Memorandum

To: Miles Moss, P.E., Chairperson, Project and Financial Review Committee and Members, Citizens' Independent Transportation Trust (CITT)

From: Charles Scurr, Executive Director

Date: June 10, 2016

Re: Amendment to a Contract between Miami-Dade County and Kimley-Horn for the People's Transportation Plan Project Entitled Advanced Traffic Management System Increasing the Contract Amount by $3,850,000 and the Contract Term by an Additional Five Years; and Authorizing the Use of Charter County Transportation Surtax Funds for Such Purposes

The attached item was prepared by the Department of Transportation and Public Works (DTPW). **The Surtax impact is $3,850,000.00.**

The attached item is the fourth (4) amendment to the contract between Miami-Dade County (MDC) and Kimley-Horn and Associates (KHA) to increase the contract amount by $3,850,000.00 and extending the contract for an additional five (5) years to provide advanced software capabilities, links to external systems, system integration, and continued software maintenance and support services for the countywide Advanced Traffic Management System Project (ATMS).

With the approval of this Amendment, KHA will perform the tasks highlighted in Exhibit A, which include: Expansion of System Functionality, Software Support and Maintenance Services, Engineering Support Services, and Continued System Integration Support/Program Management Support. This will support DTPW's ongoing efforts to improve signal synchronization and mobility throughout the County.

The Amendment is for $3,850,000.00 and would increase the total contract amount to $18,910,000.00. Funding is available from Charter County Transportation Surtax 2010 Bond Proceeds and Road Impact Fees. This is an approved project and is referenced on page 67 of the FY 2015 Five Year Implementation Plan of the People's Transportation Plan

This item is scheduled for the June 15, 2016, Transit and Mobility Services Committee agenda, and is scheduled for the July 6, 2016, agenda of the Board of County Commissioners (BCC). If action is taken at the Transportation Trust Committee, this item will appear on the June 16, 2016 CITT Full Trust agenda.

If you have any questions, or need additional information, please do not hesitate to contact me.

c: Alina Hudak, Deputy Mayor/County Manager
Bruce Libhaber, Assistant County Attorney

RESOLUTION NO.

RESOLUTION BY THE CITIZENS' INDEPENDENT TRANSPORTATION TRUST (CITT) RECOMMENDING THAT THE BOARD OF COUNTY COMMISSIONERS (BCC), APPROVE AN AMENDMENT TO AN EXISTING CONTRACT (CONTRACT NO. 20050189) BETWEEN MIAMI-DADE COUNTY AND KIMLEY-HORN AND ASSOCIATES TO PROVIDE ADDITIONAL FUNDING IN THE AMOUNT OF $3,850,000.00 FOR THE PEOPLE'S TRANSPORTATION PLAN (PTP) PROJECT ENTITLED ADVANCED TRAFFIC MANAGEMENT SYSTEM (ATMS); AUTHORIZING THE COUNTY MAYOR OR COUNTY MAYOR'S DESIGNEE TO EXERCISE THE PROVISIONS THEREIN; AND AUTHORIZING THE USE OF CHARTER COUNTY TRANSPORTATION SURTAX FUNDS

WHEREAS, the CITT desires to accomplish the purposes outlined in the accompanying OCITT Executive Director's memorandum, a copy of which is incorporated herein by reference,

NOW, THEREFORE, BE IT RESOLVED BY THE CITT, that this Trust recommends to the Board of County Commissioners (BCC), the approval of a contract amendment of the existing contract (Contract No. 20050189) between Miami-Dade County and Kimley-Horn and Associates providing additional funding in the amount of $ 3,850,000.00 for the People's Transportation Plan (PTP) Project Entitled Advanced Traffic Management System (ATMS); authorizing the County Mayor or County Mayor's Designee to exercise the provisions therein, and authorizing the use of Charter County Transportation Surtax Funds, as outlined in the corresponding document in substantially the form attached hereto and made a part hereof.

