



# NTTA SYSTEM

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FY2021 - FY2025  
Five-Year Capital Plan

5900 Plano Parkway, Plano, Texas 75093  
NTTA.org





# DALLAS NORTH TOLLWAY

EXTENSION OVER US 380

Aerial view of the project north of US 380



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# READERS' ROADMAP

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This Readers' Roadmap is a guide to help navigate through the North Texas Tollway Authority's FY2021 - FY2025 Five-Year Capital Plan. The roadmap is designed to give the NTTA Board of Directors, bondholders, elected officials, stakeholders, the public and staff a detailed look at expected capital spending. The FY2021 - FY2025 Five-Year Capital Plan is divided into five sections; footnotes and page references are used to direct the reader to other sections of the document for additional detail and explanation.

## CAPITAL PLAN OVERVIEW

This section contains a map of NTTA roadways, an introduction and background for the Capital Plan, documents that feature the types of projects and funding, a long-term financial plan with expected revenues and expenses and a schedule showing expected costs by project type. The section also contains a graphic representation of the flow of funds and other informational graphs.

## PROJECT SECTIONS

Projects are grouped into the categories below:

1. **Reserve Maintenance**
2. **Capital Improvement**

Each category section has the following documents:

1. **Project Description and Summary** – Major project description and summary include a map outlining the project area.
2. **Project Listing** – List of all projects showing the responsible department, project number and name, current year estimated costs and the budgeted amounts for the next five years.
3. **Project Detail Form** – The form shows the department that will manage the project, the project type, project partners, total project and prior years cost, a brief description and justification for the project, the budgeted amounts and operating budget impact. Projects that are budgeted on an annual basis are identified on the Total Project Cost area as Annual Budget.

## APPENDICES

The last section contains an index that references each project name and associated page number. Also included is the Capital Plan process and documents describing the Capital Plan calendar, the major revenue sources, outstanding debt service and estimated operating expenditures.



# CAPITAL PLAN OVERVIEW





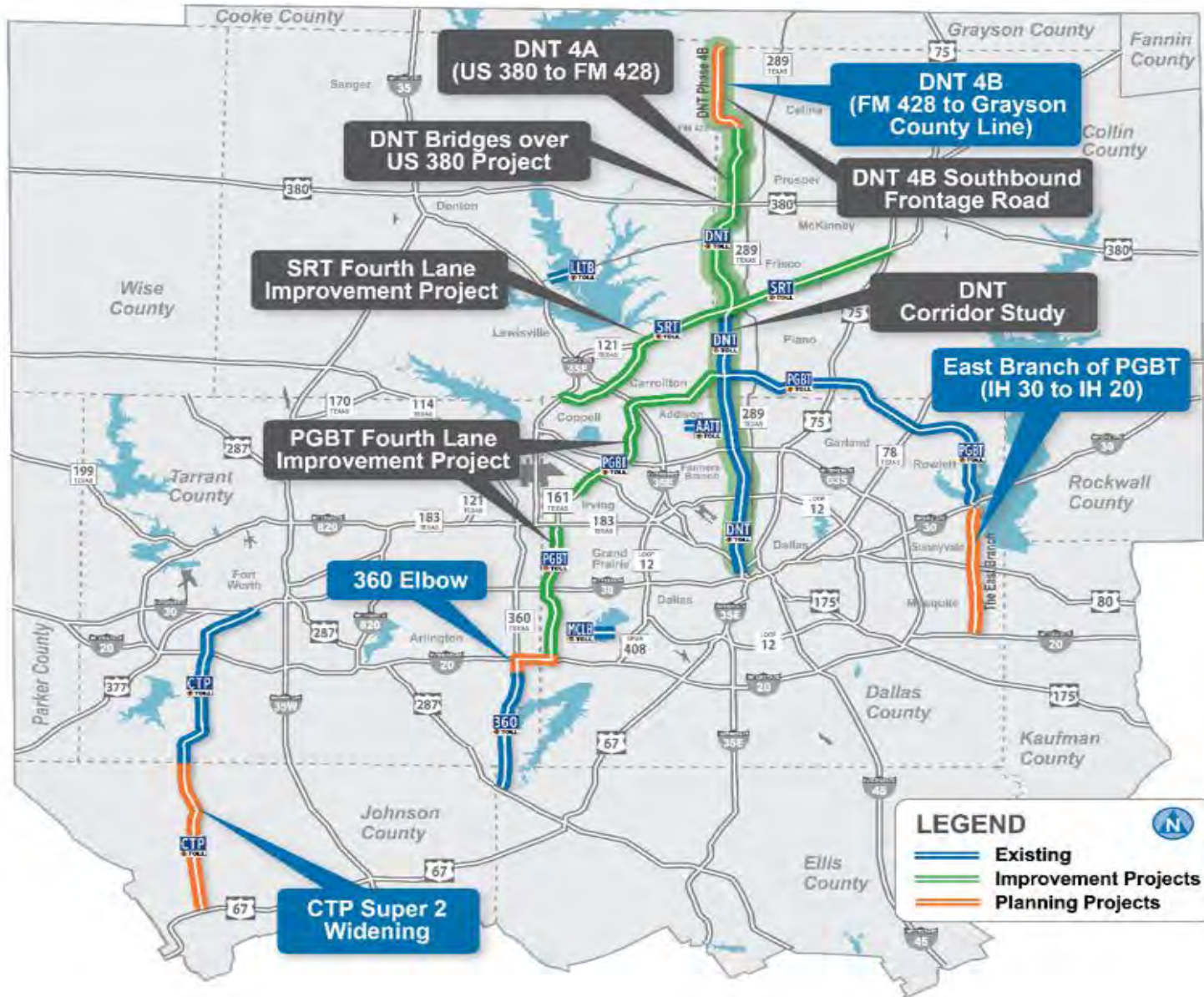
# DALLAS NORTH TOLLWAY

EXTENSION OVER US 380

Pouring concrete for columns at the south end of the project



# Facility Map of the North Texas Region





# Introduction and Overview

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## INTRODUCTION

The North Texas Tollway Authority's (NTTA or the Authority) Five-Year Capital Plan (NTTA Capital Plan) is developed to plan for the maintenance, renewal, improvement and/or replacement of capital assets. The NTTA System (System) facilities are the Dallas North Tollway (DNT), President George Bush Turnpike (PGBT), Sam Rayburn Tollway (SRT), Addison Airport Toll Tunnel (AATT), Lewisville Lake Toll Bridge (LLTB), Mountain Creek Lake Bridge (MCLB) and Chisholm Trail Parkway (CTP).

Early in FY2018, NTTA took ownership of State Highway 360, also referred to in this document as 360 Tollway (360T), per an agreement with the Texas Department of Transportation (TxDOT). It is a stand-alone project and not part of the System.

The NTTA Capital Plan includes current year estimated expenditures approved through the annual budget process and estimates for the five subsequent years to be used for planning purposes only. The subsequent years are re-evaluated, updated and/or extended as part of the annual budget process. As a multi-year planning tool, the NTTA Capital Plan is comprised of projects continued from previous years and projects being initiated within the next five years.

The NTTA Capital Plan is adopted annually by the NTTA Board of Directors. The projects listed in the NTTA Capital Plan and projected expenditures do not constitute a firm commitment by the Authority to fund the project.

## LONG-TERM FINANCIAL PLANS

Three major factors inform NTTA's long-term financial plans: traffic and revenue estimates provided by independent traffic and revenue engineers, estimated maintenance expenses provided by the independent general engineering consultant and system net debt service. Cost estimates are generated during the initial feasibility study phase and are updated as projects are developed.

The guiding principles used to update the NTTA Capital Plan are the Authority's goal to maintain a 1.50 times debt service coverage and the desire to pay for projects with available funds. Priority is given to projects associated with safety and revenue enhancement.

### A. Revenue Fund

Estimated total revenue over the next five years is \$5.1 billion. Approximately \$4.8 billion or 93.5% of total revenue is based on projections provided by the traffic and revenue engineers (see Major Revenue Source, pages 138-141). Approximately \$0.3 billion or 6.5% of total revenue is estimated by the Authority and includes ZipCash late fees and estimated interest earnings on projected cash balances. Total revenue growth is projected to average 10.5% per year from FY2021 through FY2025. All NTTA revenues on deposit in the Revenue Fund must be distributed to the other funds in accordance with the Amended and Restated Trust Agreement with Supplements (Trust Agreement). (See Revenue Distribution, pages 139-141).

## Introduction and Overview (continued)

	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	Five-Year Totals FY2021 - FY2025
<b>REVENUE FUND</b>							
<b>Estimated Beginning Available Cash Balance</b>	-	-	-	-	-	-	-
<b>INFLOWS</b>							
Estimated Toll Revenues	\$ 714,041,859	\$ 776,100,400	\$ 886,566,100	\$ 971,601,400	\$ 1,035,552,100	\$ 1,088,200,700	\$ 4,758,020,700
Estimated Other Revenues	34,159,047	42,300,000	66,932,133	70,721,681	74,091,837	75,833,283	329,878,934
<b>TOTAL INFLOWS</b>	<b>748,200,906</b>	<b>818,400,400</b>	<b>953,498,233</b>	<b>1,042,323,081</b>	<b>1,109,643,937</b>	<b>1,164,033,983</b>	<b>5,087,899,634</b>
<b>Estimated Ending Available Cash Balance</b>	-	-	-	-	-	-	-
<b>Total Revenues Available for Operations</b>	<b>\$ 748,200,906</b>	<b>\$ 818,400,400</b>	<b>\$ 953,498,233</b>	<b>\$ 1,042,323,081</b>	<b>\$ 1,109,643,937</b>	<b>\$ 1,164,033,983</b>	<b>\$ 5,087,899,634</b>

### B. Operation and Maintenance (O&M)

O&M expenses for the next five years are estimated at \$0.9 billion. These funds are required to run the day-to-day operations of the Authority.

According to the Trust Agreement, revenues must be transferred to the O&M Fund to cover expenses and maintain a reserve balance (see Revenue Distribution, page 139, and Cash Balances, page 134). A projected \$913.1 million for O&M expense and reserve will be transferred from the Revenue Fund to the O&M Fund.

The estimated operating expenses for FY2021 are prepared by the individual departments and compared to the general engineering consultant estimates. The operating expenses are expected to increase an average of 3.0% per year between FY2021 and FY2025. (See Appendix F page 143)



## Introduction and Overview (continued)

	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	Five-Year Totals FY2021 - FY2025
<b>Total Revenues Available for Operations</b>	\$ 748,200,906	\$ 818,400,400	\$ 953,498,233	\$ 1,042,323,081	\$ 1,109,643,937	\$ 1,164,033,983	\$ 5,087,899,634
<b>OPERATION AND MAINTENANCE FUND</b>							
<b>Estimated Beginning Available Cash Balance</b>	<b>41,695,464</b>	<b>41,695,464</b>	<b>28,951,867</b>	<b>29,820,423</b>	<b>30,715,035</b>	<b>31,636,486</b>	<b>41,695,464</b>
<b>INFLOWS</b>							
Transfer from Revenue Fund	169,893,345	160,967,603	179,791,092	185,184,825	190,740,370	196,462,581	913,146,470
Inter-Fund Transfers		-	-	-	-	-	-
<b>TOTAL INFLOWS</b>	<b>169,893,345</b>	<b>160,967,603</b>	<b>179,791,092</b>	<b>185,184,825</b>	<b>190,740,370</b>	<b>196,462,581</b>	<b>913,146,470</b>
<b>OUTFLOWS</b>							
Estimated Operating Expenses	(169,893,345)	(173,711,200)	(178,922,536)	(184,290,212)	(189,818,919)	(195,513,486)	(922,256,353)
<b>TOTAL OUTFLOWS</b>	<b>(169,893,345)</b>	<b>(173,711,200)</b>	<b>(178,922,536)</b>	<b>(184,290,212)</b>	<b>(189,818,919)</b>	<b>(195,513,486)</b>	<b>(922,256,353)</b>
<b>Estimated Ending Available Cash Balance</b>	<b>41,695,464</b>	<b>28,951,867</b>	<b>29,820,423</b>	<b>30,715,035</b>	<b>31,636,486</b>	<b>32,585,581</b>	<b>32,585,581</b>
<b>Net Revenues Available for Debt Service</b>	<b>\$ 578,307,562</b>	<b>\$ 657,432,797</b>	<b>\$ 773,707,141</b>	<b>\$ 857,138,256</b>	<b>\$ 918,903,567</b>	<b>\$ 967,571,402</b>	<b>\$ 4,174,753,164</b>

### C. Debt Service Fund

In order to fund NTTA System expansions and capital improvements, NTTA has previously issued 1<sup>st</sup> and 2<sup>nd</sup> Tier debt. NTTA maintains Debt Service Funds to pay these debt obligations. Over the next five years, principal and interest requirements total \$3.2 billion. Payments for 1<sup>st</sup> and 2<sup>nd</sup> tier debt total \$3.0 billion which is funded from the Revenue Fund (see Revenue Distribution, page 139). Additionally, the System assisted with the financing of the construction of the CTP through subordinated debt and the construction of the PGBT through an ISTEAL loan. The subordinated debt payments total \$38.5 million and ISTEAL loan payments total \$76.6 million for the next five years. While the subordinated debt and ISTEAL loan represent a portion of the NTTA System's indebtedness, they are not funded from the Net Revenues Available for Debt Service Fund but instead from the Capital Improvement Fund.

The Trust Agreement requires a 1<sup>st</sup> tier debt service coverage (net revenues divided by net debt service) of 1.35 times. The Board of Directors adopted a more aggressive target of 1.50 times. The debt service coverage ranges from a low of 1.79 in FY2021 to a high of 2.05 in FY2024. (See page 11)

## Introduction and Overview (continued)

	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	Five-Year Totals FY2021 - FY2025
<b>Net Revenues Available for Debt Service</b>	<b>\$ 578,307,562</b>	<b>\$ 657,432,797</b>	<b>\$ 773,707,141</b>	<b>\$ 857,138,256</b>	<b>\$ 918,903,567</b>	<b>\$ 967,571,402</b>	<b>\$ 4,174,753,164</b>
<b>DEBT SERVICE FUNDS</b>							
<b>Estimated Beginning Available Cash Balance</b>	-	-	-	-	-	-	-
<b>INFLOWS</b>							
Transfer from Capital Improvement Fund	27,109,806.78	34,852,366	23,955,023	23,953,728	23,958,839	23,963,948	130,683,904
Transfer from Revenue Fund	430,192,461	497,058,340	600,081,291	642,167,140	652,051,308	652,050,723	3,043,408,802
<b>TOTAL INFLOWS</b>	<b>457,302,268</b>	<b>531,910,706</b>	<b>624,036,314</b>	<b>666,120,868</b>	<b>676,010,147</b>	<b>676,014,671</b>	<b>3,174,092,706</b>
<b>OUTFLOWS</b>							
1st Tier Debt Service	(321,392,719)	(362,360,177)	(415,216,828)	(447,362,327)	(447,664,246)	(478,465,661)	(2,151,069,239)
2nd Tier Debt Service	(108,799,742)	(134,698,163)	(184,864,463)	(194,804,813)	(204,387,062)	(173,585,062)	(892,339,563)
3rd Tier Debt Service	-	-	-	-	-	-	-
Total Debt Service	(430,192,461)	(497,058,340)	(600,081,291)	(642,167,140)	(652,051,308)	(652,050,723)	(3,043,408,802)
Capital Improvement Fund - Subordinate Debt	(9,830,000)	(3,962,140)	(8,632,627)	(8,631,332)	(8,636,443)	(8,641,552)	(38,504,094)
Capital Improvement Fund - Commercial Paper	(1,705,198)	(10,567,830)	-	-	-	-	(10,567,830)
Capital Improvement Fund - Revolving Note	(252,213)	(5,000,000)	-	-	-	-	(5,000,000)
Capital Improvement Fund - ISTEAL Loan	(15,322,396)	(15,322,396)	(15,322,396)	(15,322,396)	(15,322,396)	(15,322,396)	(76,611,980)
<b>TOTAL OUTFLOWS</b>	<b>(457,302,268)</b>	<b>(531,910,706)</b>	<b>(624,036,314)</b>	<b>(666,120,868)</b>	<b>(676,010,147)</b>	<b>(676,014,671)</b>	<b>(3,174,092,706)</b>
<b>Estimated Ending Available Cash Balance</b>	-	-	-	-	-	-	-
<b>Net Revenues Available for Major Maintenance Projects</b>	<b>\$ 148,115,101</b>	<b>\$ 160,374,457</b>	<b>\$ 173,625,850</b>	<b>\$ 214,971,116</b>	<b>\$ 266,852,259</b>	<b>\$ 315,520,679</b>	<b>\$ 1,131,344,362</b>
First Tier Debt Service Coverage	1.80	1.79	1.86	1.92	2.05	2.02	1.94
First & Second Tier Debt Service Coverage	1.34	1.28	1.29	1.33	1.41	1.48	1.37
All Debt Service Coverage	1.26	1.24	1.24	1.29	1.36	1.43	1.32
CIF Subordinated Debt Coverage	1.28	1.24	1.16	1.21	1.27	1.34	1.34

### D. Reserve Maintenance Fund

This is the Authority's long-term plan for the renewal and replacement of capital assets. The Authority elected to use the Governmental Accounting Standards Board (GASB) 34 Modified Approach to account for the maintenance of infrastructure assets. As required by the Trust Agreement, an annual inspection of the Authority's roadways is conducted by the general engineering consultant. This inspection provides an assessment of conditions of all Authority infrastructure assets (roadways, bridges and facilities). The assessment of conditions is made by visual and mechanical tests designed to reveal any condition that would reduce user benefits below the set minimum level of service. The Authority's goal is to maintain the infrastructure assets at a rating of eight or better (1 to 10 scale).



## Introduction and Overview (continued)

These condition levels were adopted by the Board of Directors Resolution No. 02-31 on June 19, 2002; and further clarified by Resolution No. 07-169 on December 19, 2007. The roads are maintained at the Authority's level in order to enhance the customers' driving experience.

The Reserve Maintenance Fund estimate for FY2021 through FY2025 is \$286.7 million, an average of \$57.3 million per year. This estimate is composed of \$267.6 million of project costs (see Reserve Maintenance Projects, pages 23-42) and \$19.1 million for professional fees and allocated overhead costs.

The Reserve Maintenance Fund is funded from the Revenue Fund. Similar to the O&M Fund, the Trust Agreement requires a transfer be made to cover maintenance expenditures and maintain a required fund balance of \$5.0 million (see Revenue Distribution, page 139, and Cash Balances, page 134).

	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	Five-Year Totals FY2021 - FY2025
Net Revenues Available for Reserve Maintenance Projects	\$ 148,115,101	\$ 160,374,457	\$ 173,625,850	\$ 214,971,116	\$ 266,852,259	\$ 315,520,679	\$ 1,131,344,362
<b>RESERVE MAINTENANCE FUND</b>							
Estimated Beginning Available Cash Balance	57,316,393	37,622,941	-	-	-	-	37,622,941
<b>INFLOWS</b>							
Transfer from Revenue Fund	11,115,100	13,524,261	59,313,420	54,776,566	61,080,785	60,389,140	249,084,172
<b>TOTAL INFLOWS</b>	11,115,100	13,524,261	59,313,420	54,776,566	61,080,785	60,389,140	249,084,172
<b>OUTFLOWS</b>							
RMF Project Expenses	(26,767,031)	(47,825,211)	(55,858,861)	(51,035,311)	(56,845,999)	(56,003,646)	(267,569,028)
RMF Professional Fees and Other Expenses	(4,041,521)	(3,321,991)	(3,454,559)	(3,741,255)	(4,234,786)	(4,385,494)	(19,138,085)
RMF Salaries/Wages	-	-	-	-	-	-	-
<b>TOTAL OUTFLOWS</b>	(30,808,552)	(51,147,202)	(59,313,420)	(54,776,566)	(61,080,785)	(60,389,140)	(286,707,113)
Estimated Ending Available Cash Balance	37,622,941	-	-	-	-	-	-
<b>RMF Reserve Account</b>							
Estimated Ending Cash Balance/RMF Reserve	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000
Net Revenues Available for Capital Improvement Projects	\$ 137,000,000	\$ 146,850,196	\$ 114,312,430	\$ 160,194,550	\$ 205,771,474	\$ 255,131,539	\$ 882,260,190

## Introduction and Overview (continued)

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### **E. Capital Improvement Fund**

The Capital Improvement Fund (CIF) accounts for the Authority's long-term expansions, improvements, reconstructions and replacements to the NTTA System. Over the next five years, capital improvement projects total \$1.2 billion, which is comprised of \$1.17 billion in project costs (see Capital Improvement Projects, pages 45-130) and \$8.0 million in professional fees. The projects listed for FY2021 to FY2025 have been approved by executive management through the capital plan process (see Capital Plan process, pages 134-136). Funds for the CIF flow from the Revenue Fund to the extent there are excess revenues (see Revenue Distribution, page 139). The estimated contribution to CIF over the next five years is \$0.9 billion. Additionally, the Authority may issue bonds or commercial paper to finance capital improvement projects. The FY2021 – FY2025 Capital Plan contains \$41.2 million for subordinated debt and \$76.6 million for ISTEPA loan payments. The Authority's executive management anticipates establishing an \$87.5 million Rainy Day Fund by 2022. (see Cash Balance, pages 14 and 134).



