TOWN OF
WINDSOR

Capital Improvement Program

FY 2019-2024

Adopted Budget

June 19, 2019

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PROJECT OVERVIEW

TOWN OF
WINDSOR

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Capital Improvement Program Guide

The fiscal years 2019-2024 Capital Improvement Program (CIP) is a planning tool that identifies the Town of Windsor's long-range capital needs and prioritizes them over a five-year period. The CIP describes in detail, specific Town improvement projects, complete with construction schedules and anticipated financing, for the five-year period from July 1, 2019 through June 30, 2024. Various revenue sources are used to finance these projects including: Drainage Mitigation, General Fund, Park Development, Traffic Mitigation, Utility Funds and certain outside funding sources. On May 28, 2019, the Planning Commission reviewed the CIP and made a finding that the proposed fiscal years 2019-2024 CIP is consistent with the Windsor 2040 General Plan in accordance with Government Code Section 65401. Government Code Section 65401 requires that the Planning Commission review all capital projects that will be planned, initiated or constructed during the ensuing fiscal years for conformity with the General Plan. Finally, on June 19, 2019, the Town Council adopted of the fiscal years 2019-2024 CIP. After Town Council approves the CIP, capital projects are initiated when Council approves appropriations in the Town's Budget and acts on specific projects such as the award of contract to a construction company.

This five-year program is designed to:

- Serve as both a financial and project planning document.
- Assist in the orderly development of the Town and concurrent construction of public facilities and infrastructure.
- Implement and be consistent with the goals and policies of the Town including the General Plan.
- Implement approved Master Plans.

The Capital Improvement Program is presented in three parts:

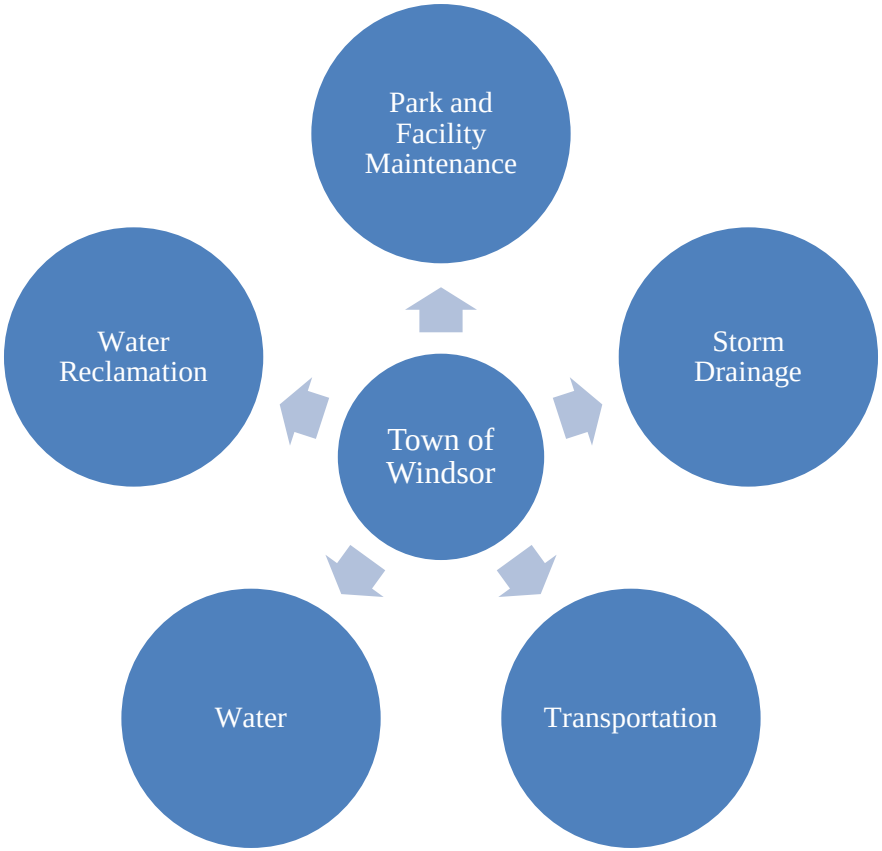
Fund Appropriation Summary:
A fund appropriation summary for the various capital funding sources used in the Capital Improvement Program.

Project Descriptions:
A detailed description of each capital improvement project, including the project description, need (justification) for the project, consistency with the General Plan, project costs, funding sources, annual appropriations, construction schedule and total project cost. Since the General Plan Update is currently underway, the CIP will be reviewed and updated in 2019 for continued consistency with the General Plan.

Financial Summaries by Fund: A summary of the financial impact of the capital projects on the various funds. Each fund is summarized by year, showing the financial impacts from Source of Funds (revenues such as development impact fees interest and transfers in from other sources) and Uses of Funds (expenditures such as maintenance and operations, appropriations for capital improvements and transfers out to other funds).

Capital Improvement Programs

The Town of Windsor Capital Improvement Program (CIP) represents a significant investment in the Town's infrastructure. The capital improvement projects identified in this CIP fund infrastructure improvements throughout the Town including: parks, community facilities, storm drainage, transportation systems, water systems (drinking water production and distribution, and urban recycled water distribution), and water reclamation systems (wastewater infrastructure, collection and treatment, and treated water disposal and transfer). The projects in this CIP are organized into one of the five following program areas:



Program Assumptions

The Capital Improvement Program (CIP) is based on the following assumptions:

- All projected revenues are shown in current dollars unless otherwise stated. All projected costs for Fiscal Year 2018-19 are shown in current dollars and an annual inflation adjustment factor of 2% has been added to subsequent years, where applicable. Other tax revenues and the availability of other funds are consistent with the latest fiscal analysis.

- Project cost estimates are preliminary and are based on the best information available at this time. Cost estimates are reviewed and refined during the design of each project.

- For the purpose of this program, capital improvements are defined as projects exceeding $50,000 with a useful life of five or more years and all assets included in the project cost estimates are in a fixed location.

- Water and water reclamation funds assume rate and fee increases based on the Water and Water Reclamation Financial Plan and Rates and Fees studies.

