

**HIGHLANDS COUNTY
BOARD OF COUNTY COMMISSIONERS
(HCBCC)
PURCHASING DIVISION**

DATE: January 15, 2020

BID NO. ITB 19-005 ADDENDUM No. 3

Project: 19-005 Sebring Parkway Phase IIA Project No. 17062- #429841-1-54-01,
Sebring Parkway Phase IIB Project No. 17063- #433553-1-54-01, and
the City of Sebring Utility Modifications

This addendum, four pages plus the Attachments, is being issued to address questions received and to provide additional information or revisions to the solicitation.

1. Environmental Sciences & Technologies, Inc- Soils Evaluation Report - Attachment A
A location map has been provided but this should only be used as applicable for the soils testing and the map should not be used for construction.
2. Ardaman & Associates. Inc. - Pavement Evaluation - Attachment B
3. Right of Entry letter- example - Attachment C
4. Railroad application for Contractor Occupancy on Railroad Property - Attachment D

5. **Revisions to the Waterline specifications:**

All proposed 6" water line beginning at Station $\pm 468+22$ to Station $\pm 476+30$ will be upsized to 8". All fittings, valves, connections, casings, etc.... will be upsized accordingly.

The proposed 6" water line beginning within the Parkway right-of-way thence along Medical Center Avenue will also be upsized to 8". All fittings, valves, connections, casings, etc.... will be upsized accordingly. Except for the connection into the existing 6" water line. There will need to be a 8" to 6" reducer connected into the proposed 6" stainless steel tapping saddle with 6" gate valve that will connect into the existing 6" water line. There also will be 2 proposed 6" valves cut into the existing water line while keeping the existing water line in service.

6. **The Bid Form Part #5 City of Sebring Utility Modifications (Waterline & Forced Main) has been revised. See Attachment F. All bidder must use the Bid Form Part #5 attached to this Addendum with their bid submittal and the other Parts included in the original solicitation.** Each line item number with changes is highlighted and the information that has been added/revised is highlighted in yellow. The deletions are marked in strike through format.

Question and Answer:

1. Is tree removal included with grubbing price for parking lot improvements? What is included with the grubbing?
Answer: Tree removal for parking lot improvements and within the eastern right-of-way (existing grove) should be included in the Clearing/Grubbing Line Item. Please note that existing citrus trees shall be removed 20' beyond the right-of-way, as discussed in the pre-bid meeting.
2. Will manholes be located in the street traffic lanes?
Answer: No, Manholes on the west side of the Parkway will be located in the proposed easterly sidewalk, rather than within the proposed travel lanes.
3. Anticipated Start date?
Answer: Planned start by May or June 2020
4. Engineers estimated budget?
Answer: Please see Addendum No. 1
5. MOT Plan does it need to be signed and sealed?
Answer: Yes, the MOT plan will need to be signed and sealed by a qualified professional engineer that is licensed & insured in the State of Florida.
6. Federal Funding involved on this?
Answer: No, CIGP FDOT grants are utilized for funding on both projects.
7. What are the FDOT pre-qualifications for the Prime Contractor and for the Subs?
Answer: The Prime Contractor shall be pre-qualified in the trades conducted within the FDOT right-of-way. The sub-contractor(s) will not have to be pre-qualified, as specified by FDOT.
8. We would like to ask you if it is possible to have access to the CAD files of the project? Those can be shared via Dropbox or any other virtual storage service.
Answer: Yes, the following FTP site contains the documents in CAD for the roadway. Utility CAD drawing will not be provided.

Website: <http://ftp1.hcclerk.org>

Login information is: User: bpublic

Password: bpublic1

Files Found at: \bocc_out\Sebring Parkway Phase 2a and 2b
9. Are there any soil borings for the project? Can you provide?
Answer: Yes – See attached Soils & Pavement Evaluation Reports.
10. Is testing all Contractor's responsibility or is any the owner's responsibility?
Answer: All testing is the Contractor's responsibility.
11. Is the Bid Form Lump or Unit Cost?
Answer: This is a Total Bid Amount with line item prices. The Contractor should perform the

work not to exceed the Total Bid Amount. Invoicing will be based on unit prices utilized.

12. There is the same pay item in all the different Bid schedule Parts. Does each pay item need to be the same price?

Answer: Lump Sum line items on Bid Sheet are not required to be the same price, but the other items must use the same pricing.

13. Can we get a copy of the Pre- Bid sign in sheet?

Answer: See Addendum #2 for a copy of the Pre-Bid Meeting Sign In-Sheet.

14. There is a higher than normal insurance coverage and Rail Road insurance. It may be difficult to get subcontractors to get the same insurance coverage. Will the County consider adjusting the amount for the subcontractors?

Answer: The subcontractor(s) will not be required to carry the railroad insurance coverage, as specified by FDOT.

15. For the Rail Road insurance, we need the number of trains per day, type of traffic, etc. If you can provide the agreement the County has with the Rail Road for this track it would be helpful. The contract typically shows what the charges are for a flagger and other required workers.

Answer: Please see the attached Right of Entry Letter and Agreement Application provided by South Central Florida Express, Inc. The Contractor will be responsible for completing the application and paying the \$2,000 fee.

The Contractor is responsible for the cost of a flagger which is \$900 per day for an 8 hour day (not including overtime) and a flagger must be provided anytime work is within 35' of the rail track. The track is used 3 times a week and a flagger would only be required on those days when track is in operation.

16. There is a part of the bid Package that addresses Owner Direct Purchase of materials and that Builders Risk would be required with any Owner Direct Purchased Materials. Can you specify how much Builders Risk is involved so Contractors will not be guessing?

Answer: We should **not** have any owner direct purchase of materials, so Builders Risk related to that does not apply.

17. Will you pay a Contractor for stored Materials?

Answer; No, the materials will be paid when invoiced and in place properly.

18. Clarify area the Contractor can use for staging?

Answer: A portion of land located at 1720 S. Highlands Ave (north of the Fred Wild Elementary School) is owned by Highlands County and could be possibly be used for staging. It is outside of the project area, so proper MOT and returning the site to existing or better conditions would be required. Site Map on Attachment E

There are several vacant parcels along the proposed project that could possibly be leased for staging areas at the expense and coordination efforts of the contractor. Please also note that the contractor will be responsible for securing an area to dispose of the existing citrus trees (within the right-of-way and 20' wide adjacent maintenance aisle), located at 3593 Desoto Rd., Sebring 33870.

19. Are the subcontractor qualification information to be provided with the bid or after the bid upon the County's request?
Answer: The awarded contractor shall provide the subcontractor information after the bid, upon the County's request.
20. Contractor is to provide the MOT Plan? Signed and Sealed?
Answer: Yes, the MOT plan will need to be provided by the contractor and will need to be signed and sealed by a qualified professional engineer that is licensed & insured in the State of Florida.
21. Clarification of what the Contractor is responsible for testing and what the Owner is responsible for? (SC-7.26 and SC-14.02)
Answer: Please refer to the General Notes Section for each plan set. Contractor is responsible for all required testing & costs associated with said activities. The County will provide an inspector to ensure that the project is constructed as the design intends.
22. What will the requirement be to maintain the existing walkway on Desoto, while the new one is being built?
Answer: Access to the existing residences shall be maintained during construction. Please provide a bypass route that is ADA compliant during sidewalk construction activities.
23. Please provide clarification on the FDOT pre-qualification requirements. FDOT only requires specific classification of the major scope of the work (i.e. drainage, grading, flexible pavement, Hot Plant-Mixed, 50% or more of the project work), not typically items such as Traffic Signal, Signing and some of the non-critical / smaller quantity items. I don't believe there are any (or very few) Contractors that would have all of the FDOT pre-qualification you are requiring.
Answer: The subcontractors do not have to be FDOT Prequalified.
24. Bid Item No. 11 specifies 14" DR11 HDPE HDD (Water Line) and Bid Item No. 50 specifies 12" DR 11 HDPE HDD (Force Main). Can 12" DR18 Fusible PVC® (Water Line) and 10" DR18 Fusible PVC® (Force Main) be used as an alternate for the HDD installations? Fusible PVC® pipe would provide the following benefits:
- Same dimensionality and pressure capacities as the DR 18 PVC it will be connecting to
 - Eliminate the need for 14" x 12" and 12" x 10" reducers and fused adaptors for connections
 - Provides a greater pressure capacity
 - Higher critical buckling pressure
 - Lower total installed cost – lower pipe weight, less fittings and smaller bore hole
- Answer:** The requested material does not meet the requirements of the County's Land Development Regulations and therefore will not be allowed to be used as an alternate material within the County right-of-way.

ATTACHMENT A



Environmental Sciences & Technologies, Inc.

Geology • Hydrology • Environmental Sciences

May 20, 2004

Mr. Tom Moran, E.I.
Chastain Skillman, Inc.
P. O. Box 7036
Sebring, FL 33872-0101

**RE: Sebring Parkway Phase 2
Soils Evaluation Report
Sebring, Florida**

Dear Tom:

Environmental Sciences & Technologies, Inc. (EST) has completed the soils evaluation activities for the above referenced site. This report includes all procedures and findings from the evaluation.

EST appreciates the opportunity to be of service to you on this project. Please do not hesitate to contact our office if you have any questions.

Cordially,


**Environmental Sciences
& Technologies, Inc.**

Joe W. Howell, PWS, CPSS
Principal Ecologist/Soil Scientist

JWH/CSI/Sebring Parkway Ph 2/Soils Eval -1537

xc: Ron Cauthan, P.E.

Enclosure

SEBRING PARKWAY PHASE 2 SOILS EVALUATION REPORT

1.0 Introduction

Environmental Sciences & Technologies, Inc. (EST) completed a site specific soils evaluation of the above referenced site. The purpose of the site inspection was to determine seasonal high water table (SHWT) depths and verify the existing soil condition within the project area. Chastain Skillman, Inc. (CSI) defined the locations and identification of the soil borings for EST. The site is located in Sections 19, 20, 29 and 34, Township 34 South, Range 29 East of Highlands County, Florida.

2.0 Survey Methodologies

The evaluation consisted of sixteen soil borings conducted within a seven proposed stormwater treatment areas. The soil borings were conducted to a depth of 25.0 and 13 feet below land surface (BLS). Table 1 indicates the location of the borings within the pond area.

The purpose of the borings was to confirm the uniformity of soil texture and type classification throughout the site as mapped by the USDA Natural Resource Conservation Service (NRCS) Highlands County Soil Survey (USDA, 1989). The soil type, texture, depth of SHWT, and if present, spodic (organic/metal accumulation zone) depth were determined and recorded. All soil classification methodologies were conducted in accordance with USDA Natural Resource Conservation Service Soil taxonomic (USDA, 1975) and survey criteria (USDA, 1993).

Special Note: The seasonal high water table (SHWT) is defined as that wetted soil zone (capillary fringe) which occurs above the surficial aquifer, at its highest average elevation during the wettest part of the year. This wetted soil zone is typically characterized as 4 to 7 inches in thickness; but it may be thicker due to soil textural conditions affecting capillary action. A soil's SHWT zone occurs above the static water table and at the defined depth for durations of more than a few weeks. The determination of SHWT is a field estimate conducted by a soil scientist and is based upon a variety of soil properties. The soil properties which defined SHWT(s) are predictable over a long period of time, but are not predictable from year to year. This means that the SHWT typically occurs within the estimated depth range for the major portion of wet seasons over a long period of time under historically normal climatic and unaltered hydrologic conditions, i.e. 7 to 8 normal rainfall years out of 10 normal rainfall years. Variation in climatic and hydrologic conditions may affect water table fluctuations from year to year. Therefore, SHWT determinations are an estimation of soil water conditions that have historically occurred at a site under normal climatic conditions. Engineering designs based upon SHWT estimations should be developed in such a way to account for possible environmental and biological variations which may affect SHWT fluctuations in abnormal years.

One horizontal and vertical falling head hydraulic conductivity test was conducted at each soil boring location. The hydraulic conductivity test was performed on soil material collected at approximately 3.0 to 4.0 feet below land surface. The permeability test procedure was conducted in accordance with the methodology outlined in Jammal & Associates, Inc./Southwest Florida Water Management District (SWFWMD) Stormwater Retention Pond Infiltration Analyses Report (Jammal, 1989).

At each sample location, two undisturbed soil cores were collected. One core sample was collected horizontally and the second vertically through the soil profile. The sample cores were then tested to determine horizontal and vertical permeability. Four test runs were conducted per core sample. The mean permeability value was calculated and reported.

3.0 Survey Results

The Highlands County Soil Survey indicates an Astatula-Urbanland Complex as occurring around the general project area. The soil boring data confirmed the presence of an Astatula sand. A summary of the soil profile conditions is provided in Table 2. Soil profile descriptions are provided in Appendix A. Table 3 provides a summary of the permeability values determined at the soil boring locations.

4.0 REFERENCES

1. Jammal & Associates, Inc. 1989. Stormwater Retention Pond Infiltration Analysis in Unconfined Aquifers. 95 pp.
2. United States Department of Agriculture. 1993. Soil Survey Manual. U.S. Dep. Agric. Handb. 18, 437 pp., illus.
3. United States Department of Agriculture. 1975. Soil Taxonomy: A Basic System of Soil Classification for Making and Interpreting Soil Surveys. Natural Resource Conserv. Serv., U.S. Dep. Agric. Handb. 436, 754 pp., illus.
4. United States Department of Agriculture. 1989. Soil Survey of Highlands County, Florida. Natural Resource Conserv. Serv. 240 pp., illus.

**Table 1
Soil Boring Location Data**

Soil Boring #	Stormwater Treatment Pond #	Soil Boring Depth (ft.)
SB-1	Pond #1 @ Grapefruit Avenue and Eucalyptus Street	25 ft. BLS
SB-2	Pond #1 @ Grapefruit Avenue and Eucalyptus Street	25 ft. BLS
SB-3	Pond #2 @ north side of Sebring High School	25 ft. BLS
SB-4	Pond #2 @ north side of Sebring High School	25 ft. BLS
SB-5	Pond #3 @ center of the block south of Kenniworth Blvd.	25 ft. BLS
SB-6	Pond #3A North of Fred Wilde Elementary School	25 ft. BLS
SB-7	Pond #3A North of Fred Wilde Elementary School	25 ft. BLS
SB-8	Pond #3A North of Fred Wilde Elementary School	25 ft. BLS
SB-9	Pond #5 @ east side of Highlands County Hospital	25 ft. BLS
SB-10	Pond #5 @ east side of Highlands County Hospital	25 ft. BLS
SB-11	Pond #4 west side of Highlands Avenue (Wahl's Property)	25 ft. BLS
SB-12	Pond #4 west side of Highlands Avenue (Wahl's Property)	25 ft. BLS
SB-13	Pond #4 west side of Highlands Avenue (Wahl's Property)	25 ft. BLS
SB-14	Pond #4 west side of Highlands Avenue (Wahl's Property)	13 ft. BLS
SB-15	East end of swale area along the south side of Desoto Road	13 ft. BLS
SB-16	West end of swale area along the south side of Desoto Road	13 ft. BLS

**TABLE 2
SOIL PROFILE SUMMARY**

Boring #	Boring Location	Map Unit	SHWT (In. BLS)	Ground-water (In. BLS)	Restrictive Zone (In. BLS)
SB-1	West end of pond	Astatula sand	214 - 219 in.	240 in.	Sandy clay @ 240 to 300 in.
SB-2	East end of pond	Astatula sand	214 - 219 in.	240 in.	Sandy clay @ 240 to 300 in.
SB-3	North end of pond	Astatula sand	>300 in.	>300 in.	Sandy clay @ 300 in.
SB-4	South end of pond	Astatula sand	>300 in.	>300 in.	Sandy clay @ 180 to 300 in.
SB-5	Center of pond	Astatula sand	>300 in.	>300 in.	Sandy clay @ 240 to 300 in.
SB-6	West end of pond	Astatula sand	>300 in.	>300 in.	Sandy clay @ 300 in.
SB-7	Center of pond	Astatula sand	>300 in.	>300 in.	Sandy clay @ 300 in.
SB-8	East end of pond	Astatula sand	>300 in.	>300 in.	None within 300 in.
SB-9	North end of pond	Astatula sand	144 - 149 in.	180 in.	Sandy clay @ 180 to 300 in.
SB-10	South end of pond	Astatula sand	156 - 161 in.	192 in.	Sandy clay @ 120 to 300 in.
SB-11	North end of pond	Tavares fine sand	60 - 65 in.	96 in.	Sandy clay @ 84 to 300 in.
SB-12	Center of pond	Tavares fine sand	36 - 41 in.	72 in.	Sandy clay @ 84 to 300 in.
SB-13	South end of pond	Tavares fine sand	36 - 41 in.	72 in.	Sandy clay @ 84 to 300 in.
SB-14	Northeast corner of pond	Astatula sand	>156 in.	>156 in.	None within 156 in.
SB-15	East end of swale	Astatula sand	>156 in.	>156 in.	None within 156 in.
SB-16	West end of swale	Astatula sand	>156 in.	>156 in.	None within 156 in.

TABLE 3
HYDRAULIC CONDUCTIVITY TEST RESULTS

Sample Location ID#	Mean Vertical Hydraulic Conductivity (K_v) Value (in. per hour)	Mean Horizontal Hydraulic Conductivity (K_H) Value (in. per hour)
SB-1	19.9 in./hr	20.4 in./hr
SB-2	20.1 in./hr	20.3 in./hr
SB-3	21.7 in./hr	22.2 in./hr
SB-4	22.5 in./hr	22.8 in./hr
SB-5	26.6 in./hr	26.6 in./hr
SB-6	24.2 in./hr	24.9 in./hr
SB-7	24.2 in./hr	24.7 in./hr
SB-8	25.5 in./hr	26.1 in./hr
SB-9	20.4 in./hr	20.6 in./hr
SB-10	21.0 in./hr	21.1 in./hr
SB-11	15.9 in./hr	16.3 in./hr
SB-12	16.0 in./hr	16.4 in./hr
SB-13	15.6 in./hr	16.0 in./hr
SB-14	28.4 in./hr	29.0 in./hr
SB-15	28.9 in./hr	29.5 in./hr
SB-16	29.8 in./hr	29.8 in./hr

APPENDIX A
Soil Profile Logs

ENVIRONMENTAL SCIENCES TECHNOLOGIES, INC. SOIL PROFILE LOG

PROJECT #:	Chastain-Skillman, Inc. (CSI-1537)	BORING #:	SB-1
PROJECT NAME:	Sebring Parkway Phase 2		
LOCATION:	Pond # 1 - Southeast corner of Grapefruit Ave. and Eucalyptus St. (west end of pond)		
ATLAS SHEET #:	10 - Highlands County Soil Survey	DATE:	4/24/2003
MAPPING UNIT:	Astatula sand		
BORING TYPE:	4 in. dia. solid stem augers		
BORING DEPTH:	300 in. BLS (25 ft.)	GROUNDWATER:	240 in. BLS

Elev. (Feet)	Depth (Inches)	Horizon Legend	Profile Description
			NOTE: Soil colors reported as moist colors. .
	0 - 14		Brown (10 YR 5/3) fine sand; single-grained; loose; dry.
	14 - 30		Light yellowish brown (10YR 6/4) fine sand; single-grained; loose; dry.
	30 - 214		Yellow (10YR 7/8) fine sand; single-grained; loose; dry.
	214 - 240		Very pale brown (10YR 8/4) fine sand; single-grained; loose; dry to wet.
	240 - 300	Restrict.	Yellowish red (5YR 5/8) sandy clay; subangular blocky structure; friable; wet.
	214 - 219	SHWT	Seasonal high water table estimated to be approx. 214 to 219 inches BLS.
	240	H2O	Groundwater contact made approx. 240 inches BLS.

COMPLETED BY: Joe W. Howell,
Certified Professional Soil Scientist #02814

ENVIRONMENTAL SCIENCES TECHNOLOGIES, INC.
SOIL PROFILE LOG

PROJECT #:	Chastain-Skillman, Inc. (CSI-1537)	BORING #:	SB-2
PROJECT NAME:	Sebring Parkway Phase 2		
LOCATION:	Pond # 1 - Southeast corner of Grapefruit Ave. and Eucalyptus St. (east end of pond)		
ATLAS SHEET #:	10 - Highlands County Soil Survey	DATE:	4/24/2003
MAPPING UNIT:	Astatula sand		
BORING TYPE:	4 in. dia. solid stem augers		
BORING DEPTH:	300 in. BLS (25 ft.)	GROUNDWATER:	240 in. BLS

Elev. (Feet)	Depth (Inches)	Horizon Legend	Profile Description
			NOTE: Soil colors reported as moist colors.
	0 - 16		Brown (10 YR 5/3) fine sand; single-grained; loose; dry.
	16 - 41		Light yellowish brown (10YR 6/4) fine sand; single-grained; loose; dry.
	41 - 214		Yellow (10YR 7/8) fine sand; single-grained; loose; dry.
	214 - 240		Very pale brown (10YR 8/4) fine sand; single-grained; loose; dry to wet.
	240 - 300	Restrict.	Yellowish red (5YR 5/8) sandy clay; subangular blocky structure; friable; wet.
	214 - 219	SHWT	Seasonal high water table estimated to be approx. 214 to 219 inches BLS.
	240	H2O	Groundwater contact made approx. 240 inches BLS.

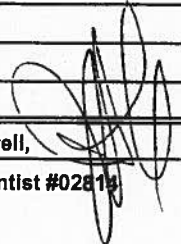
COMPLETED BY: Joe W. Howell,
Certified Professional Soil Scientist #02814

ENVIRONMENTAL SCIENCES TECHNOLOGIES, INC.

SOIL PROFILE LOG

PROJECT #:	Chastain-Skillman, Inc. (CSI-1537)	BORING #:	SB-3
PROJECT NAME:	Sebring Parkway Phase 2		
LOCATION:	Pond # 2 - North of Sebring High School (North side of pond)		
ATLAS SHEET #:	14 - Highlands County Soil Survey	DATE:	4/24/2003
MAPPING UNIT:	Astatula sand		
BORING TYPE:	4 in. dia. solid stem augers		
BORING DEPTH:	300 in. BLS (25 ft.)	GROUNDWATER:	>300 in. BLS

Elev. (Feet)	Depth (Inches)	Horizon Legend	Profile Description
			NOTE: Soil colors reported as moist colors.
	0 - 16		Brown (10 YR 5/3) fine sand; single-grained; loose; dry.
	16 - 48		Light yellowish brown (10YR 6/4) fine sand; single-grained; loose; dry.
	48 - 300		Yellow (10YR 7/8) fine sand; single-grained; loose; dry.
	300	Restrict.	Yellowish red (5YR 5/8) sandy clay; subangular blocky structure; friable; dry.
	>300	SHWT	Seasonal high water table estimated to be greater than 300 inches BLS.
	>300	H2O	No groundwater contact made within 300 inches BLS.

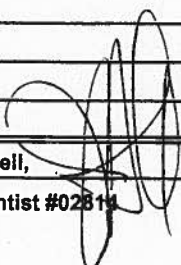
COMPLETED BY: Joe W. Howell, 
 Certified Professional Soil Scientist #02814

ENVIRONMENTAL SCIENCES TECHNOLOGIES, INC.
SOIL PROFILE LOG

PROJECT #:	Chastain-Skillman, Inc. (CSI-1537)	BORING #:	SB-5
PROJECT NAME:	Sebring Parkway Phase 2		
LOCATION:	Pond # 3 - south of Kenniworth Blvd. (north side of Central Glass Co. building)		
ATLAS SHEET #:	14 - Highlands County Soil Survey	DATE:	4/24/2003
MAPPING UNIT:	Astatula sand		
BORING TYPE:	4 in. dia. solid stem augers		
BORING DEPTH:	300 in. BLS (25 ft.)	GROUNDWATER:	>300 in. BLS

Elev. (Feet)	Depth (Inches)	Horizon Legend	Profile Description
			NOTE: Soil colors reported as moist colors.
	0 - 13		Brown (10 YR 5/3) fine sand; single-grained; loose; dry.
	13 - 60		Light yellowish brown (10YR 6/4) fine sand; single-grained; loose; dry.
	60 - 240		Yellow (10YR 7/8) fine sand; single-grained; loose; dry.
	240 - 300	Restrict.	Yellowish red (5YR 5/8) sandy clay; subangular blocky structure; friable; dry.
	>300	SHWT	Seasonal high water table estimated to be greater than 300 inches BLS.
	>300	H2O	No groundwater contact made within 300 inches BLS.

COMPLETED BY: Joe W. Howell,
Certified Professional Soil Scientist #02814



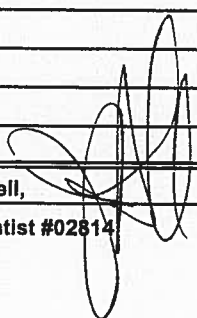
ENVIRONMENTAL SCIENCES TECHNOLOGIES, INC.

