

CITY OF HALLANDALE BOH  
DPW/UTILITIESMILLER  LEGG

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June 19, 2009  
Revised July 24, 2009**Hand Delivered**Mr. Richard Labinsky, P.E.  
City of Hallandale Beach  
DPW Utilities & Engineering  
630 N.W. 2<sup>nd</sup> St.  
Hallandale Beach, FL. 33009**Re: Hallandale Beach Boulevard Corridor Study (the "Project")  
Miller Legg Proposal No. 09-P0319**

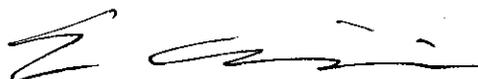
Dear Mr. Labinsky:

It was a pleasure meeting with you recently to further discuss the scope of your Project. Thank you for the opportunity to submit the attached Agreement for Professional Services to assist you with accomplishing your goals on the Hallandale Beach Boulevard Corridor Study Project. Please find enclosed a complete scope of services package in accordance with the terms and conditions of our Continuing Services Contract dated May 28, 2009.

Please have an authorized Client signatory sign and initial the two (2) attached Agreements where indicated, **complete the Client Billing Instructions**, and return both originals for Miller Legg's execution. A fully-executed original will be mailed to you for your file.

Should you have any questions, please do not hesitate to contact me at (954) 628-3623 or [eczerniejewski@millerlegg.com](mailto:eczerniejewski@millerlegg.com). Again, thank you for this opportunity, and I look forward to speaking with you soon.

Sincerely,


Eric S. Czerniejewski, P.E.  
Associate, EngineeringESC/esc/bmg/Principal  
Attachment(s)


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**IMPROVING COMMUNITIES. CREATING ENVIRONMENTS.**South Florida Office: 1800 N Douglas Road • Suite 200 • Pembroke Pines, Florida • 33024-3200  
(954) 436-7000 • Fax: (954) 436-8664  
[www.millerlegg.com](http://www.millerlegg.com)

**AGREEMENT FOR PROFESSIONAL SERVICES**

**Client:** City of Hallandale Beach **Client Representative:** Richard Labinsky, P.E.  
City Engineer

**Address:** 630 N.W. 2<sup>nd</sup> St. **Address:** Same  
Hallandale Beach, FL., 33009

**Phone /Fax:** 954-457-1600/954-457-1624 **Phone/Fax:** Same

**Date:** June 19, 2009 **Proposal No.** 09-P0319 **T:** 51S **R:** 42E **S:** 27  
Revised July 24, 2009

**Project Name and Location:** Hallandale Beach Boulevard Corridor Study (the "Project")  
Hallandale Beach, Broward County, FL

**Description of Services to be Provided:** See Exhibit A

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Fee:** Lump Sum of \$44,950.00 **AND** Hourly not to exceed (NTE) fee of \$4,000.00  
**AND** Reimbursable Expenses Initial Budget of \$1,000.00

**Retainer:** (Payable upon execution of this Agreement) N/A

**Special Conditions:** See Exhibit A

\_\_\_\_\_

**Notice to Owner:** Is the Client the Owner of the Property?  **Yes**  **No**  
If "No", Owner's name and address: Florida Department of Transportation, 3400 West Commercial Boulevard  
Ft. Lauderdale, FL.

**The below parties agree that these services shall be in compliance with the Agreement and associated conditions, dated May 28, 2009. Any additional requested services will be addressed in a separate agreement.**

Miller, Legg & Associates, Inc. d/b/a Miller Legg  
(Consultant)

City of Hallandale Beach (Client)

ESC/esc/bmg  
Attachments: General Conditions/Special Provisions  
Client Billing Instructions  
Rate Schedule/Exhibit A