Summary of Significant Changes in Capital Improvement Projects

New, completed, removed or significantly changed or carried over capital improvement projects compared to the adopted fiscal years 2019-2024 Capital Improvement Program are summarized below:

New Capital Improvement Projects

Storm Drainage Projects

- Shiloh Road/Pruitt Creek Twin Culvert Erosion Control
- Hall Park Detention Basin
- North of Arata Lane Drainage Improvements

Parks & Facility Maintenance Projects

- Clara's Garden Renovation
- Dog Parks
- Old Vineyard Park Improvements
- Pickleball Courts at Hiram Lewis Park
- Senior Center Facility Improvements
- Town Green Arbor Improvements
- Vintage Oaks Park Improvements
-

Transportation Projects

- Crosswalk Enhancements at Brooks Road South and US 101 Northbound On-ramp
- FY19-2021 Town Wide Street Resurfacing
- Faught Creek Trail Improvements from Victory Lane to Old Redwood Highway
- Starr Road Sidewalk Improvement South of Starr View Drive
- Crosswalk Improvements at Brooks Road at Natalie Drive
- Downtown Pedestrian & Bicycle Crossing of US 101 Phases 1 & 2
- Old Redwood Highway from Starr Road to Arata Lane Pedestrian Improvements

Water Projects

- Meter Flow Testing Improvements at Russian River Well Field
- Turnberry Court Pipe Improvements
- Century Court Pipe Improvements
- Savannah Way and Merner Drive Pipe Construction
- Water Transmission Reliability at Russian River Well Field West of Eastside Road
- Windsor River Road/Windsor Road Intersection Utility Improvements

Water Reclamation Projects

- Treatment Plant Equipment Replacements
- Upgrade Selector Box in Aeration Basin B at WRF
- Aeration Basin Automatic Control at WRF
- Emergency Generator Upgrade and Replacement at WRF
- Main switchboard Replacement at WRF
- Underground of Overhead Utilities at Windsor Road in Front of Pond 7
- Ultraviolet System Replacement at WRF
- Pond 7 Algae Control Improvements
- Pond 10 Berm Repair

Water Reclamation Facility (WRF)

Completed Capital Improvement Projects

The following projects were completed in fiscal years 2017-2019 and therefore no longer appear in the fiscal years 2019-24 CIP.

Storm Drainage Projects (none)

Park & Facility Maintenance Projects

- Keiser Park Playground Restroom
- Town Green Fountain Vault Improvements
- Old Firehouse Parking Lot Improvements
- Michael A. Hall Park Improvements

Transportation Projects

- Bell Road/Market Street/Winsor River Road Traffic Signal Installation and Pedestrian Enhancements
- Starr Road Sidewalk Gap Closure
- Conde Lane/Johnson Street Traffic Signal Installation and Pedestrian Enhancements
- Jaguar Way/Windsor Traffic Signal, Pedestrian and Roadway Improvements
- FY 2017-2019 Town-wide Street Resurfacing Project
- Starr Road-Jaguar to Indiana
- Old Redwood Highway at Kendall Way Crosswalk Improvements

Water Projects

- Water Meter Transmitter Upgrades

Water Reclamation Projects

- Rehabilitate Advanced Wastewater Treatment (AWT) Clarifier No.2
- Valve and Pipe Improvements

Other Significant Changes to Existing Capital Improvement Projects (CIP)

Storm Drainage Projects

- Old Redwood Highway at Dawn Way Drainage Improvements: This is a continuation of Project 8011. The project budget and schedule were updated to reflect a conceptual design change and the start of construction in fiscal year 2020-2021.
- Shiloh Road at Caletti Avenue Drainage Improvements: The project budget and schedule were updated to reflect start of construction work in fiscal year 2020-2021.
- Shiloh Road/Pruitt Creek Twin Culvert Erosion Control: This is a new project to address erosion at an existing culvert.
- Starr Creek Tributary #5 – South of Arata Lane Drainage Improvements: This is a continuation of Project 0098. The project scope was been modified to include a stormwater detention solution on Town-owned property. The project incorporates improvements to storm drain inlets as recommended in the former "Arata Lane Storm Drain Inlet Improvements Project" which was removed from the CIP.
- Hall Park Detention Basin: This is a new project and will supplement Project 8011 by detaining stormwater upstream of the Old Redwood Highway at Dawn Way intersection. This project was initiated by a feasibility study for the Old Redwood Highway at Dawn Way Drainage Improvements Project, which determined that detention would be effective at this location, and by the general recommendation in the Storm Drain Master Plan Phase 1 to favor stormwater detention over conveyance solutions for flooding issues.
- Windsor Creek Flood Control Project: This is a new project recommended in the Storm Drain Master Plan Phase 1.
- North of Arata Lane Drainage Improvements: This is a new project recommended in the feasibility study for the Old Redwood Highway at Dawn Way Drainage Improvements Project and mitigates future stormwater runoff from development proposed in the annexation north of Arata Lane.

Park & Facility Maintenance Projects

- Keiser Park Improvements: This project was updated to remove the dog park improvements and create a new CIP for the installation of a new dog park in Windsor. Town Staff will work through a full community input process prior to any dog park development to determine the best location and design.
- Veterans Memorial Wall: CIP naming has been changed to reflect a broader representation within the project.
- Esposti Park Improvements: This project was carried over into fiscal year 2020 -2021.
- Wilson Ranch Soccer Park Field Lighting: This project was phased to better align with funding. Phase one will convert the existing metal halide lighting to LED. Phase two will add eight additional light poles to the second half of the field.
- Park Land Acquisition: This project was carried over into the new CIP to prepared for the 2020 Open Space District Grant Program funding cycle.

