997	0.0 - 0.9	1		
				0.9 - 2.6	2		
				2.6 - 5.0	3	4.5	
536 + 00	21.0	LT B/L	SR-997	0.0 - 0.7	2		
				0.7 - 10.0	3	3.7	
537 + 00	21.0	RT B/L	SR-997	0.0 - 0.7	1		
				0.7 - 1.5	2		
				1.5 - 5.0	3	3.8	
538 + 00	21.0	LT B/L	SR-997	0.0 - 1.0	2		
				1.0 - 5.0	3	4.2	
539 + 00	20.0	RT B/L	SR-997	0.0 - 0.4	1		
				0.4 - 1.6	2		
				1.6 - 5.0	3	4.4	

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 & 6 MATERIALS OFFICE

SUMMARY OF AUGER BORING RESULTS

Financial Project No.:	249614-5-52-01	Date:	6/30/2003
Project Location:	Krome Avenue and Quail Roost Drive (SW 200 St.)		

Station	Offset (ft)		Road No.	Depth (ft)	Stratum	Water Table Depth (ft)	Remarks
540 + 00	21.0	LT B/L	SR-997	0.0 - 0.3	1		
				0.3 - 4.0	2		
				4.0 - 5.0	3	4.4	
541 + 00	21.0	RT B/L	SR-997	0.0 - 0.9	1		
				0.9 - 2.0	2		
				2.0 - 10.0	3	4.5	
542 + 00	21.0	LT B/L	SR-997	0.0 - 0.7	1		
				0.7 - 1.5	2		
				1.5 - 5.0	3	4.6	
543 + 00	20.0	RT B/L	SR-997	0.0 - 0.9	1		
				0.9 - 2.0	2		
				2.0 - 5.0	3	4.4	
545 + 00	21.0	RT B/L	SR-997	0.0 - 0.3	1		
				0.3 - 1.2	2		
				1.2 - 5.0	3	4.6	
546 + 00	21.0	LT B/L	SR-997	0.0 - 1.0	2		
				1.0 - 10.0	3	4.9	
547 + 00	21.0	RT B/L	SR-997	0.0 - 0.3	1		
				0.3 - 1.3	2		
				1.3 - 5.0	3	3.7	
548 + 00	21.0	RT B/L	SR-997	0.0 - 1.3	2		
				1.3 - 5.0	3	4.5	
549 + 00	21.0	RT B/L	SR-997	0.0 - 0.3	1		
				0.3 - 1.6	2		
				1.6 - 5.0	3	4.4	

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 & 6 MATERIALS OFFICE

SUMMARY OF AUGER BORING RESULTS

Financial Project No.:	249614-5-52-01	Date:	6/30/2003
Project Location:	Krome Avenue and Quail Roost Drive (SW 200 St.)		

Station	Offset (ft)		Road No.	Depth (ft)	Stratum	Water Table Depth (ft)	Remarks
550 + 00	21.0	LT B/L	SR-997	0.0 - 2.5	2		
				2.5 - 5.0	3	4.9	
551 + 00	21.0	RT B/L	SR-997	0.0 - 0.4	1		
				0.4 - 0.9	2		
				0.9 - 10.0	3	4.4	
552 + 00	21.0	LT B/L	SR-997	0.0 - 0.3	1		
				0.3 - 1.4	2		
				1.4 - 5.0	3	4.2	
553 + 00	21.0	RT B/L	SR-997	0.0 - 1.0	1		
				1.0 - 2.0	2		
				2.0 - 5.0	3	4.3	
554 + 00	21.0	LT B/L	SR-997	0.0 - 1.0	2		
				1.0 - 5.0	3	4.2	
555 + 00	21.0	RT B/L	SR-997	0.0 - 0.4	1		
				0.4 - 1.4	2		
				1.4 - 5.0	3	4.2	
556 + 00	21.0	LT B/L	SR-997	0.0 - 2.0	2		
				2.0 - 10.0	3	4.2	
557 + 00	21.0	RT B/L	SR-997	0.0 - 0.3	1		
				0.3 - 1.9	2		
				1.9 5.0	3	4.1	

SOILS INFORMATION TABLE
PERFORMED BY FDOT FOR KROME AVENUE
FROM STATION 585+00 TO STATION 611+00

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 & 6 MATERIALS OFFICE

SUMMARY OF AUGER BORING RESULTS

Financial Project ID:	**249614-5-52-01**	**Date:**	**6/26/2003**
Project Location:	**Krome Avenue and Eureka Drive (SW 184 St.)**		

Soils Information

Stratum # 1 Tan sandy limerock fill

Stratum # 2 Tan silty sandy limerock fill

Stratum # 3 Tan silty sandy limestone

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 & 6 MATERIALS OFFICE

SUMMARY OF AUGER BORING RESULTS

Financial Project No.:	249614-5-52-01	Date:	6/26/2003
Project Location:	Krome Avenue and Eureka Drive (SW 184 St.)		

Station	Offset (ft)	Road No.	Depth (ft)	Stratum	Water Table Depth (ft)	Remarks
me Avenue and Eureka Drive						
585 + 00	20.0 RT B/L	SR-997	0.0 - 0.6	1		
			0.6 - 1.0	2		
			1.0 10.0	3	4.2	
586 + 00	21.0 LT B/L	SR-997	0.0 - 1.0	2		
			1.0 5.0	3	4.2	
587 + 00	20.0 RT B/L	SR-997	0.0 - 0.5	1		
			0.5 - 1.7	2		
			1.7 - 5.0	3	4.3	
588 + 00	20.0 LT B/L	SR-997	0.0 - 1.1	2		
			1.1 - 5.0	3	3.8	
589 + 00	20.0 RT B/L	SR-997	0.0 - 0.6	1		
			0.6 - 1.0	2		
			1.0 - 5.0	3	4.4	
590 + 00	21.0 LT B/L	SR-997	0.0 - 1.3	2		
			1.3 - 10.0	3	4.3	
591 + 00	21.0 RT CL	SR-997	0.0 - 0.3	1		
			0.3 - 1.2	2		
			1.2 - 5.0	3	3.9	
592 + 00	20.0 LT B/L	SR-997	0.0 - 1.1	2		
			1.1 - 5.0	3	4.0	
593 + 00	20.0 RT B/L	SR-997	0.0 - 0.2	1		
			0.2 - 0.7	2		
			0.7 - 5.0	3	4.0	

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 & 6 MATERIALS OFFICE

SUMMARY OF AUGER BORING RESULTS

Financial Project No.:	249614-5-52-01	Date:	6/26/2003
Project Location:	Krome Avenue and Eureka Drive (SW 184 St.)		

Station	Offset (ft)	Road No.	Depth (ft)	Stratum	Water Table Depth (ft)	Remarks
594 + 00	20.0 LT B/L	SR-997	0.0 - 1.2	2		
			1.2 - 5.0	3	4.0	
595 + 00	20.0 RT B/L	SR-997	0.0 - 0.6	1		
			0.6 - 1.0	2		
			1.0 - 10.0	3	3.8	
596 + 00	20.0 LT B/L	SR-997	0.0 - 1.1	2		
			1.1 - 5.0	3	4.3	
597 + 00	21.0 RT B/L	SR-997	0.0 - 0.5	1		
			0.5 - 1.0	2		
			1.0 - 5.0	3	4.1	
598 + 00	21.0 LT B/L	SR-997	0.0 - 1.0	2		
			1.0 - 5.0	3	4.5	
599 + 00	21.0 RT B/L	SR-997	0.0 - 0.3	1		
			0.3 - 1.3	2		
			1.3 - 5.0	3	3.7	
600 + 00	21.0 LT B/L	SR-997	0.0 - 1.0	2		
			1.0 - 10.0	3	4.2	
601 + 00	21.0 RT B/L	SR-997	0.0 - 1.0	1		
			1.0 - 1.8	2		
			1.8 - 5.0	3	3.9	
602 + 00	21.0 LT B/L	SR-997	0.0 - 1.1	2		
			1.1 - 5.0	3	4.3	

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 & 6 MATERIALS OFFICE

SUMMARY OF AUGER BORING RESULTS

Financial Project No.:	249614-5-52-01	Date:	6/26/2003
Project Location:	Krome Avenue and Eureka Drive (SW 184 St.)		

Station	Offset (ft)	Road No.	Depth (ft)	Stratum	Water Table Depth (ft)	Remarks
603 + 00	21.0 RT B/L	SR-997	0.0 - 1.0	1		
			1.0 - 1.7	2		
			1.7 - 5.0	3	3.9	
604 + 00	21.0 LT B/L	SR-997	0.0 - 1.1	2		
			1.1 - 5.0	3	4.1	
605 + 00	21.0 RT B/L	SR-997	0.0 - 0.6	1		
			0.6 - 1.1	2		
			1.1 - 10.0	3	4.3	
606 + 00	21.0 LT B/L	SR-997	0.0 - 1.1	2		
			1.0 - 5.0	3	3.9	
607 + 00	21.0 RT B/L	SR-997	0.0 - 0.3	1		
			0.3 - 1.1	2		
			1.1 - 5.0	3	3.7	
608 + 00	21.0 LT B/L	SR-997	0.0 - 1.0	2		
			1.0 - 5.0	3		
609 + 00	21.0 RT B/L	SR-997	0.0 - 0.4	1		
			0.4 - 1.3	2		
			1.3 - 5.0	3	3.7	
610 + 00	21.0 LT B/L	SR-997	0.0 - 1.1	2		
			1.1 - 10.0	3	3.6	
611 + 00	21.0 RT B/L	SR-997	0.0 - 1.1	2		
			1.1 - 5.0	3	3.3	

SOILS INFORMATION TABLE
PERFORMED BY FDOT FOR KROME AVENUE
FROM STATION 293+00 TO STATION 768+00

SOILS INFORMATION:

Stratum #1 – Brown silty sand trace of limestone fragments
Stratum #2 – Brown sandy silt (marl) trace of limestone fragments
Stratum #3 – Pale brown to gray and light gray sandy limestone with some silt
Stratum #4 – Tan sandy limerock (fill)

NOTE: -THREE DIGIT STATIONS: TAKEN FROM CENTER LINE OF KROME AVENUE.
-ONE DIGIT STATIONS: TAKEN FROM CENTER LINE OF INTERSECTING ROADS.

SOILS INFORMATION:

Intersection of S.W. 272nd Street and Krome Avenue

Sample	Station	Offset (Ft.)	Depth (Ft.)	Stratum	Water Table (Ft.)
	293+00	21.0' RT. C/L	0.0-1.3 1.3-10.0	1 3	6.8
	294+00	18.8' LT. C/L	0.0-1.7 1.7-5.0	1 3	
	295+00	21.2' RT. C/L	0.0-1.3 1.3-5.0	2 3	
	296+00	18.5' LT. C/L	0.0-1.4 1.4-5.0	1 3	
	297+00	21.5' RT. C/L	0.0-1.5 1.5-5.0	2 3	
	298+00	18.5' LT. C/L	0.0-2.6 2.6-10.0	1 3	6.4
	299+00	20.0' RT. C/L	0.0-1.5 1.5-5.0	2 3	
	300+00	18.7' LT. C/L	0.0-1.3 1.3-5.0	1 3	
	301+00	20.1' RT. C/L	0.0-1.3 1.3-5.0	2 3	
	302+00	18.5' LT. C/L	0.0-1.0 1.0-5.0	1 3	
	303+00	20.0' RT. C/L	0.0-1.4 1.4-10.0	1 3	6.8
	304+00	18.6' LT. C/L	0.0-1.1 1.1-5.0	2 3	
	305+00	20.1' RT. C/L	0.0-1.5 1.5-5.0	2 3	

Intersection of S.W. 272nd Street and Krome Avenue

Sample	Station	Offset (Ft.)	Depth (Ft.)	Stratum	Water Table (Ft.)
	306+00	19.8' LT. C/L	0.0-4.0	2	
			4.0-5.0	3	
	307+00	20.2' RT. C/L	0.0-1.2	1	
			1.2-5.0	3	
	308+00	19.5' LT. C/L	0.0-2.0	2	
			2.0-10.0	3	5.0
	309+00	20.0' RT. C/L	0.0-1.4	1	
			1.4-5.0	3	
	310+00	20.0' LT. C/L	0.0-2.7	2	
			2.7-5.0	3	
	311+00	20.0' RT. C/L	0.0-0.6	4	
			0.6-1.7	1	
			1.7-5.0	3	
	312+00	20.4' LT. C/L	0.0-1.4	2	
			1.4-5.0	3	
	313+00	20.2' RT. C/L	0.0-0.4	4	
			0.4-1.4	2	6.5
			1.4-10.0	3	
	314+00	20.5' LT. C/L	0.0-1.2	2	
			1.2-5.0	3	
	315+00	20.0' RT. C/L	0.0-0.6	4	
			0.6-1.3	2	
			1.3-5.0	3	
	316+00	21.0' LT. C/L	0.0-1.7	2	
			1.7-5.0	3	
	317+00	20.1' RT. C/L	0.0-0.4	4	
			0.4-1.0	1	
			1.0-5.0	3	

SOILS INFORMATION:

Intersection of S.W. 272nd Street and Krome Avenue

Sample	Station	Offset (Ft.)	Depth (Ft.)	Stratum	Water Table (Ft.)
	0+00	15.0' LT. C/L	0.0-1.0 1.0-10.0	1 3	4.8
	1+00	15.0' LT. C/L	0.0-0.8 0.8-5.0	1 3	4.8
	2+00	15.0' LT. C/L	0.0-0.7 0.7-5.0	1 3	

Sta. 4+00- 6+00 Unable To Do. Utility Conflict on both sides of roadway

SOILS INFORMATION:

Intersection of S.W. 256th Street and Krome Avenue

Sample	Station	Offset (Ft.)	Depth (Ft.)	Stratum	Water Table (Ft.)
	348+00	20.5' RT. C/L	0.0-3.2 3.2-10.0	1 3	5.8
	349+00	20.5' LT. C/L	0.0-1.1 1.1-5.0	1 3	
	350+00	19.7' RT. C/L	0.0-2.4 2.4-5.0	1 3	
	351+00	20.3' LT. C/L	0.0-1.2 1.2-5.0	1 3	
	352+00	19.5' RT. C/L	0.0-2.0 2.0-5.0	1 3	
	353+00	20.6' LT. C/L	0.0-1.4 1.4-10.0	1 3	5.7
	354+00	20.0' RT. C/L	0.0-1.7 1.7-5.0	1 3	
	355+00	20.6' RT. C/L	0.0-1.2 1.2-5.0	1 3	
	356+00	19.1' RT. C/L	0.0-1.7 1.7-5.0	1 3	
	357+00	20.0' LT. C/L	0.0-1.7 1.7-5.0	1 3	
	358+00	INTERSECTION CONFLICT			
	359+00	20.5' LT. C/L	0.0-1.1 1.1-5.0	1 3	
	360+00	20.1' LT. C/L	0.0-1.6 1.6-5.0	1 3	

Intersection of S.W. 256th Street and Krome Avenue

Sample	Station	Offset (Ft.)	Depth (Ft.)	Stratum	Water Table (Ft.)
	361+00	20.0' LT. C/L	0.0-1.2 1.2-5.0	1 3	
	362+00	21.2' LT. C/L	0.0-0.8 0.8-5.0	1 3	
	363+00	21.2' LT. C/L	0.0-1.2 1.2-10.0	1 3	5.8
	364+00	21.0' LT. C/L	0.0-1.4 1.4-5.0	1 3	
	365+00	21.2' LT. C/L	0.0-1.3 1.3-5.0	1 3	
	366+00	21.0' LT. C/L	0.0-1.2 1.2-5.0	1 3	
	367+00	21.1' LT. C/L	0.0-1.2 1.2-5.0	1 3	
	368+00	21.1' LT. C/L	0.0-2.3 2.3-10.0	1 3	5.6
	369+00	20.7' LT. C/L	0.0-1.4 1.4-5.0	1 3	
	370+00	20.6' LT. C/L	0.0-1.6 1.6-5.0	1 3	
	0+00	12.0' RT. C/L	0.0-1.3 1.3-10.0	1 3	6.7
	1+00	12.0' RT. C/L	0.0-1.4 1.4-5.0	1 3	
	2+00	12.0' RT. C/L	0.0-0.5 0.5-5.0	1 3	

SOILS INFORMATION:

Intersection of S.W. 256th Street and Krome Avenue

Sample	Station	Offset (Ft.)	Depth (Ft.)	Stratum	Water Table (Ft.)
	4+00	12.0' RT. C/L	0.0-1.0	1	
			1.0-5.0	3	
	5+00	12.0' LT. C/L	0.0-1.0	2	
			1.0-5.0	3	
	6+00	12.0' LT. C/L	0.0-1.0	2	
			1.0-10.0	3	6.5

