

Adopted by the IPTC Board

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INTRODUCTION & OVERVIEW

In November 2016, nearly 60 percent of Marion County voters cast ballots in favor of adopting a 0.25 percent income tax dedicated to fund transit improvements. This transit levy was subsequently enacted by the Indianapolis-Marion County City-County Council in February 2017. The resources derived from this tax will support IndyGo's on-going capital investment program, which includes the implementation and operation of the Marion County Transit Plan (Transit Plan). The Transit Plan is a component of *IndyConnect*, Central Indiana's Regional Transit Plan, which was originally developed by the Indianapolis Metropolitan Planning Organization (IMPO), Indianapolis Public Transportation Corporation (dba IndyGo), and the Central Indiana Regional Transportation Authority (CIRTA).

The Transit Plan calls for IndyGo to *expand the frequency and hours of service for its fixed-route local network, construct and operate three new bus rapid transit lines, and change the orientation of its network from a hub-and-spoke network to a connected grid network*. The strategic framework for these changes was developed as part of IndyGo's *IndyGo Forward* Comprehensive Operational Analysis, which was to be fully implemented by 2022.

This Capital Plan serves as a roadmap to implementing the Transit Plan, which is part of IndyGo's larger capital investment program. It provides a forecast of planned local revenue and expenditures based on currently available information. IndyGo maintains this plan by revisiting its assumptions and projections as capital projects are implemented, recognizing when revenue is realized, and/or inserting additional information as it becomes available.

This plan was initially presented to and adopted by the IPTC Board of Directors on December 7, 2017. At that time, it became a "living document," meaning that it would be updated regularly as revenue is realized and projects are advanced. It was last adopted on August 28, 2020 following the August 20, 2020 adoption of the IndyGo's 5-year Capital Budget Summary. Prepared annually, this plan is a companion document to the 5-year Capital Budget Summary. It is the 5-year Capital Budget Summary – not this guidance document – that ultimately governs how much the agency is prepared to spend on capital expenses in any given year.

How to Use This Plan

To effectively operate the increased local service and three bus rapid transit corridors, and to provide for a highly functioning transit system overall, several capital investments are necessary. These investments include capital expenditures within the following key areas:

- **Fleet:** The addition and replacement of IndyGo vehicles and equipment to increase the reliability and operational efficiency of IndyGo's fleet and equipment to service and maintain the fleet.
- **Bus Rapid Transit and other On-Street Infrastructure:** On-street infrastructure investments associated with bus rapid transit, fixed-route bus stops, and shelters.
- **Facilities:** Expansion, renovation, repair, and maintenance of IndyGo facilities to house IndyGo employees across divisions to support the efficient execution of their job responsibilities.
- **Information Technology:** Addition and/or replacement information technology and other administrative systems to promote a modern, high-functioning workplace.
- Safety & Security: Safety/security equipment and enhancements.
- **Finance:** The modernization and upkeep of IndyGo's fare collection system.

To implement this plan, update financial forecasts and annual operating budgets, and prioritize and coordinate numerous capital investments, a five-year capital investment budget was first created in 2017. This tool was a joint effort of the finance and capital projects & planning divisions, with input from departments across the agency. That plan was presented and adopted by the IPTC Board of Directors on December 7, 2017 and updated in March 2018.

As part of the planning for the 2018 annual operational budgeting process, a decision was reached to update IndyGo's five-year capital plan budget on a rolling basis. As such, version 1.0 of this document—IndyGo's 2019-2025 Capital Plan—reflected a new five-year capital budget that incorporated the latest project costs and local revenue estimates and extended the planning horizon to 2024 (and into 2025 to capture all the Blue Line Rapid Transit capital expenditures).

Like previous versions of this document, this version (v3.0) summarizes and organizes the figures that, together, make up the entirety of IndyGo's current capital investment program. Included are detailed descriptions of IndyGo's funding sources and uses of the agency's capital funds. *This document is a guidance document and is intended to serve as a benchmark for projecting, prioritizing, and programming capital expenditures from year to year. In addition, it serves as a roadmap to fully expand the frequency and hours of service of IndyGo's fixed-route local network; construct and operate three new bus rapid transit line; and change the orientation of IndyGo's transit network from a hub-and-spoke network to a connected grid network. From time-to-time, this document can also be used to support the pursuit of additional funding requests to finance capital expenditures.*

This plan is organized into the following sections:

- The Annual Summaries section provides a comprehensive overview of the entire capital investment program, as well as a summary-level annual breakdown of anticipated local revenue and expenditures.
- The **Funding Sources** section provides information on the sources of funding expected to be programmed toward capital expenditures through FY 2026.
- The **Capital Expenditures** section provides an explanation of the total expenditure, an anticipated cost for each expenditure, and the anticipated funding source(s) for each capital investment project.
- Annual Itemized Expenditure Tables section provides an itemized quarterly table of expenditures for each year, sorted by category of cost. As of this update, the annual itemized expenditure tables have become placeholders to record actual expenditures.

Recap Summary

Version 1.0 of this plan illustrated a need for \$552,215,682 in total capital expenditures between 2019 and 2025 to fully implement the Transit Plan. In 2020, it was determined that total capital expenditures would be \$599,816,899 for the same period and towards the same end goal. This increase of \$47.6 million (eight percent) over the initial budget was due in large part to a correction to the methodology used to capture the total outlay - not just the debt service payment - for future rolling stock purchases (see Fixed Route Bus Replacement on the following pages), and the need to purchase more buses than had originally been programmed. Beginning in 2021, IndyGo pivoted to acquiring new fixed-route buses through bond issuances, as opposed to leasing agreements.

Total capital expenditures for 2019 and 2020 were \$46,550,436 and \$30,342,369, respectively. As of August 31, 2021, IndyGo has expended less than 34 percent (\$27,592,563) of its \$83,251,679 2021 budget. Total capital expenditures between 2022 and 2025 is anticipated to be \$520,557,077. All told, the total capital expenditures needed to fully implement the Transit Plan is now more than \$625 million. This increase of more than \$72.8 million is due in large part to the additional facility procurements and a greater expenditure need for 40' and battery electric 60' articulated coaches. Each of these needs is described further on the following pages.

Revision History

Table 1, Version Control Table, will be updated with any changes to this document and better enable IndyGo to track versions of this document over time. The numbering conventions associated with the version control table will be as follows:

- Whole numbers will reflect the incorporation of substantial changes made to the sources and/or uses of capital funds and/or with updates following the adoption of IndyGo's annual budget.
- Incremental updates (tracked by decimal numbers) will reflect minor changes made between these more substantial changes.
- Entries for minor changes may be removed from the version control table upon the adoption of a new major changes.
- The Date of Revision is the date that this document was revised
- The Date of Budget refers to the date that the IndyGo Board of Directors adopted the Capital Plan Budget Summary, upon which the revisions to this document are based.

Table 1. Version Control Table	Tak	ole :	1. I	/ersi	ion (Cont	trol	Tal	ble
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Version	Purpose of Change	Date of Revision	Date of Budget Adoption	Author
1.0	Adopted by the IPTC Board	08/28/2019	08/28/2019	John Marron
2.0	Adopted by the IPTC Board	12/03/2020	08/20/2020	Brooke Thomas
3.0	Adopted by the IPTC Board	10/28/2021	08/28/2021	Brooke Thomas

Summary of Recent Changes

Below is a summary of the substantive changes that were made between versions 2.0 (December 2020) and 3.0 (October 2021).

- Both the total capital investment project budget and timeline have been updated/adjusted to respond
 to internal investment decisions and external factors that have caused one or more assumptions to
 change since the fall of 2020 when the capital plan was last updated.
- The summary pages for each year have been updated to describe what has been accomplished since
 the December 2020 Capital Plan update, and to set priorities for the next four years. These pages
 highlight instances where projects that were programmed for a given year have been placed on hold
 or postponed.
- The description of each funding source was reviewed for accuracy and, where necessary, updated to reflect the current status.
- The description of each capital project has been updated to reflect the current status.
- New projects have been added to the Capital Plan and include both projects that are programmed into IndyGo's fiscally constrained capital budget for 2022 through 2026, and illustrative projects. Illustrative projects are those that IndyGo needs or wants to advance, but for which there currently isn't funding for. All large capital investment projects are described in detail throughout the Capital Plan document.

ANNUAL SUMMARIES

IndyGo's Capital Plan serves as the agency's roadmap for major investment in transit and transit-supporting infrastructure. At a minimum, these investments will include expenditures associated with fleet expansion and replacement, investments in bus rapid transit, enhancements to other on-street infrastructure, renovation, and maintenance of all IndyGo facilities, technological upgrades and enhancements, fare modernization, and safety and security upgrades and enhancements. The purpose of this plan is to coordinate these expenditures with expected sources of funding for the purposes of timing these investments in such a way as to maintain adequate and acceptable cash flow for the agency.

To that end, the Annual Summary Table on the following page shows the annual breakdown of planned expenditures and expected funding sources. The annual summary is intended to serve as a resource for the development of more detailed capital budgets for each upcoming year through FY 2026. Note that this plan now extends beyond the 5-year planning horizon for the capital investment strategy that was set in motion in 2017.

As in years past, anticipated expenditures have been developed through a process jointly coordinated by IndyGo's finance and capital projects divisions and reflects the input of divisions and departments throughout IndyGo. Individual expenditures and anticipated funding sources are described in greater detail in subsequent sections of this document.

The timing of individual expenditures reflects a planning effort that sought to examine the interrelationship of planned projects and IndyGo's operational needs, as suggested by each division and matching those needs with anticipated funding. As such, the following tables reflect a prioritization of budgeted and planned capital expenditures across the entire agency. IndyGo will continue to monitor sources of anticipated local revenue and the need for the expenditures, adjusting this plan as needed.

Table 2. Annual Summary Table, 2020 - 2026

	20	20	202	21						
Capital Project	Final Budget	Actual as of 12/31/2020	Final Budget	Actual as of 8/31/2021	2022	2023	2024	2025	2026	5-Yr Total (2022-2026)
Expenditures	\$97,709,667	\$30,342,369	\$83,251,679	\$27,592,563	\$111,705,850	\$116,497,041	\$122,874,909	\$107,691,314	\$61,787,963	\$520,557,077
BRT & On-Street Infrastructure	\$70,196,000	\$9,332,550	\$52,033,998	\$3,781,247	\$70,937,450	\$74,567,800	\$104,437,865	\$89,500,000	\$42,061,000	\$ 381,504,115
Facilities	\$8,785,000	\$2,600,143	\$3,985,000	\$2,546,182	\$22,834,250	\$738,000	\$365,000	\$22,500	\$0	\$ 23,959,750
Finance ¹	\$225,000	\$846,641	\$392,375	\$128,436	\$382,500	\$390,150	\$397,953	\$0	\$0	\$1,170,603
Fleet	\$13,451,667	\$16,809,146	\$24,645,306	\$16,848,470	\$15,997,000	\$31,906,091	\$17,649,091	\$18,148,814	\$19,706,963	\$103,407,959
Information Technology	\$2,489,000	\$359,417	\$1,975,000	\$776,803	\$1,527,000	\$8,895,000	\$25,000	\$20,000	\$20,000	\$10,487,000
Safety & Security	\$2,563,000	\$394,472	\$220,000	\$1,548,017	\$27,650	\$0	\$0	\$0	\$0	\$27,650
Funding Sources	\$97,709,666	\$30,342,369	\$83,251,679	\$27,592,563	\$111,705,850	\$116,497,041	\$122,874,909	\$107,691,314	\$ 61,787,963	\$520,557,077
Grants	\$56,007,828	\$10,581,867	\$34,914,427	\$15,021,633	\$45,433,986	\$53,816,091	\$ 23,486,246	\$ 17,348,965	\$ 18,944,621	\$159,029,909
Local (cash)	\$26,715,453	\$15,934,787	\$18,719,545	\$11,357,059	\$36,484,824	\$39,963,950	\$ 99,388,663	\$ 90,342,349	\$ 42,843,342	\$309,023,128
Bonds (debt)	\$13,786,385	\$3,825,715	\$29,430,090	\$1,213,871	\$29,787,040	\$22,717,000	\$0	\$0	\$0	\$52,504,040
Other	\$1,200,000	\$0	\$187,617	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Expected Capital Surplus	(\$0)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Table 2.1, Annual Summary Table, 2019 on the following page compares 2019 expenditures for Q3 and Q4 with what had been budgeted for 2019 in 2019.

¹ Formerly Public Affairs.

Table 2.1 Annual Summary Table, 2019

	Q3/Q4	2019	Difference			
Capital Project	Final Budget	Actual as of 12/31/2019	\$ (Budget-Actual)	% Change (over / under budget)		
Expenditures	\$48,880,682	\$46,550,436	\$2,330,246	4.8%		
Bus Rolling Stock	\$8,806,000	\$8,068,186	\$737,814	8.4%		
On-Street Inf. & BRT	\$29,036,682	\$34,529,401	(\$5,492,719)	(18.9%)		
Facilities & Equipment	\$5,440,000	\$2,954,671	\$2,485,329	45.7%		
Information Technology	\$4,533,000	\$739,279	\$3,793,721	83.7%		
Public Affairs	\$170,000	\$55,245	\$145,755	85.7%		
Safety & Security	\$895,000	\$203,654	\$691,346	77.2%		
Funding Sources	\$48,880,681	\$46,550,436	\$2,330,245	4.8%		
Grants	\$26,213,846	\$31,172,262,	(\$4,958,416)	(18.9%)		
Local (cash)	\$18,887,532	\$12,148,131	\$6,739,401	35.7%		
Bonds (debt)	\$3,779,303	\$3,230,042	\$549,261	14.5%		
Other	\$0	\$0	\$0	0%		
Expected Capital Surplus	(\$1)	\$0	(\$1)	-		

3Q/4Q 2019 CAPITAL PROJECTS: \$48.9 MILLION

Anticipated

The second half of 2019 resulted in the advancement of the first of the substantial capital projects related to the implementation of the Transit Plan, including the construction of the Red Line bus rapid transit corridor. Most of the planned expenditures for the remainder of that year were associated with on-street infrastructure and bus rapid transit projects. Final payments towards the completion of the Red Line construction comprise the largest share of these investments. In 2019, a total of \$29.0 million was allocated to on-street infrastructure improvements and bus rapid transit projects.

IndyGo had anticipated investing an additional \$8.8 million in fleet and related projects, \$5.4 million to be invested in facilities projects, and \$4.5 million in information technology projects. It was further anticipated that Safety and Security and Public Affairs expenditures, when combined, would be just over \$1 million (see Table 3), that the majority (54 percent) of programmed expenditures were to have been funded through grants received through the Federal Transit Administration (FTA) and complemented by IndyGo's local revenue (cash). IndyGo had also expected to spend resources from the \$26 million bond approved in 2018.



Final

By the end of 2019, a total of \$34.5 million was spent constructing on-street infrastructure improvements and bus rapid transit projects. An additional \$8.1 million went towards fleet replacement projects, approximately \$3 million for facilities projects, and just under \$740,000 in information technology projects. This brought total expenditures for Q3/Q4 2019 to \$46.6 million, which was \$2.3 million under budget for the year. By December 31, 2019, 67 percent of programmed expenditures were funded through grants received through the FTA, with the remaining \$15.4 million split between cash (\$12.15 million, 26 percent) and bonds (\$3.23 million, seven percent).

Table 3. 3Q/4Q 2019 Capital Projects

Funding Courses	Q3		Q	4	Q3/Q4 Total		
Funding Sources	Final Budget	Actual	Final Budget	Actual	Final Budget	Actual	
Grants	\$17,745,940	\$23,107,179	\$8,467,907	\$8,065,083	\$26,213,846	\$31,172,262	
Local (cash)	\$13,594,671	\$7,478,977	\$5,292,861	\$4,669,154	\$18,887,532	\$12,148,131	
Bonds (debt)	\$1,195,071	\$1,457,599	\$2,584,232	\$1,772,443	\$3,779,303	\$3,230,042	
Other	\$0	\$0	\$0	\$0	\$0	\$0	
Total Funding Sources	\$32,535,682	\$32,043,756	\$16,345,000	\$14,506,680	\$48,880,681	\$46,550,436	
Company districts	Q3		Q	4	Q3/Q4 Total		
Expenditures	Final Budget	Actual	Final Budget	Actual	Final Budget	Actual	
Bus Rolling Stock	\$8,806,000	\$7,980,320	\$0	\$87,866	\$8,806,000	\$8,068,186	
On-Street Infrastructure & BRT	\$17,561,682	\$23,263,254	\$11,475,000	\$11,266,147	\$29,036,682	\$34,529,401	
Facilities and Equipment	\$3,075,000	\$360,260	\$2,365,000	\$2,594,411	\$5,440,000	\$2,954,671	
Information Technology	\$2,473,000	\$374,338	\$2,060,000	\$364,941	\$4,533,000	\$739,279	
Public Affairs	\$170,000	\$55,245	\$0	\$0	\$170,000	\$55,245	
Safety, Security, and Training	\$450,000	\$10,339	\$445,000	\$193,315	\$895,000	\$203,654	
Total Expenditures	\$32,535,682	\$32,043,756	\$16,345,000	\$14,506,680	\$48,880,682	\$46,550,436 ²	

While the total amount for expenditures came in close to what was initially budgeted for Q3 & Q4 of 2019, only the fleet project expenses aligned with what had been budgeted. This is largely due to budget rollovers from 2019 to 2020. For example, \$1.2 million was rolled from 2019 into 2020 to complete the vehicle wash and paint booth project in 2020, rather than in 2019 as planned.

2020 CAPITAL PROJECTS: \$97.7 MILLION

Anticipated

Substantial renovations and enhancements to IndyGo's facilities have been underway since 2019. In 2019, the largest facilities project programmed for 2020 was the construction of a training and contingency facility, followed by maintenance area renovations at IndyGo's main facility. Facility investments were (and still are) needed to account for the increase in both IndyGo's staff and fleet sizes; both of which are necessary to deliver the Transit Plan. In 2019, IndyGo had also programmed \$2.6 million for safety and security upgrades, and \$2.5 million for information technology/finance. Fifty-seven percent of programmed expenditures were to have been paid for with grant dollars.

Facility investments became even more important in the first quarter of 2020 when IndyGo mobilized to respond to the COVID-19 pandemic. Bids for the training and contingency facility came in over budget by more than \$2 million dollars; therefore, the project was subsequently put on hold. Maintenance area renovation projects were broken out into several smaller projects; many of which were completed that same year. Available capital funding can account for many of these new projects, but not all of them.

By January 2020, IndyGo had acquired 31 60' electric buses to operate within its Red Line and Purple Line BRT network. Due Lower-than-expected battery range on the newly acquired electric buses and delays in mitigating these impacts caused these buses to be completely allocated to the Red Line. IndyGo has worked to update the agency's fleet needs to reflect this unknown, among others. After reviewing the planned operational profile for both remaining rapid transit lines during 2020 budget preparations, IndyGo anticipated needing to purchase more 60' battery electric vehicles to operate service than had originally been estimated. In 2020, it was also assumed that IndyGo would need an additional 20 and 30 battery electric buses beyond what had original been estimated to operate the for both the Purple and Blue bus rapid transit lines. By updating these projections, IndyGo now has several different options to choose from when it comes to fleet replacement (all rolling stock). For example, in the

future, IndyGo could reallocate some of its programmed capital expenditures to swap out the replacement of 40' buses in its fixed-route fleet to purchase additional 60' buses.

In all, 71.8 percent (\$70.2 million) of 2020 capital expenditures were targeted for on-street infrastructure and bus rapid transit projects, while less than 10 percent (\$8.8 million) was thought to be needed to address facility needs that same year (refer to the table on the following page).



Final

The Purple Line design activities continued through the end of 2020, and the Blue Line design was put on hold temporarily. Actual expenditures for building on-street infrastructure and bus rapid transit projects in 2020 totaled \$9.3 million, which ended up being just 30 percent of total planned expenditures for the year. Another 9.3 percent (\$1.74 million) had been spent to address facility needs. This included the unplanned purchase of the property located at 6410 N College Avenue. This property acquisition, which IndyGo needed to construct a permanent end of the line charging location for the Red Line bus rapid transit route, caused many of the planned facility projects for 1501 W Washington Street location to be put on hold (see also Facilities on the following pages). Actual expenditures for facilities in 2020 was \$2,600,143, which was under budget by more than \$6.2 million. This is due in large part to the decision to not pursue full buildout of the training/contingency facility that would have been located at the former Carrier Bryant site, electing to not move forward with the solar array expansion, and electing to not move forward with the CTC lounge and office renovation projects as planned. Actual expenditures for safety and security upgrades and information technology/finance in 2020 was \$394,472 and \$1,206,058, respectively. Grant funds covered just \$278,663 of these expenses. All other expenses were paid for with local revenue (cash). Actual expenditures for maintenance area renovations and the training and contingency facility in 2020 were \$33,628 and \$74,266, respectively. Design activities for the Blue Line bus rapid transit route were temporarily placed on hold.

Table 4: 2020 Capital Projects

20	2020 Capital Projects							
Capital Project	Final Budget	Actual as of 12/31/2020	\$ (Budget-Actual)	% Change (over / under budget)				
Expenditures	\$97,709,667	\$30,342,369	\$67,367,298	69%				
BRT & On-Street Infrastructure	\$70,196,000	\$9,332,550	\$60,863,450	87%				
Facilities	\$8,785,000	\$2,600,143	\$6,184,857	70%				
Finance ³	\$225,000	\$846,641	(\$621,641)	(276%)				
Fleet	\$13,451,667	\$16,809,146	(\$3,357,479)	(23%)				
Information Technology	\$2,489,000	\$359,417	\$2,129,583	86%				
Safety & Security	\$2,563,000	\$394,472	\$2,168,528	85%				
Funding Sources	\$97,709,666	\$30,342,369	\$67,367,297	69%				
Grants	\$56,007,828	\$10,581,867	\$45,425,961	81%				
Local (cash)	\$26,715,453	\$15,934,787	\$10,780,666	40%				
Bonds (debt)	\$13,786,385	\$3,825,715	\$9,960,670	72%				
Other	\$1,200,000	\$0	\$1,200,000	100%				
Expected Capital Surplus	(-\$1)	\$0	\$0	-				

³ Formerly Public Affairs.