Other Significant Changes to Existing Capital Improvement Projects (CIP)

Transportation Projects

- FY 2019-2021 Town Wide Street Resurfacing: Ongoing project that is updated every two years that follows the recommendations of the pavement management system. This project receives funds from the Transportation Grant fund (Measure M).
- Highway 101 and Arata Lane Northbound On-Ramp: This project has been split into the following 3 phases:
  - Phase 2B – Los Amigos Road Realignment: Project design work is scheduled to begin in fiscal year 2019-2020.
  - Phase 2C – Arata Lane Northbound On-Ramp: The project budget and schedule were updated to reflect start of preliminary design work and Project Initiation Document (PID)in fiscal year 2020-2021.
  - Phase 2D – Arata Lane Widening – Reconstruction of Highway 101 Overpass: The project budget and schedule was updated to reflect start of the Project Initiation Document (PID) in fiscal year 2023-2024.
  - Transportation Grant funding shall be pursued by the Town to construct each phase of the improvements.
- Corporation Yard Pavement Maintenance: The project budget and schedule were updated to reflect start of design work in fiscal year 2021-2022.
- Crosswalk Enhancements at Brooks Road South and US 101 NB On-ramp: This project is identified in the Safe Routes to School Report and is also part of the Class I Trails study. Residents have identified the crosswalks as areas of concern for students. The project is funded in large part by a Transportation Development Act (TDA 3) grant.
- Faught Creek Trail Improvements from Victory Lane to ORH: This bike and pedestrian facilities project was identified in the 2014 Windsor Bicycle and Pedestrian Master Plan and the Class I Trails Study. The majority of the project is funded by a Transportation Fund for Clean Air (TFCA) grant.
- Safe Routes to School Crosswalk and Sidewalk improvements: The project budget and schedule was updated to reflect start of design work in fiscal year 2021-2022.
- Shiloh Road Left Turn Intersection Improvements at Caletti Ave: This project will provide additional storage capacity for a left turn into Caletti Ave from Shiloh Rd. Design work is expected to be completed in fiscal year 2020-2021 and construction in fiscal year 2021-2022.
- Starr Road Sidewalk Improvements South of Starr View Drive and Vivian Court to Windsor River Road: These projects were carried over into the new CIP and are expected to be completed by fiscal year 2020-2021. These projects will receive funding from the Community Development Block Grant (CDBG).

Other Significant Changes to Existing Capital Improvement Projects (CIP)

Transportation Projects (continued)

- Windsor River Road/Windsor Road Intersection Improvements: The project budget and schedule were updated to reflect completion of design and environmental work in fiscal year 2019-2020. Construction is anticipated to begin in fiscal year 2020-2021. The costs associated with this project have increased substantially as the construction costs were not previously determined. One Bay Area Grant (OBAG) funding in the amount of $3 million is available for construction. SB1 Gas Tax funds have been programmed to help fund construction of this project.

Water Projects

- Esposti Municipal Well Head and Treatment Systems: A pilot well was drilled and well water did not meet some potable water quality standards. This year the Esposti Well feasibility study indicated that a new well location should be pursued before moving forward with costly well-head treatment and municipal well development at Esposti Park. The project has been modified in this CIP and delayed to FY 2021-23, pending results of the North Windsor off-rive well development.
- Shiloh Tank Site #2 Enclosures: This project was carried over into the new CIP and will be completed in fiscal year 2020-21. Cost have increased due to increased construction costs.
- Town-wide Advanced Metering Infrastructure (AMI): This project was completed and the next phase of the project, town-wide Advanced Metering Infrastructure (AMI) is included in the new CIP and will be completed in fiscal year 2019-2020.
- North Windsor Supply Well: This project was carried over into the new CIP. The project was divided into phases, with a study phase incorporated into the upcoming Urban Water Management Plan and possible construction, depending on study results, slated for FY 2023-2024.
- New Well at Russian River Well Field: The timing of this project was updated to reflect a start date in fiscal year 2023-2024.
- Meter Flow Testing Improvements at Russian River Well Field: This is a new project required by regulations.
- Turnberry Court Pipe Improvements: This is a new project recommended in the Water Master Plan
- Century Court Pipe Improvements: This is a new project recommended in the Water Master Plan
- Savannah Way and Merner Drive Pipe Construction: This is a new project recommended in the Water Master Plan
- Water Transmission Reliability at Russian River Well Field West of Eastside Road: This is a new project recommended in the Water Master Plan
- Windsor River Road/Windsor Road Intersection Utility Improvements: This is a new project consisting of water and wastewater utility improvements. The construction of the utility improvements will be completed prior to the roundabout and rail improvements at the intersection.

Other Significant Changes to Existing Capital Improvement Projects (CIP)

Water Reclamation Projects

- Influent Wet Well Screen at Water Reclamation Facility (WRF): During design, the project scope and budget were altered to include rerouting of the sewer main from beneath the footprint of the influent pump station. The project schedule was updated to delay the start of construction to fiscal year 2021-2022 in order to secure funding for the project. The project number was changed from 1114 to 1801.
- Advanced Wastewater Treatment (AWT) Static Mixer Improvements at WRF: The project schedule was prioritized to complete construction in fiscal year 2019-2020. The project budget was slightly reduced based on costs provided in the Water Reclamation Facility Modernization Study.
- Blower Facility Upgrades at WRF: This is a continuation of Project 8015. The project scope and budget was increased to include a feasibility study to consider future growth, updated blower configuration, and replacement of the aged motor control center. The project schedule was updated to reflect the start of construction in fiscal year 2020-2021.
- Upgrade Selector Box in Aeration Basin A at WRF: The project scope and budget were updated to include increasing the size of the selector box to optimize for phosphorus reduction and to refurbish the aged aeration system. The project schedule was updated to reflect the start construction in fiscal year 2020-2021.
- Rehabilitate Secondary Clarifiers at WRF: The project schedule was updated to delay the start of construction to fiscal year 2021-2022. The budget was slightly modified to meet the schedule change.
- Treatment Plant Equipment Replacements: This project is a continuation of various equipment replacements at the Advanced Wastewater Treatment (AWT) pump station. The remaining task is to replace the centrifugal AWT pumps.
- Rehabilitate Advanced Wastewater Treatment (AWT) Clarifiers at WRF: This project is a continuation of the former Project "Rehabilitate Advanced Wastewater Treatment (AWT) Clarifiers." Clarifier No. 2 was rehabilitated during the summer of 2019. Refurbishment of Clarifier No. 1 is delayed to fiscal year 2020-2021.
- Aeration Basin Automatic Controls at WRF: This is a new project.
- Mitchell Lane Pump Station Upgrade: This is a continuation of Project 1404 and the project schedule was updated for begin in fiscal year 2021-2022.
- Paving Repair and Resurfacing at WRF: This is a continuation of the form Project "Wastewater Reclamation Plant Pavement Repair/Resurfacing." The project schedule and budget were updated to reflect construction in fiscal year 2021-2022.
- Headworks Screen Upgrade at WRF: This is a continuation of former Project "Headworks Screen Upgrade." The project schedule and budget were updated to reflect the start of construction in fiscal year 2019-2020.