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## 2009 RATE SCHEDULE

<u>Professional Services</u>	<u>Hourly Rate</u>
Administrative Assistant/Technical Assistant	\$ 55
Project Administrator	\$ 75
CAD Operator	\$ 60
Technician	\$ 70
Senior Technician	\$ 80
Technical Specialist	\$ 95
Senior Technical Specialist I	\$ 105
Senior Technical Specialist II	\$ 115
Designer	\$ 100
Senior Designer I	\$ 110
Senior Designer II	\$ 140
Construction Specialist	\$ 100
Senior Construction Specialist I	\$ 115
Senior Construction Specialist II	\$ 150
Engineer I	\$ 110
Engineer II	\$ 125
Engineer III	\$ 170
Senior Engineer	\$ 195
Biologist I	\$ 80
Biologist II	\$ 90
Project Biologist	\$ 115
Senior Biologist	\$ 145
Environmental Scientist	\$ 100
Senior Environmental Scientist	\$ 150
Landscape Designer I	\$ 85
Landscape Designer II	\$ 90
Senior Landscape Designer I	\$ 95
Senior Landscape Designer II	\$ 100
Landscape Architect I / Planner I	\$ 105
Landscape Architect II / Planner II	\$ 110
Project Landscape Architect/Project Planner	\$ 130
Senior Landscape Architect/Senior Planner	\$ 160
Surveyor I	\$ 90
Surveyor II	\$ 100
Surveyor III	\$ 110
Senior Surveyor	\$ 150
2-Person Survey Crew	\$ 135
3-Person Survey Crew	\$ 165
4-Person Survey Crew	\$ 195
2-Person Senior Survey Crew	\$ 145
3-Person Senior Survey Crew	\$ 175
GIS Specialist	\$ 95
Senior GIS Specialist I	\$ 105
Senior GIS Specialist II	\$ 120
Senior GIS Specialist III	\$ 140
GIS Coordinator	\$ 160
Director	\$ 200
Principal	\$ 230
Senior Principal	\$ 300
Expert Witness	\$ 300



**Sub Surface Utility Engineering****Rate**

Designation (Utility Location)	\$1,240/Day
Test Holes (Minimum of 6)	
Soft Surface (A)	\$ 250/ea.
Hard Surface (A)	\$ 450/ea.

**In-house Reimbursable Expenses****Rate**

Site Visit Zone 1 (Up to 20 Miles)	\$ 10.00
Site Visit Zone 2 (21 - 50 Miles)	\$ 20.00
Site Visit Zone 3 (Over 50 Miles)	\$ 30.00
Mileage (per mile)	\$ 0.75
Color Copies (<8 1/2" X 11") (per copy)	\$ 1.00
Color Copies (<11" X 17") (per copy)	\$ 2.00
Blackline Prints (<24" X 36") (per sheet)	\$ 2.20
Mylars (<24" X 36") (per sheet)	\$ 7.00
Vellums (<24" X 36") (per sheet)	\$ 5.50
Official Record Docs (per page)	\$ 1.00
Copies	(B)
Postage	(B)
Fax Transmissions	(B)

**Out-of-Pocket Expenses**

Cost + 15%

- (A) If less than 6 test holes, a \$500 mobilization fee will apply.  
(B) Charges for monthly copies, fax transmissions, postage, and long distance will be the greater of 0.5% of invoice amount or \$25.00.

NOTE: These rates are subject to change after December 31, 2009.



**EXHIBIT A – SCOPE OF SERVICES**  
**Hallandale Beach Boulevard Corridor Study (the “Project”)**

**1.0 PROJECT DESCRIPTION**

- 1.1 The Project is generally described as follows: traffic and transportation engineering design services for a corridor study along Hallandale Beach Boulevard between US-1 and A1A that includes traffic operational analysis at signalized and unsignalized intersections within this state road segment. The need for these traffic and transportation engineering design services are due to the desire of the City of Hallandale Beach to convert NE 8<sup>th</sup> Avenue and NE 10<sup>th</sup> Avenue from one way city collectors to two way city collectors and to improve the signal progression along this corridor.
- 1.2 The scope of services will include preparation of the corridor study and preparation of design plans for the geometric changes at the intersection of NE 10<sup>th</sup> Avenue and Hallandale Beach Boulevard. Design services for improvements inside the Florida Department of Transportation (FDOT) right-of-way (ROW) for any additional intersections may be provided as an additional service after the study has been completed. Design services related to improvements along NE 8<sup>th</sup> Avenue and NE 10<sup>th</sup> Avenue between Hallandale Beach Boulevard and Atlantic Shores Boulevard have not been included in this scope of services.