SOIL PROFILE LOG

PROJECT #:	Chastain-Skillman, Inc. (CSI-1537)	BORING #:	SB-6
PROJECT NAME:	Sebring Parkway Phase 2		
LOCATION:	Pond # 3A - north side of Fred Wilde Elementary School (west end of pond)		
ATLAS SHEET #:	14 - Highlands County Soil Survey	DATE:	4/24/2003
MAPPING UNIT:	Astatula sand		
BORING TYPE:	4 in. dia. solid stem augers		
BORING DEPTH:	300 in. BLS (25 ft.)	GROUNDWATER:	>300 in. BLS

Elev (Feet)	Depth (Inches)	Horizon Legend	Profile Description
			NOTE: Soil colors reported as moist colors.
	0 - 15		Brown (10 YR 5/3) fine sand; single-grained; loose; dry.
	15 - 60		Light yellowish brown (10YR 6/4) fine sand; single-grained; loose; dry.
	60 - 300		Yellow (10YR 7/8) fine sand; single-grained; loose; dry.
	300	Restrict.	Yellowish red (5YR 5/8) sandy clay; subangular blocky structure; friable; dry.
	>300	SHWT	Seasonal high water table estimated to be greater than 300 inches BLS.
	>300	H2O	No groundwater contact made within 300 inches BLS.

COMPLETED BY: Joe W. Howell,
 Certified Professional Soil Scientist #02814



ENVIRONMENTAL SCIENCES TECHNOLOGIES, INC.
SOIL PROFILE LOG

PROJECT #:	Chastain-Skillman, Inc. (CSI-1537)	BORING #:	SB-8
PROJECT NAME:	Sebring Parkway Phase 2		
LOCATION:	Pond # 3A - north side of Fred Wilde Elementary School (east end of pond)		
ATLAS SHEET #:	14 - Highlands County Soil Survey	DATE:	4/24/2003
MAPPING UNIT:	Astatula sand		
BORING TYPE:	4 in. dia. solid stem augers		
BORING DEPTH:	300 in. BLS (25 ft.)	GROUNDWATER:	>300 in. BLS

Elev. (Feet)	Depth (Inches)	Horizon Legend	Profile Description
			NOTE: Soil colors reported as moist colors.
	0 - 18		Brown (10 YR 5/3) fine sand; single-grained; loose; dry.
	18 - 70		Light yellowish brown (10YR 6/4) fine sand; single-grained; loose; dry.
	70 - 300		Yellow (10YR 7/8) fine sand; single-grained; loose; dry.
	>300	SHWT	Seasonal high water table estimated to be greater than 300 inches BLS.
	>300	H2O	No groundwater contact made within 300 inches BLS.

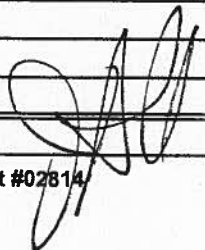
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Certified Professional Soil Scientist #02814

**ENVIRONMENTAL SCIENCES TECHNOLOGIES, INC.
SOIL PROFILE LOG**

PROJECT #:	Chastain-Skillman, Inc. (CSI-1537)	BORING #:	SB-9
PROJECT NAME:	Sebring Parkway Phase 2		
LOCATION:	Pond # 5 - east side of Highlands County Hospital (east end of pond)		
ATLAS SHEET #:	14 - Highlands County Soil Survey	DATE:	4/24/2003
MAPPING UNIT:	Astatula sand		
BORING TYPE:	4 in. dia. solid stem augers		
BORING DEPTH:	300 in. BLS (25 ft.)	GROUNDWATER:	180 in. BLS

Elev. (Feet)	Depth (Inches)	Horizon Legend	Profile Description
			NOTE: Soil colors reported as moist colors.
	0 - 10		Brown (10 YR 5/3) fine sand; single-grained; loose; dry.
	10 - 49		Light yellowish brown (10YR 6/4) fine sand; single-grained; loose; dry.
	49 - 144		Yellow (10YR 7/8) fine sand; single-grained; loose; dry.
	144 - 180		Very pale brown (10YR 8/4) fine sand; single-grained; loose; dry to wet.
	180 - 300	Restrict.	Pale brown (10YR 6/3) sandy clay; subangular blocky structure; friable; wet.
	144 - 149	SHWT	Seasonal high water table estimated to be approx. 144 to 149 inches BLS.
	180	H2O	Groundwater contact made approx. 180 inches BLS.

COMPLETED BY: Joe W. Howell
 Certified Professional Soil Scientist #02814



ENVIRONMENTAL SCIENCES TECHNOLOGIES, INC.

SOIL PROFILE LOG

PROJECT #:	Chastain-Skillman, Inc. (CSI-1537)	BORING #:	SB-10
PROJECT NAME:	Sebring Parkway Phase 2		
LOCATION:	Pond # 5 - east side of Highlands County Hospital (west end of pond)		
ATLAS SHEET #:	14 - Highlands County Soil Survey	DATE:	4/24/2003
MAPPING UNIT:	Astatula sand		
BORING TYPE:	4 in. dia. solid stem augers		
BORING DEPTH:	300 in. BLS (25 ft.)	GROUNDWATER:	192 in. BLS

Elev. (Feet)	Depth (Inches)	Horizon Legend	Profile Description
			NOTE: Soil colors reported as moist colors.
	0 - 10		Brown (10 YR 5/3) fine sand; single-grained; loose; dry.
	10 - 42		Light yellowish brown (10YR 6/4) fine sand; single-grained; loose; dry.
	42 - 120		Yellow (10YR 7/8) fine sand; single-grained; loose; dry.
	120 - 156	Restrict.	Reddish yellow (7.5YR 6/8) fine sand clay; subangular blocky structure; very friable; dry.
	156 - 198	Restrict.	Light yellowish brown (10YR 6/4) sandy clay; with many distinct strong brown (7.5YR 5/6) soft iron masses; subangular blocky structure; friable; dry to wet.
	198 - 300	Restrict.	Pale brown (10YR 6/3) sandy clay; subangular blocky structure; friable; wet.
	156 - 161	SHWT	Seasonal high water table estimated to be approx. 156 to 161 inches BLS.
	192	H2O	Groundwater contact made approx. 192 inches BLS.

COMPLETED BY: Joe W. Howell,
 Certified Professional Soil Scientist #02814

ENVIRONMENTAL SCIENCES TECHNOLOGIES, INC.

SOIL PROFILE LOG

PROJECT #:	Chastain-Skillman, Inc. (CSI-1537)	BORING #:	SB-11
PROJECT NAME:	Sebring Parkway Phase 2		
LOCATION:	Pond # 4 - west side of Highlands Ave.-Wahl Property (north end of pond)		
ATLAS SHEET #:	14 - Highlands County Soil Survey	DATE:	4/24/2003
MAPPING UNIT:	Tavares fine sand		
BORING TYPE:	4 in. dia. solid stem augers		
BORING DEPTH:	300 in. BLS (25 ft.)	GROUNDWATER:	96 in. BLS

Elev. (Feet)	Depth (Inches)	Horizon Legend	Profile Description
			NOTE: Soil colors reported as moist colors.
	0 - 10		Brown (10 YR 5/3) fine sand; single-grained; loose; dry.
	10 - 36		Light yellowish brown (10YR 6/4) fine sand; single-grained; loose; dry.
	36 - 60		Yellow (10YR 7/8) fine sand; single-grained; loose; dry.
	60 - 84		Very pale brown (10YR 7/3) fine sand; single-grained; loose; dry.
	84 - 300	Restrict.	Pale brown (10YR 6/3) sandy clay; subangular blocky structure; friable; dry to wet.
	60 - 65	SHWT	Seasonal high water table estimated to be approx. 60 to 65 inches BLS.
	96	H2O	Groundwater contact made approx. 96 inches BLS.

COMPLETED BY: Joe W. Howell,
 Certified Professional Soil Scientist #02814

ENVIRONMENTAL SCIENCES TECHNOLOGIES, INC.

SOIL PROFILE LOG

PROJECT #:	Chastain-Skillman, Inc. (CSI-1537)	BORING #:	SB-12
PROJECT NAME:	Sebring Parkway Phase 2		
LOCATION:	Pond # 4 - west side of Highlands Ave.-Wahl Property (center of pond)		
ATLAS SHEET #:	14 - Highlands County Soil Survey	DATE:	4/24/2003
MAPPING UNIT:	Tavares fine sand		
BORING TYPE:	4 in. dia. solid stem augers		
BORING DEPTH:	300 in. BLS (25 ft.)	GROUNDWATER:	72 in. BLS

Elev. (Feet)	Depth (Inches)	Horizon Legend	Profile Description
			NOTE: Soil colors reported as moist colors.
	0 - 5		Brown (10 YR 5/3) fine sand; single-grained; loose; dry.
	5 - 18		Light yellowish brown (10YR 6/4) fine sand; single-grained; loose; dry.
	18 - 36		Yellow (10YR 7/8) fine sand; single-grained; loose; dry.
	36 - 84		Very pale brown (10YR 7/3) fine sand; single-grained; loose; dry.
	84 - 300	Restrict.	Pale brown (10YR 6/3) sandy clay; subangular blocky structure; friable; dry to wet.
	36 - 41	SHWT	Seasonal high water table estimated to be approx. 36 to 41 inches BLS.
	72	H2O	Groundwater contact made approx. 72 inches BLS.

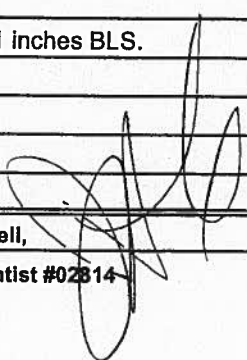
COMPLETED BY: Joe W. Howell,
 Certified Professional Soil Scientist #02814

ENVIRONMENTAL SCIENCES TECHNOLOGIES, INC. SOIL PROFILE LOG

PROJECT #:	Chastain-Skillman, Inc. (CSI-1537)	BORING #:	SB-13
PROJECT NAME:	Sebring Parkway Phase 2		
LOCATION:	Pond # 4 - west side of Highlands Ave.-Wahl Property (south end of pond)		
ATLAS SHEET #:	14 - Highlands County Soil Survey	DATE:	4/24/2003
MAPPING UNIT:	Tavares fine sand		
BORING TYPE:	4 in. dia. solid stem augers		
BORING DEPTH:	300 in. BLS (25 ft.)	GROUNDWATER:	72 in. BLS

Elev. (Feet)	Depth (Inches)	Horizon Legend	Profile Description
			NOTE: Soil colors reported as moist colors.
	0 - 7		Brown (10 YR 5/3) fine sand; single-grained; loose; dry.
	7 - 20		Light yellowish brown (10YR 6/4) fine sand; single-grained; loose; dry.
	20 - 36		Yellow (10YR 7/8) fine sand; single-grained; loose; dry.
	36 - 84		Very pale brown (10YR 7/3) fine sand; single-grained; loose; dry.
	84 - 300	Restrict.	Pale brown (10YR 6/3) sandy clay; subangular blocky structure; friable; dry to wet.
	36 - 41	SHWT	Seasonal high water table estimated to be approx. 36 to 41 inches BLS.
	72	H2O	Groundwater contact made approx. 72 inches BLS.

COMPLETED BY: Joe W. Howell,
 Certified Professional Soil Scientist #02814

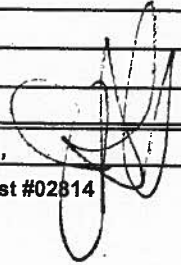


ENVIRONMENTAL SCIENCES TECHNOLOGIES, INC.

SOIL PROFILE LOG

PROJECT #:	Chastain-Skillman, Inc. (CSI-1537)	BORING #:	SB-15
PROJECT NAME:	Sebring Parkway Phase 2		
LOCATION:	East end of swale		
ATLAS SHEET #:	14 - Highlands County Soil Survey	DATE:	4/17/2004
MAPPING UNIT:	Astatula sand		
BORING TYPE:	3.25 in. dia. bucket auger		
BORING DEPTH:	156 in. BLS (13 ft.)	GROUNDWATER:	>156 in. BLS

Elev. (Feet)	Depth (Inches)	Horizon Legend	Profile Description
			NOTE: Soil colors reported as moist colors.
	0 - 10		Brown (10 YR 5/3) fine sand; single-grained; loose; dry.
	10 - 50		Light yellowish brown (10YR 6/4) fine sand; single-grained; loose; dry.
	58 - 156		Yellow (10YR 7/8) fine sand; single-grained; loose; dry.
	>156	SHWT	Seasonal high water table estimated to be greater than 156 inches BLS.
	>156	H2O	No groundwater contact made within 156 inches BLS.

COMPLETED BY: Joe W. Howell, 
 Certified Professional Soil Scientist #02814

ENVIRONMENTAL SCIENCES TECHNOLOGIES, INC.

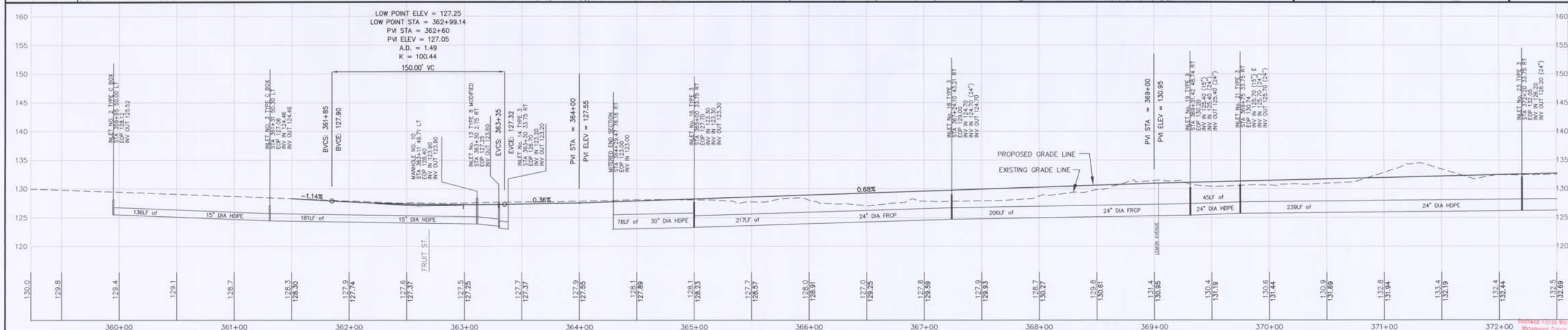
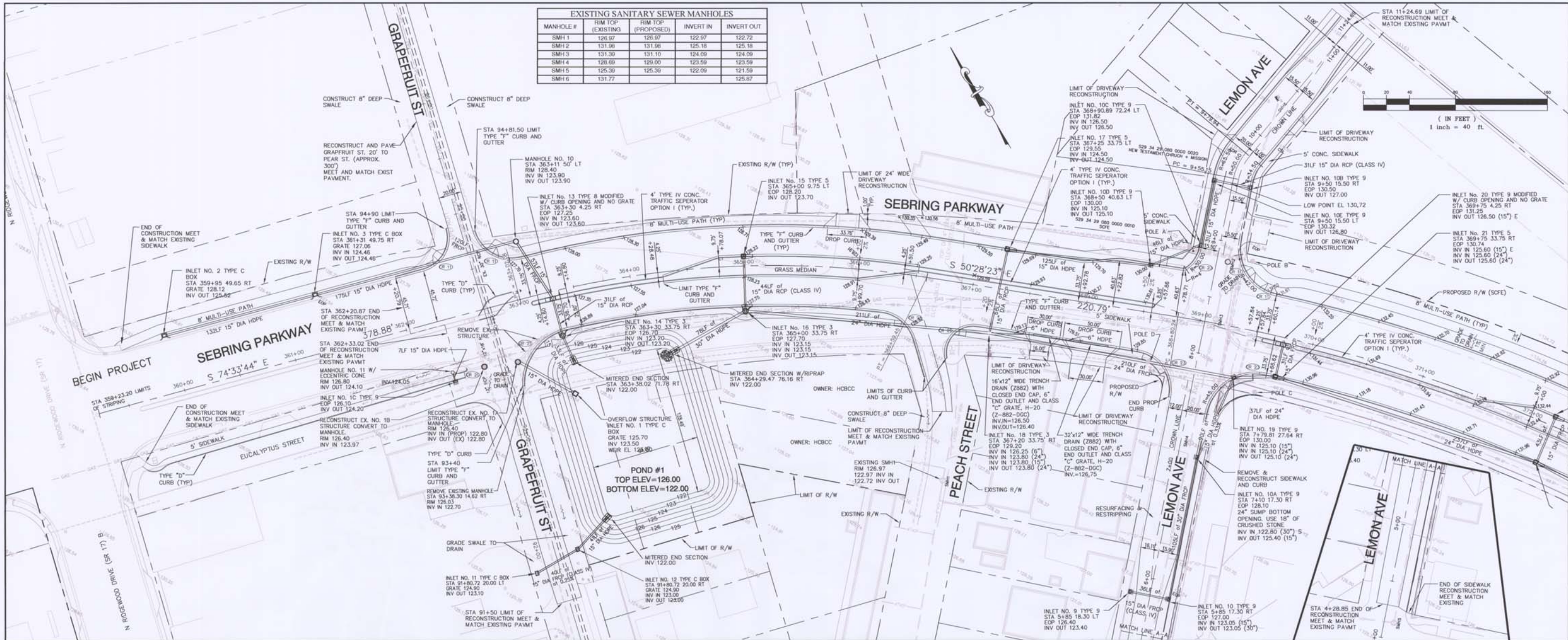
SOIL PROFILE LOG

PROJECT #:	Chastain-Skillman, Inc. (CSI-1537)	BORING #:	SB-16
PROJECT NAME:	Sebring Parkway Phase 2		
LOCATION:	West end of swale		
ATLAS SHEET #:	14 - Highlands County Soil Survey	DATE:	4/17/2004
MAPPING UNIT:	Astatula sand		
BORING TYPE:	3.25 in. dia. bucket auger		
BORING DEPTH:	156 in. BLS (13 ft.)	GROUNDWATER:	>156 in. BLS

Elev. (Feet)	Depth (Inches)	Horizon Legend	Profile Description
			NOTE: Soil colors reported as moist colors.
	0 - 9		Brown (10 YR 5/3) fine sand; single-grained; loose; dry.
	9 - 60		Light yellowish brown (10YR 6/4) fine sand; single-grained; loose; dry.
	60 - 156		Yellow (10YR 7/8) fine sand; single-grained; loose; dry.
	>156	SHWT	Seasonal high water table estimated to be greater than 156 inches BLS.
	>156	H2O	No groundwater contact made within 156 inches BLS.

COMPLETED BY: Joe W. Howell,
 Certified Professional Soil Scientist #0281

EXISTING SANITARY SEWER MANHOLES				
MANHOLE #	RIM TOP (EXISTING)	RIM TOP (PROPOSED)	INVERT IN	INVERT OUT
SMH1	126.97	126.97	122.97	122.72
SMH2	131.98	131.98	125.18	125.18
SMH3	131.39	131.10	124.09	124.09
SMH4	126.69	129.00	123.59	123.59
SMH5	125.39	125.39	122.09	121.59
SMH6	131.77			125.67



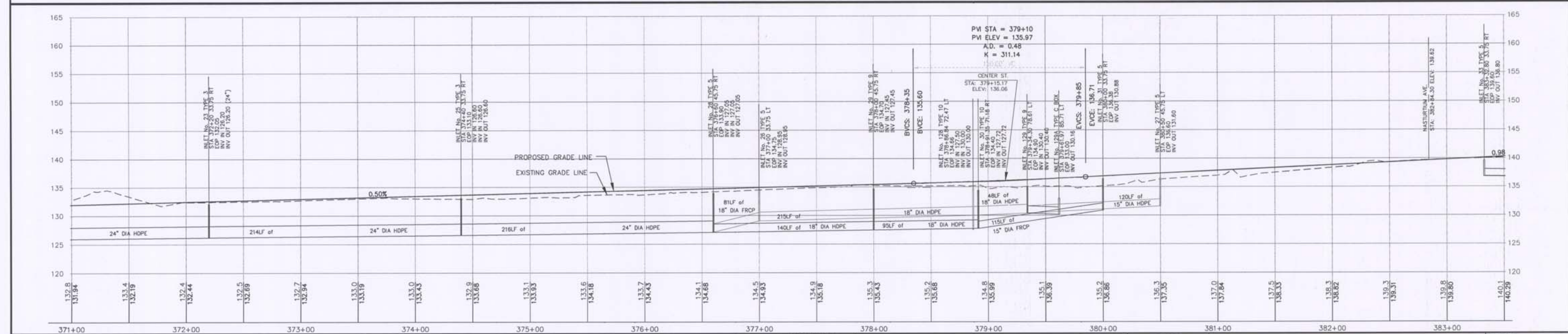
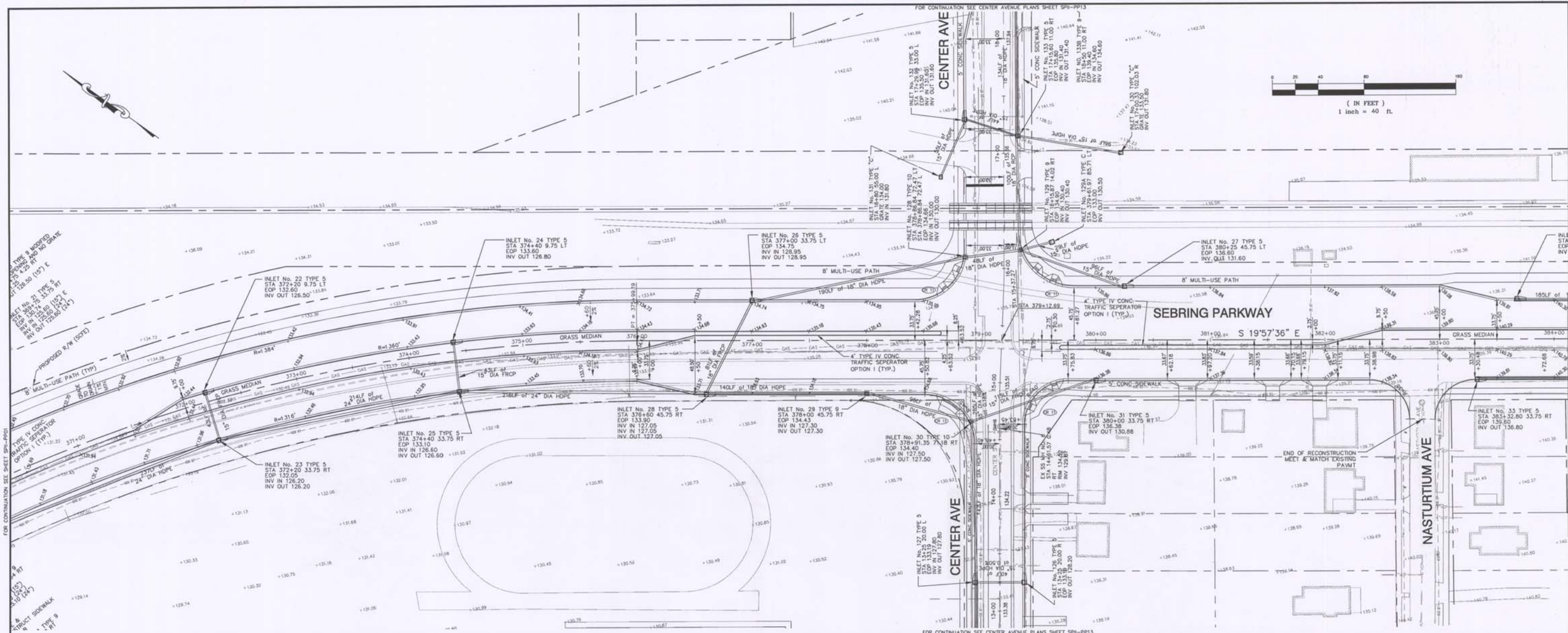
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8-28-2007	TH	ADD DRAINAGE	06-05-2008	TH	SWMFD COMMENTS
12-18-2007	TH	ADD SIDEWALK TO THE WEST SIDE OF ALIGNMENT.			
01-04-2008	TH	ADD GRADES TO ALIGNMENT.			
01-16-2008	TH	MOVE EAST SIDEWALK AND CHANGE INLET NO. 18 TO TYPE 3			
03-11-2008	TH	MOVE EAST SIDEWALK, CHANGE HC RAMPS, CHANGE INLET NO. 20 TO TYPE 8			