Other Significant Changes to Existing Capital Improvement Projects (CIP)

Water Reclamation Projects (continued)

- Conde Business Park Easement Access Road Resurfacing: This is a continuation of former Project "Sewer Access Road at Conde Business Park Easement." The project schedule and budget were updated to reflect construction in fiscal year 2020-2021.
- Mitchell Lane Transfer Pipeline: This is a continuation of Project 1401and the project schedule has been updated to start in fiscal year 2021-2022.
- Security Fencing Repair and Upgrade at WRF: This is a continuation of Project 1110. The project schedule and budget were updated to reflect the start of construction in fiscal year 2021-2022.
- Upgrade Selector Box in Aeration Basin B at WRF: This is a new project recommended in the Water Reclamation Facility Modernization Study.
- Emergency Generator Upgrade and Replacement at WRF: This is a new project recommended in the Water Reclamation Facility Modernization Study.
- Main Switchboard Replacement at WRF: This is a new project recommended in the Water Reclamation Facility Modernization Study.
- Undergrounding of Overhead Utilities at Windsor Road in Front of Pond 7 at WRF: This is a new project.
- Ultraviolet (UV) System Replacement at WRF: This is a new project recommended in the Water Reclamation Facility Modernization Study.
- Pond 7 Algae Control Improvements: This is a new project to install improvements at Pond 7 to help control the growth of algae at Pond 7.
- Pond 10 Berm Repairs: This is a new project needed due to damage to Pond 10 berm during the heavy rains in the winter season 2018-2019.
- Grit Classifier: This is a new project which removes sand and gravel from the waste stream. The current system is corroded and beyond its service life.
- Replacement Program for Flocculation Tank Mixers: This is an annual replacement program to replace two mixers each year until all 12 mixers are replaced. The mixers were originally installed nearly 20 years ago and are functioning beyond their service life.

PARKS & FACILITY MAINTENANCE PROJECTS

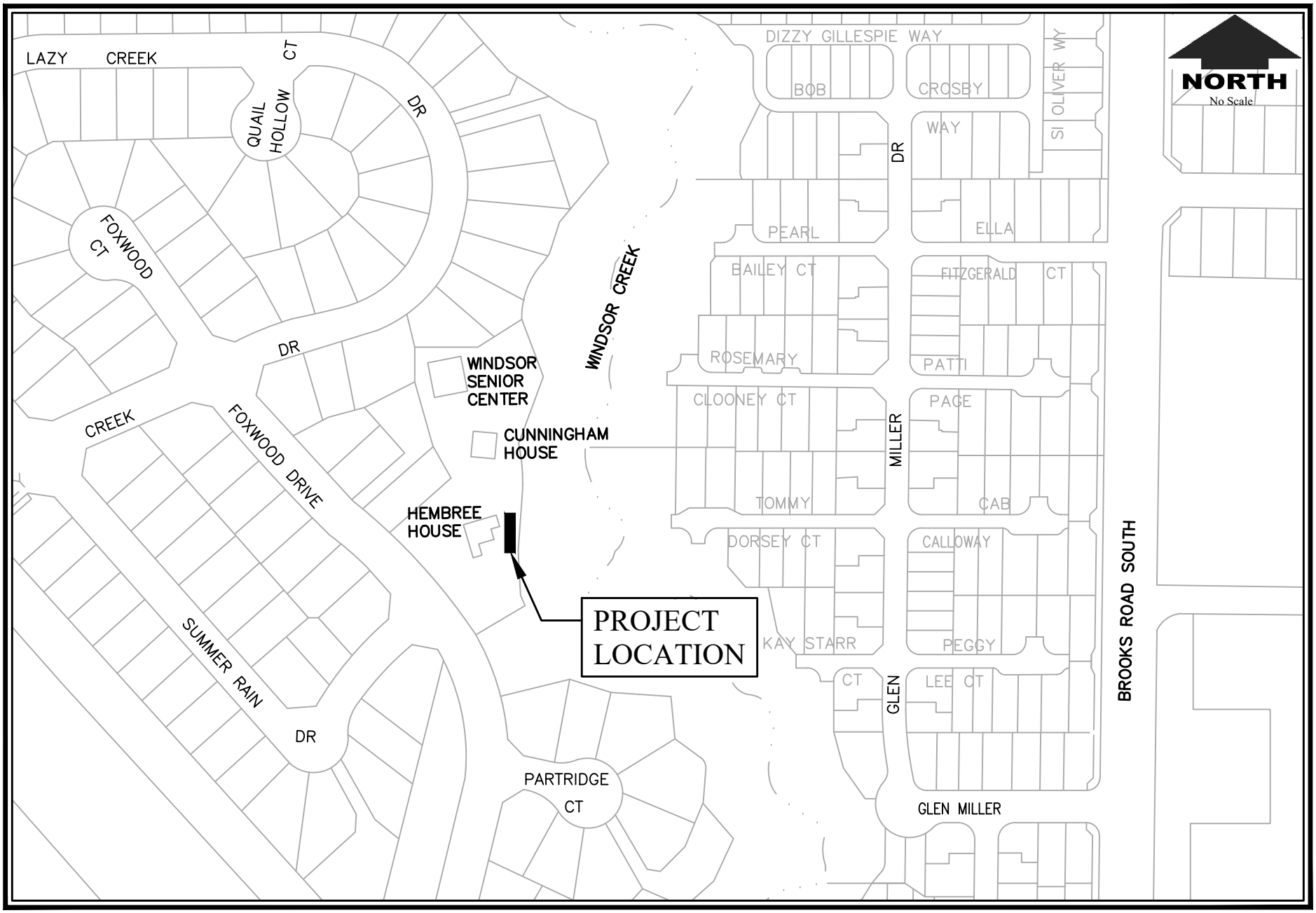


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APPROPRIATIONS PLAN SUMMARY FOR
PARKS & FACILITY MAINTENANCE PROJECTS