Intersection of S.W. 192nd Street and Krome Avenue

Sample	Station	Offset (Ft.)	Depth (Ft.)	Stratum	Water Table (Ft.)
	559+00	18.7' RT. C/L	0.0-1.2	1	
			1.2-5.0	3	
	560+00	19.1' LT. C/L	0.0-0.6	4	
			0.6-1.4	2	
			1.4-5.0	3	
	561+00	18.5' RT. C/L	0.0-0.6	4	
			0.6-5.0	3	
	562+00	19.0' LT. C/L	0.0-0.9	4	
			0.9-1.2	2	
			1.2-5.0	3	
	563+00	18.0' RT. C/L	0.0-0.6	4	
			0.6-5.0	3	5.8
	564+00	18.2' LT. C/L	0.0-0.4	4	
			0.4-1.6	2	5.5
			1.6-10.0	3	
	565+00	18.9' RT. C/L	0.0-2.4	1	
			2.4-5.0	3	
	566+00	19.2' LT. C/L	0.0-0.7	4	
			0.7-2.4	2	
			2.4-5.0	3	
	567+00	18.5' RT. C/L	0.0-1.0	1	
			1.0-5.0	3	
	568+00	19.1' LT. C/L	0.0-1.2	2	
			1.2-5.0	3	
	569+00	18.2' RT. C/L	0.0-0.7	1	
			0.7-10.0	3	5.1
	570+00	19.4' LT. C/L	0.0-1.0	2	
			1.0-5.0	3	
	571+00	INTERSECTION CONFLICT			

Intersection of S.W. 192nd Street and Krome Avenue

Sample	Station	Offset (Ft.)	Depth (Ft.)	Stratum	Water Table (Ft.)
	572+00	18.1' LT. C/L	0.0-1.0	2	
			1.0-5.0	3	
	573+00	19.3' RT. C/L	0.0-1.0	4	
			1.0-5.0	3	
	574+00	18.9' LT. C/L	0.0-1.0	2	
			1.0-10.0	3	5.7
	575+00	19.0' RT. C/L	0.0-0.3	4	
			0.3-2.2	1	
			2.2-5.0	3	
	576+00	18.2' LT. C/L	0.0-0.7	2	
			0.7-5.0	3	
	577+00	19.2' RT. C/L	0.0-1.0	4	
			1.0-5.0	3	
	578+00	19.0' LT. C/L	0.0-1.0	2	
			1.0-5.0	3	
	579+00	19.5' RT. C/L	0.0-1.0	4	
			1.0-10.0	3	5.4

Intersection of S.W. 192nd Street and Krome Avenue

Sample	Station	Offset (Ft.)	Depth (Ft.)	Stratum	Water Table (Ft.)
	580+00	19.0' LT. C/L	0.0-1.0 1.0-5.0	2 3	
	581+00	21.0' RT. C/L	0.0-0.3 0.3-5.0	4 3	
	582+00	19.5' LT. C/L	0.0-5.0	3	
	583+00	19.0' RT. C/L	0.0-0.6 0.6-5.0	4 3	
	0+00	13.0' LT. C/L	0.0-0.4 0.4-10.0	2 3	5.7
	1+00	13.0' LT. C/L	0.0-0.7 0.7-5.0	2 3	
	2+00	13.0' LT. C/L	0.0-1.8 1.8-5.0	1 3	
	4+00	12.0' RT. C/L	0.0-0.8 0.8-5.0	2 3	
	5+00	13.0' RT. C/L	0.0-0.7 0.7-10.0	2 3	5.9

Intersection of S.W. 168th Street and Krome Avenue

Sample	Station	Offset (Ft.)	Depth (Ft.)	Stratum	Water Table (Ft.)
	638+00	22.4' RT. C/L	0.0-1.0	4	
			1.0-1.8	1	5.5
			1.8-6.0	2	
			6.0-8.0	3	
	639+00	22.5' RT. C/L	0.0-0.7	4	
			0.7-2.8	1	
			2.8-5.0	3	
	640+00	22.0' RT. C/L	0.0-1.0	4	
			1.0-3.0	1	5.7
			3.0-7.0	2	
			7.0-10.0	3	
	641+00	22.1' RT. C/L	0.0-0.8	4	
			0.8-1.8	1	
			1.8-5.0	3	
	642+00	21.8' RT. C/L	0.0-1.0	4	
			1.0-3.0	1	5.0
			3.0-5.0	3	
	643+00	21.5' RT. C/L	0.0-1.0	4	
			1.0-3.0	1	
			3.0-5.0	3	
	644+00	22.0' RT. C/L	0.0-1.0	4	
			1.0-7.5	1	4.8
			7.5- 10.0	3	
	645+00	22.2' RT. C/L	0.0-1.0	4	
			1.0-3.0	1	
			3.0-5.0	3	
	646+00	19.1' RT. C/L	0.0-1.0	4	
			1.0-5.0	3	

Intersection of S.W. 168th Street and Krome Avenue

Sample	Station	Offset (Ft.)	Depth (Ft.)	Stratum	Water Table (Ft.)
	647+00	19.3' RT. C/L	0.0-1.0	4	
			1.0-3.8	1	
			3.8-5.0	3	
	648+00	20.0' RT. C/L	0.0-1.0	4	
			1.0-7.0	1	6.1
			7.0-12.0	3	
			12.0-	3 Cap Rock	
	649+00	20.2' RT. C/L	0.0-1.0	4	
			1.0-2.5	1	
			2.5-5.0	3	
	650+00	20.0' RT. C/L	0.0-1.0	4	
			1.0-6.0	1	5.7
			6.0-10.0	3	
	651+00	20.3' RT. C/L	0.0-1.0	4	
			1.0-2.4	1	
			2.4-5.0	3	
	652+00	20.3' RT. C/L	0.0-1.0	4	
			1.0-7.0	1	6.0
			7.0-10.0	3	
	653+00	20.3' RT. C/L	0.0-1.0	4	
			1.0-3.0	1	
			3.0-5.0	3	
	654+00	19.8' RT. C/L	0.0-1.0	4	
			1.0-5.0	3	
	655+00	COMMERCIAL DRIVE WAY			
	656+00	20.4' RT. C/L	0.0-1.0	1	
			1.0-5.0	3	
	657+00	20.2' RT. C/L	0.0-0.8	4	
			0.8-1.7	1	
			1.7-5.0	3	

Intersection of S.W. 168th Street and Krome Avenue

Sample	Station	Offset (Ft.)	Depth (Ft.)	Stratum	Water Table (Ft.)
	658+00	20.7' RT. C/L	0.0-1.0	4	
			1.0-2.0	1	6.1
			2.0-10.0	3	
	659+00	21.0' RT. C/L	0.0-1.0	4	
			1.0-2.0	1	
			2.0-5.0	3	
	660+00	21.0' RT. C/L	0.0-1.0	1	
			1.0-5.0	3	
	661+00	21.1' RT. C/L	0.0-1.0	1	
			1.0-5.0	3	
	662+00	20.1' RT. C/L	0.0-1.0	1	
			1.0-10.0	3	6.0
	663+00	20.3' RT. C/L	0.0-1.0	1	
			1.0-5.0	3	
	664+00	20.3' RT. C/L	0.0-1.0	1	
			1.0-5.0	3	
	0+00	12.0' RT. C/L	0.0-2.0	1	
			2.0-10.0	3	6.5
	1+00	15.0' LT. C/L	0.0-1.0	1	
			1.0-5.0	3	
	2+00	12.0' RT. C/L	0.0-1.0	1	
			1.0-5.0	3	
	4+00	12.0' RT. C/L	0.0-1.0	1	
			1.0-5.0	3	
	5+00	12.0' RT. C/L	0.0-2.0	2	
			2.0-5.0	3	
	6+00	12.0' RT. C/L	0.0-2.0	2	
			2.0-10.0	3	5.6

Intersection of S.W. 136th Street and Krome Avenue`

Sample	Station	Offset (Ft.)	Depth (Ft.)	Stratum	Water Table (Ft.)
	744+00	22.4 RT. C/L	0.0-5.0	1	
			5.0-10.2	2	4.5
			10.2-	3 Cap Rock	
	745+00	31.5' LT. C/L	0.0-1.0	1	
			1.0-2.9	2	3.8
			2.9-5.0	3	
1	746+00	22.5' RT. C/L	0.0-5.0	1	
2			5.0-10.0	2	4.4
			10.0-	3 Cap Rock	
	747+00	31.5' LT. C/L	0.0-1.0	1	
			1.0-3.6	2	3.8
			3.6-5.0	3	
	748+00	22.6' RT. C/L	0.0-4.0	1	
			4.0-10.5	2	4.6
			10.5-	3 Cap Rock	
	749+00	31.6' LT. C/L	0.0-1.4	2	
			1.4-5.0	3	3.8
	750+00	22.4' RT. C/L	0.0-4.0	1	
			4.0-10.5	2	4.6
			10.5-	3 Cap Rock	
	751+00	31' LT. C/L	0.0-1.0	2	
			1.0-9.0	3	4.1
			9.0-	3 Cap Rock	
	752+00	21.8' RT. C/L	0.0-4.0	1	
			4.0-7.0	2	4.7
			7.0-10.0	3	
	753+00	31.3' LT. C/L	0.0-1.4	2	
			1.4-5.0	3	2.9

Intersection of S.W. 136th Street and Krome Avenue

Sample	Station	Offset (Ft.)	Depth (Ft.)	Stratum	Water Table (Ft.)
	754+00	21.9' RT. C/L	0.0-0.9	4	
			0.9-4.0	1	4.6
			0.4-10.6	2	
			10.6-	3 Cap Rock	
	755+00	31.1' LT. C/L	0.0-1.0	1	
			1.0-5.0	3	3.7
	756+00	22.0' RT. C/L	0.0-1.0	4	
			1.0-4.0	1	4.5
			4.0-6.7	2	
			6.7-15.0	3	
	757+00	26.7' LT. C/L	0.0-1.0	1	
			1.0-3.0	2	3.4
			3.0-5.0	3	
	758+00	24.0' RT. C/L	0.0-1.0	4	
			1.0-3.0	1	3.9
			3.0-4.0	2	
			4.0-10.0	3	
	759+00	26.0' LT. C/L	0.0-1.7	1	
			1.7-2.6	2	3.4
			2.6-5.0	3	
	760+00	22.0' RT. C/L	0.0-1.0	4	
			1.0-3.0	1	4.7
			3.0-4.0	2	
			4.0-10.0	3	
	761+00	26.1' LT. C/L	0.0-2.1	2	
			2.1-5.0	3	2.8
	762+00	27.1' RT. C/L	0.0-4.0	1	
			4.0-8.0	2	3.9
			8.0-	3 Cap Rock	
	763+00	27.2' LT. C/L	0.0-2.4	2	
			2.4-5.0	3	3.5

Intersection of S.W. 136th Street and Krome Avenue

Sample	Station	Offset (Ft.)	Depth (Ft.)	Stratum	Water Table (Ft.)
	764+00	27.0' RT. C/L	0.0-3.9	1	
			3.9-5.0	3	2.1
	765+00	27.1' LT. C/L	0.0-0.8	1	
			0.8-5.0	3	3.2
	766+00	27.2' RT. C/L	0.0-3.0	1	
3			3.0-5.0	3	3.8
	767+00	27.2' LT. C/L	0.0-1.3	1	
			1.3-15.0	3	3.3
	768+00	27.0' RT. C/L	0.0-3.7	1	
			3.7-5.0	3	3.8
	1+00	19.0' LT. C/L	0.0-1.6	1	
			1.6-12.6	3	4.7
			12.6-	3 Cap Rock	
	2+00	19.0' LT. C/L	0.0-2.6	1	
			2.6-7.6	2	4.3
			7.6-10.0	3	
	3+00	19.7' LT. C/L	0.0-2.0	1	
			2.0-3.0	2	4.1
			3.0-5.0	3	
	4+00	12.0' RT. C/L	0.0-1.0	1	
			1.0-3.0	2	4.4
			3.0-5.0	3	
	5+00	12.0' LT. C/L	0.0-1.0	1	
			1.0-5.0	3	4.3

** END OF SOIL SURVEY **

TEST BORING RECORDS
PERFORMED BY GEOSOL FOR KROME AVENUE
FROM STATION 745+00 TO STATION 769+00

GEOSOL, Inc. MIAMI LAKES, FL	TEST BORING RECORD (ASTM D-1586)	BORING No.: B-1
PROJECT NAME: DESIGN/BUILD FOR SR 997 (KROME AVE.) ROADWAY IMPROVEMENTS		SHEET No. 1 OF 1
CLIENT: METRIC ENGINEERING		
BORING LOCATION: STATION (feet): 745+00 OFFSET (feet): 15 RT ELEVATION (ft): N/A		GEOSOL PROJECT No. 203255
GROUNDWATER (ft): 4.5		DATUM (ft): NGVD, 1929
		DATE START: 07 / 09 / 03
		DATE FINISH: 07 / 09 / 03
		DRILLER: Bruce S.
		EQUIP/HAMMER:B-53 / SAFETY

DATE	TIME	DEPTH (ft)	CASING L (ft)	TYPE	CASING	SAMPLE	CORE	TUBE
				DIA.(in)	3	1 - 3/8 ID		
				WT.(lbs)		140		
				FALL(in)		30		

DEPTH, ft	SAMPLE No.	SAMPLE TYPE	BLOWS / 6"	N Value (bpf)	STRATA #	MATERIAL DESCRIPTION	REMARKS
1	S-1		8 14 17 15	31	4	0 to 4': Dark Brown Slightly Silty Fine SAND with some Limerock Fragments (FILL; A-1-b)	
2							
3	S-2		10 8 6 6	14			
4							
5	S-3		6 4 5 7	9	3	4' to 8': Brown Sandy LIMESTONE (MIAMI LIMESTONE FORMATION)	
6							
7	S-4		14 10 15 12	25			BORING TERMINATED AT DEPTH OF 8 ft. BOREHOLE GROUTED
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

BLOWS/FT.	DENSITY
0-4	Very Loose
5-10	Loose
11-30	Medium Dense
31-50	Dense
> 50	Very Dense

BLOWS/FT.	CONSISTENCY
0-2	Very Soft
3-4	Soft
5-8	Medium Stiff
9-15	Stiff
16-30	Very Stiff
> 30	Hard

SAMPLE IDENTIFICATION

- H - Hand Auger
- S - Split Spoon
- T - Thin Wall Tube
- U - Undisturbed Piston
- C - Diamond Core
- W - Wash Sample

SYMBOL

- FILL
- SAND
- ORGANIC SOILS / MUCK
- SILT
- CLAY
- LIMESTONE
- SANDSTONE

GEOSOL, Inc.
MIAMI LAKES, FL

TEST BORING RECORD
(ASTM D-1586)

BORING No.: B-2

PROJECT NAME: DESIGN/BUILD FOR SR 997 (KROME AVE.) ROADWAY IMPROVEMENTS

SHEET No. 1 OF 1

CLIENT: METRIC ENGINEERING

BORING LOCATION: STATION (feet): 747+00 OFFSET (feet): 15 RT ELEVATION (ft): N/A

GEOSOL PROJECT No. 203255

GROUNDWATER (ft): 4.5

DATUM (ft): NGVD, 1929

DATE	TIME	DEPTH (ft)	CASING L (ft)	CASING	SAMPLE	CORE	TUBE
				TYPE	NW	SS		
				DIA.(in)	3	1 - 3/8 ID		
				WT.(lbs)		140		
				FALL(in)		30		

DATE START: 07 / 09 / 03

DATE FINISH: 07 / 09 / 03

DRILLER: Bruce S.

EQUIP./HAMMER:B-53 / SAFETY

DEPTH, ft	SAMPLE No.	SAMPLE TYPE	BLOWS / 6"	N Value (bpf)	STRATA #	MATERIAL DESCRIPTION	REMARKS
1	S-1		10 20 15 12	35	4	0 to 2': Brown Slightly Silty Fine SAND with some Limerock Fragments (FILL; A-1-b)	
2							
3	S-2		7 6 6 7	12	1	2' to 4': Brown Slightly Silty Fine SAND with Trace of Limerock Fragments (FILL; A-2-4)	
4							
5	S-3		4 2 2 4	4	2	4' to 6': Brown Sandy SILT with Trace of Roots (A-4)	
6							
7	S-4		6 9 8 10	17	3	6' to 8': Brown Sandy LIMESTONE (MIAMI LIMESTONE FORMATION)	BORING TERMINATED AT DEPTH OF 8 ft. BOREHOLE GROUTED
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

BLOWS/FT.	DENSITY
0-4	Very Loose
5-10	Loose
11-30	Medium Dense
31-50	Dense
> 50	Very Dense

BLOWS/FT.	CONSISTENCY
0-2	Very Soft
3-4	Soft
5-8	Medium Stiff
9-15	Stiff
16-30	Very Stiff
> 30	Hard

SAMPLE IDENTIFICATION

- H - Hand Auger
- S - Split Spoon
- T - Thin Wall Tube
- U - Undisturbed Piston
- C - Diamond Core
- W - Wash Sample

SYMBOL

- FILL
- SAND
- ORGANIC SOILS / MUCK
- SILT
- CLAY
- LIMESTONE
- SANDSTONE

GEOSOL, Inc.
MIAMI LAKES, FL

TEST BORING RECORD
(ASTM D-1586)

BORING No.: B-3

PROJECT NAME: DESIGN/BUILD FOR SR 997 (KROME AVE.) ROADWAY IMPROVEMENTS

SHEET No. 1 OF 1

CLIENT: METRIC ENGINEERING

BORING LOCATION: STATION (feet): 749+00 OFFSET (feet): 20 RT ELEVATION (ft): N/A

GEOSOL PROJECT No. 203255

GROUNDWATER (ft): 4.7

DATUM (ft): NGVD, 1929

DATE	TIME	DEPTH (ft)	CASING L (ft)

	CASING	SAMPLE	CORE	TUBE
TYPE	NW	SS		
DIA.(in)	3	1 - 3/8 ID		
WT.(lbs)		140		
FALL(in)		30		

DATE START: 07/09/03

DATE FINISH: 07/09/03

DRILLER: Bruce S.