# Introduction and Overview (continued)

	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	Five-Year Totals FY2021 - FY2025
<b>Net Revenues Available for Capital Improvement Projects</b>	\$ 137,000,000	\$ 146,850,196	\$ 114,312,430	\$ 160,194,550	\$ 205,771,474	\$ 255,131,539	\$ 882,260,190
<b>CAPITAL IMPROVEMENT FUND</b>							
<b>Estimated Beginning CIF Cash Balance Available for Projects</b>	<b>489,810,426</b>	<b>710,933,028</b>	<b>553,790,866</b>	<b>401,722,752</b>	<b>319,608,991</b>	<b>217,694,146</b>	<b>710,933,028</b>
<b>INFLOWS</b>							
Transfer from Revenue Fund	137,000,000	146,850,196	114,312,430	160,194,550	205,771,474	255,131,539	882,260,190
Commercial Paper/Revolving Note Issuance	300,000,000	-	-	-	-	-	-
Legal Settlement	11,277,997	-	-	-	-	-	-
Reimbursement from Prosper - US 380	-	-	8,000,000	-	-	-	8,000,000
Denton County ILA - DNT Phase 4B	23,900,000	14,057,605	9,442,395	-	-	-	23,500,000
Transfer from Construction Funds (Remaining Bond Proceeds)	56,786,227	-	-	-	-	-	-
Reimbursement from TxDOT - SH 360	-	-	-	-	-	-	-
Transfer from Rainy Day Fund	75,000,000	-	-	-	-	-	-
<b>NET INFLOWS AVAILABLE FOR CIF EXPENSES</b>	<b>603,964,224</b>	<b>160,907,801</b>	<b>131,754,825</b>	<b>160,194,550</b>	<b>205,771,474</b>	<b>255,131,539</b>	<b>913,760,190</b>
<b>OUTFLOWS</b>							
Commercial Paper/Revolving Note Payment	-	-	(100,000,000)	-	-	-	(100,000,000)
CIF Project Expenses	(204,020,121)	(190,751,459)	(158,067,248)	(217,180,899)	(282,063,096)	(318,373,303)	(1,166,436,005)
CIF Consulting/Professional Fees	(1,711,695)	(1,684,220)	(1,834,220)	(1,334,220)	(1,834,220)	(1,334,220)	(8,021,100)
CIF Salaries/Wages	-	-	-	-	-	-	-
Transfer to Debt Service Funds	(150,000,000)	(15,567,830)	-	-	-	-	(15,567,830)
Transfer to NTTA System Construction Funds	-	-	-	-	-	-	-
Transfer to CIF Bond Payment Account	(11,787,411)	(7,224,057)	(8,599,075)	(8,470,796)	(8,466,608)	(8,455,588)	(41,216,124)
Transfer to Debt Service Fund for ISTEPA Payment	(15,322,396)	(15,322,396)	(15,322,396)	(15,322,396)	(15,322,396)	(15,322,396)	(76,611,980)
Transfer to CIF Rainy Day Fund Account	-	(87,500,000)	-	-	-	-	(87,500,000)
<b>TOTAL OUTFLOWS</b>	<b>(382,841,623)</b>	<b>(318,049,962)</b>	<b>(283,822,939)</b>	<b>(242,308,311)</b>	<b>(307,686,320)</b>	<b>(343,485,507)</b>	<b>(1,495,353,039)</b>
<b>Estimated Ending CIF Cash Balance Available for Projects</b>	<b>710,933,028</b>	<b>553,790,866</b>	<b>401,722,752</b>	<b>319,608,991</b>	<b>217,694,146</b>	<b>129,340,178</b>	<b>129,340,178</b>
<b>CIF Bond Payment Account</b>							
<b>Estimated Beginning CIF Bond Payment Account Cash Balance</b>	<b>1,413,657</b>	<b>1,413,657</b>	<b>4,675,574</b>	<b>4,642,022</b>	<b>4,481,486</b>	<b>4,311,651</b>	<b>1,413,657</b>
Transfers from CIF Cash Account	11,787,411	7,224,057	8,599,075	8,470,796	8,466,608	8,455,588	41,216,124
Transfer to Debt Service Fund for CIF Subordinated Debt Payment	(11,787,411)	(3,962,140)	(8,632,627)	(8,631,332)	(8,636,443)	(8,641,552)	(38,504,094)
<b>Estimated Ending CIF Bond Payment Account Cash Balance</b>	<b>1,413,657</b>	<b>4,675,574</b>	<b>4,642,022</b>	<b>4,481,486</b>	<b>4,311,651</b>	<b>4,125,687</b>	<b>4,125,687</b>
<b>CIF Rainy Day Fund Account</b>							
<b>Estimated Beginning CIF Rainy Day Fund Account Cash Balance</b>	<b>75,000,000</b>	<b>-</b>	<b>75,000,000</b>	<b>87,500,000</b>	<b>87,500,000</b>	<b>87,500,000</b>	<b>-</b>
Transfers from CIF Cash Account	-	75,000,000	12,500,000	-	-	-	87,500,000
Transfers to CIF Cash Account	(75,000,000)	-	-	-	-	-	-
<b>Estimated Ending CIF Rainy Day Fund Account Cash Balance</b>	<b>-</b>	<b>75,000,000</b>	<b>87,500,000</b>	<b>87,500,000</b>	<b>87,500,000</b>	<b>87,500,000</b>	<b>87,500,000</b>
<b>Estimated Ending Total CIF Cash Balances</b>	<b>\$ 712,346,684</b>	<b>\$ 633,466,440</b>	<b>\$ 493,864,774</b>	<b>\$ 411,590,477</b>	<b>\$ 309,505,797</b>	<b>\$ 220,965,865</b>	<b>\$ 220,965,865</b>

# Project Types & Funding Sources

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## **RESERVE MAINTENANCE PROJECTS**

Projects included in this category are maintenance projects that do not recur on an annual or more frequent basis. These are projects required to maintain the system assets at an agency approved level; emergency repairs to maintain safety or prevent loss of revenue; and, for replacement or additional fleet and equipment. Additional projects include the replacement or purchase of additional computer equipment (including software) and replacement of All-Electronic and communication equipment. Funding for these projects comes from the remaining revenues available after Operation and Maintenance (O&M) costs and debt service obligations have been satisfied.

## **CAPITAL IMPROVEMENT PROJECTS**

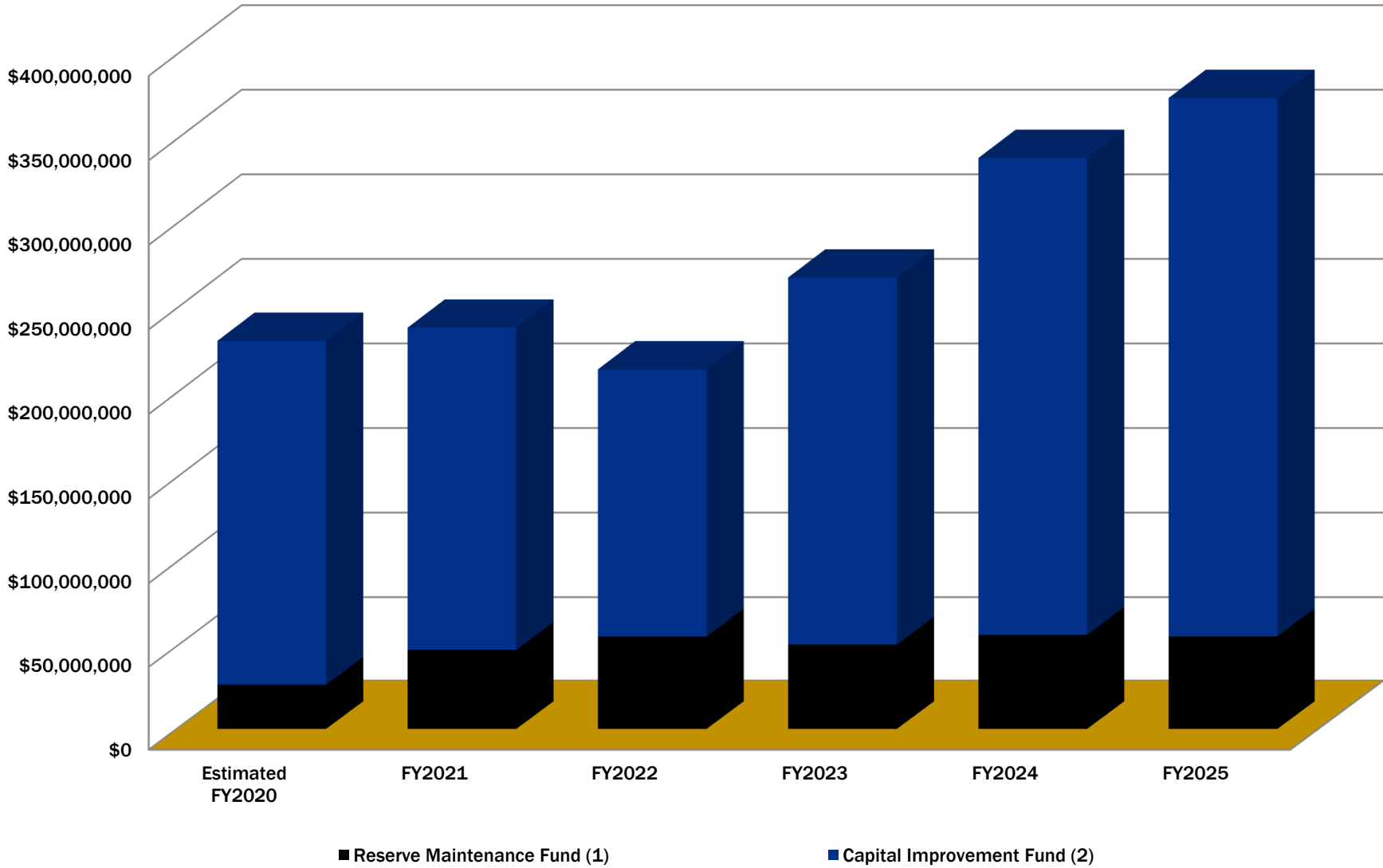
Projects included in this category are large, nonrecurring items that increase toll revenue; improve safety, increase capacity or efficiency of the system. These projects are new roadway construction, existing roadway expansions, improvements and/or reconstruction and major emergency repairs. In addition, projects with capital expenses unrelated to new road construction and/or maintenance are included here such as purchasing and implementing new systems, software and enhancements of existing system. Funding for these projects comes from the remaining annual revenues available after O&M costs, debt service and reserve maintenance costs have been satisfied. In some cases, the Authority may issue debt for capital improvement projects.

**FY2021 - FY2025 CAPITAL PLAN  
SUMMARY PROJECT COSTS BY FUND**

<b>Project Type</b>	<b>Estimated FY2020</b>	<b>FY2021</b>	<b>FY2022</b>	<b>FY2023</b>	<b>FY2024</b>	<b>FY2025</b>	<b>Five Year Total FY2021 - FY2025</b>
Reserve Maintenance Fund (1)	\$26,767,031	\$47,825,211	\$55,858,861	\$51,035,311	\$56,845,999	\$56,003,646	\$267,569,028
Capital Improvement Fund (2)	204,020,121	190,751,459	158,067,248	217,180,899	282,063,096	318,373,303	1,166,436,005
<b>Totals</b>	<b>\$230,787,152</b>	<b>\$238,576,670</b>	<b>\$213,926,109</b>	<b>\$268,216,210</b>	<b>\$338,909,095</b>	<b>\$374,376,949</b>	<b>\$1,434,005,033</b>

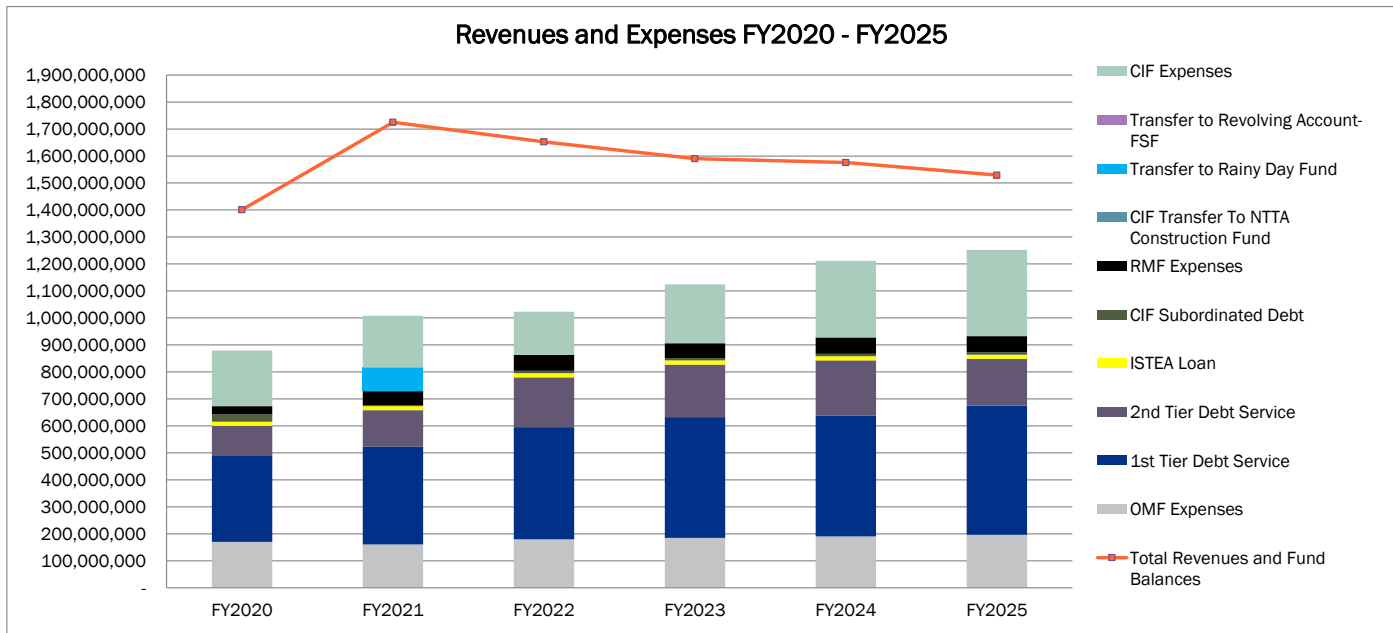
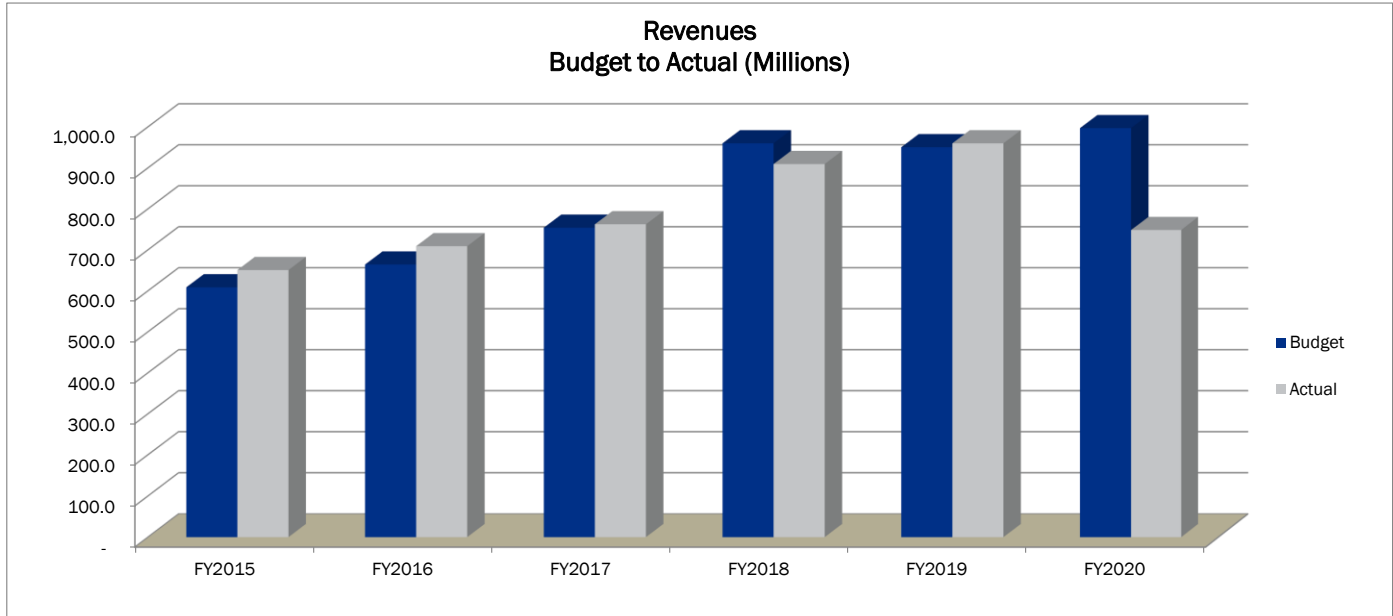
Report contains only project costs.  
 (1) List of projects see page 24-25.  
 (2) List of projects see pages 55-57.

### Capital Plan Costs by Fund

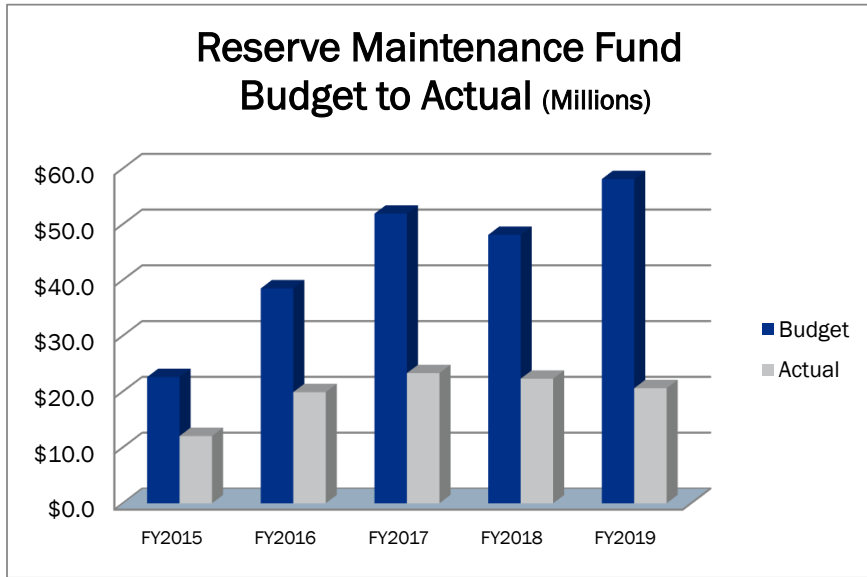




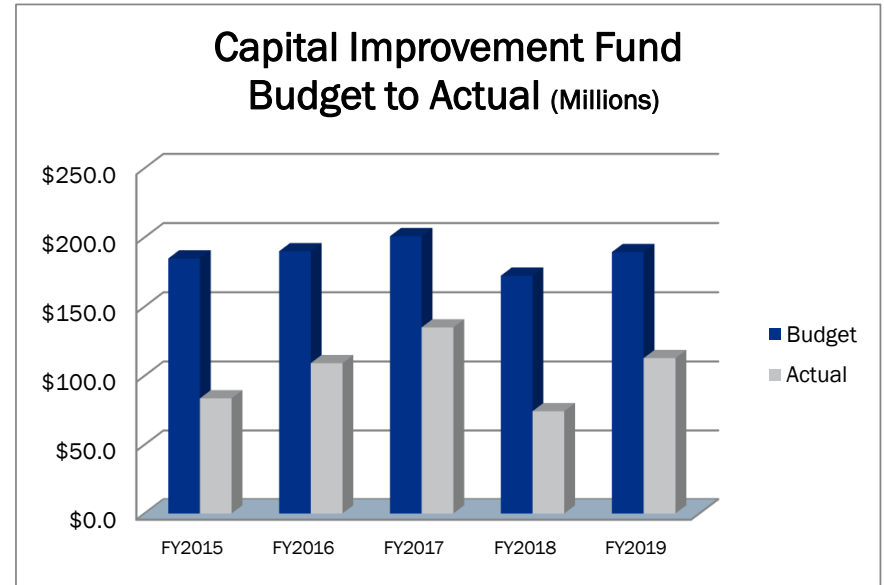
### Informational Graphs



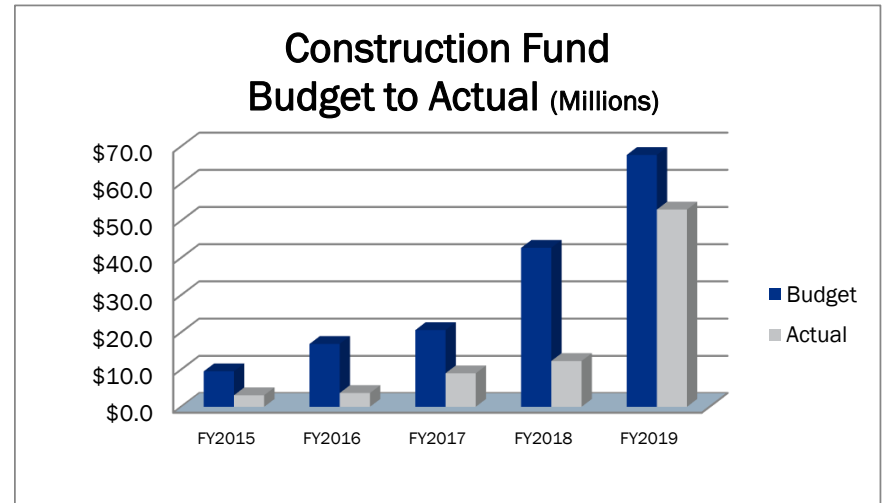
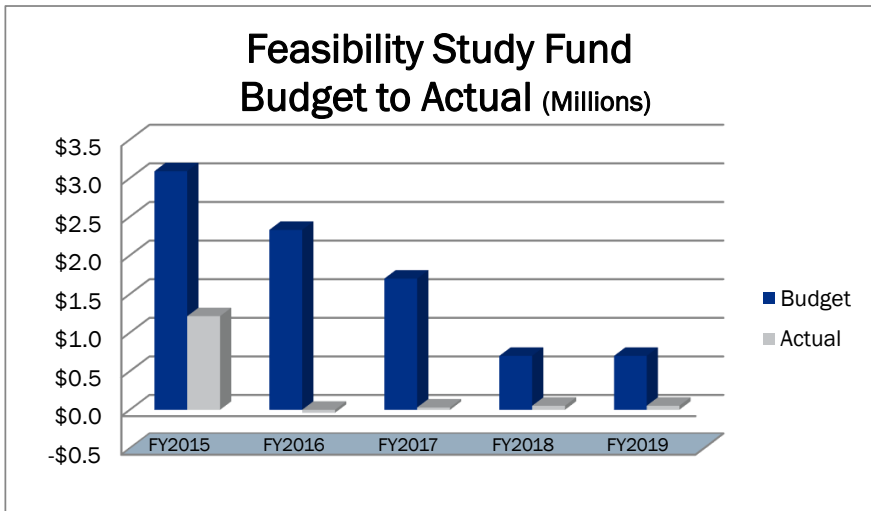
## Historical Informational Graphs