DESIGNED BY: RD/TH
 DRAWN BY: TH/RD/DN
 CHECKED BY: E. NORTELUS, P.E.
 IN CHARGE: R. GAVARRRETE, P.E.
 DATE: 03-11-2008

**HIGHLANDS COUNTY
 ENGINEERING DEPARTMENT**
 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870

APPROVED BY: RAMON GAVARRRETE, P.E.
 FLORIDA REGISTRATION NO.: 51372

SCALE: HORIZ. 1" = 40'
 VERT. 1" = 8'
 DRAWING NO. SWP11-pp01
 REV. 0
 SHEET 17 OF 74



REVISIONS		DESCRIPTION
DATE	BY	DESCRIPTION
12-16-2007	TH	CHANGE INVERT ELEVATIONS ON INLETS 29 AND 30
01-16-2008	TH	MOVE EAST SIDEWALK

DESIGNED BY: TH/RD/DN
 DRAWN BY: TH/RD/DN
 CHECKED BY: E. NORTIUS, P.E.
 IN CHARGE: R. GAUVARRETE, P.E.
 DATE: 03-11-2008

HIGHLANDS COUNTY
ENGINEERING DEPARTMENT
 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870

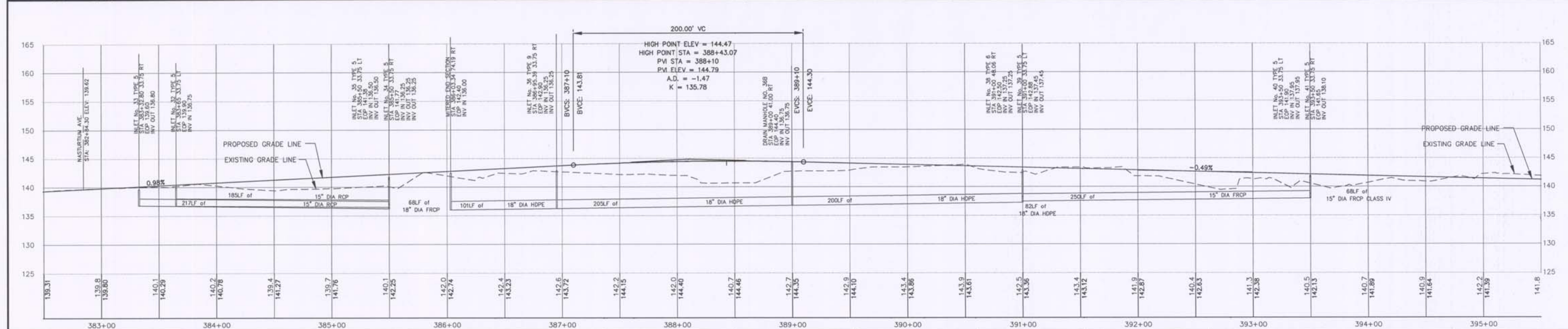
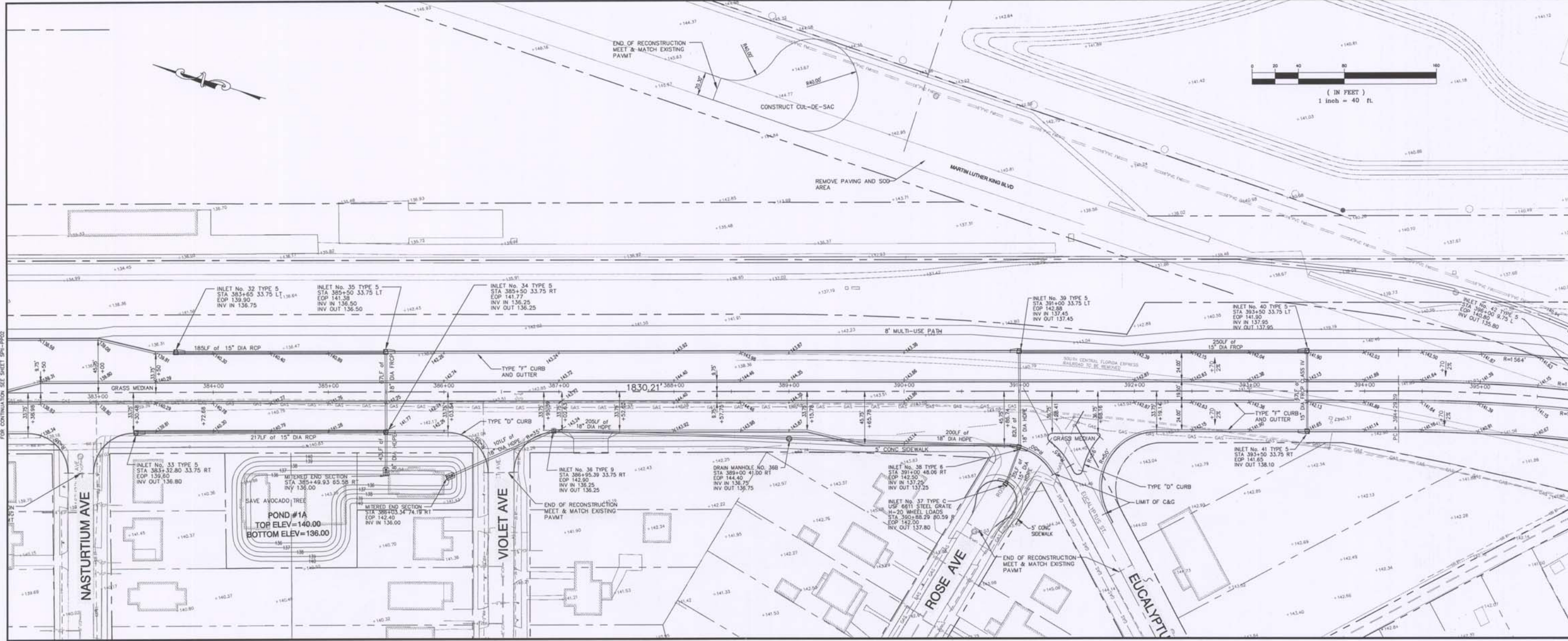
APPROVED BY: RAMON GAUVARRETE, P.E.
 FLORIDA REGISTRATION NO.: 51372
 DATE: 4-12-08

SCALE:
 HORIZ. 1"=40'
 VERT. 1"=8'

SEBRING PARKWAY - PHASE II
SEBRING PARKWAY
PLAN AND PROFILE
 STA 372+00 TO STA 383+00

DRAWING NO. SP11-PP02
 REV. 0
 APR 1 0 2008
 SHEET 18 OF 74

S:\PROJECTS\2008\Phase II\SP11-PP02.dwg, DATE: 03/11/2008 10:42:12 AM



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
01-16-2008	TH	MOVE EAST SIDEWALK, ADD MEDIAN AT VIOLET, FIX ELEVATIONS			
03-11-2008	TH	ADD MH NO. 368 CHANGE PIPE ON INLET NO. 40			

DESIGNED BY: RD/TH
 DRAWN BY: TH/RD/DN
 CHECKED BY: E. NORTELLUS, P.E.
 IN CHARGE: R. GAVARRETE, P.E.
 DATE: 03-11-2008

HIGHLANDS COUNTY
ENGINEERING DEPARTMENT
 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870

APPROVED BY: RAMON GAVARRETE, P.E.
 FLORIDA REGISTRATION NO.: 51372

DATE: 4-4-2008



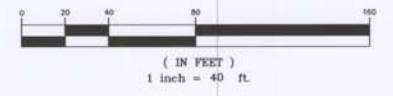
SEBRING PARKWAY - PHASE II
 SEBRING PARKWAY
 PLAN AND PROFILE
 STA 383+00 TO STA 395+00

SCALE:
 HORIZ. 1"=40'
 VERT. 1"=8'

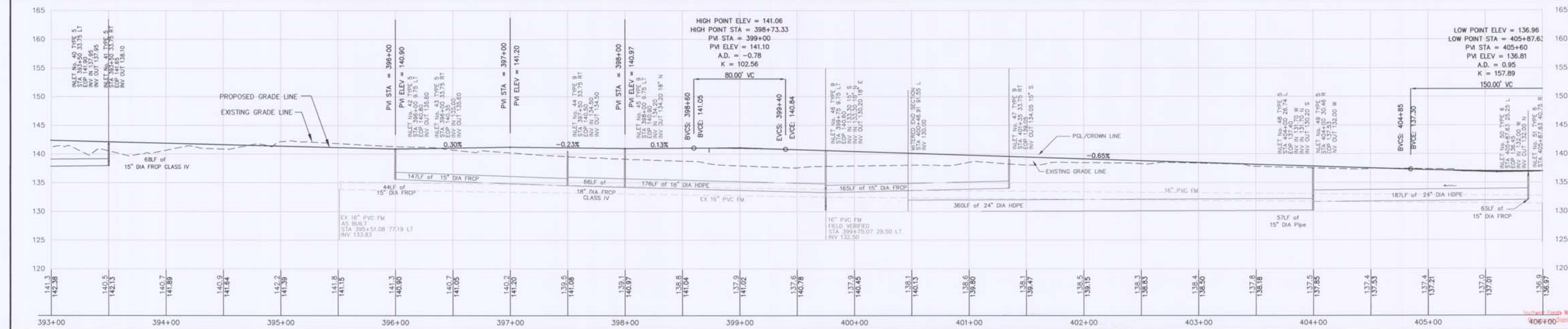
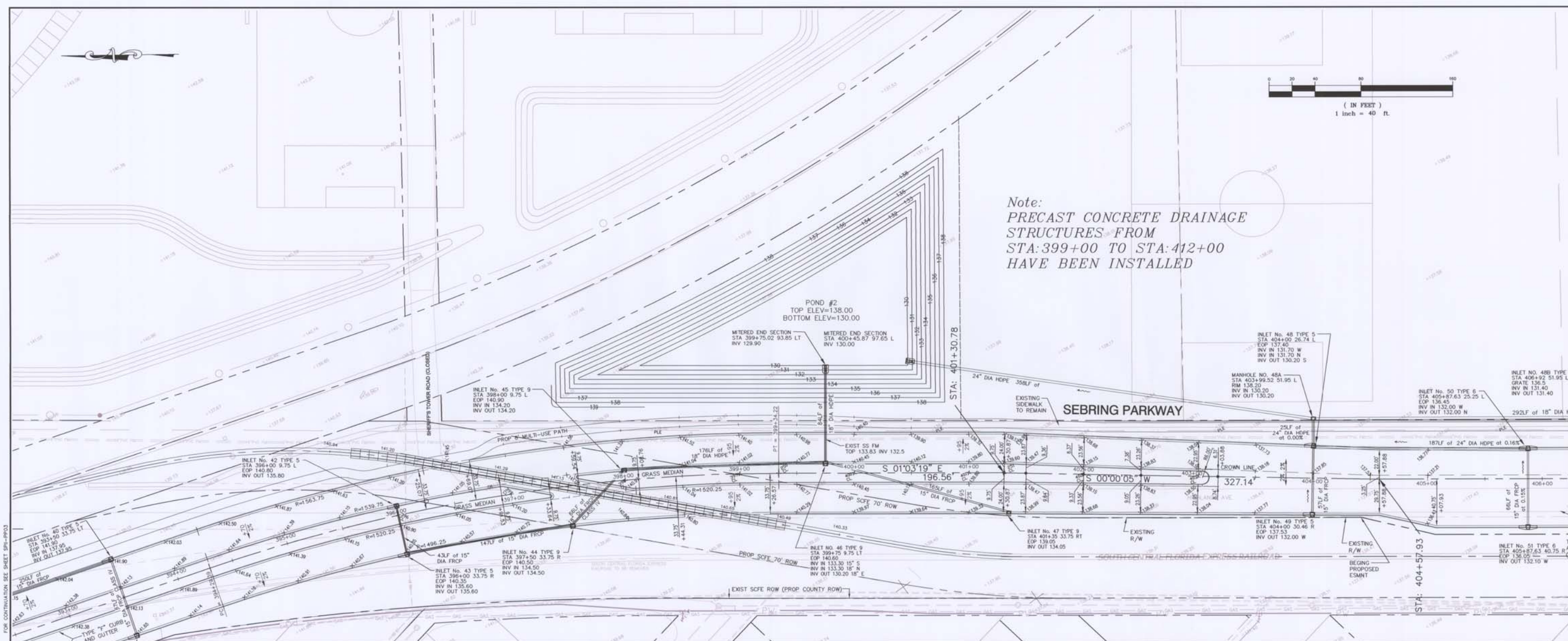
DRAWING NO. SPII-PP03
 REV. 0

APR 10 2008

SHEET 19 OF 74



Note:
 PRECAST CONCRETE DRAINAGE
 STRUCTURES FROM
 STA:399+00 TO STA:412+00
 HAVE BEEN INSTALLED



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
7-18-2007	TH	CHANGE POND SIZE AND MITERED END LOCATION			
7-26-2007	TH	ADD MANHOLE NO. 48A AND MOVE INLET NO. 48 AND NO. 49 TO STATION 404+00			
8-15-2007	TH	ADD DRAINAGE FROM STA: 396+00 TO STA: 401+50			
03-11-2008	TH	CHANGE PIPE FROM INLET NO. 44			
06-05-2008	TH	SWFMM COMMENTS			

DESIGNED BY: RD/TH
 DRAWN BY: TH/RD/DN
 CHECKED BY: E. NORTELLUS, P.E.
 IN CHARGE: R. GAVARRITE, P.E.
 DATE: 03-11-2008

**HIGHLANDS COUNTY
 ENGINEERING DEPARTMENT**
 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870

APPROVED BY: RAMON GAVARRITE, P.E.
 FLORIDA REGISTRATION NO.: 51372

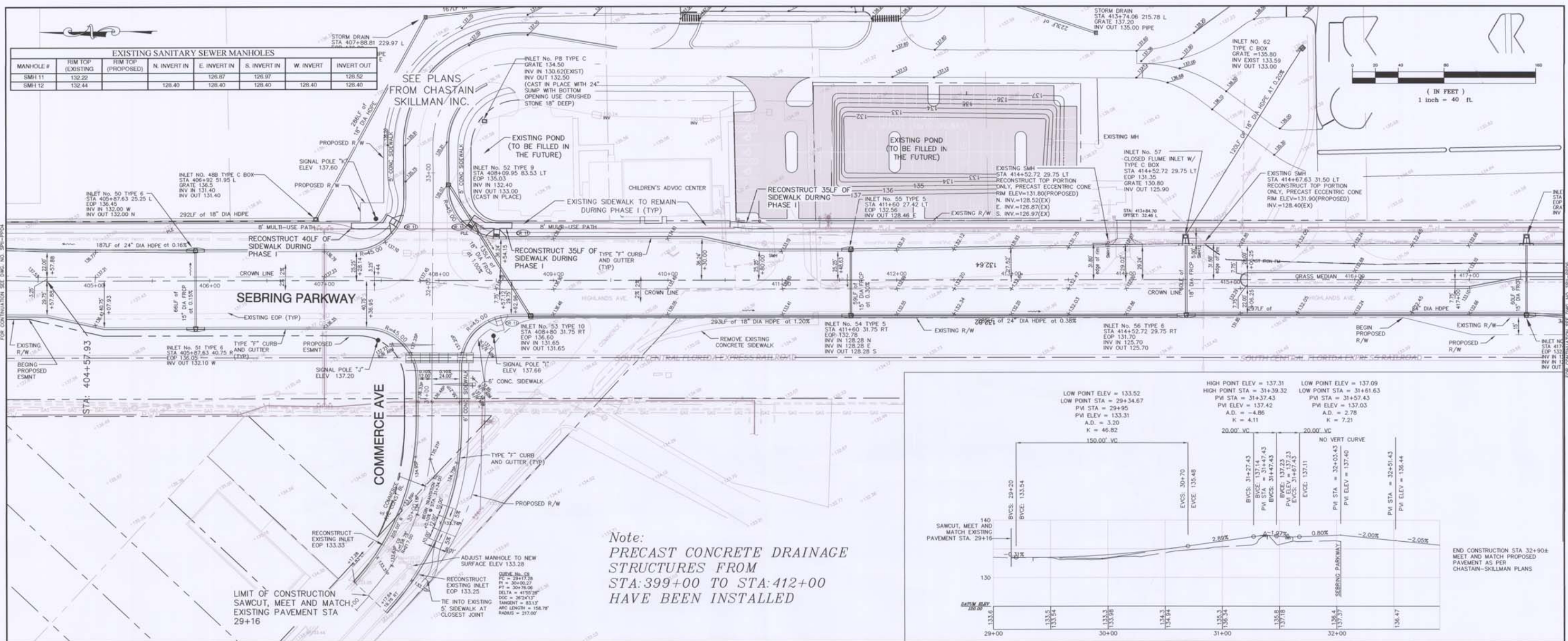
DATE: 6-5-2008



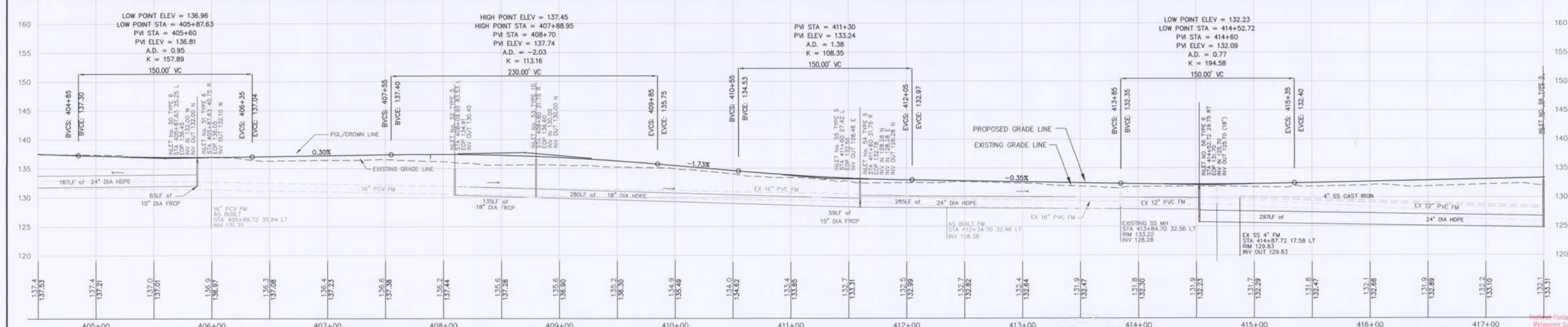
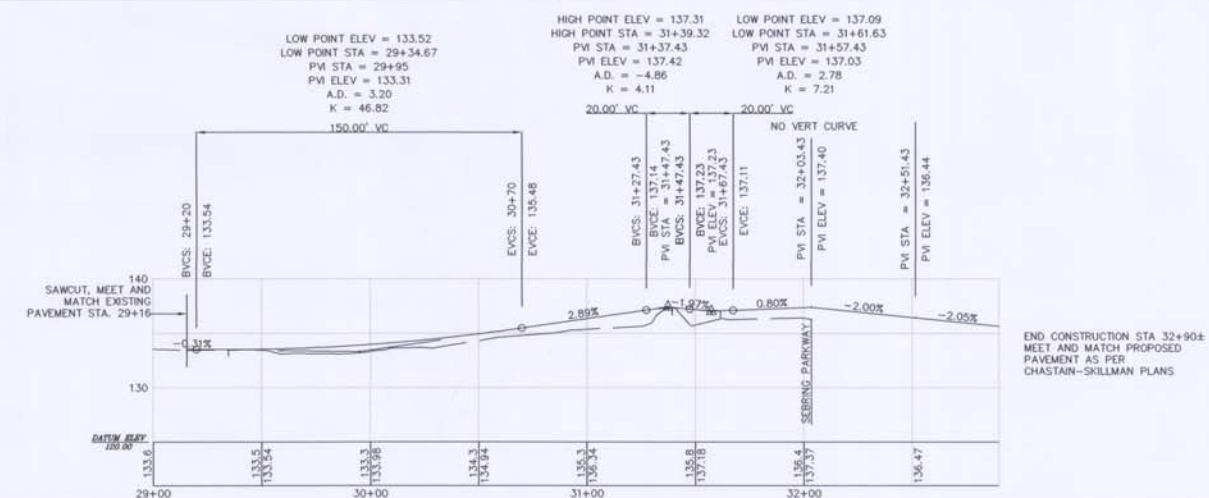
SEBRING PARKWAY - PHASE II
 SEBRING PARKWAY
 PLAN AND PROFILE
 STA 393+00 TO STA 406+00

SCALE: JUN 09 2008
 HORIZ. 1"=40'
 VERT. 1"=10'
 DRAWING NO. SPII-PP04
 REV. 0
 SHEET 20 OF 74

EXISTING SANITARY SEWER MANHOLES						
MANHOLE #	RIM TOP (EXISTING)	RIM TOP (PROPOSED)	N. INVERT IN	E. INVERT IN	W. INVERT	INVERT OUT
SMH11	132.22		128.40	128.40	128.40	128.52
SMH12	132.44		128.40	128.40	128.40	128.40



Note:
 PRECAST CONCRETE DRAINAGE
 STRUCTURES FROM
 STA: 399+00 TO STA: 412+00
 HAVE BEEN INSTALLED



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
7-18-2007	TH	CHANGE INVERT ELEVATION, PIPE SIZE AND BOX TYPE AT INLET NO. 52. ADD LENGTH TO PIP FROM THE HIGH SCHOOL.			
7-20-2007	TH	CHANGE ELEVATIONS ON INLET PB, PIPE SIZE AND BOX TYPE AT INLET NO. 52.			
8-9-2007	TH	ADD 3 PHASE I SIDEWALK RECONSTRUCTION LOCATIONS			
2-20-2008	TH	ADD MANHOLE 48B			
06-05-2008	TH	SWFWD COMMENTS			

DESIGNED BY: RD/TH
 DRAWN BY: TH/PRD/GN
 CHECKED BY: E. NORTELLUS, P.E.
 IN CHARGE: R. GAVARRIETE, P.E.
 DATE: JULY 17, 2007

HIGHLANDS COUNTY
ENGINEERING DEPARTMENT
 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870

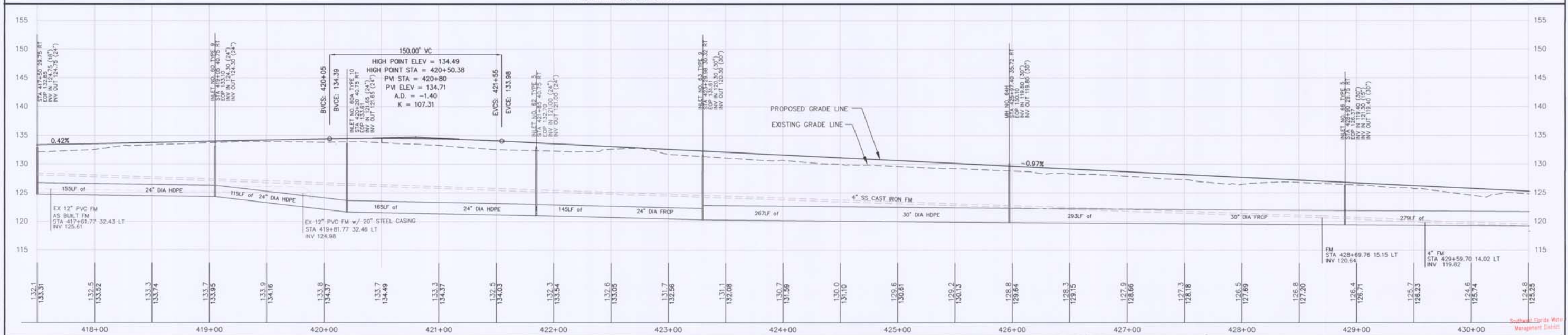
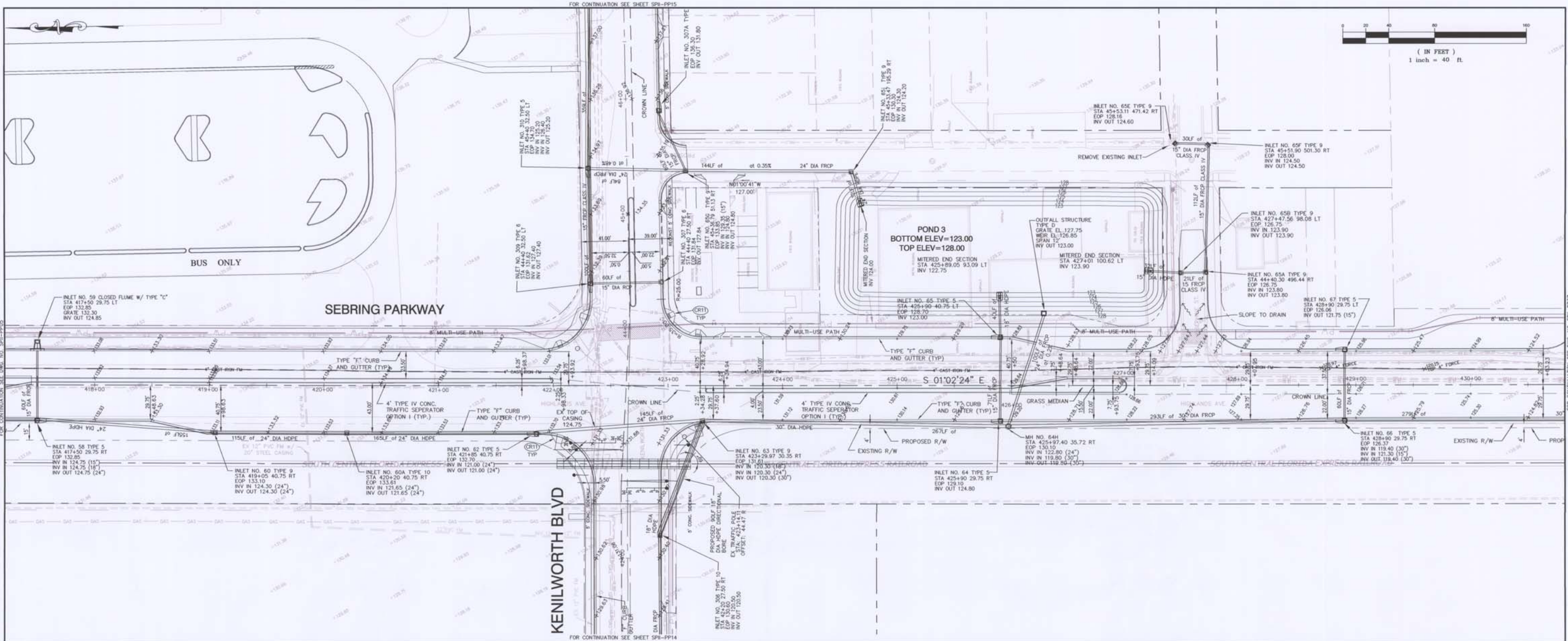
APPROVED BY: RAMON GAVARRIETE, P.E.
 FLORIDA REGISTRATION NO.: 51372