EQUIP/HAMMER:B-53 / SAFETY

DEPTH, ft	SAMPLE No.	SAMPLE TYPE	BLOWS / 6"	N Value (bpf)	STRATA #	MATERIAL DESCRIPTION	REMARKS
1	S-1		11 12 17 11	29	4	0 to 2': Brown Slightly Silty Fine SAND with some Limerock Fragments (FILL; A-1-b)	
2							
3	S-2		10 5 4 1	9	1	2' to 3.5': Brown Slightly Silty Fine SAND with Trace of Limerock Fragments (FILL; A-2-4)	
4							
5	S-3		1 1 1 6	2	2	3.5' to 5.5': Brown Sandy SILT (A-4)	
6							
7	S-4		10 9 8 12	17	3	5.5' to 8': Brown Sandy LIMESTONE (MIAMI LIMESTONE FORMATION)	BORING TERMINATED AT DEPTH OF 8 ft. BOREHOLE GROUTED
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

BLOWS/FT.	DENSITY
0-4	Very Loose
5-10	Loose
11-30	Medium Dense
31-50	Dense
> 50	Very Dense

BLOWS/FT.	CONSISTENCY
0-2	Very Soft
3-4	Soft
5-8	Medium Stiff
9-15	Stiff
16-30	Very Stiff
> 30	Hard

SAMPLE IDENTIFICATION

- H - Hand Auger
- S - Split Spoon
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SYMBOL

- FILL
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- SILT
- CLAY
- LIMESTONE
- SANDSTONE

GEOSOL, Inc.
MIAMI LAKES, FL

TEST BORING RECORD
(ASTM D-1586)

BORING No.: B-4

PROJECT NAME: DESIGN/BUILD FOR SR 997 (KROME AVE.) ROADWAY IMPROVEMENTS

SHEET No. 1 OF 1

CLIENT: METRIC ENGINEERING

BORING LOCATION: STATION (feet): 751+00 OFFSET (feet): 20 RT ELEVATION (ft): N/A

GEOSOL PROJECT No. 203255

GROUNDWATER (ft): 4.6

DATUM (ft): NGVD, 1929

DATE	TIME	DEPTH (ft)	CASING L (ft)

	CASING	SAMPLE	CORE	TUBE
TYPE	NW	SS		
DIA.(in)	3	1 - 3/8 ID		
WT.(lbs)		140		
FALL(in)		30		

DATE START: 07 / 09 / 03

DATE FINISH: 07 / 09 / 03

DRILLER: Bruce S.

EQUIP/HAMMER: B-53 / SAFETY

DEPTH, ft	SAMPLE No.	SAMPLE TYPE	BLOWS / 6"	N Value (bpf)	STRATA #	MATERIAL DESCRIPTION	REMARKS
1	S-1		10 21 19 8	40	4	0 to 1.5': Brown Slightly Silty Fine SAND with some Limerock Fragments (FILL; A-1-b)	
2							
3	S-2		7 5 1 1	6	1	1.5' to 4': Brown Slightly Silty Fine SAND with Trace of Limerock Fragments (FILL; A-2-4)	
4							
5	S-3		2 9 9 12	18	3	4' to 8': Light Brown Sandy LIMESTONE (MIAMI LIMESTONE FORMATION)	
6							
7	S-4		9 8 9 13	17			BORING TERMINATED AT DEPTH OF 8 ft. BOREHOLE GROUTED
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

BLOWS/FT.	DENSITY
0-4	Very Loose
5-10	Loose
11-30	Medium Dense
31-50	Dense
> 50	Very Dense

BLOWS/FT.	CONSISTENCY
0-2	Very Soft
3-4	Soft
5-8	Medium Stiff
9-15	Stiff
16-30	Very Stiff
> 30	Hard

SAMPLE IDENTIFICATION

- H - Hand Auger
- S - Split Spoon
- T - Thin Wall Tube
- U - Undisturbed Piston
- C - Diamond Core
- W - Wash Sample

SYMBOL

- FILL
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- SILT
- CLAY
- LIMESTONE
- SANDSTONE

GEOSOL, Inc.
MIAMI LAKES, FL

TEST BORING RECORD
(ASTM D-1586)

BORING No.: B-5

PROJECT NAME: DESIGN/BUILD FOR SR 997 (KROME AVE.) ROADWAY IMPROVEMENTS

SHEET No. 1 OF 1

CLIENT: METRIC ENGINEERING

BORING LOCATION: STATION (feet): 753+00 OFFSET (feet): 23 RT ELEVATION (ft): N/A

GEOSOL PROJECT No. 203255

GROUNDWATER (ft): 4.5

DATUM (ft): NGVD, 1929

DATE	TIME	DEPTH (ft)	CASING L (ft)

	CASING	SAMPLE	CORE	TUBE
TYPE	NW	SS		
DIA.(in)	3	1 - 3/8 ID		
WT.(lbs)		140		
FALL(in)		30		

DATE START: 07 / 09 / 03

DATE FINISH: 07 / 09 / 03

DRILLER: Bruce S.

EQUIP./HAMMER:B-53 / SAFETY

DEPTH, ft	SAMPLE No.	SAMPLE TYPE	BLOWS / 6"	N Value (bpf)	STRATA #	MATERIAL DESCRIPTION	REMARKS
1	S-1		20 26 16 18	42	4	0 to 2': Brown Slightly Silty Fine SAND with some Limerock Fragments (FILL; A-1-b)	
2							
3	S-2		10 8 3 1	11	1	2' to 3.5': Brown Slightly Silty Fine SAND with Trace of Limerock Fragments (FILL; A-2-4)	
4							
5	S-3		9 8 5 7	13	2	3.5' to 6': Brown Sandy SILT with Trace of Roots (A-4)	
6							
7	S-4		10 11 7 8	18	3	6' to 8': Brown Sandy LIMESTONE (MIAMI LIMESTONE FORMATION)	BORING TERMINATED AT DEPTH OF 8 ft. BOREHOLE GROUTED
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

BLOWS/FT	DENSITY
0-4	Very Loose
5-10	Loose
11-30	Medium Dense
31-50	Dense
> 50	Very Dense

BLOWS/FT.	CONSISTENCY
0-2	Very Soft
3-4	Soft
5-8	Medium Stiff
9-15	Stiff
16-30	Very Stiff
> 30	Hard

SAMPLE IDENTIFICATION

- H - Hand Auger
- S - Split Spoon
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- C - Diamond Core
- W - Wash Sample

SYMBOL

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- SILT
- CLAY
- LIMESTONE
- SANDSTONE

GEOSOL, Inc.
MIAMI LAKES, FL

TEST BORING RECORD
(ASTM D-1586)

BORING No.: B-6

PROJECT NAME: DESIGN/BUILD FOR SR 997 (KROME AVE.) ROADWAY IMPROVEMENTS

CLIENT: METRIC ENGINEERING

BORING LOCATION: STATION (feet): 755+00 OFFSET (feet): 22 RT ELEVATION (ft): N/A

GROUNDWATER (ft): 4.6

DATE	TIME	DEPTH (ft)	CASING L (ft)

	CASING	SAMPLE	CORE	TUBE
TYPE	NW	SS		
DIA.(in)	3	1 - 3/8 ID		
WT.(lbs)		140		
FALL(in)		30		

SHEET No. 1 OF 1

GEOSOL PROJECT No. 203255

DATUM (ft): NGVD, 1929

DATE START: 07 / 09 / 03

DATE FINISH: 07 / 09 / 03

DRILLER: Bruce S.

EQUIP./HAMMER:B-53 / SAFETY

DEPTH, ft	SAMPLE No.	SAMPLE TYPE	BLOWS / 6"	N Value (bpf)	STRATA #	MATERIAL DESCRIPTION	REMARKS
1	S-1		33 23 16 11	39	4	0 to 4': Brown Slightly Silty Fine SAND with some Limerock Fragments (FILL; A-1-b)	
2							
3	S-2		9 5 5 4	10			
4							
5	S-3		1 1 6 6	7	1	4' to 5': Brown Silty Fine SAND (A-4)	
6					3	5' to 8': Brown Sandy LIMESTONE (MIAMI LIMESTONE FORMATION)	
7	S-4		10 9 9 9	18			BORING TERMINATED AT DEPTH OF 8 ft. BOREHOLE GROUTED
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

BLOWS/FT	DENSITY
0-4	Very Loose
5-10	Loose
11-30	Medium Dense
31-50	Dense
> 50	Very Dense

BLOWS/FT.	CONSISTENCY
0-2	Very Soft
3-4	Soft
5-8	Medium Stiff
9-15	Stiff
16-30	Very Stiff
> 30	Hard

SAMPLE IDENTIFICATION

- H - Hand Auger
- S - Split Spoon
- T - Thin Wall Tube
- U - Undisturbed Piston
- C - Diamond Core
- W - Wash Sample

SYMBOL

- FILL
- SAND
- ORGANIC SOILS / MUCK
- SILT
- CLAY
- LIMESTONE
- SANDSTONE

GEOSOL, Inc.
MIAMI LAKES, FL

TEST BORING RECORD
(ASTM D-1586)

BORING No.: B-7

PROJECT NAME: DESIGN/BUILD FOR SR 997 (KROME AVE.) ROADWAY IMPROVEMENTS

SHEET No. 1 OF 1

CLIENT: METRIC ENGINEERING

BORING LOCATION: STATION (feet): 757+00 OFFSET (feet): 19 RT ELEVATION (ft): N/A

GROUNDWATER (ft): 4.3

GEOSOL PROJECT No. 203255

DATE	TIME	DEPTH (ft)	CASING L (ft)

	CASING	SAMPLE	CORE	TUBE
TYPE	NW	SS		
DIA.(in)	3	1 - 3/8 ID		
WT.(lbs)		140		
FALL(in)		30		

DATUM (ft): NGVD, 1929
DATE START: 07 / 09 / 03
DATE FINISH: 07 / 09 / 03
DRILLER: Bruce S.
EQUIP/HAMMER:B-53 / SAFETY

DEPTH, ft	SAMPLE No.	SAMPLE TYPE	BLOWS / 6"	N Value (bpf)	STRATA #	MATERIAL DESCRIPTION	REMARKS
1	S-1		25 26	46	4	0 to 4': Brown Slightly Silty Fine SAND with some Limerock Fragments (FILL; A-1-b)	
2			20 14				
3	S-2		8 7	12			
4			5 4				
5	S-3		4 4	11	3	4' to 8': Brown Sandy LIMESTONE (MIAMI LIMESTONE FORMATION)	
6			7 8				
7	S-4		9 11	22			BORING TERMINATED AT DEPTH OF 8 ft.
8			11 14				BOREHOLE GROUTED
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

BLOWS/FT	DENSITY
0-4	Very Loose
5-10	Loose
11-30	Medium Dense
31-50	Dense
> 50	Very Dense

BLOWS/FT	CONSISTENCY
0-2	Very Soft
3-4	Soft
5-8	Medium Stiff
9-15	Stiff
16-30	Very Stiff
> 30	Hard

SAMPLE IDENTIFICATION
- H - Hand Auger
- S - Split Spoon
- T - Thin Wall Tube
- U - Undisturbed Piston
- C - Diamond Core
- W - Wash Sample

SYMBOL
- FILL
- SAND
- ORGANIC SOILS / MUCK
- SILT
- CLAY
- LIMESTONE
- SANDSTONE

GEOSOL, Inc.
MIAMI LAKES, FL

TEST BORING RECORD
(ASTM D-1586)

BORING No.: B-8

PROJECT NAME: DESIGN/BUILD FOR SR 997 (KROME AVE.) ROADWAY IMPROVEMENTS

SHEET No. 1 OF 1

CLIENT: METRIC ENGINEERING

BORING LOCATION: STATION (feet): 759+00 OFFSET (feet): 21 RT ELEVATION (ft): N/A

GEOSOL PROJECT No. 203255

GROUNDWATER (ft): 4.6

DATUM (ft): NGVD, 1929

DATE	TIME	DEPTH (ft)	CASING L (ft)	CASING	SAMPLE	CORE	TUBE
				TYPE	NW	SS		
				DIA.(in)	3	1 - 3/8 ID		
				WT.(lbs)		140		
				FALL(in)		30		

DATE START: 07 / 09 / 03

DATE FINISH: 07 / 09 / 03

DRILLER: Bruce S.

EQUIP./HAMMER:B-53 / SAFETY

DEPTH, ft	SAMPLE No.	SAMPLE TYPE	BLOWS / 6"	N Value (bpf)	STRATA #	MATERIAL DESCRIPTION	REMARKS
1	S-1		45 26	50	4	0 to 2': Brown Slightly Silty Fine SAND with some Limerock Fragments (FILL; A-1-b)	
2			24 12				
3	S-2		8 6	11	1	2.0 to 3.5': Brown Slightly Silty Fine SAND with Trace of Limerock Fragments (FILL; A-2-4)	
4			5 4		2	3.5' to 4.5': Brown Silty Fine SAND with Trace of Limestone Fragments (A-2-4)	
5	S-3		2 3	8	3	4.5' to 8': Light Brown Sandy LIMESTONE (MIAMI LIMESTONE FORMATION)	
6			5 8				
7	S-4		9 10	20			BORING TERMINATED AT DEPTH OF 8 ft. BOREHOLE GROUTED
8			10 14				
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

BLOWS/FT.	DENSITY
0-4	Very Loose
5-10	Loose
11-30	Medium Dense
31-50	Dense
> 50	Very Dense

BLOWS/FT.	CONSISTENCY
0-2	Very Soft
3-4	Soft
5-8	Medium Stiff
9-15	Stiff
16-30	Very Stiff
> 30	Hard

SAMPLE IDENTIFICATION

- H - Hand Auger
- S - Split Spoon
- T - Thin Wall Tube
- U - Undisturbed Piston
- C - Diamond Core
- W - Wash Sample

SYMBOL

- FILL
- SAND
- ORGANIC SOILS / MUCK
- SILT
- CLAY
- LIMESTONE
- SANDSTONE

GEOSOL, Inc.
MIAMI LAKES, FL

TEST BORING RECORD
(ASTM D-1586)

BORING No.: B-9

PROJECT NAME: DESIGN/BUILD FOR SR 997 (KROME AVE.) ROADWAY IMPROVEMENTS
CLIENT: METRIC ENGINEERING
BORING LOCATION: STATION (feet): 761+00 OFFSET (feet): 21 RT ELEVATION (ft): N/A
GROUNDWATER (ft): 4.8

SHEET No. 1 OF 1
GEOSOL PROJECT No. 203255
DATUM (ft): NGVD, 1929
DATE START: 07 / 09 / 03
DATE FINISH: 07 / 09 / 03
DRILLER: Bruce S.
EQUIP/HAMMER:B-53 / SAFETY

DATE	TIME	DEPTH (ft)	CASING L (ft)	TYPE	CASING	SAMPLE	CORE	TUBE
				DIA.(in)	3	1 - 3/8 ID		
				WT.(lbs)		140		
				FALL(in)		30		

DEPTH, ft	SAMPLE No.	SAMPLE TYPE	BLOWS / 6"	N Value (bpf)	STRATA #	MATERIAL DESCRIPTION	REMARKS
1	S-1		10 14	27	4	0 to 2': Brown Slightly Silty Fine SAND with some Limerock Fragments (FILL; A-1-b)	
2			13 11				
3	S-2		12 3	9	3	2' to 6': Light Brown Sandy LIMESTONE (MIAMI LIMESTONE FORMATION)	
4			6 11				
5	S-3		13 7	14			BORING TERMINATED AT DEPTH OF 6 ft. BOREHOLE GROUTED
6			7 11				
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

BLOWS/FT	DENSITY
0-4	Very Loose
5-10	Loose
11-30	Medium Dense
31-50	Dense
> 50	Very Dense

BLOWS/FT	CONSISTENCY
0-2	Very Soft
3-4	Soft
5-8	Medium Stiff
9-15	Stiff
16-30	Very Stiff
> 30	Hard

SAMPLE IDENTIFICATION
- H - Hand Auger
- S - Split Spoon
- T - Thin Wall Tube
- U - Undisturbed Piston
- C - Diamond Core
- W - Wash Sample

SYMBOL
- FILL
- SAND
- ORGANIC SOILS / MUCK
- SILT
- CLAY
- LIMESTONE
- SANDSTONE

GEOSOL, Inc.
MIAMI LAKES, FL

TEST BORING RECORD
(ASTM D-1586)

BORING No.: B-10

PROJECT NAME: DESIGN/BUILD FOR SR 997 (KROME AVE.) ROADWAY IMPROVEMENTS

SHEET No. 1 OF 1

CLIENT: METRIC ENGINEERING

BORING LOCATION: STATION (feet): 763+00 OFFSET (feet): 21 RT ELEVATION (ft): N/A

GEOSOL PROJECT No. 203255

GROUNDWATER (ft): 4.0

DATUM (ft): NGVD, 1929

DATE	TIME	DEPTH (ft)	CASING	SAMPLE	CORE	TUBE
			L (ft)			
			DIA.(in)	3	1 - 3/8 ID	
			WT.(lbs)		140	
			FALL(in)		30	

DATE START: 07 / 09 / 03

DATE FINISH: 07 / 09 / 03

DRILLER: Bruce S.