2021 CAPITAL PROJECTS: \$83.2 MILLION

Anticipated (Then)

In 2019 and 2020, IndyGo had expected to continue its robust investment in the bus rapid transit network and onstreet infrastructure into 2021. The 30th Street conversion to a two-way street between Meridian Street and Capitol Avenue, which will better enable transfers between Route 30 and the Red Line, was also expected to get underway in 2021.



In 2019, investments in on-street infrastructure and bus rapid transit represented 87 percent (\$62.8 million) of the \$72.2 million in planned capital expenditures. In 2020, IndyGo increased the 2021 budget amount by \$11.1 million, bringing the total for the year to more than \$83.3 million. This increase was a direct result of a correction in the methodology used to capture the total outlay - not just the debt service payment - for future fleet purchases (see Fixed Route Bus Replacement on the following pages), and the need to purchase more buses than had originally been programmed. This correlates to

investments in on-street infrastructure and bus rapid transit representing approximately 63 percent (\$52 million) of the \$83.3 million in planned capital expenditures for the year.

IndyGo had further anticipated investments in its fixed route fleet, paratransit fleet, BRT bus docking technology, and heavy maintenance equipment in 2021. It was anticipated that investments in fleet and the facility located at 1501 W Washington Street would represent an additional \$5.3 million and \$3.7 million in planned expenditures, respectively. Grant resources were expected to fund 53.7 percent of planned expenditures, with the balance coming mostly from IndyGo local revenue and bonds. The conversion of 30th Street, facilities planning and construction, and investments in the fixed route fleet were expected to continue as planned. However, in 2020, facility projects that had initially been programmed in 2021 for the agency's main facility located at 1501 W Washington Street were indefinitely put on hold while the agency determined how best to meet its facility needs.

In 2020, IndyGo also agreed to contribute \$2.15 million of total capital expenditures for 2021 to the City of Indianapolis, Department of Public Works, for the construction of the 30th Street conversion project (ST-17-052). The BRT bus docking technology project was removed, and investments in the fixed route fleet, paratransit fleet, and maintenance heavy equipment were expected to total \$24.2 million. Grant resources were expected to fund 42 percent of planned expenditures, with the balance coming mostly from IndyGo local revenue and bonds. Included in the \$83.3 million capital budget adopted for 2021 was the purchase of 27 hybrid buses in Q4 2021. These buses were (and still are) needed to replace buses that are outside of their useful life and to provide additional service delivery to the community. Design activities to extend the Red Line north and south to the county lines were postponed until 2022, at the earliest.

Now

The 2021 state legislative session, when combined with the real-world impacts of the on-going pandemic, caused the construction of the Purple Line to be delayed to the first quarter of 2022; however, IndyGo has resumed design activities for the Blue Line bus rapid transit route. Design for the 30th Street conversion project is currently underway; however, construction isn't expected to begin until 2023. It was determined by IndyGo staff that, by delaying this work by a year, the agency could focus 2022 resources on the advancement of capital projects that are of a time sensitive nature. Design for the Red Line extensions remains on hold.

As of August 31, 2021, IndyGo has invested \$3.78 million in BRT and other on-street infrastructure improvements, which is less than eight percent of the total budget for the year. As of this update, IndyGo has received 22 hybrid electric buses; totaling more than \$17.5 million. The agency has spent \$593,656 on paratransit vehicles, and another \$67,597 for heavy maintenance equipment, bringing the total thus far to \$16.8 million. This is approximately \$7.8 million less than what was budgeted. By the end of 2021, IndyGo will have received the three remaining hybrid buses. Together these buses total \$798,000. IndyGo is more than \$1.3 million over its \$220,000 budget for Safety & Security. This is due in large part to vehicle CCTV replacement. The agency is also more than half a million over budget for facilities. This is due in large part to the acquisition, design, and construction of new facilities.

Table 5. 2021 Capital Projects

Funding Sources ⁴		Rev. Budget				
	Q1	Q2	Q3	Q4	Total	
Grants	\$92,037	\$1,201,129	\$968,163		\$2,261,329	\$34,914,427
Local (cash)	\$2,757,021	\$3,937,202	\$1,572,326		\$8,266,549	\$18,719,545
Bonds (debt)	\$457,366	\$16,467,476	\$139,844		\$17,064,687	\$29,430,090
Other	\$0	\$0	\$0		\$0	\$187,617
Total Funding Amount	\$3,306,424	\$21,605,807	\$2,680,333		\$27,592,563	\$83,521,679
Expenditures		Rev. Budget				
	Q1	Q2	Q3	Q4	Total	J
Fleet	\$0	\$16,161,839	\$640,131		\$16,801,970	\$24,645,306
BRT & Other On-Street Infrastructure	\$1,111,726	\$1,584,079	\$1,085,442		\$3,781,247	\$52,033,998
Facilities	\$1,874,903	\$2,364,823	\$316,364		\$4,556,090	\$3,985,000
Information Technology	\$313,510	\$198,546	\$264,747		\$776,803	\$1,975,000
Finance	\$0	\$62,596	\$65,840		\$128,436	\$392,375
Safety & Security	\$6,285	\$1,233,923	\$307,809		\$1,548,017	\$220,000
Total Expenditures	\$3,306,424	\$21,605,807	\$2,680,333		\$27,592,563	\$83,251,679

⁴ It was originally anticipated that IndyGo's new hybrids would be funded by federal grant dollars (approximately \$14 million) before the recent bond issuance. These figures reflect the fact that IndyGo's capital expenses are being reimbursed – 100% -- from bond funds, rather than grant dollars. Total grant reimbursements for Q2 are primarily for vehicle CCTV replacement.

2022 CAPITAL PROJECTS: \$111.71. MILLION

Then

In 2019, a total of \$89.0 million in 2022 expenditures was thought to be needed to advance the construction of onstreet infrastructure and bus rapid transit facilities in 2022, which would have been 93.0 percent of IndyGo's total planned capital expenditures for the year (\$95.6 million). Most of these expenses (\$85.9 million or 97 percent) were to have gone towards advancing the Purple and Blue bus rapid transit routes. The remaining expenditures allocated in 2019 for 2022 were for on-going fleet replacement (\$4.75 million) and to retrofit the downtown transit center to accommodate level boarding. A substantial portion of programmed expenditures for 2022 was to have been grantfunded (65.7 percent), with the balance from the IndyGo capital fund and bonds.

In 2020, IndyGo increased total expenditures for 2022 from \$95.6 million to \$109.9 million, again due primarily to a correction in the methodology used to capture the total outlay - not just the debt service payment – for future fleet purchases (see Fixed Route Bus Replacement on the following pages), and the need to purchase more buses than had originally been programmed. It was anticipated that a total of \$97.3 million in expenditures, or 89 percent of IndyGo's total planned capital expenditures for 2022, would be needed to advance the construction of on-street infrastructure and bus rapid transit facilities (see Table 6). At that time, \$94.2 million (86 percent) of the revised 2022 budget was allocated to advancing the Purple and Blue Lines. An additional \$12.1 million (11 percent) was allocated to fixed route and paratransit fleet replacement. The \$1.7 million needed to retrofit the downtown transit center to accommodate level boarding was delayed until 2023.

Now

As of this update, it is anticipated that IndyGo will need a total of \$111,705,850 for capital expenditures in 2022. The 2022 budget for facilities has increased from \$0 to \$22.8 million. This is due in large part to the design and construction work taking place at IndyGo's new East Campus location. The budget for information technology and finance has



been increased from \$0 to \$1.5 million, and \$382,500, respectively. This is due in large part to the replacement of vehicle on-board, closed-circuit television (CCTV) equipment. An additional \$3,612,581 has been added to the \$12.4 million needed to expand and maintain IndyGo's fleet. This is due to the need to add additional support vehicle, paratransit, and fixed-route vehicles. The amount of money budgeted for BRT and other on-street infrastructure decreased from \$97.3 million to \$70.9 million. This is due in large part to the shift in the future timeline of the Purple and Blue Line BRT projects as both investments continue to get pushed out. The budget for safety and

security was reduced by \$202,350 and now totals \$27,650. This is due in large part to the reclassification of the vehicle CCTV replacement project as a safety and security investment to an information technology investment.

Table 6. 2022 Capital Projects

Funding Sources			Actuals			Dov. Dudget
Funding Sources	Q1	Q2	Q3	Q4	Total	Rev. Budget
Grants						\$45,433,986
Local (cash)						\$36,484,824
Bonds (debt)						\$29,787,040
Other						\$0
Total Funding Amount						\$111,705,850
Expenditures		Rev. Budget				
Experiarcis	Q1	Q2	Q3	Q4	Total	Nev. Buuget
Fleet						\$15,997,000
BRT & Other On-Street Infrastructure						\$70,937,450
Facilities						\$22,834,250
Information Technology						\$1,527,000
Finance						\$382,500
Safety & Security						\$27,650
Total Expenditures						\$111,705,850

2023 CAPITAL PROJECTS: \$116.5 MILLION

Then

In 2019, IndyGo had anticipated paying for all final expenditures associated with the Purple Line project in 2023. In 2019, it was assumed that these on-street infrastructure and bus rapid transit projects would represent more than 96 percent (\$114.7 million) of total programmed expenditures for 2023 (\$120.1 million). In 2020, it was assumed that on-street infrastructure and bus rapid transit projects would represent just 88 percent (\$101.6 million) of total programmed expenditures for 2023 (\$114.9 million).

Between 2019 and 2020, total planned capital expenditures for 2023 decreased from \$120.1 million to \$114.9 million. This was due in large part to a delay in the start of the planned Red Line extensions. By 2020, IndyGo no longer anticipated that 51.5 percent of capital expenditures would be funded through grants. Instead, it was thought that approximately 40 percent of capital expenditures would be funded by grants, the balance still being paid by a mix of bonds (19 percent), cash (26 percent), and other local sources (14 percent).



Now

The year 2023 no longer represents the year with the largest sum of anticipated expenditures within the planning horizon for this capital program; this is likely to occur in 2024. This is due in large part to delays in the construction of the Purple and Blue bus rapid transit projects. Final expenditures for the construction of the Purple Line bus rapid transit project are now expected to carry over into 2024.

As of this update, total planned capital expenditures for 2023 have increased from \$114.9 million to \$116.5 million, which is still \$3.6 million less than the original \$120.1 million budgeted in 2019. This, again, is due in large part to the delay in the start of the planned Red Line extensions (See BRT: Red Line Rapid Transit (Phases II & III) on the following pages). It is anticipated that IndyGo will need to spend significantly more on its fleet (\$31.9 million as opposed to \$13 million) in 2023 than the agency has intended to in 2020. Despite needing to continue to invest in facilities, information technology, and finance at a level that had not been anticipated in 2019, and the need to include an additional \$1.7 million in on-street infrastructure and BRT capital expenditures in 2023 to account for the need to retrofit the CTC to include level boarding and in-ground charging in advance of the Purple Line BRT route entering into revenue service and construct the South Madison Street Park-n-Ride (\$1.85 million in 2023; \$2.2 million total), the 2023 budget for BRT and other on-street infrastructure has been reduced from \$101.6 million to \$74.6 million. This is due in large part to an increase in total expenditures resulting from the delay to 2024. It is now anticipated that, in 2023, \$5.7 million will be spent on the Blue Line and another \$6.5 million will go towards DPW's

conversion of 30th Street and Michigan Street to two-way thoroughfares. It is further anticipated that in 2023 just 46 percent of capital expenditures will be paid for with grant dollars. 34 percent will come from cash and the remaining 20 percent from bonds. 2023 no longer includes other sources of funding. These were tax increment finance dollars for the construction of the Blue Line had it moved forward in 2023.

Table 7. 2023 Capital Projects

Funding Sources	Actuals					
	Q1	Q2	Q3	Q4	Total	Rev. Budget
Grants						\$53,816,091
Local (cash)						\$39,963,950
Bonds (debt)						\$22,717,000
Other						\$0
Total Funding Amount						\$116,497,041
Expenditures		Rev. Budget				
Experialtures	Q1	Q2	Q3	Q4	Total	Kev. Buuget
Fleet						\$31,906,091
BRT & Other On-Street Infrastructure						\$74,567,800
Facilities						\$738,000
Information Technology						\$8,895,000
Finance						\$390,150
Safety & Security						\$0
Total Expenditures						\$116,497,041

2024 CAPITAL PROJECTS: \$122.9 MILLION

Then

In what was originally the final full year of this capital investment program, IndyGo had anticipated advancing the Blue Line and Red Line extension bus rapid transit projects through 2024 (and into the first part of 2025). In 2019, the majority of 2024 expenditures (\$71 million or 77 percent) were targeted towards the construction of the Blue Line. In 2019, IndyGo had also anticipated purchasing eleven 60,' all electric vehicles, at a cost of nearly \$1 million each. 55 percent of the expenditures in 2024 were to be grant reimbursable.



Due to a delay in the start of the Red Line extensions projects, total planned capital expenditures between 2019 and 2020 increased over \$20 million. This was due to a delay in the start of the Red Line extensions project. In early 2020, IndyGo anticipated needing to receive delivery of 36 sixty-foot buses for the Blue Line BRT line by 2024), which is six more buses than the agency's 2019 estimate. In 2019, the agency also anticipated needing to replace eleven forty-foot buses in 2024. This number remained the same between 2019 and 2020.

Now

As of this update, total capital expenditures for 2024 is \$122,874,909, which is \$9.7 million more than the \$113.2 million budget established in 2020. This is due in large part to fleet needs (\$17.6 million) and the construction of both the Purple Line (\$10 million in 2024) and Blue Line (\$86.85 million in 2024) bus rapid transit corridors. It is further anticipated that IndyGo will move forward with the completion of the Rural Street Underpass project (\$4.9 million in 2024; \$6.61 million total).

See also BRT: Red Line Rapid Transit (Phases II & III) on the following pages.

Table 8. 2024 Capital Projects

Funding Sources						
	Q1	Q2	Q3	Q4	Total	Rev. Budget
Grants						\$ 23,486,246
Local (cash)						\$ 99,388,663
Bonds (debt)						\$0
Other						\$0
Total Funding Amount						\$122,874,909
E 10						
Expenditures	Q1	Q2	Q3	Q4	Total	Rev. Budget
Fleet						\$17,649,091
BRT & Other On-Street Infrastructure						\$104,437,865
Facilities						\$365,000
Information Technology						\$25,000
Finance						\$397,953
Safety & Security						\$0
Total Expenditures						\$122,874,909

2025 CAPITAL PROJECTS: \$107.7 MILLION

Then

In 2019, it was anticipated that IndyGo would realize the Marion County Transit Plan by completing all major capital investment projects by the first half of 2025. However, due to the delays related to the design and construction of the Blue Line bus rapid transit route, total capital expenditures for 2025 is now at \$31.9 million an increase of \$7.2 million from 2019.

Now

As of this update, investments of more than \$89.5 million to advance BRT and other onstreet infrastructure improvements, and



more than \$18 million to meet the agency's fleet needs. BRT and other on-street infrastructure expenditures will be primarily for the Blue Line BRT bus rapid transit project (\$86.9 million). The remainder of these investments are targeted for Transit Stop Amenities (approx. \$1 million). Investments in IndyGo's fleet will include\$16.3 million for fixed-route bus replacement and expansion, \$1.55 million for paratransit bus replacement, and \$300,000 for support vehicle replacement. (See also BRT: Red Line Rapid Transit (Phases II & III) on the following pages.

Table 9. 2025 Capital Projects

Funding Sources		David David David				
	Q1	Q2	Q3	Q4	Total	Rev. Budget
Grants						\$ 17,348,965
Local (cash)						\$ 90,342,349
Bonds (debt)						\$0
Other						\$0
Total Funding Amount						\$107,691,314
Expenditures	Actuals					Pov. Pudget
Experiultures	Q1	Q2	Q3	Q4	Total	Rev. Budget
Fleet						\$18,148,814
BRT & Other On-Street Infrastructure						\$89,500,000
Facilities						\$22,500
Information Technology						\$20,000
Finance						\$0
Safety & Security						\$0
Total Expenditures						\$107,691,314

2026 CAPITAL PROJECTS: \$61.8 MILLION

Now

In 2021, the planning horizon for this plan was extended from 2025 to 2026. Planned capital expenses for 2026 are estimated to be \$61,787,963. Like 2025, this is due in large part to the need to continue investments in BRT and other on-street infrastructure improvements (\$42.1 million in 2026) and the agency's fleet (\$19.7 million). The BRT and other on-street infrastructure investments are limited to the Blue Line bus rapid transit corridor (\$38,961,000), Transit Stop Amenities (approximately \$1 million). Investments in IndyGo's fleet will include \$17.9 million for fixed-route bus replacement and expansion, \$1.55 million for paratransit bus replacement, and \$250,000 for support vehicle replacement. Funding is expected to be 31 percent (\$18.9 million) in grant dollars and the remaining 69 percent (\$42.8 million) from local revenue. (See also BRT: Red Line Rapid Transit (Phases II & III) on the following pages.

Table 10. 2026 Capital Projects

Funding Sources	Actuals					
	Q1	Q2	Q3	Q4	Total	Budget
Grants						\$ 18,944,621
Local (cash)						\$ 42,843,342
Bonds (debt)						\$0
Other						\$0
Total Funding Amount						\$61,787,963
Funandia	Actuals					
Expenditures	Q1	Q2	Q3	Q4	Total	Budget
Fleet						\$19,706,963
BRT & Other On-Street Infrastructure						\$42,061,000
Facilities						\$0
Information Technology						\$20,000
Finance						\$0
Safety & Security						\$0
Total Expenditures						\$61,787,963

FUNDING SOURCES

IndyGo's capital investment projects are funded primarily by competitive and non-competitive (formula-based) grants, bonds, and local revenue (cash). Non-farebox revenue funds such as Section 5307 Urbanized Area Funding are provided to IndyGo based on federal formulas, as established by Congress in federal surface transportation bills and confirmed through annual appropriations. Conversely, the Section 5309 program is a competitive program designed to fund major capital projects. To be awarded a Section 5309 grant, an eligible applicant must submit a successful application and meet several project development milestones before accessing the eligible funds.

In addition to these sources of federal funds, IndyGo has received financial support from the City of Indianapolis' Department of Public Works (DPW) and the Metropolitan Development Commission (MDC). More specifically, MDC has committed resources from the Consolidated Downtown and Airport tax increment finance (TIF) districts for the Red Line and Blue Line, respectively.

Each of IndyGo's funding sources are described in greater detail throughout this section. The following table outlines the relationship between grant numbers and their original funding sources. These grant numbers are used throughout the funding sources and uses tables in the Capital Expenditures section of this document; thus, pairing each capital project with specific funding sources. Use this table to cross reference the sources and uses tables with the table below to identify the original funding source.

5307 Formula	5309 Small Starts	5339 Formula	5339 Competitive	5310 Formula	CMAQ / STBG (TA, NEPA, IT)	STBG
IN-2016-024-11.42.06 (Acquire Shop Equipment)	Small Starts (Red)	FY 2020	Solar Array Low No	FY 2021	IN-2016-016- 11.42.08 (Software)	IN95X046- 11.42.08 (Hardware)
IN-2017-018-11.42.06 (Acquire Shop Equipment)	Small Starts (Purple)	FY 2021		FY 2022	IN-2016-016- 11.71.03 (Project Management)	IN95X046- 11.42.08 (Project Mgmt. – Disaster Recovery)
IN-2019-001-11.12.15 (Facility)	Small Starts (Blue)	FY 2022		FY 2023	2020 CMAQ – TSP	2020 STP – Fleet Replacement
IN-2021-023-11.44.03 (Facility)		FY 2023		FY 2024	2023 STP/CMAQ (Red Line Ext.)	2021 STP – Fleet Replacement
IN-2021-023-11.42.20 (Training Simulators)		FY 2024		FY 2025	2024 STP/CMAQ (Bus Replacement)	
IN-2021-046-Purple Line		FY 2025		FY 2026		
5307 Security Set Asides						

GRANTS

FTA Urbanized Area Formula Grants (Section 5307/Section 5340)

In the State of Indiana, the Indiana Department of Transportation (INDOT) is the designated recipient for Section 5307 for small, urbanized areas whose population is between 50,000 and 199,999. FTA Section 5307 resources are non-competitive federal funds allocated to transit providers in urbanized areas throughout the United States, which is defined as a U.S. Census-designated area with a population of 50,000 or more as determined by the U.S. Department of Commerce, Bureau of the Census. This program makes Federal resources available to urbanized

areas for transit capital and operating assistance, and for transportation-related planning activities within an urbanized area. Section 5307 funding is apportioned based on a legislative formula. For areas with a population of more than 200,000, the formula is based on a combination of bus revenue vehicle miles, bus passenger miles, fixed guideway revenue miles, fixed guideway route miles, and population and population density.

FTA Section 5340, Growing States/High Density Section funding is combined with Section 5307 funding when distributed to designated recipients. Section 5340 is formula funding. In FY2020, the Growing States funding level for the nation was approximately \$300 million. The formula is apportioned based on the growth of the state where the transit agency is located and then the urbanized area's share of the state's urbanized areas. For the purposes of this plan, Section 5340 is combined with Section 5307 and not discussed or identified separately.

For larger transit agencies – those that operate more than 100 buses – Section 5307 funds are to be used for capital improvements only because operating expenses aren't eligible for reimbursement. IndyGo operates approximately 200 buses in peak service, and thus is prohibited from using Section 5307 funds for operating expenses. Another limitation of this program, the Federal share cannot exceed 80 percent of the net project cost, which means that recipients must come up with a minimum of 20 percent of the total project cost locally. Funds allocated under this program are made available in the year they are appropriated and remain available for five years thereafter.

In 2020, it was anticipated that \$26.2 million in 5307 program dollars would be available to IndyGo to support capital projects between 2021 and 2025 (see Table 12). This amount did not include 5307 formula funds required to be used for security purposes (i.e. Security Set Asides). IndyGo is required to set aside one percent of the total appropriation to support transit security projects. As of this update, IndyGo anticipates expending approximately \$3.5 million to \$5 million from FY2021 to FY2026 on capital projects using Section 5307 funding.