**2.0 BASIS OF SCOPE**

**2.1 General:**

- This Scope of Services was prepared based upon previously submitted Preliminary Engineering Assessment for the Conversion from One Way to Two Way Traffic Operations dated September 2008 as provided by the City of Hallandale Beach Boulevard.
- Within the Project corridor, Hallandale Beach Boulevard is a FDOT roadway. Approval from FDOT is required for the access management, roadway geometrics, traffic flow, intersection design, landscaping and drainage. Final review, permitting and approval by FDOT will be required.
- The project limits for the corridor study will be from the signalized intersection of Hallandale Beach Boulevard and NE 8<sup>th</sup> Avenue to the unsignalized intersection of Hallandale Beach Boulevard and NE 26<sup>th</sup> Avenue. If the project limits get extended beyond these defined limits an additional service will be provided.

- The Project includes minor upgrades to the signalized intersection including signal head modifications at NE 10<sup>th</sup> Avenue only. This scope of services assumes that the existing mast arm pole will remain in place where possible. The design plan preparation task included in this scope of services assumes that a new mast arm will need to be installed on the south side of NE 10<sup>th</sup> Avenue and Hallandale Beach Boulevard adjacent to the existing pole.
- The scope of services assumes that design services for roadway and/or intersection improvements not identified within are not included and these services can be provided as an additional service as requested by the Client.
- The preparation of Opinions of Probable Cost for the recommended roadway, intersection improvements or median modifications have not been included in this scope of services but can be provided as an additional service.
- This scope of services does not include Design Development plans for modification to adjacent and abutting property parcels. The topographic route survey will include above ground improvements within the FDOT right-of-way only.
- For purposes of this proposal, up to four (4) meetings with the City, County and FDOT have been included in Task 5 to discuss issues related to the traffic analysis/corridor study. One (1) ML representative will be present for each of these meetings.
- The project limits for the design services will be 300' west of the centerline of NE 10<sup>th</sup> Avenue to 300' east of the centerline of NE 10<sup>th</sup> Avenue on Hallandale Beach Boulevard. If the project limits get extended beyond these defined limits an additional service will be provided.
- For review purposes, two (2) separate submittal phases are anticipated for the Project. Consultant will deliver to the City the completed work product at the end of each phase. Submittal to FDOT will occur at the end of Phases II.
  - i. Phase I - 60% complete
  - ii. Phase II - 100% complete (Agency Permit Submittal)
- Design and Construction plans will be in an 11"x17" format and produced using AutoCAD 2009 software.
- Consultant will provide 100% final drawings to the City in AutoCAD format.

- The scope of services assumes that the City of Hallandale Beach will provide topographic survey information necessary for preparation of the design plans at NE 10<sup>th</sup> Avenue and Hallandale Beach Boulevard. If additional topographic surveying services and/or right of way research are necessary to prepare these design plans, an additional service will be provided.
- This scope of services assumes that all public involvement and outreach will be provided by the City of Hallandale Beach.