EQUIP/HAMMER:B-53 / SAFETY

DEPTH, ft	SAMPLE No.	SAMPLE TYPE	BLOWS / 6"	N Value (bpf)	STRATA #	MATERIAL DESCRIPTION	REMARKS
1	S-1		4 8 8	16	5 1	0 to 6": Dark Brown Organic Silty Fine SAND (TOPSOIL; A-8) 6" to 1.5': Brown Slightly Silty Fine SAND with some Limerock Fragments (FILL; A-2-4)	
2			5				
3	S-2		6 4	7	3	1.5' to 6': Brown Sandy LIMESTONE (MIAMI LIMESTONE FORMATION)	
4			3 2				
5	S-3		4 6 7	13			BORING TERMINATED AT DEPTH OF 6 ft. BOREHOLE GROUTED
6			11				
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

BLOWS/FT.	DENSITY
0-4	Very Loose
5-10	Loose
11-30	Medium Dense
31-50	Dense
> 50	Very Dense

BLOWS/FT.	CONSISTENCY
0-2	Very Soft
3-4	Soft
5-8	Medium Stiff
9-15	Stiff
16-30	Very Stiff
> 30	Hard

SAMPLE IDENTIFICATION

- H - Hand Auger
- S - Split Spoon
- T - Thin Wall Tube
- U - Undisturbed Piston
- C - Diamond Core
- W - Wash Sample

SYMBOL

- FILL
- SAND
- ORGANIC SOILS / MUCK
- SILT
- CLAY
- LIMESTONE
- SANDSTONE

GEOSOL, Inc.
MIAMI LAKES, FL

TEST BORING RECORD
(ASTM D-1586)

BORING No.: B-11

PROJECT NAME: DESIGN/BUILD FOR SR 997 (KROME AVE.) ROADWAY IMPROVEMENTS

SHEET No. 1 OF 1

CLIENT: METRIC ENGINEERING

BORING LOCATION: STATION (feet): 765+00 OFFSET (feet): 20 RT ELEVATION (ft): N/A

GEOSOL PROJECT No. 203255

GROUNDWATER (ft): 4.0

DATE	TIME	DEPTH (ft)	CASING L (ft)

	CASING	SAMPLE	CORE	TUBE
TYPE	NW	SS		
DIA.(in)	3	1 - 3/8 ID		
WT.(lbs)		140		
FALL(in)		30		

DATUM (ft): NGVD, 1929
DATE START: 07 / 09 / 03
DATE FINISH: 07 / 09 / 03
DRILLER: Bruce S.
EQUIP./HAMMER:B-53 / SAFETY

DEPTH, ft	SAMPLE No.	SAMPLE TYPE	BLOWS / 6"	N Value (bpf)	STRATA #	MATERIAL DESCRIPTION	REMARKS
1	S-1		3 8	16	5	0 to 6": Dark Brown Organic Silty Fine SAND (TOPSOIL; A-8)	
2			8 12		1	6" to 3.5': Brown Slightly Silty Fine SAND with Trace of Limerock Fragments (FILL; A-2-4)	
3	S-2		8 10	15			
4			5 3				
5	S-3		7 7	15	3	3.5' to 6': Brown Sandy LIMESTONE (MIAMI LIMESTONE FORMATION)	BORING TERMINATED AT DEPTH OF 6 ft. BOREHOLE GROUTED
6			8 10				
7	S-4						
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

BLOWS/FT	DENSITY
0-4	Very Loose
5-10	Loose
11-30	Medium Dense
31-50	Dense
> 50	Very Dense

BLOWS/FT.	CONSISTENCY
0-2	Very Soft
3-4	Soft
5-8	Medium Stiff
9-15	Stiff
16-30	Very Stiff
> 30	Hard

SAMPLE IDENTIFICATION
- H - Hand Auger
- S - Split Spoon
- T - Thin Wall Tube
- U - Undisturbed Piston
- C - Diamond Core
- W - Wash Sample

SYMBOL
- FILL
- SAND
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- SILT
- CLAY
- LIMESTONE
- SANDSTONE

GEOSOL, Inc. MIAMI LAKES, FL	TEST BORING RECORD (ASTM D-1586)	BORING No.: B-12
PROJECT NAME: DESIGN/BUILD FOR SR 997 (KROME AVE.) ROADWAY IMPROVEMENTS		SHEET No. 1 OF 1
CLIENT: METRIC ENGINEERING		
BORING LOCATION: STATION (feet): 767+00 OFFSET (feet): 21 RT ELEVATION (ft): N/A		GEOSOL PROJECT No. 203255
GROUNDWATER (ft): 4.3		DATUM (ft): NGVD, 1929
DATE:	TIME:	DEPTH (ft):	CASING L (ft):	TYPE: CASING: NW; SAMPLE: SS; CORE: ; TUBE:	DATE START: 07 / 09 / 03
---	---	---	---	---	---
				DIA.(in): 3; SAMPLE: 1 - 3/8 ID	DATE FINISH: 07 / 09 / 03
				WT.(lbs): SAMPLE: 140	DRILLER: Bruce S.
				FALL(in): SAMPLE: 30	EQUIP./HAMMER:B-53 / SAFETY

DEPTH, ft	SAMPLE No.	SAMPLE TYPE	BLOWS / 6"	N Value (bpf)	STRATA #	MATERIAL DESCRIPTION	REMARKS
1	S-1		4 3	6	1	0 to 4': Dark Brown Slightly Silty Fine SAND with Trace of Limerock Fragments (FILL; A-2-4)	
2			3 4				
3	S-2		7 6	11			
4			5 9				
5	S-3		8 10	19	3	4' to 6': Brown Sandy LIMESTONE (MIAMI LIMESTONE FORMATION)	BORING TERMINATED AT DEPTH OF 6 ft. BOREHOLE GROUTED
6			9 9				
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

BLOWS/FT.	DENSITY
0-4	Very Loose
5-10	Loose
11-30	Medium Dense
31-50	Dense
> 50	Very Dense

BLOWS/FT.	CONSISTENCY
0-2	Very Soft
3-4	Soft
5-8	Medium Stiff
9-15	Stiff
16-30	Very Stiff
> 30	Hard

SAMPLE IDENTIFICATION
- H - Hand Auger
- S - Split Spoon
- T - Thin Wall Tube
- U - Undisturbed Piston
- C - Diamond Core
- W - Wash Sample

SYMBOL
- FILL
- SAND
- ORGANIC SOILS / MUCK
- SILT
- CLAY
- LIMESTONE
- SANDSTONE

GEOSOL, Inc.
MIAMI LAKES, FL

TEST BORING RECORD
(ASTM D-1586)

BORING No.: B-13

PROJECT NAME: DESIGN/BUILD FOR SR 997 (KROME AVE.) ROADWAY IMPROVEMENTS

SHEET No. 1 OF 1

CLIENT: METRIC ENGINEERING

BORING LOCATION: STATION (feet): 769+00 OFFSET (feet): 20 RT ELEVATION (ft): N/A

GEOSOL PROJECT No. 203255

GROUNDWATER (ft): 3.9

DATE	TIME	DEPTH (ft)	CASING	CASING	SAMPLE	CORE	TUBE
			L (ft)	NW	SS		
				DIA.(in)	3	1 - 3/8 ID		
				WT.(lbs)		140		
				FALL(in)		30		

DATUM (ft): NGVD, 1929
DATE START: 07 / 09 / 03
DATE FINISH: 07 / 09 / 03
DRILLER: Bruce S.
EQUIP./HAMMER:B-53 / SAFETY

DEPTH, ft	SAMPLE No.	SAMPLE TYPE	BLOWS / 6"	N Value (bpf)	STRATA #	MATERIAL DESCRIPTION	REMARKS
			4		5	0 to 6": Dark Brown Organic Silty Fine SAND (TOPSOIL; A-8)	
1	S-1		6	14	1	6" to 2': Dark Brown Silty Fine SAND with Trace of Limerock (FILL; A-2-4)	
2			8				
			12				
			27				
3	S-2		25	40	3	2' to 6': Brown Sandy LIMESTONE (MIAMI LIMESTONE FORMATION)	
			15				
4			15				
			11				
5	S-3		9	19			BORING TERMINATED AT DEPTH OF 6 ft.
			10				BOREHOLE GROUTED
6			8				
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

BLOWS/FT.	DENSITY
0-4	Very Loose
5-10	Loose
11-30	Medium Dense
31-50	Dense
> 50	Very Dense

BLOWS/FT.	CONSISTENCY
0-2	Very Soft
3-4	Soft
5-8	Medium Stiff
9-15	Stiff
16-30	Very Stiff
> 30	Hard

SAMPLE IDENTIFICATION
- H - Hand Auger
- S - Split Spoon
- T - Thin Wall Tube
- U - Undisturbed Piston
- C - Diamond Core
- W - Wash Sample

SYMBOL
- FILL
- SAND
- ORGANIC SOILS / MUCK
- SILT
- CLAY
- LIMESTONE
- SANDSTONE

PERCOLATION TESTS
PERFORMED BY HRES FOR KROME AVENUE
FROM STATION 225+40 TO STATION 740+00

SUMMARY OF PERCOLATION TEST RESULTS
USUAL OPEN-HOLE - FDOT METHOD
SR 997/KROME AVENUE PD&E STUDY - FROM SW 296th STREET TO SW 136th STREET
FLORIDA DEPARTMENT OF TRANSPORTATION, DISTRICT 6
HRES PROJECT NO. HR04 - 228R

TEST No.	TEST DATE	STATION	OFFSET	DEPTH TO WATER BEFORE TEST, H	DEPTH TO WATER DURING TEST	HEAD, Du	HOLE DEPTH	HOLE DIAMETER, d	RATE OF FLOW, P		k, HYDRAULIC CONDUCTIVITY
			ft	ft	ft	ft	ft	inches	gpm	cfs	cfs/ft^2-ft. Head
P-1A	1/22/04	225+40	30.0 R	5.33	0.00	5.33	10.00	6.00	3.60	0.0080	1.3E-04
P-1B	1/22/04	225+40	30.0 R	5.33	0.00	5.33	15.00	3.19	0.50	0.0011	5.0E-05
P-2A	1/22/04	285+20	30.0 L	7.00	0.00	7.00	10.00	6.00	45.30	0.1009	1.4E-03
P-2B	1/22/04	285+20	30.0 L	7.00	0.00	7.00	15.00	3.19	54.90	0.1223	4.2E-03
P-3A	1/22/04	335+00	30.0 L	6.92	0.00	6.92	10.00	6.00	0.50	0.0011	1.6E-05
P-3B	1/22/04	335+00	30.0 L	6.92	0.00	6.92	15.00	3.19	0.60	0.0013	4.6E-05
P-4A	1/22/04	374+60	35.0 R	6.25	0.00	6.25	10.00	6.00	54.20	0.1208	1.8E-03
P-4B	1/22/04	374+60	35.0 R	6.25	0.00	6.25	15.00	3.19	54.80	0.1221	4.7E-03
P-5A	1/22/04	395+20	30.0 R	5.33	0.00	5.33	10.00	6.00	54.30	0.1210	2.0E-03
P-5B	1/22/04	395+20	30.0 R	5.33	0.00	5.33	15.00	3.19	54.90	0.1223	5.5E-03
P-6A	1/21/04	415+55	35.0 R	5.08	0.00	5.08	10.00	6.00	54.80	0.1221	2.1E-03
P-6B	1/21/04	415+55	35.0 R	5.08	0.00	5.08	15.00	3.19	55.10	0.1228	5.8E-03
P-7A	1/21/04	435+35	30.0 R	4.75	0.00	4.75	10.00	6.00	53.80	0.1199	2.1E-03
P-7B	1/21/04	435+35	30.0 R	4.75	0.00	4.75	15.00	3.19	54.60	0.1217	6.1E-03
P-8A	1/21/04	454+45	30.0 R	6.00	0.00	6.00	10.00	6.00	53.60	0.1194	1.8E-03
P-8B	1/21/04	454+45	30.0 R	6.00	0.00	6.00	15.00	3.19	54.20	0.1208	4.8E-03
P-9A	1/21/04	475+10	30.0 L	6.00	0.00	6.00	10.00	6.00	54.00	0.1203	1.8E-03
P-9B	1/21/04	475+10	30.0 L	6.00	0.00	6.00	15.00	3.19	54.30	0.1210	4.8E-03
P-10A	1/20/04	525+15	25.0 R	5.92	0.00	5.92	10.00	6.00	49.40	0.1101	1.7E-03
P-10B	1/20/04	525+15	25.0 R	5.92	0.00	5.92	15.00	3.19	49.00	0.1092	4.4E-03
P-11A	1/20/04	620+00	30.0 R	5.50	0.00	5.50	10.00	6.00	50.70	0.1130	1.8E-03

SUMMARY OF PERCOLATION TEST RESULTS
USUAL OPEN-HOLE - FDOT METHOD
SR 997/KROME AVENUE PD&E STUDY - FROM SW 296th STREET TO SW 136th STREET
FLORIDA DEPARTMENT OF TRANSPORTATION, DISTRICT 6
HRES PROJECT NO. HR04 - 228R

TEST No.	TEST DATE	STATION	OFFSET ft	DEPTH TO WATER BEFORE TEST, H ft	DEPTH TO WATER DURING TEST ft	HEAD, Du ft	HOLE DEPTH ft	HOLE DIAMETER, d inches	RATE OF FLOW, P gpm	RATE OF FLOW, P cfs	k, HYDRAULIC CONDUCTIVITY cfs/ft^2-ft. Head
P-11B	1/20/04	620+00	30.0 R	5.50	0.00	5.50	15.00	3.19	49.40	0.1101	**4.8E-03**
P-12A	1/20/04	634+70	30.0 R	5.50	0.00	5.50	10.00	6.00	50.00	0.1114	**1.8E-03**
P-12B	1/20/04	634+70	30.0 R	5.50	0.00	5.50	15.00	3.19	51.00	0.1136	**4.9E-03**
P-13A	1/20/04	670+00	20.0 R	5.00	0.00	5.00	10.00	6.00	49.90	0.1112	**1.9E-03**
P-13B	1/20/04	670+00	20.0 R	5.00	0.00	5.00	15.00	3.19	50.20	0.1119	**5.4E-03**
P-14A	1/19/04	690+00	25.0 R	5.17	0.00	5.17	10.00	6.00	50.80	0.1132	**1.9E-03**
P-14B	1/19/04	690+00	25.0 R	5.17	0.00	5.17	15.00	3.19	52.20	0.1163	**5.4E-03**
P-15A	1/19/04	710+00	35.0 L	4.17	0.00	4.17	10.00	6.00	52.20	0.1163	**2.2E-03**
P-15B	1/19/04	710+00	35.0 L	4.17	0.00	4.17	15.00	3.19	53.60	0.1194	**6.9E-03**
P-16A	1/19/04	730+00	35.0 R	4.00	0.00	4.00	10.00	6.00	50.40	0.1123	**2.2E-03**
P-16B	1/19/04	730+00	35.0 R	4.00	0.00	4.00	15.00	3.19	49.90	0.1112	**6.7E-03**
P-17A	1/19/04	740+00	55.0 R	4.17	0.00	4.17	10.00	6.00	49.30	0.1098	**2.1E-03**
P-17B	1/19/04	740+00	55.0 R	4.17	0.00	4.17	15.00	3.19	51.80	0.1154	**6.6E-03**

for 0 to 10 ft., $K_{10} = P / 3.1416 * d * Du \{ Du/2 + Ds \}$, where Ds = Hole Depth - H

for 10 to 15 ft., $K_{15} = P / 3.1416 * d_3 * D_2 * Du$, where $d_3 = 0.2656$ ft (diameter of perforated casing), and $D_2 = 5.0$ ft.

Notes:

The hole diameter for the last 5 ft. of the 10 to 15 percolation tests is 3.19 inches as per FDOT, District VI Drainage Section procedures

PERCOLATION TESTS
PERFORMED BY FDOT FOR KROME AVENUE
FROM STATION 238+00 TO STATION 610+00

Note:

(1) Test Depth:

0 to 10 feet: Open 7¼" diameter hole from the ground surface to 10 feet. Hole cased with 6" diameter perforated tube

10 to 15 feet: Hole cased down to 10 feet. Open 3 $^{3}/_{16}$" diameter hole to 15 feet.