RMF Projects re-evaluated and prioritized throughout the year

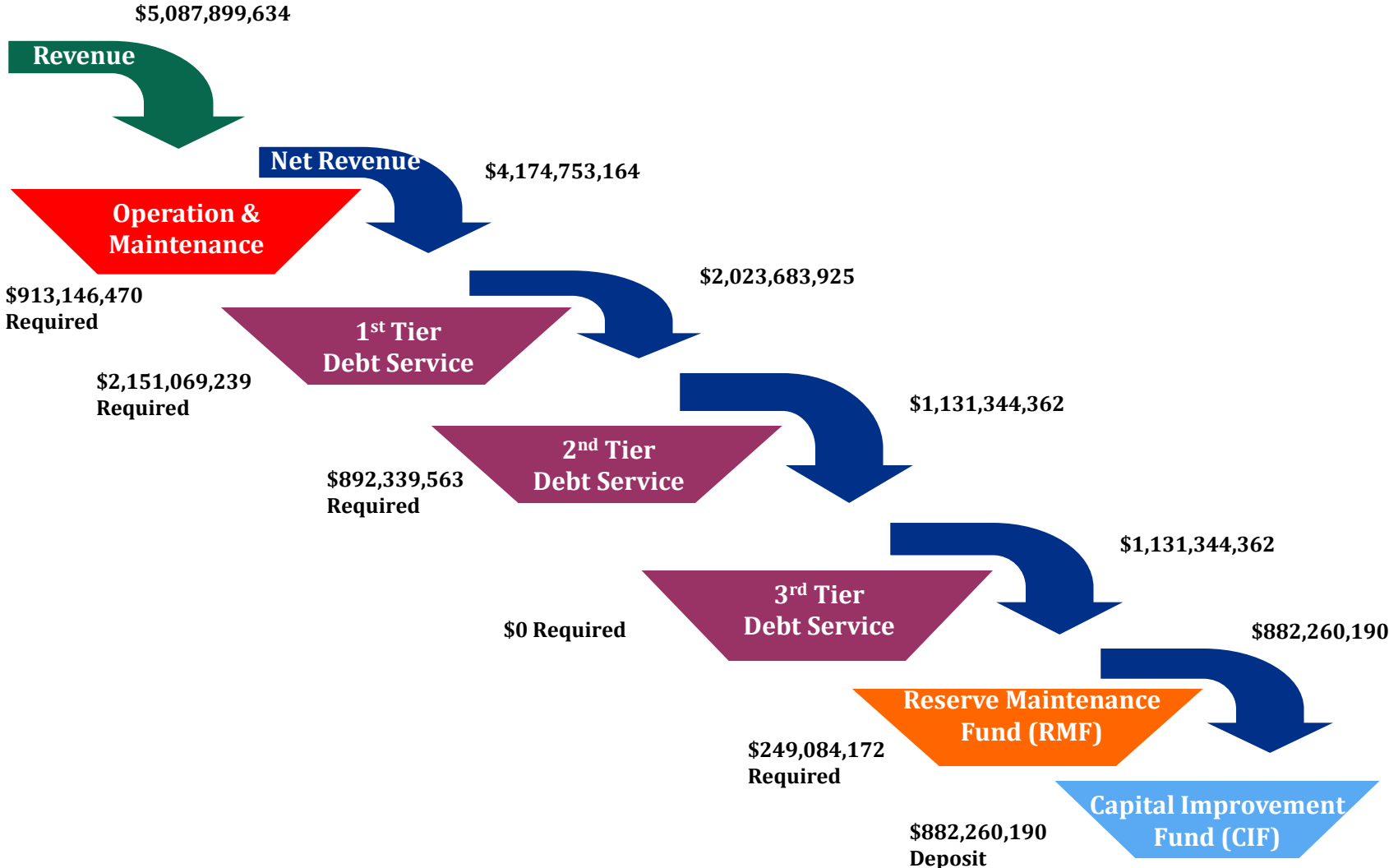


CIF Projects re-evaluated and prioritized throughout the year



All construction projects coming to completion

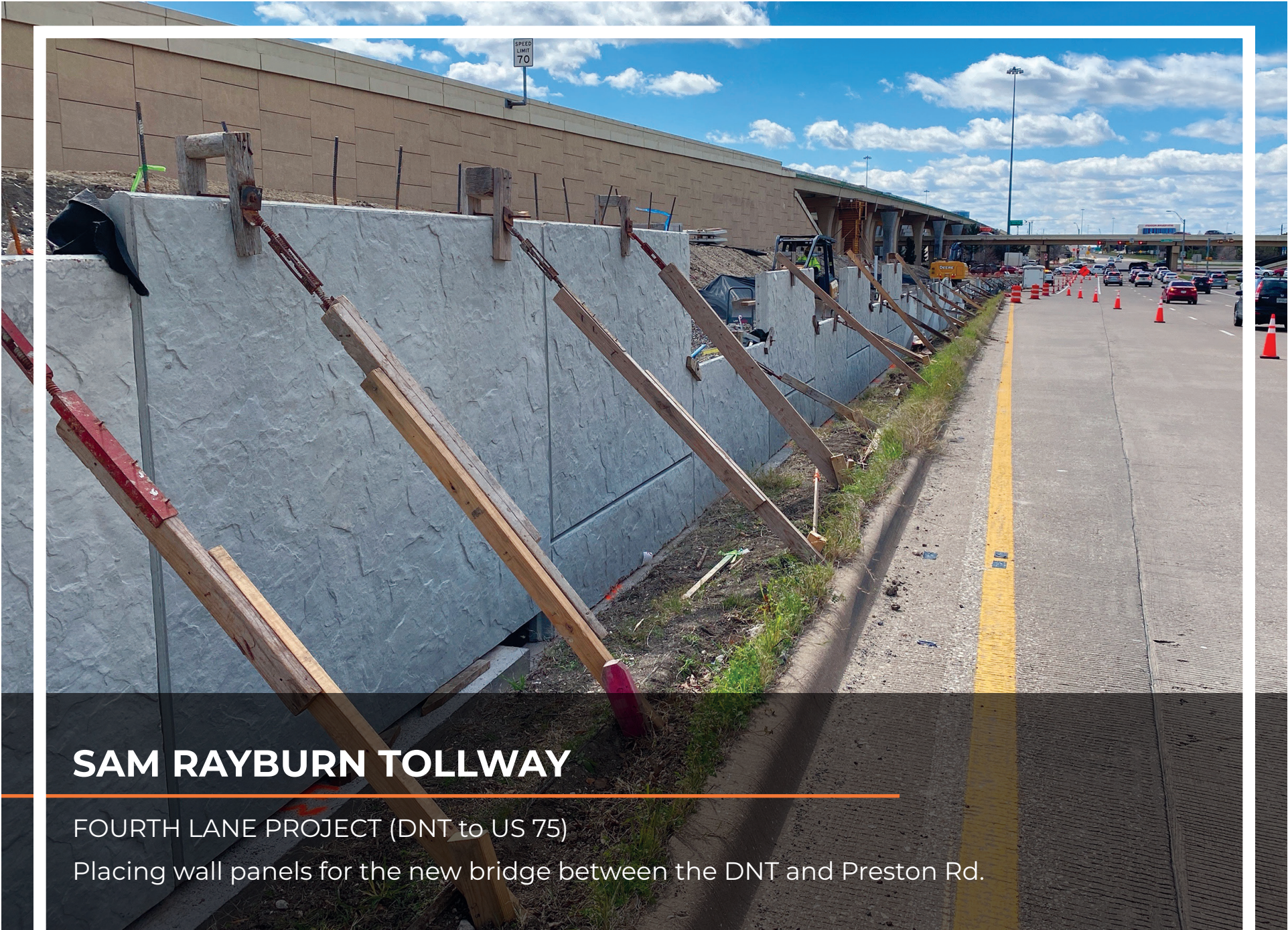
# NTTA System Flow of Funds FY2021 - FY2025



See pages 8-15 for uses of funds.

# RESERVE MAINTENANCE PROJECTS





# SAM RAYBURN TOLLWAY

FOURTH LANE PROJECT (DNT to US 75)

Placing wall panels for the new bridge between the DNT and Preston Rd.



# Reserve Maintenance Projects

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Reserve maintenance projects include repairs and maintenance, painting, renewals, replacements, improvements and other projects necessary for the safe or efficient operation of NTTA toll roads or to prevent loss of revenues. These projects are not typically included as part of the normal, day-to-day operations, but should be viewed as part of the overall long-term maintenance of NTTA assets.

Projects include, but are not limited to the following:

## **ANNUAL ASSET CONDITION INSPECTION**

An inspection of NTTA assets is performed annually to assist in identifying potential maintenance projects. This allows staff to properly allocate funds during the annual budgeting process. It also allows staff to plan for future major maintenance expenditures. The Capital Plan includes \$10.4 million for this category over the next five years.

## **SYSTEM-WIDE MAINTENANCE PROJECTS (ROADWAY, BRIDGES, BUILDINGS, WALLS AND OTHER ASSETS)**

NTTA has chosen to maintain all of its long-term assets at an approved performance level. Each year after the annual asset condition inspection is completed by the general engineering consultant; individual projects are prioritized and then selected for inclusion into the following fiscal year budget. The Capital Plan includes \$187.6 million for this category over the next five years.

## **FLEET AND EQUIPMENT PURCHASES / ADDITIONAL & REPLACEMENTS**

NTTA purchases additional fleet vehicles and equipment in proportion to any increases in lane miles. NTTA replaces fleet vehicles and equipment at specific intervals based on useful life and necessity. Once purchased, fleet vehicles and equipment used primarily for ongoing operations and maintenance. The Capital Plan includes \$12.2 million for this category over the next five years.

## **HARDWARE/SOFTWARE REPLACEMENTS AND UPGRADES**

NTTA purchases and replaces hardware/software at specific intervals based on useful life and necessity. Once implemented, the hardware/software are primarily used for ongoing operations and maintenance. The Five-Year Capital Plan includes \$57.3 million for this category.



## Reserve Maintenance Fund - (1201) - Project List FY2021 - FY2025 CAPITAL PLAN

Department	Project	Estimated FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	Five Year Total FY2021 - FY2025
Information Technology - (20111)	1000431 - IT Roadway Systems (1)	\$5,365,000	\$7,969,130	\$3,100,000	\$1,400,000	\$1,400,000	\$800,000	\$14,669,130
Information Technology - (20111)	1000825 - Server Hardware Upgrades and Replacements (2)	8,420,000	4,000,000	8,970,000	8,970,000	8,970,000	8,970,000	39,880,000
Information Technology - (20111)	1000826 - Computer Hardware Upgrades and Replacements (3)	1,676,500	495,000	1,676,500	1,676,500	1,676,500	1,676,500	7,201,000
Information Technology - (20111)	1000827 - Printer Hardware Upgrades and Replacements (4)	150,000	150,000	150,000	200,000	200,000	200,000	900,000
Information Technology - (20111)	1000828 - Network Equip. & Comm. Systems Replacement (5)	2,088,500	719,500	1,888,500	1,888,500	1,888,500	1,500,000	7,885,000
Information Technology - (20111)	1000829 - Software and Licensing (6)	212,000	210,000	298,000	298,000	298,000	298,000	1,402,000
	<b>Information Technology - (20111) Total</b>	<b>17,912,000</b>	<b>13,543,630</b>	<b>16,083,000</b>	<b>14,433,000</b>	<b>14,433,000</b>	<b>13,444,500</b>	<b>71,937,130</b>
Admin Infrastructure - (20221)	1000009 - Landscaping (7)	570,000	550,000	550,000	550,000	550,000	550,000	2,750,000
Admin Infrastructure - (20221)	1000026 - RMF - Fleet (8)	3,576,440	2,319,600	2,550,000	2,554,500	2,408,000	2,416,500	12,248,600
Admin Infrastructure - (20221)	1000030 - Systemwide Facility Improvements (9)	2,952,000	3,045,000	3,175,000	5,740,000	2,735,000	2,675,000	17,370,000
	<b>Admin Infrastructure - (20221) Total</b>	<b>7,098,440</b>	<b>5,914,600</b>	<b>6,275,000</b>	<b>8,844,500</b>	<b>5,693,000</b>	<b>5,641,500</b>	<b>32,368,600</b>
Project Delivery - (20511)	1000011 - Restriping (10)	5,690,800	7,005,172	7,678,813	1,953,568	8,218,115	9,008,142	33,863,810
Project Delivery - (20511)	1000013 - Erosion Mitigation & Drainage Repairs (11)	2,015,000	630,000	7,075,000	3,767,500	1,725,000	975,000	14,172,500
Project Delivery - (20511)	1000018 - Pavement Repair and Rehab. (12)	8,494,100	12,605,000	4,906,100	9,010,600	16,738,750	19,136,400	62,396,850
Project Delivery - (20511)	1000020 - Signage (13)	5,661,100	3,813,208	5,196,158	6,201,780	5,125,465	2,811,835	23,148,446
Project Delivery - (20511)	1000028 - Systemwide Bridge Repair (14)	2,735,000	2,093,636	2,931,364	3,430,000	2,425,000	1,575,000	12,455,000
Project Delivery - (20511)	1000031 - Annual Inspection Program (15)	1,755,705	1,799,965	1,933,426	1,939,363	2,387,669	2,361,269	10,421,692
Project Delivery - (20511)	1000040 - Wall, Railings & Structural Steel Elements (16)	6,800,000	345,000	2,840,000	1,405,000	100,000	1,050,000	5,740,000
Project Delivery - (20511)	1000041 - Lighting Replacement or Repair (17)	240,000	75,000	940,000	50,000	0	0	1,065,000
	<b>Project Delivery - (20511) Total</b>	<b>33,391,705</b>	<b>28,366,981</b>	<b>33,500,861</b>	<b>27,757,811</b>	<b>36,719,999</b>	<b>36,917,646</b>	<b>163,263,298</b>
<b>Totals</b>		<b>\$58,402,145</b>	<b>\$47,825,211</b>	<b>\$55,858,861</b>	<b>\$51,035,311</b>	<b>\$56,845,999</b>	<b>\$56,003,646</b>	<b>\$267,569,028</b>

Department	Project	Estimated FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	Five Year Total FY2021 - FY2025
<b>FY2020 Carryover Projects and Adjustments</b>								
(1)Information Technology - (20111)	1000431 - IT Roadway Systems	(3,551,678)	0	0	0	0	0	0
(2)Information Technology - (20111)	1000825 - Server Hardware Upgrades and Replacements	(8,063,723)	0	0	0	0	0	0
(3)Information Technology - (20111)	1000826 - Computer Hardware Upgrades and Replacements	(1,212,243)	0	0	0	0	0	0
(4)Information Technology - (20111)	1000827 - Printer Hardware Upgrades and Replacements	(149,618)	0	0	0	0	0	0
(5)Information Technology - (20111)	1000828 - Network Equip. & Comm. Systems Replacement	(1,840,007)	0	0	0	0	0	0
(6)Information Technology - (20111)	1000829 - Software and Licensing	(149,220)	0	0	0	0	0	0
(7)Admin Infrastructure - (20221)	1000009 - Landscaping	(333,918)	0	0	0	0	0	0
(8)Admin Infrastructure - (20221)	1000026 - RMF - Fleet	(228,690)	0	0	0	0	0	0
(9)Admin Infrastructure - (20221)	1000030 - Systemwide Facility Improvements	(1,002,853)	0	0	0	0	0	0
(10)Project Delivery - (20511)	1000011 - Restriping	(3,363,818)	0	0	0	0	0	0
(11)Project Delivery - (20511)	1000013 - Erosion Mitigation & Drainage Repairs	(282,035)	0	0	0	0	0	0
(12)Project Delivery - (20511)	1000018 - Pavement Repair and Rehab.	(2,357,933)	0	0	0	0	0	0
(13)Project Delivery - (20511)	1000020 - Signage	(4,470,724)	0	0	0	0	0	0
(14)Project Delivery - (20511)	1000028 - Systemwide Bridge Repair (Adjustment)	(1,154,484)	0	0	0	0	0	0
(15)Project Delivery - (20511)	1000031 - Annual Inspection Program	(284,710)	0	0	0	0	0	0
(16)Project Delivery - (20511)	1000040 - Wall, Railings & Structural Steel Elements	(2,972,080)	0	0	0	0	0	0
(17)Project Delivery - (20511)	1000041 - Lighting Replacement or Repair	(217,380)	0	0	0	0	0	0
<b>Totals</b>		<b>(\$31,635,114)</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total FY2021 - FY2025 Reserve Maintenance Project Costs</b>		<b>\$26,767,031</b>	<b>\$47,825,211</b>	<b>\$55,858,861</b>	<b>\$51,035,311</b>	<b>\$56,845,999</b>	<b>\$56,003,646</b>	<b>\$267,569,028</b>

Report contains only project costs.



## Project Detail

<b>Project Number:</b>	1000431	<b>Budget Year:</b>	2021
<b>Project Title:</b>	IT Roadway Systems	<b>Manager:</b>	Information Technology
<b>Fund:</b>	RMF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	

**Description:** IT roadway systems parts and tools to maintain the system.

**Justification:** IT roadway systems must be maintained in proper working order to collect all toll data.

**Comments:** N/A

**Project Forecast**  
**Year**

	<b>Total Budget</b>
2021	\$ 7,969,130
2022	3,100,000
2023	1,400,000
2024	1,400,000
2025	800,000
	<b>\$ 14,669,130</b>

**Project Details 2021**

<b>Account</b>	<b>Description</b>	<b>Total Amount</b>
<b>Expenses</b>		
541401	Infrastructure	7,969,130
	<b>Total Expenses:</b>	<b>\$ 7,969,130</b>

**Operating Budget Impact**

<b>Budget Year</b>	<b>Exp (Rev)</b>	<b>FTE Impact</b>
None	None	None

## Project Detail

<b>Project Number:</b>	1000825	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Server Hardware Upgrades and Replacements	<b>Manager:</b>	Information Technology
<b>Fund:</b>	RMF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** NTTA servers and storage infrastructure are on a five year replacement schedule.

**Justification:** The infrastructure for the various NTTA systems must have current support and maintenance agreements.

**Comments:** N/A

**Project Forecast**  
**Year**

	<b>Total Budget</b>
2021	\$ 4,000,000
2022	8,970,000
2023	8,970,000
2024	8,970,000
2025	8,970,000
	<b>\$ 39,880,000</b>

**Project Details 2021**

<b>Account</b>	<b>Description</b>	<b>Total Amount</b>
<b>Expenses</b>		
531641	Computers	4,000,000
	<b>Total Expenses:</b>	<b>\$ 4,000,000</b>

**Operating Budget Impact**

<b>Budget Year</b>	<b>Exp (Rev)</b>	<b>FTE Impact</b>
None	None	None

## Project Detail

<b>Project Number:</b>	1000826	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Computer Hardware Upgrades and Replacements	<b>Manager:</b>	Information Technology
<b>Fund:</b>	RMF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Supplying or replacing workstations and laptops for staff members throughout the Authority.

**Justification:** Computers/Laptops have a usable lifespan of four years. An extended warranty program is used to ensure the resource is available through the usable time frame.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 495,000
2022	1,676,500
2023	1,676,500
2024	1,676,500
2025	1,676,500
	\$ 7,201,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
531641	Computers	495,000
	<b>Total Expenses:</b>	<b>\$ 495,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

## Project Detail

<b>Project Number:</b>	1000827	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Printer Hardware Upgrades and Replacements	<b>Manager:</b>	Information Technology
<b>Fund:</b>	RMF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Replacement of printers after useful life as expired. Average replacement cost for printers is \$3,500.

**Justification:** Printer's average warranty is four years. Replaced after warranty expires to ensure availability of critical resource. One quarter of inventory is 40 printers.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 150,000
2022	150,000
2023	200,000
2024	200,000
2025	200,000
	<b>\$ 900,000</b>

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
531641	Computers	150,000
	<b>Total Expenses:</b>	<b>\$ 150,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	1000828	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Network Equip. & Comm. Systems Replacement	<b>Manager:</b>	Information Technology
<b>Fund:</b>	RMF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Non-recurring purchase of hardware associated with requirements identified by NTTA departments related to staff growth, hardware obsolescence, etc.

**Justification:** Increase in employee headcount or to increase efficiencies require the acquisition of hardware.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 719,500
2022	1,888,500
2023	1,888,500
2024	1,888,500
2025	1,500,000
	<b>\$ 7,885,000</b>

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
531106	Electronic Supplies	719,500
	<b>Total Expenses:</b>	<b>\$ 719,500</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None



## Project Detail

<b>Project Number:</b>	1000829	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Software and Licensing	<b>Manager:</b>	Information Technology
<b>Fund:</b>	RMF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Software and other services associated with requirements identified by NTTA departments.

**Justification:** Software required for increased headcount and to increase the efficiency of operations.

**Comments:** N/A

**Project Forecast**  
**Year**

	<b>Total Budget</b>
2021	\$ 210,000
2022	298,000
2023	298,000
2024	298,000
2025	298,000
	<b>\$ 1,402,000</b>

**Project Details 2021**

<b>Account</b>	<b>Description</b>	<b>Total Amount</b>
<b>Expenses</b>		
531651	Software	210,000
	<b>Total Expenses:</b>	<b>\$ 210,000</b>

**Operating Budget Impact**

<b>Budget Year</b>	<b>Exp (Rev)</b>	<b>FTE Impact</b>
None	None	None

### Project Detail

<b>Project Number:</b>	1000009	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Landscape	<b>Manager:</b>	Maintenance
<b>Fund:</b>	RMF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20200-Total Maintenance	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	

**Description:** Revitalization/replacement of plants in landscape beds due to age or disease.

**Justification:** To maintain NTTA assets to the Board-approved level of quality. Projects must be performed at the "right time" to prevent higher cost of repairs at a later time.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 550,000
2022	550,000
2023	550,000
2024	550,000
2025	550,000
	\$ 2,750,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
522202	Landscaping	550,000
	<b>Total Expenses:</b>	<b>\$ 550,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	1000026	<b>Budget Year:</b>	2021
<b>Project Title:</b>	RMF - Fleet	<b>Manager:</b>	Maintenance
<b>Fund:</b>	RMF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20200-Total Maintenance	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Fleet/Equipment	<b>Prior Years Cost:</b>	

**Description:** Purchase/replacement of trucks, fleet & equipment.

**Justification:** Replace equipment determined more costly to operate & maintain than new equipment or is unable to operate at a level effective enough to maintain NTTA's system to Board-approved performance level.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 2,319,600
2022	2,550,000
2023	2,554,500
2024	2,408,000
2025	2,416,500
	\$ 12,248,600

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
531611	Machinery	850,000
531621	Vehicles	1,469,600
	<b>Total Expenses:</b>	<b>\$ 2,319,600</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	1000030	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Facility Improvements	<b>Manager:</b>	Maintenance
<b>Fund:</b>	RMF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20200-Total Maintenance	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	

**Description:** Building maintenance expenses for preventative and cyclical maintenance such as generator repairs, interior painting, carpet replacements, and AATT sump pump repairs.

**Justification:** To maintain NTTA assets to the Board-approved level of quality. Projects must be performed at the "right time" to prevent higher cost of repairs at a later time.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 3,045,000
2022	3,175,000
2023	5,740,000
2024	2,735,000
2025	2,675,000
	\$ 17,370,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
541302	Building Improvements	3,045,000
	<b>Total Expenses:</b>	<b>\$ 3,045,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

## Project Detail

<b>Project Number:</b>	1000011	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Restriping	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	RMF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	

**Description:** Major roadway re-striping projects. To address pavement markers, delineation and object markers that have met the end of their useful life.

**Justification:** To maintain visibility and reflectivity, especially during nighttime and inclement weather conditions to enhance traffic safety.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 7,005,172
2022	7,678,813
2023	1,953,568
2024	8,218,115
2025	9,008,142
	\$ 33,863,810

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
522204	Pavement Markings	7,005,172
	<b>Total Expenses:</b>	<b>\$ 7,005,172</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None



## Project Detail

<b>Project Number:</b>	1000013	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Erosion Mitigation & Drainage Repairs	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	RMF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	

**Description:** Major channel, ditch, or embankment erosion projects. To mitigate erosion along channels encroaching on bridge columns or outfall systems, stabilize embankments, add/repair/enlarge drainage structures to adequately convey water, or regrade ditches to re-establish proper flow

**Justification:** To maintain NTTA assets to the Board-approved level of quality. Projects must be performed at the "right time" to prevent higher cost of repairs at a later time.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 630,000
2022	7,075,000
2023	3,767,500
2024	1,725,000
2025	975,000
	\$ 14,172,500

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
541401	Infrastructure	630,000
	<b>Total Expenses:</b>	<b>\$ 630,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

## Project Detail

<b>Project Number:</b>	1000018	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Pavement Repair and Rehab	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	RMF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	

**Description:** Major roadway repair or replacement projects. To address base failures, significant sub-grade movement, joint deterioration, unsealed joints and cracks, pavement surface deterioration of main lanes and shoulders & surface skid resistance.

**Justification:** To maintain NTTA assets to the Board-approved level of quality. Projects must be performed at the "right time" to prevent higher cost of repairs at a later time.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 12,605,000
2022	4,906,100
2023	9,010,600
2024	16,738,750
2025	19,136,400
	\$ 62,396,850

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
522205	Pavement & Shoulders	12,605,000
	<b>Total Expenses:</b>	<b>\$ 12,605,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

## Project Detail

<b>Project Number:</b>	1000020	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Signage	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	RMF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	

**Description:** Major roadway sign replacement projects. To address large guide sign and roadside panels that have met the end of their useful life due to degradation of their retroreflectivity.

**Justification:** To maintain visibility and reflectivity to enhance traffic safety.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 3,813,208
2022	5,196,158
2023	6,201,780
2024	5,125,465
2025	2,811,835
	\$ 23,148,446

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
522203	Signing Expense	3,813,208
	<b>Total Expenses:</b>	<b>\$ 3,813,208</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

## Project Detail

<b>Project Number:</b>	1000028	<b>Budget Year:</b>	2021
<b>Project Title:</b>	System-Wide Bridge Repair	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	RMF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	

**Description:** Bridge repair projects include such items as approach slab settlement or buckling, abutment wall cracking, bent cap cracking, wearing of driving surface (skid resistance), and deck deterioration.

**Justification:** To maintain NTTA assets to the Board-approved level of quality and ultimately for the safety of NTTA's customers. Projects must be performed at the "right time" to prevent higher cost of repairs at a later time.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 2,093,636
2022	2,931,364
2023	3,430,000
2024	2,425,000
2025	1,575,000
	\$ 12,455,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
522206	Bridge Repairs	2,093,636
	<b>Total Expenses:</b>	<b>\$ 2,093,636</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

## Project Detail

<b>Project Number:</b>	1000031	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Inspection Services	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	RMF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	

**Description:** Annual visual inspection of NTTA's assets including pavement, bridges, walls, roadside appurtenances, buildings/facilities, etc.