DATE: 6-5-07

SEBRING PARKWAY - PHASE II
 SEBRING PARKWAY
 PLAN AND PROFILE
 STA 403+50 TO STA 417+50

SCALE: HORIZ. 1"=40'
 VERT. 1"=8'
 DRAWING NO. SPII-PP05
 REV. 0

SHEET 21 OF 74



REVISIONS		REVISIONS	
DATE	BY	DATE	BY
03-11-2008	TH	05-02-2008	TH
04-8-2008	TH	06-04-2008	TH
04-24-2008	TH	06-05-2008	TH
04-24-2008	TH		
05-02-2008	TH		

DESIGNED BY: RD/TH
 DRAWN BY: TH/RD/DN
 CHECKED BY: E. NORTELUS, P.E.
 IN CHARGE: R. GAVARRETE, P.E.
 DATE: 03-11-2008

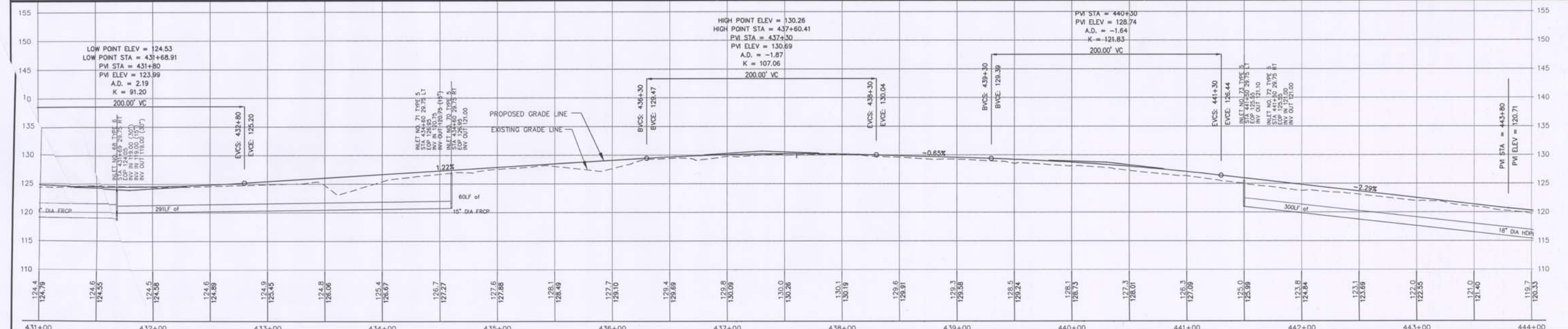
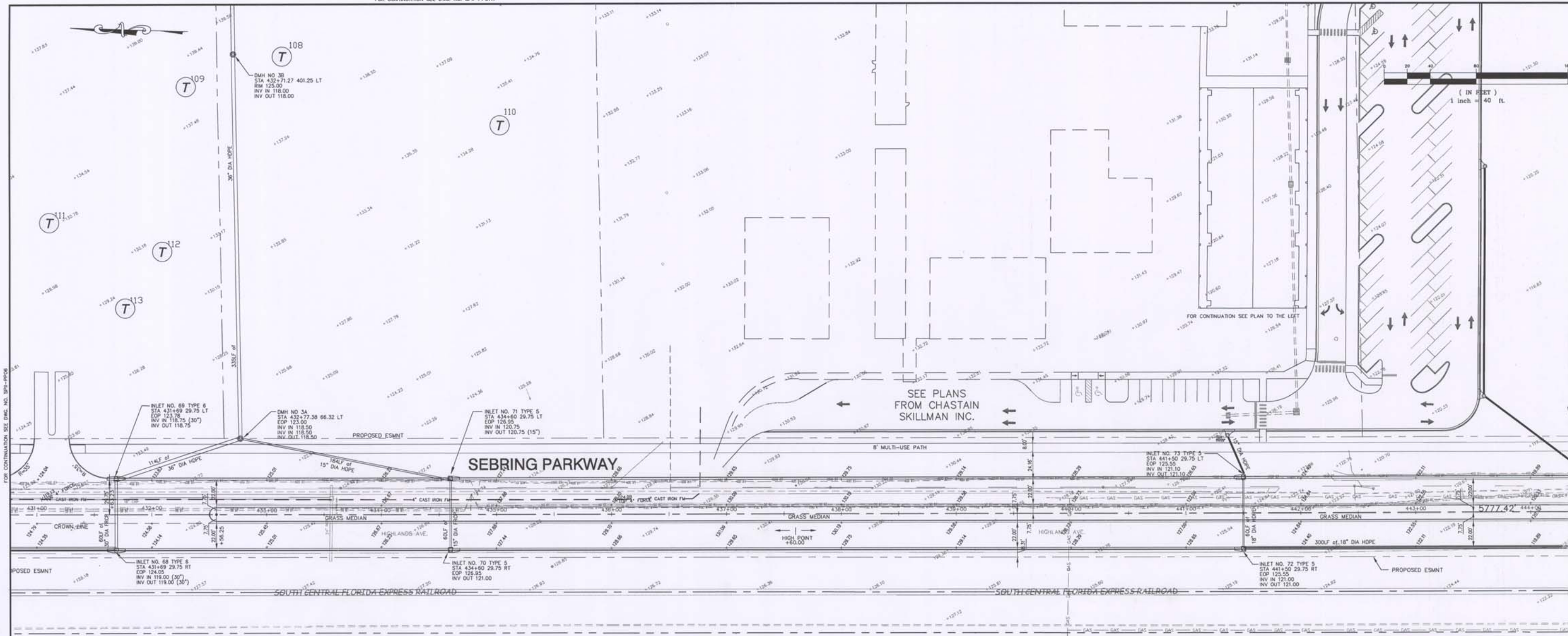
**HIGHLANDS COUNTY
 ENGINEERING DEPARTMENT**
 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870

APPROVED BY: RAMON GAVARRETE, P.E.
 FLORIDA REGISTRATION NO.: 51372

DATE: 6-5-08

SEBRING PARKWAY - PHASE II
 SEBRING PARKWAY
 PLAN AND PROFILE
 STA 417+50 TO STA 430+00

SCALE: JUN 09 2008
 HORIZ. 1"=40'
 VERT. 1"=4'
 DRAWING NO. SPII-PP06
 REV. 0
 SHEET 22 OF 74



REVISIONS		REVISIONS			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
03-11-2008	TH	CHANGE INLETS 68, 69, 70, 71, DMH 3A, 3B AND MODIFY POND 3A			
03-12-2008	TH	CHANGE PIPE RUN FROM 71 TO 3A			

DESIGNED BY: RD/TH
DRAWN BY: TH/RD/DN
CHECKED BY: E. NORTELU, P.E.
IN CHARGE: R. GAVARRETE, P.E.
DATE: 03-11-2008

HIGHLANDS COUNTY ENGINEERING DEPARTMENT
505 S. COMMERCE AVENUE
SEBRING, FLORIDA 33870

APPROVED BY: RAMON GAVARRETE, P.E.
FLORIDA REGISTRATION NO.: 51372

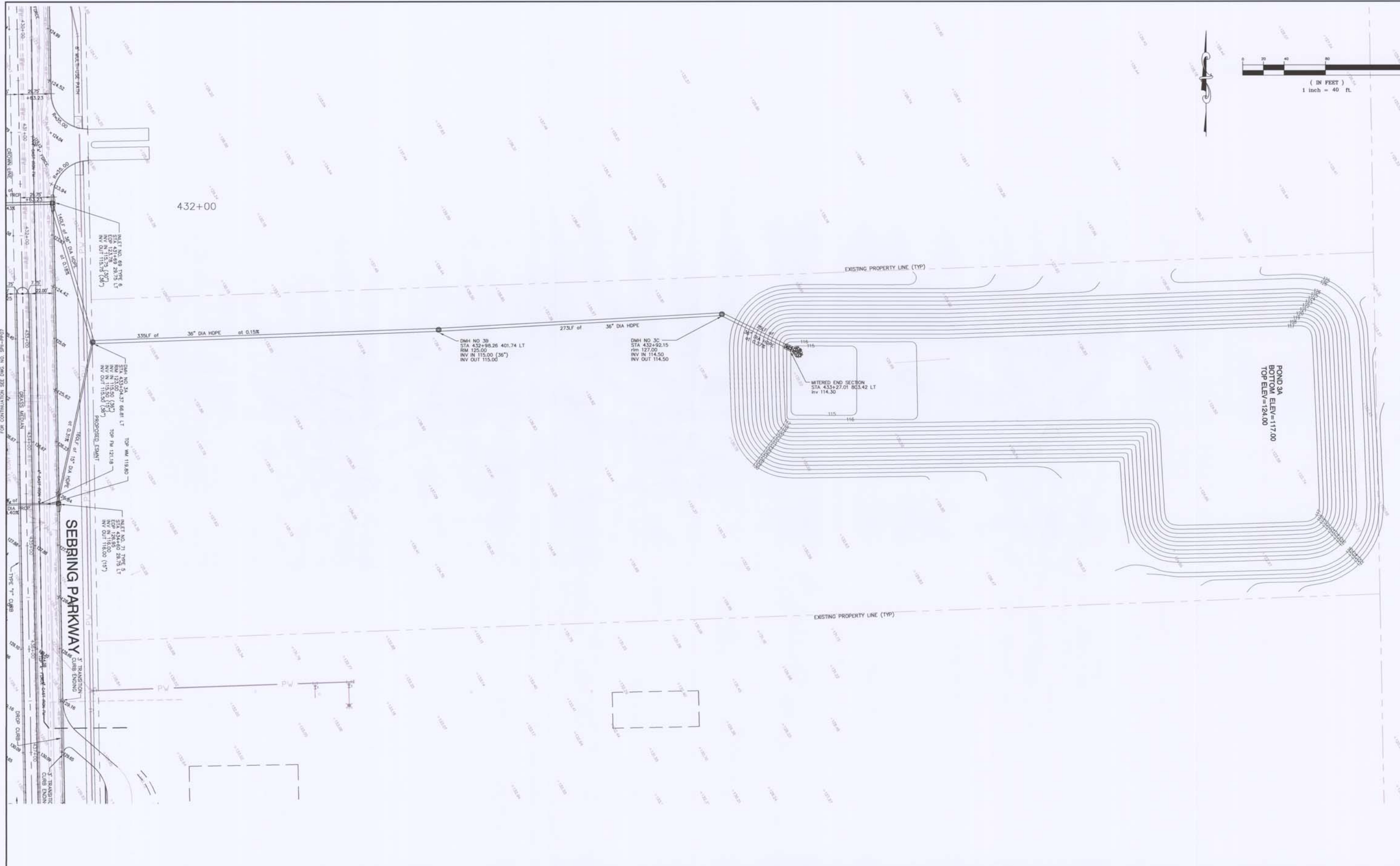
DATE: 4-2-2007

SCALE: HORIZ. 1"=40'
VERT. 1"=8'

DRAWING NO. SPII-PP07
REV. 0

APR 10 2007

SHEET 23 OF 74



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
03-11-2008	TH	NEW SHEET			
03-28-2008	TH	TURN OFF POINTS			
05-15-2008	TH	LOWER MANHOLES 3A, 3B AND 3C			
06-4-2008	TH	CHANGE POND SIZE AND MOVE MH 3C			
06-05-2008	TH	SFWMD COMMENTS			

DESIGNED BY: RD/TH
 DRAWN BY: TH/RD/DN
 CHECKED BY: E. NORTELUS, P.E.
 IN CHARGE: R. GAVARRETE, P.E.
 DATE: 03-11-2008

**HIGHLANDS COUNTY
 ENGINEERING DEPARTMENT**
 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870

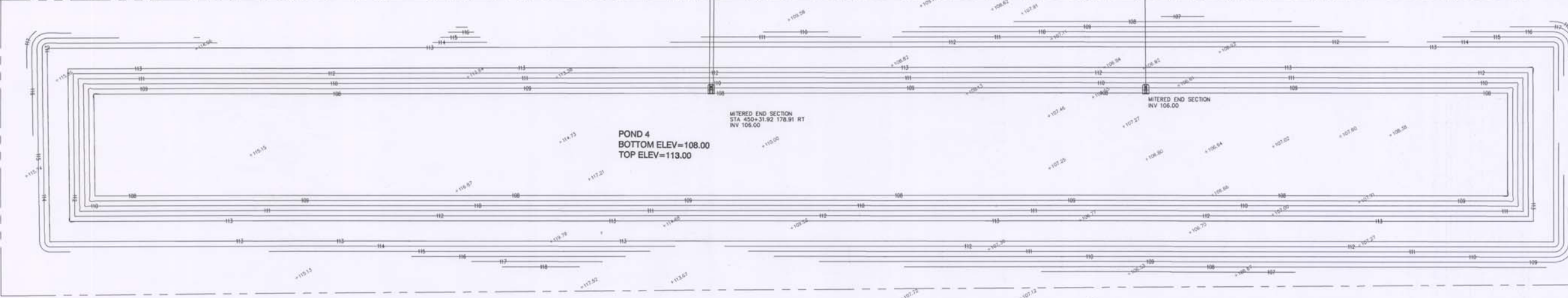
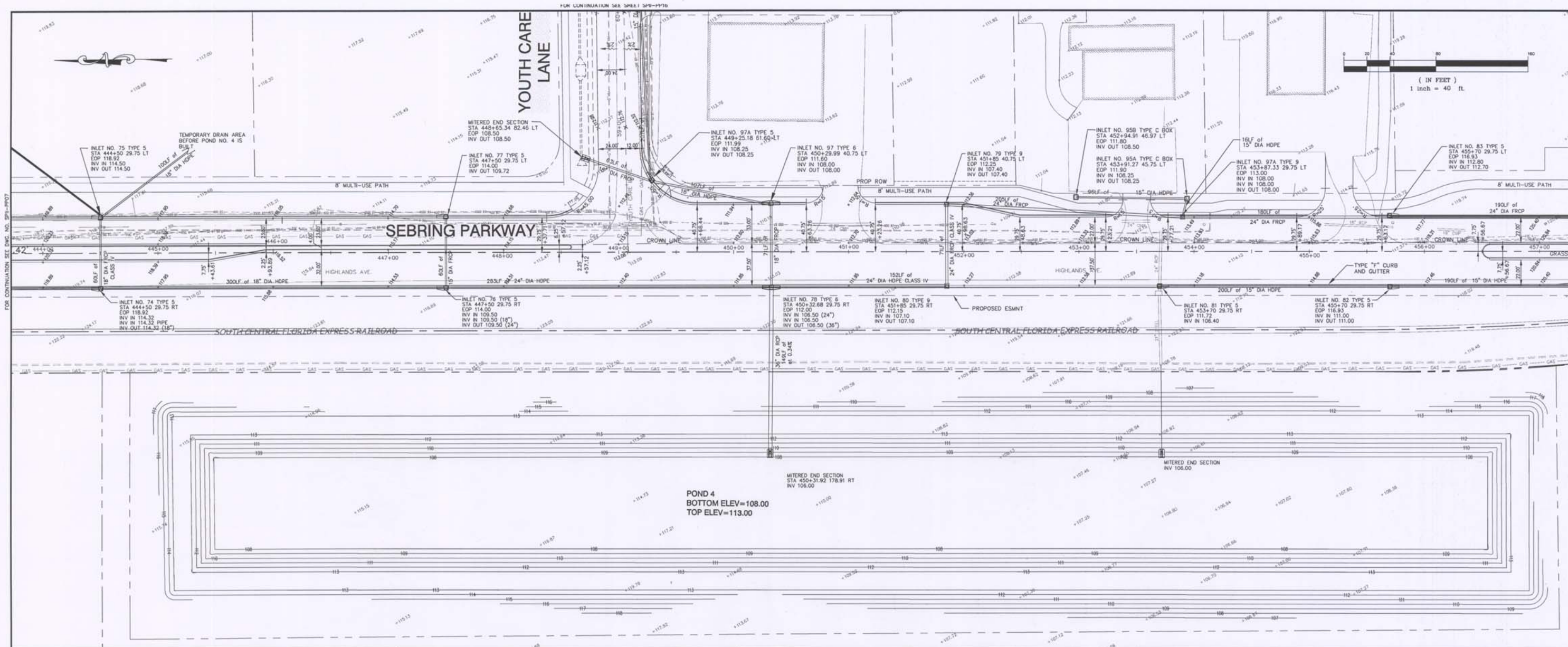
APPROVED BY: RAMON GAVARRETE, P.E.
 FLORIDA REGISTRATION NO.: 51372

DATE: 6-5-2008



SEBRING PARKWAY - PHASE II
 SEBRING PARKWAY
 PLAN
 POND 3A

SCALE: HORIZ. 1"=40'	REV. 0
VERT. 1"=8'	
DRAWING NO. SPI-PP07A	SHEET 24 OF 74



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
03-11-2008	TH	CHANGE INLETS 75, 76, 79, 80, 95, 95A, 95B, 97 AND 97A. REMOVE MES AT STA 452+00 AND INLET 96			

DESIGNED BY: RD/TH
 DRAWN BY: TH/RD/DN
 CHECKED BY: E. NORTELUS, P.E.
 IN CHARGE: R. GAVARRETE, P.E.
 DATE: 4/2/08

**HIGHLANDS COUNTY
 ENGINEERING DEPARTMENT**
 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870

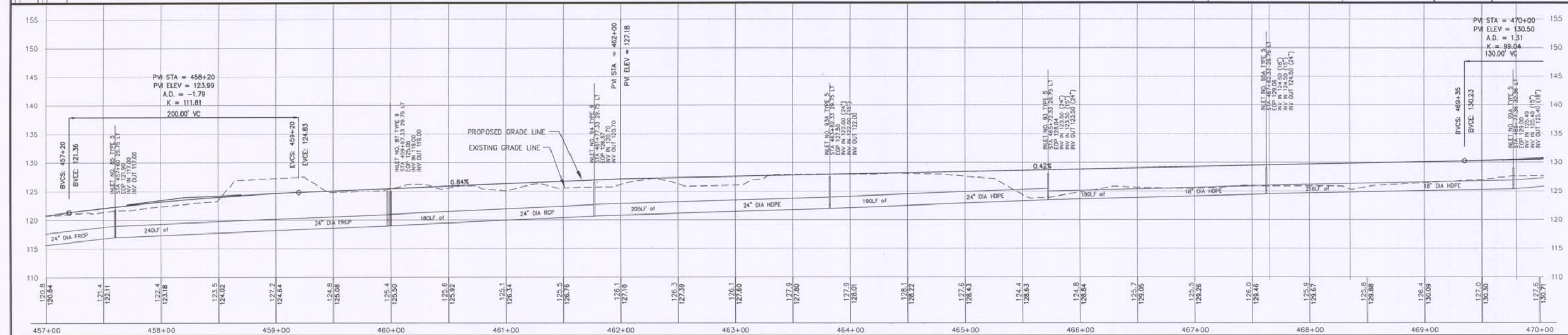
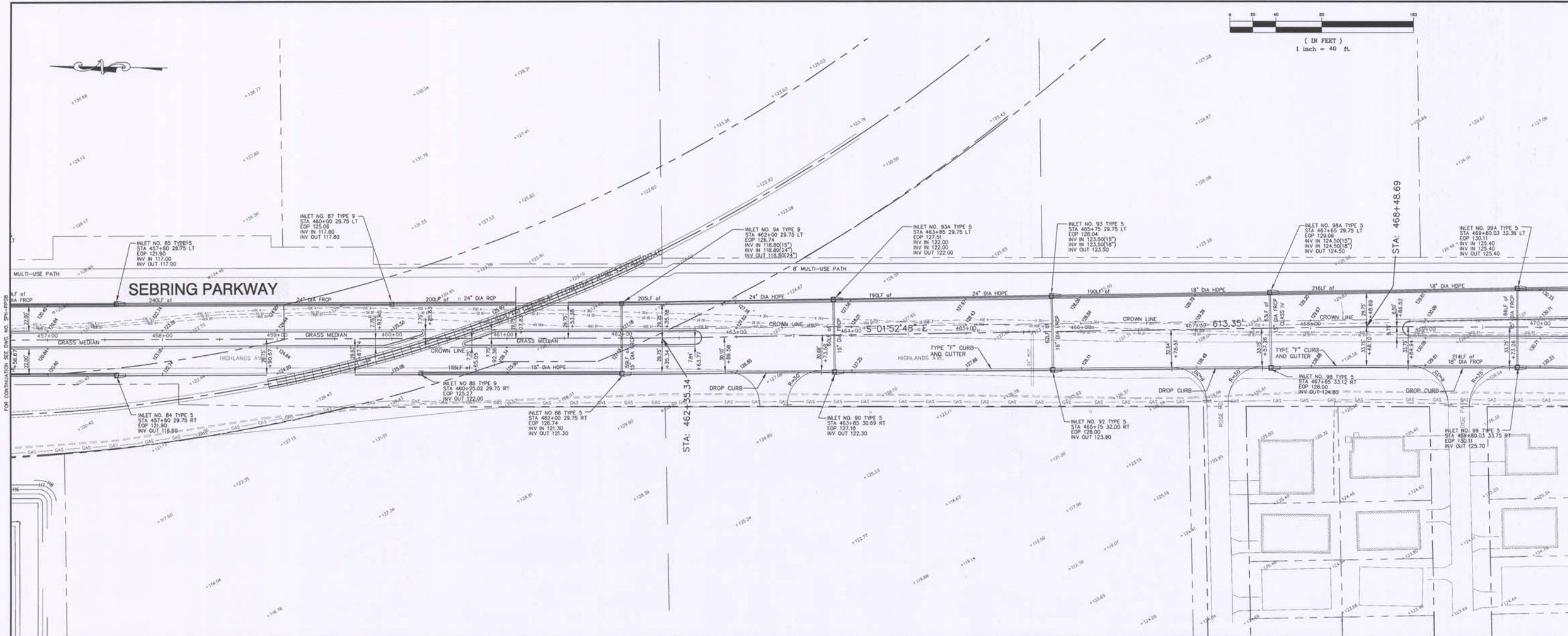
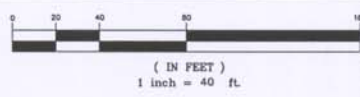
APPROVED BY: RAMON GAVARRETE, P.E.
 FLORIDA REGISTRATION NO.: 51372

SCALE:
 HORIZ. 1"=40'
 VERT. 1"=8'