The foregoing resolution was offered by , who moved its adoption. The motion was seconded by and upon being put to vote, the vote was as follows:

Paul J. Schwiep, Esq., Chairperson
Hon. Anna E. Ward, Ph.D., 1st Vice Chairperson
Glenn J. Downing, CFP®, 2nd Vice Chairperson

Oscar Braynon	Joseph Curbelo
Peter L. Forrest	Alfred J. Holzman
Prakash Kumar	Jonathan Martinez
Alicia Menardy, Esq.	Miles E. Moss, P.E.
Hon. James A. Reeder	Marilyn Smith
Hon. Linda Zilber	

The Chairman thereupon declared the resolution duly passed and adopted this day of 2016.

Approved by the County Attorney as to form and legal sufficiency_____

By: _____
Executive Director

CITT MEMBER REVIEW FORM

Contract No. 20050189-AMEND4

1. **Item Name:** Amendment to a Contract Between MDC and Kimley-Horn for the PTP Project Entitled ATMS Increasing the Contract Amount and the Contract Term by an Additional Five Years

2. **Item/Contract Amt:** $3,850,000.00
   Transit AMT: $0.00
   PTP AMT: $3,850,000.00
   Other:

3. **Department:** DTPW/PW

4. **Project Category:** Major Highway and Road Improvements
   Project Type: ATMS
   Project/Contract Timeline: (If applicable) 5 years

5. **District(s):** (If applicable) Countywide

6. **Scheduling and Comments:**

COMMITTEE	DATE	COMMENTS
Joint SFP and PFR Committee	6/16/2016	
Community Outreach		
CITT Board	6/16/2016	
BCC Meeting	7/6/2016	

7. **BCC Approved:** No **If Yes Date:**

8. **Review:**

	Yes	No	N/A
Project included in 5-Year Implementation Plan	☑	☐	
If no, amendment item Included	☐	☐	☑
Operation (unification) Contract	☐	☐	☑
Budgeted Item	☑	☐	☐
Time Sensitive	☐	☑	☐
Competitive process used (If applicable)	☑	☐	☐
Timeline/Term of Contract (If applicable)	☑	☐	☐
Contract measures for CSBE, CBE, SBE or DBE (If applicable)	☐	☐	☐
Project is in a residential or commercial area or both (If applicable, circle one)	☑	☐	☐
Public Involvement Plan (PIP) included	☐	☐	☑

283743

AGENDA REVIEW FORM

Please process the attached agenda item for the Committee and/or BCC agenda(s) as indicated below.

Department: Department of Transportation and Public Works

Consent Agenda: ☐ Yes ☒ No
(If "Yes" and requires matching funds, the Mayor's memo should include a statement that the matching funds are properly budgeted as determined by OMB.)

RECEIVED
MAY 19 2016
Alina T. Hudak
OFFICE OF THE MAYOR

Requires Committee Review: ☒ Yes ☐ No

Preferred BCC Agenda Date: 06/07/2016

Requires Municipal Notification: ☐ Yes ☒ No

Public Hearing Required: ☐ Yes ☒ No If yes, is public hearing at ☐ BCC ☐ Cmte
(Please attach a copy of advertisement as proof that item has been or will be advertised as a public hearing.)

Special Effective Date Language in Resolution: ☐ Yes ☒ No
(If "Yes", a brief statement explaining why the item must have special language should be included in the Mayor's memo.)

List Attachment(s): Mayor's Memo, Resolution, Exhibit, Agreement

County Attorney's Review:

☐ Item is subject to BCC sponsorship and is approved as to form and legal sufficiency.
☒ Item is not subject to BCC sponsorship and is approved as to form and legal sufficiency.

If any changes are made to this document, those changes must be approved by the County Attorney's Office.