**Justification:** To assess asset condition and to assist in identifying potential repair projects as required by the Trust Agreement. Inspection process allows NTTA to maintain their assets to the Board-approved performance level.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 1,799,965
2022	1,933,426
2023	1,939,363
2024	2,387,669
2025	2,361,269
	\$ 10,421,692

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	1,799,965
	<b>Total Expenses:</b>	<b>\$ 1,799,965</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None



## Project Detail

<b>Project Number:</b>	1000040	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Walls, Railings and Steel Elements Repair	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	RMF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	

**Description:** Retaining, screen and sound walls; railings; and structural steel element surface finish improvements. Projects include items such as surface protection of various walls, railings and structural steel elements.

**Justification:** To maintain NTTA assets to the Board-approved level of quality, and ultimately for the safety of NTTA customers. Projects must be performed at the "right time" to prevent higher cost of repairs at a later time.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 345,000
2022	2,840,000
2023	1,405,000
2024	100,000
2025	1,050,000
	\$ 5,740,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
541401	Infrastructure	345,000
	<b>Total Expenses:</b>	<b>\$ 345,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	1000041	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Lighting Replacement or Repair	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	RMF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	

**Description:** Roadway illumination repair or replacement projects. To address lighting needs, replacement or upgrades due to improvements in technology.

**Justification:** To maintain or improve visibility to enhance traffic safety.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 75,000
2022	940,000
2023	50,000
2024	-
2025	-
	\$ 1,065,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521213	General Engineering	75,000
	<b>Total Expenses:</b>	<b>\$ 75,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

# CAPITAL IMPROVEMENT PROJECTS



## SAM RAYBURN TOLLWAY

FOURTH LANE PROJECT (West of Denton Tap Rd. to the DNT)

Placing concrete for a column at Lake Vista Dr.



# Capital Improvement Projects

Capital improvement projects may include repairs, resurfacing, additions, renewals, improvements, reconstruction and replacements, acquisition of right-of-way, engineering design and studies. Projects include but are not limited to the following:

## DALLAS NORTH TOLLWAY FOURTH LANE (PGBT TO SRT)

NTTA added a fourth lane to the DNT in each direction between President George Bush Turnpike and the Sam Rayburn Tollway. Construction was completed in early FY2018. The FY2021–FY2025 Capital Plan includes \$0.2 million for minor close-out items. Total project costs are estimated at \$111.2 million.

## DALLAS NORTH TOLLWAY/PRESIDENT GEORGE BUSH TURNPIKE INTERCHANGE IMPROVEMENTS

The DNT/ PGBT interchange improvement project increased capacity and improved the flow of traffic on the northern direct connectors and through the interchange. Construction was completed in early FY2018. The FY2021–FY2025 Capital Plan includes \$0.2 million for minor close-out items. Total project costs are estimated at \$99.1 million.



# Capital Improvement Projects (continued)

## DALLAS NORTH TOLLWAY PHASE 4B

The Phase 4B extension is a 7.7-mile section from FM 428 to Grayson County. The FY2021-FY2025 Capital Plan includes \$9.0 million for planning from FY2024-FY2025. Total project costs are estimated at \$500.0 million.

## DALLAS NORTH TOLLWAY PHASE 4B (FRONTAGE ROAD)

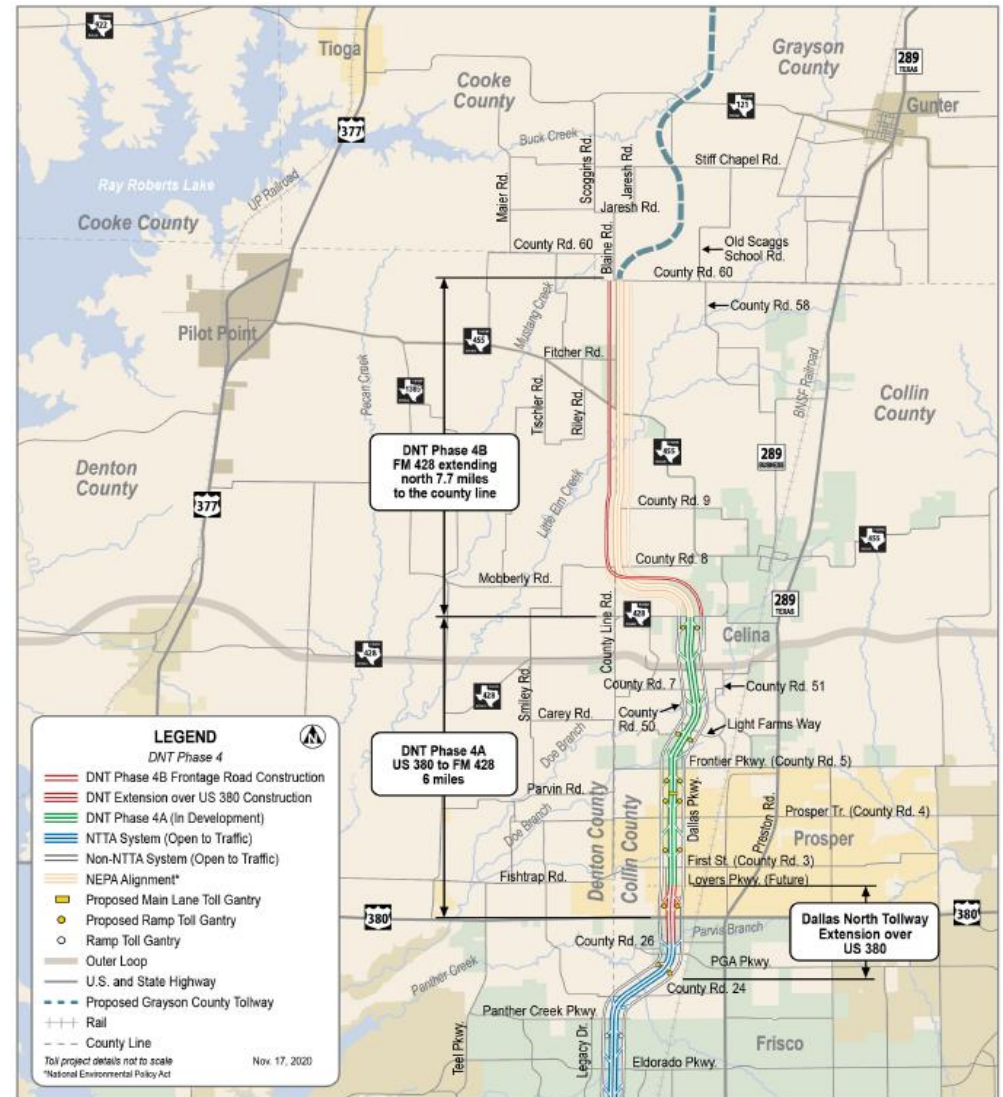
Phase 4B runs 7.7-miles from FM 428 to the Denton/Grayson county line. Construction of Phase 4B frontage road from FM 428 to County Line Road is estimated at \$19.8 million in the FY2021 – FY2025 Capital Plan. The total frontage road cost of \$26.8 million will be reimbursed by Denton County through an Interlocal Agreement.

## DALLAS NORTH TOLLWAY PHASE 4A

The Phase 4A extension is a 6-mile section from U.S. 380 to FM 428. The FY2021-FY2025 Capital Plan includes \$160.0 million for planning in FY2021, design from FY2022-FY2024 and construction from FY2024-FY2025. Total project costs are estimated at \$350.0 million.

## DALLAS NORTH TOLLWAY BRIDGES OVER U.S. 380

NTTA is extending the DNT north by constructing main lane bridges over U.S. 380. Construction began in FY2020 and is scheduled for completion in early FY2023. The FY2021-FY2025 Capital Plan includes the estimated project cost of \$49.3 million. Total project costs are estimated at \$90.3 million.

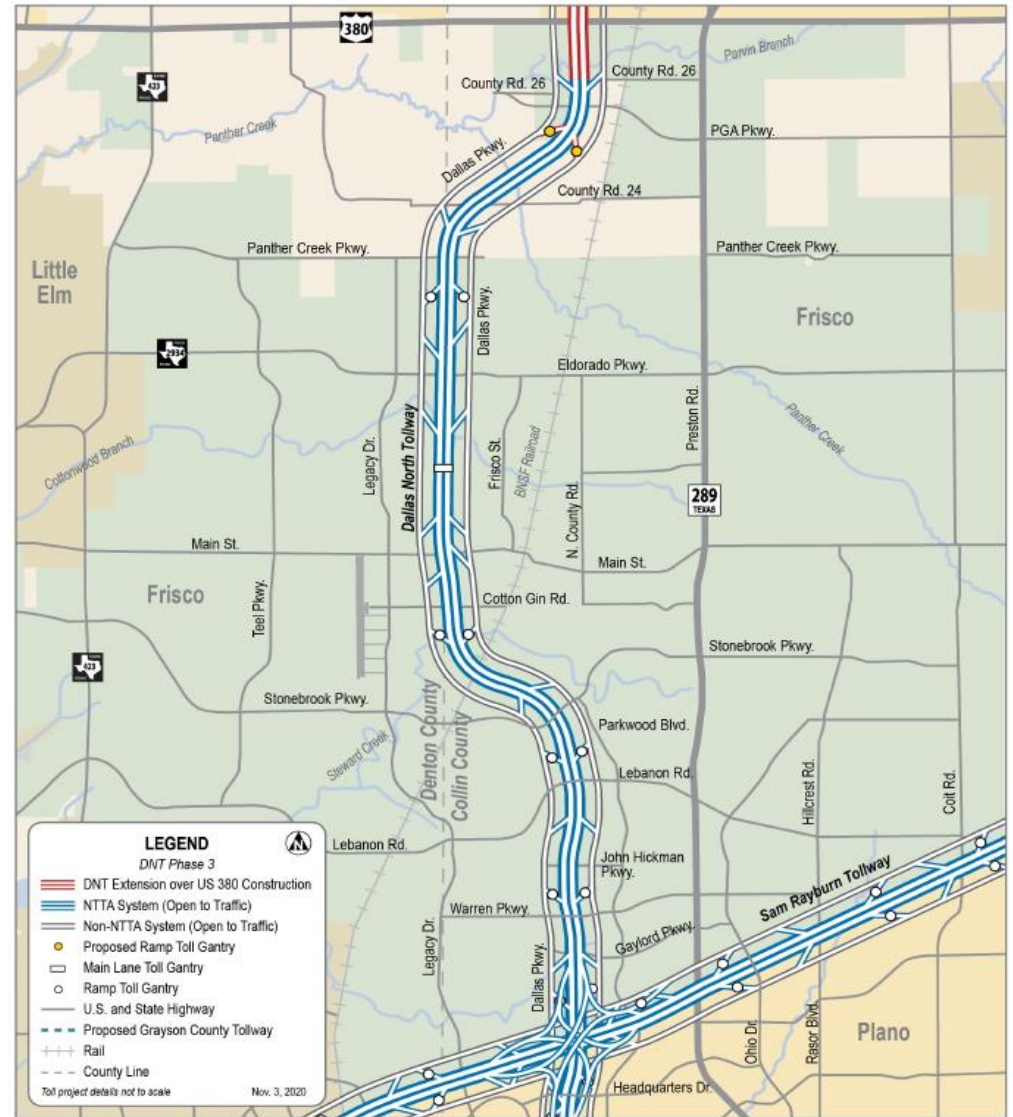




# Capital Improvement Projects (continued)

## DALLAS NORTH TOLLWAY WIDENING (SRT TO U.S. 380)

NTTA is planning to add an additional lane in each direction to DNT from SRT to U.S. 380. Environmental and schematic work was completed in 2020 and design began in FY2021. Construction is anticipated to begin in FY2022 and is scheduled for completion in FY2025. The FY2021-FY2025 Capital Plan includes \$149.3 million for this project. Total project costs are estimated at \$157.3 million.



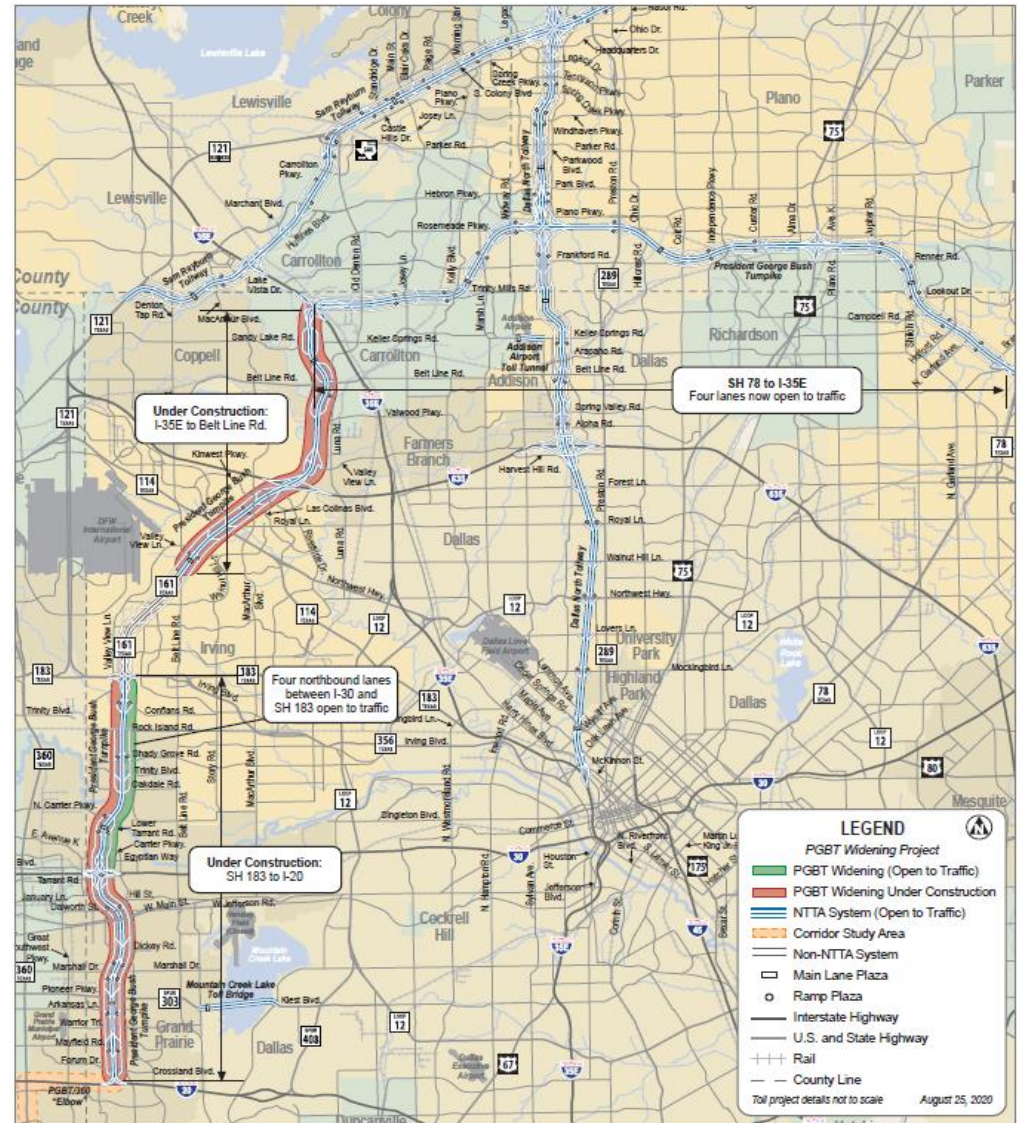
# Capital Improvement Projects (continued)

## PRESIDENT GEORGE BUSH TURNPIKE WIDENING PROJECT BETWEEN I-20 AND SH 78

NTTA is adding a fourth lane in each direction between I-20 and SH 78. Construction is underway and is anticipated to be complete by FY2022.

- Phase 1 [from U.S. 75 and DNT]; construction began May 2015 and opened to traffic November 2016.
- Phase 2 [from SH 78 to U.S. 75]; construction began in mid-2017; completed October 2018.
- Phase 3 [from DNT to I-35E]; construction began July 2017; completed Dec, 2019.
- Phase 4 [from I-35E to north of Belt Line Road (Irving)]; construction began in mid-2019
- Phase 5 [from SH 183 to I-20]; began late 2019.

The FY2021–FY2025 Capital Plan includes \$33.4 million for this project. Total project costs are estimated at \$150.1 million.





# Capital Improvement Projects (continued)

## PGBT/360 TOLLWAY CONNECTOR

The proposed project connects PGBT from south of Mayfield Road to 360 Tollway at north of Camp Wisdom Road in southern Tarrant County. The FY2021-FY2025 Capital Plan includes \$63.2 million for planning and design of this project. The total estimated project costs are \$363.3 million.



# Capital Improvement Projects (continued)

## PGBT EAST BRANCH

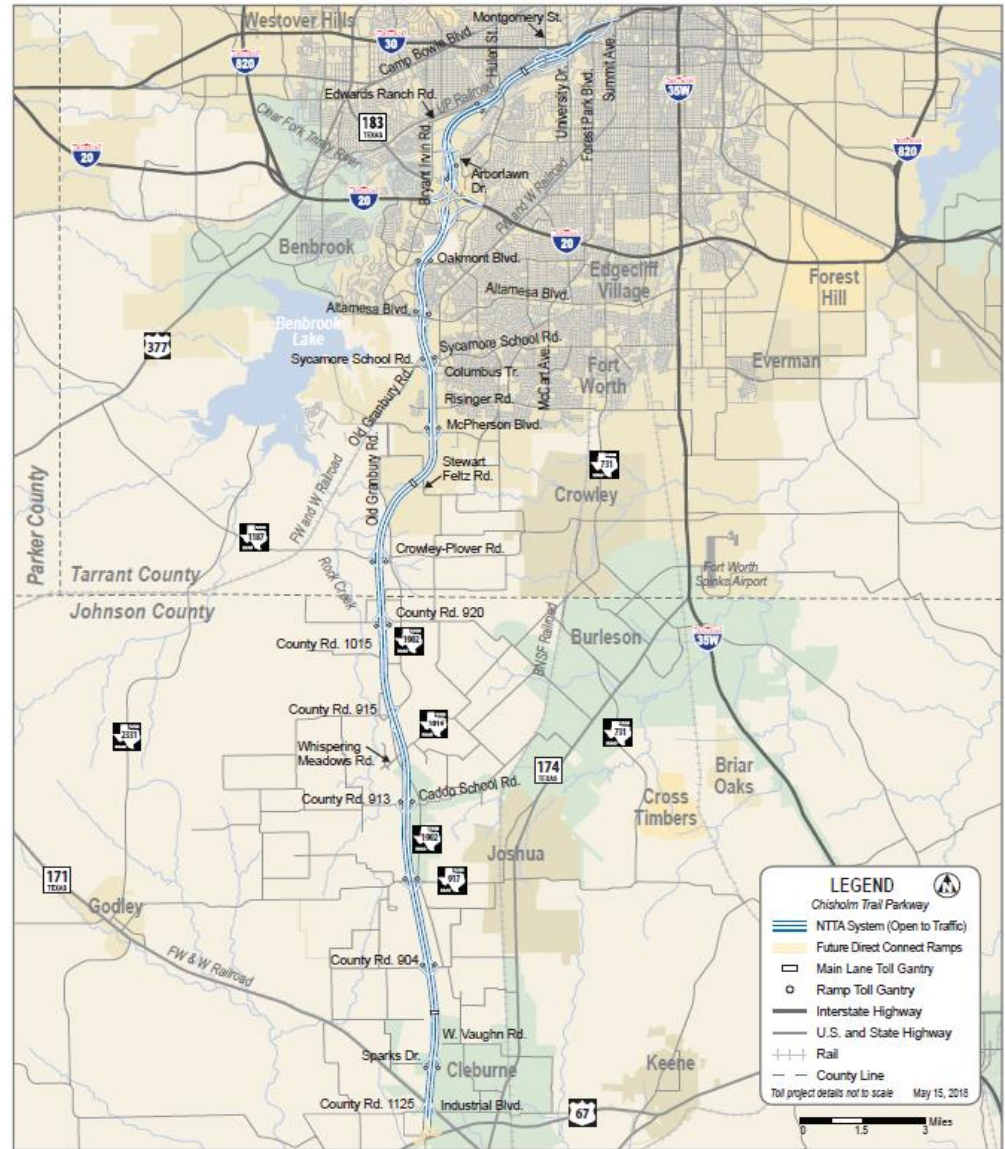
The proposed project would extend approximately 11-miles from I-30 to I-20. The corridor would connect the proposed Loop 9 in Dallas County to the President George Bush Turnpike Eastern Extension. The FY2021-FY2025 Capital Plan contains \$36.5 million for planning, design and right-of-way.



# Capital Improvement Projects (continued)

## CTP SOUTH 2-LANES

This project adds two southbound main lanes from south of FM 1187 to U.S. 67. The FY2021 – FY2025 Capital Plan includes \$22.2 million for planning and design. Total estimated project costs are \$239.4 million.

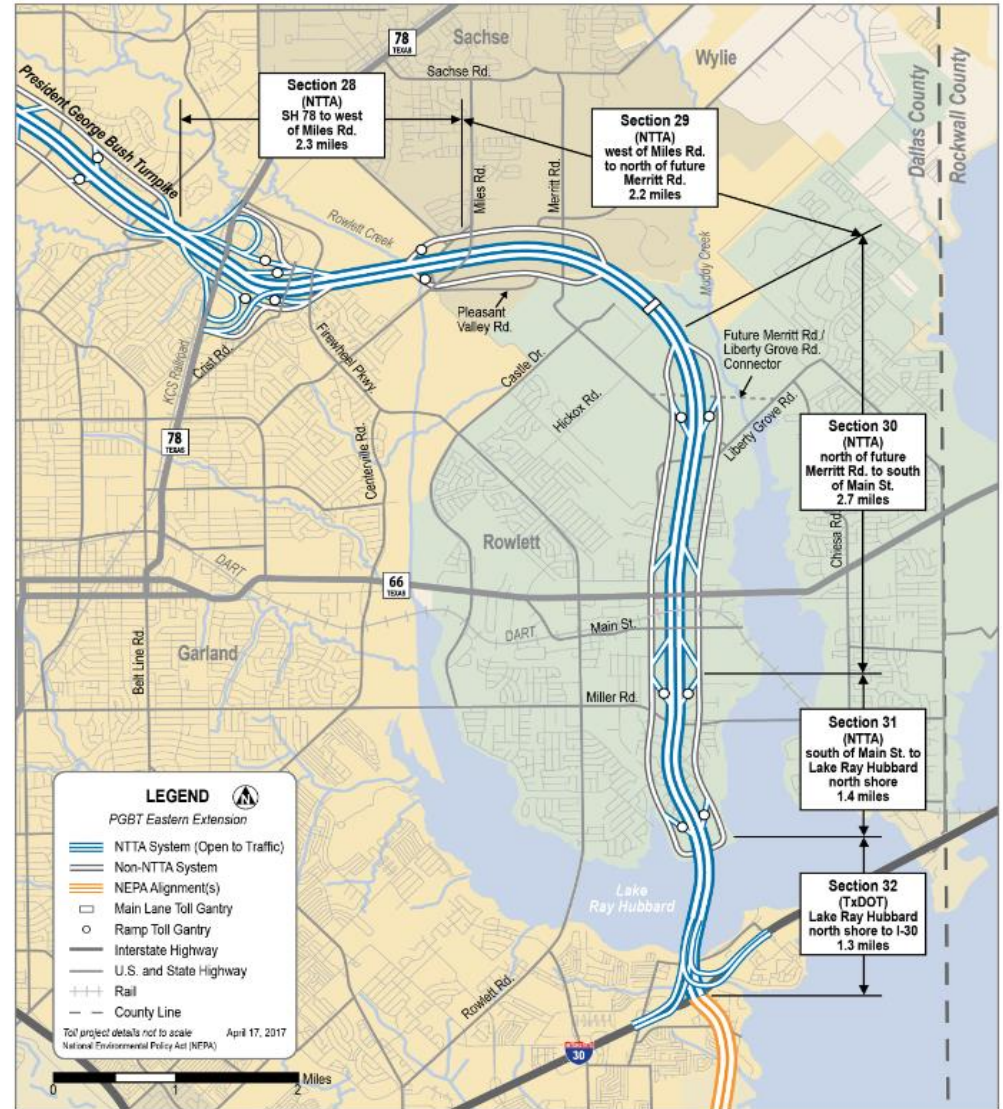




# Capital Improvement Projects (continued)

## PRESIDENT GEORGE BUSH TURNPIKE EASTERN EXTENSION

The Eastern Extension is a portion of the outer loop around Dallas and its suburbs that connects I-30 to the existing PGBT. The project was completed in late FY2012 with only minor cost in FY2021 of \$0.1 million for right-of-way obligations.