Like other jurisdictional boundaries, the urbanized area boundary is a function of changes in population and will often change over time. In 2017, as part of the Coordinated Public Transit and Human Services Plan for Central Indiana, an audit of trips in the Indianapolis urbanized area and Section 5311 provider trips revealed a mismatch between the trips and the funding used. The plan revealed just how much the (designated) urbanized area for the Central Indiana Region has grown and how, as a result, a significant percentage of rural providers in the region complete trips that begin and end in the urbanized area. INDOT has since determined that these trips should be categorized as urban trips and that they be funded by 5307 formula funding as opposed to 5311 formula funding. Beginning in 2022, Section 5311 sub-recipients (i.e. suburban transit providers) operating in the surrounding counties will see either a complete elimination of Section 5311 funding or a reduction in their 5311 funding amount. At the same time, they will become eligible to receive a portion of Central Indiana's Section 5307 funding; a source of funding that, up to this point, has only been split between IndyGo and the Central Indiana Regional Transportation Authority (CIRTA). This shift in how federal 5307 program dollars are allocated throughout the Central Indiana Region will have a direct impact on IndyGo's revenue stream. As Marion County's leading transit agency, IndyGo experienced a loss in its share of Section 5307 funding for FY2021, as suburban transit providers were included in the funding distribution for the first year. A potential reduction in 5307 funding for IndyGo has been included within the planning assumptions made to update this plan.

Table 12: Anticipated 5307 Formula Funds for Capital Projects

Total	\$32,775,395
FY 2019 (actual)	\$3,728,359
FY 2020 (actual)	\$4,424,169
FY 2021 (actual)	\$2,840,771
FY 2022	\$3,484,105
FY 2023	\$3,925,986
FY 2024	\$4,381,125
FY 2025	\$4,849,942
FY 2026	\$5,140,938

FTA Bus & Bus Facilities Infrastructure Investment Program (Section 5339)

This FTA grant program makes federal resources available to replace, rehabilitate, and purchase buses and related equipment. It can also be used to construct bus-related facilities. Eligible expenses include capital projects that incorporate technological changes, and innovations that reduce fleet emissions. Funding from this program is provided both through formula allocations and competitive grants. Capital projects funded through the FTA 5339 program generally require at least a 20 percent local match of the net capital project cost.

IndyGo has and will continue to submit applications to secure competitive grant dollars through this program every year and for the life of this or any subsequent capital investment plan. If, and when, IndyGo is successful in securing Section 5339 grant dollars, the agency will adjust the amount cash, bonds, or other funding dedicated to the completion of one or more of the capital projects described herein.

In 2020, it was anticipated that between 2021 and 2025 \$10.9 million in Section 5339 formula funds would be made available to IndyGo to use on capital projects. Currently, IndyGo is the only recipient for Section 5339 funding in Central Indiana. For FY2022 formula funds and beyond, a portion of Section 5339 will become an application-based competitive program for public transit providers in Central Indiana. This plan assumes a reduction of Section 5339 formula funding to IndyGo for the foreseeable future. As of this update, IndyGo staff believe there will be approximately \$400,000 per year set aside for the subrecipients. The actual amount will depend on subrecipient needs and applications.

As of this update, IndyGo applied for the FY2020 Bus and Bus Facilities call for projects for Super Stops 2.0; the project was not selected for funding. A debrief with the FTA administrator, however, concluded that the grant application was competitive, and staff will seek to apply for the FY2021 Bus and Bus Facilities call for projects (see Table 13. Anticipated 5339 Formula Funds for Capital).

Table 13. Anticipated 5339 Formula Funds for Capital

Total	\$10,614,657
FY 2020 (actual)	\$1,873,256
FY 2021 (actual)	\$1,132,950
FY 2022	\$1,246,245
FY 2023	\$1,370,870
FY 2024	\$1,507,957
FY 2025	\$1,658,752
FY 2026	\$1,824,627

FTA Enhanced Mobility for Seniors and Individuals with Disabilities (Section 5310)

This program provides formula funding for the purpose of assisting private nonprofit groups in meeting the transportation needs of older adults and persons with disabilities, only. IndyGo is the designated recipient for Section 5310 funding for the Indianapolis urbanized area. IndyGo is responsible for administering 5310 funding to eligible sub-recipients for eligible activities within the urbanized area. Unlike Section 5307 formula funds which are administered by the Indiana Department of Transportation, IndyGo receives Section 5310 formula funds directly from the federal government. Each year, IndyGo administers its own competitive grant process by issuing a call for projects and granting awards to eligible sub-recipients. At present, IndyGo only offers funds for capital expenses. Any expenses associated with this program for capital expenditures requires at least a 20 percent local match, which the sub-recipients are expected to contribute in full.

Section 5310 funding can be used to purchase buses and vans, wheelchair lifts, ramps, securement devices, transit-related information technology, mobility management programs, acquisition of contracted transportation services, such as IndyGo's paratransit operations, and other such expenditures. These funds can also be used to pay for operating expenses. In 2020, IndyGo had expected a total of \$4,933,097 to be available for capital projects from FY2019-2025. As of this update, IndyGo received \$2,333,503 million of Section 5310 funding from FY 2019-2021 and anticipates approximately an additional \$3.5 million of Section 5310 funding will be available from FY2022 to FY2026 (see Table 14. Anticipated 5310 Formula Funds for Capital). Over the life of this plan, IndyGo is expected to receive \$5.86 million in 5310 formula funds to support the many capital investment projects described herein.

Table 14. Anticipated 5310 Formula Funds for Capital

Total	\$5,864,673
FY 2019 (actual)	\$625,276
FY 2020 (actual)	\$890,878
FY 2021 (actual)	\$817,349
FY 2022	\$664,553
FY 2023	\$679,838
FY 2024	\$695,474
FY 2025	\$727,466
FY 2026	\$763,839

FTA Major Capital Investment Grants Program: Small Starts Funding (Section 5309)

The FTA Major Capital Investment Grant program (Section 5309) is the primary federal funding source associated with major capital investment projects, providing capital assistance for three primary activities:

- 1. New fixed guideway systems or extensions to existing fixed guideway systems (New Starts program and Small Starts);
- 2. New and replacement buses and facilities (Bus and Bus Related Facilities program); and
- 3. Modernization of existing rail systems (Fixed Guideway Modernization program).

Transit agencies seeking Small Starts funding for a capital investment project must first apply to enter the program. Once accepted, the transit agency must then go through a phased project development approval process before seeking a fully executed grant agreement with the FTA. Depending upon the level of competitiveness of a given project, the federal support for the project can be between 50 percent and 80 percent, with the required local match derived from some other source(s) of funding.

The Small Starts program provides funds to capital projects that either (a) meet the definition of a fixed guideway for at least 50 percent of the project length in the peak period or (b) are corridor-based bus projects with 10-minute peak/15-minute off-peak headways or better while operating at least 14 hours per weekday. The Federal assistance provided under Section 5309 must be less than \$100 million and the project must have a total capital cost of less than \$300 million, both in year of expenditure dollars. IndyGo's Red and Purple BRT projects qualify for Small Starts funding. As of this update, it is anticipated that IndyGo's Blue Line BRT project will also remain in the Small Starts funding program.

The Red Line BRT project successfully secured 80 percent participation from the Small Starts Program. Per the Small Starts Grant Agreement executed in May 2018, IndyGo was the recipient of a total of \$74,989,685 to support the Red Line BRT project. While not tied to FTA's Section 5309 funding program and not subject to a local match requirement, in June 2021 it was announced that IndyGo would receive a \$12 million allocation of American Rescue Plan funding for the Purple Line BRT project. Then, in August 2021, it was announced that IndyGo would receive another \$81 million – this time in CIG Small Starts program support – to advance the Purple Line BRT project.

IndyGo still anticipates applying for and receiving 5309 funds for the Blue Line BRT project as IndyGo has already been accepted into Project Development under 5309 for the Blue Line. In 2020, IndyGo's 5-yr Capital Plan budget assumed a 50 percent award by the federal government in 2020. As of this update, IndyGo's 5-yr Capital Plan budget assumes 50 percent in 2024. Should Section 5309 funding become unavailable for the Blue Line BRT project, IndyGo would consider reducing the costs of this project through scope changes and value engineering. IndyGo could also seek to expand its capital bond to offset any reductions relative to the expectations established within the development of the Transit Plan.

Should IndyGo be successful in executing a full grant agreement for the Blue Line, Indianapolis-Marion County would be the recipient of more than \$252.5 million in Small Starts funding towards the development of the agency's new fixed guideway system. (see Table 15).

Table 15: Anticipated 5309 Small Starts Funds

Total	\$255,964,685
Red Line (Phase 1)	\$74,989,685
Purple Line	\$80,975,000
Blue Line	\$100,000,000

Congestion Mitigation and Air Quality (CMAQ) and Surface Transportation Block Grant (STBG)

Over the years, IndyGo has requested and successfully been awarded CMAQ and STBG funding from the IMPO. IndyGo has received and exhausted CMAQ funding for the following activities: Purple Line outreach, preliminary engineering, and NEPA activities. In 2019, IndyGo programmed \$1,353,280 from a CMAQ award to install transit signal priority infrastructure, beginning with the BRT routes, at key intersections to increase service reliability. These funds are still available for use in 2021.

The CMAQ program provides a flexible funding source for transportation projects that improve air quality and reduce congestion. Typical uses of these funds include infrastructure, vehicles for new transit service, and replacement vehicles. In the Indianapolis urbanized area, these funds are administered by the Indianapolis MPO (IMPO).

Surface Transportation Block Grant (STBG) funding is also administered by the IMPO. These federal funds are passed from the Federal Highway Administration (FHWA) to the Indiana Department of Transportation (INDOT) and INDOT reimburses local transit agencies whose projects are awarded funding by the IMPO. These resources may be used for road, bikeway, pedestrian, or transit projects, as determined and prioritized by the IMPO Transportation Policy Committee. Typical transit projects funded through STBG often include the purchase of vehicles, construction of fixed-guideway systems, and other transit-related investments. In 2020, INDOT and IMPO agreed to exchange federal funds allocated to the IMPO for state funds. The federal exchange will occur for future projects (FY2024/FY2025) and allowing local public agencies using these funds flexibility for their project timeline and design.

For the years 2020-2023, seven percent of the region's Transportation Improvement Plan is programmed for transit-related activities. In 2020, IndyGo had anticipated STBG awards of \$5,650,000 and \$4,867,537 for fleet replacement in 2020 and 2021, respectively. STBG funding for 2023 and 2024 was projected to be \$4,595,827 and \$9,744,839, respectively; wherein the elevated 2024 amount was intended to represent an IMPO investment in the IndyGo's 2024 fleet replacement. The projected amount for 2025 was at that time unknown. As of this update, the IMPO recently released a call for projects for FY2025. The amount available is lower than the normal allocation due to the IMPO "swapping" funds with the state and settling balances with INDOT. IndyGo staff will apply to the call for projects yet this fall.

Additionally, a combined \$4,595,827 in STBG and CMAQ for the Red Line Rapid Transit extensions to the Marion County lines was awarded to IndyGo by the IMPO in 2018. The first grant was for vehicle purchases through a CMAQ grant. The grant amount was approximately \$3 million. The next grant was for road widening, repair, and signal upgrades through the STBG worth approximately \$1.3 million. These dollars were to have been spent in SFY 2022, as reflected in the region's Transportation Improvement Plan. Due to recent and anticipated impacts resulting from the COVID pandemic, and the relative lack of a funding commitment from the counties that would receive the extensions (Hamilton and Johnson Counties), IndyGo is not able to advance the Red Line extensions within the timeframe required by these grants. In 2020, IndyGo staff amended the Red Line Extensions grant request, returning the STBG portion and maintaining the request for the CMAQ funding for the purchase of 60' electric vehicles. At their August 2020 IMPO Transportation Policy Committee meeting the amended request was approved. See also BRT: Red Line Rapid Transit (Phases II & III) on the following pages.

IMPO Green Line Grant

Circa 2011, as part of the long-running study of the potential for bus rapid transit in various corridors throughout central Indiana, the IMPO was awarded a grant to examine the feasibility of an enhanced corridor between downtown Indianapolis and downtown Noblesville in Hamilton County via the Hoosier Heritage Port Authority's Nickel Plate Rail corridor. As these planning efforts matured, this corridor was denoted as the Green Line. Through preliminary planning and environmental work, it was determined that this corridor may have environmental and financial sustainability concerns that limited the feasibility of that corridor for bus rapid transit activities.

In 2017, conversations between the IMPO and IndyGo determined that a study of the northeast downtown corridor, which at that time served by several local routes that travel north and east from downtown, may benefit from enhanced infrastructure improvements and that a study of the same could fulfill the purpose and intent of the IMPO Green Line Grant. Circa 2017, the IMPO awarded IndyGo approximately \$700,000 in capital funding to pursue

planning and preliminary design activities in these areas. This effort produced IndyGo's "Super Stops" projects. Most of the IMPO Green Line Grant resources were expended by the end of 2019 and totaled \$815,344.

INDYGO LOCAL REVENUE (CASH)

IndyGo's local revenue, or cash, is derived from proceeds from property taxes in accordance with IC 36-9-4-48 and from the 0.25 percent transit income tax enacted in 2017. These funding sources are typically used to provide local match for federally funded capital projects and to pay for locally funded capital projects. Revenue from these taxes is held in the IndyGo Capital Cum Fund, which was established by the IPTC Board of Directors in 2004 and serves as a relatively liquid source of funding to support capital projects. At present, this tax is assessed on properties within Indianapolis and Beech Grove, but not within the other excluded cities and towns of Marion County. By the end of 2020, the capital plan called for a total of \$151.2 million to be drawn from these funds between 2020 and 2025 to advance the Transit Plan. As of this update, this capital plan requires a total of more than \$348 million to be drawn from these funds between 2020 and 2026. This is due in large part to showing the Blue Line as being funded locally, since, at the time of this update, there is not an executed grant or current bond issuance.

INDYGO ANTICIPATED DEBT (BONDS)

Periodically, IndyGo must issue general obligation bonds for the purpose of providing local financial contributions to federally funded capital and equipment projects. The size and scope of IndyGo's current five-year capital program will require the issuance of bonds to provide resources to advance this capital plan and successfully implement the Transit Plan. Principal and interest payments for bonds issued to advance capital projects within this plan would be made from the proceeds of the newly adopted 0.25 percent local income tax that became effective in Marion County on October 1, 2017. Version 1.0 of this capital plan assumed a 2019 appropriation of \$58.4 million from the income tax. Actual appropriation for 2019 was \$56,858,347. The 2020 appropriation was \$58,369,430. The 2021 appropriation is expected to be greater than \$63 million, which is \$10 million more than what had been assumed for that year. This update assumes a 2022 appropriation of \$62,281,177 from the income tax. From year to year, the bonds would have a first lien position on the proceeds of the local option income tax.

In 2020, it was thought that the capital plan requires \$94.4 million in total debt issuance between 2021 and 2025, including the \$26 million bond issuance approved by the Indianapolis-Marion County City County Council (and additional financing costs) and the Indianapolis Bond Bank in August 2018 and a proposed \$65 million bond in 2022. As of this update, the capital plan requires \$46.9 million in current debt issuance (series 2018A and 2021D bonds). Additionally, it is anticipated that a separate, \$65 million bond issuance will occur sometime in 2022 or 2023, for the Blue Line. In projecting the finance costs associated with the future bond issuance, IndyGo has assumed interest rates that are based upon the Thompson Reuters Municipal Market Data (MMD) AAA Curve. This approach yields conservative estimates in that the projections use the MMD yield as a baseline and then add additional basis points to provide a level of cushion for market uncertainties and future fluctuations in the bond market.

Further, in projecting debt and debt service payments throughout the course of this plan and through IndyGo's 20-year financial projections, aggregate annual debt service payments are split between a portion covered through the FTA 5309 Small Starts program and the remainder, which IndyGo will source through its capital debt service fund. This inclusion of financing costs within Section 5309 project costs is a requirement of FTA; this plan reflects that requirement accordingly.

OTHER SOURCES OF FUNDING

City of Indianapolis General Fund

The City of Indianapolis, Department of Public Works (DPW) contributes local dollars towards IndyGo's bus rapid transit projects. IndyGo and DPW are party to an Interlocal Cooperation Agreement (ICA) that details the roles and responsibilities of the ongoing maintenance and operations of the bus rapid transit infrastructure on the Red Line Phase I project. The current agreement includes a total commitment of \$6 million (\$3 million for Red Line phases I, II, and III, \$1.5 million for Purple Line, and \$1.5 million for Blue Line bus rapid transit projects) from DPW to IndyGo for the completion of the three BRT lines. IndyGo and DPW are preparing an amendment to the ICA that will incorporate operations and maintenance cost-sharing requirements for the Purple Line. That amendment is expected to be executed before the end of 2021. A similar amendment will be prepared for the Blue Line prior to its construction.

Tax-Increment Financing

The Metropolitan Development Commission (MDC) serves as the City's redevelopment commission (IC 36-7-15). Within a declared economic development area, the MDC has authority to create an allocation area to capture tax increment tax-increment financing (TIF). TIF revenues can be used to pay for capital project expenditures, such as public infrastructure projects, so long as they directly serve or benefit the correlating allocation area.

The MDC determined that Red Line Rapid Transit Project will directly benefit the Consolidated Redevelopment Allocation Area located in downtown Indianapolis and subsequently approved \$6 million in TIF revenue to support construction of the Red Line project. The MDC executed an agreement to appropriate these TIF resources to IndyGo in July 2018.

Similarly, the MDC has determined that the benefits of improving the West Washington Street corridor, from Holt Road to High School Road, would substantially advance the City's goals in that area. These benefits include enhanced transit operations in that area; substantial improvements to the street, sidewalk, and stormwater infrastructure; and the supporting of reinvestment and revitalization within the vicinity of the Indianapolis International Airport. Further, it is believed that any investment made in the Blue Line through the TIF funds would ultimately lead to value capture, in which the initial investment sparks development that creates additional resources within the TIF. For those reasons, the MDC has agreed to allocate \$12.5 million from the Airport TIF to the Blue Line BRT project, upon execution of a Small Starts Grant Agreement with the FTA.

Joint Development: Indianapolis Neighborhood Housing Partnership

In its 2019 Small Starts grant application for the Blue Line bus rapid transit project, IndyGo, in partnership with the Indianapolis Neighborhood Housing Partnership, included a request to explore a joint-development opportunity in coordination with its capital improvement grant project.

Joint development is a public/private partnership initiated by a transit agency where the development has some level of FTA investment that is physically and/or functionally related to the transit system. It is a type of value capture in that it can offset some of the costs of improving the transit system over time. Joint development can simultaneously reduce, leverage, and protect the public's investment in implementing and maintaining a fixed-guideway rapid transit system. A joint development project often is in the form of a compact, mixed-use

development within a safe and easy walking distance of a transit stop. This type of development is often referred to as a transit-oriented development (TOD). TOD is both a real estate development term and a way to describe entire neighborhoods that take advantage of transit access and support increased transit usage. However, unlike other transit-oriented development projects, joint development engages the transit agency in contractual relationships with the private sector, which introduces business, financial, and operational factors that wouldn't exist otherwise.

The Indianapolis Neighborhood Housing Partnership (INHP) exists to increase affordable and sustainable housing opportunities for individuals and families and serve as a catalyst for the development and revitalization of neighborhoods in Marion County. To advance this mission, INHP is acquiring strategic properties near IndyGo's rapid or frequent transit corridors. To expand it capacity to engage in this work, INHP has created the Equitable Transit-Oriented Development (ETOD) fund in association with Cinnaire, a community development financial institution (CDFI). Cinnaire helps community development organizations, lending partners and socially motivated investors accomplish goals in underserved communities. They are working to invest more than \$4.2 billion in community development dollars across nine states. This includes the development of more than 50,000 homes for people and families in need.

When fully capitalized, INHP's ETOD fund will provide up to \$15 million of acquisition capital to preserve and create more than 1,000 affordable housing units near transit stops, ensuring continued location-efficient housing options, while catalyzing neighborhood development and promoting access to opportunities for low- and moderate-income families. Between 2019 and 2020, ETOD moved from a theoretical concept to an implemented strategy. By the beginning of Q4 2020, INHP had accumulated more than \$14.25 million in capital including \$3 million of grant funds supporting \$11.25 million of senior debt from seven financial institutions. INHP continues to raise capital and expects to cap the fund at \$15 million in combined resources. As of September 2021, the program has acquired 12 ETOD properties (for \$8,477,000, exclusive of due diligence, closing and holding costs).

There are many properties that take advantage of locations on or near a BRT route, a frequent route, an intersection of a BRT route, or where two or more Iffrequent routes intersect. The location of the 12 ETOD properties span the (existing) Red Line, (soon to be under construction) Purple Line, (planned) Blue Line, and several routes on the frequent grid. Eleven of the 12 ETOD properties have been "paired" with prospective development teams -- either through a letter of interest or a purchase agreement – who are currently working through the entitlement, design, and capital funding processes.

CONTINGENCY PLANNING

Each of the larger projects included in this plan contain some contingency to address unanticipated issues and unexpected costs that may arise within the execution and implementation of individual projects. These contingencies are anywhere between five to 30 percent of anticipated project costs depending on the complexity and size of the scope of work. IndyGo has been conservative in its budgeting to ensure it has the adequate resources necessary to overcome unanticipated issues and deliver these projects as planned.

Should anticipated local revenue (cash) programmed to support individual projects not be realized throughout the course of this plan, IndyGo has considered strategies it would employ to ensure that it remains able to deliver the Transit Plan, as outlined to the public in advance of the 2016 general election. If funding were unavailable for a smaller project due to an unanticipated change in funding sources, the cost of the project may be addressed

through unspent contingency on other projects, delayed, or otherwise re-evaluated. IndyGo continues to monitor actual expenditures relative to anticipated expenditures, as outlined in this plan and the previous capital plan, making revisions (to expenses and funding sources) as needed.

Contingency Planning for Small Starts (BRT)

As part of its Small Starts application process for the Red Line BRT project and its capital planning efforts, IndyGo developed a 20-year financial model to evaluate long-term cash flow and support capital and operational planning through 2039. Through this 20-year financial model, a scenario examining the impact of no federal Small Starts participation in the construction of the Purple and Blue bus rapid transit corridors was considered. The ability to realize the Transit Plan took one step forward this year when, in August 2021, IndyGo executed its Small Starts grant agreement with the FTA for the construction of the Purple Line.