SEBRING PARKWAY - PHASE II
 SEBRING PARKWAY
 PLAN AND PROFILE
 STA 444+00 TO STA 457+00

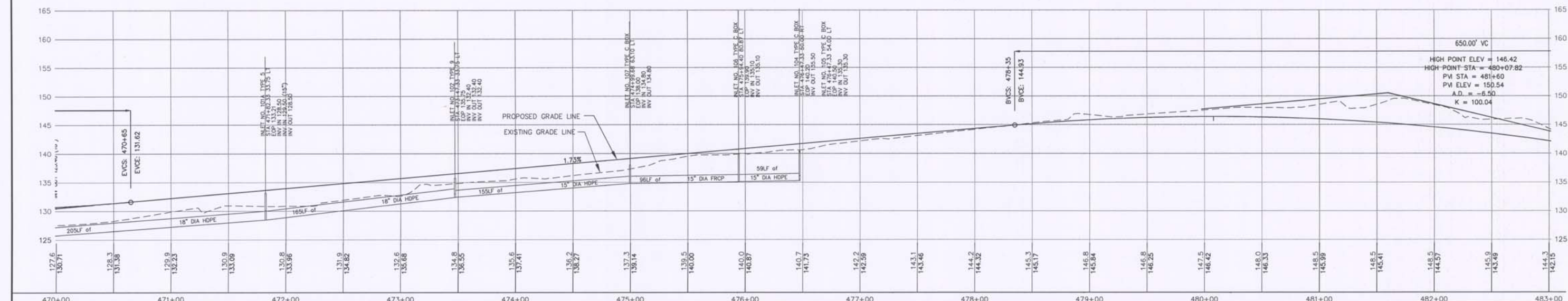
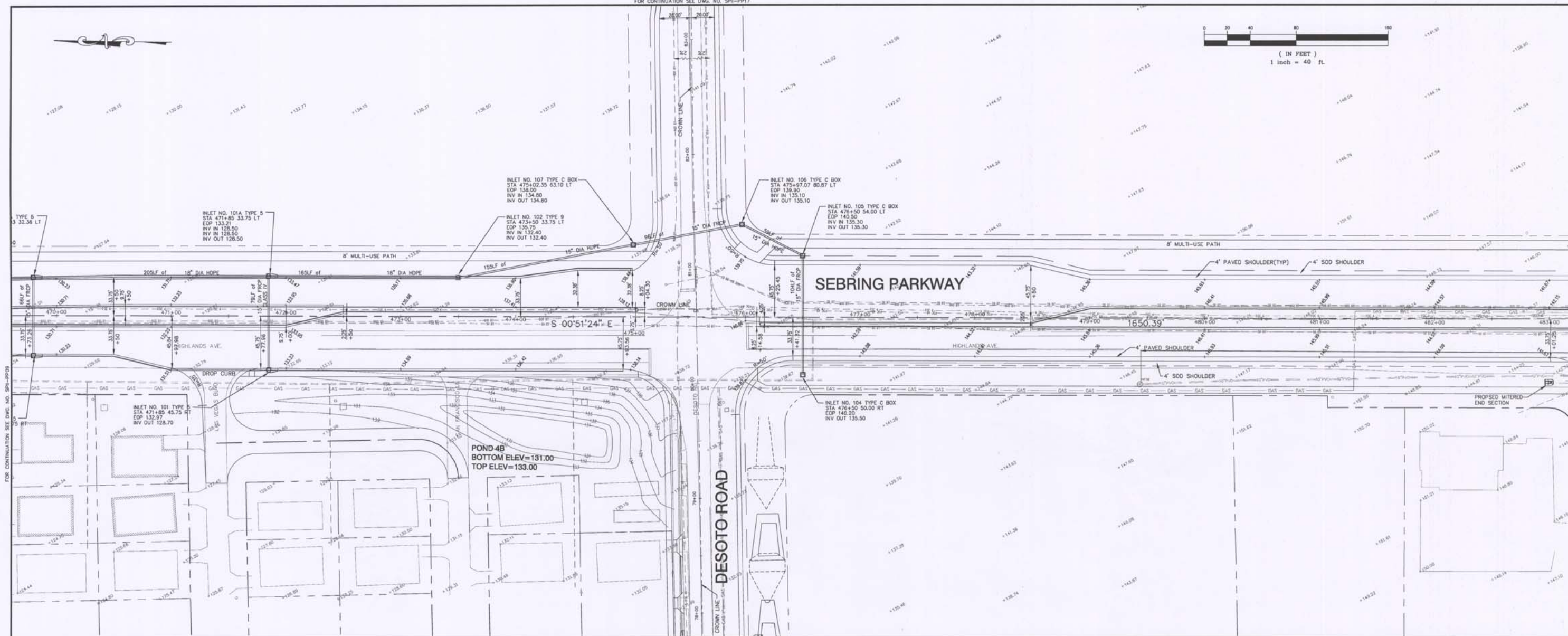
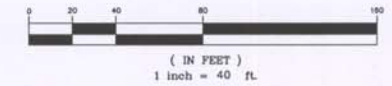
APR 10 2008
 RECEIVED
 4/10/08

DRAWING NO. SPII-PP08
 SHEET 25 OF 74



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
03-11-2008	TH	CHANGED PROFILE AND SPOT ELEVATIONS FROM STA 462+00 TO 470+00. CHANGE INLETS 85, 87, 88, 90, 92, 93, 93A, 94, 95, 98A, 99 AND 99A.			

DESIGNED BY: RD/TH	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870	SCALE: HORIZ. 1"=40' VERT. 1"=8'
DRAWN BY: TH/RD/DN		DRAWING NO. SP11-PP09
CHECKED BY: E. NORTELLUS, P.E.		REV. 0
IN CHARGE: R. GAVARRETE, P.E.		DATE: 4-4-2008
DATE: 03-11-2008		APPROVED BY: RAMON GAVARRETE, P.E. FLORIDA REGISTRATION NO.: 51372



REVISIONS	
DATE	DESCRIPTION
03-11-2008	TH MODIFY POND 4B. REMOVE MES AT STA 471+85 AND INLET 103. CHANGE INLETS 101, 101A, 102, 104, 105, 106 AND 107

DESIGNED BY: RD/TH
 DRAWN BY: TH/RD/DN
 CHECKED BY: E. NORTELLUS, P.E.
 IN CHARGE: R. CAVARRETE, P.E.
 DATE: 03-11-2008

HIGHLANDS COUNTY ENGINEERING DEPARTMENT
 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870

APPROVED BY: RAMON CAVARRETE, P.E.
 FLORIDA REGISTRATION NO.: 51372

DATE: 4-4-2008



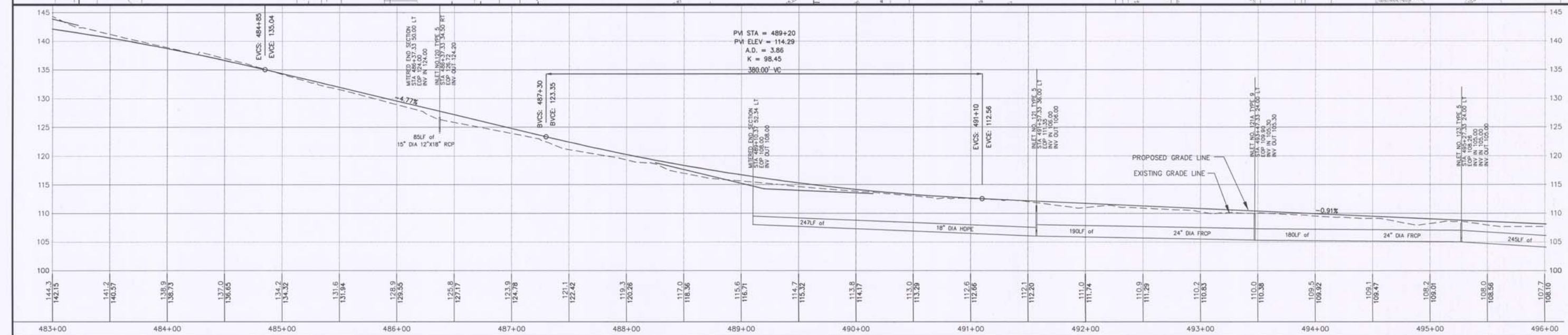
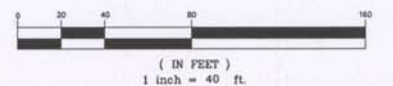
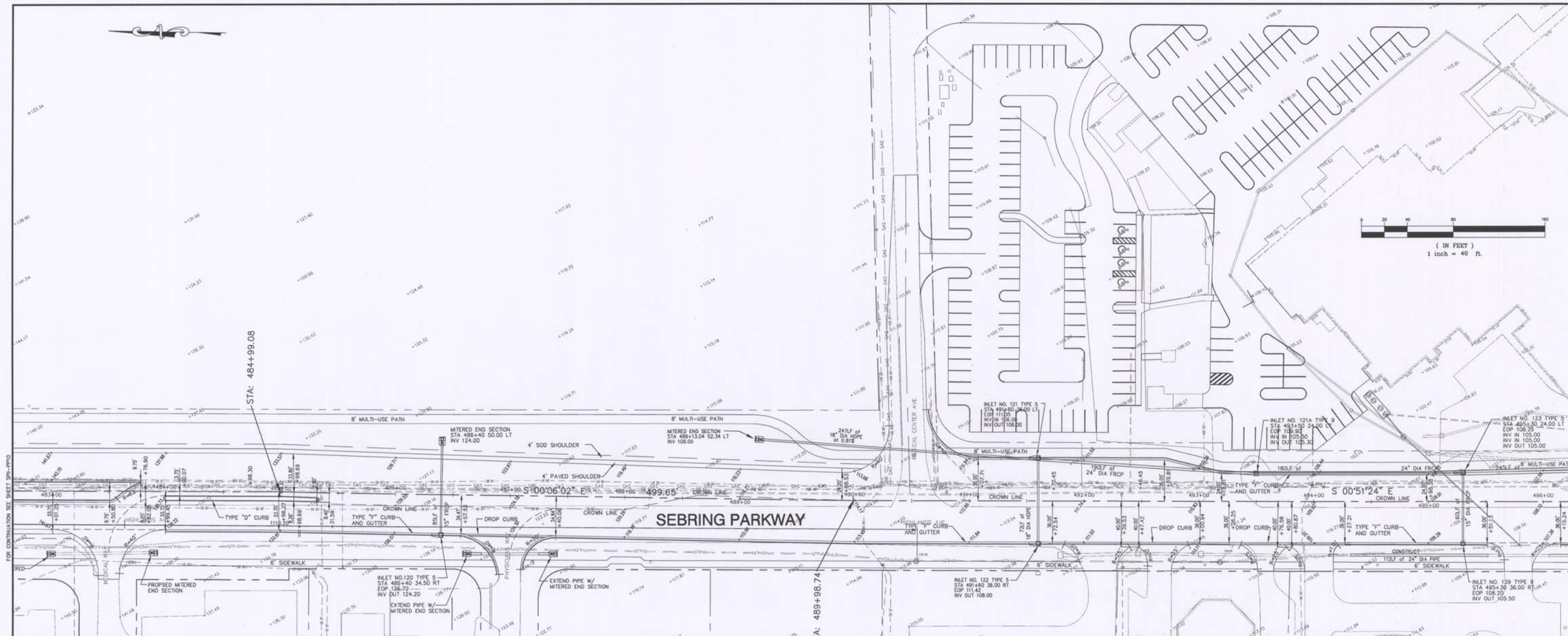
SEBRING PARKWAY - PHASE II
 SEBRING PARKWAY
 PLAN AND PROFILE
 STA 470+00 TO STA 483+00

SCALE:
 HORIZ. 1"=40'
 VERT. 1"=8'

DRAWING NO. SPII-PP10
 REV. 0

APR 10 2008

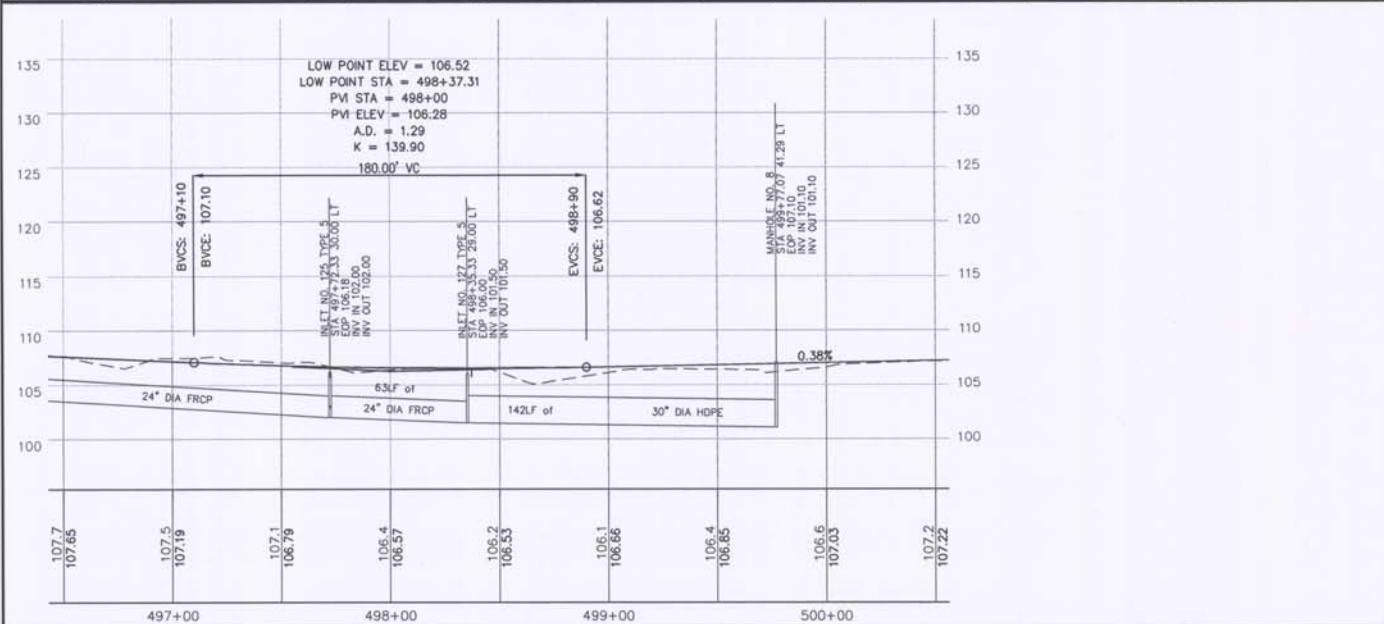
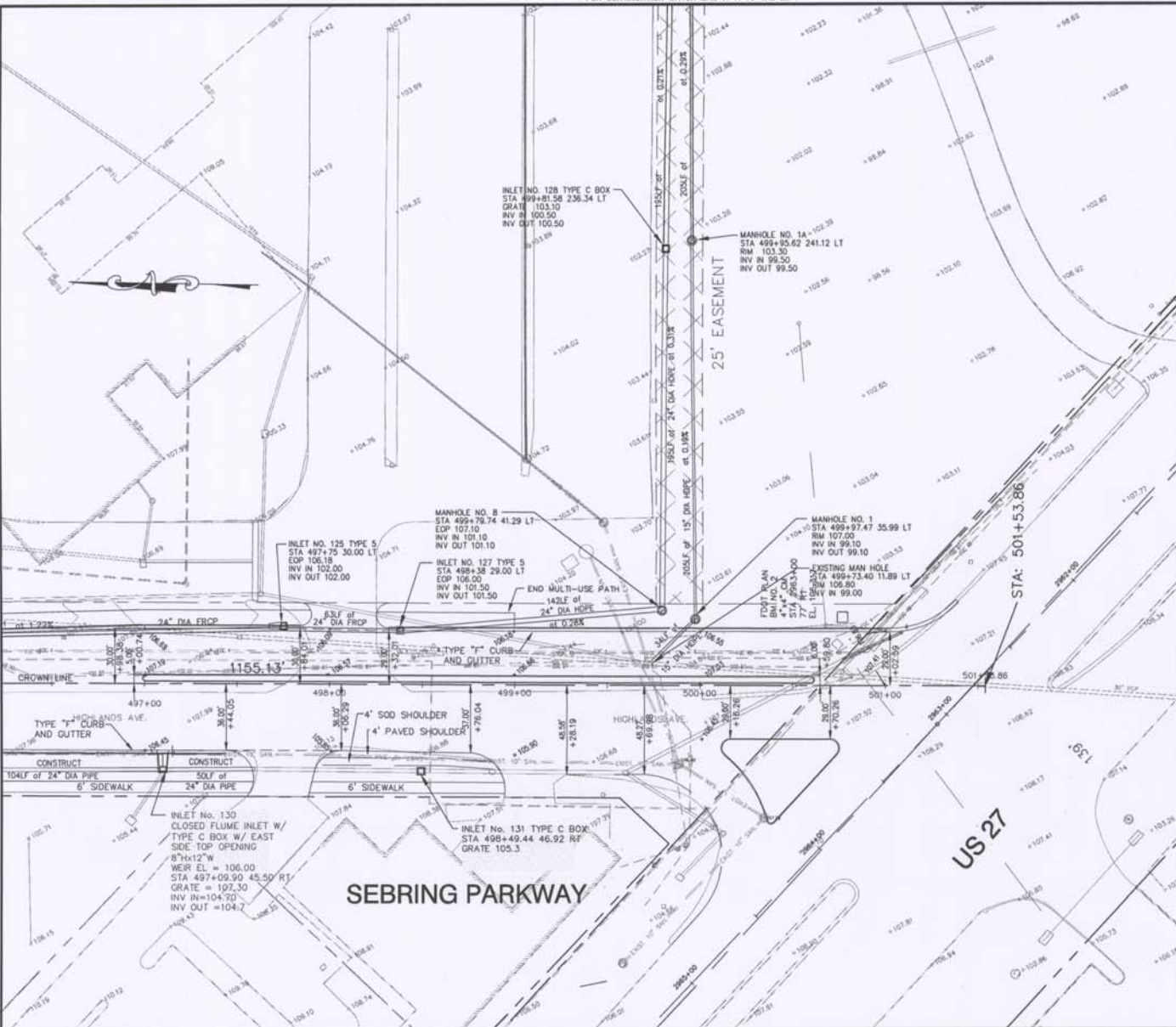
SHEET 27 OF 74



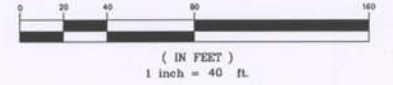
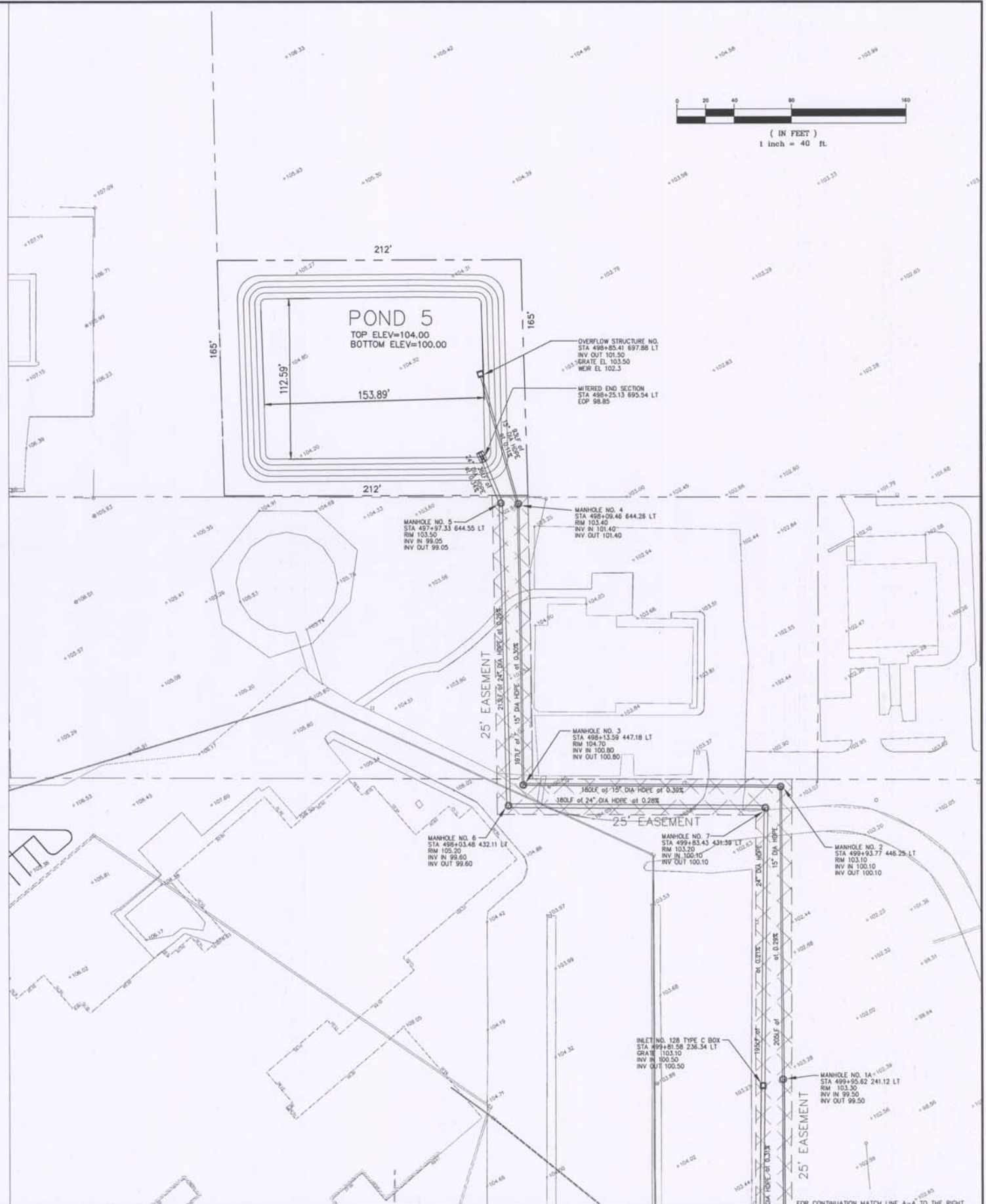
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
03-11-2008	TH	REMOVE PARKING LOT ENTRANCE			

DESIGNED BY: RD/TH	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		SCALE: HORIZ. 1"=40' VERT. 1"=8'
DRAWN BY: TH/RD/DN			DRAWING NO. SPH-PP11
CHECKED BY: E. NORTELLUS, P.E.			REV. 0
IN CHARGE: R. GAVARRETE, P.E.			DATE: 4-4-2008
DATE: 03-11-2008			APPROVED BY: RAMON GAVARRETE, P.E. FLORIDA REGISTRATION NO.: 51372

FOR CONTINUATION MATCH LINE A-A TO THE LEFT



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
03-11-2008	TH	CHANGE INLETS 130 AND 131. CHANGE PIPE SIZE FROM INLET 127 TO MANHOLE 5.			