# Capital Improvement Projects (continued)

## SAM RAYBURN TOLLWAY FOURTH LANE (WIDENING) PROJECT

The SRT is an approximately 26-mile long tollway. Improvements to the project include constructing an additional lane in each direction, along the entire 26-miles, from west of Denton Tap Road to U.S. 75. Ramp improvements will also be made between the Dallas North Tollway (DNT) and Preston Road. Construction begin in early FY2019; scheduled open to traffic in late FY2021. The FY2021 – FY2025 Capital Plan includes \$36.7 million for this project. The total project costs are estimated at \$191.5 million.



# Capital Improvement Projects (continued)

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## **EQUIPMENT/HARDWARE/SOFTWARE**

As NTTA grows, it is important to upgrade infrastructure to maintain satisfactory services to internal and external customers. This includes upgrading equipment, hardware and software. Some of the major upgrades included in the FY2021 – FY2025 Capital Plan are as follows: network, disaster recovery, enterprise storage, toll collection system replacement, intelligent transportation systems and items related to information security and compliance. The FY2021 – FY2025 Capital Plan includes \$344.5 million for this category.

## **ROADWAYS**

Various improvement projects are planned across the NTTA System including but not limited to repairs, resurfacing, reconstruction and replacements. The FY2021 – FY2025 Capital Plan includes \$165.3 million for this category.

## **RECONSTRUCTION/REPAIR OF RETAINING WALLS**

Several retaining wall projects are being developed to address identified issues. The FY2021 – FY2025 Capital Plan includes \$57.2 million.

## **DNT CAPACITY IMPROVEMENTS STUDY**

General engineering fees are being budgeted to identify possible capacity improvements on DNT. The FY2021 – FY2025 Capital Plan includes \$2.0 million for this project.

## **BUILDINGS**

Buildings are being constructed, modified, improved or expanded as the NTTA System expands. Annual reviews are conducted to identify any required improvements. Over the next five years, the Capital Plan includes \$19.6 million for this category.



### Capital Improvement Fund - (1501) - Project List FY2021 - FY2025 CAPITAL PLAN

Department	Project	Estimated FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	Five Year Total FY2021 - FY2025
Information Technology - (20111)	1000030 - Systemwide Facility Improvements (1)	\$ 100,000	\$ 100,000	\$ 200,000	\$ -	\$ -	\$ -	300,000
Information Technology - (20111)	7000005 - Business Analytics (2)	800,000	560,000	845,000	745,000	320,000	80,000	2,550,000
Information Technology - (20111)	7000006 - PCI Compliance	4,600,000	3,541,000	3,300,000	2,500,000	2,500,000	1,500,000	13,341,000
Information Technology - (20111)	7000008 - Disaster Recovery (3)	6,430,000	4,600,000	5,452,544	5,452,544	5,952,544	5,452,544	26,910,176
Information Technology - (20111)	7000011 - ITS Enhancements to Support TIM (4)	3,375,000	3,375,000	1,350,000	250,000	250,000	200,000	5,425,000
Information Technology - (20111)	7000016 - Data Storage for Images, Databases and Video (5)	3,466,700	0	2,316,000	1,500,000	2,500,000	1,000,000	7,316,000
Information Technology - (20111)	7000017 - EPDS Enhancements (6)	650,000	650,000	0	0	200,000	0	850,000
Information Technology - (20111)	7000018 - Redesign of Internet (7)	300,000	300,000	650,000	350,000	350,000	350,000	2,000,000
Information Technology - (20111)	7000021 - PeopleSoft HR HCM Enhancements (8)	1,000,000	300,000	300,000	300,000	0	0	900,000
Information Technology - (20111)	7000022 - Digital Aerial Photography (9)	65,000	32,000	86,000	86,000	86,000	86,000	376,000
Information Technology - (20111)	7000024 - Toll Collection Sys Software Enhancements/Maint (10)	4,800,000	300,000	0	0	0	0	300,000
Information Technology - (20111)	7000033 - Microsoft Enterprise Agreement (11)	100,000	100,000	3,976,825	4,300,000	4,600,000	4,700,000	17,676,825
Information Technology - (20111)	7000034 - Oracle Unlimited License Agreement	4,522,000	2,586,000	0	0	0	0	2,586,000
Information Technology - (20111)	7000040 - Expand Virtualization (12)	1,450,000	400,000	2,004,913	1,815,110	1,627,714	1,692,823	7,540,560
Information Technology - (20111)	7000042 - Computer Hardware Upgrade (13)	1,800,000	1,800,000	2,800,000	1,000,000	2,000,000	2,000,000	9,600,000
Information Technology - (20111)	7000050 - GIS Enhancement (14)	500,000	500,000	455,000	500,000	480,000	380,000	2,315,000
Information Technology - (20111)	7000051 - Mobile App Enhancements (15)	100,000	200,000	0	0	0	0	200,000
Information Technology - (20111)	7000054 - Service Desk Software Enhancements (16)	500,000	0	275,000	275,000	275,000	275,000	1,100,000
Information Technology - (20111)	7000056 - Toll Collection System Implementation (17)	35,187,334	10,417,992	1,736,332	0	0	0	12,154,324
Information Technology - (20111)	7000058 - Infrastructure Professional Service (18)	900,000	0	0	0	0	0	0
Information Technology - (20111)	7000064 - Board Room Video/Presentation Enhancement (19)	100,000	100,000	100,000	100,000	100,000	100,000	500,000
Information Technology - (20111)	7000067 - DataLogger Auditing Tool for Lane Controllers (20)	260,000	260,000	0	0	0	0	260,000
Information Technology - (20111)	7000068 - National IOP (21)	1,100,000	1,100,000	1,000,000	1,000,000	1,000,000	650,000	4,750,000
Information Technology - (20111)	7000070 - Multi-Channel Communications - CSC (22)	1,000,000	1,000,000	1,700,000	4,400,000	1,000,000	1,000,000	9,100,000
Information Technology - (20111)	7000071 - LoneStar Module Expansion	135,000	300,000	175,000	175,000	175,000	175,000	1,000,000
Information Technology - (20111)	7000081 - eProcurement Project Workflow Tracker (23)	500,000	500,000	0	0	0	0	500,000
Information Technology - (20111)	7000086 - NTTA Employee Portal	0	100,000	100,000	200,000	0	0	400,000
Information Technology - (20111)	7000110 - Enterprise Content Management (24)	1,300,000	300,000	550,000	200,000	200,000	200,000	1,450,000
Information Technology - (20111)	7000112 - Contract Management System (25)	550,000	550,000	120,000	0	0	0	670,000
Information Technology - (20111)	7000113 - Reporting Tool for BDD (26)	420,000	420,000	0	50,000	0	0	470,000
Information Technology - (20111)	7000115 - C*Care Facility Access System (27)	500,000	0	0	500,000	0	0	500,000
Information Technology - (20111)	7000116 - Backup System	0	0	450,000	475,000	475,000	475,000	1,875,000
Information Technology - (20111)	7000117 - Lane System Upgrade (28)	750,000	750,000	5,000,000	25,000,000	25,000,000	25,000,000	80,750,000
Information Technology - (20111)	7000128 - CSC Queue Management and Appointment (29)	300,000	300,000	300,000	150,000	150,000	150,000	1,050,000
Information Technology - (20111)	7000129 - Risk Management Information System (30)	200,000	0	0	0	0	0	0
Information Technology - (20111)	7000130 - Enterprise System Monitoring (31)	600,000	0	600,000	600,000	600,000	600,000	2,400,000
Information Technology - (20111)	7000134 - Back Office System	0	8,200,000	10,670,053	10,760,472	10,852,718	10,946,829	51,430,072
Information Technology - (20111)	7000172 - Infrastructure Managed Services - Data Centers	0	900,000	5,629,876	5,729,876	5,900,000	5,900,000	24,059,752
Information Technology - (20111)	7000173 - Cloud Expansion Project	0	300,000	1,300,000	5,000,000	4,000,000	0	10,600,000
Information Technology - (20111)	7000174 - PeopleSoft Replacement Project	0	0	0	500,000	2,000,000	2,000,000	4,500,000
Information Technology - (20111)	7000175 - Increased Equinix Data Center Applications for Risk Mitigation	0	350,000	1,625,000	400,000	400,000	1,200,000	3,975,000
Information Technology - (20111)	7000176 - CJIS Compliance	0	0	300,000	300,000	400,000	300,000	1,300,000
Information Technology - (20111)	7000177 - New Debt and Cash Management Software	0	0	100,000	200,000	0	0	300,000
Information Technology - (20111)	7000179 - Lockbox Replacement Assessment	0	0	500,000	500,000	0	0	1,000,000
Information Technology - (20111)	7000180 - CSC Print Vendor	0	0	300,000	2,500,000	0	0	2,800,000
Information Technology - (20111)	7000181 - Payment Processor Replacement	0	0	0	500,000	2,000,000	0	2,500,000
Information Technology - (20111)	7000183 - CSC Business Continuity	0	0	1,800,000	475,000	475,000	475,000	3,225,000

Department	Project	Estimated FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	Five Year Total FY2021 - FY2025
Information Technology - (20111)	7000184 - Planned Collection Initiatives	0	400,000	4,600,000	5,400,000	1,600,000	1,400,000	13,400,000
Information Technology - (20111)	7000187 - Semafone	0	200,000	200,000	200,000	200,000	200,000	1,000,000
Information Technology - (20111)	7000188 - Expand Parking Using TollTag	0	0	300,000	300,000	0	0	600,000
Information Technology - (20111)	7000190 - Next Gen Tags	0	300,000	300,000	0	0	0	600,000
Information Technology - (20111)	7001252 - Windows Server Upgrade - New Operating System Versions (32)	600,000	600,000	800,000	800,000	700,000	500,000	3,400,000
Information Technology - (20111)	7001253 - Command Center Radio Upgrade	0	475,000	250,000	0	0	0	725,000
	<b>Information Technology - (20111) Total</b>	<b>78,961,034</b>	<b>47,166,992</b>	<b>64,517,543</b>	<b>85,489,002</b>	<b>78,368,976</b>	<b>68,988,196</b>	<b>344,530,709</b>
Admin Infrastructure - (20221)	1000030 - Systemwide Facility Improvements (33)	5,135,000	2,400,000	4,775,000	3,660,000	5,060,000	3,700,000	19,595,000
	<b>Admin Infrastructure - (20221) Total</b>	<b>5,135,000</b>	<b>2,400,000</b>	<b>4,775,000</b>	<b>3,660,000</b>	<b>5,060,000</b>	<b>3,700,000</b>	<b>19,595,000</b>
Project Delivery - (20511)	1000010 - Median Replacement (34)	12,021,000	6,700,000	0	0	0	0	6,700,000
Project Delivery - (20511)	1000042 - General Engineering	728,000	100,000	100,000	100,000	100,000	100,000	500,000
Project Delivery - (20511)	1000044 - Fence Replacement (35)	50,000	0	0	0	0	0	0
Project Delivery - (20511)	1000045 - Sand Stockpile (36)	225,000	0	50,000	475,000	0	125,000	650,000
Project Delivery - (20511)	2000000 - PGBT EE (37)	1,868,000	103,215	0	0	0	0	103,215
Project Delivery - (20511)	2000002 - PGBT 4th Lane Widening (38)	38,271,718	30,682,864	2,733,000	0	0	0	33,415,864
Project Delivery - (20511)	2000005 - PGBT Continuous Illumination (39)	4,887,465	1,940,834	3,327,144	14,836,175	24,222,378	20,115,863	64,442,394
Project Delivery - (20511)	2100003 - DNT 4th Lane (PGBT to SRT)	428,000	237,831	0	0	0	0	237,831
Project Delivery - (20511)	2100004 - DNT/PGBT IC & Ramp Mods	200,000	170,000	0	0	0	0	170,000
Project Delivery - (20511)	2100007 - DNT PH4A Bridges over U.S. 380 (40)	42,574,794	36,451,301	11,570,000	1,300,000	0	0	49,321,301
Project Delivery - (20511)	2100008 - DNT Phase 4B (Frontage Road) (41)	15,857,910	12,865,284	6,688,007	200,000	0	0	19,753,291
Project Delivery - (20511)	2100010 - DNT PH4B (Segment 6) (42)	1,200,000	0	0	10,000	4,571,368	4,382,748	8,964,116
Project Delivery - (20511)	2100011 - DNT Widening (SRT to U.S. 380) (43)	6,525,174	4,952,846	20,293,313	57,225,341	46,277,342	20,534,837	149,283,679
Project Delivery - (20511)	2100012 - DNT Capacity Improvements Study (44)	1,000,000	0	0	1,000,000	1,000,000	0	2,000,000
Project Delivery - (20511)	2100013 - DNT PH4A (Segment 5) (45)	7,000,000	818,214	17,034,231	11,967,156	40,349,789	89,838,196	160,007,586
Project Delivery - (20511)	2100310 - DNT South End Design Guidelines Implementation (46)	4,709,022	0	0	0	0	1,679,461	1,679,461
Project Delivery - (20511)	2500003 - SRT Widening	72,953,734	33,077,392	1,577,762	2,000,000	0	0	36,655,154
Project Delivery - (20511)	2500004 - SRT Continuous Illumination (47)	400,000	0	1,476,331	1,796,426	11,083,304	14,106,170	28,462,231
Project Delivery - (20511)	3000000 - PGBT East Branch	0	250,000	3,726,079	5,951,555	8,531,997	18,008,735	36,468,366
Project Delivery - (20511)	3900001 - PGBT/360 Tollway Connector (48)	1,000,000	250,000	2,894,849	6,371,350	18,973,052	34,721,387	63,210,638
Project Delivery - (20511)	7000072 - MSE Wall Stabilization and Maintenance Program (49)	25,500,000	9,969,686	5,615,000	3,000,000	16,900,000	21,700,000	57,184,686
Project Delivery - (20511)	7200000 - CTP (50)	860,000	0	0	0	0	0	0
Project Delivery - (20511)	7200001 - CTP South 2-lanes (51)	2,000,000	15,000	3,131,989	7,466,394	6,905,390	4,691,710	22,210,483
	<b>Project Delivery - (20511) Total</b>	<b>240,259,817</b>	<b>138,584,467</b>	<b>80,217,705</b>	<b>113,699,397</b>	<b>178,914,620</b>	<b>230,004,107</b>	<b>741,420,296</b>
Traffic & Incndnt Mgmt. - (20611)	7000000 - Systemwide Roadway Improvements (52)	3,925,000	2,600,000	8,557,000	14,332,500	19,719,500	15,681,000	60,890,000
	<b>Traffic &amp; Incndnt Mgmt. - (20611) Total</b>	<b>3,925,000</b>	<b>2,600,000</b>	<b>8,557,000</b>	<b>14,332,500</b>	<b>19,719,500</b>	<b>15,681,000</b>	<b>60,890,000</b>
<b>Totals</b>		<b>\$328,280,851</b>	<b>\$190,751,459</b>	<b>\$158,067,248</b>	<b>\$217,180,899</b>	<b>\$282,063,096</b>	<b>\$318,373,303</b>	<b>\$1,166,436,005</b>
<b>FY2020 Carryover Projects and Adjustments</b>								
(1)Information Technology - (20111)	1000030 - Systemwide Facility Improvements	(100,000)	0	0	0	0	0	0
(2)Information Technology - (20111)	7000005 - Business Analytics	(743,826)	0	0	0	0	0	0
(3)Information Technology - (20111)	7000008 - Disaster Recovery	(6,430,000)	0	0	0	0	0	0
(4)Information Technology - (20111)	7000011 - ITS Enhancements to Support TIM	(3,375,000)	0	0	0	0	0	0
(5)Information Technology - (20111)	7000016 - Data Storage for Images, Databases and Video	(3,466,700)	0	0	0	0	0	0
(6)Information Technology - (20111)	7000017 - EPDS Enhancements	(650,000)	0	0	0	0	0	0
(7)Information Technology - (20111)	7000018 - Redesign of Internet	(300,000)	0	0	0	0	0	0
(8)Information Technology - (20111)	7000021 - PeopleSoft HR HCM Enhancements	(1,000,000)	0	0	0	0	0	0
(9)Information Technology - (20111)	7000022 - Digital Aerial Photography	(65,000)	0	0	0	0	0	0
(10)Information Technology - (20111)	7000024 - Toll Collection Sys Software Enhancements/Maint	(677,548)	0	0	0	0	0	0
(11)Information Technology - (20111)	7000033 - Microsoft Enterprise Agreement	(100,000)	0	0	0	0	0	0
(12)Information Technology - (20111)	7000040 - Expand Virtualization	(1,109,232)	0	0	0	0	0	0

Department	Project	Estimated FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	Five Year Total FY2021 - FY2025
(13)Information Technology - (20111)	7000042 - Computer Hardware Upgrade	(1,800,000)	0	0	0	0	0	0
(14)Information Technology - (20111)	7000050 - GIS Enhancement	(491,750)	0	0	0	0	0	0
(15)Information Technology - (20111)	7000051 - Mobile App Enhancements (Adjustment)	(100,000)	0	0	0	0	0	0
(16)Information Technology - (20111)	7000054 - Service Desk Software Enhancements	(500,000)	0	0	0	0	0	0
(17)Information Technology - (20111)	7000056 - Toll Collection System Implementation	(10,768,648)	0	0	0	0	0	0
(18)Information Technology - (20111)	7000058 - Infrastructure Professional Service	(900,000)	0	0	0	0	0	0
(19)Information Technology - (20111)	7000064 - Board Room Video/Presentation Enhancement	(99,341)	0	0	0	0	0	0
(20)Information Technology - (20111)	7000067 - DataLogger Auditing Tool for Lane Controllers	(260,000)	0	0	0	0	0	0
(21)Information Technology - (20111)	7000068 - National IOP	(1,100,000)	0	0	0	0	0	0
(22)Information Technology - (20111)	7000070 - Multi-Channel Communications - CSC	(633,130)	0	0	0	0	0	0
(23)Information Technology - (20111)	7000081 - eProcurement Project Workflow Tracker	(500,000)	0	0	0	0	0	0
(24)Information Technology - (20111)	7000110 - Enterprise Content Management	(1,300,000)	0	0	0	0	0	0
(25)Information Technology - (20111)	7000112 - Contract Management System	(550,000)	0	0	0	0	0	0
(26)Information Technology - (20111)	7000113 - Reporting Tool for BDD	(420,000)	0	0	0	0	0	0
(27)Information Technology - (20111)	7000115 - C*Cure Facility Access System	(500,000)	0	0	0	0	0	0
(28)Information Technology - (20111)	7000117 - Lane System Upgrade	(750,000)	0	0	0	0	0	0
(29)Information Technology - (20111)	7000128 - CSC Queue Management and Appointment	(265,134)	0	0	0	0	0	0
(30)Information Technology - (20111)	7000129 - Risk Management Information System	(200,000)	0	0	0	0	0	0
(31)Information Technology - (20111)	7000130 - Enterprise System Monitoring	(581,645)	0	0	0	0	0	0
(32)Information Technology - (20111)	7001252 - Windows Server Upgrade - New Operating System Versions	(600,000)	0	0	0	0	0	0
(33) Admin Infrastructure - (20221)	1000030 - Systemwide Facility Improvements	(3,933,225)	0	0	0	0	0	0
(34)Project Delivery - (20511)	1000010 - DNT Median Replacement	(3,315,822)	0	0	0	0	0	0
(35)Project Delivery - (20511)	1000044 - Fence Replacement	(50,000)	0	0	0	0	0	0
(36)Project Delivery - (20511)	1000045 - Sand Stockpile	(225,000)	0	0	0	0	0	0
(37)Project Delivery - (20511)	2000000 - PGBT EE	(1,590,711)	0	0	0	0	0	0
(38)Project Delivery - (20511)	2000002 - PGBT 4th Lane Widening	(13,649,200)	0	0	0	0	0	0
(39)Project Delivery - (20511)	2000005 - PGBT Continues Illumination	(4,881,299)	0	0	0	0	0	0
(40)Project Delivery - (20511)	2100007 - DNT PH4A Bridges over U.S. 380	(10,426,416)	0	0	0	0	0	0
(41)Project Delivery - (20511)	2100008 - DNT Phase 4B (Frontage Road)	(13,858,505)	0	0	0	0	0	0
(42)Project Delivery - (20511)	2100010 - DNT Phase 4B (Segment 6) Pre 2100008	(1,200,000)	0	0	0	0	0	0
(43)Project Delivery - (20511)	2100011 - DNT Widening (SRT to U.S. 380)	(5,255,632)	0	0	0	0	0	0
(44)Project Delivery - (20511)	2100012 - DNT Capacity Improvements Study	(1,000,000)	0	0	0	0	0	0
(45)Project Delivery - (20511)	2100013 - DNT PH4A (Segment 5)	(5,688,569)	0	0	0	0	0	0
(46)Project Delivery - (20511)	2100310 - DNT South End Design Guidelines Implementation	(4,709,022)	0	0	0	0	0	0
(47)Project Delivery - (20511)	2500004 - SRT Continuous Illumination Study/Construction	(400,000)	0	0	0	0	0	0
(48)Project Delivery - (20511)	3900001 - PGBT/360 Tollway Connector	(1,000,000)	0	0	0	0	0	0
(49)Project Delivery - (20511)	7000072 - MSE Wall Stabilization and Maintenance Program	(6,655,282)	0	0	0	0	0	0
(50)Project Delivery - (20511)	7200000 - CTP	(680,813)	0	0	0	0	0	0
(51)Project Delivery - (20511)	7200001 - CTP South 2-Lanes	(2,000,000)	0	0	0	0	0	0
(52)Traffic & Incndnt Mgmt. - (20611)	7000000 - Systemwide Roadway Improvements (Adjustment)	(3,359,261)	0	0	0	0	0	0
<b>Totals</b>		<b>(\$124,215,711)</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total FY2021 - FY2025 Capital Improvement Project Costs</b>		<b>\$204,065,140</b>	<b>\$190,751,459</b>	<b>\$158,067,248</b>	<b>\$217,180,899</b>	<b>\$282,063,096</b>	<b>\$318,373,303</b>	<b>\$1,166,436,005</b>

Report contains only project costs.



### Project Detail

<b>Project Number:</b>	7000005	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Business Analytics	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Continue to build and scale the Business Analytics program as user adoption and business demands increase:  
 2020 - Post-BOS BI Development, APS EOL Replacement Solution POCs  
 2021 - Post-BOS BI Development, Purchase/Migrate to APS Replacement Platform  
 2022 - Finalize 2021 APS EOL Replacement Migration  
 2023-24 - NextGen BI - AI, Machine Learning, Streaming, and Predictive Analytics

**Justification:** Scaling the BI program enables NTTA to address industry challenges:  
 1. Congestion Management  
 2. Interoperability  
 3. Public Awareness and Acceptance  
 4. Connected/Automated Vehicles  
 5. Managed Lanes  
 6. Road Usage Charge  
 7. NTTA Tolling Application Replacement

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 560,000
2022	845,000
2023	745,000
2024	320,000
2025	80,000
	\$ 2,550,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	310,000
531641	Computers	100,000
531651	Software	150,000
	<b>Total Expenses:</b>	<b>\$ 560,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None



## Project Detail

<b>Project Number:</b>	7000006	<b>Budget Year:</b>	2021
<b>Project Title:</b>	PCI Compliance	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** NTTA is required to have adequate preventive and detective controls in place to satisfy compliance requirements in order to protect technology infrastructure and sensitive data by enhancing information security safeguards against evolving cyber threats. 24x7 Security monitoring and AllClearID post breach services costs are included.