Bruce Libhaber
Asst. County Attorney
(Print name)

Bruce Libhaber 5/19/16
Asst. County Attorney **Date**
(Signature)

Commissioner Sponsor:
(To be provided by Department/DM)

Approved – Department Director **Date**

Approved – County Executive Office **Date**

RECEIVED
MAY 23 2016
CITT

Memorandum

MIAMI-DADE COUNTY

Date:

To: Honorable Chairman Jean Monestime
and Members, Board of County Commissioners

From: Carlos A. Gimenez
Mayor

Subject: Amendment to a Contract between Miami-Dade County and Kimley-Horn for the People's Transportation Plan Project Entitled Advanced Traffic Management System Increasing the Contract Amount by $3,850,000 and the Contract Term by an Additional Five Years; and Authorizing the Use of Charter County Transportation Surtax Funds for Such Purposes

RECOMMENDATION

It is recommended that the Board of County Commissioners (Board) approve the attached resolution approving a Legacy Purchase pursuant to Section 2-8.1(b)(2) of the Code of Miami-Dade County (County) and authorizing Amendment No. 4 to a contract between the County and Kimley-Horn (KHA), increasing the contract amount by $3,850,000.00 and extending the contract for an additional five (5) years to provide advanced software capabilities, links to external systems, system integration, and continued software maintenance and support services for the countywide Advanced Traffic Management System Project (ATMS). This project is funded in part through the Charter County Transportation Surtax; therefore, approval by the Board and the Citizens' Independent Transportation Trust (CITT) is required.

SCOPE

This project is countywide. The ATMS is listed in Exhibit 1 of the PTP Ordinance under Major Highway and Roadway Improvement Projects.

FISCAL IMPACT/FUNDING SOURCE

The original contract award of $9 million was approved by the Board on July 7, 2005 through Resolution R-876-05. This amount was increased by $2,160,000.00 under Amendment #1, approved by the Board on January 21, 2010 through Resolution R-42-10, and by $3,900,000.00 under Amendment #2, approved by the Board on January 26, 2012 through Resolution R-97-12. This amendment would increase the contract's total compensation to $18,910,000.00. Funding is available from Charter County Transportation Surtax 2010 Bond Proceeds and Road Impact Fees as programmed within the Department of Transportation and Public Works (DTPW) Multi-Year Capital Budget (Fiscal Year 2015-16 Adopted Capital Project No. 608400). There are no recurring operation or maintenance costs anticipated through the amendment of this agreement.

DELEGATION OF AUTHORITY

No additional authority is being requested within the body of this contract.

TRACK RECORD/MONITOR

The County is supervising, monitoring, and inspecting all aspects of the ATMS's implementation, deployment, and administration. Frank Aira, P.E., Chief of the Traffic Signals and Signs Division within DTPW, is responsible for this project.

BACKGROUND

Traffic Control or Traffic Management Systems are powerful tools for traffic engineers to effectively and efficiently manage and coordinate traffic signals allowing for a more efficient use of an existing roadway's capacity. The goal of coordinating traffic signals is to create a progression of vehicle platoons through a corridor at the prevailing speed, and have the traffic signals "cascade" in sequence so that the platoons do not need to stop or slow down. In November 2002, as part of the People's Transportation Plan, the voters of the County approved the development and implementation of a new and modern Traffic Management System to replace the Urban Traffic Control System (UTCS) implemented in 1975. In 2004, DTPW determined that identifying and purchasing a product that was already successfully operating in a major metropolitan area over a period of a few years would be the most practical and expeditious approach. As a result, DTPW conducted an extensive study of existing traffic management system products including: reviewing responses to a Request for Information, lengthy telephone interviews, and field-visits to jurisdictions around the country with similar systems already installed. Based on DTPW's findings, the system known as KITS, developed and owned by KHA, was determined to be the best system available.

On July 7, 2005, the Board adopted Resolution No. R-876-05 authorizing a contract with KHA to replace the obsolete UTCS with a modern ATMS platform, and to migrate all of the County's traffic signals to the new system. The new ATMS allows the County to control all 2,870 existing traffic signals with capacity to grow up to 4,000 traffic signals. The system allows for more flexible signal programming, allowing for timing plans to accommodate time of day and day of week patterns, and for the implementation of special event plans. The new ATMS project was scheduled to begin in two (2) initial phases. Phase I was the pilot test of the system at 16 signalized intersections. Phase II consisted of the deployment of the system to the remaining 2,605 traffic signals existing at that time, and the implementation of a new traffic signal communication system. These initial phases of the ATMS project have been completed. To date, the County has invested nearly $44 million upgrading the existing traffic signals and traffic management systems.