Should the Small Starts program be no longer available or IndyGo be unable to access its funding for the Blue Line bus rapid transit project, IndyGo would adjust its capital program outlined in this document by increasing the total of its anticipated bonds. Additionally, the Blue Line western corridor would be constrained to that which was in the Transit Plan (i.e., no additional infrastructure past Holt Road), and other adjustments in planned expenditures would be made to assist in cash flow as the debt would be retired. See also, Congestion Mitigation and Air Quality (CMAQ) and Surface Transportation Block Grant (STBG).

CAPITAL EXPENDITURES

Implementation of IndyGo's capital investment program, which includes the Transit Plan, will include local service improvements, fleet replacement, construction and operation of bus rapid transit corridors, bus stop optimization and adjustments, information technology upgrades, improvements to supporting infrastructure, the expansion and enhancement of transit operations and maintenance facilities, among other things. The expenditures associated with these improvements fall into six categories, which continue to evolve with the implementation of this capital plan:

- **Fleet:** These expenses include planned replacement of local-fixed route vehicles, paratransit vehicles, and support vehicles for IndyGo's existing fleet, as well as equipment to maintain the fleet in good condition.
- Bus Rapid Transit and other on-street infrastructure: The core of the Transit Plan is the implementation of three rapid-transit lines and the switch to a grid-based local network with faster and more frequent service running longer hours each day. The capital expenses associated with bus rapid transit are substantial and represent a significant majority of capital expenditures over the next several years. In addition to implementing the bus rapid transit corridors, IndyGo is working with the City to complete one-way street conversions and other infrastructure projects, as well as the improvement of several local route stops, shelters, and sidewalks.
- Facilities: As IndyGo increases its fleet and the size of its staff, it is updating, upgrading, renovating, and modernizing its facilities to accommodate this growth. Several projects are planned for IndyGo's long-standing administration and maintenance facility located at 1501 W. Washington St. Work continues at IndyGo's newly acquired properties throughout Indianapolis. IndyGo had initially pursued the redevelopment of a former industrial property to create a training and contingency facility. However, the purchase of the former Celadon property on Indianapolis' Far Eastside has afforded the agency with the opportunity to co-locate the training and contingency facility as part of its new headquarters. IndyGo continues to invest in property acquisition and development opportunities as needs arise.
- **Information technology:** Like other transit agencies in large cities, IndyGo deploys several systems that improve its efficiency in monitoring and operating transit service. Many of these systems fall within the purview of information technology. IndyGo anticipates dedicating resources to upgrading existing systems, maintaining systems, and adopting new technologies as part of its capital investment program.
- **Finance:** Historically, IndyGo's public affairs team was responsible for internal and external communication, business development, enhancing the rider experience, promoting customer service, advancing several special projects, engaging with advertisers, and assisting in translating the community's needs into agency initiatives. These tasks rely on exceptional communication and reliable communication infrastructure. As such, the capital needs associated with IndyGo's public affairs division were meant to enhance the agency's ability to facilitate communication within the agency and between the agency and its riders and other partners. Organizational changes that took place in 2020 streamlined where certain capital projects live within the agency. Currently, fare modernization falls within the purview of the finance division.
- Safety & Security: IndyGo considers the safety and security of its employees, passengers, fleet, and facilities in all that it does. Safety and security measures are built into nearly every capital project regardless of size or scope; thus, safety and security expenditures are a sub-component of every project included in

this plan. Additionally, IndyGo plans to secure specific safety, security, and training equipment, separate from other projects, over the course of the next several years.

The following pages describe each of IndyGo's planned capital expenditures through the year 2026 and include detailed tables of expenditures and funding sources. For projects that have incurred costs prior to the drafting of this plan, the total costs listed here include only the remaining costs (unless otherwise noted).

FLEET: REPLACEMENT, UPGRADES, AND MAINTENANCE

Fixed Route Bus Replacement

Vehicles beyond their useful life have reduced reliability, require additional service, and create more emissions than newer models. Over the past few years, IndyGo has made substantial strides in bringing its fleet under the FTA's useful life benchmark. Currently, IndyGo has over 200 vehicles in its operational fleet, some of them dating back to model year 2010. Of the estimated 211 vehicles, none of the vehicles will have surpassed their useful life based on years in service.

IndyGo remains committed to greening its fleet. Experience with its existing 60' BYD buses has been mixed, which has caused the agency to re-evaluate purchasing 40' battery electric buses to fulfill the needs of its local fixed-route service. In early 2020, the decision was made to order 27 hybrid Gillig buses. In 2021, IndyGo adjusted its order slightly down to 24 and has received all 24 vehicles. Recognizing that hybrid buses provide a proven technology that is cleaner than the traditional diesel vehicle while offering the same (or better) operational benefits.

IndyGo continues to pursue competitive grant funds and creative other financing strategies to acquire the vehicles that are needed to implement the Transit Plan, among other capital investments. As COVID-19 has delayed the continued implementation of the Transit Plan, IndyGo will re-evaluate its local fixed-route vehicle purchases. IndyGo may seek to utilize early purchasing of bus rapid transit vehicles to provide service on existing routes until construction of the bus rapid transit amenities are complete.

IndyGo had anticipated a total expenditure of approximately \$57.2 million beginning in 2021 through 2025, with resources from grants and cash. As of this update, the Fixed Route Replacement Plan reflects the need to account for the total anticipated appropriations. These appropriations would be supported with best suited financing mechanism; lease financing or cash purchase depending on cash flow in any given year. The funding mechanism for fleet replacement in 2021 is accounted for under the annual debt service expenditure for 2021. IndyGo anticipates that, in the future, buses will be acquired through the lease financing funding mechanism under this plan. This strategy is revisited every year to ensure that IndyGo procures the fleet in a fiscally prudent manner promoting financial sustainability.

Paratransit Vehicle Replacement

Known locally as Open Door service, IndyGo provides complementary ADA paratransit services throughout Marion County to serve those eligible individuals who are unable to utilize the fixed-route transit service. IndyGo's Open Door service operates an ADA-compliant fleet of mid-sized, body-on-chassis transit vehicles with wheelchair lifts.

Each of these vans and shuttles has a much more limited useful service life compared to IndyGo's larger, more robust fixed-route vehicles. To ensure that IndyGo's paratransit service remains safe and reliable, each year, IndyGo

programs money to replace paratransit vehicles that have met or exceeded their useful service life. At around \$1.5 million per year (2022 – 2026), these costs will be paid for by grants and future IndyGo local revenue (cash).

IndyGo is currently looking at new ways to implement similar on-demand services throughout Marion County. This may include purchasing more paratransit-type accessible vehicles to augment a deviated fixed route and other pilot programs. This may include the partnering with Transportation Network Companies (TNCs), purchasing additional vehicles outside of those contracted under our paratransit services contract, paratransit fleet replacement, changes to the voucher program, community-based microtransit pilot projects, and updating the Open Door brand, among other things.

Other Rolling Stock & Equipment

<u>Support Vehicle Replacement</u> - IndyGo transportation and maintenance teams require quick and reliable transportation to respond to incidents in the field involving buses, operators, or other infrastructure. These vehicles are used by transportation supervisors and staff who support the on the street operations. This includes responding to operator assistance calls, responding to accidents, and assisting with passenger control, among other things. Like IndyGo's fixed route and paratransit vehicles, non-revenue vehicles need to be replaced once they reach their useful life expectancy.

For FY 2021 through FY 2026, the operations division is looking to provide in-field operator relief where operators will drive to the designated relief points themselves, using non-revenue vehicles for this purpose. This change in relief processes is directly related to the implementation of the MCTP, providing more efficient "seat swaps" for operators in the field within the connected grid network. The funding for these types of purchases will need to be increased to support the full implementation of the Transit Plan and are likely contingent upon the same. IndyGo had initially programmed \$936,000 to be spent between 2019 and 2024 to replace support vehicles. Before the end of 2021, IndyGo will have spent approximately \$514,250 (\$24,200 in Q3/Q4 2019, \$265,961 in 2020, and an estimated \$224,089 in 2021), which is 47 percent of the total capital budget for the same period, to replace support vehicles. This is \$181,000 less than what the agency had expected to spend by the end of 2020 (\$621,000). It is anticipated that the \$181,000 will be spent in 2021. It is further anticipated that \$1.42 million will be needed for support vehicle replacement between 2022 through 2026, averaging approximately \$300,000 per year.

Maintenance Heavy Equipment and Other Expenses - IndyGo's vehicle fleet often requires major repairs at its maintenance and operations facility to ensure that buses can quickly be returned to service. These repairs require heavy equipment that has a limited useful life. To enable IndyGo to continue to conduct these repairs at its maintenance facility, this equipment includes scissor lifts, cutter machines, bending machines, platform and portable lifts, a hydraulic press, a metal lathe, and other heavy equipment that must be purchased and/or replaced. In total, having incurred costs totaling \$317,658 between 2019 and 2021, IndyGo anticipates expenditures of up to \$900,000 between 2022 and 2024 to complete this project; investing \$300,000 annually with funds sourced from grants and future local revenue.

<u>BRT Bus Docking Technology</u> - Lane Transit District in Eugene, Oregon piloted a magnetic guidance system to guide BRT vehicles into bus rapid transit stations for the purposes of achieving precision docking. IndyGo had explored the potential application of this technology within its BRT system for the purposes of providing a consistent and routinely accessible docking maneuver at BRT stations. It was thought that this system would ease the burden upon coach operators in executing these maneuvers and ensure reliability and access for those passengers using assistive

mobility devices; eliminate the need to deploy bridge plates and ramps, reducing dwell time; and reduce or eliminate vehicle damage due to striking stations. The system would require modification of existing BRT vehicles and the deployment of magnetic pucks in the vicinity of station areas. Version 1.0 of this plan included \$5 million in programmed expenditures for this effort; the source was IndyGo local revenue (cash).

In their review of this technological application, IndyGo staff grew concerned with the lack of a commercially viable product in the marketplace, which would necessitate the need for IndyGo to pilot another new product likely without support for the life of the system. It is for these reasons, that the agency decided to remove this project from its capital program. In 2020, the funds that were programmed for bus docking technology were reallocated to the purchase and renovation of newly-acquired facilities, and IndyGo staff continues to evaluate how best to aid operators in docking vehicles quickly and safely at both existing and future BRT stations.

Automatic Passenger Counters (APCs) that are connected to a system that records boardings and alightings for each bus throughout the day. This system is currently the only way in which IndyGo can attribute boardings and alightings to individual stops throughout its system. Furthermore, with the implementation of the two-hour free transfer window and operation of the BRT system, the APC system will become increasingly critical in determining overall ridership. IndyGo's ridership of record is currently derived from its fare payment system; however, the use of mobile app technology and two-hour free transfer windows means that some riders will make transfers without having to engage with the fare system a second time. As such, highly reliable APC counters is critical in accurately measuring and monitoring ridership. Not only is this upgrade needed for reporting and funding purposes but also for the future of the service we provide and where it is provided. Further, it directs where investments in bus stop and other infrastructure should be targeted.

IndyGo's newer vehicles are equipped with enhanced, more reliable APC counters, while older vehicles use older hardware. These older units have proven to be much less reliable and present more variation between boardings and alightings compared to IndyGo's newest APC counters. Further, the introduction of two types of hardware into a system in which a single measure of ridership is to be derived creates some data integrity challenges. For these reasons, IndyGo pursued an upgrade to its APC counters across its buses that have at least five years left among their useful life and which have not already been equipped with upgraded APCs. In 2019, IndyGo had programmed \$220,000 from cash reserves to advance this project beginning in 2020.

IndyGo replaced APCs for all fixed-route vehicles purchased in FY2013 through FY2020. All fixed route vehicles purchased before FY2013 are due for lifecycle replacement in FY2021 & FY2022 and were therefore not included in the APC replacement project. The total investment is \$191,000. Going forward, all newly procured buses will come with fully compatible APCs already installed.

Table 16. Fleet: Funding Sources and Uses (2019-2025)

		BRT Bus	Paratransit	Fixed Route	Support	Maintenance	
Funding Source	APC Upgrade	Docking	Bus	Bus	Vehicle	Heavy	Total
		Technology	Replacement	Replacement	Replacement	Equipment	
2024 STP/CMAQ				\$9,744,839			\$9,744,839
2020 STP				\$5,650,000			\$5,650,000
2021 STP				\$4,867,537			\$4,867,537
IN-2020-027				\$1,726,984			\$1,726,984
IN-2017-018-11.12.01				\$756,234			\$756,234
IN-2017-018-11.12.04			\$434,528				\$434,528
IN-2019-001-11.12.04			\$950,564				\$950,564
FY2023 5310			\$679,838				\$679,838
FY2022 5310			\$664,553				\$664,553
FY2021 5310			\$649,612				\$649,612
IN-2021-004			\$1,553,066				\$1,553,066
IN-2021-004			\$662,187				\$662,187
IN-2016-024-11.12.01				\$553,589			\$553,589
FY2024 5310			\$695,474				\$695,474
FY2025 5310			\$727,466				\$727,466
IN-2019-001-11.12.01				\$418,348			\$418,348
IN-2017-018-11.42.06						\$240,000	\$240,000
IN-2017-018-11.42.11					\$208,000		\$208,000
IN90X683-11.42.11					\$117,681		\$117,681
IN-2016-024-11.12.04			\$77,094				\$77,094
IN-2016-024-11.42.11					\$35,911		\$35,911
IN-2016-024-11.42.06						\$240,000	\$240,000
IN90X683-11.42.06						\$240,000	\$240,000
Grant Subtotal	\$0	\$0	\$7,094,382	\$23,717,531	\$361,592	\$720,000	\$31,893,505
Cash	\$0	\$0	\$1,773,596	\$5,929,383	\$90,398	\$180,000	\$7,973,376
Total	\$0	\$0	\$8,867,978	\$29,646,914	\$451,990	\$900,000	39,866,881

BUS RAPID TRANSIT & OTHER ON-STREET INFRASTRUCTURE

BRT: Red Line Rapid Transit (Phase I)

Completed in September 2019, Phase I of the IndyGo Red Line BRT route is the first of three major bus rapid transit projects in Indianapolis. Designed to be completed in three phases, the entire project included all requirements for a bus rapid transit system —station infrastructure, dedicated running ways, transit-signal priority, level boarding, and off-board fare collection infrastructure—as well as improvements to streets, sidewalks, ramps, and drainage within the corridor. The project budget also included fully electric, 60-foot vehicles specifically designed to operate the service.



The existing Red Line is intended to operate 20 hours per day on weekdays with peak headways between 10 and 12 minutes. The Red Line provides service to approximately 120,000 jobs or nearly ¼ of the jobs in Marion County and 65,000 residents, according to the *Red Line Transit Impact Study*.

The first phase of the Red Line connects Broad Ripple Village to the University of Indianapolis, traveling through Downtown Indianapolis. The design phase for the Red Line Phase I took place between 2015 and 2017, and a construction

management contract was awarded in 2016. The Red Line construction contracts were awarded in December 2017, and the Small Starts Grant Agreement was executed in May 2018. Operations began on September 1, 2019. Total project cost came in on-budget at \$96,329,980; \$41,286,682 (43 percent) of which was expended during the 2019-2025 planning horizon for this plan. The first \$55,043,298 (57 percent) was expended between 2015 and Q3 2019.

Table 17. Red Line BRT (Phase I) Funding Sources and Uses

, , , , ,	
Total Cost	\$96,329,980
Total Remaining Cost (as of 7/01/2020)	\$0
Funding Sources (remaining)	
Federal Small Starts (5309)	\$0
IndyGo Capital Cum Fund (Cash)	\$0
Uses (remaining)	
Professional Services & Administration	\$0
Vehicles	\$0
Construction	\$0

BRT: Purple Line Rapid Transit

The Purple Line will be the second of the three bus rapid transit lines to be constructed as part of the Transit Plan. Its operational profile will mirror that of the Red Line (see BRT: Red Line Rapid Transit (Phase I)). The cost of the project includes those components required to operate the BRT as well as a substantial investment in streets, sidewalks, and drainage infrastructure.

The Purple Line, once operational, will replace Route 39; the route with IndyGo's highest single-route ridership. From the Julia M. Carson Transit Center (CTC) to the City of Lawrence, the Purple Line will operate along the same corridor as the Red Line, providing five-minute headways for those traveling between these stations. At the 38th and Park station, the Purple Line will continue east along 38th Street to Post Road and will then extend northward on Post Road. The corridor's northern terminus will be in Lawrence Village, near the Ivy Tech – Lawrence Campus.

Part of FTA's Section 5309 project pipeline, the Purple Line was accepted into project development in 2017. In June 2020, the FTA announced that the Purple Line would receive Section 5309 funding. Design for the Purple Line commenced in 2017 and continued into 2021. Construction was



originally projected to begin in late 2021, with revenue service beginning in late 2023. The grant execution and bid processes were suspended while controversial legislation wound its way through the 2021 state legislative session, but on August 24, 2021, FTA announced the award of a Full Funding Grant Agreement (FFGA) for the project. It is anticipated that construction contracts will be awarded in December 2021. As a result, construction is now expected to take place between Q1 of 2022 and Q4 of 2024. It is further anticipated that operations will begin in 2024.

Table 18. Purple Line BRT Funding Sources and Uses

Total Cost	\$161,950,0000
Total Remaining Cost, 2022-2026 (projected as of 1/1/2022)	\$125,837,8655
Funding Sources (remaining)	
Federal Small Starts (5309)	\$56,444,699
FY2017 Super Stops, Shifted to Purple Line	\$0
FY2019 5307	\$0
FY2020 5307	\$0
FY2021 5307	\$2,184,608
FY2022 5307	\$4,820,525
Indianapolis DPW	\$0
Bonds	\$0
Bond Contingency	\$0
IndyGo Capital Cum Fund (Cash)	\$46,560,010
Uses (remaining)	
Professional Services & Administration	\$13,719,865
Vehicles	\$0
Construction	\$112,118,000
Financing Costs	\$2,259,903

BRT: Blue Line Rapid Transit

The Blue Line is the last of the three bus rapid transit lines prescribed by the Transit Plan. This fixed-guideway project will mirror the operational profiles of the Red and Purple lines, and is expected to operate along Washington Street, generally following IndyGo's current Route 8. Once operational, the line is expected to provide 10-minute service on Washington Street from Cumberland (east) to High School Road (west). At present, the plan is for the line to branch at High School Road with alternating routes: one continuing in BRT service to the Indianapolis International Airport along South Perimeter Road (with two additional BRT stations at InfoSys and FedEx), and one continuing west on Washington Street to Bridgeport in local service (using non-BRT bus stops).

Design activities for the Blue Line began in early 2018. Because the Blue Line follows the design and construction of the Purple Line, delays in the Purple Line have resulted in delays in the Blue Line design and construction. As of this update, construction is anticipated to begin in 2024, with revenue service beginning in 2026. Expenditures during the project development phase of the Blue Line will be funded with IndyGo local revenue and a bond issuance to be issued in the second half of 2018. Upon execution of the Small Starts grant, 50 percent of project development expenditures would be able to be reimbursed by the FTA, up to the maximum amount allowed by Small Starts

⁵ The projected remaining costs total \$128,097,768 when factoring in financing costs, which are expenses related to debt service as opposed to capital costs.

(currently \$100 Million). Local contributions during the construction phase would be primarily derived from bonds, the Airport TIF, and a DPW contribution.

The approximately \$220,000,000 in planned expenditures allocated in 2020 for the Blue Line was \$20 million more than previously planned. This increase in cost was primarily attributable to the decision to delay the Blue Line construction period until after several INDOT projects are completed. Relative to the 2017 Capital Plan (and consistent with the 2019-2025 capital plan), this update includes the extent of West Washington Street, from Holt Road to High School Road, within the project. This area requires substantial improvements to street, sidewalk, and drainage infrastructure (in addition to the costs attributable to stations). The City, through the MDC, has allocated \$12.5 million from the Airport TIF as an upfront investment to this portion of the corridor, which projections show will be supported through trailing private sector real estate investments, which will increase the property tax base.

The remaining project budget for 2022 through 2026 is now \$224 million. The additional costs are attributable to increased future construction/materials costs, a result of the shifting timeline. IndyGo has been approved by the FTA to enter project development for the Blue Line, having submitted a federal Small Starts application in 2018. IndyGo anticipates a federal award of up to \$100,000,000 to supplement local sources required for the project.



Image Credit: Indianapolis Neighborhood Housing Partnership

Table 19. Blue Line BRT Funding Sources and Uses

Total Cost	\$220,000,000+
Total Remaining Cost (as of 7/01/2020)	\$213,861,000+
Funding Sources (remaining)	
Federal Small Starts (5309)	\$100,000,000 max.
FY2020 5339	\$0
FY2021 5339	\$796,441
FY2022 5339	\$2,179,973
FY2023 5339	\$2,269,803
FY2024 5307	\$6,047,994
Airport TIF	\$12,500,000
Indianapolis DPW	\$1,200,000
Existing Bond	\$2,953,559
Future Bond (2022)	\$65,000,000
IndyGo Capital Cum Fund (Cash)	\$18,913,230
INHP / Joint Development Match	\$2,000,000
Uses (remaining)	
Professional Services & Administration	\$23,750,000
Vehicles ⁶	\$27,000,000+
Construction	\$152,811,000
Financing Costs	\$10,300,000

This figure is dependent on the number of buses needed to deliver the service. Staff has estimated needing 36-40 buses (up from 30-36 estimate in 2020). This assumes a target of 50,000 miles/bus/year and approximately 2 million actual vehicle miles, the total is approximately 40 buses. The estimated unit cost of 2025 YoE for the 60' BYDs at \$1.74M. Therefore, the approximate vehicle expense would be approximately \$70M.

BRT: Red Line Rapid Transit (Phases II & III)

The broader *Indy Connect* plan – the plan that informed the original Marion County Transit Plan – calls for the Red Line to extend north towards the City of Westfield and south towards the City of Greenwood. Within Marion County, the southern alignment of the route was originally planned to extend southward from the University of Indianapolis, along Shelby Street and Madison Avenue to the vicinity of Greenwood Park Mall. The northern segment of the route was originally expected to extend northward from the 66th Street terminus of the Red Line (Phase I) to College Avenue and 96th Street, although the exact alignment between those two end points wasn't expected to be finalized until the final desigh phase.

The extensions of the Red Line outside of Marion County are entirely contingent upon local funding sources being developed within neighboring Hamilton and Johnson counties. Preliminary design and environmental work associated with the Hamilton and Johnson county





extensions was conducted as part of the Red Line Phase I design efforts. However, because efforts to expand Red Line BRT service into Westfield and Greenwood have ceased, these extensions inside Marion County are not likely to occur within the planning horizon of this capital plan.