**Justification:** In the interest of enhancing information security capabilities as well as to stay compliant with regulatory requirements, various preventive and detective control measures need to be in place.

**Comments:** N/A

**Project Forecast**  
**Year**

	<b>Total Budget</b>
2021	\$ 3,541,000
2022	3,300,000
2023	2,500,000
2024	2,500,000
2025	1,500,000
	<b>\$ 13,341,000</b>

**Project Details 2021**

<b>Account</b>	<b>Description</b>	<b>Total Amount</b>
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	2,400,000
531641	Computers	800,000
531651	Software	341,000
	<b>Total Expenses:</b>	<b>\$ 3,541,000</b>

**Operating Budget Impact**

<b>Budget Year</b>	<b>Exp (Rev)</b>	<b>FTE Impact</b>
None	None	None

### Project Detail

<b>Project Number:</b>	7000008	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Disaster Recovery	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** Maintain and enhance the remote Disaster Recovery solution for NTTA data center.

**Justification:** Enhancement and the renewal of the existing DR solution to meet growth as well as to explore potential high availability solutions.

**Comments:** N/A

**Project Forecast**  
**Year**

			<b>Total Budget</b>
	2021	\$	4,600,000
	2022		5,452,544
	2023		5,452,544
	2024		5,952,544
	2025		5,452,544
		<b>\$</b>	<b>26,910,176</b>

**Project Details 2021**

<b>Account</b>	<b>Description</b>	<b>Total Amount</b>
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	500,000
531641	Computers	2,100,000
531651	Software	2,000,000
	<b>Total Expenses:</b>	<b>\$ 4,600,000</b>

**Operating Budget Impact**

<b>Budget Year</b>	<b>Exp (Rev)</b>	<b>FTE Impact</b>
None	None	None

### Project Detail

<b>Project Number:</b>	7000011	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Intelligent Transportation Systems enhancements to support Traffic and Incident Management	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** Planning, design, construction and deployment of CCTV cameras, DMS signs and microwave vehicle detection systems placed at high impact locations along NTTA Roadways, and other intelligent transportation system related planned initiatives like Wrong Way Driver enhancements, replacement of Video Management System, enhancements for Lone Star Advanced Traffic Management System features

**Justification:** ITS Retrofit and Enhancements will include CCTV cameras. The specific locations of these cameras will address existing CCTV coverage gaps and will be selected by the Traffic and Incident Management (TIM) department from locations recommended by the ITS group based on identified traffic and incident management requirements. TIM department also has several planned improvements to the ITS system like new video analytics system, new and improved DMS signs, enhancement of advance traffic management system etc. ITS utilizes advanced technologies to improve roadway efficiencies, safety and mobility by monitoring and managing traffic and roadway operations, detecting incidents and managing the response to those incidents. The information collected via roadside technologies is utilized to decrease emergency response time and improve roadway operations.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 3,375,000
2022	1,350,000
2023	250,000
2024	250,000
2025	200,000
	\$ 5,425,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	425,000
541403	Infrastructure - Other	2,950,000
	<b>Total Expenses:</b>	<b>\$ 3,375,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

## Project Detail

<b>Project Number:</b>	7000016	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Data Storage for images, databases and video	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** NTTA systems use considerable storage to store images from the lanes to pursue transactions, databases for all applications, videos from the lanes etc.

**Justification:** Efficient storage and processing of data is essential to our business including pursuing ZipCash transaction, service our customers on our facilities, and running NTTA operations. These funds will be used to keep storage efficient and add storage as needed to support business growth as NTTA expand its facilities and processes transactions for other facilities in the region

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	-
2022	2,316,000
2023	1,500,000
2024	2,500,000
2025	1,000,000
	\$ 7,316,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
<b>Total Expenses:</b>		-

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000017	<b>Budget Year:</b>	2021
<b>Project Title:</b>	EPDS Enhancements	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Continued enhancement, expansion and upgrade of Enterprise Project Delivery System (EPDS) in order to support the contract tracking and payment needs of organization.

**Justification:** Implement enhancements to enterprise project delivery system to add features like docuSign

**Comments:**

**Project Forecast**

Year	Total Budget
2021	\$ 650,000
2022	-
2023	-
2024	200,000
2025	-
	\$ 850,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	500,000
531651	Software	150,000
	<b>Total Expenses:</b>	<b>\$ 650,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

## Project Detail

<b>Project Number:</b>	7000018	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Redesign of Internet	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Redesign of NTTA corporate website (NTTA.org) to make it modern and also integrated with customer portal so that our customers can login from the home page.

**Justification:** It will be important for the look and feel for both websites (Corporate website and customer website) to match and also integrated log in capability for the customer is desired by business.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 300,000
2022	650,000
2023	350,000
2024	350,000
2025	350,000
	\$ 2,000,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	300,000
	<b>Total Expenses:</b>	<b>\$ 300,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None



### Project Detail

<b>Project Number:</b>	7000021	<b>Budget Year:</b>	2021
<b>Project Title:</b>	PeopleSoft HR HCM Enhancement	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** PeopleSoft HR HCM Enhancements - including ACA, new GUI interface in HR. Also Includes Contingent Worker Project and succession planning.

**Justification:** Federal reporting and significant Oracle application releases and any new business functions as requested by HR

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 300,000
2022	300,000
2023	300,000
2024	-
2025	-
	\$ 900,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	300,000
	<b>Total Expenses:</b>	<b>\$ 300,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

## Project Detail

<b>Project Number:</b>	7000022	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Digital Aerial Photography	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** The funds will be used to provide high-resolution, aerial photography of our roadways and assets for Project Delivery and Maintenance vendors requesting imagery for their projects. The GIS team also uses it to update roadway assets.

**Justification:** Currently the images are updated every other year, but due to NTTA system expansion in all corridors, business needs for imagery has expanded to new images every year. Budget has been adjusted to reflect that need.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 32,000
2022	86,000
2023	86,000
2024	86,000
2025	86,000
	\$ 376,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	32,000
	<b>Total Expenses:</b>	\$ 32,000

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000024	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Toll Collection Sys Software Enhancements/Maint	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** RITE System Stand-by Support during new back office system implementation.

**Justification:** Risk mitigation for new back office.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 300,000
2022	-
2023	-
2024	-
2025	-
	\$ 300,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521201	Consulting/Professional	300,000
	<b>Total Expenses:</b>	<b>\$ 300,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000033	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Microsoft Enterprise Agreement	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Annual cost of MicroSoft Enterprise Lic. agreement and the premier support.

**Justification:** NTTA signed a three year enterprise agreement with MicroSoft to use their products. This fund will be utilized to make the annual payments.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 100,000
2022	3,976,825
2023	4,300,000
2024	4,600,000
2025	4,700,000
	\$ 17,676,825

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
531651	Software	100,000
	<b>Total Expenses:</b>	<b>\$ 100,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000034	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Oracle Unlimited License Agreement	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Oracle product annual support and new ULA payments

**Justification:** We have to make payments for Oracle Software ULA and the annual software support.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 2,586,000
2022	-
2023	-
2024	-
2025	-
	\$ 2,586,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
531651	Software	2,586,000
	<b>Total Expenses:</b>	<b>\$ 2,586,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

## Project Detail

<b>Project Number:</b>	7000040	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Expand Virtualization	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Virtual desktops are used by almost all consultants and remote users. This is a way to allow secure access to NTTA environment from non NTTA locations. This fund will allow us to add additional virtual desktops and also virtual servers for any new applications that we add to our data center.

**Justification:** Virtualization has many benefits, including more efficiency. This allows us to utilize hardware to the fullest, easily procure new servers and desktops on the fly and create a more robust and mobile environment. In addition, virtualization aids to replicate systems efficiently thus provides safer way to recover systems during disaster recovery and also reduce our physical foot print so that we don't grow out of our current data center as business needs for processing increases

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 400,000
2022	2,004,913
2023	1,815,110
2024	1,627,714
2025	1,692,823
	\$ 7,540,560

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
531651	Software	400,000
	<b>Total Expenses:</b>	<b>\$ 400,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None



## Project Detail

<b>Project Number:</b>	7000042	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Computer Hardware Upgrade	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** This fund will be used to perform essential upgrades of various hardware in order to enhance capabilities within the data center.

**Justification:** It is critical to stay current with evolving technologies to enhance data center operations.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 1,800,000
2022	2,800,000
2023	1,000,000
2024	2,000,000
2025	2,000,000
	<b>\$ 9,600,000</b>

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
531641	Computers	1,800,000
	<b>Total Expenses:</b>	<b>\$ 1,800,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

**Project Detail**

<b>Project Number:</b>	7000050	<b>Budget Year:</b>	2021
<b>Project Title:</b>	GIS Enhancement	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Continue to build and scale GIS to meet business demands by adding the following technologies:

1. Field Collection
2. Asset Management: Asset Works/GIS Integration
3. Real-time Data for GIS
4. GIS Architecture Expansion
5. GIS Data Management
6. GIS 2.0

**Justification:**

1. Enhanced field data collection of roadway assets above and below ground.
2. Working with AssetWorks to fully integrate GIS & AssetWorks. POC to test City Works asset management functionality against our current Asset Works solution.
3. ESRI software enhancement to add real-time data feeds to our GIS solution, similar to PA Turnpike's accident response solution. (Integrating Waze, Traffic Sensor Data, etc)
4. Moving to an enterprise platform to add more functionality, support more users, and enhance end user experience.
5. POC of Safe Software's data integration platform (FME) for spatial data to better connect systems, transform data, and automate workflows.
6. Next Generation GIS - AI/Alexa & LiDAR/3D Modeling

**Comments:** N/A

**Project Forecast**

<u>Year</u>	<u>Total Budget</u>
2021	\$ 500,000
2022	455,000
2023	500,000
2024	480,000
2025	380,000
	<u>\$ 2,315,000</u>

**Project Details 2021**

<u>Account</u>	<u>Description</u>	<u>Total Amount</u>
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	500,000
	<b>Total Expenses:</b>	<u>\$ 500,000</u>

**Operating Budget Impact**

<u>Budget Year</u>	<u>Exp (Rev)</u>	<u>FTE Impact</u>
None	None	None

## Project Detail

<b>Project Number:</b>	7000051	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Mobile App Enhancements	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Current TollMate app will be replaced by a integrated T-BOS app. This budget allows to add integration with the future vision of the app to allow for traffic and incident alerts

**Justification:** TIM department views the mobile app to extend from customer portal to add functionality that is also oriented towards road usage experience for example traffic and incident alerts, wrong-way driver alerts etc.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 200,000
2022	-
2023	-
2024	-
2025	-
	\$ 200,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
531651	Software	200,000
	<b>Total Expenses:</b>	<b>\$ 200,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000054	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Service Desk Software Enhancements	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Enhancement of Service Desk software provides capabilities to streamline the support for the end users.

**Justification:** A fully functional Service Desk supporting system is essential as the end user technologies requirements are constantly evolving.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	-
2022	275,000
2023	275,000
2024	275,000
2025	275,000
	\$ 1,100,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
<b>Total Expenses:</b>		-

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000056	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Toll Collection System Implementation	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	\$ 77,800,000
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	\$ 70,718,754

**Description:** The funds will be used to design and implement a new tolling system to replace existing back office toll system.

**Justification:** These funds accounts for remaining implementation costs that were originally budgeted and not used in 2020 but will be paid in 2021 as the project schedule moved from 2020 to 2021

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 10,417,992
2022	1,736,332
2023	-
2024	-
2025	-
	\$ 12,154,324

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
531651	Software	10,417,992
	<b>Total Expenses:</b>	\$ 10,417,992

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000064	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Board Room Video/Presentation Enhancement	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** This fund will be used to enhance presentation or visual capabilities within the conference/board conference room.

**Justification:** It is important to upgrade technologies capabilities within the conference/board room areas.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 100,000
2022	100,000
2023	100,000
2024	100,000
2025	100,000
	\$ 500,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
541403	Infrastructure - Other	100,000
	<b>Total Expenses:</b>	<b>\$ 100,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None



## Project Detail

<b>Project Number:</b>	7000067	<b>Budget Year:</b>	2021
<b>Project Title:</b>	DataLogger Auditing tool for lane controllers	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Data Logger auditing tool for lane controllers allows ITS roadway teams to analyze data collected at the lanes to ensure its accuracy. This fund will allow adding data loggers to additional locations.

**Justification:** Data loggers will be installed at all Mainline Gantries. These serve as an auditing tool for Roadway Systems. The data logger ties into our system and uses a video feed showing real-time images of all vehicles traveling through the toll zone.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 260,000
2022	-
2023	-
2024	-
2025	-
	\$ 260,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	35,000
531651	Software	225,000
	<b>Total Expenses:</b>	<b>\$ 260,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

## Project Detail

<b>Project Number:</b>	7000068	<b>Budget Year:</b>	2021
<b>Project Title:</b>	National IOP	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** Funds will be used for developing HUB and NTTA back office to connect to South East, West and North East HUBs as we progress towards National Interoperability.

**Justification:** Allows for enhancements to the Central States HUB and to the back office system to enable to connect with additional HUBs and also testing with other agencies and creating any processes and reporting.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 1,100,000
2022	1,000,000
2023	1,000,000
2024	1,000,000
2025	650,000
	\$ 4,750,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
531651	Software	1,100,000
	<b>Total Expenses:</b>	<b>\$ 1,100,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

**Project Detail**

<b>Project Number:</b>	7000070	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Multi-Channel Communications - CSC	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** Add and enhance Call Center system functionality to meet CSC needs.

- Justification:**
- \* Voice assessment
  - \* Remote Call Centers
  - \* MPLS Communication
  - \* Tokenization
  - \* IVR Script Improvements
  - \* Workforce Management Improvements
  - \* Quality Monitoring Improvements
  - \* Multi-Channel Applications (twitter,facebook,web chat)
  - \* Inbound Channel line increase
  - \* Infrastructure
  - \* Phones/Softphones
  - \* Licensing
  - \* Software Upgrades

**Comments:** N/A

**Project Forecast**

<u>Year</u>	<u>Total Budget</u>
2021	\$ 1,000,000
2022	1,700,000
2023	4,400,000
2024	1,000,000
2025	1,000,000
	<u>\$ 9,100,000</u>

**Project Details 2021**

<u>Account</u>	<u>Description</u>	<u>Total Amount</u>
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	500,000
531641	Computers	250,000
531651	Software	250,000
	<b>Total Expenses:</b>	<u>\$ 1,000,000</u>

**Operating Budget Impact**

<u>Budget Year</u>	<u>Exp (Rev)</u>	<u>FTE Impact</u>
None	None	None

### Project Detail

<b>Project Number:</b>	7000071	<b>Budget Year:</b>	2021
<b>Project Title:</b>	LoneStar Module Expansion	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Lonestar is the advanced traffic amnagement system used by Traffic and Incident management team. These funds will be used to expand features and functionality of the LoneStar Modules to meet the business needs.

**Justification:** Modules include new functionality for Lane Closure and advanced Wrong Way Driver functionality etc. to support the needs for Traffic and Incident management team

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 300,000
2022	175,000
2023	175,000
2024	175,000
2025	175,000
	<b>\$ 1,000,000</b>

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	300,000
	<b>Total Expenses:</b>	<b>\$ 300,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000081	<b>Budget Year:</b>	2021
<b>Project Title:</b>	eProcurement Project Workflow Tracker	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** This project allows for making the PO process efficient and integrated with contract management application.

**Justification:** Requested by procurement department to reduce paperwork and multiple rounds of signatures to make the procurement process efficient.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 500,000
2022	-
2023	-
2024	-
2025	-
	\$ 500,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	500,000
	<b>Total Expenses:</b>	<b>\$ 500,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

**Project Detail**

<b>Project Number:</b>	7000086	<b>Budget Year:</b>	2021
<b>Project Title:</b>	NTTA Employee Portal	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Replace the legacy Intranet site with a new employee portal

**Justification:** Intranet Site is in need of several functional enhancements to allow for better collaboration between NTTA staff and various departments

**Comments:** N/A

**Project Forecast**

<b>Year</b>	<b>Total Budget</b>
2021	\$ 100,000
2022	100,000
2023	200,000
2024	-
2025	-
	<b>\$ 400,000</b>

**Project Details 2021**

<b>Account</b>	<b>Description</b>	<b>Total Amount</b>
<b>Expenses</b>		
531651	Software	100,000
	<b>Total Expenses:</b>	<b>\$ 100,000</b>

**Operating Budget Impact**

<b>Budget Year</b>	<b>Exp (Rev)</b>	<b>FTE Impact</b>
None	None	None



**Project Detail**

<b>Project Number:</b>	7000110	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Enterprise Content Management	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Requests by the organization to deploy an Enterprise Content Management Tool.

**Justification:** Operational efficiency will be realized within numerous departments in NTTA. Requested by various departments in the organization.

**Comments:** N/A

**Project Forecast**

<u>Year</u>	<u>Total Budget</u>
2021	\$ 300,000
2022	550,000
2023	200,000
2024	200,000
2025	200,000
	<u>\$ 1,450,000</u>

**Project Details 2021**

<u>Account</u>	<u>Description</u>	<u>Total Amount</u>
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	300,000
	<b>Total Expenses:</b>	<u>\$ 300,000</u>

**Operating Budget Impact**

<u>Budget Year</u>	<u>Exp (Rev)</u>	<u>FTE Impact</u>
None	None	None

### Project Detail

<b>Project Number:</b>	7000112	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Contract Management System	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Funds will be used to implement a contract management system that replaces the current manual monitoring of contracts by procurement.

**Justification:** Current manual processes are cumbersome and not efficient. New system will automate the contract management workflow and allow for better tracking of all contracts.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 550,000
2022	120,000
2023	-
2024	-
2025	-
	<b>\$ 670,000</b>

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	550,000
	<b>Total Expenses:</b>	<b>\$ 550,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000113	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Reporting Tool for BDD	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Business Diversity Tracking is a replacement of the BD services provided by Early Morning Software.

**Justification:** Complete implementation of the Business Diversity Tracking system that started last year

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 420,000
2022	-
2023	50,000
2024	-
2025	-
	\$ 470,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	270,000
531651	Software	150,000
	<b>Total Expenses:</b>	<b>\$ 420,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000115	<b>Budget Year:</b>	2021
<b>Project Title:</b>	C*Cure Facility Access System	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Upgrade of the technology for Facility Access system

**Justification:** Facility access system managed secure access to all doors for NTTA facilities including walk-in customer service centers. This fund will be used to upgrade the technology

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	-
2022	-
2023	500,000
2024	-
2025	-
	\$ 500,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
<b>Total Expenses:</b>		-

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000116	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Backup System	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** This fund will be used to enhance capabilities for the backup system.

**Justification:** System Backups are critical to system recovery incase of failures. It is critical to stay current with evolving technologies to enhance backup operations and keep them efficient so that they do not impact the system uptime.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ -
2022	450,000
2023	475,000
2024	475,000
2025	475,000
	\$ 1,875,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
<b>Total Expenses:</b>		-

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000117	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Lane System Upgrade	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** This fund will be used to upgrade and replace lane systems at the roadway.

**Justification:** It is critical to stay current with evolving technologies to enhance roadway operations.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 750,000
2022	5,000,000
2023	25,000,000
2024	25,000,000
2025	25,000,000
	\$ 80,750,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	750,000
	<b>Total Expenses:</b>	<b>\$ 750,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000128	<b>Budget Year:</b>	2021
<b>Project Title:</b>	CSC Queue Mgmt and Appointments	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** The contracts for customer appointment and customer queuing at the stores will be re-procured and integrated with both new back office and new corporate website

**Justification:** Contracts are expiring and up for re-procurement

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 300,000
2022	300,000
2023	150,000
2024	150,000
2025	150,000
	\$ 1,050,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
531651	Software	300,000
	<b>Total Expenses:</b>	\$ 300,000

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None



## Project Detail

<b>Project Number:</b>	7000130	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Enterprise Systems Monitoring	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** This will allow us to monitor the availability and performance of systems more efficiently in order to meet the acceptable level of system up-time. This includes all data center computers and networking for Gleneagles, Equinix, and disaster recovery data centers.

**Justification:** This level of monitoring is critical to detect system faults and warnings to send to proper teams to take appropriate actions.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ -
2022	600,000
2023	600,000
2024	600,000
2025	600,000
	\$ 2,400,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
<b>Total Expenses:</b>		-

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000134	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Back Office System	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** The funds will be used for enhancements to the back office toll system

**Justification:** The estimate includes consulting/professional fees, hardware and software costs for BOS enhancements.

**Comments:**

**Project Forecast**

Year	Total Budget
2021	\$ 8,200,000
2022	10,670,053
2023	10,760,472
2024	10,852,718
2025	10,946,829
	\$ 51,430,072

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	2,500,000
531651	Software	5,700,000
	<b>Total Expenses:</b>	<b>\$ 8,200,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

## Project Detail

<b>Project Number:</b>	7000172	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Infrastructure Managed Services - Data Centers	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** IT Infrastructure Managed Services includes the implementation of systems and storage infrastructure along with monitoring of availability, performance, and security.

**Justification:** Stability, performance, and security of systems requires skilled engineers to implement and monitor critical infrastructure environments. At times NTTA procure 3rd party resources to achieve the objectives.

**Comments:**

**Project Forecast**

Year	Total Budget
2021	\$ 900,000
2022	5,629,876
2023	5,729,876
2024	5,900,000
2025	5,900,000
	\$ 24,059,752

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	900,000
	<b>Total Expenses:</b>	<b>\$ 900,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

## Project Detail

<b>Project Number:</b>	7000173	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Cloud Expansion Project	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** The purpose of this initiative is to do a complete data center cloud assessment and feasibility studies for data center hosting on premise and all NTTA applications.

**Justification:** This initiative will provide us valuable information regarding potential cost/other benefits to NTTA by moving data center and applications to the cloud.

**Comments:**

**Project Forecast**

Year	Total Budget
2021	\$ 300,000
2022	1,300,000
2023	5,000,000
2024	4,000,000
2025	-
	\$ 10,600,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	300,000
	<b>Total Expenses:</b>	<b>\$ 300,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000174	<b>Budget Year:</b>	2021
<b>Project Title:</b>	PeopleSoft Replacement Project	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** The purpose of this project is to replace the existing PeopleSoft application with an optimal solution that will satisfy business needs and provides HR and Finance functions with ease.

**Justification:** Explore new opportunities in the Accounting and HR application environments that can meet future NTTA business needs while providing a flexible enterprise solution.

**Comments:**

**Project Forecast**

Year	Total Budget
2021	\$ -
2022	
2023	500,000
2024	2,000,000
2025	2,000,000
	\$ 4,500,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
<b>Total Expenses:</b>		-

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000175	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Increase Equinix Data Center Applications for Risk Mitigation	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** The purpose of this project is to implement site-to-site high availability or load sharing at Equinix datacenter for critical production environments, including storage, and share video with adjoining cities and counties.

**Justification:** While Disaster Recovery is in place, the failed over to DR site can take upto 24 hours. In an situation that has a temporary impact on data center, DR may not be the most optimal strategy, failover will provide a fall back for critical system or power failure at GE data center without any interruptions.

**Comments:**

**Project Forecast**

Year	Total Budget
2021	\$ 350,000
2022	1,625,000
2023	400,000
2024	400,000
2025	1,200,000
	\$ 3,975,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
531641	Computers	350,000
	<b>Total Expenses:</b>	<b>\$ 350,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000176	<b>Budget Year:</b>	2021
<b>Project Title:</b>	CJIS Compliance	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** This funding will be utilized to procure services from CJIS compliant third-party service provider for the CAD environment to satisfy CJIS requirements.