## **2.2 Engineering:**

- Roadway plans shall be prepared in accordance with the current editions of the FDOT Florida Greenbook and/or Roadway Design Standards, Manual on Uniform Traffic Control Devices, Federal Highway Administration/AASHTO and all other applicable requirements.
- Design features for the intersections located at Hallandale Beach Boulevard and NE 10<sup>th</sup> Avenue, such as radii of turning roadway, curb radii and offsets, lane widths, shall be designed based on FDOT Florida Greenbook and Manual of Uniform Traffic Control Devices, Federal Highway Administration/AASHTO.
- Grading revisions will be required at each intersection to provide accessibility.
- This scope of services assumes that no new drainage structures (e.g. curb inlets) will be needed within the R.O.W. This scope of services includes modification to existing drainage structures within the project limits.
- All drainage design and storm-water management plans if required will be prepared in accordance with the latest standards adopted by the FDOT's Standard Specifications for Road and Bridge Construction and FDOT Drainage Manual. The Project shall be designed to include the requirements of all regulatory agencies having jurisdiction, including the Broward County Environmental Protection Growth Management Department (BCEPGMD), the governing water management district, and any applicable local, municipal or county requirements.
- Environmental impacts are not anticipated as part of this Project.
- Sidewalk improvements along Hallandale Beach Boulevard are not anticipated within the project limits of this roadway corridor. If required, these design services will be provided as an additional service.

- Crosswalk locations will not be relocated. Only modifications as necessary at the NE 10<sup>th</sup> Avenue approaches are anticipated as part of the scope of services.
- Utility upgrades required outside of the project limits, if any, due to signal modifications will be addressed on the plans with notes and specifications only. Subsurface Utility Engineering (SUE) Services are not included in this scope of services.
- Geotechnical services for this scope of services are not included in this proposal. The City of Hallandale Beach will provide geotechnical services for the soil borings adjacent to the new mast arm foundation at NE 10<sup>th</sup> Avenue.
- Mast Arm Foundation Design Services are included in this scope of work. This scope of work assumes that standard structural design of potential new mast arm foundation will be based on the standard FDOT mast arm design tables from the current Roadway Design Standards. This scope of work assumes that soil properties of sufficient strength are present.

### **2.3 Traffic:**

- Traffic data collection will include collection of manual turning movement counts at the specified intersections within this Exhibit A. If additional traffic data collection is required beyond what is outlined, an additional service will be provided for this scope of work.
- Relocation of existing pedestrian signal displays are not anticipated as part of this scope of services.
- Maintenance of Traffic and the operations of the businesses adjacent to the Project corridor is an important consideration for the Project. Preparation and approval of a Maintenance of Traffic plan will be the responsibility of the Contractor selected for construction.
- The corridor study will include vested trips from surrounding proposed but unbuilt developments and project trips from Hallandale square as outlined in the Hallandale Square-NE 8<sup>th</sup> Avenue Alignment traffic study as provided by the City of Hallandale Beach.
- The corridor study will utilize pertinent information where necessary from the previously prepared City of Hallandale Beach 2030 Transportation Master Plan as provided by the City of Hallandale Beach.
- The corridor study will utilize pertinent information where necessary from the previously prepared NE 8<sup>th</sup> Avenue and NE 10<sup>th</sup> Avenue

Preliminary Engineering Assessment for the Conversion from One Way to Two Way Traffic Operations.

**3.0 INFORMATION TO BE PROVIDED BY CLIENT**

- 3.1 All pertinent traffic data/information related to the segment of Hallandale Beach Boulevard between US-1 and A1A.
- 3.2 As-built plans of existing Hallandale Beach Boulevard roadway segment, if available.
- 3.3 Filing and permit application fees, review fees, impact fees or any other associated assessments by other governments/agencies.
- 3.4 Existing utility information within the Project corridor and copies of any and all proposed utility improvement projects prepared by others within the Project corridor.
- 3.5 Plans for adjacent roadway, utility and site development projects which may affect or be affected by this NE 10<sup>th</sup> Avenue Project, if available.