15 to 20 feet: Hole cased down to 15 feet. Open 3 $^{3}/_{16}$" diameter hole to 20 feet.

Percolation Test Locations:

Sample No.	Station	Offset
P-1	238+00	15.0' LT. C/L SR-997
P-2	243+00	20.0' LT. C/L SR-997
P-3	248+00	25.0' LT. C/L SR-997
P-4	255+00	25.0' LT. C/L SR-997
P-5	260+00	25.0' LT. C/L SR-997
P-6	265+00	25.0' LT. C/L SR-997
P-7	480+00	25.0 RT. C/L SR-997
P-8	485+00	25.0' LT. C/L SR-997
P-9	490+00	25.0' LT. C/L SR-997
P-10	495+00	25.0' RT. C/L SR-997
P-11	500+00	25.0' RT. C/L SR-997
P-12	504+00	25.0' RT. C/L SR-997
P-13	535+00	25.0' RT. C/L SR-997
P-14	540+00	25.0' RT. C/L SR-997
P-15	545+00	25.0' RT. C/L SR-997
P-16	550+00	25.0' RT. C/L SR-997
P-17	555+00	25.0' RT. C/L SR-997
P-18	585+00	25.0' RT. C/L SR-997
P-19	590+00	25.0' RT. C/L SR-997
P-20	595+00	25.0' RT. C/L SR-997
P-21	600+00	25.0' RT. C/L SR-997
P-22	605+00	25.0' RT. C/L SR-997
P-23	610+00	25.0' RT. C/L SR-997

DISTRICT MATERIALS OFFICE - GEOTECHNICAL SECTION

TABLE - 1
Summary of Permeability Tests Results
PROJECT NAME: KROME AVENUE FROM BISCAYNE DRIVE TO EUREKA DRIVE
FPID:249614-5-52-01

Test No.	Hydraulic Conductivity (K) ($ft^3/sec/ft^2$-ft Head)	Hydraulic Conductivity (K) ($ft^3/sec/ft^2$-ft Head)	Hydraulic Conductivity (K) ($ft^3/sec/ft^2$-ft Head)
	0 -10 Feet	10 to 15 Feet	15 to 20 Feet
P-1	1.19E-05	2.33E-03	
P-2	9.24E-05	2.91E-04	1.90E-04
P-3	1.15E-05	1.04E-03	
P-4	5.61E-05	2.34E-03	
P-5	1.79E-04	2.29E-03	
P-6	1.38E-03		
P-7	1.69E-03		
P-8	1.51E-03		
P-9	1.39E-03		
P-10	1.38E-03		
P-11	1.53E-03		
P-12	1.21E-03		
P-13	1.47E-03		
P-14	1.33E-03		
P-15	1.72E-03		
P-16	2.69E-05	3.23E-04	4.35E-04
P-17	1.48E-03		
P-18	1.18E-03		
P-19	1.13E-03		
P-20	9.11E-04		
P-21	1.36E-03		
P-22	9.99E-04		
P-23	1.48E-03		

DISTRICT MATERIALS OFFICE - GEOTECHNICAL SECTION

TABLE - 2
Permeability Tests Results
PROJECT NAME: KROME AVENUE FROM BISCAYNE DRIVE TO EUREKA DRIVE
FPID:249614-5-52-01
FROM 0 TO 10 FEET IN DEPTH

Test No.	Date Performed	Diameter		Depth of Hole	Depth to Groundwater Level Below Ground Surface (Feet)		Hydraulic Head, Du	Saturated Hole Depth, Ds	Average Flow Rate, Q	K, Hydraulic Conductivity
		Hole (Inches)	Casing (Inches)	(Feet)	Prior to Test	During Test	(Feet)	(Feet)	(gpm)	($ft^3/sec/ft^2$-ft Head)
P-1	7/9/2002	7.25	6	10.0	8.0	1.0	6.7	2.0	0.3	1.19E-05
P-2	7/9/2002	7.25	6	10.0	8.9	1.0	7.9	1.1	2.6	9.24E-05
P-3	7/8/2002	7.25	6	10.0	7.3	1.0	6.3	2.7	0.3	1.15E-05
P-4	7/3/2003	7.25	6	10.0	6.1	1.0	5.1	3.9	1.3	5.61E-05
P-5	7/3/2003	7.25	6	10.0	6.9	1.0	5.9	3.1	4.5	1.79E-04
P-6	7/3/2003	7.25	6	10.0	7.1	1.0	6.1	2.9	35.2	1.38E-03
P-7	7/3/2003	7.25	6	10.0	5.9	1.0	4.9	4.1	38.2	1.69E-03
P-8	7/7/2003	7.25	6	10.0	6.4	1.0	5.4	3.6	36.1	1.51E-03
P-9	7/7/2003	7.25	6	10.0	6.1	1.0	5.1	3.9	32.3	1.39E-03
P-10	7/7/2003	7.25	6	10.0	6.0	1.0	5.0	4.0	31.6	1.38E-03
P-11	7/7/2003	7.25	6	10.0	6.3	1.0	5.3	3.7	36.3	1.53E-03
P-12	7/7/2003	7.25	6	10.0	6.5	1.0	5.5	3.5	29.3	1.21E-03
P-13	7/8/2003	7.25	6	10.0	5.2	1.0	4.2	4.8	30.1	1.47E-03
P-14	7/8/2003	7.25	6	10.0	5.1	1.0	4.1	4.9	26.7	1.33E-03
P-15	7/9/2003	7.25	6	10.0	4.9	1.0	3.9	5.1	33.3	1.72E-03
P-16	7/9/2003	7.25	6	10.0	5.8	1.0	4.8	4.2	0.6	2.69E-05
P-17	7/9/2003	7.25	6	10.0	4.7	1.0	3.7	5.3	27.6	1.48E-03
P-18	7/9/2003	7.25	6	10.0	5.4	1.0	4.4	4.6	24.8	1.18E-03
P-19	7/9/2003	7.25	6	10.0	5.3	1.0	4.3	4.7	23.4	1.13E-03
P-20	7/9/2003	7.25	6	10.0	5.6	1.0	4.6	4.4	19.8	9.11E-04
P-21	7/10/2003	7.25	6	10.0	5.4	1.0	4.4	4.6	28.6	1.36E-03
P-22	7/10/2003	7.25	6	10.0	5.6	1.0	4.6	4.4	21.7	9.99E-04
P-23	7/10/2003	7.25	6	10.0	5.0	1.0	4.0	5.0	29.2	1.48E-03

DISTRICT MATERIALS OFFICE - GEOTECHNICAL SECTION

TABLE - 3
Permeability Tests Results
PROJECT NAME: KROME AVENUE FROM BISCAYNE DRIVE TO EUREKA DRIVE
FPID:249614-5-52-01
FROM 10 TO 15 FEET IN DEPTH

Test No.	Date Performed	Diameter		Depth of Hole (Feet)	Depth to Groundwater Level Below Ground Surface (Feet)		Hydraulic Head, Du (Feet)	Saturated Hole Depth, Ds (Feet)	Average Flow Rate, Q (gpm)	from 10 to 15 ft K, Hydraulic Conductivity ($ft^3/sec/ft^2$-ft Head)
		Hole (Inches)	Casing (Inches)		Prior to Test	During Test				
P-1	7/9/2002	3.18	N/A	15.0	8.0	1.0	7.0	7.0	30.5	2.33E-03
P-2	7/9/2002	3.18	N/A	15.0	8.9	1.0	7.9	6.1	4.3	2.91E-04
P-3	7/8/2002	3.18	N/A	15.0	7.3	1.0	6.3	7.7	12.2	1.04E-03
P-4	7/3/2003	3.18	N/A	15.0	6.1	1.0	5.1	8.9	22.3	2.34E-03
P-5	7/3/2003	3.18	N/A	15.0	6.9	1.0	5.9	8.1	25.2	2.29E-03
P-6	7/3/2003	3.18	N/A	15.0	7.1	1.0	6.1	7.9	Flow Rate Achieved	
P-7	7/3/2003	3.18	N/A	15.0	5.9	1.0	4.9	9.1	Flow Rate Achieved	
P-8	7/7/2003	3.18	N/A	15.0	6.4	1.0	5.4	8.6	Flow Rate Achieved	
P-9	7/7/2003	3.18	N/A	15.0	6.1	1.0	5.1	8.9	Flow Rate Achieved	
P-10	7/7/2003	3.18	N/A	15.0	6.0	1.0	5.0	9.0	Flow Rate Achieved	
P-11	7/7/2003	3.18	N/A	15.0	6.3	1.0	5.3	8.7	Flow Rate Achieved	
P-12	7/7/2003	3.18	N/A	15.0	6.5	1.0	5.5	8.5	Flow Rate Achieved	
P-13	7/8/2003	3.18	N/A	15.0	5.2	1.0	4.2	9.8	Flow Rate Achieved	
P-14	7/8/2003	3.18	N/A	15.0	5.1	1.0	4.1	9.9	Flow Rate Achieved	
P-15	7/9/2003	3.18	N/A	15.0	4.9	1.0	3.9	10.1	Flow Rate Achieved	
P-16	7/9/2003	3.18	N/A	15.0	5.8	1.0	4.8	9.2	2.9	3.23E-04
P-17	7/9/2003	3.18	N/A	15.0	4.7	1.0	3.7	10.3	Flow Rate Achieved	
P-18	7/9/2003	3.18	N/A	15.0	5.4	1.0	4.4	9.6	Flow Rate Achieved	
P-19	7/9/2003	3.18	N/A	15.0	5.3	1.0	4.3	9.7	Flow Rate Achieved	
P-20	7/9/2003	3.18	N/A	15.0	5.6	1.0	4.6	9.4	Flow Rate Achieved	
P-21	7/10/2003	3.18	N/A	15.0	5.4	1.0	4.4	9.6	Flow Rate Achieved	
P-22	7/10/2003	3.18	N/A	15.0	5.6	1.0	4.6	9.4	Flow Rate Achieved	
P-23	7/10/2003	3.18	N/A	15.0	5.0	1.0	4.0	10.0	Flow Rate Achieved	

DISTRICT MATERIALS OFFICE - GEOTECHNICAL SECTION

TABLE - 4
Permeability Tests Results
PROJECT NAME: KROME AVENUE FROM BISCAYNE DRIVE TO EUREKA DRIVE
FPID:249614-5-52-01
FROM 15 TO 20 FEET IN DEPTH

Test No.	Date Performed	Diameter		Depth of Hole (Feet)	Depth to Groundwater Level Below Ground Surface (Feet)		Hydraulic Head, Du (Feet)	Saturated Hole Depth, Ds (Feet)	Average Flow Rate, Q (gpm)	from 15 to 20 ft K, Hydraulic Conductivity ($ft^3/sec/ft^2$-ft Head)
		Hole (Inches)	Casing (Inches)		Prior to Test	During Test				
P-1	7/9/2002	3.18	N/A	20.0	8.0	1.0	7.0	12.0	Flow Rate Achieved	
P-2	7/9/2002	3.18	N/A	20.0	8.9	1.0	7.9	11.1	2.8	1.90E-04
P-3	7/8/2002	3.18	N/A	20.0	7.3	1.0	6.3	12.7	Flow Rate Achieved	
P-4	7/3/2003	3.18	N/A	20.0	6.1	1.0	5.1	13.9	Flow Rate Achieved	
P-5	7/3/2003	3.18	N/A	20.0	6.9	1.0	5.9	13.1	Flow Rate Achieved	
P-6	7/3/2003	3.18	N/A	20.0	7.1	1.0	6.1	12.9	Flow Rate Achieved	
P-7	7/3/2003	3.18	N/A	20.0	5.9	1.0	4.9	14.1	Flow Rate Achieved	
P-8	7/7/2003	3.18	N/A	20.0	6.4	1.0	5.4	13.6	Flow Rate Achieved	
P-9	7/7/2003	3.18	N/A	20.0	6.1	1.0	5.1	13.9	Flow Rate Achieved	
P-10	7/7/2003	3.18	N/A	20.0	6.0	1.0	5.0	14.0	Flow Rate Achieved	
P-11	7/7/2003	3.18	N/A	20.0	6.3	1.0	5.3	13.7	Flow Rate Achieved	
P-12	7/7/2003	3.18	N/A	20.0	6.5	1.0	5.5	13.5	Flow Rate Achieved	
P-13	7/8/2003	3.18	N/A	20.0	5.2	1.0	4.2	14.8	Flow Rate Achieved	
P-14	7/8/2003	3.18	N/A	20.0	5.1	1.0	4.1	14.9	Flow Rate Achieved	
P-15	7/9/2003	3.18	N/A	20.0	4.9	1.0	3.9	15.1	Flow Rate Achieved	
P-16	7/9/2003	3.18	N/A	20.0	5.8	1.0	4.8	14.2	3.9	4.35E-04
P-17	7/9/2003	3.18	N/A	20.0	4.7	1.0	3.7	15.3	Flow Rate Achieved	
P-18	7/9/2003	3.18	N/A	20.0	5.4	1.0	4.4	14.6	Flow Rate Achieved	
P-19	7/9/2003	3.18	N/A	20.0	5.3	1.0	4.3	14.7	Flow Rate Achieved	
P-20	7/9/2003	3.18	N/A	20.0	5.6	1.0	4.6	14.4	Flow Rate Achieved	
P-21	7/10/2003	3.18	N/A	20.0	5.4	1.0	4.4	14.6	Flow Rate Achieved	
P-22	7/10/2003	3.18	N/A	20.0	5.6	1.0	4.6	14.4	Flow Rate Achieved	
P-23	7/10/2003	3.18	N/A	20.0	5.0	1.0	4.0	15.0	Flow Rate Achieved	

PERCOLATION TESTS
PERFORMED BY FDOT FOR KROME AVENUE
FROM STATION 223+00 TO STATION 248+00

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
PERCOLATION (EXFILTRATION) TEST RESULTS

Test No: P-1

Project Name: SR-997/Krome Ave. from SW 296th Street to SW 288th Street
Test Location: Sta. 223+00, 21.0' RT. C/L SR-997
Financial Project No. 410643-1
State Project No. N/A
Date Tested: 7-03-02
Tested By: N.Lachuk

Soil Description: Topsoil. Tan sandy Limestone.

Depth of Water Table (ft.): 6.3 **Head Maintained at:** 12" **Below Ground Surface**

Test Depth (ft.)	0 – 10.0	10.0 – 15.0	15.0 – 20.0	20.0 – 25.0
Average Flow (GPM)	23.3			

Test No: P-2

Project Name: SR-997/Krome Ave. from SW 296th Street to SW 288th Street
Test Location: Sta. 228+00, 23.0' LT. C/L SR-997
Financial Project No. 410643-1
State Project No. N/A
Date Tested: 7-10-02
Tested By: N.Lachuk

Soil Description: Tan silty sandy Limestone.

Depth of Water Table (ft.): 6.9 **Head Maintained at:** 12" **Below Ground Surface**

Test Depth (ft.)	0 – 10.0	10.0 – 15.0	15.0 – 20.0	20.0 – 25.0
Average Flow (GPM)	25.0			

Notes:

1) Test depth: 0 – 10.0 ft.: Open 7-1/4" diameter hole from the ground surface. Hole cased with a perforated tube.

2) Test below 10 ft.: Hole cased down to beginning of test depth (10 ft. or 15 ft.). Open 3-3/16" diameter from beginning to end of the test depth.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
PERCOLATION (EXFILTRATION) TEST RESULTS

Test No: P-3

Project Name: SR-997/Krome Ave. from SW 296th Street to SW 288th Street
Test Location: Sta. 233+00, 20.0' LT. C/L SR-997
Financial Project No. 410643-1
State Project No. N/A
Date Tested: 7-10-02
Tested By: N.Lachuk

Soil Description: Tan silty sandy Limestone.

Depth of Water Table (ft.): 7.7 **Head Maintained at:** 12" **Below Ground Surface**

Test Depth (ft.)	0 – 10.0	10.0 – 15.0	15.0 – 20.0	20.0 – 25.0
Average Flow (GPM)	25.1			

Test No: P-4

Project Name: SR-997/Krome Ave. from SW 296th Street to SW 288th Street
Test Location: Sta. 238+00, 15.0' LT. C/L SR-997
Financial Project No. 410643-1
State Project No. N/A
Date Tested: 7-09-02
Tested By: N.Lachuk

Soil Description: Tan silty sandy Limestone.

Depth of Water Table (ft.): 8.0 **Head Maintained at:** 12" **Below Ground Surface**

Test Depth (ft.)	0 – 10.0	10.0 – 15.0	15.0 – 20.0	20.0 – 25.0
Average Flow (GPM)	0.3	30.5		

Notes:

1) Test depth: 0 – 10.0 ft.: Open 7-1/4" diameter hole from the ground surface. Hole cased with a perforated tube.