PROJECT	Page No.	Project No.	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	TOTAL
Clara's Garden Renovation	PFM - 3	New	$ -	$ -	$ 570,000.00	$ -	$ -	**$ 570,000**
Dog Parks	PFM - 5	2001	$ 50,000.00	$ -	$ -	$ -	$ -	**$ 50,000**
Esposti Park Improvements	PFM - 7	pf1822	$ -	$ 25,000.00	$ 402,500.00	$ -	$ -	**$ 427,500**
Keiser Park Improvements	PFM - 9	pf1880	$ -	$ -	$ 250,000.00	$ 300,000.00	$ -	**$ 550,000**
Lighting for Keiser Park Baseball Fields	PFM - 11	pf0011	$ -	$ -	$ 494,500.00	$ -	$ -	**$ 494,500**
Military (Veterans) Memorial Wall	PFM - 13	New	$ -	$ -	$ -	$ 21,500.00	$ 184,000.00	**$ 205,500**
Old Vineyard Park Improvements	PFM - 15	2101	$ -	$ 85,000.00	$ -	$ -	$ -	**$ 85,000**
Park Land Acquisition	PFM - 17	2102	$ -	$ 1,000,000.00	$ -	$ 1,000,000.00	$ -	**$ 2,000,000**
Pickleball Courts at Hiram Lewis Park	PFM - 19	New	$ -	$ -	$ 25,000.00	$ 201,250.00	$ -	**$ 226,250**
Senior Center Facility Improvements	PFM - 21	2002	$ 190,000.00	$ -	$ 105,000.00	$ -	$ -	**$ 295,000**
Town Green Arbor Improvements	PFM - 23	2103	$ -	$ 10,000.00	$ 347,500.00	$ -	$ -	**$ 357,500**
Vintage Oaks Park Improvements	PFM - 25	New	$ -	$ -	$ -	$ 26,000.00	$ 287,500.00	**$ 313,500**
Wilson Ranch Soccer Park LED Field Lighting	PFM - 27	pf0048	$ -	$ -	$ 280,000.00	$ 460,000.00	$ -	**$ 740,000**
Wilson Ranch Soccer Park Improvements	PFM - 29	New	$ -	$ -	$ -	$ 32,000.00	$ 402,500.00	**$ 434,500**
TOTAL APPROPRIATIONS			**$ 240,000**	**$ 1,120,000**	**$ 2,474,500**	**$ 2,040,750**	**$ 874,000**	**$ 6,749,250**

Clara's Garden Renovation



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Clara's Garden Renovation

Project No: New

GL No: 010-74-25-21xx-4510-000

Project Description:
This project would be in conjunction with the Windsor Historical Society and would include a renovation of the garden located at the Hembree House Museum. It would provide ADA access into the garden, restore historic features and provide additional community access to the facility through the connection to the Windsor Creek Trail and the Windsor Senior Center.

Department:
Parks and Recreation

Priority:

_____	**Mandate**
_____	**Necessary**
X	**Desirable**

Justification:
The 2030 Parks and Recreation Master Plan calls for on-going partnerships and collaborations. This project will build upon the long standing realationship between the Town and the Windsor Historical Society.

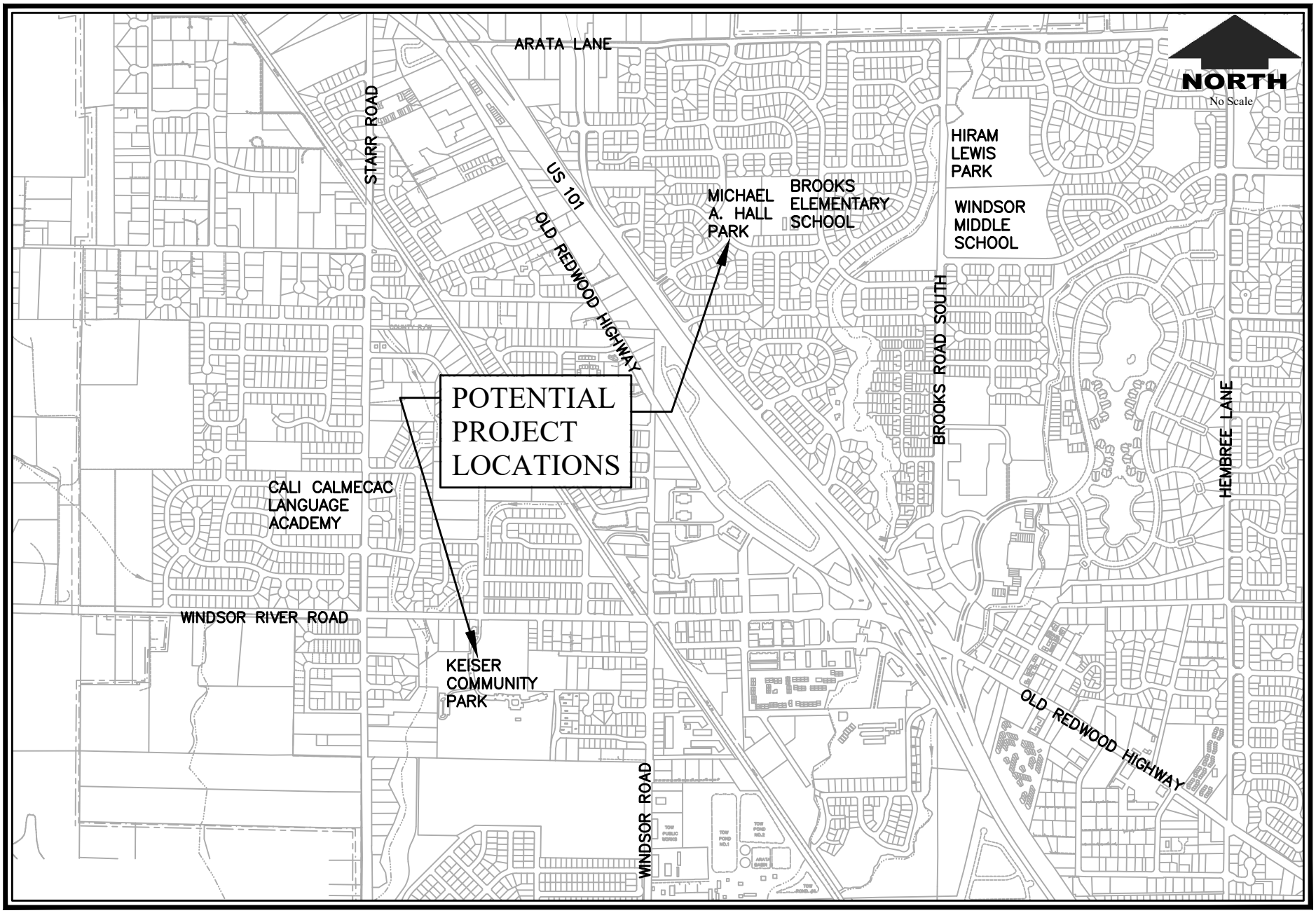
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
This project is consistent with the 2040 General Plan. PFS-9.7 Special Service Facilities. The Town shall provide special service facilities that serve a single recreation function, the recreational needs of a special population, and/or indoor recreational facilities. These facilities should be on or adjacent to parks or existing school sites. Facilities desirable in Windsor include communicy gardens and walking paths.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design					-	60,000			$ 60,000
	Construction					-	510,000			$ 510,000
		-	-			-				$ -
		-	-			-				$ -
	Total	$ -	$ -		$ -	$ -	$ 570,000	$ -	$ -	$ 570,000
Funding Sources:	General Fund					-	570,000			$ 570,000
	Grants and Donations									$ -
	Total	$ -	$ -		$ -	$ -	$ 570,000	$ -	$ -	$ 570,000
Estimated O & M										