Based on current budget assumptions and operational realities, IndyGo does not anticipate moving forward with Phase II and Phase III until such time that either of the adjoining townships in Hamilton and/or Johnson counties successfully adopt a transit income tax. Nonetheless, as of this update, a total of \$5.7 million between fiscal years 2024 and 2026 is being held for the completion of one or both Red Line extensions. Design activities to extend the Red Line north and south to the county lines has been postponed indefinitely, and staff is revisiting the opportunities and needs pertaining to paratransit fleet replacement. For example, staff anticipates needing to purchase paratransit vehicles to augment a deviated fixed route and other pilot programs.

Table 20. Red Line Extensions BRT Funding Sources and Uses

Total Cost	\$5,700,000
Funding Sources	
FY2023 5307	
FY2024 5339	
2023 STP/CMAQ (Red Line Ext.)	
DPW	
IndyGo Capital Cum Fund (Cash)	\$5,700,000
Uses	
Professional Services & Administration	\$4,700,000
Vehicles	\$0
Construction	\$1,000,000

Two-way Conversions

Local routes operating on one-way pairs reduce the usefulness of the transit service for riders. For the service to be useful to the rider, both corridors need to be walkable to riders' origins and destinations. One-way streets create distances that are farther from one's origins and destinations. Furthermore, those not familiar with the transit system and its operations may not easily discern that a given transit line on a map only goes in one direction.

Indianapolis' street pattern has several one-way pairs upon which IndyGo currently operates its transit service. These streets have and will continue to see increased transit service with the implementation of the Transit Plan. At the time of the Transit Plan adoption, East Michigan Street (between College Avenue and Ellenberger Park), 30th Street



(between Meridian Street and Capital Avenue), and Central Avenue were one-way streets recommended for 15-minute service. To make these routes more efficient and effective, it was proposed that these streets be converted from one-way streets to two-way streets, with transit service operating in both directions.

To successfully convert these roadways, these projects will require new traffic signals and pavement markings. Several of them also require resurfacing, with upgraded sidewalks and pedestrian crossings. IndyGo has committed funding to both the Michigan and 30th Street conversions and will continue to work closely with DPW to plan and implement these projects, in accordance with DPW's programming of these improvements, among others.

IndyGo has completed traffic studies to assess the potential impacts of converting Michigan Street and 30th Street, both of which received the concurrence of DPW. Construction on the Michigan Street conversion project (ST-26-054) has been delayed until after the North Split project, an upgrade of the existing interchange where I-65 and I-70 meet on the northeast side of downtown Indianapolis, has been completed. This means that the soonest construction of the Michigan Street conversion could begin is early 2023. Construction on the 30th Street conversion is also expected to begin in early 2023. Both budget amounts represent IndyGo's financial contribution to DPW. DPW will hold the design contract – leading the planning and design work – and therefore also controls the project schedules. It should be noted that these projects will convert both one-way pairs (29th Street & 30th Street and Michigan Street & New York Street) to two-way, although IndyGo will only operate on one of the streets (30th Street and Michigan Street).

In 2021, DPW announced that they would be converting College Ave from one-way to two-way between Market St & Massachusetts Ave (ST-25-518). Construction is anticipated to begin in early 2023 and finish in late 2023. The project will modify signalized intersections, install a bicycle track, and resurface pavement. The current budget for the project is estimated to be \$3.3 million, however the scope may change depending on whether DPW decides to add other infrastructure modifications to the project. At this time, IndyGo is not expected to contribute financially. The conversion of Central Avenue occurred in late 2018 and is therefore not included in this capital plan.

Table 21. Two-Way Conversions: Funding Sources and Uses

	Michigan Street	30 th Street	Total	
Remaining Cost	\$4,350,000	\$2,150,000	\$6,500,000	
IndyGo Capital Cum Fund (Cash)	\$4,350,000	\$2,150,000	\$6,500,000	
Construction	\$4,350,000	\$2,150,000	\$6,500,000	

Transit Stop Amenities: Shelters, Signs, & Sidewalks

As part of the implementation of the Transit Plan, in accordance with IndyGo's service standards, many local routes will be restructured, and the placement of bus stops may be altered. Bus stops will need to be added, eliminated, or relocated, and locations of existing shelters and other amenities will be adjusted accordingly. IndyGo is also working to optimize the spacing of bus stops to improve system efficiency and service reliability. Planning for these efforts, using primarily IndyGo operating dollars, began in 2018 and, to-date, has resulted in accessibility improvements to over 150 bus stops and a reduction of over 500 bus stops. IndyGo staff continues to evaluate and optimize bus stop spacing as new bus stop improvement projects are planned and constructed.

Planning, design, and construction of bus stop improvements is a complex process. Additionally, planning for stops, and stop amenities, on a yet-to-be-activated local bus network creates further challenges. As part of the route restructuring and bus stop optimization efforts associated with the Transit Plan, some stops will be eliminated, and other stops may see improvements. For those stops seeing improvements, these efforts may include improvements to adjacent sidewalks, curbs, and ramps. In early 2020, IndyGo



completed an ADA inventory and found that, as of January 1, 2020, 16 percent of IndyGo's bus stops are ADA compliant, per ADA regulations. IndyGo staff completed a Bus Stop Improvement Prioritization Plan in May 2021, which now serves as the roadmap for ongoing bus stop improvement projects. As of this update, 22.4% of bus stops are now considered ADA compliant following recent bus stop improvements by IndyGo and agency partners (such as DPW and INDOT). The goal is to continue to design and improve bus stops, every year, to achieve as close to 100 percent compliance as possible.

Not all bus stops warrant the same level of amenities. Prioritization of the placement of local transit amenities, such as benches and shelters, is based on multiple variables, including transfer points, frequency of service, adjacent land uses and their density/intensity, and their propensity to generate trips. Throughout the life of this capital plan, IndyGo plans for the annual repair, replacement, and/or construction of additional transit stop amenities throughout its service area. As such, these improvements (design and construction) have funding attributed in each year of the plan, through 2026, with resources sourced from bonds and cash. And while the planning horizon for

this capital plan ends in 2026, it is anticipated that the annual investments in local bus stop improvements will continue for at least ten more year, maybe more.

Table 22. Transit Stop Amenities Funding Sources and Uses

Total Cost									\$5,300,000
Remaining									\$3,300,000
	2019	2020	2021	2022	2023	2024	2025	2026	Total
Funding Sources									
(remaining)									
Existing Bond	\$423,869	\$324,869	\$0	\$0	\$0	\$0	\$0	\$0	\$848,738
IndyGo Capital	\$1,131	\$1,300,131	\$850,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$6,651,262
Cum Fund	\$1,131	\$1,500,151	\$650,000	\$500,000	\$900,000	\$900,000	\$900,000	\$900,000	30,031,202
Uses (remaining)									
Professional									
Services &	\$75,000	\$225,000	\$150,000	\$0	\$0	\$0			\$450,000
Admin									
Construction	\$350,000	\$1,400,000	\$700,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$6,950,000

S Madison Park-n-Ride

Established initially as IndyGo's south charging facility for the Red Line BRT route, the property located at 8905 S Madison Street includes an existing building. As expected, renovations for that building will include separation of the space to create an operator's break area and restrooms. On the other side IndyGo will create another restroom and breakroom and storage space for agency use. This project will also accommodate all needed exterior building repairs. Included will be the addition of a roof access ladder and on-site drainage improvements. It is anticipated that this project would begin in January 2022 and be completed the same year. The estimated project budget is \$500,000.

Super Stops 1.0: Delaware Street & Two-Way Conversion of Ft Wayne Ave

The Transit Plan route reconfiguration includes multiple local routes coming from the north and east into downtown that overlap with other local routes before entering the Julia M. Carson Transit Center. To speed up and enhance local service through the downtown area, and to secure operational efficiencies where these routes overlap, IndyGo has proposed a series of "Super-Stops" that will have many of the characteristics of bus rapid transit stations, except for level-boarding platforms.

Once constructed, these stops will be partially elevated to reduce the step-up height into buses, be longer than traditional bus stops (as there will be several frequent lines which access them, and it is possible that more than one bus may be at the stop at any time), include real-time information, and have sheltered waiting areas. These stops will also include security cameras and ticket vending machines for off-board fare collection.

This first application of super-stops, Super Stops 1.0 includes two Super-Stops on Delaware St; one at the northeast corner of New York Street & Delaware Street, and one on the northeast corner of North Street & Delaware Street. These Super Stops will serve Routes 2, 4, 5, 10, and 19. As part of this project, Fort Wayne Avenue will be converted from a one-way street to a two-way street between Pennsylvania and Alabama streets. There will also be a bus and turn only (BAT) lane installed on Delaware Street between Washington Street and Fort Wayne Avenue.

Planning efforts for this project were partially funded through the Green Line planning grant⁷ from the IMPO, with the remainder of planning resources and all construction resources to be funded through future revenue (cash). As of this update, Super Stops 1.0 continues to move forward as a local project that is being led by the City of Indianapolis, Department of Public Works (DPW), with a total estimated financial contribution from IndyGo of up to \$3.5 million towards the reconstruction of Delaware Street, two-way conversion of Fort Wayne Avenue, and construction of the two Super Stops on Delaware Street. IndyGo has spent \$2.6 million on the construction of Super Stops 1.0 using local funds (cash).

Super Stops 2.0: Alabama St, Ft Wayne Ave, Vermont St

As part of the planning work that took place for the network redesign that was expected to occur in 2020, Vermont Street was identified as a critical east-west connector across town for transit service. This street was selected, in part, to minimize potential conflicts with busier east-west streets and to provide a direct connection to bus rapid transit stops for the Red Line and Purple Line bus rapid transit corridors.

Super Stops 2.0 includes six super stop locations: two each on Alabama Street, Fort Wayne Avenue, and Vermont Street. The goal of the proposed improvements would be to provide increased levels of comfort and safety, and create seamless transfers between local buses, the Red Line, and the Purple Line (at the Vermont Street Super Stops). The Vermont Street Super Stops were added during the design phase. This project represents the second iteration of IndyGo's Super Stops projects and was originally intended to be funded using local resources only. The environmental review process has been completed and approved. The design phase is anticipated to be complete in late 2021.

Total cost for Super Stops 2.0 is estimated to be \$2.9 million. Depending on funding alternatives, it may also include resurfacing of Vermont Street between Indiana Avenue & Pennsylvania Street. In 2020, IndyGo applied for a Bus and Bus Facilities Grant to fund Super Stops 2.0 (and 1.0). While highly competitive, IndyGo's Super Stops project was not awarded a grant. As of this update, IndyGo is again applying for an FTA Bus and Bus Facilities Grant to pay for the construction of all six of the Super Stops in Super Stops 2.0. If awarded, construction could start as soon as 2022.

⁷ In the original *Indy Connect* plan, the Green Line was envisioned as a bus rapid transit corridor serving northeast Marion County extending into Hamilton County. During planning for the Green Line, feasibility issues associated with the route and its financial sustainability were identified; it was determined not to proceed with bus rapid transit planning for that corridor. The area of downtown for which this project is planned is within the planning area for the Green Line and meets the purpose for the funding source associated with planning activities for that area.

Table 23. Super Stops 1.0

Total Cost Remaining for 2022 (as of 8/2021)	\$70,000
Funding Sources	
MPO Green Line Grant	\$0
IndyGo Capital Cum Fund (Cash)	\$70,000
Uses (Remaining as of 7/1/19)	
Professional Services & Admin	\$0
Construction	\$70,000

Table 24. Super Stops 2.0

Total Cost Remaining for 2022 (as of 8/2021)	\$2,886,000
Funding Sources	
IndyGo Capital Cum Fund (Cash)	\$865,800
Grants	\$2,020,200
Uses	
Professional Services & Admin	\$635,000
Construction	\$2,251,000

Mobility Hubs Infrastructure

Completed in 2018, *IndyMoves*, the City of Indianapolis' transportation integration plan, calls for the City and IndyGo to work collaboratively to establish a mobility hubs program asserting that "mobility hubs can include transit connections, high-quality pedestrian and bicycle access, safety and comfort amenities (such as lighting, weather protection, and restrooms), wayfinding and trip planning information, ride-hailing pick-up and drop-off space, dedicated car and bike share parking, bicycle storage, real-time travel information, payment kiosks and fare vending, electrical vehicle charging, commuter services, and placemaking and public realm activation."

Budgeted at \$640,000 and born out of an FTA Mobility on Demand On-Ramp grant project, the Mobility Hubs Infrastructure project line item adopted as part of version 1.0 of this Capital Plan was initially intended to facilitate the strategic, co-location of mass transit and first/last mile mobility solutions throughout Marion County and in support of the rapid and frequent transit network. Throughout 2019 and into 2020, IndyGo worked with the John H. Boner Neighborhood Center and Englewood Community Development Corporation to develop the concept for a mobility district within the Near East Side with the goal of better connecting residents to social and economic opportunities, via public transit and other modes

Major transit facilities with multiple frequent connections are natural places to consolidate and organize mobility services.

of shared use mobility. IndyGo and the Boner Center – in partnership with the Personal Mobility Network, an initiative of the Central Indiana Community Foundation – finalized the Mobility Hubs business plan outline at the end of March 2020. This business plan, submitted to the Shared Use Mobility Center, was the final deliverable required of the FTA Mobility on Demand On-Ramp grant award. Technical assistance provided by the Shared Use Mobility Center concluded on March 31, 2020, which drew this project phase to a close.

All planning, siting, design, and construction activities were put on hold, indefinitely, as of May 2020. This was due in large part to having so few shared use mobility options in Marion County, which was further cemented by the exodus of Blue Indy, Indy's former carshare service. Furthermore, it has since been determined that – with the level of investment needed to adequately support a robust mobility hubs infrastructure program -- IndyGo would build upon the experience gained as part of the FTA Mobility on On-Ramp grant project to prepare a Mobility Position Paper that can guide existing and future investments in shared use mobility projects or programs. This document has been created and will continue to be a living/breathing document that will guide the agency in future policy and decision-making, not only for the future of mobility hubs, but other mobility investments such as mobility pilots and demonstration projects.

Other On-Street Infrastructure

<u>Transit Signal Priority</u> - Transit Signal Priority, or TSP, is a technology that permits transit vehicles to communicate with signals at intersections and give the transit vehicle priority over other traffic. These systems are designed to work with other systems providing "pre-emption" authority to emergency vehicles, in which the movement of emergency vehicles preempts all other traffic movements through an intersection, including buses.

IndyGo has and will continue to include TSP equipment in its BRT corridors; thus, contributing to the service reliability of the BRT system. Likewise, IndyGo will conduct analyses to assess the need for TSP systems elsewhere throughout its local service network to improve service reliability and secure operational efficiencies.

IndyGo had anticipated allocating \$1,691,600 from a CMAQ award and local revenue to fund the installation of additional TSP equipment throughout the network. Originally slated for completion in 2020, implementing TSP on IndyGo's entire local fleet (and on certain corridors throughout the city) have carried over into 2022 and will likely carry over into 2023.

Table 25. Transit Signal Priority Funding Sources and Uses

Total Cost	\$1,690,000		
Funding Sources			
2020 CMAQ - TSP	\$1,160,000		
IndyGo Capital Cum Fund (Cash)	\$290,000		
Uses			
Professional Services & Administration	\$100,000		
Construction	\$1,350,000		

<u>Rural Street Under Pass</u> - In accordance with the Transit Plan, IndyGo would like to provide crosstown service with a 15-minute base frequency along Keystone Avenue/Rural Street (Route 26). Due to clearance concerns where Rural Street passes below the CSX railroad tracks south of Washington Street, the Route 26 currently makes a substantial out-of-direction detour east to Sherman Drive.

This detour will become increasingly costly, requiring additional coaches and operators required to provide 15-minute service on this route. To improve and provide effective high-frequency service, IndyGo is proposing to alter Rural Street to increase clearance beneath the CSX railway. This would permit service to remain on Rural Street, eliminating the time-consuming detour, and improving the customer experience. In reviewing the fiscal and service impacts, IndyGo staff determined that a modification to the clearance height of the Rural Street underpass to be the most effective solution. For example, the deviation to Sherman Street costs IndyGo an additional \$700,000 (2021 dollars) per year to operate; requiring IndyGo to need to operate an additional bus than if it were able to simply continue service along Rural Street.

Based on its preliminary investigations, IndyGo had anticipated allocating a total of \$1,475,000 from local revenue to complete this project. As of this update, much of this project remains unfunded as the total project costs is expected to exceed the 2019 estimate of \$1.48 million. An IndyGo consultant will move forward with final design and NEPA on a preferred alternative beginning in 2022. IndyGo will explore possible grant opportunities in the future, however, the project may need to be funded with local dollars (cash).

Table 26. Rural Street Underpass Funding Sources and Uses

Total Cost (remaining)	\$7,320,000
Funding Sources	
IndyGo Capital Cum Fund (Cash)	\$7,320,000
Uses	
Professional Services & Administration	\$710,000
Construction	\$6,610,000

Table 27. BRT and other On-Street Infrastructure Funding Sources and Uses (Remaining)

	Red Line Phase I	Purple Line	Blue Line	Red Line Extensions	Two-Way Conversions	Transit Amenities	Super Stops	Mobility Hubs	Rural Street Underpass	Transit Signal Priority	Total
Small Starts - Blue			\$100,000,000								\$100,000,000
Small Starts - Purple		\$77,500,000									\$77,500,000
Small Starts - Red	\$12,890,620										\$12,890,620
FY2024 5307			\$6,047,994								\$6,047,994
FY2023 5307				\$5,889,577							\$5,889,577
FY2022 5307		\$5,339,879									\$5,339,879
2023 STP/CMAQ				\$4,595,827							\$4,595,827
FY2021 5307		\$4,455,390									\$4,455,390
FY2020 5307		\$3,999,978									\$3,999,978
FY2019 5307		\$3,729,939									\$3,729,939
FY2017 5307		\$2,800,000									\$2,800,000
FY2024 5339				\$2,295,691							\$2,295,691
FY2023 5339			\$2,269,803								\$2,269,803
FY2022 5339			\$2,179,973								\$2,179,973
FY2021 5339			\$2,035,432								\$2,035,432
FY2020 5339			\$1,961,009								\$1,961,009
2020 CMAQ - TSP										\$1,353,280	\$1,353,280
Green Line Grant											\$0
FY2023 5307			\$0								\$0
FY2019 5339			\$0								\$0
Grant Subtotal	\$12,890,620	\$97,825,186	\$114,494,211	\$12,781,095	\$-	\$-	\$-	\$-	\$-	\$1,353,280	\$239,344,399
DPW		\$1,200,000	\$1,200,000	\$700,000							\$3,100,000
Airport TIF			\$12,500,000								\$12,500,000
Joint Development			\$2,000,000								\$2,000,000
Other Subtotal	\$0	\$1,200,000	\$15,700,000	\$700,000	\$0	\$0	\$0	\$0	\$0	\$0	\$17,600,000
Cash	\$3,222,655	\$38,842,944	\$19,084,189	\$25,518,905	\$6,500,000	\$4,451,262	\$4,836,200	\$0	\$0	\$336,720	\$102,792,875
Bonds		\$12,867,870	\$67,382,601			\$848,738					\$81,099,209
Total	\$16,113,275	\$150,736,000	\$216,661,001	\$39,000,000	\$6,500,000	\$5,300,000	\$4,836,200	\$0	\$0	\$1,690,000	\$440,836,476

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FACILITIES

As part of its ongoing operations, IndyGo regularly engages in maintenance and rehabilitation projects to maintain its primary facility at 1501 W Washington Street. This facility continues to house IndyGo's administration, operations, maintenance, and drivers' facilities. Beyond routine maintenance and rehabilitation projects, this facility has and will continue to require several upgrades to enable service increases associated with the implementation of IndyGo's capital investment program, which includes the Transit Plan.

In 2019, IndyGo acquired a portion of the former Carrier Bryant site to construct a training and contingency site. Collectively, these efforts were to have positioned IndyGo to remain effective and efficient in providing transit service and adequately house an increase in both its fleet and number of employees to successfully implement the Marion County Transit Plan.

The need for additional physical space as the agency and transit services scale is now coupled with the need to provide a post COVID-19 office environment. In response, IndyGo has purchased several additional properties and thusly taken on additional renovation costs to ready these new facilities for occupancy. These renovations require design services, construction, and equipment purchases, as well as an increase to on-going operations and maintenance costs. As of this update, the total budget needed to adequately fund IndyGo's facility projects exceeds \$24 million.

Remaining Project List (both planned/budgeted and illustrative projects)

- East Campus (NEW as of 2021)
- Level board modifications and in-ground charging at the Julia M. Carson Transit Center (CTC)
- CTC lounge and office area renovations
- Building exterior improvements and masonry repair at the 1501 W Washington Street location
- Maintenance area garage renovations (includes fall protection and catwalk)
- Sidewalk, steps, and ramps at 1501 W Washington Street
- Concrete driveway and loading dock
- Board Room and lobby improvements at 1501 W Washington Street (NEW as of 2020)
- Garage conversion, AC to DC to further accommodate 40' and/or 60' electric buses (NEW as of 2020)
- Mobility Solutions & Customer Care Center Interior Renovations project
- Solar array expansion project (now part of the Mobility Solutions & Customer Care Center)
- S Madison Street Park-n-Ride (NEW as of 2021)
- Security Screen Doors & Exterior Doors Improvements (Scope Reduced in 2021)

Completed Project List

- Office area renovations at 1501 W Washington Street (including furniture)
- Bus charging infrastructure for the 60' AC, BYD buses
- Wash rack replacement, door widening and paint booth
- Drivable floor scrubbers/sweeper
- Facility Needs Assessment
- Design Project for the New Training Facility at the former Carrier Bryan location
- Design for the Security Screen Doors & Exterior Doors Improvement
- Design for the Solar Array Roof Expansion

Retired Project List

- Training and Contingency Facility Purchase & Renovation at the former Carrier Bryant industrial site
- Additional contingency site equipment: dispatch and generator
- Storage barn retrofit

The following pages include descriptions of IndyGo's larger facility projects. In 2020, the total programmed cost for all facility projects in 2021 was \$3,985,000. As of August 31, 2021, IndyGo has spent \$4,556,090 on facilities. It is anticipated that IndyGo will need to continue this level of investment in 2022. The 2022 budget for the East Campus is \$17.5 million. Other major facility investments include the garage conversion at 1501 W Washington Street to convert from AC to DC power (\$2.7 million in 2022) and level boarding and in-ground charging at the CTC (\$570,000 in 2022).