2) Test below 10 ft.: Hole cased down to beginning of test depth (10 ft. or 15 ft.). Open 3-3/16" diameter from beginning to end of the test depth.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
PERCOLATION (EXFILTRATION) TEST RESULTS

Test No: P-5

Project Name: SR-997/Krome Ave. from SW 296th Street to SW 288th Street
Test Location: Sta. 243+00, 20.0' LT. C/L SR-997
Financial Project No. 410643-1
State Project No. N/A
Date Tested: 7-09-02
Tested By: N.Lachuk

Soil Description: Tan silty sandy Limestone.

Depth of Water Table (ft.): 8.9 **Head Maintained at:** 12" **Below Ground Surface**

Test Depth (ft.)	0 – 10.0	10.0 – 15.0	15.0 – 20.0	20.0 – 25.0
Average Flow (GPM)	2.6	4.3	2.8	

Test No: P-6

Project Name: SR-997/Krome Ave. from SW 296th Street to SW 288th Street
Test Location: Sta. 248+00, 25.0' LT. C/L SR-997
Financial Project No. 410643-1
State Project No. N/A
Date Tested: 7-08-02
Tested By: N.Lachuk

Soil Description: Topsoil. Tan silty sandy Limestone.

Depth of Water Table (ft.): 7.3 **Head Maintained at:** 12" **Below Ground Surface**

Test Depth (ft.)	0 – 10.0	10.0 – 15.0	15.0 – 20.0	20.0 – 25.0
Average Flow (GPM)	0.3	12.2		

Notes:

1) Test depth: 0 – 10.0 ft.: Open 7-1/4" diameter hole from the ground surface. Hole cased with perforated tube.

2) Test below 10 ft.: Hole cased down to beginning of test depth (10 ft. or 15 ft.). Open 3-3/16" diameter from beginning to end of the test depth.

PERCOLATION TESTS
PERFORMED BY GEOSOL FOR KROME AVENUE
FROM STATION 305+10 TO STATION 759+40

SR 997 / KROME AVENUE IMPROVEMENTS
VICINITY OF SW 136th STREET
STATION 744 TO STATION 770
FDOT DISTRICT 6
MIAMI-DADE COUNTY, FLORIDA
FPID No.: 249614-2-52-01

TABLE 1 - SUMMARY OF FIELD TEST LOCATIONS

TEST No.	DEPTH (FEET)	TYPE OF TEST	APPROXIMATE LOCATION (FEET)		GROUND SURF. EL. (FEET)	BASELINE REFERENCE	DATE OF BORING
			STATION	OFFSET			
B-1	75	BORING	745	15 RT	N/A	CENTERLINE CONSTRUCTION SR 997	09-Jul-03
B-2	20	BORING	747	15 RT	N/A	CENTERLINE CONSTRUCTION SR 997	09-Jul-03
B-3	30	BORING	749	20 RT	N/A	CENTERLINE CONSTRUCTION SR 997	09-Jul-03
B-4	30	BORING	751	20 RT	N/A	CENTERLINE CONSTRUCTION SR 997	09-Jul-03
B-5	20	BORING	753	23 RT	N/A	CENTERLINE CONSTRUCTION SR 997	09-Jul-03
B-6	30	BORING	755	22 RT	N/A	CENTERLINE CONSTRUCTION SR 997	09-Jul-03
B-7	18	BORING	757	19 RT	N/A	CENTERLINE CONSTRUCTION SR 997	09-Jul-03
B-8	16	BORING	759	21 RT	N/A	CENTERLINE CONSTRUCTION SR 997	09-Jul-03
B-9	30	BORING	761	21 RT	N/A	CENTERLINE CONSTRUCTION SR 997	09-Jul-03
B-10	20	BORING	763	21 RT	N/A	CENTERLINE CONSTRUCTION SR 997	09-Jul-03
B-11	30	BORING	765	20 RT	N/A	CENTERLINE CONSTRUCTION SR 997	09-Jul-03
B-12	30	BORING	767	21 RT	N/A	CENTERLINE CONSTRUCTION SR 997	09-Jul-03
B-13	16	BORING	769	20 RT	N/A	CENTERLINE CONSTRUCTION SR 997	09-Jul-03
P-5A	10	PERCOLATION TEST	571+20	115 LT	N/A	CENTERLINE CONSTRUCTION SR 997	09-Jul-03
P-5B	15	PERCOLATION TEST	571+20	115 LT	N/A	CENTERLINE CONSTRUCTION SR 997	08-Jul-03
P-6A	10	PERCOLATION TEST	570+90	140 RT	N/A	CENTERLINE CONSTRUCTION SR 997	08-Jul-03
P-6B	15	PERCOLATION TEST	570+90	140 RT	N/A	CENTERLINE CONSTRUCTION SR 997	08-Jul-03
P-8A	10	PERCOLATION TEST	652+55	140 RT	N/A	CENTERLINE CONSTRUCTION SR 997	08-Jul-03
P-8B	15	PERCOLATION TEST	652+55	140 RT	N/A	CENTERLINE CONSTRUCTION SR 997	08-Jul-03
P-10A	10	PERCOLATION TEST	759+40	45 RT	N/A	CENTERLINE CONSTRUCTION SR 997	08-Jul-03
P-10B	15	PERCOLATION TEST	759+40	45 RT	N/A	CENTERLINE CONSTRUCTION SR 997	08-Jul-03
P-11A	10	PERCOLATION TEST	305+10	55 RT	N/A	CENTERLINE CONSTRUCTION SR 997	08-Jul-03
P-11B	15	PERCOLATION TEST	305+10	55 RT	N/A	CENTERLINE CONSTRUCTION SR 997	08-Jul-03

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TABLE 3 - SUMMARY OF PERCOLATION TEST RESULTS

SR 997 / KROME AVENUE DESIGN-BUILD PROJECT
FROM SW 136th STREET TO SW 272nd STREET
MIAMI-DADE COUNTY, FLORIDA
Geosol Project No. 203255

Test No.	Location	Date Performed	Diameter		Depth of Hole (Feet)	Depth to Groundwater Level Below Ground Surface (Feet)		SATURATED HOLE DEPTH Ds (Feet)	Corrected Depth of Hole (Feet)	Average Flow Rate (gpm)	K, Hydraulic Conductivity (cfs/ft^2-Ft Head)
			Casing (Inches)	Hole (Inches)		Prior to Test	During Test				
P-5A	**NW Corner SW 192nd St.**	07/08/03	4.0	6.0	10.0	4.0	2.0	6.0	8.0	10.0	9.95E-04
P-5B	(91' W. EOP Krome; 5' N. EOP SW 192nd St.)	07/08/03	4.0	6.0	15.0	4.0	2.0	11.0	13.0	24.9	1.46E-03
P-6A	**SE Corner SW 192nd St.**	07/08/03	4.0	6.0	10.0	4.0	2.0	6.0	8.0	12.7	1.26E-03
P-6B	(125' E. EOP Krome; 5' S. EOP SW 192nd St.)	07/08/03	4.0	6.0	15.0	4.0	2.0	11.0	13.0	24.4	1.43E-03
P-8A	**SE Corner SW 168nd St.**	07/08/03	4.0	6.0	10.0	4.3	2.0	5.7	8.0	11.6	1.03E-03
P-8B	(125' E. EOP Krome; 5' S. EOP SW 168nd St.)	07/08/03	4.0	6.0	15.0	4.3	2.0	10.7	13.0	23.5	1.21E-03
P-10A	**NE Corner of unpaved Rd. N of SW 136nd St.**	07/08/03	4.0	6.0	10.0	4.5	2.0	5.5	8.0	14.0	1.16E-03
P-10B	(373.4 N. of C/L SW 136th St.; 24.6' E. EOP KROME)	07/08/03	4.0	6.0	15.0	4.5	2.0	10.5	13.0	25.0	1.19E-03
P-11A	**NE Corner SW 272nd St.**	07/08/03	4.0	6.0	10.0	3.9	2.0	6.1	8.0	8.8	9.16E-04
P-11B	(11.1' E. EOP Krome; 24.4' N. EOP SW 272nd St.)	07/08/03	4.0	6.0	15.0	3.9	2.0	11.1	13.0	24.3	1.49E-03

NOTES:

(1) The above hydraulic conductivity values are for a French drain installed to the same depth as the borehole tests. The values represent an ultimate value. The designer should decide on the required factor of safety.

(2) The hydraulic conductivity values were calculated based on the South Florida Water Management Districts's USUAL OPEN HOLE CONSTANT HEAD percolation test procedure.

(3) The diameter of the HOLE was used in the computation of the hydraulic conductivity values presented in the above table.

Test No.	DEPTH (FEET) FROM	TO	GENERAL MATERIAL DESCRIPTION
P-5A/P-5B	0.00	1.00	Brown Slightly Silty Fiine SAND and LIMEROCK Fragments
	1.00	15.00	Brown Sandy LIMESTONE (MIAMI LIMESTONE FORMATION)
P-6A/P-6B	0.00	1.50	Brown Slightly Silty Fiine SAND and LIMEROCK Fragments
	1.50	15.00	Brown Sandy LIMESTONE (MIAMI LIMESTONE FORMATION)
P-8A/P-8B	0.00	1.50	Brown Slightly Silty Fiine SAND and LIMEROCK Fragments
	1.50	15.00	Brown Sandy LIMESTONE (MIAMI LIMESTONE FORMATION)
P-10A/P-10B	0.00	1.00	Brown Slightly Silty Fiine SAND and LIMEROCK Fragments
	1.00	15.00	Brown Sandy LIMESTONE (MIAMI LIMESTONE FORMATION)
P-11A/P-11B	0.00	1.00	Brown Slightly Silty Fiine SAND and LIMEROCK Fragments
	1.00	15.00	Brown Sandy LIMESTONE (MIAMI LIMESTONE FORMATION)

PERCOLATION TESTS
PERFORMED BY FDOT FOR KROME AVENUE
FROM STATION 302+84 TO STATION 358+65

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
PERCOLATION (EXFILTRATION) TEST RESULTS

Test No: P-1

Project Name:	SR-997 From Sw 272nd St. to	**Financial Project No.**	249614-1
	Sw 136th St.	**State Project No.**	N/A
Test Location:	Sta 302+84 25' Lt C/L SR 997	**Date Tested**	03/05/02
		Tested By:	RESCIGNO

Soil Description: SAND AND ROCK FILL SILTY SANDY LIMESTONE

Depth of Water Table (ft.): 5.8' **Head Maintained at:** 12" **Below Ground Surface**

Test Depth (ft.)	0-10.0	10.0 - 15.0	15.0 - 20.0	20.0 - 25.0
Average Flow (GPM)	0.6	13	7.2	

Test No: P-2

Project Name:	SR-997 From Sw 272nd St. to	**Financial Project No.**	249614-1
	Sw 136th St.	**State Project No.**	N/A
Test Location:	Sta 305+48 25' Lt C/L SR 997	**Date Tested**	03/05/02
		Tested By:	RESCIGNO

Soil Description: SAND AND ROCK FILL SILTY SANDY LIMESTONE

Depth of Water Table (ft.): 5.7' **Head Maintained at:** 12" **Below Ground Surface**

Test Depth (ft.)	0-10.0	10.0 - 15.0	15.0 - 20.0	20.0 - 25.0
Average Flow (GPM)	0.3	15.5		

Notes:

1) Test depth: 0 - 10.0 ft.: Open 7-1/4" diameter hole from the ground surface. Hole cased with perforated tube.

2) Test below 10 ft.: Hole cased down to beginning of test depth (10 ft. or 15 ft.). Open 3-3/16" diameter from beginning to end of the test depth.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
PERCOLATION (EXFILTRATION) TEST RESULTS

Test No: P-3

Project Name: SR-997 From Sw 272nd St. to Sw 136th St.
Financial Project No. 249614-1
State Project No. N/A
Test Location: Sta 357+67 25' Lt C/L SR 997
Date Tested 03/05/02
Tested By: RESCIGNO

Soil Description: SAND AND ROCK FILL SILTY SANDY LIMESTONE

Depth of Water Table (ft.): 6.2' **Head Maintained at:** 4.2' **Below Ground Surface**

Test Depth (ft.)	0-10.0	10.0 - 15.0	15.0 - 20.0	20.0 - 25.0
Average Flow (GPM)	50.0			

Test No: P-4

Project Name: SR-997 From Sw 272nd St. to Sw 136th St.
Financial Project No. 249614-1
State Project No. N/A
Test Location: Sta 358+65 35' Lt C/L SR 997
Date Tested 03/05/02
Tested By: RESCIGNO

Soil Description: SAND AND ROCK FILL SILTY SANDY LIMESTONE

Depth of Water Table (ft.): 6.0' **Head Maintained at:** 4.6' **Below Ground Surface**

Test Depth (ft.)	0-10.0	10.0 - 15.0	15.0 - 20.0	20.0 - 25.0
Average Flow (GPM)	50.0			

Notes:
1) Test depth: 0 - 10.0 ft.: Open 7-1/4" diameter hole from the ground surface. Hole cased with perforated tube.

2) Test below 10 ft.: Hole cased down to beginning of test depth (10 ft. or 15 ft.). Open 3-3/16" diameter from beginning to end of the test depth.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
PERCOLATION (EXFILTRATION) TEST RESULTS

Test No: P-5

Project Name: SR-997 From Sw 272nd St. to Sw 136th St.
Financial Project No. 249614-1
State Project No. N/A
Test Location: Sta 2+00 18' Lt C/L SR 997 (sw 192nd St.)
Date Tested 03/05/02
Tested By: RESCIGNO

Soil Description: BROWN SILTY SAND AND TAN SILTY SANDY LIMESTONE

Depth of Water Table (ft.): 5.9' **Head Maintained at:** 12" **Below Ground Surface**

Test Depth (ft.)	0-10.0	10.0 - 15.0	15.0 - 20.0	20.0 - 25.0
Average Flow (GPM)	38.7			

Test No: P-6

Project Name: SR-997 From Sw 272nd St. to Sw 136th St.
Financial Project No. 249614-1
State Project No. N/A
Test Location: Sta 4+00 13' Rt C/L SR 997 (sw 192nd St.)
Date Tested 03/05/02
Tested By: RESCIGNO

Soil Description: SAND AND ROCK FILL, SILTY SANDY LIMESTONE

Depth of Water Table (ft.): 5.6' **Head Maintained at:** 12" **Below Ground Surface**

Test Depth (ft.)	0-10.0	10.0 - 15.0	15.0 - 20.0	20.0 - 25.0
Average Flow (GPM)	35.3			

Notes:
1) Test depth: 0 - 10.0 ft.: Open 7-1/4" diameter hole from the ground surface. Hole cased with perforated tube.

2) Test below 10 ft.: Hole cased down to beginning of test depth (10 ft. or 15 ft.). Open 3-3/16" diameter from beginning to end of the test depth.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
PERCOLATION (EXFILTRATION) TEST RESULTS

Test No: P-7

Project Name: SR-997 From Sw 272nd St. to Sw 136th St.
Financial Project No. 249614-1
State Project No. N/A
Test Location: Sta 2+00 18' Lt C/L SR 997 (sw 168th St.)
Date Tested 02/20/02
Tested By: RESCIGNO

Soil Description: BROWN SILTY SAND AND TAN SILTY SANDY LIMESTONE

Depth of Water Table (ft.): 6.0' **Head Maintained at:** 12" **Below Ground Surface**

Test Depth (ft.)	0-10.0	10.0 - 15.0	15.0 - 20.0	20.0 - 25.0
Average Flow (GPM)	4.8	15.3		

Test No: P-8

Project Name: SR-997 From Sw 272nd St. to Sw 136th St.
Financial Project No. 249614-1
State Project No. N/A
Test Location: Sta 4+00 13' Rt C/L SR 997 (sw 168th St.)
Date Tested 02/20/02
Tested By: RESCIGNO

Soil Description: TAN SILTY SANDY LIMESTONE

Depth of Water Table (ft.): 6.0' **Head Maintained at:** 12" **Below Ground Surface**

Test Depth (ft.)	0-10.0	10.0 - 15.0	15.0 - 20.0	20.0 - 25.0
Average Flow (GPM)	32.2			

Notes:
1) Test depth: 0 - 10.0 ft.: Open 7-1/4" diameter hole from the ground surface. Hole cased with perforated tube.

2) Test below 10 ft.: Hole cased down to beginning of test depth (10 ft. or 15 ft.). Open 3-3/16" diameter from beginning to end of the test depth.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
PERCOLATION (EXFILTRATION) TEST RESULTS

Test No: P-9

Project Name: SR-997 From Sw 272nd St. to Sw 136th St. **Financial Project No.** 249614-1

State Project No. N/A

Test Location: Sta 3+00 18' Lt C/L SR 997 (sw 136th St.) **Date Tested** 02/20/02

Tested By: RESCIGNO

Soil Description: BROWN SILTY SAND BROWN MARL AND TRACES OF LIMESTONE TAN SILTY SANDY LIMESTONE

Depth of Water Table (ft.): 9.6' **Head Maintained at:** 12" **Below Ground Surface**

Test Depth (ft.)	0-10.0	10.0 - 15.0	15.0 - 20.0	20.0 - 25.0
Average Flow (GPM)	31.1			

Test No: P-10

Project Name: SR-997 From Sw 272nd St. to Sw 136th St. **Financial Project No.** 249614-1

State Project No. N/A

Test Location: Sta 4+00 12' Rt C/L SR 997 (sw 136th St.) **Date Tested** 02/20/02

Tested By: RESCIGNO

Soil Description: BROWN SILTY SAND BROWN MARL WITH TRACES OF LIMESTONE TAN SILTY SANDY LIMESTONE

Depth of Water Table (ft.): 4.6' **Head Maintained at:** 12" **Below Ground Surface**

Test Depth (ft.)	0-10.0	10.0 - 15.0	15.0 - 20.0	20.0 - 25.0
Average Flow (GPM)	30.4			

Notes:

1) Test depth: 0 - 10.0 ft.: Open 7-1/4" diameter hole from the ground surface. Hole cased with perforated tube.