Dog Parks



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Dog Parks

Project No: 2001

GL No: 010-74-25-2001-4510-000

Project Description:
This project will include an ad-hoc committee and public outreach process to determine the best location and set-up for an additional dog park in Windsor. Potential loctions which have been idenified through the Master Plan and previous community surveys include Michael Hall Park and Keiser Park.

Department:
Parks and Recreation

Priority:

	Mandate
	Necessary
X	**Desirable**

Justification:
The Parks and Recreation Master Plan recommendation R4.1-1: Determine potential locations for desired park elements including a dog park.

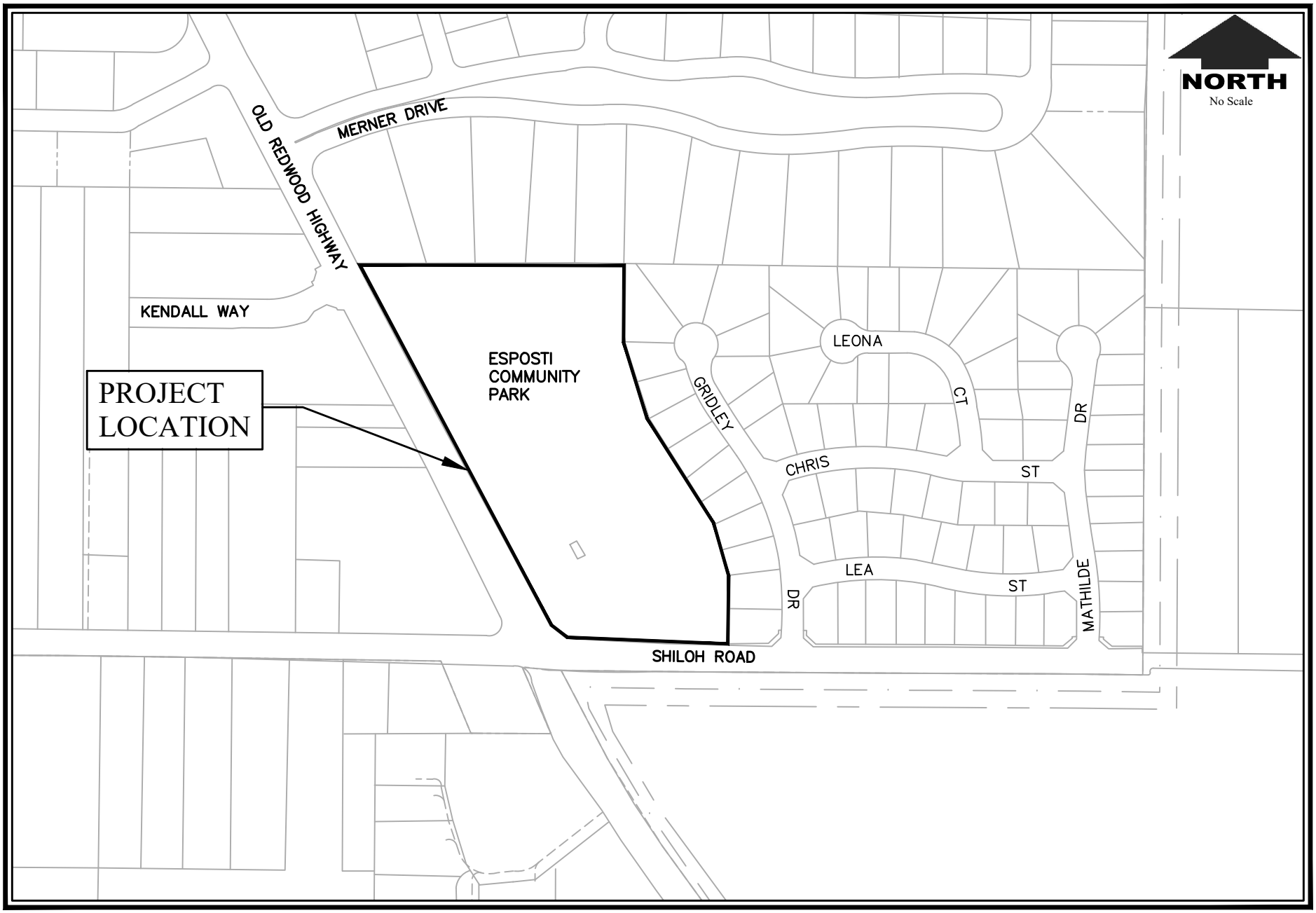
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
This project is consistent with the 2040 General Plan. PFS-9.7 Special Service Facilities. The Town shall provide special service facilities that serve a single recreation function, the recreational needs of a special population, and/or indoor recreational facilities. These facilities should be on or adjacent to parks or existing school sites. Facilities desirable in Windsor include Dog Parks.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design				5,000					$ 5,000
	Construction				45,000					$ 45,000
		-	-		-					$ -
		-	-		-					$ -
	Total	$ -	$ -		$ 50,000	$ -	$ -	$ -	$ -	$ 50,000
Funding Sources:	Measure M				50,000					$ 50,000
										$ -
	Total	$ -	$ -		$ 50,000	$ -	$ -	$ -	$ -	$ 50,000
Estimated O & M										

Esposti Park Improvements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Esposti Park Improvements

Project No: pf1822
GL No: 220-74-25-1822-4510-000
GL No: 186-74-25-1822-4510-000

Project Description:
Implement phase two of the adopted Esposti Park Master Plan which includes additional parking, field renovations, and a playground. Design phase will include outreach to user groups.