As the County continues to grow, traffic congestion will remain a major challenge. Without the expansion of roadways or implementation of mass transit solutions, the best opportunity for improving traffic mobility is through continued improvement to the traffic signal systems. Traffic signals and management systems have experienced an explosion of technological improvements in the last five (5) years, with many new technologies like adaptive traffic signal controls and connected vehicles still emerging and evolving. DTPW's Traffic Signals and Signs Division, and the County's Information Technology Department (ITD) are continually reviewing and researching these new technologies with the goal of implementing the next generation of technology that will serve the County well into the next decade. Included in the implementation of a Congestion cameras, and other sensors that will allow Traffic Engineers to monitor traffic, gauge travel time and congestion, and make slight timing modifications in real time to reduce delays for travelers. Additionally, DTPW, ITD, and our transportation partners - Florida Department of Transportation (FDOT), Miami-Dade Expressway Authority (MDX), and Florida's Turnpike Enterprise (FTE) - continue to implement the next generation of traffic controls to provide adaptive and more efficient tools to address traffic congestion problems. With the approval of this Amendment, KHA will perform the tasks highlighted in Exhibit A, which will support DTPW's ongoing efforts to improve signal synchronization and mobility throughout the County.

Under Resolution No. R-612-14, the Board approved Amendment #3 extending the contract for two (2) years beyond the original contract period and the two (2), two-year options to renew, on July 1, 2014 This fourth and final contract amendment provides the County with the ability to introduce new technologies and traffic management tools while maintaining and updating the KITS system for up to the next five (5) years.

Alina T. Hudak
Deputy Mayor

Exhibit A

The primary task groups under this amendment are as follows.

Expansion of System Functionality
Kimley-Horn (KHA) will provide services to add new functionality to the operational Advanced Traffic Management System (ATMS) to provide enhanced capabilities and incorporate new technologies such as the use of smart phones for collection of travel time data. These capabilities will enhance the Department of Transportation and Public Works' (DTPW) staff efficiency in analyzing and updating timing plans. Additionally, in collaboration with the Florida Department of Transportation, Miami-Dade County is in the process of implementing various congestion management tools and technologies, including express bus operation based on transit signal priority along the most congested corridors.

Software Support and Maintenance Services
Technology improvements seen over the past ten (10) years include the development of sophisticated traffic modeling software. This third party software is widely used, including by Miami-Dade County, to evaluate and develop new signal timing plans. This amendment provides for the development of an interface between the ATMS, and third party software, to improve the data exchange between traffic system database and modeling programs. Another important feature to integrate is KITS Mobile to allow for mobile access to KITS by County Engineers. These interfaces will lead to increased staff efficiency in sharing timing information, and collaborating with other county groups and other consultants. Similarly, interfaces may also be developed for additional devices such as Bluetooth detectors. This task group also includes ongoing software support and maintenance.

Engineering Support Services
Under Federal Highway Authority guidelines, in order to qualify for Federal Funding agencies are required to develop System Engineering Management Plans and a Concept of Operations for transportation projects. DTPW is partnering with FDOT to develop the appropriate System Engineering documents to ensure that congestion management projects remain eligible for funding opportunities. Included within this amendment is an option to have KHA develop System Engineering Management Plans as needed. Other engineering support tasks may also be requested such as recommendations for advanced controllers and detectors.

Continued System Integration Support / Program Management Support
The amendment extends KHA's services to provide for ongoing system integration, and program management support during the extension period. Assignments in this task group may include integration with ATMS of school zone flashers, roadside speed feedback signs, controller cabinet power status, Miami-Dade County's enterprise asset management system, development of a Traffic Control Center backup plan, construction support for field device installation, and knowledge transfer to DTPW staff.