East Campus

As the agency continues to grow and respond to the need to maintain a safe, post-COVID office environment, the space needed to safely accommodate staff and adequately house operations has shifted. IndyGo's East Campus renovation/buildout includes three projects.

East Campus Administration is the renovation of the administration area that will house President/CEO office, Execuitive meeting room, offices for most of the executive team and supporting staff. It will also include space for the IndyGo Foundation, several meeting rooms, and additional security measures for staff.

East Campus B Building will be renovated to include an elevator, creating a board room/large meeting space, offices for IT department and office space for Purple Line construction management team on the first floor. The second floor will be dedicated to Training, which includes the creation of a Learning & Development Center consisting of two large training rooms, four simulator rooms with a control monitoring station, a computer lab and computer training room. Additionally, there will be a lactation room, a model bus, and additional offices for staff.

Building "C" (offices & dorms) will be demolished to make way for the East Campus Fleet Terminal for IndyGo's operations. This project requires a redesign of the on-site drainage system, the construction of a two-story facility to house a garage to house about 125 -140 buses, four maintenance bays, and offices on the first level. The second level will be dedicated office space for IndyGo's Operations staff. Also to be included in the Terminal is a cafeteria, small workout area, restrooms/locker rooms, and meeting room space.

Garage Conversion

Recently upgraded to add electrical capacity and AC chargers for IndyGo's 60' electric buses, the chargers in the garage must now be converted from AC to DC to further accommodate 40' and/or 60' electric buses. The purpose of this project would be to install two types of universal DC chargers in the garage in preparation for new 40' and/or 60' buses. Established in 2020, the estimated timeline for this project is seven months. In 2020, it was estimated that the total cost for this project would be approximately \$2.74 million; however, no a timeline for when this work would start or end was established. Once completed, IndyGo would gain increased utility usage and increased efficiency for vehicle charging and accommodate other vehicle manufacturers. As of this update, \$2.72 million has been budgeted in 2022 to move this project forward.

Additional Maintenance & Paratransit Facility

IndyGo has historically relied on its contracted paratransit service provider to house its own operations and maintenance facility as part of its paratransit service contract, passing on the costs of doing so directly to IndyGo in the form of a lease. This arrangement was shown to increase IndyGo's costs to provide paratransit service and introduce risks in association with a service disruption; if the contractor became unable to meet its contractual obligations.

In 2020, IndyGo identified a facility located at 2425 W Michigan Street. This facility is of the requisite size, condition, space, and location to house both its paratransit and call center operations. Spaces within this facility are currently being renovated/retrofitted to create the following:

- An assessment center, with office space and an open area for physical assessment;
- A maintenance area with three bays and parts storage;
- A dispatch area with six stations;
- A service center with two transaction windows;
- A breakroom area with lockers and a guiet area;
- Additional offices;
- A meeting room; and
- Additional restrooms.

The construction schedule is aggressive to move staff into the facility and close the project out before the end of 2021. The exterior construction for bus storage and wash will begin in the spring of 2022.

Solar Array Expansion

As part of its transition from a diesel fleet to a green fleet, and to reduce costs associated with powering its fleet, IndyGo installed a one-megawatt hour (MWh) rooftop solar array at its primary administrative and operations facility in 2015. The existing rooftop solar array spans four acres and includes 4,300 panels, and cost \$2.5 million (in 2015 dollars) to install. The array is rated to generate one-megawatt per hour at its peak performance. These solar panels were originally installed with the intent of offsetting the charging infrastructure needs of the 21 electric buses in IndyGo's fleet at that time.

With the ongoing transition to a green fleet – one that includes battery electric vehicles, IndyGo will continue to consume more electricity. To offset some of the electrical demand (and increased costs) generated by the additional battery electric buses in the future, IndyGo had sought to expand its solar arrays atop the roof of the main facility located at 1501 W Washington Street. This effort was the focus of a competitive grant application to the FTA's Low-No Emissions program in 2018. And IndyGo was successfully awarded \$980,000 from this program, or 70 percent of the total project cost.

IndyGo was in the process of planning and designing the solar array expansion, with the intent to install the array beginning in Q4 2020. However, a re-examination of the costs associated with the eventual replacement of a roof with (and without) a solar farm, led staff to reconsider installing the new solar arrays on the roof of the main facility. IndyGo has identified the solar placement at the new paratransit facility (Mobility Solutions & Customer Care Center) located at 2425 West Michigan on the new bus storage canopies. The initial budget of \$1,400,000 is

programmed for this project considered a 70:30 split between a secured grant award and a \$420,000 local match paid for out of IndyGo's capital fund. The project is set to finished construction in 2022.

Level boarding Modifications & In-Ground Charging (CTC)

Having a place where a boarding or alighting passenger can step on or off the bus onto a platform that is level with the floor height of the bus has been shown to significantly reduce dwell times for buses and reducing dwell times is the primary reason level boarding modifications are considered a key requirement for bus rapid transit service. There are benefits for all users; however, level boarding is especially beneficial for passengers using assistive mobility devices, strollers, and bicycles.

When the transit center was initially designed and constructed, level boarding platforms would have been largely incompatible with IndyGo's existing local bus fleet. However, the buses being used on the bus rapid transit corridors, and the introduction of the Purple and Blue bus rapid transit routes in the upcoming years, IndyGo will need to retrofit five bays of the transit center to serve the bus rapid transit vehicles making level boarding modifications a component of this work. Moreover, the level boarding platforms at the CTC will ensure that the configuration of the bays provide accessibility to bus rapid transit lines.

IndyGo had anticipated expending a total of \$1,700,000 in 2022 to complete the modifications, with funding derived from local revenue (cash). These efforts were to have been funded separately from the bus rapid transit projects funded through the Small Starts projects outlined previously. As of this update, this project has been programmed separately so that it can be completed by in advance of the Purple Line entering service. The total budget for this project is \$570,000 (2022).

CTC Lounge and Office Area Renovations

To accommodate the growth in IndyGo staff associated with the implementation of the Transit Plan, modifications and renovations to the interior of the CTC will be necessary. Most importantly, with the growth in the number of operators providing IndyGo service, the already crowded operator lounge will need to be expanded to accommodate more drivers. Additionally, the office spaces on the first and second floors will be adapted and modified for a different use. In January 2020, IndyGo retrofitted and furnished the second-floor office space to potentially house the IndyGo call center. It was through this design work that IndyGo determined that an assessment would be needed regarding the first-floor office space. In total, these renovations are expected to total \$750,000, and be derived from local revenue (cash). As of this update, \$125,000 can be allocated to this project. The work is expected to be completed in 2022.

Illustrative Projects: Facilities

In addition to those projects for which future capital sources have been identified and programmed, IndyGo is aware of other projects that would be beneficial to the agency, its operations, and/or the experience of its riders should funds become available.

These projects are listed as "Illustrative Projects" in this capital plan. This language is modeled after projects in the IMPO's Transportation Improvement Program meaning the project and its coasts are noted, but costs are not included in the fiscally constrained plan.

Maintenance Garage Area Renovations - Several renovations were planned for the maintenance area in the facility located at 1501 W Washington Street to accommodate additional vehicles, larger vehicles, and the increased number of mechanics that will be required to service the fleet. These efforts were to have been sequenced in such a way as to minimize disruption to operations and to ensure that the facility is able to accommodate the BRT vehicle fleet. The initial list of sub-projects associated with these renovations included converting pit bays to parallelogram lifts, relocating maintenance supervisor offices, relocating maintenance technician facilities (restrooms, offices, lockers, and computer lab), adapting to accommodate BRT buses, expanding the welding bay, constructing fall protection and catwalk, among other changes. These projects were expected to total \$3,400,000, with funding derived from grants and future local revenue (cash). They were to have been completed between 2019 and 2021. They have since been placed on hold.

Building Exterior Improvements & Masonry Repair - To maintain its headquarters facility in good condition and limit future renovation expenses, IndyGo must maintain a budget for ongoing maintenance and improvements. This project is due to needed repairs on the historical Duesenberg portion of IndyGo's 1501 W Washington Street facility. Windows, tuckpointing repair and some masonry work is currently needed, which will require coordination with Indianapolis Historic Preservation Commission. In 2019, this plan included capital dollars for repairs to structural cracks and lintels in the masonry structure, concrete driveway replacement, and a reconfiguration of the loading dock. These improvements were originally scheduled to be completed between 2021 and 2022. These improvements were to have been funded through a combination of grants and IndyGo local revenue (cash). An assessment for the need was performed in 2018 as a part of the facility assessment that resulted in major office renovations. At that time, the total cost of the improvements was anticipated to be \$1,400,000. The current cost for these improvements remains unchanged, and these structural on the masonry structure and lintels is expected to be completed by the end of 2021.

<u>Concrete Driveway and Loading Dock</u> - The existing driveway surrounding the IndyGo facility at 1501 W Washington Street —where buses enter and exit the facility—is aging and in need of replacement. The loading dock is also in need of preventative maintenance, repair, and renovation. These efforts could be phased in such a way that they are completed after several other projects to prevent deterioration associated with heavy construction traffic. This project is anticipated to cost \$1,100,000 but is still unfunded.

<u>Sidewalk, Steps, and Ramps</u> - Among other renovations and repairs necessary for IndyGo's main administrative and operations facility, the steps, handicap ramps, and sidewalks around the main entrance of the facility are mostly original to the building. Over time, IndyGo has engaged in patching and minor repair work, but the infrastructure is reaching the point where a substantial repair is necessary as there are currently numerous cracks and unevenness in sidewalks, curbs are starting to deteriorate, and steps are starting to show wear.

IndyGo had planned to invest \$200,000, programed from local revenue, to support this project. However, this project was placed on hold in 2020. As of this update, total construction cost is still estimated to be \$200,000; however, this project is still on hold.

<u>Board Room & Lobby Improvements</u> - Formerly included as part of <u>Maintenance Area Renovations</u>, this sub-project would renovate the IPTC board room to bring it up to date with technology and to update the finishes and replace furniture. Likewise, the lobby improvements would be made to make the area more welcoming. In addition to updating/repairing the flooring, the lobby restroom would be upgraded to become ADA accessible, and the security

desk would be repaired. It was anticipated that this work would begin in Q2 of 2021 and take four to five months to complete. Last examined in 2020, total cost is estimated to be \$580,000. This project is still on hold.

Fall Protection & Catwalk - With the increase in both the number and the variety of vehicles housed at 1501 W Washington Street, fall protection is needed for the additional bays in the garage. The inclusion of a catwalk will further aid in the safety of the staff. It is anticipated that this work would take approximately 4 months to complete. In 2020, it was estimated that the total project cost would be \$540,000. However, it hasn't yet been determined when this project will be pursued. Although, any facility built-to-suite or renovated to accommodate IndyGo operations and maintenance would be constructed or renovated to include fall protection and catwalk where fall protection is needed.

<u>Maintenance Garage Area Renovations</u> - Formerly part of <u>Maintenance Area Renovations</u>, this sub-project includes the locker rooms, Center Lounge, IT offices and exercise area, as well as all the remaining work in the garage. The garage portion includes new overhead screen doors (doors one, two, eight and nine), the build out of additional office spaces, relocation of the fishbowl, and restroom upgrades. Construction would likely take six months to complete. In 2020, it was estimated that the total cost for these improvements would be \$2,350,000. This project is still on hold.

Completed Projects: Facilities

The following projects have been completed.

<u>Facility Needs Assessment</u> - IndyGo has long considered the utility of owning its own paratransit facility. The training and contingency facility was considered, in part, to be adaptable to serve as a paratransit facility in addition to a training site. Further, as IndyGo's fixed route operations expand in terms of the number of buses, span of service, and size of operator/maintenance staff, IndyGo has an opportunity to comprehensively evaluate its needs, opportunities, and challenges with respect to its facilities relative to its service(s).

In 2018, IndyGo completed a facility needs assessment. This study kicked off the office renovations, maintenance area renovations project, and vehicle wash/paint booth/door widening project. It also helped to identify how much space would be needed for a new paratransit facility (115,000 sf) and a new training facility and driving course (10,000sf + 3,600 sf), for example. One hundred thousand dollars, in cash, was set aside for 2020 to cover the mezzanine project identified by the 2018 facility needs assessment. And while the mezzanine project has yet to move forward, the COVID pandemic has resulted in a need to update the full facility needs assessment; a project that remains as an illustrative project at this time.

<u>Office Area Renovations (including furniture purchases)</u> - As the number of IndyGo employees grows, substantial renovations are necessary to house the staff and their job functions. In addition to adding office space, IndyGo must ensure adequate conference space for meetings and ancillary activities. Office renovations included creating a more open administrative area, with additional meeting rooms, offices, retrofitting the south lounge for operators, renovating the restrooms and adding a unisex restroom, renovating dispatch, reconfiguring office layout to accommodate Operations staff, reconfiguring and creating a secure area for HR and adding higher level security

measures with ballistic doors, and a South security desk. In 2020, IndyGo completed its last major renovation at its headquarters located at 1501 W Washington Street.

For this phase, office area renovation expenses were expected to total \$2,380,000 between Q3/Q4 2019 and Q1/Q2 2025. Completed in Q1 of 2020, total expenditures for this project (i.e. furniture and construction) were \$2,293,936. These funds were derived from future local revenue (cash). This project is complete.

<u>Bus Charging Infrastructure</u> - As IndyGo implements bus rapid transit service and shifts more of its fleet to electric-propulsion vehicles, it must install additional charging infrastructure throughout the maintenance and operations facility and increase the capacity of electrical service to its facility. The addition of this charging infrastructure will enable IndyGo to pursue its long-range bus replacement plan, which had initially called for introducing an average of eleven new fixed route electric-propulsion buses annually between 2021 and 2035, as well as 56 new 60' electric BRT vehicles between 2018 and 2022. IndyGo had initially projected that, by 2032, it would have a total of 195 buses in its fleet (56 BRT vehicles and 149 in local service); all of which were to be electric buses. This project, the installation of AC chargers for the 60' BYD buses, began in 2018 and was completed in 2020. Final construction costs for this project totaled \$2,588,574. See also <u>Garage Conversion</u> on the following pages.

<u>Wash Rack Replacement, Door Widening & Paint Booth</u> - Washing and maintaining buses requires additional infrastructure beyond what would typically be used in commercial car washes. Most obviously, these wash racks must be able to accommodate much larger vehicles than standard car washes. Further, the system needs to be designed in such a way to remove salt and grime that is accumulated through regular transit service. These services also need to be able to be performed without impacting the finish of the bus. IndyGo's previous wash rack was antiquated and in need of an upgrade to effectively service an expanded fleet. To attract bidders to the project, door widening, and paint booth projects were added to this project.

To keep the fleet in good condition, IndyGo needed to add a down-draft paint booth. These paint booths help manage airflow and control of paint spray by forcing air through the paint area and minimizing errant spray. Completed in August 2020, the new system allows IndyGo's maintenance team to operate more efficiently and service more buses, a necessity with the increase in service.

For this entire project, IndyGo had anticipated spending \$2,600,000 across 2019 and 2020, with resources derived from grants and local revenue. In total, these projects cost approximately \$2,336,000 and were paid for with grant dollars.

<u>Drivable Floor Scrubbers/Sweeper</u> - IndyGo uses a drivable floor scrubber/sweeper to maintain its facility to clean garage floors, bus bays at the transit center, and other concrete surfaces. This equipment is necessary to properly clean and sweep trash, oil, grease, and other fluids in these areas, as well as IndyGo parking lots. In turn, this regular maintenance extends the useful life of these facilities.

IndyGo's previous floor scrubber had reached the end of its useful life when it came to interior spaces. During the winter months, the previous scrubber could not keep up with the salt and debris that the buses brought into the facility. At the time that version 1.0 of this capital plan was adopted, IndyGo lacked the equipment necessary to service its exterior facilities; electing instead to contract with an outside vendor to perform this work.

This project supported the replacement of the internal floor scrubber, as well as the purchase of a scrubber/sweeper that could be used in outdoor operation. The programmed budget was \$250,000 and it was thought to be needed in 2019 to support these purchases. In 2019, IndyGo bought three Walk Behind Scrubbers for a total of just over \$19,700. In 2020, the agency bought two drivable scrubbers for a total of just under \$140,000. This project was completed in 2020 and ended up being locally funded. The grand total for this project was just over \$158,000 and came in approximately \$92,000 under budget.

Retired Projects: Facilities

These projects were, at one point, included as part of IndyGo's capital investment program but have – over time – been retired.

<u>Training and Contingency Facility Purchase & Renovation</u> - IndyGo had planned to construct a new facility at the former Carrier Bryant industrial site in the Riverside neighborhood for training operations and to serve as IndyGo's contingency operations location. This facility, which grew from approximately 6,000 square foot to approximately 10,000 square feet throughout the design phase, is/was intended to house classrooms, training equipment, a full-size maintenance bay for maintenance training, and materials/equipment necessary to serve as a contingency site. The site, had it been developed as planned, would have also housed a large concrete lot and Commercial Driver's License (CDL) training course, complete with a mock BRT station. The training site was also designed to serve as a temporary emergency staging ground. Should such an event occur, the training classrooms would have served as office space for mission critical staff.

IndyGo had initially allocated \$4,900,000 across the 2019 and 2020 fiscal years to acquire, construct, and outfit the new facility. Funding for the project was to be derived from IndyGo's existing bond and local revenue (cash). Bids for this project were sought in January 2020 and each one came in more than \$2 million overbudget bringing the newly estimated cost to more than \$6.9 million. As of this update, IndyGo is working to identify a new use for the property.

Storage Barn Retrofit - On property, there is an existing storage barn located behind the South Parking lot. The barn currently houses some items for Facility Maintenance at 1501 W Washington Street; however, it could be retrofitted to store more items. The purpose of this project would be to clear the storage barn, retro fit the barn with additional shelving and installation of an HVAC unit for climate control. In doing so, items that are currently stored in the garage could be moved to the storage barn, thus freeing up much needed space in the garage. The anticipated start date for this work was Q2 2021 and was thought to need several months to complete. This project was removed all together in 2020 when it was decided that IndyGo would have to grow its operations through property acquisitions instead.

Additional Contingency Site Equipment: Dispatch & Generator — As noted above, IndyGo had pursued the (re)development of a contingency and training site. There are several expenditures that would have been necessary to accommodate this site for it to become a fully equipped operations center, including a generator and dispatch equipment. Such equipment would have expanded the usefulness and adaptability of the training and contingency facility and help to ensure continuity of operations should IndyGo's primary facility become inoperable for a prolonged period of time.

Table 28. Facilities Funding Sources and Uses (total project costs)

	Office Area Renovate	CTC Level Boarding	CTC Office Renovate	Bus Charge	Facilities	Building Exterior	Maint. Area	Wash Rack / Paint Booth & Door Widen	Floor Scrubber	Sidewalk, Steps & Ramps	Solar Array	Facility Needs Assess.	Total
IN90X683-11.44.03								\$1,415,004					\$1,961,347
IN-2016-024-11.44.03													\$1,041,107
Solar Array Low No											\$980,000		\$980,000
IN-2019-001-11.12.15													\$880,000
IN90X668-11.44.03								\$1,600,365					\$752,190
IN-2019-001-11.12.15													\$677,598
IN-2019-001-11.42.20				\$91,269									\$91,269
IN-2019-001-11.44.03								\$13,663					\$13,633
Grant Sub Total				\$91,269				\$1,902,368			\$980,000		\$6,383,511
Cash	\$2,380,000	\$1,700,000	\$750,000	\$408,731	\$1,796,517	\$1,400,000	\$3,400,000	\$1,126,663	\$250,000	\$200,000	\$420,000	\$100,000	\$10,093,006
Bonds					\$3,103,483								\$3,103,483
Total	\$2,380,000	\$1,700,000	\$750,000	\$500,000	\$4,900,000	\$1,400,000	\$3,400,000	\$3,029,031	\$250,000	\$200,000	\$1,400,000	\$100,000	\$19,580,000



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FINANCE

Enterprise Resource Planning (ERP)

ERP is a business process by which core managerial functions of an organization or business are integrated into one single, comprehensive, and integrated system to manage agency's business. ERP systems enable the streamlining of information across an agency and may include functions such as accounting, budgeting, human resources, inventory, work order management, projects & grants management, procurement, and other functions. The main purpose of an ERP system is to increase organizational efficiency of an organization by managing and improving how organizational resources are utilized.

IndyGo's current ERP platform is needed to be upgraded and migrated to the cloud based solution to employ up-to-date technology which provides support for progressive business practices and provides greater flexibility in reporting. The existing platform will soon no longer be supported by Microsoft and as such was brought to the Board. In March 2021, the IPTC board approved engaging Crowe, LLP. to implement the migration and upgrade to Microsoft D365 for IndyGo. The process began in May 2021 and will continue into 2022. Total project cost is anticipated to be \$996,400; funded entirely with local revenue. As of this update, \$141,036 has been spent to advance this project.

Farebox Replacement Plan

Historically, IndyGo has relied on its fareboxes to count passenger trips. Efforts are underway to implement the new MyKey fare collection system and upgrade APCs, which – upon completion – would allow IndyGo to discontinue its use of the GTFS (i.e. farebox) system to estimate ridership. Per IndyGo's 2019 fare policy, the farebox system will remain in place, indefinitely, so long as the need to accept cash and print day passes and two-hour transfer tickets on the local buses remains unchanged. In the meantime, several existing fareboxes have reached the end of their useful life and IndyGo needs to maintain its replacement schedule. This typically results in the need to order and receive 25 fareboxes per year. As of this update, the total cost for this project between 2019 and 2024 is \$2,064,603. \$1.17 million is anticipated to be incurred between 2022 and 2024.

Payment Integration Platform

As noted below, IndyGo is working with Flowbird to develop and implement a modernized fare payment system. While this system itself represents a significant upgrade to how the public pays for and experiences the transit system, the platform can serve to revolutionize the shared mobility system throughout IndyGo's service area through payment integration with other mobility providers. As part of a RFP process that resulted in the selection of Flowbird, IndyGo listed a system architecture that could provide for these integrations and the potential for enhanced partnership portals as part of its desired outcomes. Flowbird's system design includes such an architecture that can be adapted to expand into an integrated payment platform with limited technical upgrades.