2) Test below 10 ft.: Hole cased down to beginning of test depth (10 ft. or 15 ft.). Open 3-3/16" diameter from beginning to end of the test depth.

FIELD PROCEDURES

Auger Borings – Auger borings were advanced mechanically by a continuous flight auger attached to the drill rig. The soils encountered were identified in the field from cuttings brought to the surface by the augering process. Representative soil samples were placed in glass jars and transported to our laboratory where they were examined by an engineer in order to verify the field classifications.

Percolation Testing - The percolation tests were performed in order to estimate the hydraulic conductivity of the materials encountered. The Constant Head method was used. The general procedures outlined in the FDOT District 6, Drainage Section were followed. Each test was performed in a 6.0-inch outside diameter hole initially pre-drilled to a depth of 10 feet below the existing ground surface, using a tri-cone drilling tool. Each borehole was then filled with water and the water level maintained as close as possible to the ground surface. Once the inflow stabilized or came into equilibrium with the outflow rate or seepage, the amount of water added for a period of 10 minutes was recorded and the percolation rate calculated and reported in units of cfs/ft.^{2}-ft. of head.

A second test was performed in the same borehole location at the depth interval of 10 to 15 feet. Each borehole was then filled with water and the water level maintained as close as possible to the ground surface. Once the inflow stabilized or came into equilibrium with the outflow rate or seepage, the amount of water added for a period of 10 minutes was recorded and the percolation rate calculated and reported in units of cfs/ft.^{2}-ft. of head.

APPENDIX B:

SUMMARY OF ENVIRONMENTAL CORROSION REPORT
PERFORMED BY FDOT AT: STA. 223+00, STA. 248+00, STA.265+00,
STA. 490+00, STA. 495+00 AND STATION 585+00 B-1 AND B-2

SUMMARY OF SOIL LABORATORY TEST RESULTS PERFORMED
BY FDOT: STA. 239+00 TO STA. 247+00 B-3 THRU B-6

SUMMARY OF SOIL LABORATORY TEST RESULTS PERFORMED
BY GEOSOL: STA. 744+00 TO STA. 770+00 B-7

SOIL SURVEY TABLES PERFORMED BY FDOT B-8 THRU B-12

SUMMARY OF ENVIRONMENTAL CORROSION REPORT PERFORMED BY FDOT FOR KROME AVENUE AT STATION 223+00, STATION 248+00 AT STATION 265+00, STATION 490+00 AT STATION 495+00, STATION 585+00

Florida Department of Transportation

JEB BUSH
GOVERNOR

District 4 Materials Office
14200 West State Road 84, Davie, Fl. 33325
Telephone 954-475-4102 Fax 954-475-4119

THOMAS F. BARRY, JR.
SECRETARY

MEMORANDUM

DATE : August 02, 2002

TO : Jose A. Llanes ,E.I., Project Engineer

FROM : Terrence Walters

COPIES : David C. Miro, Corrosion Laboratory State Materials Office

SUBJECT : **ENVIRONMENTAL CORROSION REPORT**

Project Name : SR-997 (Krome Avenue) from SW 288th Street to SW 296th Street
Financial Project No. : 410643-1-52-01
County : MIAMI- DADE

The samples below were taken from the subject site and tested to evaluate the corrosiveness conditions of the location. The location and results of the sample are as follows:

SAMPLE No.	LOCATION	RESISTIVITY (OHMS-CM)	pH	SULFATES (PPM)	CHLORIDES (PPM)
S-1	Percolation Test No. P-11 Sta. 223+00, 21.0' Rt. B/L SR-997 Krome Avenue Water Sample	2100	7.8	Less than 5	60
S-2	Percolation Test No. P-6 Sta. 248+00, 25.0' Lt. B/L SR-997 Krome Avenue Water Sample	2200	7.4	20	60

The results of these samples indicate that the substructure conditions are moderately aggressive.

Florida Department of Transportation

JEB BUSH
GOVERNOR

District 4 Materials Office
14200 West State Road 84, Davie, Fl. 33325
Telephone 954-475-4102 Fax 954-475-4119

JOSE ABREU
SECRETARY

MEMORANDUM

DATE : July 25, 2003

TO : Erki Suarez, P.E., Project Manager

FROM : Terrence Walters, Geotechnical Section – District 4

COPIES : Corrosion Laboratory State Materials Office

SUBJECT : **ENVIRONMENTAL CORROSION REPORT**

Project Name :SR-997/Krome Ave. from Biscayne Drive to Eureka Drive
SR-997 & Biscayne Drive, M.P.4.077 to M.P. 4.588
SR-997 & Hainlin Mill Drive, M.P. 8.629 to M.P. 9.140
SR-997 & Quail Roost Drive, M.P. 9.628 to M.P.10.139
SR-997 & Eureka Drive, M.P.10.640 to M.P. 11.151

Financial Project ID : 249614-5-52-01

County : Miami-Dade

The samples below were taken from the subject site and tested to evaluate the corrosiveness conditions of the location. The location and results of the sample are as follows:

SAMPLE No.	LOCATION	RESISTIVITY (OHMS-CM)	pH	SULFATES (PPM)	CHLORIDES (PPM)
S-1	From Percolation Test Sta.265+00, 25' LT. B/L SR-997 **Water Sample from P-6**	1000	7.4	32	40
S-2	From Percolation Test Sta.490+00, 25' LT. B/L SR-997 **Water Sample from P-9**	2400	7.3	20	60
S-3	From Percolation Test Sta.495+00, 25' RT. B/L SR-997 **Water Sample from P-10**	2100	7.2	20	80
S-4	From Percolation Test Sta.585+00, 25' RT. B/L SR-997 **Water Sample from P-18**	2500	7.3	Less than 5	80

The results of these samples indicate that the substructure conditions are moderately aggressive.

SUMMARY OF SOIL LABORATORY TEST RESULTS
PERFORMED BY FDOT FOR KROME AVENUE
FROM STATION 239+00 TO STATION 247+00
FROM STATION 478+00 TO STATION 487+00
FROM STATION 531+00 TO STATION 552+00
FROM STATION 585+00 TO STATION 608+00

TABLE 5 - SUMMARY OF LABORATORY TEST RESULTS (SOIL)

SR-997/KROME AVENUE AND BISCAYNE DRIVE

FPID: 249614-5-52-01

Station	Offset	Auger Boring Number	Sample Number	Sample Depth (Feet)	Stratum No.	AASHTO Group Symbol	PERCENT FINER					Atterberg Limits (%)			Organic Content (%)	Natural Moisture Content (%)
							#4	#10	#40	#60	#200	Liquid Limit	Plastic Limit	Plasticity Index		
239+00	21' RT. C/L SR-5	AB-79	28	0.0 - 0.8	2	A-2-4	79.0	67.0	56.0	48.0	34.0					15
253+00	27' RT. C/L SR-5	AB-93	30	0.0 - 0.9	2	A-2-4	79.0	64.0	51.0	42.0	24.0					19
247+00	18' LT. C/L SR-5	AB-88	31	0.0 - 0.9	1	A-1-b	72.0	59.0	46.0	37.0	21.0					12

TABLE 6 - SUMMARY OF LABORATORY TEST RESULTS (SOIL)

SR-997/KROME AVENUE AND HAINLIN MILL DRIVE (SW 216 STREET)

FPID 249614-5-52-01

Station	Offset	Auger Boring Number	Sample Number	Sample Depth (Feet)	Stratum No.	AASHTO Group Symbol	PERCENT FINER					Atterberg Limits (%)			Organic Content (%)	Natural Moisture Content (%)
							#4	#10	#40	#60	#200	Liquid Limit	Plastic Limit	Plasticity Index		
478+00	21' RT. C/L SR-5	AB-54	22	0.0 - 1.0	1	A-1-a	50.0	39.0	26.0	21.0	14.0					9
486+00	21' RT. C/L SR-5	AB-62	24	0.4 - 1.1	2	A-2-4	79.0	64.0	51.0	42.0	24.0					16
493+00	21' RT. C/L SR-5	AB-67	25	0.0 - 1.0	1	A-1-b	73.0	60.0	46.0	38.0	20.0					11
487+00	21' LT. C/L SR-5	AB-63	27	0.0 - 0.9	2	A-2-4	80.0	65.0	53.0	44.0	26.0					11

TABLE 7 - SUMMARY OF LABORATORY TEST RESULTS (SOIL)

SR-997/KROME AVENUE AND QUAIL ROOST DRIVE

FPID: 249614-5-52-01

Station	Offset	Auger Boring Number	Sample Number	Sample Depth (Feet)	Stratum No.	AASHTO Group Symbol	PERCENT FINER					Atterberg Limits (%)			Organic Content (%)	Natural Moisture Content (%)
							#4	#10	#40	#60	#200	Liquid Limit	Plastic Limit	Plasticity Index		
531+00	21' RT. C/L SR-5	AB-28	12	0.0 - 0.6	1	A-1-b	59.0	47.0	37.0	27.0	8.0					6
			13	0.6 - 1.3	2	A-2-4	79.0	66.0	55.0	42.0	16.0					11
535+00	21' RT. C/L SR-5	AB-32	15	0.9 - 2.6	2	A-2-4	96.0	93.0	85.0	64.0	21.0					16
541+00	21' RT. C/L SR-5	AB-38	16	0.0 - 0.9	1	A-1-b	67.0	52.0	39.0	30.0	10.0					5
			17	0.9 - 2.0	2	A-2-4	76.0	69.0	57.0	42.0	11.0					9
556+00	21' LT. C/L SR-5	AB-52	19	0.0 - 2.0	1	A-1-b	56.0	43.0	35.0	29.0	17.0					9
552+00	21' LT. C/L SR-5	AB-48	21	0.3 - 1.4	2	A-2-4	88.0	83.0	75.0	55.0	11.0					8

TABLE 8 - SUMMARY OF LABORATORY TEST RESULTS (SOIL)

SR-997/KROME AVENUE AND EUREKA DRIVE

FPID: 249614-5-52-01

Station	Offset	Auger Boring Number	Sample Number	Sample Depth (Feet)	Stratum No.	AASHTO Group Symbol	PERCENT FINER					Atterberg Limits (%)			Organic Content (%)	Natural Moisture Content (%)
							#4	#10	#40	#60	#200	Liquid Limit	Plastic Limit	Plasticity Index		
585+00	20' RT. C/L SR-5	AB-1	1	0.0 - 0.6	1	A-1-a	62.0	47.0	35.0	25.0	7.0					6
			2	0.6 - 1.0	2	A-2-4	79.0	72.0	61.0	43.0	12.0					11
593+00	20' RT. C/L SR-5	AB-9	4	0.2 - 0.7	2	A-2-4	77.0	68.0	56.0	42.0	14.0					10
595+00	20' RT. C/L SR-5	AB-11	5	0.0 - 0.6	1	A-1-b	73.0	56.0	40.0	32.0	16.0					6
603+00	21' RT. C/L SR-5	AB-19	7	1.0 - 1.7	2	A-2-4	82.0	70.0	57.0	48.0	27.0					10
607+00	21' RT. C/L SR-5	AB-23	9	0.3 - 1.1	1	A-1-b	66.0	58.0	49.0	35.0	9.0					8
608+00	21' LT. C/L SR-5	AB-24	10	0.0 - 1.0	1	A-1-b	66.0	57.0	44.0	32.0	10.0					9

SUMMARY OF SOIL LABORATORY TEST RESULTS PERFORMED BY GEOSOL FOR KROME AVENUE FROM STATION 744+00 TO STATION 770+00

TABLE 2 -SUMMARY OF LABORATORY TEST RESULTS (ROADWAYS)
SR 997/KROME AVENUE IMPROVEMENTS
VICINITY OF SW 136th STREET (STATION 744 TO STATION 770)
FPID: 249614-2-52-01
GEOSOL PROJECT No.: 203255

BORING NUMBER	SAMPLE NUMBER	STRATUM NUMBER	AASHTO SYMBOL	Sample Depth (FEET)	Sieve Analysis (Percent Passing)									Atterberg Limits (%)			Organic Content (%)	Natural Moisture Content (%)
					1"	3/4"	3/8"	#4	#10	#40	#60	#100	#200	Liquid Limit	Plastic Limit	Plasticity Index		
B-1	1	4	A-1-b	0.0 - 2.0	100.0	96.20	80.10	67.90	59.30	49.70	42.40	29.50	23.50					8.7
B-1	2	4	A-1-b	2.0 - 4.0	83.4	64.00	54.60	45.40	38.60	30.60	26.20	18.50	15.40					10.5
B-3	3	2	A-4	4.0 - 6.0									56.80					43.2
B-5	1	4	A-1-b	0.0 - 2.0	91.4	91.40	81.60	69.50	61.40	51.10	43.00	26.90	20.20					7.5
B-6	2	4	A-1-b	2.0 - 4.0	93.6	87.90	65.00	58.10	52.20	46.10	38.20	20.00	16.40					13.3
B-6	3	1	A-2-4	4.0 - 5.0									36.20					35.1
B-10	1	5	A-8	0.0 - 0.5	100.0	96.20	58.70	45.80	39.00	32.20	28.00	19.30	15.50				30.3	9.2
B-13	1	5	A-8	0.0 - 0.5	100.0	100.00	90.00	76.90	69.40	59.00	49.00	27.20	24.00				27.4	11.5

ROADWAY SOIL SURVEY
PERFORMED BY FDOT FOR KROME AVENUE

SURVEY BEGINS AT STATION 223+00
SUVEY ENDS AT STATION 250+00

SURVEY BEGINS AT STATION 239+00
SUVEY ENDS AT STATION 265+00

SURVEY BEGINS AT STATION 478+00
SUVEY ENDS AT STATION 504+00

SURVEY BEGINS AT STATION 531+00
SUVEY ENDS AT STATION 557+00

SURVEY BEGINS AT STATION 585+00
SUVEY ENDS AT STATION 611+00

FINANCIAL PROJ. ID	STATE PROJ NO.	SHEET NO.
410643-1-52-01	N/A	—

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

DATE OF SURVEY : 7/08/02
SURVEY MADE BY : J.RESCIGNO
DATE OF TESTING : 7/16/02
TESTED BY : H. CASTRO
SUBMITTED BY : D.C. MIRO, P.E.

STATE PROJECT NO.: N/A
FINANCIAL PROJECT ID.: 410643-1-52-01

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA.: 223+00
SURVEY ENDS STA. : 250+00
WEATHER : PARTLY CLOUDY AND WARM

LABORATORY No. : S-740
DISTRICT No. : 6
ROAD NO. : SR-997
COUNTY : MIAMI-DADE
LOCATION : T 57 S, R 38 E, SECT.12

LEGEND ▼ WATER TABLE WHERE ENCOUNTERED

REPORT OF TESTS OF MATERIAL FROM ROADWAY FOR USE IN EMBANKMENT AND SUBGRADE

MACHAINCAL ANALYSIS

STRATUM NO.	SAMPLE NO.	% ORGANIC CONTENT	% PASS 10 MESH	% PASS 40 MESH	% PASS 60 MESH	% PASS 200 MESH	CONSTANTS-MATERIAL PASS NO. 40 SIEVE LIQUID LIMIT	PLASTICITY INDEX	GROUP	MATERIAL DESCRIPTION
1	--	--	55	45	39	28	NP	NP	A-2-4	LIGHT BROWN TO GRAY SILTY SAND WITH LIMEROCK FRAGMENTS (FILL)
2	--	--	53	41	38	29	23	1	A-2-4	YELLOW SILTY SAND WITH LIMEROCK

NOTES

1. STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.
2. THE WATER TABLE WAS FOUND TO RANGE FROM 3.9 TO 4.8 FEET BELOW EXISTING GROUND SURFACE AT THE TIME OF THE SURVEY.

EMBANKMENT AND SUBGRADE MATERIALS

1. THE MATERIALS FROM STRATA NOS. 1 AND 2 APPEAR SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD INDEX NO. 505.

David C Miro 8-6-02
DAVID C. MIRO, P.E. DATE
REGISTRATION NO. 16689

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

F.D.O.T. DISTRICT FOUR
MATERIALS OFFICE
DAVID C. MIRO, P.E.
14200 WEST STATE ROAD 84
DAVIE, FLORIDA 33325
P.E. NO. 16689

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
997	MIAMI-DADE	410643-1-52-01

ROADWAY SOIL SURVEY
KROME AVENUE

SHEET NO. B-8

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

PROJECT LOCATION: KROME AVE & BISCAYNE DRIVE

FINANCIAL PROJECT ID.: 249614-5-52-01

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

DATE OF SURVEY : 7/02/2003
SURVEY MADE BY : N. LACHUK
DATE OF TESTING : 7/16/2003
TESTED BY : H. CASTRO
SUBMITTED BY : J.CASTELLANOS, P.E.