**Justification:** Only CJIS certified staff can administer this environment thus requiring us to seek CJIS compliant providers. This environment must be compliant with CJIS requirements to pass the audit.

**Comments:**

**Project Forecast**

Year	Total Budget
2021	\$ -
2022	300,000
2023	300,000
2024	400,000
2025	300,000
	\$ 1,300,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
<b>Total Expenses:</b>		-

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None



### Project Detail

<b>Project Number:</b>	7000177	<b>Budget Year:</b>	2021
<b>Project Title:</b>	New Debt and Cash Management Software	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** Re-procure Debt and Cash Management solution

**Justification:** Meet departmental needs for improved functionality and reporting of Cash and Debt Management. Initiative to support NTTA objective to remain a financially sound organization. Current software that is being used is outdated and does not have key functionalities.

**Comments:**

**Project Forecast**

Year	Total Budget
2021	\$ -
2022	100,000
2023	200,000
2024	-
2025	-
	\$ 300,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
<b>Total Expenses:</b>		-

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000179	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Lockbox Replacement Assessment	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** Re-procure Lockbox Vendor

**Justification:** Standard procurement process

**Comments:**

**Project Forecast**

Year	Total Budget
2021	\$ -
2022	500,000
2023	500,000
2024	-
2025	-
	\$ 1,000,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
<b>Total Expenses:</b>		-

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000180	<b>Budget Year:</b>	2021
<b>Project Title:</b>	CSC Print Vendor	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** Re-procure Print Vendor

**Justification:** Standard procurement process

**Comments:**

**Project Forecast**

Year	Total Budget
2021	-
2022	300,000
2023	2,500,000
2024	-
2025	-
	\$ 2,800,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
<b>Total Expenses:</b>		-

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000181	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Payment Processor Replacement	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** Re-procure Payment processing Vendor

**Justification:** Standard procurement process

**Comments:**

**Project Forecast**

Year	Total Budget
2021	\$ -
2022	-
2023	500,000
2024	2,000,000
2025	-
	\$ 2,500,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
<b>Total Expenses:</b>		-

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000183	<b>Budget Year:</b>	2021
<b>Project Title:</b>	CSC Business Continuity	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** The purpose of this initiative is to explore business continuity opportunities including end user solutions for CSC.

**Justification:** Current on-perm operations lack adequate business continuity plan which will add more flexibility in providing customer support services.

**Comments:**

**Project Forecast**

Year	Total Budget
2021	-
2022	1,800,000
2023	475,000
2024	475,000
2025	475,000
	\$ 3,225,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
<b>Total Expenses:</b>		-

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000184	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Planned Collection Initiatives	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** New planned collection initiatives to include alternate payment channels, affidavit process, civil lawsuits, ZipCash service providers, credit reporting, parking solutions, etc.

**Justification:** To improve collection results that would meet/exceed current service level agreements.

**Comments:**

**Project Forecast**

Year	Total Budget
2021	\$ 400,000
2022	4,600,000
2023	5,400,000
2024	1,600,000
2025	1,400,000
	\$ 13,400,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	400,000
	<b>Total Expenses:</b>	<b>\$ 400,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

## Project Detail

<b>Project Number:</b>	7000187	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Semafone	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** Semafone solution help protects customer credit card data and reduce systems that are in-scope for with Payment Card Industry (PCI) compliance. It protect credit card number received over the phone call with an agent or entered through the IVR from reaching the NTTA systems.

**Justification:** Semafone solution provides the following benefits:

1. Avoids credit cards flowing through our applications and databases
2. Reduce risk by not storing or having access to credit cards.
3. Reduce the number of in-scope systems for PCI

**Comments:**

**Project Forecast**

Year	Total Budget
2021	\$ 200,000
2022	200,000
2023	200,000
2024	200,000
2025	200,000
	\$ 1,000,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
531651	Software	200,000
	<b>Total Expenses:</b>	<b>\$ 200,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000188	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Expand Parking Using TollTag	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** Expand Parking in the region - event parking, state fair, Rangers, etc. using TollTag.

**Justification:** Initiative to support NTTA objective to be a customer-driven organization.

**Comments:**

**Project Forecast**

Year	Total Budget
2021	-
2022	300,000
2023	300,000
2024	-
2025	-
	\$ 600,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
<b>Total Expenses:</b>		-

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None



### Project Detail

<b>Project Number:</b>	7000190	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Next Gen Tags	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	-

**Description:** Explore options for next generation TollTag

**Justification:** Initiative to support NTTA objective to be a customer-driven organization, to remain a financially sound organization and help deliver transportation solutions.

**Comments:**

**Project Forecast**

Year	Total Budget
2021	\$ 300,000
2022	300,000
2023	-
2024	-
2025	-
	\$ 600,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	300,000
	<b>Total Expenses:</b>	<b>\$ 300,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7001252	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Windows Server Upgrade - New Operating System Versions	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** New computers and operating systems for planned projects.

**Justification:** It is critical to upgrade the computer hardware to achieve the performance and availability associated with the business needs and remain compliant with security.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 600,000
2022	800,000
2023	800,000
2024	700,000
2025	500,000
	\$ 3,400,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
531641	Computers	600,000
	<b>Total Expenses:</b>	<b>\$ 600,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7001253	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Command Center Radio Upgrade	<b>Manager:</b>	Information Technology
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20110-Total Information Technology	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Technology	<b>Prior Years Cost:</b>	

**Description:** Enhance or add to the Radio Communications System used by the Safety Operations Center (SOC)

**Justification:**

- \* Upgrade Cisco Instant Connect Dispatching Software.
- \* Upgrade Motorola Radio Dispatch Consoles
- \* Software maintenance support

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 475,000
2022	250,000
2023	-
2024	-
2025	-
	\$ 725,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521301	Consulting/Profess Serv Tech	75,000
531641	Computers	200,000
531651	Software	200,000
	<b>Total Expenses:</b>	<b>\$ 475,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	1000030	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Facility Improvements	<b>Manager:</b>	Maintenance
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20200-Total Maintenance	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	

**Description:** Building improvements, extensions, enlargements, additions, reconstruction and replacement. Projects include HVAC Replacements and AATT fan replacement.

**Justification:** To maintain NTTA assets at or above the Board-approved level of quality. Projects must be performed at the "right time" to prevent higher cost of repairs at a later time.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 2,400,000
2022	4,775,000
2023	3,660,000
2024	5,060,000
2025	3,700,000
	\$ 19,595,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
541302	Building Improvements	2,400,000
	<b>Total Expenses:</b>	<b>\$ 2,400,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	1000010	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Median Replacement	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	\$ 29,308,168
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	\$ 19,705,571

**Description:** DNT Roadway Improvements. Installation of a new concrete median barrier along the centerline of the DNT from Harvest to the PGBT.

**Justification:** Replace the old and deteriorating concrete median barrier to enhance traffic safety.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 6,700,000
2022	-
2023	-
2024	-
2025	-
	\$ 6,700,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
541401	Infrastructure	6,700,000
	<b>Total Expenses:</b>	<b>\$ 6,700,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

## Project Detail

<b>Project Number:</b>	1000042-CIF	<b>Budget Year:</b>	2021
<b>Project Title:</b>	General Engineering	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	

**Description:** Professional services providing project management oversight for the planning and design of Capital Improvement projects.

**Justification:** To maintain NTTA assets to the Board-approved level of quality and ultimately the safety of NTTA customers.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 100,000
2022	100,000
2023	100,000
2024	100,000
2025	100,000
	\$ 500,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521213	General Engineering	100,000
	<b>Total Expenses:</b>	<b>\$ 100,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	1000045	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Sand Stockpile	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	

**Description:** Construct or improve operational function of the Maintenance operation facilities, sand and salt stockpiles, and storage areas.

**Justification:** To provide or improve emergency response during inclement weather to maintain and enhance traffic safety.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	-
2022	50,000
2023	475,000
2024	-
2025	125,000
	\$ 650,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
<b>Total Expenses:</b>		-

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	2000000	<b>Budget Year:</b>	2021
<b>Project Title:</b>	PGBT EE	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	

**Description:** Limits: SH 78 to IH-30  
Approx. 9.9 miles. Six mainlanes and intermittent 3 lane frontage roads.

**Justification:** Right-of-way transfers with corridor Cities and TxDOT per Project Agreements. GEC bond reporting. Completion of LOMR with the city of Rowlett

**Comments:** N/A

**Project Forecast**  
**Year**

	<b>Total Budget</b>
2021	\$ 103,215
2022	-
2023	-
2024	-
2025	-
	<b>\$ 103,215</b>

**Project Details 2021**

<b>Account</b>	<b>Description</b>	<b>Total Amount</b>
<b>Expenses</b>		
173003	Right of Way	101,215
521213	General Engineering	2,000
	<b>Total Expenses:</b>	<b>\$ 103,215</b>

**Operating Budget Impact**

<b>Budget Year</b>	<b>Exp (Rev)</b>	<b>FTE Impact</b>
None	None	None



### Project Detail

<b>Project Number:</b>	2000002	<b>Budget Year:</b>	2021
<b>Project Title:</b>	PGBT 4th Lane Widening	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	\$ 150,056,102
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	\$ 102,388,173

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**Description:** Limits:  
 Beltline to I-35E - 1 additional lane  
 SH 183 to I -30 - 1 additional lane  
 I-30 to I-20 - 2 additional lanes

**Justification:** Limits:  
 N of Beltline to I-35E - Design 2017-2018: Constr: mid 2019 - 2021  
 I-20 to SH 183: Design 2018 to 2019, Constr: 2019-2022

**Comments:** Estimate Level A: \$76,500,000

Year	Total Budget
2021	\$ 30,682,864
2022	2,733,000
2023	-
2024	-
2025	-
	\$ 33,415,864

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521213	General Engineering	757,864
541401	Infrastructure Rdway/Hwy/Bridg	29,925,000
	<b>Total Expenses:</b>	<b>\$ 30,682,864</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
2021	1,438,000	0.0
2022	3,676,000	0.0

**Project Detail**

<b>Project Number:</b>	2000005	<b>Budget Year:</b>	2021
<b>Project Title:</b>	PGBT Continuous Illumination	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	\$ 85,479,157
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	\$ 42,960

**Description:** Engineering cost to study, design and construct new continuous illumination along PGBT.

**Justification:** Schedule;  
Design: Mid 2021-2022  
Construction: 2023-2026

**Comments:** Estimate level E, \$85,479,157

**Project Forecast**

<b>Year</b>	<b>Total Budget</b>
2021	\$ 1,940,834
2022	3,327,144
2023	14,836,175
2024	24,222,378
2025	20,115,863
	<b>\$ 64,442,394</b>

**Project Details 2021**

<b>Account</b>	<b>Description</b>	<b>Total Amount</b>
<b>Expenses</b>		
521213	General Engineering	1,940,834
	<b>Total Expenses:</b>	<b>\$ 1,940,834</b>

**Operating Budget Impact**

<b>Budget Year</b>	<b>Exp (Rev)</b>	<b>FTE Impact</b>
None	None	None

### Project Detail

<b>Project Number:</b>	2100003	<b>Budget Year:</b>	2021
<b>Project Title:</b>	DNT 4th Lane (PGBT to SRT)	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	\$ 111,193,740
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	\$ 97,728,368

**Description:** Limits: DNT Improvements from Parker to SRT, adds an additional lane in each direction to DNT.

**Justification:** Landscape maintenance thru 2021.

**Comments:** N/A

**Project Forecast**  
**Year**

	<b>Total Budget</b>
2021	\$ 237,831
2022	-
2023	-
2024	-
2025	-
	\$ 237,831

**Project Details 2021**

<b>Account</b>	<b>Description</b>	<b>Total Amount</b>
<b>Expenses</b>		
521213	General Engineering	19,000
541401	Infrastructure	218,831
	<b>Total Expenses:</b>	<b>\$ 237,831</b>

**Operating Budget Impact**

<b>Budget Year</b>	<b>Exp (Rev)</b>	<b>FTE Impact</b>
None	None	None

### Project Detail

<b>Project Number:</b>	2100004	<b>Budget Year:</b>	2021
<b>Project Title:</b>	DNT/PGBT IC & Ramp Mods	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	\$ 99,133,813
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	\$ 77,655,900

**Description:** Limits: DNT/PGBT Interchange  
Reconfigure existing direct connector ramps north of DNT/PGBT interchange.

**Justification:** Landscape Maintenance thru 2021

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 170,000
2022	-
2023	-
2024	-
2025	-
	\$ 170,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
541401	Infrastructure	170,000
	<b>Total Expenses:</b>	<b>\$ 170,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	2100007	<b>Budget Year:</b>	2021
<b>Project Title:</b>	DNT PH4A Bridges over U.S. 380	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	\$ 90,282,242
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	\$ 40,761,072

**Description:** Limits: DNT overpass at US 380 with ramps from DNT to Northbound and Southbound service roads. Add toll gantries to the existing (closed) ramps to/from Panther Creek Parkway.

**Justification:** Needed to alleviate congestion at DNT/US 380 intersection.  
 Schedule:  
 Design: 2018-2019  
 Construction: 2019-2023  
 OTT: 2023

**Comments:** Estimate Level A, \$90,282,242

**Project Forecast**

Year	Total Budget
2021	\$ 36,451,301
2022	11,570,000
2023	1,300,000
2024	-
2025	-
	<b>\$ 49,321,301</b>

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521213	General Engineering	906,301
541401	Infrastructure	35,545,000
	<b>Total Expenses:</b>	<b>\$ 36,451,301</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

**Project Detail**

<b>Project Number:</b>	2100008	<b>Budget Year:</b>	2021
<b>Project Title:</b>	DNT Phase 4B (Frontage Road)	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	Denton County
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	\$ 26,849,335
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	\$ 5,584,419

**Description:** Approx. 8 miles: 2 lane frontage road from FM 428 to N. of Denton County Line.

**Justification:** Design and Construction of DNT Phase 4B frontage road in Denton and Collin Counties. Costs are reimbursed by Denton County.  
 Schedule:  
 Design: 2016-2019  
 Construction: 2020-2022  
 OTT: 2022

**Comments:** Estimate level A, \$26,849,355

**Project Forecast**

<b>Year</b>	<b>Total Budget</b>
2021	\$ 12,865,284
2022	6,688,007
2023	200,000
2024	-
2025	-
	<b>\$ 19,753,291</b>

**Project Details 2021**

<b>Account</b>	<b>Description</b>	<b>Total Amount</b>
<b>Expenses</b>		
521213	General Engineering	172,539
541401	Infrastructure	12,692,745
	<b>Total Expenses:</b>	<b>\$ 12,865,284</b>

**Operating Budget Impact**

<b>Budget Year</b>	<b>Exp (Rev)</b>	<b>FTE Impact</b>
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### Project Detail

<b>Project Number:</b>	2100010	<b>Budget Year:</b>	2021
<b>Project Title:</b>	DNT 4B (Segment 6)	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	\$ 499,511,844
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	

**Description:** Limits: FM 428 to Grayson County. Approximately 8 miles

**Justification:** Build mainlanes.  
 Schedule:  
 Planning: 2024-2025

**Comments:** Estimate Level E, \$499,511,844

**Project Forecast**

Year	Total Budget
2021	-
2022	-
2023	10,000
2024	4,571,368
2025	4,382,748
	\$ 8,964,116

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
<b>Total Expenses:</b>		-

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	2100011	<b>Budget Year:</b>	2021
<b>Project Title:</b>	DNT Widening (SRT to U.S. 380)	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	\$ 157,329,639
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	\$ 2,574,628

**Description:** Limits: SRT to US 380. Adds an additional lane in each direction to DNT

**Justification:** Schedule:  
 Environmental & Schematic- 2019-2021  
 Design- 2021-2022  
 Construction- 2022-2025  
 OTT- 2025

**Comments:** Estimate Level E, \$157,329,639

**Project Forecast**

Year	Total Budget
2021	\$ 4,952,846
2022	20,293,313
2023	57,225,341
2024	46,277,342
2025	20,534,837
	\$ 149,283,679

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521213	General Engineering	4,952,846
	<b>Total Expenses:</b>	\$ 4,952,846

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None



### Project Detail

<b>Project Number:</b>	2100012	<b>Budget Year:</b>	2021
<b>Project Title:</b>	DNT Capacity Improvements Study	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	-
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	-

**Description:** General engineering cost to study possible capacity improvements for the DNT from I-35E to Grayson County.

**Justification:** Study for safety, capacity and other operational enhancements.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	-
2022	-
2023	1,000,000
2024	1,000,000
2025	-
	\$ 2,000,000

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
<b>Total Expenses:</b>		-

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	2100013	<b>Budget Year:</b>	2021
<b>Project Title:</b>	DNT PH4A	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	\$ 349,316,639
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	\$ 1,675,756

**Description:** Limits: DNT from north of U.S. 380 to south of FM 428. Approximately 6 miles of mainlanes.

**Justification:** Build northbound and southbound mainlanes.  
 Schedule:  
 Planning: 2020-2021  
 Design: 2022-2024  
 Construction: 2024-2027

**Comments:** Estimate Level E, \$349,316,639

**Project Forecast**

Year	Total Budget
2021	\$ 818,214
2022	17,034,231
2023	11,967,156
2024	40,349,789
2025	89,838,196
	\$ 160,007,586

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521213	General Engineering	818,214
	<b>Total Expenses:</b>	\$ 818,214

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	2100310	<b>Budget Year:</b>	2021
<b>Project Title:</b>	DNT South End Design Guidelines Implementation	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	-
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	-

**Description:** Limits: North of I-35E to south of I-635.  
Includes replacement of illumination, installation of bridge & ROW fencing, slope stabilization, landscape & irrigation improvements.

**Justification:** This project will start after the completion of the DNT Corridor Capacity study.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	-
2022	-
2023	-
2024	-
2025	1,679,461
	\$ 1,679,461

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		-
<b>Total Expenses:</b>		-

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	2500003	<b>Budget Year:</b>	2021
<b>Project Title:</b>	SRT Widening	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	\$ 191,526,343
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	\$ 145,894,615

**Description:** Limits: Denton Tap Rd to US 75; adds an additional lane in each direction to SRT.

**Justification:** Schedule:  
 Design: 2017-2018  
 Construction: 2019-2021  
 Landscape maintenance thru 2023  
 OTT: 2021

**Comments:** Estimate Level A, \$191,526,343

**Project Forecast**

Year	Total Budget
2021	\$ 33,077,392
2022	1,577,762
2023	2,000,000
2024	-
2025	-
	\$ 36,655,154

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521213	General Engineering	729,234
541401	Infrastructure	32,348,158
	<b>Total Expenses:</b>	<b>\$ 33,077,392</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
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### Project Detail

<b>Project Number:</b>	2500004	<b>Budget Year:</b>	2021
<b>Project Title:</b>	SRT Continuous Illumination	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	\$ 41,956,834
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	-

**Description:** Engineering cost to study, design and construct continuous illumination along the Sam Rayburn Tollway

**Justification:** Schedule:  
 Design: Late 2022-2023  
 Construction: 2024-2026

**Comments:** Estimate Level E, \$41,956,834

**Project Forecast**

Year	Total Budget
2021	-
2022	1,476,331
2023	1,796,426
2024	11,083,304
2025	14,106,170
	\$ 28,462,231

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		-
<b>Total Expenses:</b>		-

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	3000000	<b>Budget Year:</b>	2021
<b>Project Title:</b>	PGBT East Branch	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	\$ 1,249,305,659
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	

**Description:** Limits: I-30 to I-20 Approximately 11.2 miles

**Justification:** Schedule: Planning thru 2024  
Design & ROW: Starting 2025

**Comments:** Estimate Level E, \$1,249,305,659

**Project Forecast**

Year	Total Budget
2021	\$ 250,000
2022	3,726,079
2023	5,951,555
2024	8,531,997
2025	18,008,735
	\$ 36,468,366

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521213	General Engineering	250,000
	<b>Total Expenses:</b>	<b>\$ 250,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	3900001	<b>Budget Year:</b>	2021
<b>Project Title:</b>	PGBT/360 Tollway Connector	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	\$ 363,347,052
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	-

**Description:** Limits: Direct connector from PGBT to 360 Tollway along I-20

**Justification:** Provide direct access from PGBT to 360 Tollway.  
 Schedule: Planning thru 2024  
 Design: Starting in 2024

**Comments:** Estimate level E, \$363,347,052

**Project Forecast**

Year	Total Budget
2021	\$ 250,000
2022	2,894,849
2023	6,371,350
2024	18,973,052
2025	34,721,387
	\$ 63,210,638

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521213	General Engineering	250,000
	<b>Total Expenses:</b>	<b>\$ 250,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000072	<b>Budget Year:</b>	2021
<b>Project Title:</b>	MSE Wall Program	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	-
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	\$ 46,509,586

**Description:** Retaining wall rehabilitation

**Justification:**

**Comments:**

**Project Forecast**

Year	Total Budget
2021	\$ 9,969,686
2022	5,615,000
2023	3,000,000
2024	16,900,000
2025	21,700,000
	\$ 57,184,686

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
541401	Infrastructure	9,969,686
	<b>Total Expenses:</b>	<b>\$ 9,969,686</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None



### Project Detail

<b>Project Number:</b>	7200001	<b>Budget Year:</b>	2021
<b>Project Title:</b>	CTP South 2-lanes	<b>Manager:</b>	Project Delivery
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20510-Total Project Delivery	<b>Total Project Cost:</b>	\$ 239,405,563
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	

**Description:** Limits: Southbound main-lanes from FM 1187 to U.S. 67.

**Justification:** Build 2 southbound main-lanes.  
 Schedule:  
 Planning: 2022-2023  
 Design: 2023-2025

**Comments:** Estimate Level E, \$239,405,563

**Project Forecast**

Year	Total Budget
2021	\$ 15,000
2022	3,131,989
2023	7,466,394
2024	6,905,390
2025	4,691,710
	\$ 22,210,483

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
521213	General Engineering	15,000
	<b>Total Expenses:</b>	<b>\$ 15,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

### Project Detail

<b>Project Number:</b>	7000000	<b>Budget Year:</b>	2021
<b>Project Title:</b>	Systemwide Safety Improvements	<b>Manager:</b>	Traffic & Incident Management
<b>Fund:</b>	CIF Project	<b>Project Partner:</b>	N/A
<b>Department:</b>	NTTA-20610-Total Traffic and Incident Management	<b>Total Project Cost:</b>	Annual Budget
<b>Project Type:</b>	Facilities/Roadway	<b>Prior Years Cost:</b>	

**Description:** Systemwide Safety Improvements are small projects, technology upgrades including upgrade of ATMs, tools, and equipment to improve the traffic flow and/or safety.

**Justification:** This budget provides funding to perform localized safety improvements and increased traffic flow.

**Comments:** N/A

**Project Forecast**

Year	Total Budget
2021	\$ 2,600,000
2022	8,557,000
2023	14,332,500
2024	19,719,500
2025	15,681,000
	<b>\$ 60,890,000</b>

**Project Details 2021**

Account	Description	Total Amount
<b>Expenses</b>		
541401	Infrastructure	2,600,000
	<b>Total Expenses:</b>	<b>\$ 2,600,000</b>

**Operating Budget Impact**

Budget Year	Exp (Rev)	FTE Impact
None	None	None

# APPENDICES



## **PRESIDENT GEORGE BUSH TURNPIKE**

WIDENING PROJECT (I-35E to Belt Line Rd.)