DESIGNED BY: RD/TH
DRAWN BY: TH/RD/DN
CHECKED BY: E. NORTELUS, P.E.
IN CHARGE: R. GAVARRETE, P.E.
DATE: 03-11-2008

**HIGHLANDS COUNTY
ENGINEERING DEPARTMENT**
505 S. COMMERCE AVENUE
SEBRING, FLORIDA 33870

APPROVED BY: RAMON GAVARRETE, P.E.
FLORIDA REGISTRATION NO.: 51372

DATE: 4-4-2008

SCALE:
HORIZ. 1"=40'
VERT. 1"=8'

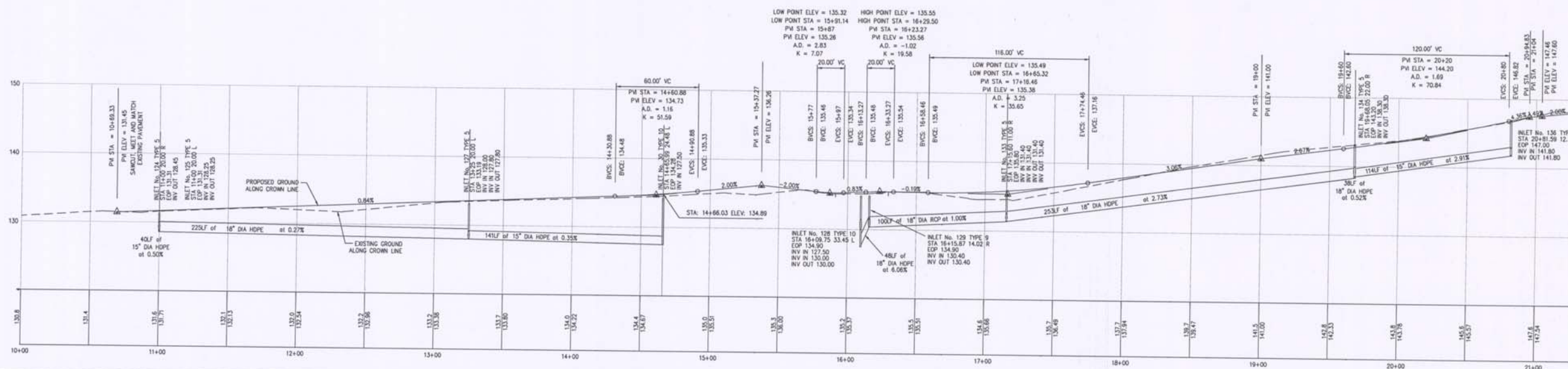
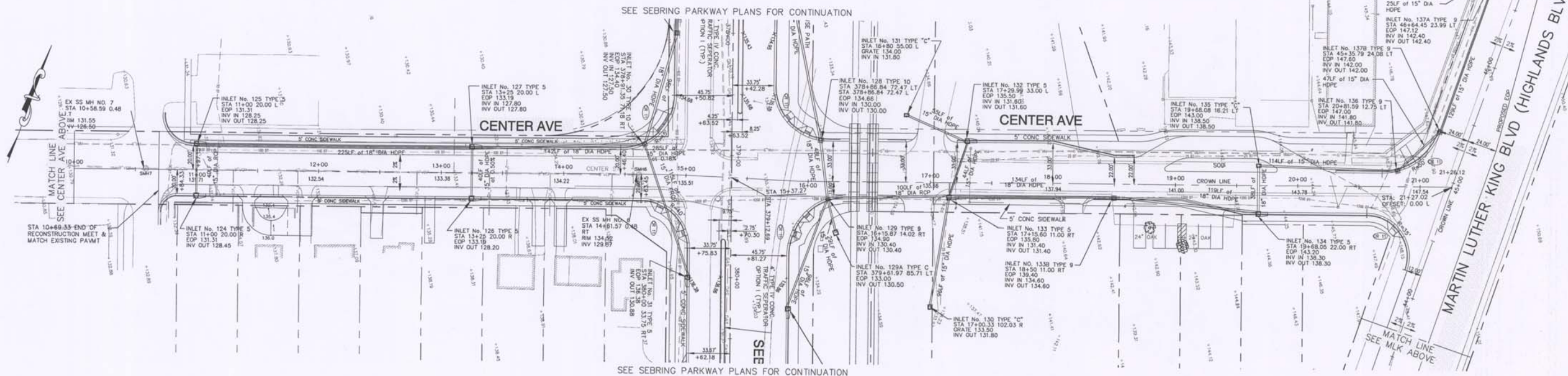
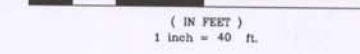
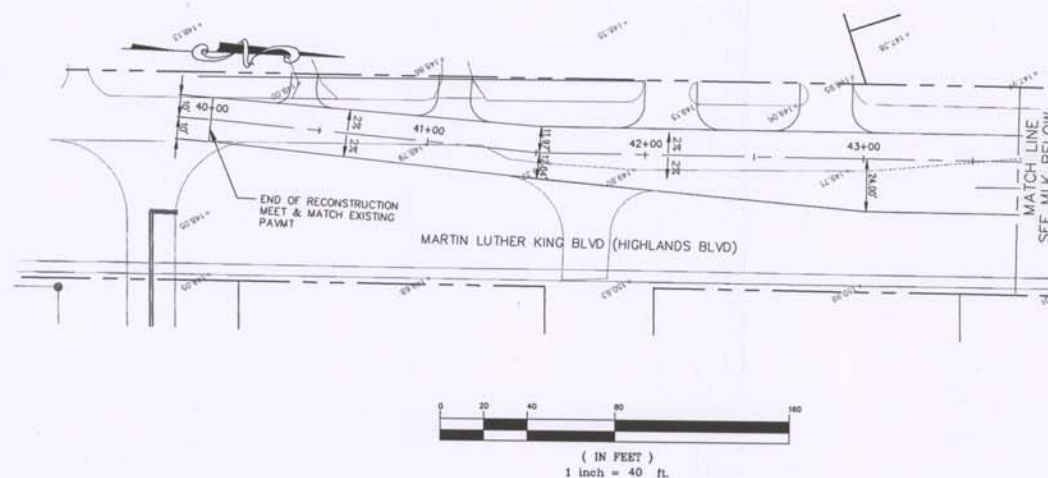
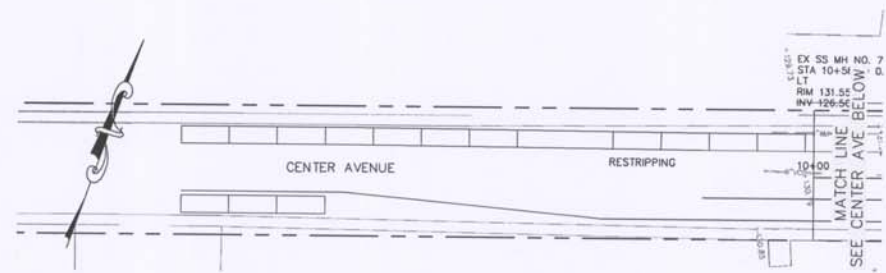
DRAWING NO. SPII-PP12
REV. 0

APR 10 2008
RECEIVED: RPD/TH/TH

SHEET 29 OF 74

C:\projects\2008\Sebring Parkway - Phase II\SP11-PP12.dwg

EXISTING SANITARY SEWER MANHOLES				
MANHOLE #	RIM TOP (EXISTING)	RIM TOP (PROPOSED)	INVERT IN	INVERT OUT
SMH6	134.52		129.87	129.87
SMH7	131.55	131.55	126.50	126.18



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
11-14-2007	TH	ADD INLETS 137A AND 137B ON MLK BLVD.			
12-18-2007	TH	CHANGE INVERT ELEVATIONS ON INLETS 124, 125, 127, AND 30			

DESIGNED BY: RD/TH
 DRAWN BY: TH/RD/DN
 CHECKED BY: E. NORTELUS, P.E.
 IN CHARGE: R. GAVARRETE, P.E.
 DATE: 03-11-2008

HIGHLANDS COUNTY ENGINEERING DEPARTMENT
 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870

APPROVED BY: RAMON GAVARRETE, P.E.
 FLORIDA REGISTRATION NO.: 51372

DATE: 4-4-2008



SEBRING PARKWAY - PHASE II
 CENTER AVENUE
 PLAN AND PROFILE
 STA 10+00 TO STA 21+33

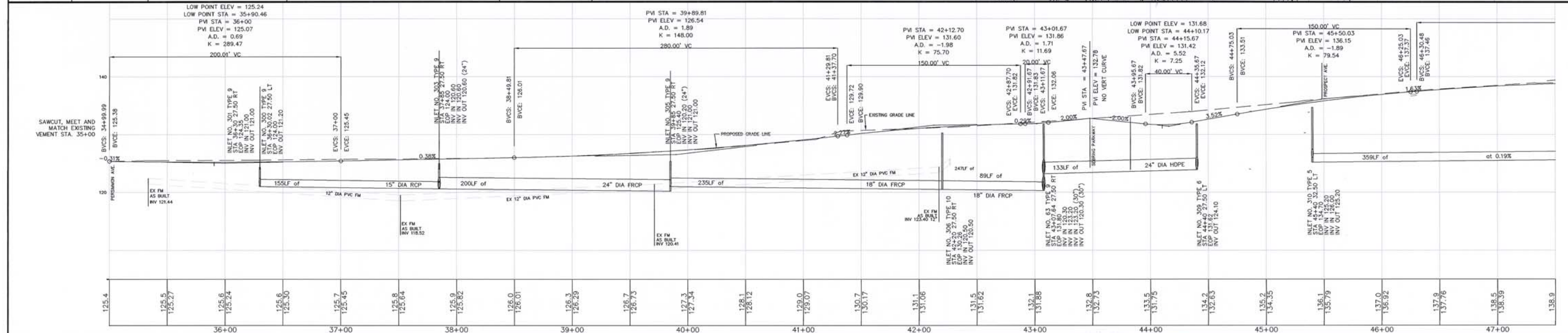
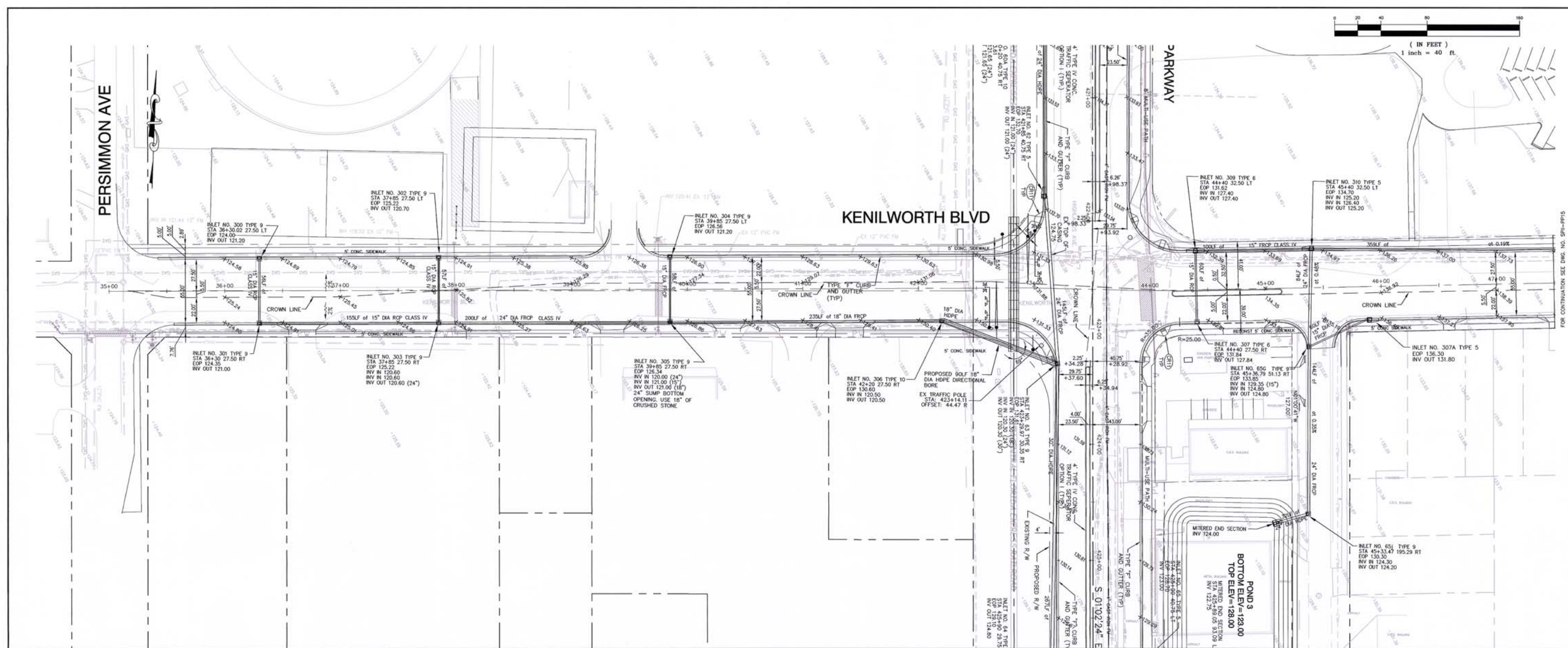
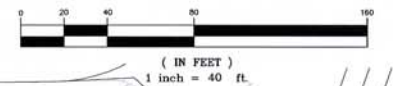
SCALE:
 HORIZ. 1"=40'
 VERT. 1"=8'

DRAWING NO. SPII-PP13
 REV. 0

APR 10 2008

SHEET 30 OF 74

S:\Projects\175\Sebring\Revised\Drawings\2008\031108\031108.dwg



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
03-11-2008	TH	CHANGE INLETS 301, 302, 303, 304, 305 AND 306			
03-27-2008	TH	CHANGE BASELINE FROM CROWN LINE TO CENTER LINE.			
06-04-2008	TH	CHANGE CHANGE INLETS 63, 307, 64H, 309, 310, 65G, AND 65J. ADD OUTFALL STRUCTURE.			
06-05-2008	TH	SHFMD COMMENTS			

DESIGNED BY: RD/TH
 DRAWN BY: TH/RB/DN
 CHECKED BY: E. NORTELUS, P.E.
 IN CHARGE: R. GAVARRETE, P.E.
 DATE: 03-11-2008

HIGHLANDS COUNTY ENGINEERING DEPARTMENT
 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870

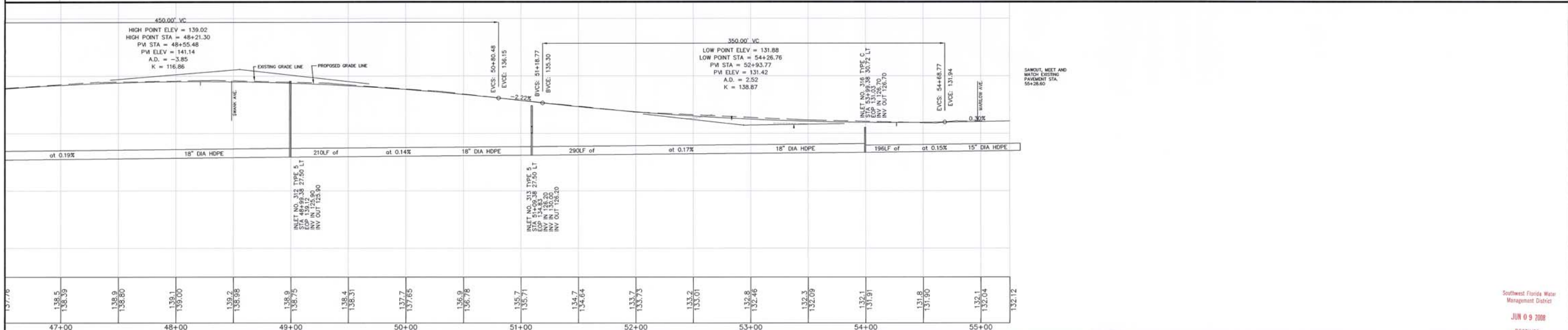
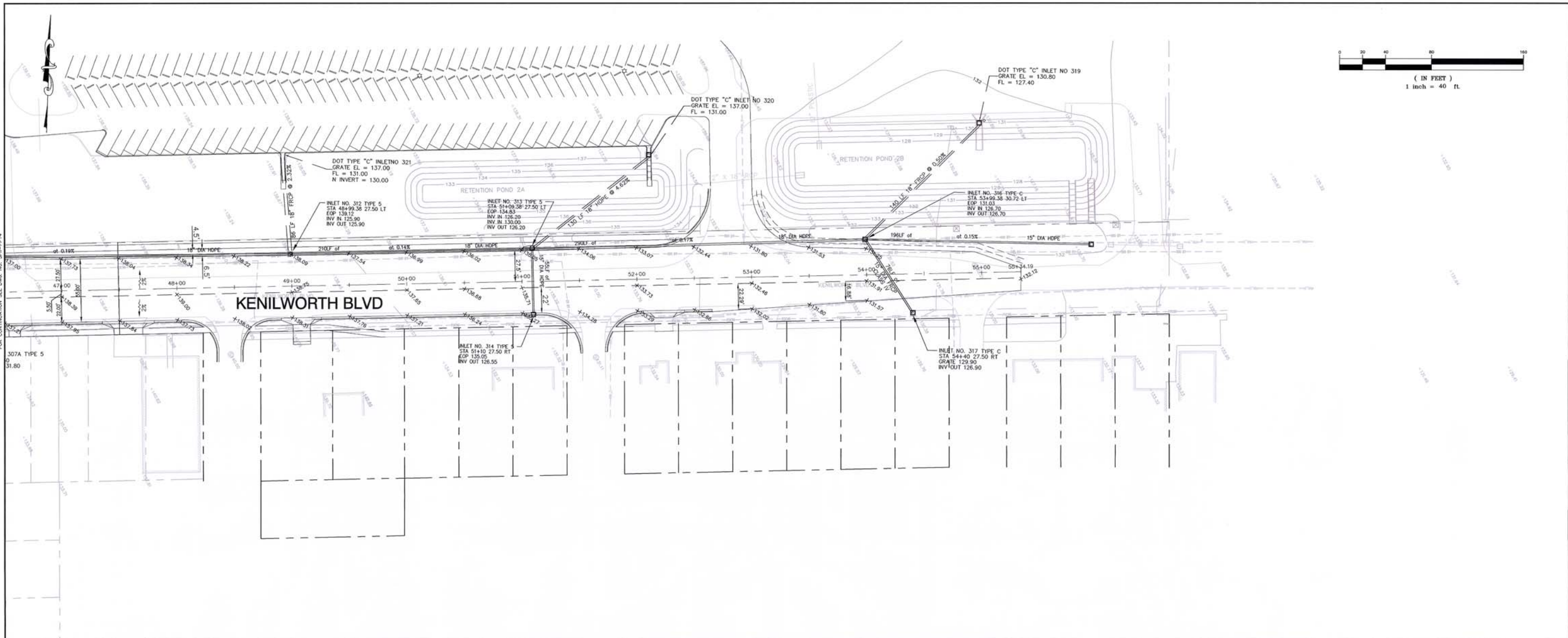
APPROVED BY: RAMON GAVARRETE, P.E.
 FLORIDA REGISTRATION NO.: 51372

DATE: 6-5-2008

SEBRING PARKWAY - PHASE II
 KENILWORTH BLVD
 PLAN AND PROFILE
 STA 35+00 TO STA 47+00

SCALE: HORIZ. 1"=40'
 VERT. 1"=8'

DRAWING NO. SP14
 SHEET 31 OF 74



DATE	BY	DESCRIPTION
03-11-2008	TH	CHANGE INLETS 312, 313, 316 AND 317. ADD INLETS 319, 320 AND 321.
03-27-2008	TH	CHANGE BASELINE FROM CROWN LINE TO CENTER LINE.
06-05-2008	TH	SMWMD COMMENTS

DATE	BY	DESCRIPTION

DESIGNED BY: RD/TH
 DRAWN BY: TH/RD/DN
 CHECKED BY: E. NORTELUS, P.E.
 IN CHARGE: R. GAVARRETE, P.E.
 DATE: 03-11-2008

**HIGHLANDS COUNTY
 ENGINEERING DEPARTMENT**
 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870

APPROVED BY: RAMON GAVARRETE, P.E.
 FLORIDA REGISTRATION NO.: 51372

DATE: 6-5-2009

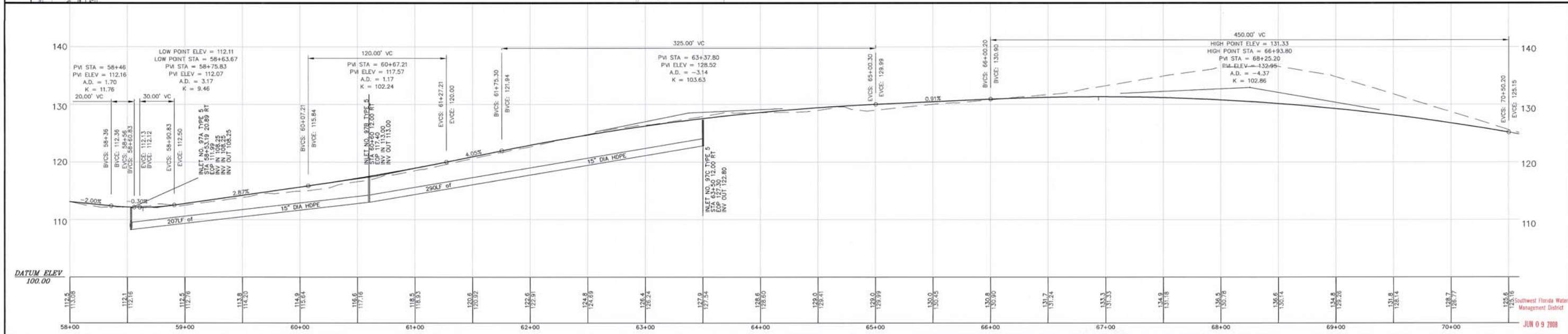
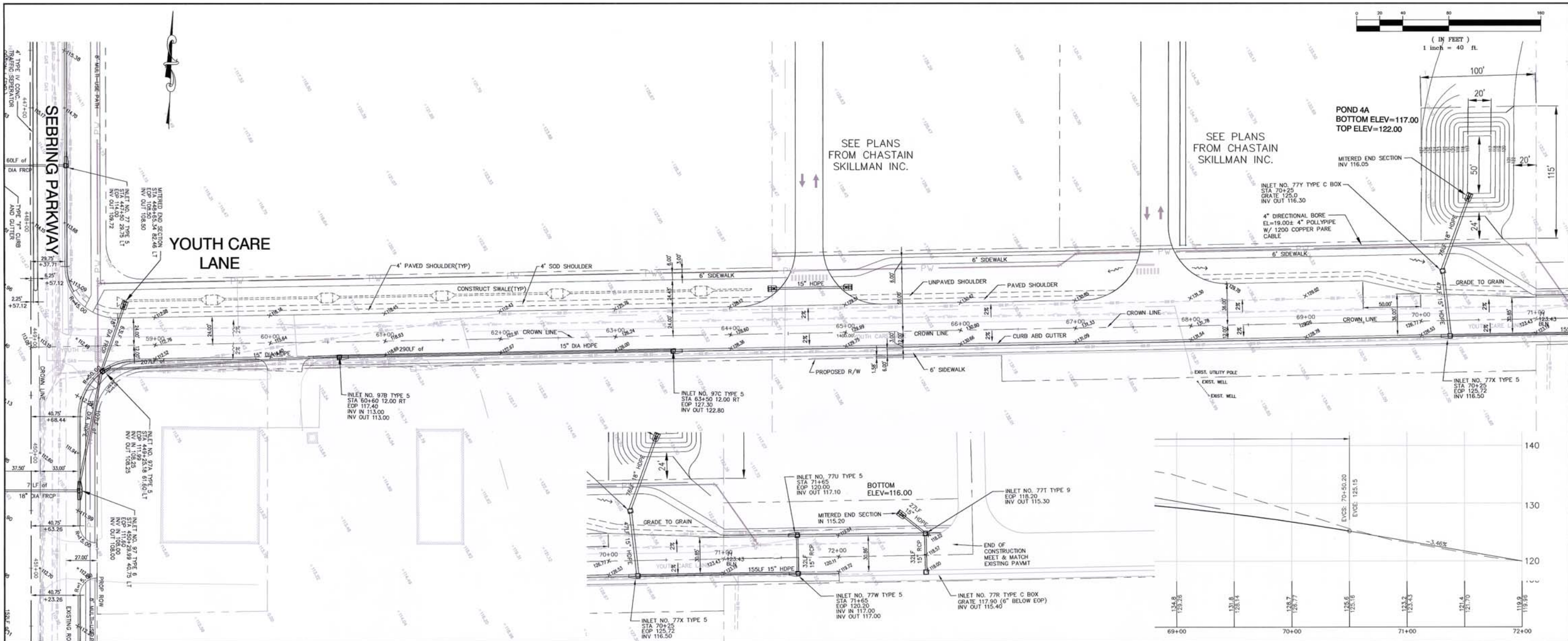


Southwest Florida Water Management District
 JUN 09 2008

RECEIVED

SEBRING PARKWAY - PHASE II
 KENILWORTH BLVD
 PLAN AND PROFILE
 STA 47+00 TO STA 55+28.60

SCALE: HORIZ. 1"=40'	REV. 0
VERT. 1"=8'	
DRAWING NO. SPII-PP15	SHEET 32 OF 74



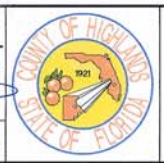
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
03-11-2008	TH	ADD INLETS 97B AND 97C			
06-05-2008	TH	5WFMD COMMENTS			