Department:
Parks and Recreation Department

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
Improvements to this park at this time are compatible with future park improvement identified in the adopted Esposti Park Master Plan. The Parks and Recreation Master Plan recommendation R2.2-2 calls for these improvements at Esposti Park pursuant to the development of the Keiser Park Aquatic and Community Center and the loss of those ball fields.

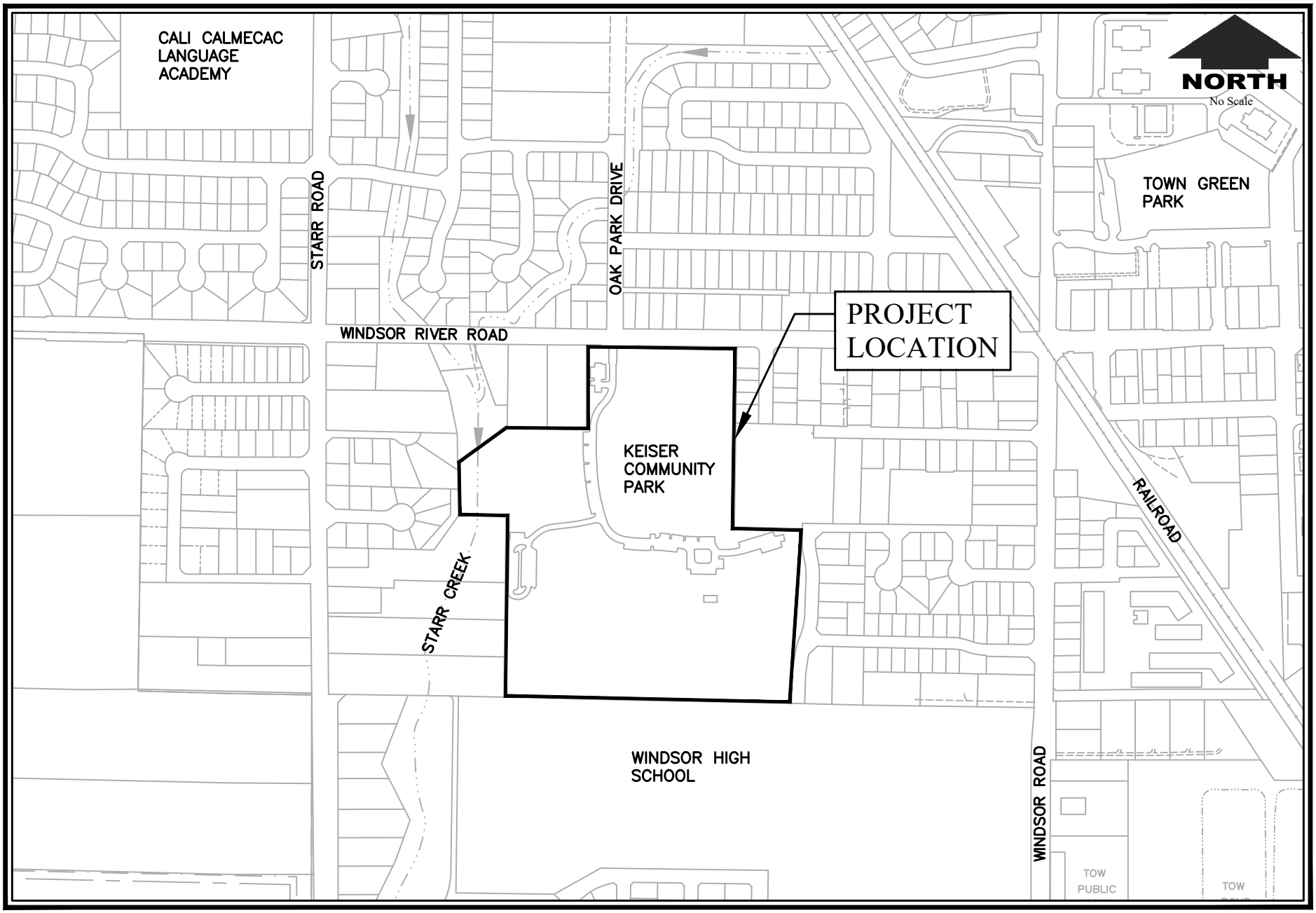
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
This project is consistent with the 2040 General Plan. PFS-9.6 Park Facilities. The Town shall encourage the development of facilities that foster active participation, are accessible, and affordable.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	25,000	-	-	25,000				$ 25,000
	Construction	-	-	-		350,000			$ 350,000
	Construction Management	-	-	-		52,500			$ 52,500
		-	-	-					$ -
		-	-	-					$ -
		-	-	-					$ -
	Total	$ 25,000	$ -	$ -	$ 25,000	$ 402,500	$ -	$ -	$ 427,500
Funding Sources:	Park Development	25,000	-		25,000	200,000			$ 225,000
	Capital Replacement	-	-			202,500			$ 202,500
	Total	$ 25,000	$ -	$ -	$ 25,000	$ 402,500	$ -	$ -	$ 427,500
Estimated O & M									

Keiser Park Improvements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Keiser Park Improvements

Project No: pf1880

GL No: XX

Project Description:
Install two pedestrian bridges over creek and install creek buffer fencing. Replace the tables and benches in the Oak Grove to create three separate rentable areas instead of one large one. This will require some grading and ground covering to ensure ADA access to all areas.