Approved _____ Mayor Agenda Item No.
Veto _____
Override _____

RESOLUTION NO. _____

RESOLUTION APPROVING A LEGACY PURCHASE PURSUANT TO SECTION 2-8.1(b)(2) OF THE CODE OF MIAMI-DADE COUNTY AND AUTHORIZING EXECUTION OF A FOURTH AMENDMENT TO AN EXISTING CONTRACT BETWEEN MIAMI-DADE COUNTY AND KIMLEY-HORN AND ASSOCIATES TO PROVIDE ADDITIONAL FUNDING IN THE AMOUNT OF $3,850,000.00 AND AN ADDITIONAL 5 YEAR PERIOD FOR THE PEOPLE'S TRANSPORTATION PLAN PROJECT ENTITLED ADVANCED TRAFFIC MANAGEMENT SYSTEM; AND AUTHORIZING THE USE OF CHARTER COUNTY TRANSPORTATION SURTAX FUNDS FOR SUCH PURPOSES

WHEREAS, this Board desires to accomplish the purposes outlined in the accompanying memorandum, a copy of which is incorporated herein by reference; and

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that this Board approves a legacy purchase and this fourth contract amendment of the contract between Miami-Dade County and Kimley-Horn and Associates providing additional funding in the amount of $3,850,000.00 and an additional five (5) years for the continued support, maintenance, and enhancement of the Advanced Traffic Management System, in substantially the form attached hereto and made a part hereof; authorizes the County Mayor or County Mayor's designee to execute same for and on behalf of Miami-Dade County and to exercise the provisions contained therein; and authorizes the use of Charter County Transportation Surtax Funds for such purposes.

The foregoing was offered by Commissioner who moved its adoption. The motion was seconded by Commissioner and upon being put to a vote, the vote was as follows:

Jean Monestime, Chairman
Esteban L. Bovo, Jr., Vice-Chair

Bruno A. Barreiro	Daniella Levine Cava
Jose "Pepe" Diaz	Audrey M. Edmonson
Juan C. Zapata	Barbara J. Jordan
Sally A. Heyman	Dennis C. Moss
Rebeca Sosa	Xavier L. Suarez
Sen. Javier D. Souto	

The Chairperson thereupon declared the resolution duly passed and adopted this , of , 2016. This resolution shall become effective upon the earlier of (1) ten (10) days after the date of its adoption unless vetoed by the Mayor, and if vetoed, shall become effective only upon an override by this Board, or (2) approval by the County Mayor of this Resolution and the filing of this approval with the Clerk of the Board.

MIAMI-DADE COUNTY, FLORIDA
BY ITS BOARD OF
COUNTY COMMISSIONERS

HARVEY RUVIN, CLERK

By: _____
Deputy Clerk

Approved by County Attorney as
to form and legal sufficiency. _____

AMENDMENT NO. 4 TO THE MIAMI-DADE COUNTY ATMS SYSTEM INTEGRATOR CONTRACT

This Amendment No. 4 to the contract is made and entered into this _____ day of _____,20____, by and between Miami-Dade County, a political subdivision of the State of Florida, hereinafter referred to as the "COUNTY," and KIMLEY-HORN AND ASSOCIATES, INC., hereinafter referred to as the "SYSTEM INTEGRATOR".

WITNESSETH:

WHEREAS, pursuant to Resolution No. R-876-05 approved by the Board of County Commissioners on July 07, 2005, the parties hereto entered into a Contract retaining the SYSTEM INTEGRATOR for the provision, installation, and implementation of a new Advanced Traffic Management System (ATMS), and providing a maximum compensation of $9,000.000.00 for all professional services required during the implementation of the current phase of the project and a contract period of five (5) years and authorized the Director to extend this Agreement on a bi-annual basis for up to two (2) additional two-year periods;

WHEREAS, pursuant to Resolution No. R-42-10 approved by the Board of County Commissioners on January 21, 2010, the parties hereto entered into a Contract amendment extending the SYSTEM INTEGRATOR contract by two years to allow for the continued provision, installation, and implementation of the new Advanced Traffic Management System (ATMS), and providing for a maximum compensation of

$11,160.000.00 for all professional services required during the implementation of the current phase of the project;