DESIGNED BY: RD/TH
 DRAWN BY: TH/RD/DN
 CHECKED BY: E. NORTHEUS, P.E.
 IN CHARGE: R. GAVARRETE, P.E.
 DATE: 03-11-2008

**HIGHLANDS COUNTY
 ENGINEERING DEPARTMENT**
 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870

APPROVED BY: RAMON GAVARRETE, P.E.
 FLORIDA REGISTRATION NO.: 51372

DATE: 6-5-2008

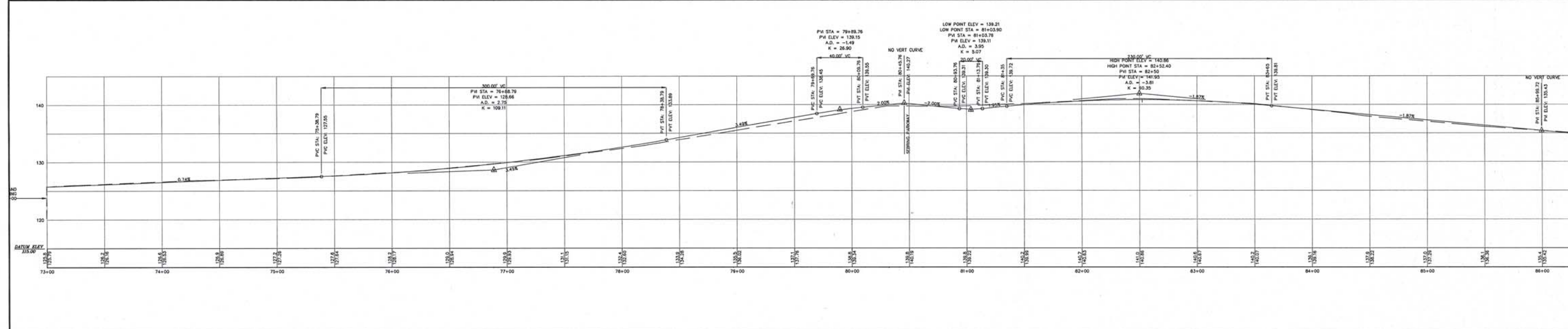
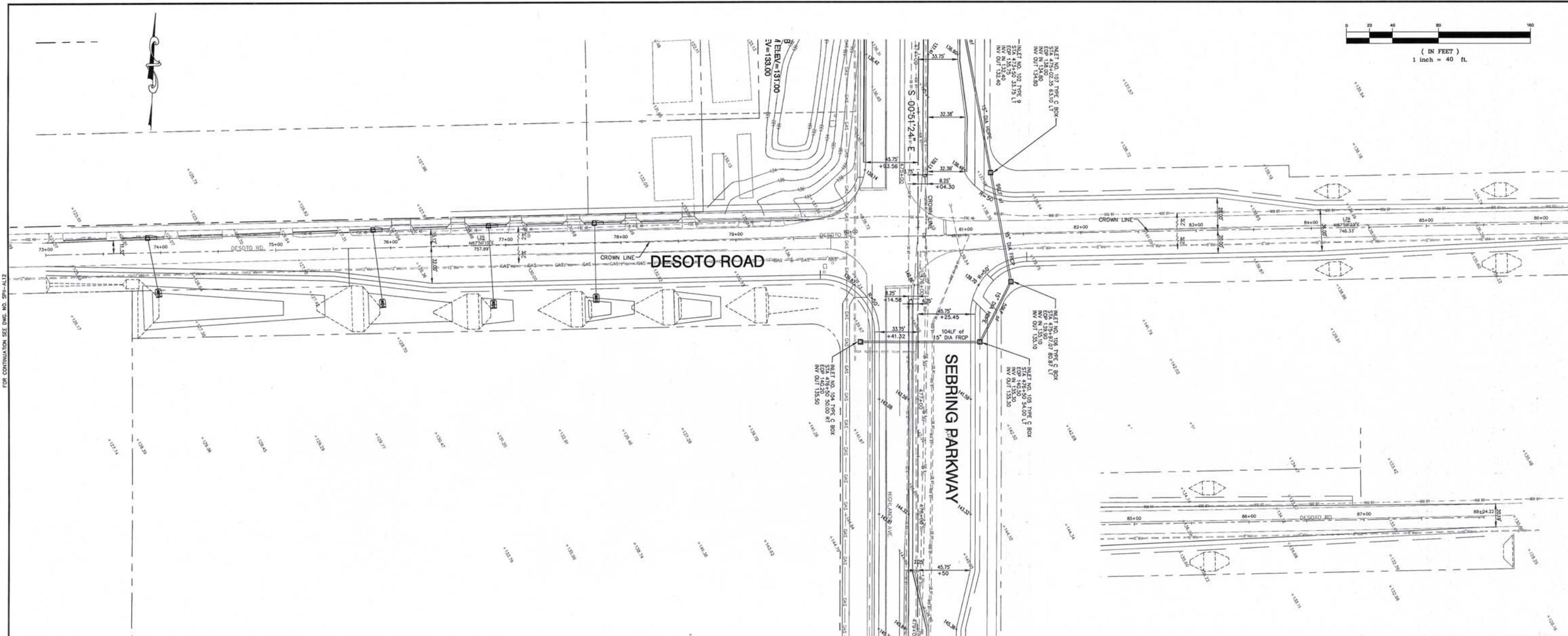
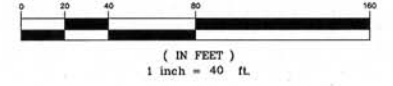


SEBRING PARKWAY - PHASE II
 YOUTH CARE LANE
 PLAN AND PROFILE
 STA 58+00 TO STA 72+00

SCALE: HORIZ. 1"=40'
 VERT. 1"=8'

DRAWING NO. SPII-PP16 REV. 0
 SHEET 33 OF 74

JUN 09 2008



REVISIONS				DESIGNED BY:			HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33879		SEBRING PARKWAY - PHASE II DESOTO ROAD PLAN AND PROFILE STA 73+00 TO STA 88+04		SCALE:	
DATE	BY	DESCRIPTION	DATE	BY	HORIZ.						VERT.	
											1"=40'	1"=8'
DRAWING NO. SPII-PP17 SHEET 34 OF 74						APR 10 2008 RECEIVED H&S SECTION	REV. 0					

ATTACHMENT B



Ardaman & Associates, Inc.

Geotechnical, Environmental and
Materials Consultants

January 20, 2005
File Number 04-51-9326

Mr. Roderick N. Darley
Highland County Board of County Commissioners
505 South Commerce Avenue
Sebring, FL 33870-3869

Subject: Field In-Place Density Test Results, Field & Laboratory Testing for Sebring Parkway,
Phase II, Sebring, Highlands County, Florida

REPORT NUMBER 1

Dear Mr. Darley:


As requested by you, Ardaman & Associates, Inc., visited the subject site to conduct field in-place thickness of asphaltic concrete and thickness and density tests (ASTM D 2922 – Tests 1 – 78 and ASTM D 2937 Tests 79 - 156) on the and base and subgrade soils. Pages 1 through 7 presents the test locations and results.

The test locations were established by tape measurement from station and roadway locations as located by others. The degree of accuracy of test locations is that implied by the method of layout. The in-place thickness and density test results are representative of the asphaltic concrete, base and subgrade soils at each respective test location and vertical reach at the time the tests were conducted.

It has been a pleasure assisting you with this important phase of your project. If there are any questions or when we may be of further service, please contact us.

Sincerely,
ARDAMAN & ASSOCIATES, INC.

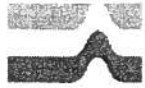

Rick Barlow
Project Manager


Thomas J. Leto, P.E.
Principal
Florida License No. 12458

TJL/RB:cwv
Enclosures
Client Copy: 2

\\ARDAMAN_BARTOW\BARTOW JOBS\2004 JOBS\04-9326 HIGHLANDS COUNTY BOARD OF CC- SEBRING PARKWAY\04-9326 DTR RPT #1.DOC





FIELD IN-PLACE DENSITY TEST RESULTS

ARDAMAN & ASSOCIATES, INC.

PROJECT: Sebring Parkway Phase II **FILE NO.** 04-9326 **DATE** 01/20/05
CLIENT: Highlands County Board of County Commissioners **REPORT** 1 **PAGE** 1 of 7

TEST NO.	LOCATION	TEST DATE	DRY DENSITY (PCF)	MOISTURE (%)	DEPTH THICKNESS (INCHES)	DEPTH OF TEST (INCHES)
1 79	Station 478+00 9' Right of Centerline @ Highlands Avenue	12/27	B 119.7	B 4.5	A/C 4	B -6
			SG 118.8	SG 6.8	LR 6	SG -8
					SSG 12	
2 80	Station 481+25 4.5' Right of Centerline @ Highlands Avenue	12/27	B 119.5	B 4.4	A/C 2 1/2	B -6
			SG 112.0	SG 3.5	LR 7	SG -8
					SSG 12	
3 81	Station 491+00 9' right of Centerline @ Highlands Avenue	12/27	B 129.3	B 5.5	A/C 4 1/2	B -6
			SG 110.9	SG 3.3	LR 10	SG -8
					SSG 8	
4 82	Station 497+00 4' Right of Centerline @ Highlands Avenue	12/27	B 120.2	B 4.0	A/C 2 3/8	B -6
			SG 110.1	SG 4.5	LR 8	SG -8
					SSG 14	
5 83	Station 495+00 9' Left of Centerline @ Highlands Avenue	12/27	B 119.6	B 3.1	A/C 2 1/4	B -6
			SG 120.3	SG 5.2	LR 6 1/2	SG -8
					SSG 15	
6 84	Station 490+00 5' Left of Centerline @ Highlands Avenue	12/27	B 119.8	B 4.4	A/C 3 1/4	B -6
			SG 114.8	SG 6.4	LR 8	SG -8
					SSG 13 1/2	
7 85	Station 485+00 9' Left of Centerline @ Highlands Avenue	12/27	B 121.3	B 4.2	A/C 2 1/2	B -6
			SG 114.6	SG 4.6	LR 7	SG -8
					SSG 13	
8 86	Station 480+00 7.5' Left of Centerline @ Highlands Avenue	12/28	B 121.0	B 4.5	A/C 2	B -6
			SG 112.6	SG 4.9	LR 6 3/4	SG -8
					SSG 12	
9 87	Station 474+00 10.5' Left of Centerline @ Highlands Avenue	12/28	B 119.9	B 4.6	A/C 2 7/8	B -6
			SG 115.1	SG 5.5	LR 7 1/2	SG -8
					SSG 13	
10 88	Station 469+50 4.5' Left of Centerline @ Highlands Avenue	12/28	B 120.1	B 4.0	A/C 3 1/4	B -6
			SG 110.4	SG 4.7	LR 8	SG -8
					SSG 13 1/2	
11 89	Station 465+00 8.5' Left of Centerline @ Highlands Avenue	12/28	B 120.6	B 5.1	A/C 3 1/2	B -6
			SG 116.4	SG 5.0	LR 8	SG -8
					SSG 14	
12 90	Station 460+50 10.5' Left of Centerline @ Highlands Avenue	12/28	B 117.5	B 8.3	A/C 3	B -6
			SG 121.2	SG 7.5	White Shell 6	SG -8
					SSG 14	
13 91	Station 455+00 4' Left of Centerline @ Highlands Avenue	12/28	B 119.9	B 4.2	A/C 3 1/2	B -6
			SG 115.9	SG 5.5	LR 7	SG -8
					SSG 17	
14 92	Station 450+00 8' Left of Centerline @ Highlands Avenue	12/28	B 120.1	B 4.3	A/C 3 1/2	B -6
			SG 114.3	SG 5.2	LR 6	SG -8
					SSG 12	

Field Test Method: ASTM D 2922 (Tests 1-78) and ASTM D 2937 (Tests 79 - 156)

LEGEND:

AC = Asphaltic Concrete S/S = Silty Sand
 LR = Limerock Base B = Base
 SSG = Stabilized Subgrade SG = Subgrade
 CFS = Clay Fine Sand

AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF THE CLIENTS AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL.



FIELD IN-PLACE DENSITY TEST RESULTS

ARDAMAN & ASSOCIATES, INC.

PROJECT: Sebring Parkway Phase II

FILE NO. 04-9326

DATE 01/20/05

CLIENT: Highlands County Board of County Commissioners

REPORT 1

PAGE 2 of 7

TEST NO.	LOCATION	TEST DATE	DRY DENSITY (PCF)	MOISTURE (%)	DEPTH THICKNESS (INCHES)	DEPTH OF TEST (INCHES)
15 93	Station 445+00 5' Left of Centerline @ Highlands Avenue	12/28	B 119.5	B 3.5	A/C 3 1/4	B -6
			SG 118.5	SG 6.4	LR 6	SG -8
16 94	Station 440+00 8.5' Left of Centerline @ Highlands Avenue	12/28	B 116.6	B 7.0	A/C 4 1/4	B -6
			SG 109.6	SG 3.1	Shell 7 1/2	SG -8
17 95	Station 435+00 15' Left of Centerline @ Highlands Avenue	12/28	B 116.8	B 7.9	SSG 10	B -6
			SG 115.4	SG 6.9	Shell 8	SG -8
18 96	Station 430+00 13' Left of Centerline @ Highlands Avenue	12/28	B 116.8	B 7.9	SSG 9	B -6
			SG 113.8	SG 4.6	A/C 4	SG -8
19 97	Station 425+00 3.5' Left of Centerline @ Highlands Avenue	12/28	B 119.2	B 7.9	Shell 9 1/2	B -6
			SG 113.8	SG 4.6	SSG 13	SG -8
20 98	Station 427+00 9.5' Right of Centerline @ Highlands Avenue	12/28	B 122.9	B 5.5	A/C 3 1/2	B -6
			SG 118.0	SG 6.4	LR 8	SG -8
21 99	Station 427+00 9.5' Right of Centerline @ Highlands Avenue	12/28	B 118.8	B 3.1	SSG 16	B -6
			SG 113.1	SG 4.2	A/C 3 1/2	SG -8
22 100	Station 432+00 5' Right of Centerline @ Highlands Avenue	12/28	B 118.8	B 3.2	LR 6 1/2	B -6
			SG 118.3	SG 5.6	SSG 18 1/2	SG -8
23 101	Station 437+00 7' Right of Centerline @ Highlands Avenue	12/29	B 118.9	B 3.2	A/C 3 1/2	B -6
			SG 118.3	SG 5.6	LR 8 1/2	SG -8
24 102	Station 437+00 7' Right of Centerline @ Highlands Avenue	12/29	B 119.1	B 4.2	SSG 24	B -6
			SG 113.8	SG 5.3	A/C 3 1/2	SG -8
25 103	Station 442+00 8.5' Right of Centerline @ Highlands Avenue	12/29	B 119.1	B 4.2	LR 7	B -6
			SG 113.8	SG 5.3	SSG 15	SG -8
26 104	Station 442+00 8.5' Right of Centerline @ Highlands Avenue	12/29	B 119.6	B 3.9	A/C 3 1/2	B -6
			SG 113.2	SG 5.5	LR 7 1/2	SG -8
27 105	Station 447+00 4.5' Right of Centerline @ Highlands Avenue	12/29	B 119.5	B 4.5	SSG 15	B -6
			SG 115.0	SG 6.8	A/C 3 1/4	SG -8
28 106	Station 452+00 9' Right of Centerline @ Highlands Avenue	12/29	B 119.5	B 4.5	LR 7	B -6
			SG 115.0	SG 6.8	SSG 10 1/2	SG -8
29 107	Station 457+00 4' Right of Centerline @ Highlands Avenue	12/29	B 119.2	B 3.2	A/C 3 1/2	B -6
			SG 115.1	SG 5.0	LR 7	SG -8
30 108	Station 457+00 4' Right of Centerline @ Highlands Avenue	12/29	B 119.2	B 3.2	SSG 12 1/2	B -6
			SG 115.1	SG 5.0	A/C 3 1/2	SG -8
31 109	Station 462+00 9' Right of Centerline @ Highlands Avenue	1/3	B 119.2	B 3.9	LR 7 1/2	B -6
			SG 114.7	SG 5.8	SSG 13 1/2	SG -8
32 110	Station 462+00 9' Right of Centerline @ Highlands Avenue	1/3	B 119.2	B 4.5	A/C 3	B -6
			SG 119.4	SG 8.5	LR 8	SG -8
33 111	Station 466+75 4.5' Right of Centerline @ Highlands Avenue	1/3	B 119.2	B 4.5	SSG 15	B -6
			SG 119.4	SG 8.5	A/C 3 1/4	SG -8
34 112	Station 466+75 4.5' Right of Centerline @ Highlands Avenue	1/3	B 119.2	B 4.2	LR 8	B -6
			SG 113.2	SG 5.5	SSG 15	SG -8
35 113	Station 466+75 4.5' Right of Centerline @ Highlands Avenue	1/3	B 119.2	B 4.2	A/C 3 3/4	B -6
			SG 113.2	SG 5.5	LR 7 1/4	SG -8
36 114	Station 466+75 4.5' Right of Centerline @ Highlands Avenue	1/3	B 119.2	B 4.2	SSG 14 1/2	B -6
			SG 113.2	SG 5.5	A/C 3 3/4	SG -8

Field Test Method: ASTM D 2922 (Tests 1-78) and ASTM D 2937 (Tests 79 - 156)

LEGEND:

AC = Asphaltic Concrete

S/S = Silty Sand

LR = Limerock Base

B = Base

SSG = Stabilized Subgrade

SG = Subgrade

CFS = Clay Fine Sand

AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF THE CLIENTS AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING ©



FIELD IN-PLACE DENSITY TEST RESULTS

ARDAMAN & ASSOCIATES, INC.

OBJECT: Sebring Parkway Phase II

FILE NO. 04-9326

DATE 01/20/05

CLIENT: Highlands County Board of County Commissioners

REPORT 1

PAGE 3 of 7

TEST NO.	LOCATION	TEST DATE	DRY DENSITY (PCF)	MOISTURE (%)	DEPTH THICKNESS (INCHES)	DEPTH OF TEST (INCHES)
29 107	Station 472+00 8.5' Right of Centerline @ Highlands Avenue	1/3	B 129.9	B 12.2	A/C 3	B -6
			SG 114.3	SG 4.8	LR 7 1/4	
					SSG 15	SG -8
30 108	Station 420+00 3' Left of Centerline @ Highlands Avenue	1/3	B 117.2	B 6.5	A/C Cracked Up 3	B -6
			SG 104.0	SG 2.2	White Shell 11	
					SSG 8	SG -8
					Weak Sands Very Little w/Trace Mixed Sands No CFS	
31 109	Station 415+00 7' Left of Centerline @ Highlands Avenue	1/3	B 123.0	B 7.7	A/C Cracked Up 2 1/2	B -6
			SG 105.0	SG 2.2	Yellow Shell 14	
					SSG 8 Weak Sands Very Little w/Trace Mixed Sands No CFS	SG -8
32 110	Station 410+00 5' Left of Centerline @ Highlands Avenue	1/3	B 119.1	B 4.6	A/C Cracked Up 3	B -6
			SG 104.9	SG 2.6	LR 6	
					SSG 8 Weak Sands	SG -8
33 1	Station 412+00 6.5' Right of Centerline @ Highlands Avenue	1/3	B 114.6	B 3.6	A/C 3 1/2	B -6
					Red CFS 3	
					Shell 2	
					Black Sand A/C 2	
					Clay 4	SG -8
					Yellow Brown S/S	
34 112	Station 417+00 13.5' Right of Centerline @ Highlands Avenue	1/3	B 118.9	B 7.7	A/C 2 1/2	B -6
			SG 106.0	SG 1.5	Red CFS 1	
					Sand A/C 2	SG -8
					CFS 3	
					SSG 8 Weak Sands	
35 113	Station 420+50 11' Right of Centerline @ Highlands Avenue	1/3	B 120.6	B 7.0	A/C 3	B -6
			SG 107.2	SG 1.8	Red CFS 2	
					CFS 5	SG -8
					SSG 8 Weak Sands	
36 114	Station 405+00 6.5' Left of Centerline @ Highlands Avenue	1/3	B 118.3	B 6.6	A/C Cracked 3	B -6
			SG 107.2	SG 3.6	Red CFS 7	
					SSG 6 Weak Sands	SG -6
37 115	Station 400+00 3' Left of Centerline @ Highlands Avenue	1/3	B 118.8	B 5.6	A/C Cracked 2 1/2	B -6
			SG 118.5	SG 6.8	Red CFS 6	
					SSG 8 Red CFS	SG -8
38 116	Station 402+00 6' Right of Centerline @ Highlands Avenue	1/3	B 118.3	B 6.8	A/C Cracked 3 1/2	B -6
			SG 116.3	SG 6.6	Red CFS 8	
					SSG 12	SG -8
					Mixed Yellow Orange Brown CFS	

Field Test Method: ASTM D 2922 (Tests 1-78) and ASTM D 2937 (Tests 79 - 156)

LEGEND:

AC = Asphaltic Concrete

S/S = Silty Sand

R = Limerock Base

B = Base

SSG = Stabilized Subgrade

SG = Subgrade

CFS = Clay Fine Sand

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ITB 19-055 Addendum No 3



FIELD IN-PLACE DENSITY TEST RESULTS

ARDAMAN & ASSOCIATES, INC.

OBJECT: Sebring Parkway Phase II

FILE NO. 04-9326

DATE 01/20/05

CLIENT: Highlands County Board of County Commissioners

REPORT 1

PAGE 4 of 7

TEST NO.	LOCATION	TEST DATE	DRY DENSITY (PCF)	MOISTURE (%)	DEPTH THICKNESS (INCHES)	DEPTH OF TEST (INCHES)
39 117	Station 407+00 3' Right of Centerline @ Highlands Avenue	1/3	B 119.0 SG 106.8	B 6.1 SG 2.4	A/C Cracked 3 Red CFS 5 SSG 6 Weak Sands	B -6 SG -6
40 118	Station 391+50 7' Left of Centerline @ Eucalyptus Street	1/4	B 116.7 SG 106.6	B 5.9 SG 3.0	A/C Cracked 2 1/4 LR 2 Red CFS 4 SSG 8 Weak Sands Mixed Brown S/S	B -6 SG -8
41 119	Station 386+80 3' Left of Centerline @ Eucalyptus Street	1/4	B 113.5 SG 105.4	B 4.3 SG 3.6	A/C -3 LR -4 SSG -8 Weak S/S	B -4 SG -8
42 120	Station 381+50 7.5' Left of Centerline @ Eucalyptus Street	1/4	B 113.9 SG 111.4	B 4.6 SG 2.2	A/C 2 3/4 Red CFS 6 SSG 5 Weak S/S	B -6 SG -5
43 121	Station 376+50 4' Left of Centerline @ Eucalyptus Street	1/4	B 116.7 SG 102.8	B 4.4 SG 2.0	A/C 1 LR 5 1/4 SSG 2 1/2 Clay & Shell Mix 5 1/2 Weak S/S	B -5 SG -8
44 122	Station 371+50 7' Left of Centerline @ Eucalyptus Street	1/4	B 117.8 SG 104.6	B 4.6 SG 3.4	A/C 1 1/4 LR 6 SSG 9 Weak S/S	B -6 SG -8
45 123	Station 366+50 4' Left of Centerline @ Eucalyptus Street	1/4	B 119.4 SG 115.4	B 6.8 SG 5.0	A/C 3 1/8 Yellow Shell 8 SSG 12 Shell & Sands Mixed	B -6 SG -8
46 124	Station 365+00 22' Right of Centerline @ Eucalyptus Street	1/4	B 119.6 SG 105.8	B 6.5 SG 2.4	A/C 4 1/4 White Shell 13 SSG 8 Weak S/S	B -6 SG -8
47 125	Station 370+00 3.5' Right of Centerline @ Eucalyptus Street	1/4	B 118.4 SG 110.1	B 5.9 SG 4.4	A/C 1 1/8 White Shell 6 SSG 12 Weak Sands	B -6 SG -8
48 126	Station 375+00 6' Right of Centerline @ Eucalyptus Street	1/4	B 117.1 SG 106.8	B 5.2 SG 4.0	A/C 1 1/2 White Shell 6 SSG 8 Weak Sands Mix w/Trace Clay	B -6 SG -8
49 127	Station 380+00 4' Right of Centerline @ Eucalyptus Street	1/4	B 115.1 SG 100.6	B 6.2 SG 5.1	A/C 2 1/8 Red CFS 10 1/2 SSG 5 Weak Silty Sands	B -6 SG -5
50 128	Station 385+00 7' Right of Centerline @ Eucalyptus Street	1/4	B 106.8 SG 106.1	B 6.5 SG 2.0	A/C 2 White Shell -3 SSG 5 Weak S/S	B -3 SG -5

Field Test Method: ASTM D 2922 (Tests 1-78) and ASTM D 2937 (Tests 79 - 156)

LEGEND:

AC = Asphaltic Concrete	S/S = Silty Sand
LR = Limerock Base	B = Base
SG = Stabilized Subgrade	SG = Subgrade
CFS = Clay Fine Sand	

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FIELD IN-PLACE DENSITY TEST RESULTS

ARDAMAN & ASSOCIATES, INC.