In late 2020, it was announced that IndyGo would be the recipient of an Accelerating Innovative Mobility (AIM) grant from the Federal Transportation Administration (FTA). The purpose of this grant program is to facilitate new and innovative strategies for facilitating trips not just on public transit but also other non-automotive modes of transportation. Conceived of under a 2019 Integrated Mobility Innovation (IMI) grant application, IndyGo's proposal under the AIM Challenge Grant to develop a "Mobility Concierge Program" is part technological solution and part customer care center solution. In short, it is a service that would be designed to facilitate trip planning, booking,

and payment across multiple modes and service providers in the Indianapolis area. Total project budget is \$500,000 (\$400,000 federal and \$100,000 local). This work is on-going.

Illustrative Projects: Finance

In addition to those projects for which future capital sources have been identified and programmed, IndyGo is aware of other projects that would be beneficial to the agency, its operations, and/or the experience of its riders should funds become available.

These projects are listed as "Illustrative Projects" in this capital plan. This language is modeled after projects in the MPO's Transportation Improvement Program meaning the project is noted but costs are not included in the fiscally constrained plan.

<u>Fare Modernization</u> – In 2017, IndyGo underwent an internal fare study to inform IndyGo's future fare system(s), fare policies, fare structures, and fare collection technologies. The ideal solution was identified to be a comprehensive system, able to operate seamlessly across IndyGo services—BRT, local fixed route, and paratransit—and be convenient and accessible to users.

Through a competitive procurement process, IndyGo selected Parkeon (d/b/a Flowbird) to help lead in its fare system modernization efforts. Once completed, IndyGo riders will have several ways in which riders can pay fares, including but not limited to paying through a smart device (such as a smart card) linked to an account, a mobile ticket, other forms of proof of payment, and cash. This system will support fare validation and fare enforcement activities on IndyGo's bus rapid transit system.

Having an initial completion date of 2019, work on this project began in the second half of 2018 and continued into 2021. IndyGo had expected to invest a total of \$4,268,678 in this project; \$3,373,937 of which were to be capital costs. IndyGo had further anticipated needing an additional \$1,338,000 in 2019 (also derived from IndyGo local revenue). Staff is currently developing new set of cost estimates for both capital and operating costs for future budget years.

INFORMATION TECHNOLOGY

Wireless Vehicle Communication (Install)

IndyGo requires enhanced mobile data communication capabilities, bandwidth, and speed to meet data transmission requirements for its transportation platforms. Prior to the completion of this project, IndyGo used the city's public data radio network which, at the time this project was initiated, was nearing the end of its useful life in terms of its functionality for IndyGo's purposes. This functionality is especially critical in supporting real-time data functionality for IndyGo dispatch, telematics, passenger information, and safety and security functions across platforms.

These systems need periodic upgrading to keep up with technological advances. Beyond that, upgrading these systems offers enhanced data collection capabilities, more accurate location and schedule data, and tracking performance metrics. These upgrades were also a prerequisite for other systems IndyGo is pursuing and are now used to provide wireless access for IndyGo passengers. These upgrades were completed in 2019. The budget for this project was \$820,000. These funds were to have been derived from IndyGo local revenue. Actual expenditures for this project totaled \$695,785.

ITS Upgrade (CAD/AVL)

IndyGo is committed to identifying and deploying the industry standard (or better) with respect to technological tools that enable it to manage its operations and serve its customers. One tool advancing this commitment—and allowing for the collection, analysis, and dissemination of reliable data of its existing fleet of transit vehicles—is a Computer Aided Dispatch/Automatic Vehicle Location (CAD/AVL) system, which, as of 2020, includes the upgrade of Automatic Passenger Counters (APCs) on the majority of IndyGo's fixed route fleet.

In late 2017/early 2018, IndyGo selected Avail Inc. to replace IndyGo's previous CAD/AVL system with state-of-the-art Intelligent Transportation System (ITS) solutions that provide enhanced functionality for data collection, real-time information, web and mobile application capabilities, and the potential for integration with other services. Avail's systems continue to be deployed across IndyGo service platforms—BRT, local fixed route, and paratransit services—and support vehicles.

This most recent ITS upgrade was completed in 2021. The original project budget was \$5.3 million; sourced from grants and local revenue. Completed in 2021, IndyGo spent \$4.9 million for this most recent upgrade. This included \$191,000 for the APCs upgrades in 2020. Not included in the final implementation was the ITS upgrade for IndyGo's paratransit system. This service was removed from the Avail contract award and awarded to Ecolane in 2020. Staff is currently developing a new set of cost estimates and specifications for its next upgrade.

Hastus Software Upgrade

GIRO, Inc. provides the HASTUS software solution for route scheduling and planning, customer comment tracking, and daily operational functions. Adapted for multiple platforms, HASTUS provides advanced operations optimization techniques and powerful data-management tools. IndyGo has used HASTUS since 2005, upgraded the system in 2015, and upgraded the system again in 2020.

The platform includes modules for Planning, Scheduling, Operator Bid, Self Service, Bid Web, Daily Operations, Employee Management, Customer Service, and web-based route planning information systems. The Daily Operations Module manages operator payroll and attendance as well as Operator Bidding and Employee Management. The Planning side provides all data from bus stops and shelters to route schedules and operator work shifts. The customer services module manages comments as well as trip planning via the website and other real-time platforms. IndyGo had programmed \$800,000 in Q3/Q4 of 2020 for the upgrade, with resources drawn from a combination of grants and cash. As of this update, the project is in the testing phase for Scheduling. The testing for Daily operations will be in Q4 with an expected Go Live in Q1 2022.

Data Warehouse

As part of the implementation of the IndyGo 10-year *Strategic Plan*, adopted by the Board of Directors in February 2019, IndyGo is committed to establishing and sustaining a performance-driven organization. As part of this effort, IndyGo staff are working collaboratively to identify, define, and develop key performance indicators (KPI) for the agency and for individual departments and divisions. IndyGo currently has several systems that generate agency data that can be helpful in monitoring and assessing performance; however, these data sets are often housed across various systems that do not easily communicate with each other. The goal of this project, which also supports the strategic planning goal, is to implement a centralized data warehouse that would serve as a clearinghouse and aggregator of data from across agency systems. This system would serve as the back-office engine for any employee- and/or public-facing KPI dashboards and provide easier access to agency data for

analysts. Total project budget for this project is \$64,000 paid for using IndyGo local revenues. As of this update, the data warehouse project has been placed on hold until such time as the logistics involved to move all capable application platforms (Microsoft Dynamics AX to D365, HASTUS, Ecolane, Avail replacement, etc.) to a cloud-based system, and pending the outcome of the Operations Team's current performance initiative. The soonest these determinations could be made is Q4 FY2023.

Table 29. IT Funding and Uses (total project costs)

	ERP	Fare Collection	Wireless Vehicle Comms	ITS Upgrade (CAD/AVL)	Hastus Upgrade	Data Warehouse	Disaster Recovery BCP	Total
IN-2016-016-11.42.08				\$1,153,245				\$1,153,245
IN-2016-016-11.71.03				\$660,629				\$660,629
IN95X046-11.71.03)							\$651,741	\$651,741
IN95X046-11.42.08					\$251,267			\$251,267
IN-2017-018-11.42.20				\$32,000				\$32,000
IN-2020-019							\$1,232,500	\$1,232,500
Grants Sub Total	\$0	\$0	\$0	\$1,845,874	\$251,267	\$0	\$1,884,241	\$3,981,382
Cash	\$1,000,000	\$1,338,000	\$820,000	\$529,126	\$548,733	\$64,000	\$173,259	\$4,473,118
Total	\$1,000,000	\$1,338,000	\$820,000	\$2,375,000	\$800,000	\$64,000	\$2,057,500	\$8,454,500

Illustrative Projects: Information Technology

In addition to those projects for which future capital sources have been identified and programmed, IndyGo is aware of other projects that would be beneficial to the agency, its operations, and/or the experience of its riders should funds become available.

These projects are listed as "Illustrative Projects" in this capital plan. This language is modeled after projects in the MPO's Transportation Improvement Program meaning the project is noted but costs are not included in the fiscally constrained plan.

<u>Radio Replacement</u> - Radio communication is critical to providing efficient service to the operators in the field and support the overall operation. Added in 2020, this project is needed to support the communication needs of the Transportation Department. The additional stations will allow the department to have more equipment available for staff use, and to deploy to coaches as back up. This procurement would be for 15 radios, 65 replacement radio batteries, and 100 replacement extended antennas for a total project cost of approximately \$79,000. As of this update, this project remains unfunded.

<u>Secure Communications Network</u> - IndyGo desires to enhance its communications network to make communications more secure. Such could be achieved through a dedicated, secure communications network that would utilize a microwave or small cell technology at our BRT stations. This service could further be adapted to operate across the entire IndyGo fleet. Through such a project, the planning and design phase would seek to identify and resolve logistical issues related to expansion and existing infrastructure. It is anticipated that this project could result in a substantial cost savings relative to our current operations with respect to communications.

This project is currently on hold until IndyGo can identify a funding source for this project (which may not occur until 2023/2024). There are several logistical issues with the expansion, particularly with infrastructure (i.e. using

our covered stations for communication relays and the licensing fees for that) and identifying alternatives. IndyGo staff will identify potential grant opportunities that could support the planning, design, and implementation of this rather complex project/system.

<u>VOIP Solution</u> - IndyGo transitioned itself to a cloud-based voice communications system (VoIP) in 2017. By comparison, this project seeks to establish a contract with a VoIP provider over a three-year term (with optional two years) to garner better pricing and support. Key components of the solution include enhanced administrative capabilities, interoperability with existing assets, enhanced mobile and desktop capability, distinguished admin portal security levels, call recording storage and archiving, unified messaging, enhanced conference calling and optional eFaxing.



In 2021, the costs associted with this project were able to be covered using 2021 operating expenses and ceased being a capital project.

OTHER

Prior to 2021, IndyGo's public affairs team was responsible for internal and external communication, business development, enhancing the rider experience, promoting customer service, advancing several special projects, engaging with advertisers, and assisting in translating the community's needs into agency initiatives. These tasks rely on exceptional communication and reliable communication infrastructure.

As such, the capital needs associated with exceptional communication and reliable communication infrastructure are meant to enhance the agency's ability to facilitate communication within the agency and between the agency and its riders and other partners. Prior versions of this capital plan included programmed expenditures for an agency intranet, outfitting the IndyGo call center, and for development activities associated with an IndyGo mobile application all under the purview of the former Public Affairs Division. The Public Affairs Intranet has since become the purview of the IT division. The Call Center has since become the purview of the Operations Division. And, the Mobile App Development has since become the purview of the Finance Division.

<u>Public Affairs Intranet</u> - When first proposed, the Public Affairs intranet was intended to facilitate enhanced communications capabilities throughout the agency, providing for a critical channel of communication between employees. The Public Affairs team had engaged in planning efforts through 2020, administering a survey of IndyGo employees on communication preferences, to help shape the deployment of the intranet. At full build out, the intranet would have hosted a homepage with timely and important messaging, provide other means to facilitate communication, and host division/department/project- specific pages to facilitate agency collaboration.

Version 1.0 of this plan included a budget of \$75,000 in 2020 to implement this initiative. In 2020, this project was wrapped into, and advanced by, a larger information technology project: Disaster Recovery. By doing so, IndyGo was able to address several pressing needs, such as timely communications with staff during emergency response times.

<u>Call Center</u> - In 2019, IndyGo brought its call center in-house to better coordinate messaging and communication, realize operational efficiencies, and provide for greater oversight of customer service relationships. Bringing the call center back within the organization required the build-out of the infrastructure necessary to handle call volumes, route and resolve customer comments, and service customer accounts. This project included a Customer Relationship Manager software deployment, call center technical hardware (e.g., computers, monitors, headphones, etc.), furniture, and other items. IndyGo had programmed \$170,000 for this effort. This project was completed in 2020. Total capital expenditures for this project was zero. The \$150,479 spent to complete this project — hardware and software purchases — were paid for out of IndyGo's 2020 operating budget.

Mobile App Development (see also Mobility Concierge Program on previous pages) - Enhancing riders' experience by providing convenient and timely information is viewed as critical in attracting and retaining transit riders. Trip planning, real time arrival, and trip payments are currently held in separate mobile applications (a legacy of different providers providing the back-office infrastructure for each of these services). This project sought to consolidate trip planning, service alert communication, managing of fare media, and real time arrival into a single, IndyGo-branded mobile application. The mobile app, which was intended to serve as a one-stop, singular source of information for all IndyGo users, was put on hold in 2019 to allow IndyGo staff to focus these types of efforts on the successful rollout of the new MyKey fare collection system.

This project was reimagined as part of an FTA Accelerating Innovative Mobility (AIM) grant application to create a "mobility concierge program".

SAFETY & SECURITY

Safety and security measures are incorporated within projects listed throughout this capital plan; each activity adheres to and advances IndyGo's safety and security policies. In planning, designing, and constructing any capital project, IndyGo staff and consultants work with IndyGo's Safety, Security, and Training departments to ensure activities conform to IndyGo's safety and security protocols.

To that end, most safety and security capital expenditures within this plan are embedded within the various other projects and project budgets outlined throughout this document, as are training expenses. In addition to project-specific measures, IndyGo will also need to secure additional safety, security, and training equipment.

Main Facility CCTV

IndyGo maintains closed-circuit television (CCTV) capabilities to ensure the safety of its employees and visitors and security of its facilities. As with any tech-based infrastructure, these systems need to be replaced from time to time as the systems meet the end of their useful life and/or technology or safety and security procedures evolve beyond the ability of the existing system. Most of the cameras on the outside of IndyGo's main facility located at 1501 W Washington Street no longer function as they should because of weathered lens covers and defective internal heaters. For these reasons, among others, IndyGo understands it must continue to invest in safety and security equipment, including the main facility CCTV system. IndyGo had anticipated spending a total of \$795,000 grants and local revenue dollars. Originally scheduled to be completed in 2019, this project continued into 2020. This project is complete.

Vehicle CCTV

IndyGo maintains closed-circuit television capabilities on its fixed route buses and will include these components on future buses as well. These systems include cameras, DVRs, wireless download capabilities, GPS kits, wireless radios, cables, mounting equipment, a server, and needed software. Specific equipment and apparatuses may vary based upon the needs of IndyGo and the evolution of technology between today and when the equipment is replaced. As of this update, IndyGo has programmed a total of \$3.275 million over three years (\$2,121,000 in 2021, \$993,000 in 2022, and \$161,000 in 2023) with annual investments needed thereafter. This project will be sourced from grants and future local revenue. As of this update, a total of \$1,540,442 has been spent on this project. This project is anticipated to end in 2022. The remaining project budget is \$1.26 million. IndyGo still anticipates that this project will be sourced from grants (approximately \$167,000 in remaining security set-aside 5307 funds in 2022) and future local revenue.

Training Simulators

Research suggests the use of a bus training simulator, in conjunction with both classroom and on-the-road training, improves transit driver safety. Simulators continue to build upon basic driving skills while helping to develop effective forward planning and good judgement under pressure. Studies from different Bus Operator Training Simulators have shown that accidents could be lowered by 35 to 60 percent. Some have also been shown to be able to improve on fuel economy and the overall efficiency of transit operations. Simulators can also allow operators to practice driving in different types of weather, traffic and emergency situations without putting the operator or equipment in harm's way. They can be used to recreate accidents that have happened and let the operator see what could have been done differently, enabling this training to occur with no risk to company property, workers, or the community.

IndyGo had budgeted a total of \$350,000 from local revenue, in 2020, to purchase one simulator. However, part of the 2020 purchase of the former Celadon Trucking Company to create IndyGo's new East Campus included the purchase of 4 (semi-truck) driving simulators. After some investigation, it was determined that these simulators could be converted to the TransitSim 7 Series Bus Driving Simulation Package for less than the cost of the purchase of one new simulator. Total cost for this project was \$240,000 (\$48,000 local and \$192,000 in federal grant dollars).

On-Board Data Recorder & Collision Avoidance System

Through outreach with other transit agencies and industry events, IndyGo has recently become aware of a video-safety program that provides the agency with real-time operator analytics, focused on capturing and reducing risky driving behavior. The system can track, and record, data related to driving behavior to facilitate incident review, coaching, and future training. Through this application, the system can assist in reducing collisions, improve safety performance, help Identify hazards, and reduce claims against the agency.

The system records data related to hard braking, speeding, distracted driving, and other risky behaviors. Further, the system tracks the frequency of incidents attributable to specific drivers, specific routes, specific intersections, and many other categories, which should help the agency identify and respond to recurring situations. The system is compatible with most bus camera streams and may integrate with many different platforms for information sharing. This system will advance agency goals and objectives related to FTA requirements for safety management system reporting and performance tracking. To advance this project, IndyGo programmed \$213,000 in 2020 from IndyGo local revenue. This project remains on hold.

Table 30. Safety & Security Funding Sources and Uses (total project costs)

	Main Facility CCTV	Training Simulators	Security Doors	On-Board Recorders	Vehicle CCTV ⁸	Total
5307 Security Set Asides					\$167,380	\$167,380
IN95X046-11.42.09					\$600,649	600,649
IN-2019-001-11.32.07	\$135,902				\$118,373	\$254,275
IN-2017-018-11.32.07	\$51,984				\$17,943	\$\$69,927
IN-2016-024-11.32.07	\$125,191					\$125,191
IN90X683-11.42.09)	\$39,864					\$39,864
IN-2021-023 11.44.20		240,000				240,000
Grant Subtotal	\$352,942	\$240,000-	\$0	\$-	\$904,345	\$1,497,286
Cash	\$124,286	\$60,000	\$400,000	\$213,000	\$1,055,655	\$1,852,941
Total	\$477,228	\$350,000	\$400,000	\$213,000	\$1,960,000	\$3,350,227

⁸ As of this update, it is anticipated that IndyGo will need to spend a total of \$3.275 million for the Vehicle CCTV project. These expenditures will likely be spread out over three years, beginning in 2021. See also Vehicle CCTV on previous pages.

5-YR CAPITAL PLAN BUDGET SUMMARY

The following table is the 5-yr Capital Plan Budget Summary for 2022 through 2026 adopted by the Indianapolis Public Transportation Corporation Board of Directors in August 2021.