**4.0 SCOPE OF BASIC SERVICES AND FEE**

The scope of services to be provided by Consultant shall be as follows:

***CIVIL/TRANSPORTATION ENGINEERING TASKS***

**Task 1 Roadway and Intersection Construction Documents** - The Consultant shall provide services required for the preparation of the construction plans and contract documents for the NE 10<sup>th</sup> Avenue intersection improvements at Hallandale Beach Boulevard as well as prepare and obtain all necessary permits required for the construction of these intersection improvements. These services shall include engineering design and construction plans for all construction proposed within the Hallandale Beach Boulevard road right-of-way and NE 10<sup>th</sup> Avenue project limits and shall include: roadway, signing and pavement marking plans, drainage plans, signal modification plans and permit preparation and processing.

**A. Preparation of Roadway and Intersection Documents** - The Consultant shall prepare roadway construction documents including: plotting of all survey data (from the City), key map, demolition plans, plan and profile sheets, intersection details, drainage detail sheets and traffic signal modification sheets necessary to convey the intent of the scope of work. Plan

preparation work shall also include pavement markings, signing and pavement marking details and related work.

**B. Governmental Permitting** - Consultant shall prepare and submit permit applications to agencies having jurisdiction over the Project including SFWMD, BCEPGMD, FDOT, BCTED and the City of Hallandale Beach for approval. Services include the preparation of permit packages which shall include, but not be limited to the following items:

- i. Design plan sets (signed and sealed).
- ii. Calculations to substantiate design.
- iii. Written description of design application.
- iv. Completed permit application forms, with appropriate signatures.
- v. Support data and documents.

The permit packages shall be submitted for review at the 100% plans submittal after the City's acceptance of the submittal.

**FEE: Lump Sum of \$13,300.00.**

**Task 2**

**Traffic Data Collection** – Traffic counts will be collected during the a.m. and p.m. peak hours for all intersections.

Manual turning movement counts (MTMC) will be collected at the following locations during the a.m. peak of 7:00 a.m. to 9:00 a.m. and p.m. peak of 4:00 p.m. to 6:00 p.m.:

- Hallandale Beach Boulevard and NE 8<sup>th</sup> Avenue- Signalized
- Hallandale Beach Boulevard and NE 10<sup>th</sup> Avenue- Signalized
- Hallandale Beach Boulevard and NE 12<sup>th</sup> Avenue- Unsignalized
- Hallandale Beach Boulevard and NE 14<sup>th</sup> Avenue- Signalized
- Hallandale Beach Boulevard and NE 16<sup>th</sup> Avenue- Unsignalized
- Hallandale Beach Boulevard and Layne Boulevard- Signalized
- Hallandale Beach Boulevard and Golden Isles Drive- Signalized
- Golden Isles Drive and Diana Drive- Unsignalized
- Church Street and Layne Boulevard- Unsignalized
- Church Street and Golden Isles Drive- Unsignalized
- Hallandale Beach Boulevard and Diplomat Parkway- Signalized
- Hallandale Beach Boulevard and Three Islands Boulevard- Signalized
- Hallandale Beach Boulevard and SE 26<sup>th</sup> Ave- Unsignalized
- SE 26<sup>th</sup> Ave. and Diana Drive- Unsignalized

In addition to the MTMC's, 24-hour tube counts will be utilized from the FDOT Florida Traffic Information DVD where necessary.

Crash data for the previous three-years will be obtained from the City of Hallandale Beach Police Department or the Broward County Sheriff's Department.

Traffic signal timings for these intersections will be available from the Broward County Traffic Engineering Division for use in intersection analyses.

**FEE: Lump Sum of \$5,000.00**

**Task 3**

**Traffic Analysis** – Consultant shall compile the above traffic data to analyze the segment of Hallandale Beach Boulevard between US-1 and A1A using *Synchro Version 7* and HCS for the existing (2009) and future (2019) roadway geometry. A 10-year projection will be used to analyze future conditions, which will be determined from a historical growth rate provided by the Florida Department of Transportation. FDOT Quality/Level-of-Service Tables will be used to analyze the performance of the segment as a whole for the analysis scenarios. The analysis will include determining the advantages and disadvantages of two geometric/access management options at specific intersections along Hallandale Beach Boulevard identified at the pre-application meetings with FDOT and BCTED. This includes the intersections of Hallandale Beach Boulevard with Golden Isles Drive and Diplomat Parkway. This traffic analysis will include signal progression analysis to determine impacts associated with the NE 8<sup>th</sup> Avenue and NE 10<sup>th</sup> Avenue conversions from one way to two way operations.