PROJECT: Sebring Parkway Phase II **FILE NO.** 04-9326 **DATE** 01/20/05
CLIENT: Highlands County Board of County Commissioners **REPORT** 1 **PAGE** 5 of 7

TEST NO.	LOCATION	TEST DATE	DRY DENSITY (PCF)	MOISTURE (%)	DEPTH THICKNESS (INCHES)	DEPTH OF TEST (INCHES)
51 129	Station 390+00 2.5' Right of Centerline @ Eucalyptus Street	1/4	B 114.1 SG 108.4	B 4.5 SG 2.2	A/C 2 1/2 LR 4 SSG 7 Weak S/S	B -4 SG -7
52 130	Station 12+50 6.5' Right of Centerline @ Center Street	1/5	B 120.5 SG 104.9	B 4.9 SG 3.2	A/C 3 1/4 2 Sand A/C Base LR 6 SSG 6 Weak S/S	B -6 SG -6
53 131	Station 17+50 8' Right of Centerline @ Center Street	1/5	B 118.6 SG 104.4	B 4.5 SG 3.3	A/C 4 1 Sand A/C Base LR 5 1/2 SSG 8 Weak S/S w/Trace Shell	B -5 SG -8
54 132	Station 19+00 7.5' Left of Centerline @ Center Street	1/5	B 119.2 SG 103.9	B 4.6 SG 4.0	A/C 2 1/2 2 Sand A/C Base LR 6 SSG 6 Weak S/S	B -6 SG -6
55 133	Station 14+00 5' Left of Centerline @ Center Street	1/5	B 119.0 SG 104.7	B 4.9 SG 3.4	A/C 2 1/2 LR 8 SSG 6 Weak S/S	B -6 SG -6
56 134	Station 4+75 4' Right of Centerline @ Lemon Avenue	1/5	B 119.4 SG 104.7	B 4.6 SG 3.6	A/C 4 LR 6 SSG 8 Weak S/S	B -6 SG -8
57 135	Station 6+75 5' Left of Centerline @ Lemon Avenue	1/5	B 119.2 SG 103.5	B 5.5 SG 4.0	A/C 3 1/4 1 3/4 Sand A/C Base LR 5 1/2 SSG 8 Weak S/S	B -5 SG -8
58 136	Station 26+75 4' Left of Centerline @ Violet Avenue	1/5	B 119.3 SG 107.1	B 4.5 SG 3.9	A/C 1 3/4 LR 9 SSG 8 Mixed w/Trace LR	B -6 SG -8
59 137	Station 37+00 3' Right of Centerline @ Kenilworth Boulevard	1/7	B 122.8 SG 112.9	B 7.6 SG 4.2	A/C 2 1/8 Yellow Shell 6 SSG 8 Mixed w/Trace LR	B -6 SG -8
60 138	Station 41+00 3' Right of Centerline @ Kenilworth Boulevard	1/7	B 123.8 SG 111.8	B 8.7 SG 3.4	A/C 2 1/4 White Shell 8 SSG 8 Mixed w/Trace LR	B -6 SG -8
61 139	Station 47+90 2.5' Right of Centerline @ Kenilworth Boulevard	1/7	B 118.6 SG 111.9	B 5.1 SG 3.4	A/C 2 1/2 White Shell 6 SSG 10 Yellow Brown CFS	B -6 SG -8

Field Test Method: ASTM D 2922 (Tests 1-78) and ASTM D 2937 (Tests 79 - 156)

LEGEND:

AC = Asphaltic Concrete	S/S = Silty Sand
LR = Limerock Base	B = Base
SSG = Stabilized Subgrade	SG = Subgrade
S = Clay Fine Sand	

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FIELD IN-PLACE DENSITY TEST RESULTS

ARDAMAN & ASSOCIATES, INC.

PROJECT: Sebring Parkway Phase II **FILE NO.** 04-9326 **DATE** 01/20/05
CLIENT: Highlands County Board of County Commissioners **REPORT** 1 **PAGE** 6 of 7

TEST NO.	LOCATION	TEST DATE	DRY DENSITY (PCF)	MOISTURE (%)	DEPTH THICKNESS (INCHES)	DEPTH OF TEST (INCHES)
62 140	Station 52+10 4.5' Right of Centerline @ Kenilworth Boulevard	1/7	B 127.8	B 8.2	A/C 2 1/2	B -6
			SG 112.6	SG 3.0	Yellow Brown LR Ridgil 8 SSG 8	
63 141	Station 54+00 5.5 Left of Centerline @ Kenilworth Boulevard	1/7	B 129.9	B 8.0	A/C 2 1/2	B -6
			SG 111.9	SG 2.7	LR 6 SSG 9	
64 142	Station 49+00 5' Left of Centerline @ Kenilworth Boulevard	1/7	B 127.4	B 6.9	A/C 2 3/4	B -6
			SG 112.6	SG 3.8	LR 7 SSG 8	
65 143	Station 45+00 5.5 Left of Centerline @ Kenilworth Boulevard	1/7	B 126.4	B 6.3	A/C 2 1/2	B -6
			SG 113.6	SG 4.0	LR 6 SSG 9	
66 144	Station 39+00 5' Left of Centerline @ Kenilworth Boulevard	1/7	B 124.9	B 5.6	A/C 2	B -6
			SG 110.5	SG 3.2	LR 6 SSG 8	
67 145	Station 61+00 4.5' Right of Centerline @ Youth Care Lane	1/6	B 116.9	B 6.0	A/C 3	B -5
			SG 107.3	SG 2.8	Light Brown CFS 5 SSG 6 Weak Orange Brown S/S	
68 6	Station 66+00 4.5' Right of Centerline @ Youth Care Lane	1/6	B 117.3	B 6.4	A/C 3	B -5
			SG 108.8	SG 2.2	Light Brown CFS 5 SSG 6 Weak Orange Brown S/S	
69 147	Station 71+00 4.5 Right of Centerline @ Youth Care Lane	1/6	B 116.7	B 6.1	A/C 3 3/4	B -3
			SG 115.5	SG 8.2	Light Brown CFS 3 SSG 10 Mixed Brown S/S w/CFS & LR	
70 148	Station 69+00 12.5' Left of Centerline @ Youth Care Lane	1/6	B 121.5	B 8.5	A/C 2 1/8	B -6
			SG 106.7	SG 2.6	White Shell 15 SSG 8 Mixed Brown S/S	
71 149	Station 64+00 2.5' Left of Centerline @ Youth Care Lane	1/6	B 117.1	B 6.6	A/C 4	B -6
			SG 110.0	SG 3.1	Light Brown CFS 7 SSG 8 Mixed Red Orange Brown S/S w/Trace CFS	
72 150	Station 59+90 4' Left of Centerline @ Youth Care Lane	1/6	B 112.6	B 6.1	A/C 2 3/4	B -6
			SG 111.9	SG 4.2	Light Brown CFS 7 SSG 8 Mixed Brown S/S w/LR A/C CFSTrace CFS	

Field Test Method: ASTM D 2922 (Tests 1-78) and ASTM D 2937 (Tests 79 - 156)

LEGEND:

AC = Asphaltic Concrete	S/S = Silty Sand
LR = Limerock Base	B = Base
SSG = Stabilized Subgrade	SG = Subgrade
CFS = Clay Fine Sand	

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FIELD IN-PLACE DENSITY TEST RESULTS

ARDAMAN & ASSOCIATES, INC.

PROJECT: Sebring Parkway Phase II **FILE NO.** 04-9326 **DATE** 01/20/05
CLIENT: Highlands County Board of County Commissioners **REPORT** 1 **PAGE** 7 of 7

TEST NO.	LOCATION	TEST DATE	DRY DENSITY (PCF)	MOISTURE (%)	DEPTH THICKNESS (INCHES)	DEPTH OF TEST (INCHES)
73 151	Station 74+00 5' Right of Centerline @ Desoto Road	1/5	B 112.3	B 6.1	A/C 3 1/4	B -4
			SG 110.9	SG 3.0	Red CFS 4	SG -8
74 152	Station 79+00 5' Right of Centerline @ Desoto Road	1/6	B 112.8	B 6.1	A/C 3 1/2	B -6
			SG 106.4	SG 2.2	Orange Brown Sand & CFS 6	SG -4
75 153	Station 84+00 8.5' Right of Centerline @ Desoto Road	1/6	B 112.2	B 6.3	SSG 4 Weak	B -6
			SG 109.2	SG 4.4	A/C 4	SG -6
76 154	Station 80+00 5' Left of Centerline @ Desoto Road	1/6	B 113.2	B 6.4	Orange Brown Sands & CFS 6	B -6
			SG 109.1	SG 2.4	SSG 6 Weak Mixed Brown S/S	SG -6
77 155	Station 82+75 4' Left of Centerline @ Desoto Road	1/6	B 112.8	B 6.1	A/C 4	B -6
			SG 104.7	SG 2.0	Red CFS 7	SG -8
78 156	Station 77+00 7' Left of Centerline @ Desoto Road	1/6	B 114.2	B 5.8	SSG 9 Mixed Brown S/S w/some CFS	B -6
			SG 114.5	SG 4.9	Red CFS 9 1/2	SG -8

Field Test Method: ASTM D 2922 (Tests 1-78) and ASTM D 2937 (Tests 79 - 156)

LEGEND:

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R = Limerock Base	B = Base
SG = Stabilized Subgrade	SG = Subgrade
CFS = Clay Fine Sand	

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ATTACHMENT C



SCFE

SOUTH CENTRAL
FLORIDA EXPRESS, INC.

PMB 161 • 11250-15 St. Augustine Road • Jacksonville, Florida • 32257-1147 • (800) 818-0184

January 1, 2020

Contact Name & Title

Company Name

Address

City, State Zip

RE: Right-of-Entry

This letter shall serve as a Right-of-Entry Agreement for “Company Name”, and/or their agents, hereinafter called “Company”, for the purpose of ingress/egress across South Central Florida Express, Inc’s (SCFE) property and right-of-way at or near City, County, FL, to construct “scope of work to be performed” on, near over or under SCFE’s tracks and property, aerial, plans and/or drawings of which are shown on attached Exhibit “A”.

Please sign, date and return two original documents for execution on behalf of SCFE along with a check for \$2,000 preparation, review and administration fee made out to RAMS, Inc. A fully executed copy will be returned for your records.

Permission to enter upon SCFE’s land is for the purpose only of performing said work, subject to the terms, conditions and provisions hereinafter set forth:

1. This agreement shall be valid for a period of sixty (60) days from the start date of _____, 2020 to the end date of _____, 2020 (___/___/2020 through ___/___/2020).
2. Company will pay \$2,000 to cover the cost of preparing this agreement.
3. Company’s scope of work will be completed according to the attached Exhibit “A” and drawings and will use extreme care and safety when on, over or near SCFE’s tracks and right-of-way.
4. Nothing herein contained shall be construed to permit Company to move any vehicles or equipment over tracks of Railroad, except at public road crossings.
5. Company has provided the mobile phone number of a reliable employee that will be on-site daily in case of emergencies or a change in train schedules.

Name – Phone number

6. Company will provide no less than five (5) working days notice to SCFE prior to entering and performing any work on the SCFE property. Railroad will at that time notify Company if a flagman will be necessary and shall invoice Company according to the rates in effect at the time the flagging is requested. Those rates are currently \$900 per day - per flagger for a maximum of eight (8) hours. All notices will be sent to the following:

South Central Florida Express, Inc.	Tel: 863-902-2553
900 South W.C. Owen Avenue	Cell: 863-228-2471
Clewiston, FL 33440	Fax: 863-983-6773
Attn: Ben Martinez - GM	

With a copy to:

RAMS, Inc.	Tel: 904-448-6344
11250 Old St Augustine Rd	Fax: 904-448-1215
Suite 15, PMB-161	
Jacksonville, FL 32257	
Attn: Jarrett Mankin – Director Real Estate	

7. Company hereby agrees to indemnify, defend, protect and save SCFE harmless from and against injury to or death of any person or persons whomsoever, including, but not limited to, the agents, servants or employees of the parties hereto, or the loss or damage to any property whatsoever, including property owned or in the care, custody or control of SCFE, and all claims, demands, suits, judgments, fines or expenses incurred in connection therewith, resulting from or arising out of the acts or omissions of said contractor, or its agents, servants or employees, in the performance or execution of the work to be performed by Company under this Agreement or incidental thereto, which results from the sole or concurring negligence of Company or its agents, servants or employees.

8. Company shall purchase and maintain, at Company's expense, Commercial General Liability Insurance coverage in the minimum amount of \$3,000,000.00 combined single limit for bodily injury and property damage liability with a thirty (30) day unconditional notice of cancellation to the railroad covering liability assumed by Company under this Agreement and Workers Compensation Insurance and *provide certificates of insurance to SCFE*, naming SCFE as additional insured, verifying the same prior to performing of any work. Company shall also purchase and maintain Automobile Liability Insurance of at least \$500,000.00 combined single limit for bodily injury and/or property damage per occurrence.

9. Company shall purchase and maintain, at Company's expense, a Railroad Protective Liability Insurance Policy having been received in the name of and approved by SCFE as to the limits, form, and substance. Limits are \$1,000,000 for bodily injury and property damage per occurrence, and an aggregate of \$3,000,000 with a Waiver of Subrogation in favor of SCFE. The policy will remain in force during this project and must be provided prior to SCFE executing this Agreement.

10. All rights which Company may have hereunder shall cease and end upon the (a) “end date” shown in Section 1 of this Agreement, (b) SCFE’s revocation, and/or (c) Company’s notice to SCFE that the project has ended before the “end date”. However, termination or revocation of this Agreement shall not affect any claims and liabilities which may have arisen or accrued hereunder, and which at the time of termination or revocation have not been satisfied.

Company Name

Contact, Title date

South Central Florida Express, Inc.

Jarrett Mankin, Director – Real Estate date

Exhibit "A"

ATTACH PLANS AND MAP

ATTACHMENT D



11250 Old Saint Augustine Road
Jacksonville, FL 32257
Suite 15, PMB-161
Phone (800) 818-0184
Fax (904) 448-1215
ramsinc@bellsouth.net

APPLICATION FOR CONTRACTOR OCCUPANCY ON RAILROAD PROPERTY

Name of Applicant:

Fax:

Physical Address:

Phone:

P.O. Box:

FEIN:

City State Zip:

SSN:

Contact Name:

Email:

Corporate Name:

State Incorporated:

LOCATION

Railroad Name:

Nearest City:

County:

State:

Nearest Railroad Mile Post:

Distance and direction from
nearest Railroad Mile Post:

Feet

Long./ Lat.:

EXISTING AGREEMENTS

Is Crossing Within a Public Road Right-Of -Way?

If Yes, Name of Road:

Is there an Existing Lease or License Agreement at this Location?

List Lease or License #

Is the Existing Agreement in the same name as the Applicant on this Application?

If Not, List the Name, Address and Phone Number of Party you Represent:

DETAILS OF PROJECT

Describe in detail the manner and method of installation on Railroad property:

Submit this application via E-Mail to ramsinc@bellsouth.net and also mail the original copy with your non-refundable Application Fee of \$2,000 payable to RAMS, Inc. to:

***11250 Old Saint Augustine Road
Jacksonville, FL 32257
Suite 15, PMB-161
Phone (800) 818-0184
Fax (904) 448-1215
ramsinc@bellsouth.net***

Any questions concerning this application should be submitted by email to ramsinc@bellsouth.net. All correspondence submitted by email receives priority response. Other requests can be made by calling (800) 818- 0184.

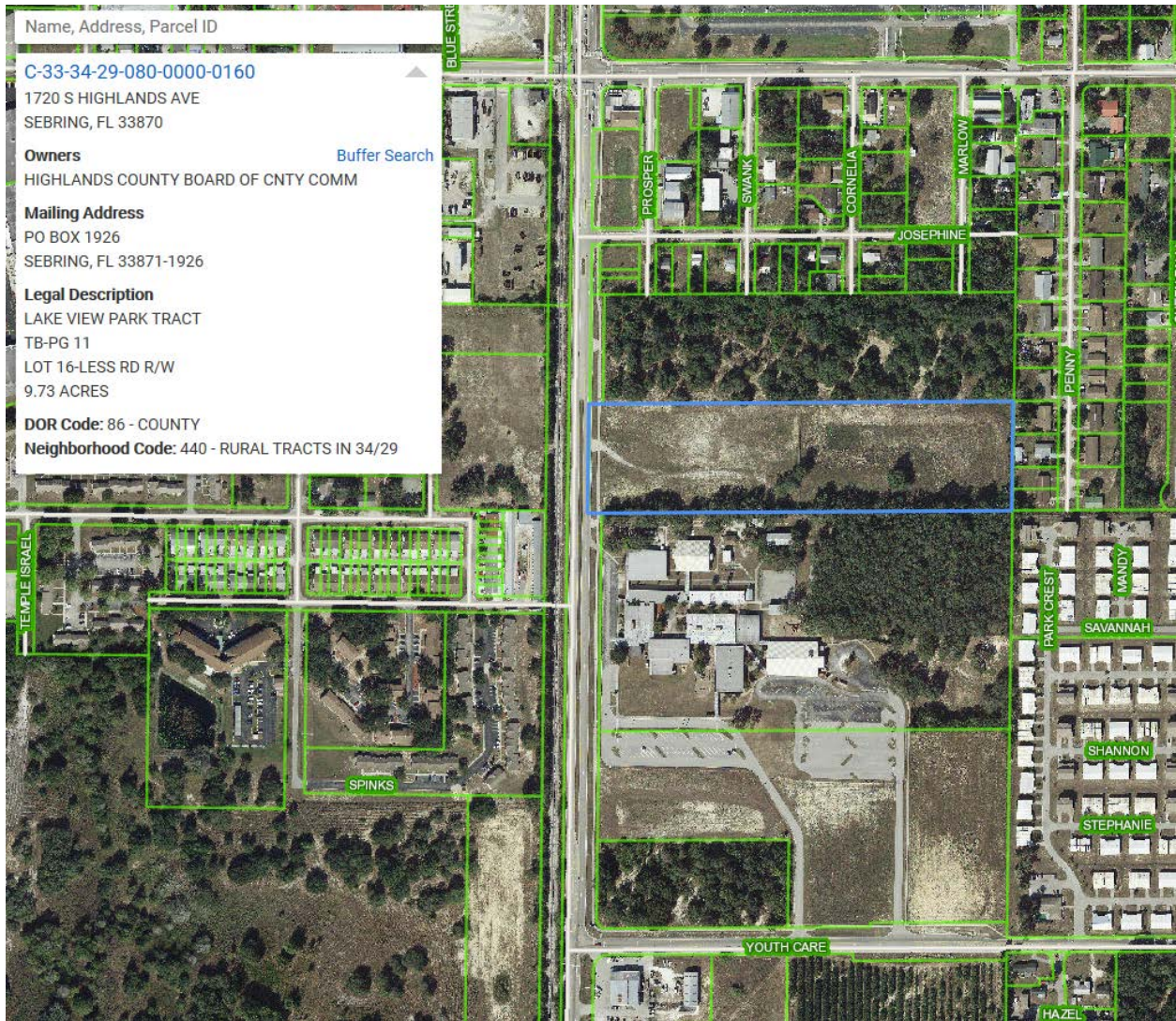
Date: _____ Name: _____
Phone: _____ Title: _____
Contact Email Address: _____

RAMS USE ONLY

P CODE

Contract Number

ATTACHMENT E



ATTACHMENT F

CITY OF SEBRING UTILITY MODIFICATIONS- REVISED

BID FORM PART #5-CITY OF SEBRING UTILITY MODIFICATIONS (WATER LINE & FORCE MAIN)

TASK NO.	ITEM DESCRIPTION	QTY	UNIT	UNIT PRICE	ITEM COST
WATER LINE					
1	MOBILIZATION	LS	1	\$	\$
2	BONDS & INSURANCE	LS	1	\$	\$
3	CONSTRUCTION SURVEY STAKING INCLUDING AS-BUILT	LS	1		
4	MAINTENANCE OF TRAFFIC	LS	1	\$	\$
5	TESTING	LS	1	\$	\$
6	2" RING TITE	LF	230	\$	\$
7	4" DR 18 AWWA C-900	LF	80	\$	\$
8	6" DR 18 AWWA C-900	LF	45	\$	\$
9	8" DR 18 AWWA C-900	LF	1750	\$	\$
10	12" DR 18 AWWA C-900	LF	6520	\$	\$
11	DIRECTIONAL BORE 14" HDPE SDR 11 WITH MEGALUG REDUCERS & STAINLESS STEEL STIFFNERS	LF	270	\$	\$
12	JACK & BORE 24" X-HEAVY STEEL CASING (0.5" THICK), INC. SPACERS & JOINT RESTRAINTS	LF	200	\$	\$
13	16" STANDARD STEEL CASING (0.375" THICK)	LF	285	\$	\$
14	24" X-HEAVY STEEL CASING (0.5" THICK)	LF	690	\$	\$
15	2" STAINLESS STEEL TAPPING SADDLE ASSEMBLY	EA	7	\$	\$
16	4" STAINLESS STEEL TAPPING SADDLE ASSEMBLY	EA	4	\$	\$
17	6" STAINLESS STEEL TAPPING SADDLE ASSEMBLY	EA	2	\$	\$
18	8" STAINLESS STEEL TAPPING SADDLE ASSEMBLY	EA	4	\$	\$

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19	12" STAINLESS STEEL TAPPING SADDLE ASSEMBLY	EA	3	\$	\$
20	FIRE HYDRANT ASSEMBLY	EA	3	\$	\$
21	8"x8"x4" MEG-A-LUG AWWA WATER TEE	EA	4	\$	\$
22	12"x12"x6" MEG-A-LUG AWWA WATER TEE	EA	1	\$	\$
23	12"x12"x8" MEG-A-LUG AWWA WATER TEE	EA	8	\$	\$
24	12"x12"x12" MEG-A-LUG AWWA WATER TEE	EA	6	\$	\$
25	12"X2" TAPPING SADDLE MANUAL AIR RELEASE VALVE ASSEMBLY/SAMPLE POINT WITH FITTINGS	EA	1	\$	\$
26	2" RING-TITE WATER GATE VALVE WITH VALVE COVER BOX	EA	4	\$	\$
27	4" AWWA WATER GATE VALVE WITH VALVE COVER BOX	EA	4	\$	\$
28	6" AWWA WATER GATE VALVE WITH VALVE COVER BOX	EA	2	\$	\$
29	8" AWWA WATER GATE VALVE WITH VALVE COVER BOX	EA	16	\$	\$
30	12" AWWA WATER GATE VALVE WITH VALVE COVER BOX	EA	33	\$	\$
31	4" AWWA WATER GATE VALVES CUT INTO ACTIVE LINES WITH VALVE COVER BOX	EA	4	\$	\$
32	6" AWWA WATER GATE VALVES CUT INTO ACTIVE LINES WITH VALVE COVER BOX	EA	3	\$	\$
33	8" AWWA WATER GATE VALVES CUT INTO ACTIVE LINES WITH VALVE COVER BOX	EA	5	\$	\$
34	12" AWWA WATER GATE VALVES CUT INTO ACTIVE LINES WITH VALVE COVER BOX	EA	3	\$	\$
35	12" AWWA 11.25° ELBOW	EA	6	\$	\$
36	6" AWWA 22.5° ELBOW	EA	1	\$	\$

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37	12" AWWA 22.5° ELBOW	EA	3	\$	\$
38	6" AWWA 45° ELBOW	EA	2	\$	\$
39	12" AWWA 45° ELBOW	EA	30	\$	\$
40	6" AWWA 90° ELBOW	EA	4	\$	\$
40	8" AWWA 45 degree ELBOW	EA	17	\$	\$
40A	MISCELANEOUS MECHANICAL JOINTS, RESTRAINING JOINTS & BELL RESTRAINTS	LS			\$
41	8" AWWA 90° ELBOW	EA	6	\$	\$
42	12" AWWA 90° ELBOW	EA	3	\$	\$
43	12" -> 8" AWWA REDUCERS	EA	1	\$	\$
43A	8" -> 6" AWWA REDUCERS	EA	1	\$	\$
44	14" -> 12" AWWA REDUCERS	EA	6	\$	\$
45	2" LOCATOR TAPE	LF	7,000	\$	\$
46	12 GA LOCATOR WIRE (BURIED & Directional Drill Bore)	LF	7,540	\$	\$
47	12 GA DIRECTIONAL DRILL/BORE PIPE	LF	540	\$	\$
48	BLOWOFF ASSEMBLY	EA	13	\$	\$
48A	TEMPORARY SAMPLE POINT ASSEMBLY INCLUDING TAPPING SADDLE INTO WATERLINE (FOR TESTING)	LS			\$
FORCE MAIN (SEWER)					
49	10" DR 18 AWWA C-900 FORCE MAIN	LF	5,085	\$	\$

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50	DIRECTIONAL BORE 12" HDPE SDR 11 WITH MEGALUG REDUCERS AND STAINLESS STEEL STIFFNERS	LF	245	\$	\$
51	20" X-HEAVY STEEL CASING (0.5" THICK)	LF	340	\$	\$
52	10" MEG-A-LUG GATE VALVE	EA	3	\$	\$
53	10"x2" TAPPING SADDLE MANUAL AIR RELEASE VALVE ASSEMBLY	EA	1	\$	\$
54	10" MEG-A-LUG 11.25° ELBOW	EA	5	\$	\$
55	10" MEG-A-LUG 22.5° ELBOW	EA	4	\$	\$
56	10" MEG-A-LUG 45° ELBOW	EA	13	\$	\$
57	2" LOCATOR TAPE	LF	4,750	\$	\$
58	12 GA LOCATOR WIRE (BURIED AND DIRECTIONAL DRILL BORE)	LF	5240	\$	\$
59	12 GA DIRECTIONAL DRILL/BORE PIPE	LF	490	\$	\$
59	MISCELANEOUS MECHANICAL JOINTS, RESTRAINING JOINTS & BELL RESTRAINTS	LS		\$	\$
PART #5, CITY OF SEBRING UTILITY (Task 1-59) SUB TOTAL AMOUNT					\$
Sub Total amount written in words:					