SURVEY BEGINS : STA. 239+00 SURVEY ENDS : STA. 265+00

WEATHER: PARTLY CLOUDY & HOT.

LABORATORY No. : S-762
DISTRICT No. : 6
ROAD NO. : SR-997
COUNTY : MIAMI-DADE

LEGEND ▼ WATER TABLE WHERE ENCOUNTERED

	ORGANIC CONTENT			SIEVE ANALYSIS RESULTS						ATTERBERG LIMITS (%)			SOIL TYPE		CORROSION TEST RESULTS						
STRATUM NO.	NO. OF TESTS	ORGANIC (%)	MOISTURE (%)	NO. OF TESTS	% PASSING #10 MESH	% PASSING #40 MESH	% PASSING #60 MESH	% PASSING #200 MESH	MOISTURE (%)	NO. OF TESTS	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	AASHTO GROUP CLASSIFICATION	MATERIAL DESCRIPTION	NO. OF TESTS	pH	RESISTIVITY OHM-CM	CHLORIDE PPM	SULFATE PPM	ENVIRONMENTAL CLASSIFICATION FOR STEEL	ENVIRONMENTAL CLASSIFICATION FOR CONCRETE
1	---	---	---	1	59	46	37	21	12	---	---	---	A-1-b	TAN SANDY LIMEROCK WITH LITTLE SILT (FILL)	---	---	---	---	---	---	---
2	---	---	---	2	64-67	51-56	42-48	24-34	15-19	---	---	---	A-2-4	TAN SILTY SANDY LIMEROCK (FILL)	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---	---	TAN SILTY SANDY LIMESTONE	---	---	---	---	---	---	---

NOTES:

1) STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

2) THE WATER TABLE WAS FOUND TO RANGE FROM 4.8 TO 5.4 FEET BELOW EXISTING GROUND SURFACE AT THE TIME OF THE SURVEY.

EMBANKMENT AND SUBGRADE MATERIAL

1) THE MATERIAL FROM STRATUM NO. 1 (A-1-b) APPEARS TO BE SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX 505.

2) THE MATERIAL FROM STRATUM NO. 2 APPEARS TO BE SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX 505. CERTAIN TYPES OF A-2-4 MATERIAL ARE LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. THEY SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION. THEY MAY BE USED IN THE SUBGRADE PORTION OF THE ROADBED WHEN APPROVED BY THE DISTRICT MATERIALS ENGINEER.

3) STRATUM No. 3 IS A LIMESTONE FORMATION.

J. Castellanos 9/11/03

JUAN CASTELLANOS, P.E. DATE
REGISTRATION NO. 46781

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

F.D.O.T. DISTRICT 4 & 6
MATERIALS OFFICE
JUAN CASTELLANOS, P.E.
14200 WEST STATE ROAD 84
DAVIE, FLORIDA 33325
P.E. NO. 46,781

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-997	MIAMI-DADE	249614-5-52-01

ROADWAY SOIL SURVEY

SHEET NO. **B-9**

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

PROJECT LOCATION: KROME AVE & HAINLIN MILL DRIVE

FINANCIAL PROJECT ID.: 249614-5-52-01

DATE OF SURVEY : 7/01/2003
SURVEY MADE BY : N. LACHUK
DATE OF TESTING : 7/14/2003
TESTED BY : H. CASTRO
SUBMITTED BY : J.CASTELLANOS, P.E.

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS : STA. 478+00 SURVEY ENDS : STA. 504+00

WEATHER: PARTLY CLOUDY & HOT.

LABORATORY No. : S-762
DISTRICT No. : 6
ROAD NO. : SR-997
COUNTY : MIAMI-DADE

LEGEND ▼ WATER TABLE WHERE ENCOUNTERED

	ORGANIC CONTENT			SIEVE ANALYSIS RESULTS						ATTERBERG LIMITS (%)			SOIL TYPE		CORROSION TEST RESULTS						
STRATUM NO.	NO. OF TESTS	ORGANIC (%)	MOISTURE (%)	NO. OF TESTS	% PASSING #10 MESH	% PASSING #40 MESH	% PASSING #60 MESH	% PASSING #200 MESH	MOISTURE (%)	NO. OF TESTS	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	AASHTO GROUP CLASSIFICATION	MATERIAL DESCRIPTION	NO. OF TESTS	pH	RESISTIVITY OHM-CM	CHLORIDE PPM	SULFATE PPM	ENVIRONMENTAL CLASSIFICATION FOR STEEL	ENVIRONMENTAL CLASSIFICATION FOR CONCRETE
1	---	---	---	2	39-60	26-46	21-38	14-20	9-11	---	---	---	A-1-a/A-1-b	TAN SANDY LIMEROCK (FILL)	---	---	---	---	---	---	---
2	---	---	---	2	75-79	55-64	42-51	36-42	24-25	---	---	---	A-2-4	TAN SILTY SANDY LIMEROCK (FILL)	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---	---	TAN SILTY SANDY LIMESTONE	---	---	---	---	---	---	---

NOTES..

1) STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

2) THE WATER TABLE WAS FOUND TO RANGE FROM 4.2 TO 5.2 FEET BELOW EXISTING GROUND SURFACE AT THE TIME OF THE SURVEY.

EMBANKMENT AND SUBGRADE MATERIAL

1) THE MATERIAL FROM STRATUM NO.1 (A-1-a / A-1-b) APPEARS TO BE SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX 505.

2) THE MATERIAL FROM STRATUM NO. 2 APPEARS TO BE SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX 505.
CERTAIN TYPES OF A-2-4 MATERIAL ARE LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. THEY SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
THEY MAY BE USED IN THE SUBGRADE PORTION OF THE ROADBED WHEN APPROVED BY THE DISTRICT MATERIALS ENGINEER.

3) STRATUM No.3 IS A LIMESTONE FORMATION.

JUAN CASTELLANOS, P.E.
REGISTRATION NO. 46781

9/11/03
DATE

REVISIONS						F.D.O.T. DISTRICT 4 & 6 MATERIALS OFFICE JUAN CASTELLANOS, P.E. 14200 WEST STATE ROAD 84 DAVIE, FLORIDA 33325 P.E. NO. 46,781	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY SOIL SURVEY	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		B-10
							SR-997	MIAMI-DADE	249614-5-52-01		

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

PROJECT LOCATION: KROME AVE. & QUAIL ROOST DRIVE
FINANCIAL PROJECT ID.: 249614-5-52-01

DATE OF SURVEY : 6/30/2003
SURVEY MADE BY : N. LACIUK
DATE OF TESTING : 6/30/2003
TESTED BY : H. CASTRO
SUBMITTED BY : J. CASTELLANOS, P.E.

LABORATORY No. : S-762
DISTRICT No. : 6
ROAD NO. : SR-997
COUNTY : MIAMI-DADE

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS : STA. 531+00 SURVEY ENDS : STA. 557+00

WEATHER: PARTLY CLOUDY & HOT.

LEGEND ▼ WATER TABLE WHERE ENCOUNTERED

	ORGANIC CONTENT			SIEVE ANALYSIS RESULTS					ATTERBERG LIMITS (%)			SOIL TYPE		CORROSION TEST RESULTS						
STRATUM NO.	NO. OF TESTS	ORGANIC (%)	MOISTURE (%)	NO. OF TESTS	% PASSING #10 MESH	% PASSING #40 MESH	% PASSING #60 MESH	% PASSING #200 MESH	MOISTURE (%)	NO. OF TESTS	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	AASHTO GROUP CLASSIFICATION	MATERIAL DESCRIPTION	NO. OF TESTS	pH	RESISTIVITY OHM-CM	CHLORIDE PPM	SULFATE PPM	ENVIRONMENTAL CLASSIFICATION FOR STEEL	ENVIRONMENTAL CLASSIFICATION FOR CONCRETE
1	---	---	---	3	43-52	35-39	27-30	8-17	5-9	---	---	---	A-1-b	TAN SANDY LIMEROCK WITH LITTLE SILT (FILL)	---	---	---	---	---	---	---
2	---	---	---	4	66-93	55-85	42-64	11-21	8-11	---	---	---	A-2-4	TAN SILTY SANDY LIMEROCK (FILL)	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---	---	TAN SILTY SANDY LIMESTONE	---	---	---	---	---	---	---

NOTES:

1) STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

2) THE WATER TABLE WAS FOUND TO RANGE FROM 3.7 TO 4.9 FEET BELOW EXISTING GROUND SURFACE AT THE TIME OF THE SURVEY.

EMBANKMENT AND SUBGRADE MATERIAL

1) THE MATERIAL FROM STRATUM NO. 1 (A-1-b) APPEARS TO BE SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX 505.

2) THE MATERIAL FROM STRATA NO. 2 APPEARS TO BE SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX 505. CERTAIN TYPES OF A-2-4 MATERIAL ARE LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. THEY SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION. THEY MAY BE USED IN THE SUBGRADE PORTION OF THE ROADBED WHEN APPROVED BY THE DISTRICT MATERIALS ENGINEER.

3) STRATUM No. 3 IS A LIMESTONE FORMATION.

J. Castellanos 9/11/03

JUAN CASTELLANOS, P.E. DATE
REGISTRATION NO. 46781

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

F.D.O.T. DISTRICT 4 & 6
MATERIALS OFFICE
JUAN CASTELLANOS, P.E.
14200 WEST STATE ROAD 84
DAVIE, FLORIDA 33325
P.E. NO. 46,781

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-997	MIAMI-DADE	249614-5-52-01

ROADWAY SOIL SURVEY

SHEET NO. B-11

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

PROJECT LOCATION: KROME AVE. & EUREKA DRIVE

FINANCIAL PROJECT ID.: 249614-5-52-01

DATE OF SURVEY : 6/26/2003
SURVEY MADE BY : N. LACHUK
DATE OF TESTING : 6/26/2003
TESTED BY : H. CASTRO
SUBMITTED BY : J.CASTELLANOS, P.E.

LABORATORY No. : S-762
DISTRICT No. : 6
ROAD NO. : SR-997
COUNTY : MIAMI-DADE

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS : STA. 585+00 SURVEY ENDS : STA. 611+00

WEATHER: PARTLY CLOUDY & HOT.

LEGEND ▼ WATER TABLE WHERE ENCOUNTERED

	ORGANIC CONTENT			SIEVE ANALYSIS RESULTS						ATTERBERG LIMITS (%)			SOIL TYPE		CORROSION TEST RESULTS						
STRATUM NO.	NO. OF TESTS	ORGANIC (%)	MOISTURE (%)	NO. OF TESTS	% PASSING #10 MESH	% PASSING #40 MESH	% PASSING #60 MESH	% PASSING #200 MESH	MOISTURE (%)	NO. OF TESTS	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	AASHTO GROUP CLASSIFICATION	MATERIAL DESCRIPTION	NO. OF TESTS	pH	RESISTIVITY OHM-CM	CHLORIDE PPM	SULFATE PPM	ENVIRONMENTAL CLASSIFICATION FOR STEEL	ENVIRONMENTAL CLASSIFICATION FOR CONCRETE
1	---	---	---	4	47-58	35-49	25-35	7-16	6-9	---	---	---	A-1-a/A-1-b	TAN SANDY LIMEROCK WITH LITTLE SILT (FILL)	---	---	---	---	---	---	---
2	---	---	---	3	68-72	56-61	42-63	12-27	10-11	---	---	---	A-2-4	TAN SILTY SANDY LIMEROCK (FILL)	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---	---	TAN SILTY SANDY LIMESTONE	---	---	---	---	---	---	---

NOTES:

1) STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

2) THE WATER TABLE WAS FOUND TO RANGE FROM 3.7 TO 4.5 FEET BELOW EXISTING GROUND SURFACE AT THE TIME OF THE SURVEY.

EMBANKMENT AND SUBGRADE MATERIAL

1) THE MATERIAL FROM STRATA NO.1 (A-1-a/A-1-b) APPEARS TO BE SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX 505.

2) THE MATERIAL FROM STRATUM NO. 2 APPEARS TO BE SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX 505. CERTAIN TYPES OF A-2-4 MATERIAL ARE LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. THEY SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION. THEY MAY BE USED IN THE SUBGRADE PORTION OF THE ROADBED WHEN APPROVED BY THE DISTRICT MATERIALS ENGINEER.

3) STRATUM No. 3 IS A LIMESTONE FORMATION.

Castellanos 9-11-03

JUAN CASTELLANOS, P.E. DATE
REGISTRATION NO. 46781

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

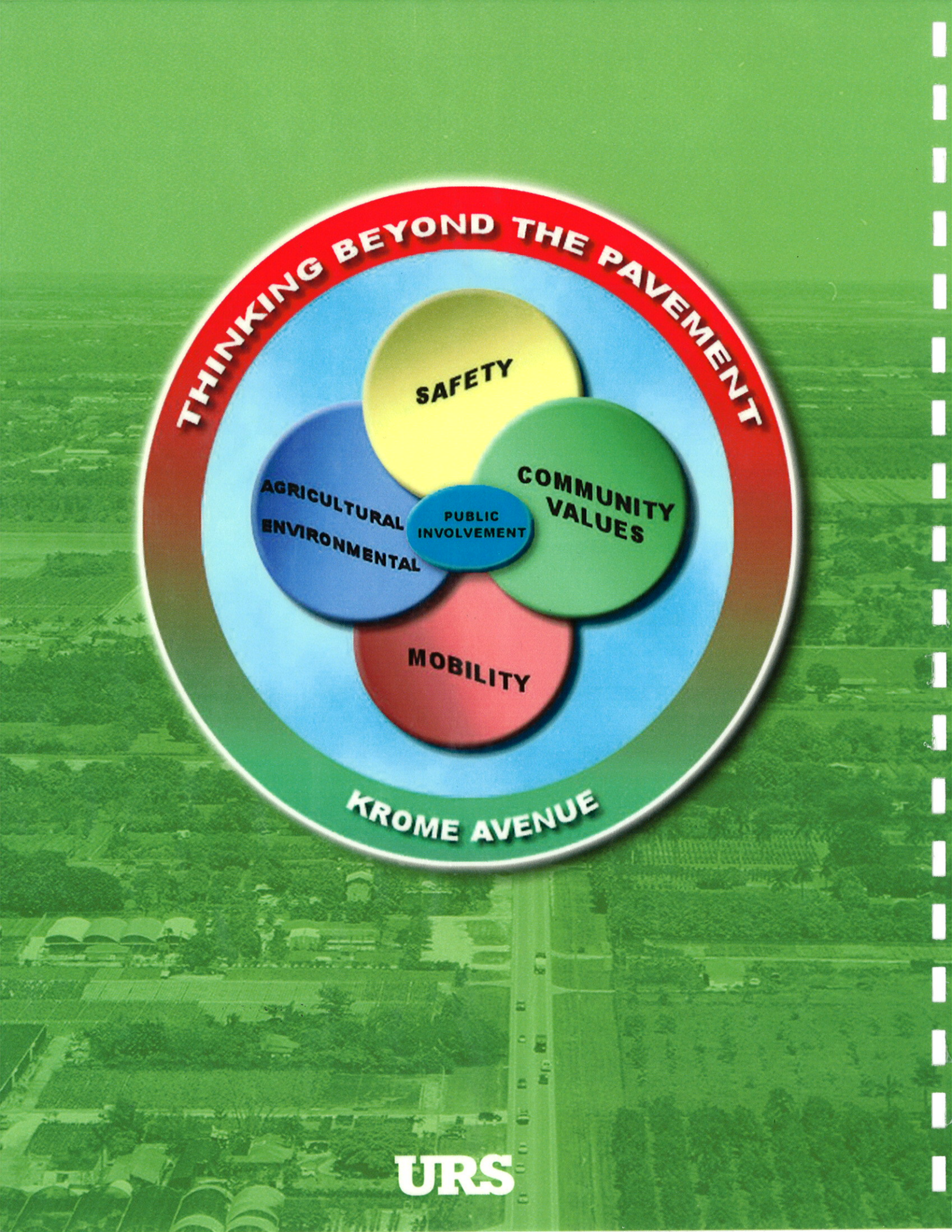
F.D.O.T. DISTRICT 4 & 6
MATERIALS OFFICE
JUAN CASTELLANOS, P.E.
14200 WEST STATE ROAD 84
DAVIE, FLORIDA 33325
P.E. NO. 46,781

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-997	MIAMI-DADE	249614-5-52-01

ROADWAY SOIL SURVEY

SHEET NO. B-12


THINKING BEYOND THE PAVEMENT
SAFETY
COMMUNITY VALUES
AGRICULTURAL
ENVIRONMENTAL
PUBLIC INVOLVEMENT
MOBILITY
KROME AVENUE

URS