In addition, Consultant shall analyze crash data collected as part of Task II and identify predominant crash patterns in the area. Consultant shall also perform a qualitative review of the impacts created by implementing geometric/access management options. This includes the diversion of traffic to adjacent streets and similar impacts, the evaluation of eliminating midblock cross walks and the review of protected versus permitted signal timing phasing at the signalized intersections.

**FEE: Lump Sum of \$19,750.00**

**Task 4**

**Corridor Study Summary Report** – The results of the above tasks will be summarized in report format with all necessary tables, figures, and appendices. The report shall summarize the findings and present recommendations through an implementation plan for the project segment of Hallandale Beach Boulevard.

Recommendations may include evaluation of signal operation plan revisions (i.e. permissive versus protected) at signalized intersections, modification from full signal to half signal operation, elimination of mid-block crosswalk signals, median/access management modifications and

intersection resigning concepts per FDOT. Client shall be provided with five (5) copies of the final report.

**FEE: Lump Sum of \$6,900.00**

### **MISCELLANEOUS TASKS**

**Task 5 Meeting Attendance and Client Coordination** - Consultant shall attend up to four (4) meetings and provide miscellaneous services at the direction of Client on an hourly basis. These services shall be rendered up to the hourly not to exceed fee specified below. Services beyond this fee shall be rendered as an additional service. This task includes one (1) kick-off meeting with City staff and two (2) additional pre-application meetings with the City, BCTED and FDOT to discuss the corridor study traffic methodology and feasibility of the conversion of NE 8<sup>th</sup> Avenue and NE 10<sup>th</sup> Avenue from one way to two way roadway facilities.

**FEE: Hourly not to exceed (NTE) \$4,000.00.**

**Task 6 Reimbursable Expenses** - Consultant shall provide services, as necessary, to assist Client in the preparation of documents, coordination or other requested tasks to facilitate successful completion of the Project. Costs incurred in providing these services shall be reimbursed in accordance with the General Conditions. For this Project an initial budget of \$1,000.00 in reimbursable expenses shall be established. This budget may be increased upon Client authorization.

**FEE: Per the attached Rate Schedule. Initial Budget of \$1,000.00.**

<b>FEE SUMMARY</b>			
<b>TASK NUMBER</b>	<b>TASK</b>	<b>LUMP SUM FEE</b>	<b>HOURLY NTE FEE</b>
<b>CIVIL/TRANSPORTATION ENGINEERING TASKS</b>			
Task 1	NE 10 <sup>th</sup> Avenue Roadway and Intersection Construction Documents-Document Preparation/Government Permitting	\$13,300.00	
Task 2	Traffic Data Collection	\$5,000.00	
Task 3	Traffic Analysis	\$19,750.00	
Task 4	Corridor Study Summary Report	\$6,900.00	
	<b>Civil/Transportation Engineering Tasks subtotal</b>	<b>\$44,950.00</b>	
<b>MISCELLANEOUS TASKS</b>			
Task 5	Meeting Attendance and Client Coordination		\$4,000.00
	<b>Miscellaneous Services subtotal</b>		<b>\$4,000.00</b>
<b>REIMBURSABLE EXPENSES</b>			
Task 6	Reimbursable Expenses		\$1,000.00
	<b>Reimbursable Expenses subtotal</b>		<b>\$1,000.00</b>
<b>TOTAL FEE</b>		<b>\$44,950.00</b>	<b>\$5,000.00</b>

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