Table 31. 2022 – 2026 5-Yr Capital Plan Budget Summary

Bill Street Vocway Connesion Project (Construction)			2022	2028	2024	2025	2025	5 V CIR T
Boths Street Two way Conversion Project (Construction)	Project	JT.	2022	2023	2024	2025		
Pate Intel Intel							• •	
Methods Meth	30th Street Two-way Conversion Project (Construction)		0	2,150,000	0		0	2,150,000
Purple Life Bill Month M	■ Blue Line BRT		5,746,450	5,707,800	86,850,000	86,850,000	38,961,000	224,115,250
Red II in Signal Author (County Line)	■ Michigan Street Two-way Conversion Project (Construction)		0	4,350,000	0	0	0	4,350,000
Red Iris Sgrall Modifications - APB and RRY	₹ Purple Line BRT		57,900,000	57,900,000	10,037,865	0	0	125,837,865
Sub Hulk Sub Primary Sub	Red Line Phase II & III (to County Line)		0	0	1,750,000	1,750,000	2,200,000	5,700,000
Sur last Print Index pass Charannes (Construction)	■ Red Line Signal Modifications - APB and BRT		345,000	0	0	0	0	345,000
Part Street Under pass Clavarance (Design and NIPA)	≝ Rub Rails		580,000	0	0	0	0	580,000
Scott Markinon Park and Riske 330,000 1,850,000 0 0 0 2,200,000 Super Stops 2.0 Alabams, Ft Wayne and Vermont Stations, 2 carci. 2,886,000 0 0 0 0 0 7,000 Francis Stop Americans. 2,886,000 0 0 0 0 2,286,000 Francis Stop Americans. 2,800,000 900,000	* Rural Street Underpass Clearance (Construction)		0	1,710,000	4,900,000	0	0	6,610,000
Super Stops 1.0 Debawars Frort R 2 way convension of FL Wigner (Debaware to Alibama) 0.00 0 <th< td=""><td>■ Rural Street Underpass Clearance (Design and NEPA) ———————————————————————————————————</td><td></td><td>710,000</td><td></td><td>0</td><td></td><td>0</td><td>710,000</td></th<>	■ Rural Street Underpass Clearance (Design and NEPA) ———————————————————————————————————		710,000		0		0	710,000
Super Stops 2.0 Alabama, Ft Wayne and Vermont Stations, 2 each.	* South Madison Park and Ride		350,000	1,850,000				2,200,000
El Transit Signal Priority (Installation) 1,450,000 0 0 0 0 1,450,000 Facilities 1500 in Esterior Door Replacement (formerly Security Uggrades / Enhanced Security) 23,185 0 0 0 0 23,535,750 1501 in Esterior Door Replacement (formerly Security Uggrades / Enhanced Security) 73,185 0 0 0 0 23,535,750 1501 in Esterior Door Replacement (formerly Security Uggrades / Enhanced Security) 73,185 0 0 0 0 27,72,727 1501 in Esterior Door Replacement (formerly Security Uggrades / Enhanced Security) 400,000 0 0 0 0 0 27,72,727 1501 in Esterior Door Replacement (formerly Security Uggrades / Enhanced Security Ugg	■ Super Stops 1.0 Delaware Street & 2-way conversion of Ft Wayne (Delaware to Alabama)		70,000	0	0	0	0	70,000
Internation Stop Amenities: Shelters, Signs, Benchea & Construction 990,000 900,000 900,000 900,000 4,500,000 In Salities 22,343,255 758,000 365,000 22,500 0 23,559,750 I SD1 - Esterior Door Replacement (formerly Security Uggrades / Enhanced Security) 93,185 0 0 0 0 2,721,270 0 0 0 0 2,721,270 0 0 0 0 0,727,270 0<	■ Super Stops 2.0 Alabama, Ft Wayne and Vermont Stations, 2 each. ■ Super Stops 2.0 Alabama, Ft Wayne and Vermont Stations, 2 each.		2,886,000	0	0	0	0	2,886,000
	₹ Transit Signal Priority (Installation)		1,450,000	0	0	0	0	1,450,000
1501 - Exterior Door Replacement (formerly Security Uggrades / Enhanced Security) 3,31,55 0 0 0 9,31,155 1501 - Garage Conversion, ACt DIX: 2,721,270 0 0 0 0 2,721,270 1501 - Scourity Door Uggrades 400,000 0 65,000 0 0 0 600,000 CIC - Level Boarding and In ground Charging 570,000 0 0 0 0 0 0 0 0 0 0 0 550,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 125,000 0 0 0 0 10 125,200 0 0 0 0 101,250 0 0 0 0 101,250 0 0 0 0 101,250 0 0 0 0 101,250 0 0 0 0 101,250 0 0 0 101,250 0 0 <td>■ Transit Stop Amenities: Shelters, Signs, Benches & Construction ■ Transit Stop Amenities: Shelters, Signs, Benches & Construction</td> <td></td> <td>900,000</td> <td>900,000</td> <td>900,000</td> <td>900,000</td> <td>900,000</td> <td>4,500,000</td>	■ Transit Stop Amenities: Shelters, Signs, Benches & Construction ■ Transit Stop Amenities: Shelters, Signs, Benches & Construction		900,000	900,000	900,000	900,000	900,000	4,500,000
1501 - Garage Conversion, AC to DC 2,771,270 0 0 0 0 2,721,270 1501 - Security Door Upgrades 400,000 0 0 0 0 0 0 0 0 0 0 0 0 0 55,000 0 0 0 55,000 0 0 0 0 55,000 0 0 0 55,000 0 0 0 0 55,000 0 0 0 0 570,000 0 0 0 0 0 0 0 125,000 0 0 0 0 0 0 125,000 0	= Facilities		22,834,250	738,000	365,000	22,500	0	23,959,750
1501 Security Door Upgrades	■ 1501 - Exterior Door Replacement (formerly Security Upgrades / Enhanced Security)		93,185	0	0	0	0	93,185
cNC Mill 0 0.5,000 0 0.5,000 0 0.5,000 © CC - Level Boarding and Inground Charging 570,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 152,000 0 0 0 0 152,000 0 0 0 0 152,000 0 0 0 0 125,000 0 0 0 125,000 0 0 0 0 140,000 0	* 1501 - Garage Conversion, AC to DC		2,721,270	0	0	0	0	2,721,270
CCC - Level Boarding and In-ground Charging 570,000 0 0 570,000 CCC - Lounge / Office Renovations 125,000 0 0 0 0 0 125,000 Este Campus - Facifities 17,520,040 0 0 0 0 125,200,040 Ested Management System Upgrade 401,755 0 0 0 0 400,000 Golf Carls Replacement 300,000 300,000 300,000 0 0 0 22,500 Maintenance Heavy Equipment Replacement 300,000 300,000 0 0 0 0 900,000 Medal Break 0 1,000 0 <t< td=""><td>₹ 1501 - Security Door Upgrades</td><td></td><td>400,000</td><td>0</td><td>0</td><td>0</td><td>0</td><td>400,000</td></t<>	₹ 1501 - Security Door Upgrades		400,000	0	0	0	0	400,000
CTC - Lounge / Office Renovations 125,000 0 0 0 0 125,000	* CNC Mill		0	0	65,000	0	0	65,000
Est Campus - Facilities 17,520,040 0 0 1,7520,040 * Luel Management System Ulgrade 401,755 0 0 0 400,000 * Golf Cart's Replacement 0 400,000 0 0 22,500 0 22,500 * Maintenance Heavy Equipment Replacement 300,000 300,000 300,000 22,500 0 900,000 * Metal Break 0 10,000 0 0 0 0 900,000 * Metal Break 0 10,000 0 <td>■ CTC - Level Boarding and In-ground Charging</td> <td></td> <td>570,000</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>570,000</td>	■ CTC - Level Boarding and In-ground Charging		570,000	0	0	0	0	570,000
Fuel Management System Upgrade 401,755 0 0 0 400,755 Fuel Piping 0 400,000 0 0 0 400,000 Golf Carts Replacement 0 400,000 300,000 300,000 300,000 0 22,500 900,000 Mictal Breaks 0 10,000 0 0 0 900,000 Steam Ceaner (Hotsey) 25,000 0 0 0 0 25,000 Elice Bay Demolition 250,000 0 0 0 0 250,000 Elice Roct 28,000 0 0 0 0 0 250,000 Wall Repair 350,000 0 0 0 0 0 250,000 France 382,500 30,000 0 0 0 0 350,000 France 382,500 390,150 397,953 0 0 1,170,603 France 15,970,000 390,150 397,953 0 0	▼ CTC - Lounge / Office Renovations		125,000	0	0	0	0	125,000
Final Piping	East Campus - Facilities		17,520,040	0	0	0	0	17,520,040
Golf Carts Replacement 0 0 22,500 0 22,500 Maintenance Heavy Equipment Replacement 300,000 300,000 300,000 0 0 900,000 Steam Cleaner (Hotsey) 25,000 0 0 0 0 25,000 Steam Cleaner (Hotsey) 25,000 0 0 0 0 0 25,000 Steam Cleaner (Hotsey) 25,000 0 0 0 0 0 0 25,000 Utility Vehicles (AIV 28,000 0 0 0 0 0 0 0 250,000 Weder Root 50,000 0 0 0 0 0 0 0 0 0 0 350,000 Wall Repair 380,000 0 0 0 0 0 0 28,000 * Zero turn Mower 0 28,000 390,150 390,150 397,953 0 0 1,170,603 * Finance 182,000 390,150	Fuel Management System Upgrade		401,755	0	0	0	0	401,755
* Maintenance Heavy Equipment Replacement 300,000 300,000 300,000 0 0 900,000 * Metal Breaks 0 10,000 0 0 0 0 0 10,000 * Steam Clears (Hotsey) 25,000 0 0 0 0 25,000 ** Uffity Vehicle/AIV 28,000 0 0 0 0 0 250,000 ** Weeder Root 50,000 0 0 0 0 0 300,000 ** Weeder Root 50,000 0 0 0 0 0 0 300,000 *** Finance 382,500 300,150 397,953 0 0 1,170,603 ** Finance 382,500 390,150 397,953 0 0 1,170,603 ** Finance 15,997,000 31,906,991 17,649,091 18,148,814 19,706,963 13,705,903 1,170,603 13,705,903 1,170,603 13,705,903 1,170,603 13,705,903 1,170,603 13,705,903 1,170,60	Fuel Piping		0	400,000	0	0	0	400,000
** Metal Breaks 0 10,000 0 0 0 10,000 \$ Steam Cleaner (Hotsey) 25,000 0 0 0 0 0 25,000 \$ Tire Bay Demolition 250,000 0 0 0 0 0 250,000 \$ Utility Vehicle/AIV 28,000 0 0 0 0 0 250,000 \$ Veeder Root 50,000 0 0 0 0 0 0 0 350,000 \$ Wall Repair 0 0 0 0 0 0 0 0 0 0 28,000 \$ Wall Repair 0 0 8,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1,000 1,170,603 1,170,603 1,170,603 1,170,603 1,170,603 1,170,603 1,170,603 1,170,603 1,170,603 1,170,603 1,170,603 1,170,603 <td< td=""><td>■ Golf Carts Replacement ■ Golf Carts Replacement</td><td></td><td>0</td><td>0</td><td>0</td><td>22,500</td><td>0</td><td>22,500</td></td<>	■ Golf Carts Replacement ■ Golf Carts Replacement		0	0	0	22,500	0	22,500
** Steam Cleaner (Hotsey) 25,000 0 0 0 25,000 ® Tire Bay Demolition 250,000 0 0 0 0 250,000 ® Utility Vehicle/AIV 28,000 0 0 0 0 0 0 28,000 * Veeder Root 50,000 0 0 0 0 0 350,000 * Wall Repair 350,000 0 0 0 0 0 350,000 * Zero Turn Mower 382,500 390,150 397,953 0 0 1,170,603 * Finance 382,500 390,150 3397,953 0 0 1,170,603 * Fleat 15,997,000 31,906,001 1,649,001 18,148,814 19,706,963 1,817,0603 * Fleet 15,997,000 14,267,000 1,580,000 1,580,000 1,580,000 1,580,000 1,580,000 1,590,000 1,580,000 1,590,000 1,590,000 1,690,000 1,690,000 1,580,000 1,590,000 1,590,000 1,590,000 <td>* Maintenance Heavy Equipment Replacement</td> <td></td> <td>300,000</td> <td>300,000</td> <td>300,000</td> <td>0</td> <td>0</td> <td>900,000</td>	* Maintenance Heavy Equipment Replacement		300,000	300,000	300,000	0	0	900,000
I Tire Bay Demolition 250,000 0 0 0 250,000 I Ulifly Vehicle/ATV 28,000 0 0 0 28,000 I Veeder Root 28,000 0 0 0 0 28,000 I Wall Repair 350,000 0 0 0 0 0 250,000 Wall Repair 350,000 0 0 0 0 0 28,000 Finance 382,500 390,150 397,953 0 0 1,170,603 Finace 382,500 390,150 397,953 0 0 1,170,603 Fined-Route Bus Replacement 15,997,000 31,906,991 17,649,991 18,148,814 19,706,963 10,470,903 Fixed-Route Bus Replacement, BYD Electric Buses for Purple Line 2022 14,267,000 14,267,000 15,824,991 16,298,814 19,706,963 65,833,999 Fixed-Route Bus Replacement 17,500,000 15,500,000 1,550,000 1,550,000 1,550,000 1,550,000 25,000 25,000 25,000	Metal Breaks		0	10,000	0	0	0	10,000
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E Veeder Root 50,000 0 0 0 0 50,000 Wall Repair 350,000 0 0 0 0 350,000 E Zer D Turn Mower 0 28,000 0 0 0 0 28,000 F Finance 382,500 390,150 397,953 0 0 1,70,603 F Firechox Maintenance / Replacement 382,500 390,150 397,953 0 0 1,70,603 F Firech X Maintenance / Replacement 382,500 390,150 397,953 0 0 1,70,603 F Firech X Maintenance / Replacement 382,500 390,150 397,953 0 0 1,70,603 F Firech X Maintenance / Replacement 382,500 390,150 397,953 0 0 0 1,70,603 F Fixed-Route Bus Replacement, BYD Electric Buses for Purple Line 2022 14,267,000 14,267,000 0 0 0 0 0 28,534,000 F Paratransit Bus Replacement / Expansion, 40' Buses 1,250,000 1,500,000 1,550,000	■ Tire Bay Demolition		250,000	0	0	0	0	250,000
Wall Repair 350,000 0 0 0 0 350,000 Zero Turn Mower 30 28,000 0 0 0 28,000 Finance 382,500 390,150 397,953 0 0 1,170,603 Finance 382,500 390,150 397,953 0 0 1,170,603 Finance 15,997,000 31,906,091 176,409,91 18,148,814 19,706,93 13,407,903 Fixed-Route Bus Replacement, BYD Electric Buses for Purple Line 2022 14,267,000 14,267,000 0 0 0 28,534,000 Fixed-Route Bus Replacement, BYD Electric Buses for Purple Line 2022 14,267,000 14,267,000 0 0 0 28,534,000 Fixed-Route Bus Replacement, BYD Electric Buses for Purple Line 2022 14,267,000 14,267,000 0 0 0 28,534,000 Fixed-Route Bus Replacement, BYD Electric Buses for Purple Line 2022 14,267,000 15,824,091 15,824,091 16,298,814 17,906,963 65,853,959 Paratra rist Bus Replacement, Explacement Bus Replacement 28,000<	Utility Vehicle/ATV ■		28,000	0	0	0	0	28,000
E Zero Turn Mower 0 28,000 0 0 28,000 F Finance 382,500 390,150 397,953 0 0 1,170,603 F Farebox Maintenance / Replacement 382,500 390,150 397,953 0 0 1,170,603 F Farebox Maintenance / Replacement 15,997,000 31,906,091 17,649,091 18,148,814 19,706,963 103,407,959 E Fixed-Route Bus Replacement, BYD Electric Buses for Purple Line 2022 14,267,000 14,267,000 0 0 0 28,534,000 E Fixed-Route Bus Replacement, BYD Electric Buses for Purple Line 2022 14,267,000 15,824,091 15,824,091 16,298,814 17,906,963 628,533,000 E Paratransit Bus Replacement, BYD Electric Buses for Purple Line 2022 14,267,000 15,824,091 15,824,091 16,298,814 17,906,963 628,533,000 E Paratransit Bus Replacement, BYD Electric Buses for Purple Line 2022 14,267,000 15,824,091 15,824,091 15,824,091 16,298,814 17,906,963 628,533,000 1,250,000 1,250,000 1,250,000 1,250,000 27,000 1,250,00	Veeder Root		50,000	0	0	0	0	50,000
Finance 382,500 390,150 397,953 0 0 1,170,603 Farebox Maintenance / Replacement 382,500 390,150 397,953 0 0 1,170,603 Fleet 15,997,000 31,906,091 17,649,091 18,148,814 19,706,963 103,407,959 £ Fixed-Route Bus Replacement, BYD Electric Buses for Purple Line 2022 14,267,000 14,267,000 0 0 0 28,534,000 £ Fixed-Route Bus Replacement, BYD Electric Buses for Purple Line 2022 14,267,000 15,824,091 15,824,091 16,298,814 17,906,963 65,834,900 £ Fixed-Route Bus Replacement, BYD Electric Buses for Purple Line 2022 14,267,000 15,824,091 16,298,814 17,906,963 65,834,900 £ Paratransit Bus Replacement, BYD Electric Buses for Purple Line 2022 14,267,000 15,824,091 16,298,814 17,906,963 65,834,900 £ Paratransit Bus Replacement 1,450,000 1,500,000 1,550,000 1,550,000 1,550,000 1,420,000 £ Route Line Buse Replacement 240,000 25,000 25,000 20,000 20,000 20,00	■ Wall Repair		350,000	0	0	0	0	350,000
** Farebox Maintenance / Replacement 382,500 390,150 397,953 0 0 1,170,603 ** Fleet 15,997,000 31,906,091 17,649,091 18,148,814 19,706,693 103,407,959 ** Fleet 15,997,000 14,267,000 17,649,091 18,148,814 19,706,693 103,407,959 ** Fleet Route Bus Replacement, BYD Electric Buses for Purple Line 2022 14,267,000 14,267,000 0 0 0 28,534,000 ** Fixed-Route Bus Replacement/Expansion, 40' Buses 1,450,000 1,502,000 15,524,091 16,298,814 17,906,963 65,834,900 ** Paratransit Bus Replacement 1,450,000 1,500,000 1,550,000 1,550,000 1,550,000 1,550,000 1,550,000 1,550,000 27,600,000 1,600,000	■ Zero Turn Mower		0	28,000	0	0	0	28,000
# Fleet 15,997,000 31,996,091 17,649,091 18,148,814 19,706,963 103,407,959 # Fixed-Route Bus Replacement, BYD Electric Buses for Purple Line 2022 14,267,000 14,267,000 0 0 0 0 28,534,000 # Fixed-Route Bus Replacement/Expansion, 40' Buses 0 15,824,091 15,824,091 16,298,814 17,906,963 65,853,959 # Paratransit Bus Replacement	■ Finance		382,500	390,150	397,953			1,170,603
2 Fixed-Route Bus Replacement, BYD Electric Buses for Purple Line 2022 14,267,000 14,267,000 0 0 0 28,534,000 2 Fixed-Route Bus Replacement/Expansion, 40' Buses 0 15,824,091 15,824,091 16,298,814 17,906,963 65,853,959 2 Paratransit Bus Replacement 1,450,000 1,500,000 1,550,000 1,550,000 1,550,000 1,550,000 25,000 20,000 1,600,000 2 Support Vehicle Replacement 280,000 315,000 25,000 300,000 250,000 1,600,000 2 Information Technology 1,527,000 8,895,000 25,000 20,000 20,000 10,487,000 3 Radio Equipment & Accessories 32,000 25,000 25,000 20,000 20,000 122,000 3 Vehicle CCTV Replacement 1,255,000 0 0 0 0 0 0 1,255,000 2 Vehicle ITS Replacement 0 420,000 0 0 0 0 0 8,450,000 3 Safety and Security 27,650 0 0 0 0<	* Farebox Maintenance / Replacement		382,500	390,150	397,953	0	0	1,170,603
E Fixed-Route Bus Replacement/Expansion, 40' Buses 0 15,824,091 16,298,814 17,906,963 65,853,959 P Paratransit Bus Replacement 1,450,000 1,550,000 1,550,000 1,550,000 1,550,000 7,600,000 Support Vehicle Replacement 280,000 315,000 275,000 300,000 250,000 1,420,000 Information Technology 1,527,000 8,895,000 25,000 20,000 20,000 240,000 B Molify Concierge 240,000 0 0 0 0 0 240,000 R Radio Equipment & Accessories 32,000 25,000 25,000 20,000 20,000 220,000 220,000 Vehicle CCTV Replacement 1,255,000 0 0 0 0 0 1,255,000 Vehicle Communication Replacement 0 420,000 0 0 0 0 0 420,000 Safety and Security 27,650 0 0 0 0 0 8,450,000 East Campus - Security, Visitor Management 27,650<	5 Fleet		15,997,000	31,906,091	17,649,091	18,148,814	19,706,963	103,407,959
# Paratransit Bus Replacement 1,450,000 1,550,000 1,550,000 1,550,000 7,600,000 * Support Vehicle Replacement 280,000 315,000 275,000 300,000 250,000 1,420,000 * Information Technology 1,527,000 8,895,000 25,000 20,000 20,000 240,000 * Mobility Concierge 240,000 0 0 0 0 240,000 * Radio Equipment & Accessories 32,000 25,000 25,000 20,000 20,000 122,000 * Vehicle CCTV Replacement 1,255,000 0 0 0 0 0 1,255,000 * Vehicle Communication Replacement 0 420,000 0 0 0 0 420,000 * Vehicle ITS Replacement 0 8,450,000 0 0 0 8,450,000 * Safety and Security 27,650 0 0 0 0 27,650 * East Campus - Security, Visitor Management 27,650 0 0 0 0 27,650	≛ Fixed-Route Bus Replacement, BYD Electric Buses for Purple Line 2022		14,267,000	14,267,000	0	0	0	28,534,000
Support Vehicle Replacement 280,000 315,000 275,000 300,000 250,000 1,420,000 Information Technology 1,527,000 8,895,000 25,000 20,000 20,000 10,487,000 Mobility Concierge 240,000 0 0 0 0 240,000 Redio Equipment & Accessories 32,000 25,000 25,000 20,000 20,000 122,000 Vehicle COTTV Replacement 1,255,000 0 0 0 0 1,255,000 Evehicle TIS Replacement 0 420,000 0 0 0 0 420,000 Safety and Security 27,650 0 0 0 8,450,000 0 0 8,450,000 East Campus - Security, Visitor Management 27,650 0 0 0 0 27,650	■ Fixed-Route Bus Replacement/Expansion, 40' Buses		0	15,824,091	15,824,091	16,298,814	17,906,963	65,853,959
Information Technology	■ Paratransit Bus Replacement		1,450,000	1,500,000	1,550,000	1,550,000	1,550,000	7,600,000
** Mobility Concierge 240,000 0 0 0 240,000 Radio Equipment & Accessories 32,000 25,000 25,000 20,000 20,000 122,000 ** Vehicle CCTV Replacement 1,255,000 0 0 0 0 1,255,000 ** Vehicle Gommunication Replacement 0 420,000 0 0 0 420,000 ** Vehicle ITS Replacement 0 8,450,000 0 0 0 8,450,000 **Safety and Security 27,650 0 0 0 0 27,650 **East Campus - Security, Visitor Management 27,650 0 0 0 0 27,650	Support Vehicle Replacement Support Vehicle Replacement		280,000	315,000	275,000	300,000	250,000	1,420,000
2 Radio Equipment & Accessories 32,000 25,000 20,000 20,000 122,000 2 Vehicle CCTV Replacement 1,255,000 0 0 0 0 1,255,000 2 Vehicle Communication Replacement 0 420,000 0 0 0 420,000 2 Vehicle ITS Replacement 0 8,450,000 0 0 0 8,450,000 2 Safety and Security 27,650 0 0 0 0 27,650 2 East Campus - Security, Visitor Management 27,650 0 0 0 0 27,650	□ Information Technology		1,527,000	8,895,000		20,000	20,000	10,487,000
*Vehicle CCTV Replacement 1,255,000 0 0 0 1,255,000 *Vehicle Communication Replacement 0 420,000 0 0 0 420,000 *Vehicle ITS Replacement 0 8,450,000 0 0 0 0 8,450,000 *Safety and Security 27,650 0 0 0 0 27,650 *East Campus - Security, Visitor Management 27,650 0 0 0 0 27,650	3 Mobility Concierge		240,000	0	0	0	0	240,000
E Vehicle Communication Replacement 0 420,000 0 0 420,000 E Vehicle ITS Replacement 0 8,450,000 0 0 0 8,450,000 Safety and Security 27,650 0 0 0 0 27,650 East Campus - Security, Visitor Management 27,650 0 0 0 0 27,650	■ Radio Equipment & Accessories ■ Radio Equipment & Accessories		32,000	25,000	25,000	20,000	20,000	122,000
E Vehicle Communication Replacement 0 420,000 0 0 420,000 E Vehicle ITS Replacement 0 8,450,000 0 0 0 8,450,000 Safety and Security 27,650 0 0 0 0 27,650 East Campus - Security, Visitor Management 27,650 0 0 0 0 27,650	* Vehicle CCTV Replacement		1,255,000	0	0	0	0	1,255,000
E-Vehicle ITS Replacement 0 8,450,000 0 0 0 8,450,000 Safety and Security 27,650 0 0 0 0 27,650 East Campus - Security, Visitor Management 27,650 0 0 0 0 27,650				420,000	0		0	
Safety and Security 27,650 0 0 0 0 27,650 East Campus - Security, Visitor Management 27,650 0 0 0 0 27,650			0	8,450,000	0	0	0	
East Campus - Security, Visitor Management 27,650 0 0 0 0 27,650	·		27,6 <u>50</u>				0	
				0	0	0	0	
Grand Total 111,705,850 116,497,041 122,874,909 107,691,314 61,787,963 520,557,077	Grand Total		111,705,850	116,497,041	122,874,909	107,691,314	61,787,963	520,557,077