Concrete removal at the Sandy Lake Rd. Main Lane Toll Gantry

## Appendix A - Index of Detail Pages

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C*Care Facility Access System	86	New Debt and Cash Management Software	97
Chisholm Trail Parkway South 2-Lanes	129	Next Gen Tags	105
CJIS Compliance	96	NTTA Employee Portal	82
Cloud Expansion Project	93	Oracle Unlimited License Agreement	69
Command Center Radio Upgrade	107	Pavement Repair and Rehab	37
Computer Hardware CIF Upgrades & Replacements	71	Payment Processor Replacement	100
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Enterprise Project Delivery System (EPDS) Enhancements	63	Software & Licensing	31
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Median Replacement	109	Windows Server Upgrade - New Operating System Versions	106
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# Appendix B – Capital Plan Process

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## INTRODUCTION

The North Texas Tollway Authority's policy for the adoption of the Operating Budget (budget of current expenses, annual budget or Operation and Maintenance Fund) and payments into the Reserve Maintenance Fund for the subsequent fiscal year is outlined by the Amended and Restated Trust Agreement with Supplements.

In conjunction with development of the Operating Budget, staff prepares estimates of expenditures for the Reserve Maintenance Fund, Capital Improvement Fund, Construction Fund and Feasibility Study Fund, which is approved by the NTTA Board of Directors with a resolution.

## CAPITAL PLAN PROCESS

Capital plan projects are classified into four categories: Reserve Maintenance Projects, Capital Improvement Projects, NTTA System Construction Projects and Feasibility Study Projects (see Project Type and Funding Source, page 17). Each year, individual departments use the a budget module to complete project forms for new projects or update the previous year projects for revised estimates and/or extend the year(s).

The requests are further classified by project type, purpose and priority. These classifications assist in the decision making process. The Treasury Management department creates project lists and summary reports for the four project categories. In addition, they update the long term financial plan schedules. The forms, lists, reports, and schedules are compiled to create the Five-Year Capital Plan Project Book, which is delivered to the executive management team for review and approval.

Any changes from the review and approval process are incorporated into the reports, and the Five-Year Capital Plan book is created. The Capital Plan is presented to the NTTA Board of Directors' Finance, Audit, and Administration Committee for review and recommendation. Upon the Committees' recommendation, the Capital Plan is presented to the full Board of Directors for adoption.

## CASH BALANCES

The Trust Agreement requires that some funds maintain cash balances. These cash balances contain both cash on deposit and investments held in the fund as follows:

Operation and Maintenance Fund is required to maintain a cash balance equal to one-sixth (1/6) of the total operating budget amount for the current fiscal year, plus all prior accruals for insurance and other periodic or regularly recurring expenses.

## **Appendix B – Capital Plan Process (continued)**

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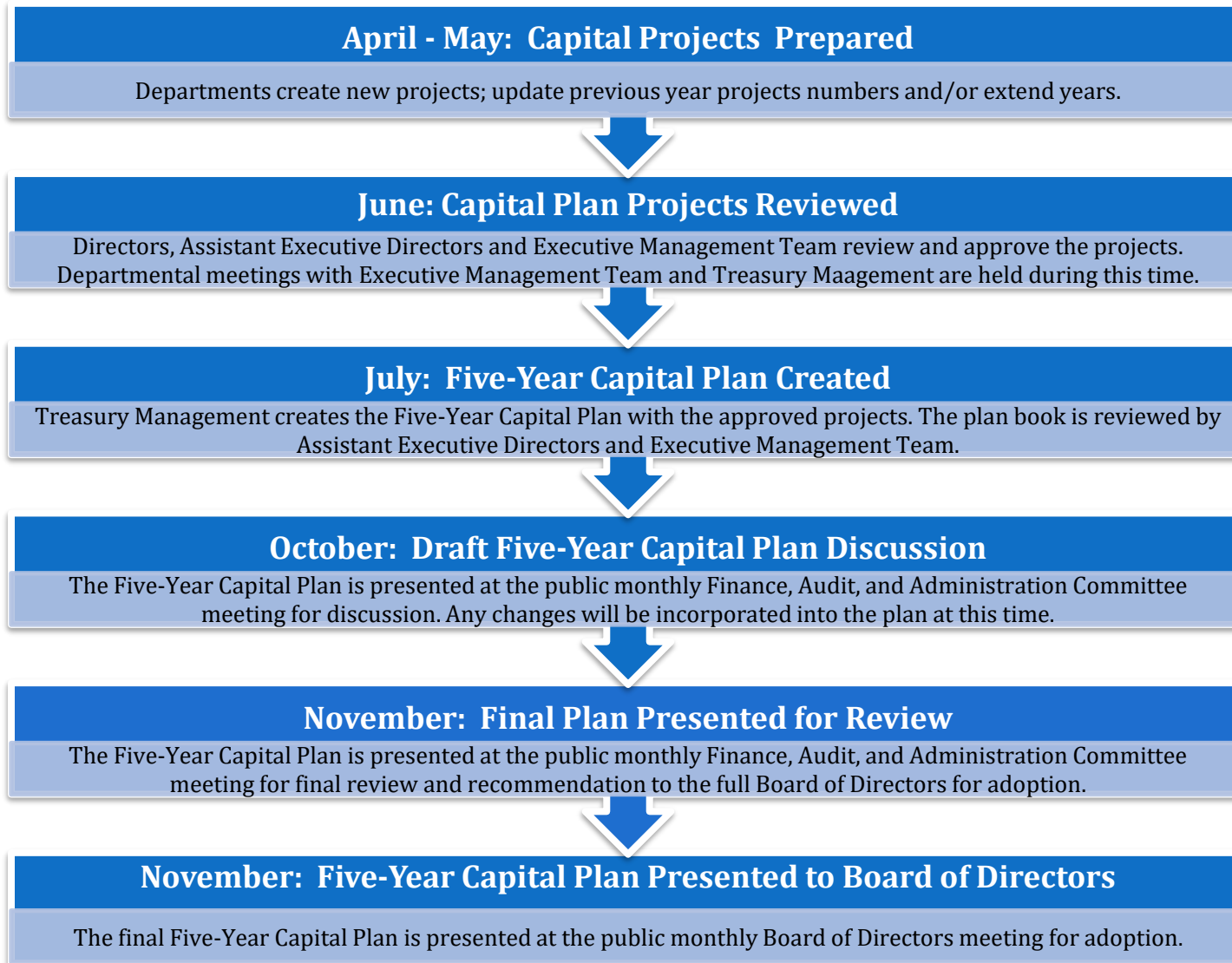
Reserve Maintenance Fund is required to maintain a reserve balance of \$5.0 million.

Management determined it was prudent to retain funds within the Capital Improvement Fund as insurance against unanticipated needs. During FY2010, the Authority's Board of Directors approved a Rainy Day Fund in the amount of \$50.0 million as the reserve in the Capital Improvement Fund. In FY2018 an additional transfer of \$25.0 million was done to bring the reserve to a total of \$75.0 million. Use of this reserve requires specific action by the NTTA Board of Directors and is for unanticipated needs or to ensure that subordinate CIF debt payments are made.

# Appendix B – Capital Plan Process

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## CAPITAL PLAN PROCESS FLOW





## Appendix C - FY2021 Capital Plan Budget Calendar

Date	Event
January 22, 2021 (Friday)	Board Discussion - Five-Year Capital Plan Priorities
February 1 - February 26, 2021	Incorporate any updates to Five-Year Capital Plan
March 1 - March 12, 2021	Capital Plan books assembled by Treasury Management
Week of March 15, 2021	Capital Plan book Review by Executive Management Team completed
March 26, 2021 (Friday)	Five-Year Capital Plan book delivered to Board Members
April 1, 2021 (Thursday)	Finance, Audit, and Administration Committee Five-Year Capital Plan 1st Review
April 1 - April 30, 2021	Incorporate any updates to Capital Plan
May 6, 2021 (Thursday)	Finance, Audit, and Administration Committee Five-Year Capital Plan 2nd Review
May 19, 2021 (Wednesday)	Board Meeting Five-Year Capital Plan Approval
Assumes Thursday Committee Meetings and Wednesday Board Meetings Board events highlighted in blue	

## Appendix D – Major Revenue Source

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Toll revenue collected on the NTTA System is the Authority's major source of revenue. It accounts for an estimated \$776.1 million or 77.9% of the total estimated revenue in the FY2021 Operating Budget.

### TOLL REVENUE

Chapter 366 of the Texas Transportation Code authorizes the NTTA to fix, revise, charge and collect tolls for the use of the NTTA System and provides that such tolls will be so fixed and adjusted as to provide funds sufficient with other revenues, if any, to pay the cost of maintaining, repairing and operating the NTTA System and the principal of and the interest on bonds issued in connection with the NTTA System as the same become due and payable, and to create reserves for such purposes. The Authority Act states that such tolls will not be subject to supervision or regulation by any agency of the State or any local governmental entity.

The Authority has adopted a toll rate schedule for the NTTA System in substantial conformity with the recommendations of NTTA's traffic and revenue engineers. The Authority covenants in the Trust Agreement that it will keep in effect a toll rate schedule that will raise and produce net revenues (total revenue less operating expenses) sufficient to satisfy its debt service requirements.

The Authority's traffic and toll revenue estimates are provided by independent traffic and revenue engineers, currently CDM Smith. CDM Smith conducted a toll sensitivity analysis of the NTTA System that shows the current and planned toll charges on the NTTA System are below the theoretical revenue maximization points. This demonstrates the potential, if needed, for revenue enhancement through toll increases above those assumed for forecasting purposes.

## Appendix D – Major Revenue Source

The schedule below shows CDM Smith’s annual toll revenue estimates for the NTTA System for the next five years. Annual toll revenue growth is expected to average 8.1% per year between FY2021 and FY2025.

Roadway	Estimated NTTA System Annual Toll Revenue				
	FY2021	FY2022	FY2023	FY2024	FY2025
DNT	\$ 239,671,100	\$ 270,417,600	\$ 294,829,100	\$ 312,107,000	\$ 326,400,300
PGBT	242,660,000	279,997,000	308,114,300	328,697,000	345,278,400
AATT	1,053,100	1,236,900	1,379,600	1,502,900	1,567,600
MCLB	1,322,800	1,513,800	1,650,800	1,779,500	1,853,200
LLTB	8,678,100	9,475,900	10,185,200	10,824,500	11,324,500
SRT	175,762,600	199,812,300	216,525,100	228,714,500	239,883,600
PGBT WE	53,139,200	63,461,100	72,742,900	81,213,900	86,594,700
CTP	53,813,500	60,651,500	66,174,400	70,712,800	75,298,400
<b>System Totals</b>	<b>\$ 776,100,400</b>	<b>\$ 886,566,100</b>	<b>\$ 971,601,400</b>	<b>\$ 1,035,552,100</b>	<b>\$ 1,088,200,700</b>

### REVENUE DISTRIBUTION

The Authority covenants that all gross revenues (all tolls, other revenue, and income) arising or derived by the Authority from the operation and ownership of the Tollway (excepting investment income from all funds and accounts other than the Revenue Fund) will be collected by the Authority and deposited daily, as far as practicable, with the Trustee for the credit of the Revenue Fund. Notwithstanding the foregoing, tolls collected on behalf of TxDOT pursuant to a project agreement that provides for revenue sharing with TxDOT are required to be collected by the Authority and to be held and transferred to or upon the order of TxDOT as set forth in such project agreement. The Trustee is required to disburse amounts which are required to be on deposit in the various funds and accounts described below from the Revenue Fund on the required dates.

Under the Trust Agreement, the tolls and other revenues of the NTTA System on deposit in the Revenue Fund are applied in the following manner with each deposit being made as specified below in the sequence noted:

- 1) *First*, on or before the first day of each month, funds are deposited to the Operation and Maintenance Fund in an amount sufficient to make the balance of the Operation and Maintenance Fund equal to one-sixth (1/6) of the amount of the total Current Expenses in the current Annual Budget, plus all prior accruals for insurance and other periodic or regularly scheduled recurring expenses.

## Appendix D – Major Revenue Source

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- 2) Second, on or before the last Business Day preceding each interest payment date or principal (or sinking fund redemption) payment date for the First Tier Bonds (including First Tier Payment Obligations) or such other day as set forth in a Supplemental Agreement, funds are deposited to the applicable account in the First Tier Sinking Fund (or to a fund or account created to pay or repay amounts owed under a Credit Agreement entered into in connection with a series of First Tier Bonds in lieu of either of the foregoing) in the amounts due on any First Tier Bond (including First Tier Payment Obligations).
- 3) Third, on or before the first day of each month, funds are deposited to the credit of the First Tier Reserve Account (1) in the amount, if any, required to restore any deficiency in the First Tier Reserve Account due to a withdrawal or change in value of Authorized Investments in order to make the amount on deposit in the First Tier Debt Reserve Account equal to the First Tier Reserve Requirement, which restoration is intended to occur within 12 months of the occurrence of any such deficiency in 12 substantially equal monthly installments, and (2) in the amount set forth in a Supplemental Agreement if an amount different from the First Tier Reserve Requirement is required.
- 4) Fourth, on or before the last Business Day preceding each interest payment date or principal (or sinking fund redemption) payment date for the Second Tier Bonds (including Second Tier Payment Obligations) or such other day as set forth in a Supplemental Agreement, funds are deposited to the applicable account in the Second Tier Sinking Fund (or to a fund or account created to pay or repay amounts owed under a Credit Agreement entered into in connection with a series of Second Tier Bonds in lieu of either of the foregoing) in the amounts due on any Second Tier Bond (including Second Tier Payment Obligations).
- 5) Fifth, on or before the first day of each month, funds are deposited to the credit of the Second Tier Reserve Account or subaccount therein, if one is provided for in a Supplemental Agreement, in the amounts set forth in the Supplemental Agreement establishing the Second Tier Reserve Requirement or authorizing Additional Second Tier Bonds.
- 6) Sixth, on or before the last Business Day preceding each interest payment date or principal (or sinking fund redemption) payment date for the Third Tier Bonds (including Third Tier Payment Obligations) or such other day as set forth in a Supplemental Agreement, funds are deposited to the applicable account in the Third Tier Sinking Fund (or to a fund or account created to pay or repay amounts owed under a Credit Agreement entered into in connection with a series of Third Tier Bonds in lieu of either of the foregoing) in the amounts due on any Third Tier Bond (including Third Tier Payment Obligations).
- 7) Seventh, on or before the first day of each month, funds are deposited to the credit of the Third Tier Reserve Account or subaccount therein, if one is provided for in a Supplemental Agreement, in the amounts set forth in the Supplemental Agreement establishing the Third Tier Reserve Requirement or authorizing Additional Third Tier Bonds.

## Appendix D – Major Revenue Source

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- 8) Eighth, on or before the first day of each month, funds are required to be deposited in the Reserve Maintenance Fund in an amount equal to one-twelfth of the amount necessary in such fiscal year to accumulate in the Reserve Maintenance Fund an amount equal to the greater of (1) \$5 million, and (2) the amount as may be required in the then current Annual Budget to be deposited to the credit of the Reserve Maintenance Fund during the then current fiscal year; provided, however, that if the amount so deposited to the credit of the Reserve Maintenance Fund in any fiscal year is less than the budgeted amount, the requirement therefore will nevertheless be cumulative and the amount of any deficiency in any fiscal year is required to be added to the amount otherwise required to be deposited in each fiscal year thereafter until such time as such deficiency has been made up, unless such budget requirement has been modified by the Authority.
- 9) Ninth, at the end of each fiscal year any remaining funds on deposit in the Revenue Fund may be transferred to the Capital Improvement Fund.

## Appendix E - Outstanding Debt Service

	A	B	C	D	E	F
FY Ending 12/31	First Tier Net Debt Service	Second Tier Net Debt Service	Commercial Paper Revolving Note Debt Service	ISTEA Loan Debt Service	Subordinated Lien Bonds Debt Service	Total Net Debt Service
2021	362,360,177	134,698,163	15,567,830	15,322,396	3,962,140	531,910,706
2022	415,216,828	184,864,463	15,571,566	15,322,396	8,632,627	639,607,880
2023	447,362,328	194,804,813	17,397,606	15,322,396	8,631,332	683,518,474
2024	447,664,246	204,387,063	17,399,552	15,322,396	8,636,443	693,409,699
2025	478,465,660	173,585,063	17,399,202	15,322,396	8,641,552	693,413,873
2026	484,217,958	167,828,313	17,396,307	15,322,396	8,640,533	693,405,507
2027	487,538,426	164,509,063	17,400,617	15,322,396	8,642,541	693,413,043
2028	499,725,406	152,325,563	17,401,533	15,322,396	8,646,166	693,421,063
2029	474,728,683	208,475,313	17,398,954	-	-	700,602,949
2030	410,836,020	272,372,919	17,397,630	-	-	700,606,570
2031	406,989,095	276,220,063	17,397,062	-	-	700,606,220
2032	449,549,815	233,664,313	17,397,049	-	-	700,611,177
2033	464,606,349	218,604,813	17,402,092	-	-	700,613,253
2034	528,313,793	154,904,613	17,401,591	-	-	700,619,997
2035	551,935,452	131,285,563	17,400,296	-	-	700,621,310
2036	577,782,927	105,438,663	17,397,857	-	-	700,619,447
2037	627,698,483	55,525,870	17,398,774	-	-	700,623,127
2038	480,951,399	53,272,063	17,402,597	-	-	551,626,058
2039	481,889,599	52,336,313	17,398,577	-	-	551,624,488
2040	483,828,609	50,410,313	17,401,464	-	-	551,640,385
2041	485,875,715	48,372,563	17,395,557	-	-	551,643,835
2042	490,584,466	44,150,063	17,395,607	-	-	552,130,135
2043	199,192,145	32,163,813	17,400,764	-	-	248,756,721
2044	184,483,549	59,889,313	17,400,178	-	-	261,773,040
2045	142,446,854	101,968,063	6,828,500	-	-	251,243,416
2046	33,305,534	98,196,563	6,831,000	-	-	138,333,097
2047	-	99,192,063	6,830,000	-	-	106,022,063
2048	-	75,921,696	6,830,000	-	-	82,751,696
2049	-	-	6,830,250	-	-	6,830,250
<b>Total</b>	<b>\$ 11,097,549,516</b>	<b>\$ 3,749,367,449</b>	<b>\$ 448,070,012</b>	<b>\$ 122,579,168</b>	<b>\$ 64,433,334</b>	<b>\$ 15,481,999,478</b>

### Appendix F - Estimated Operating Expenditures by Account

Description	Estimated FY2021 - FY2025					
	FY2020 Budget	FY2021	FY2022	FY2023	FY2024	FY2025
Salaries and Wages-Direct - (511101)	\$44,484,612	\$43,111,066	\$44,404,398	\$45,736,530	\$47,108,626	\$48,521,884
Salaries and Wages-Internship - (511202)	205,199	0	0	0	0	0
Salaries and Wage-Overtime - (511301)	846,276	675,087	695,339	716,199	737,685	759,816
Group Insurance - (512101)	9,296,084	9,209,145	9,485,419	9,769,982	10,063,081	10,364,974
Retirement Contributions - (512401)	5,749,498	5,561,156	5,727,991	5,899,830	6,076,825	6,259,130
Retirement Contr.-Internship - (512402)	26,614	0	0	0	0	0
Tuition Reimbursement - (512501)	31,575	11,770	12,123	12,487	12,861	13,247
Unemployment Insurance - (512601)	127,386	123,661	127,371	131,192	135,128	139,182
OPEB Annual Req'd Contribution - (512601)	3,100,000	0	0	0	0	0
Worker's Comp Ins - (512701)	277,761	237,285	244,404	251,736	259,288	267,066
Meeting Expense - (521101)	132,150	87,005	89,615	92,303	95,073	97,925
Consulting/Professional - (521201)	11,164,992	10,101,809	10,404,863	10,717,009	11,038,519	11,369,675
Legal Fees - (521202)	2,086,669	1,688,181	1,738,826	1,790,991	1,844,721	1,900,063
Auditing Fees - (521203)	206,029	103,083	106,175	109,361	112,642	116,021
Trustee Fees - (521204)	295,899	280,031	288,432	297,085	305,997	315,177
Traffic Engineering Fees - (521207)	588,199	450,000	463,500	477,405	491,727	506,479
Police Services (DPS) - (521208)	11,505,625	10,456,916	10,770,624	11,093,743	11,426,555	11,769,351
Armored Car Services - (521209)	54,627	50,142	51,646	53,196	54,792	56,435
Outside Maintenance Services - (521212)	29,685,518	28,549,286	29,405,765	30,287,938	31,196,576	32,132,473
Landscaping - (522202)	61,500	41,500	42,745	44,028	45,348	46,709
Rentals - Land - (522301)	423,151	423,151	435,846	448,921	462,389	476,260
Rentals - Equipment - (522302)	146,172	81,622	84,071	86,593	89,191	91,867
Insurance Expense - Other - (523101)	2,471,370	2,910,455	2,997,769	3,087,702	3,180,333	3,275,743
Postage - (523201)	8,580,260	7,666,039	7,896,020	8,132,901	8,376,888	8,628,195
Telecommunications - (523202)	1,302,721	1,454,263	1,497,891	1,542,828	1,589,112	1,636,786
Public Information Fees - (523203)	26,000	13,369	13,770	14,183	14,609	15,047
Recruitment - (523301)	157,820	30,626	31,545	32,491	33,466	34,470
Magazine and Newspaper - (523302)	1,426,601	1,118,782	1,152,345	1,186,916	1,222,523	1,259,199
Television & Radio - (523303)	1,019,697	700,499	721,514	743,159	765,454	788,418
Promotional Expenses - (523304)	1,480,799	1,096,883	1,129,790	1,163,683	1,198,594	1,234,552
Employee Appreciation - (523305)	1,752	331	341	351	362	373
Printing and Photographic - (523401)	130,278	86,931	89,539	92,225	94,992	97,842
Maps & Pamphlets - (523402)	46,960	16,155	16,640	17,139	17,653	18,183
Travel - (523501)	246,737	68,555	70,612	72,730	74,912	77,160
Dues & Subscriptions - (523601)	355,576	282,134	290,598	299,316	308,296	317,544
Education and Training - (523701)	373,530	161,812	166,667	171,667	176,817	182,121
Licenses - (523801)	29,502	8,545	8,801	9,065	9,337	9,617
Temporary Contract Labor - (523851)	11,839,775	8,005,051	8,245,203	8,492,559	8,747,336	9,009,756
Liability Claims - (523902)	6,182	6,182	6,368	6,559	6,755	6,958
Office Supplies - (531101)	656,287	523,090	538,783	554,946	571,594	588,742
Other Materials and Supplies - (531102)	2,292,277	2,178,468	2,243,822	2,311,137	2,380,471	2,451,885
Mobile Equipment Expense - (531103)	909,425	812,200	836,566	861,663	887,513	914,139
Freight and Express - (531105)	7,112	5,453	5,617	5,785	5,959	6,138
Motor Fuel Expense - (531107)	1,023,309	963,678	992,588	1,022,366	1,053,037	1,084,628
Water - (531211)	850,000	883,696	910,207	937,513	965,638	994,608
Gas - (531221)	50,600	29,108	29,981	30,881	31,807	32,761
Electricity - (531231)	1,906,846	1,763,029	1,815,920	1,870,397	1,926,509	1,984,305
Books & Periodicals - (531401)	1,600	0	0	0	0	0
Inven for resale(toll tags) - (531501)	9,491,582	3,819,488	3,934,073	4,052,095	4,173,658	4,298,867
Small Tools and Shop Supplies - (531601)	288,685	177,968	183,307	188,806	194,470	200,304
Software (Under \$5,000) - (531651)	8,218,337	8,801,330	9,065,370	9,337,331	9,617,451	9,905,974
Uniforms - (531701)	324,860	289,256	297,933	306,871	316,077	325,560
Bank Charges - (573001)	472,649	454,859	468,505	482,560	497,037	511,948
Credit Card Fees - (573002)	18,995,336	18,141,068	18,685,300	19,245,859	19,823,235	20,417,932
<b>Totals</b>	<b>195,480,000</b>	<b>173,711,200</b>	<b>178,922,536</b>	<b>184,290,212</b>	<b>189,818,919</b>	<b>195,513,486</b>