WHEREAS, pursuant to Resolution No. R-97-12 approved by the Board of County Commissioners on January 24, 2012, the parties hereto entered into a Contract amendment extending the SYSTEM INTEGRATOR contract by two years to allow for the continued provision, installation, and implementation of the new Advanced Traffic Management System (ATMS), and providing for a maximum compensation of $15,145,000.00 for all professional services required during the implementation of the current phase of the project;

WHEREAS, pursuant to Resolution No. R-612-14 approved by the Board of County Commissioners on July 1, 2014, the parties hereto entered into a Contract amendment extending the SYSTEM INTEGRATOR contract by two years to allow for the continued provision, installation, and implementation of the new Advanced Traffic Management System (ATMS);

WHEREAS, the County requires for the SYSTEM INTEGRATOR to provide continued system and operations support, project management, software updates, additional system functionality, integration with new equipment and systems, etc. these additional services being described in the accompanying memorandum, a copy of which is incorporated herein by reference;

WHEREAS, the successful completion of these additional services requires additional contract capacity in the amount of $3,850,000.00;

WHEREAS, the original contract was for a period of five (5) years and authorized the Director to extend this Agreement on a bi-annual basis for up to two (2) additional two-year periods;

WHEREAS, Amendment 3 authorized this Agreement to remain in full force and effect for a period of eleven (11) years from the original date of execution or until

depletion of the funds allocated to pay for the cost of said services, whichever occurs first, and authorized the Director to extend in writing prior to the applicable expiration date, if funding remains, or if additional funding becomes available, this Agreement is for an additional five-year period;

WHEREAS, Amendment 2 amended Exhibit D- Category Billing Rates within the original contract to freeze to the annual escalation provision;

NOW, THEREFORE, in consideration of the mutual desires of the parties hereto, the following modifications are made to the aforementioned Agreement:

SECTION V – COMPENSATION

Subsection E. Maximum Compensation

Shall read as follows:

Both parties agree that compensation will only be made for work specifically authorized in writing by the COUNTY. The total of all fee payments to the SYSTEM INTEGRATOR under this Agreement shall not exceed $18,910,000.00. The COUNTY at its discretion may supplement this amount with additional funds as required.

SECTION XVIII - DURATION OF AGREEMENT

Shall read as follows:

This Agreement shall remain in full force and effect for a period of sixteen (16) years from the original date of execution or until depletion of the funds allocated to pay for the cost of said services, whichever occurs first.

EXHIBIT D- CATEGORY BILLING RATES

Is deleted in its entirety and replaced with the new Exhibit D attached

In all other respects, except as amended by this Amendment and by Amendment 1; the original Agreement shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF the parties hereto have caused this Second Amendment to the Contract to be executed by their appropriate officials as of the date first entered above.

ATTEST:

HARVEY RUVIN
CLERK OF THE BOARD

BY: _____
Deputy Clerk

MIAMI-DADE COUNTY, FLORIDA,
BY ITS BOARD OF
COUNTY COMMISSIONERS

BY: _____
County Mayor or County Mayor's Designee

Approved by County Attorney
as to form and legal sufficiency _____
County Attorney

ATTEST:

By: _____

KIMLEY-HORN AND ASSOCIATES, INC.
a Corporation authorized to transact
business in Florida

By: _____
(K. K. SAXENA)

(CORPORATE SEAL)

EXHIBIT D- CATEGORY BILLING RATES

Miami-Dade County ATMS
System Integrator Contract
Amendment 4

Category Billing Rates

	Negotiated Hourly Billing Rate
Analyst / Technical Support	$ 93.18
CADD Designer	$113.12
Program Manger	$314.77
Project Manager	$232.92
Software Programmer	$126.44
Senior Software Programmer	$166.37
Senior Systems Specialist / Senior Engineer	$173.04
Support Staff	$ 73.20
Systems Specialist / Systems Engineer	$119.78

These billing rates are effective for the FDOT Fiscal year 2016-2017. Escalation of 2% annually will be applicable for each successive FDOT Fiscal year.