

RESOLUTION No. 25-272

A RESOLUTION OF THE MAYOR AND THE CITY COUNCIL OF THE CITY OF DORAL, FLORIDA, PURSUANT TO SECTION 2-323 OF THE CITY'S CODE OF ORDINANCES, APPROVING A PROFESSIONAL SERVICES AGREEMENT WITH XYGO USA INC., IN SUBSTANTIALLY THE FORM PROVIDED; TO PROVIDE A 3D DIGITAL TWIN MODEL OF THE CITY'S PUBLIC RIGHT-OF-WAY, WHICH WILL ALLOW THE PUBLIC WORKS DEPARTMENT TO DIGITALLY IDENTIFY, ANALYZE, AND MANAGE RIGHT-OF-WAY ANOMALIES, FOR A TWO (2) YEAR PERIOD WITH THE OPTION TO RENEW FOR AN ADDITIONAL ONE (1) YEAR TERM UNDER THE SAME TERMS AND CONDITIONS, IN AN AMOUNT NOT TO EXCEED ANNUAL BUDGETED FUNDS; AUTHORIZING THE CITY MANAGER TO TRANSFER ONE HUNDRED THOUSAND (\$100,000.00) FROM ACCOUNT No. 101.80005.500633 TO ACCOUNT No. 101.80005.500340, TO PROVIDE SUFFICIENT FUNDING FOR THIS REQUEST; PROVIDING FOR IMPLEMENTATION; PROVIDING FOR INCORPORATION OF RECITALS; AND PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, the City of Doral (the "City") Public Works Department ("PWD") is continuously looking for ways to improve services, efficiency and proactiveness to provide the best possible level of service to the community; and

WHEREAS, in December 2021, XYGO USA Inc. (XYGO) approached PWD to offer their services for a complete 3D digital twin survey package that would allow for the detection, quantification, and measurements of right-of-way anomalies through a Digital Twin – Point Cloud Analysis, which can provide measurements of up to 2 cm of accuracy; and

WHEREAS, these services allow for an automated survey and analysis of the public right-of-way, and the creation of a GIS based 3D model of the environment through Lidar technology; and

WHEREAS, the data and information acquired is used for the issuance of work orders through the XYGO system that helps organize, schedule, track, and budget to address the identified anomalies; and

WHEREAS, on August 9, 2023, the Mayor and the City Councilmember adopted Resolution No. 23-130 authorizing a one-year pilot program with XYGO; and

WHEREAS, the services included the development of a 3D digital twin model applied to the detection of cracks and unevenness along the ground, specifically along the sidewalks, that result from tree roots intrusion and/or other causes; and

WHEREAS, the digital twin model is created through a survey performed with lidar sensors, 360 degrees high resolution images, and the Digital Twin platform for its detection and analysis; and

WHEREAS, the Digital Twin platform can also be used to carry out other inspections in a systematic and automated way, such as determining street lighting that is in poor condition or is not working, and creating a street sign inventory; and

WHEREAS, the this program allows the PWD to proactively identify, record, analyze, and address potential tripping hazards along the public sidewalks without having the need to walk the entire City's infrastructure, and the program allows for a more proactive approach rather than a reactive one; and

WHEREAS, the Pilot program was performed on a center-line mile basis and expired in September of 2023; and

WHEREAS, at the request of the PWD, XYGO provided the attached proposal to continue providing the services mentioned; and

WHEREAS, XYGO is a sole source provider as approved by the Procurement & Asset Management Department on May 27, 2023; and

WHEREAS, on September 2, 2025, the Procurement & Asset Management Department issued a Public Notice of Sole Source Procurement for the services mentioned to confirm XYGO is still a sole source and no one else provides all the included services in one process, and the City received no responses by the Response Deadline of September 17, 2025; and

WHEREAS, the City Staff respectfully requests the Mayor and the City Councilmembers to authorize the City Manager to enter into a two (2) year contract with XYGO USA Inc. with the option to renew for an additional one (1) year term under the same terms and conditions, pursuant to Sec. 2-323 of the City Code, in an amount not to exceed annual budgeted funds; and

WHEREAS, the PWD respectfully requests authorization for the City Manager to transfer \$100,000.00 from Account No. 101.80005.500633 to Account No. 101.80005.500340 to provide sufficient funding for these services in the current Fiscal Year.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND THE CITY COUNCIL OF THE CITY OF DORAL AS FOLLOWS:

Section 1. Recitals. The above recitals are confirmed, adopted, and incorporated herein and made part hereof by this reference.

Section 2. Approval. The Professional Service Agreement between the City and XYGO USA Inc. to provide a 3D Digital Twin Model of the city's public right-of-way for a two (2) year period with the option to renew for an additional one (1) one-year (1) period under the same terms, conditions, and costs of the contract, in an amount not to exceed budgeted funds, and the transfer of \$100,000.00 from Account No. 101.80005.500633 to Account No. 101.80005.500340 to provide sufficient funding for these services in the current Fiscal Year, are hereby approved.

Section 3. Authorization. The City Manager is authorized to execute the Contract Agreement, transfer the funds, and issue work orders and expend budgeted funds on the behalf of the City.

Section 4. Implementation. The City Manager and the City Attorney are hereby authorized to take such further action as may be necessary to implement the purpose and the provisions of this Resolution.

Section 5. Effective Date. This Resolution shall take effect immediately upon adoption.

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

Mayor Christi Fraga	Yes
Vice Mayor Digna Cabral	Yes
Councilman Rafael Pineyro	Yes
Councilwoman Maureen Porras	Yes
Councilwoman Nicole Reinoso	Yes

PASSED AND ADOPTED this 12 day of November, 2025.




CHRISTI FRAGA, MAYOR

ATTEST:



CONNIE DIAZ, MMC
CITY CLERK

APPROVED AS TO FORM AND LEGAL SUFFICIENCY
FOR THE USE AND RELIANCE OF THE CITY OF DORAL ONLY:



LORENZO COBIELLA
GASTESI, LOPEZ, MESTRE & COBIELLA, PLLC
CITY ATTORNEY