Department:
Parks and Recreation Department

Priority:

	Mandate
	Necessary
X	**Desirable**

Justification:
The Parks and Recreation Master Plan identifies these improvements as consistent with both the PRMP and the Keiser Park Master Plan. R10.3-7 calls to create and preserve wildlife habitat, and R5.6-3 calls for the designation and promotion of rentable areas.

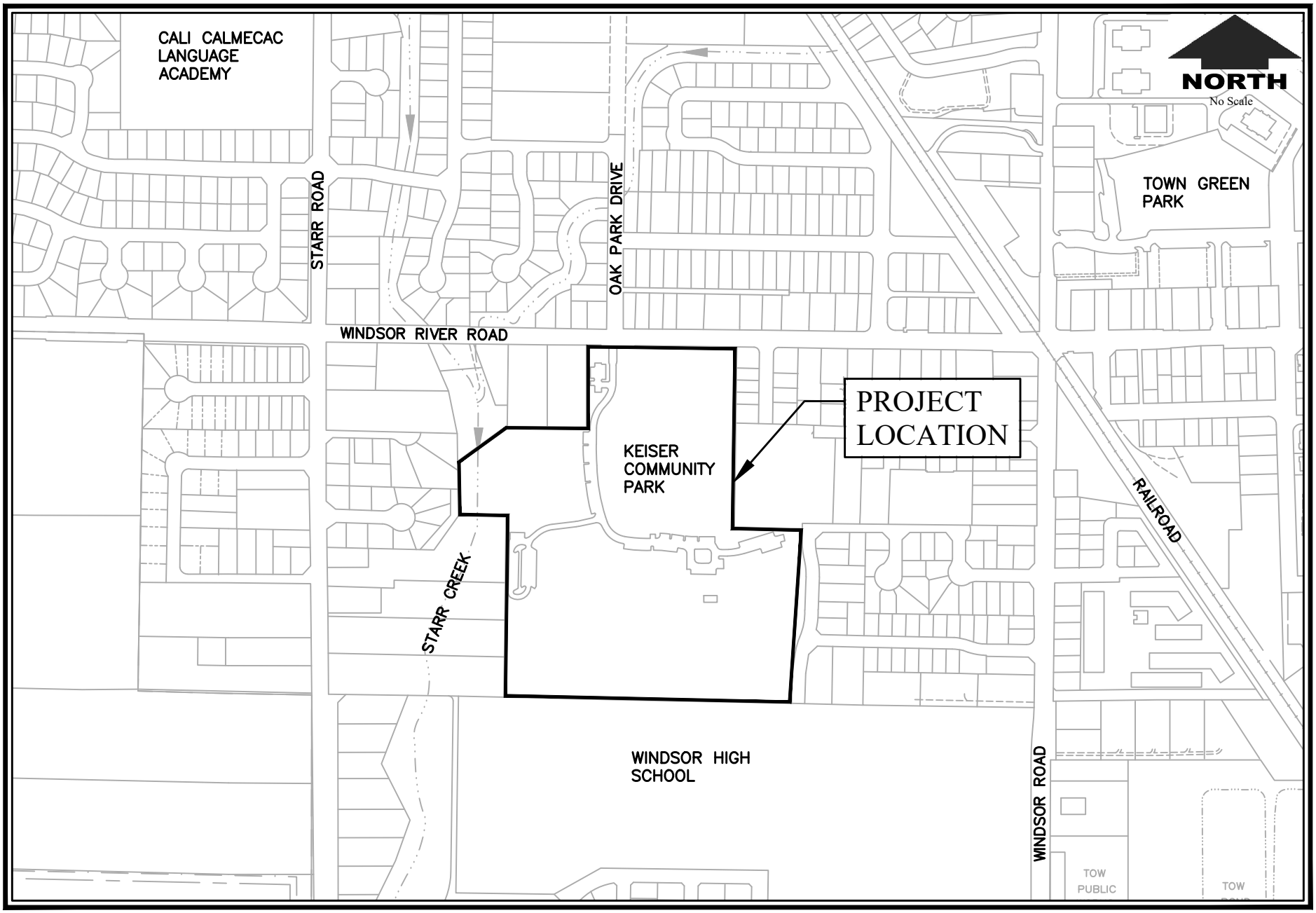
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
This project is consistent with the 2040 General Plan. PFS-9.6 Park Facilities. The Town shall encourage the development of facilities that foster active participation, are accessible, and affordable. PFS-9.20 Keiser Park Master Plan. The Town shall implement the Keiser Park Master Plan, based on community input, to accommodate an Aquatics Center, multi-generational Community Center, and expansion of parkland.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Pedestrian Bridge (2)	-	-	-			300,000		$ 300,000
	Design	10,000	10,000						$ -
	Creek Fencing	8,000	8,000	-					$ -
	Picnic Area Construction	-	-			250,000			$ 250,000
	Dog Park Construction	32,000		-					$ -
									$ -
	Total	$ 50,000	$ 18,000	$ -	$ -	$ 250,000	$ 300,000	$ -	$ 550,000
Funding Sources:	General Fund		-	-			300,000		$ 300,000
	Capital Replacement	-	-		-	250,000			$ 250,000
	Park Development								$ -
									$ -
									$ -
	Total	$ -	$ -	$ -	$ -	$ 250,000	$ 300,000	$ -	$ 550,000
Estimated O & M									

Lighting for Keiser Park Baseball Fields



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Lighting for Keiser Park Baseball Fields

Project No: pf0011

GL No: XX

Project Description:
This project will add field lighting to the Matt Mullan Field "A". The Keiser Park As-Built plans include conduit that was installed during the Phase 1 construction due to the need in 2008. Completed project will include poles, fixtures and controls. Neighborhood outreach was completed during the design process to address community impact. Add future lights to fields B and C.

Department:
Parks and Recreation

Priority:

	Mandate
	Necessary
X	**Desirable**

Justification:
The addition of lighting to this field will allow the extension of play both in the time of day and extended seasons and is consistent with the Parks and Recreation Master Plan recommendation R2.2-4. This will increase rental and revenue generating program potential, allowing for youth baseball and adult softball league expansions. The infrastructure underground was identified as part of Phase 1 of the project but was limited due to budge constraints. The Environmental Impact Report for Keiser includes the field lighting impacts to the surrounding neighbors.

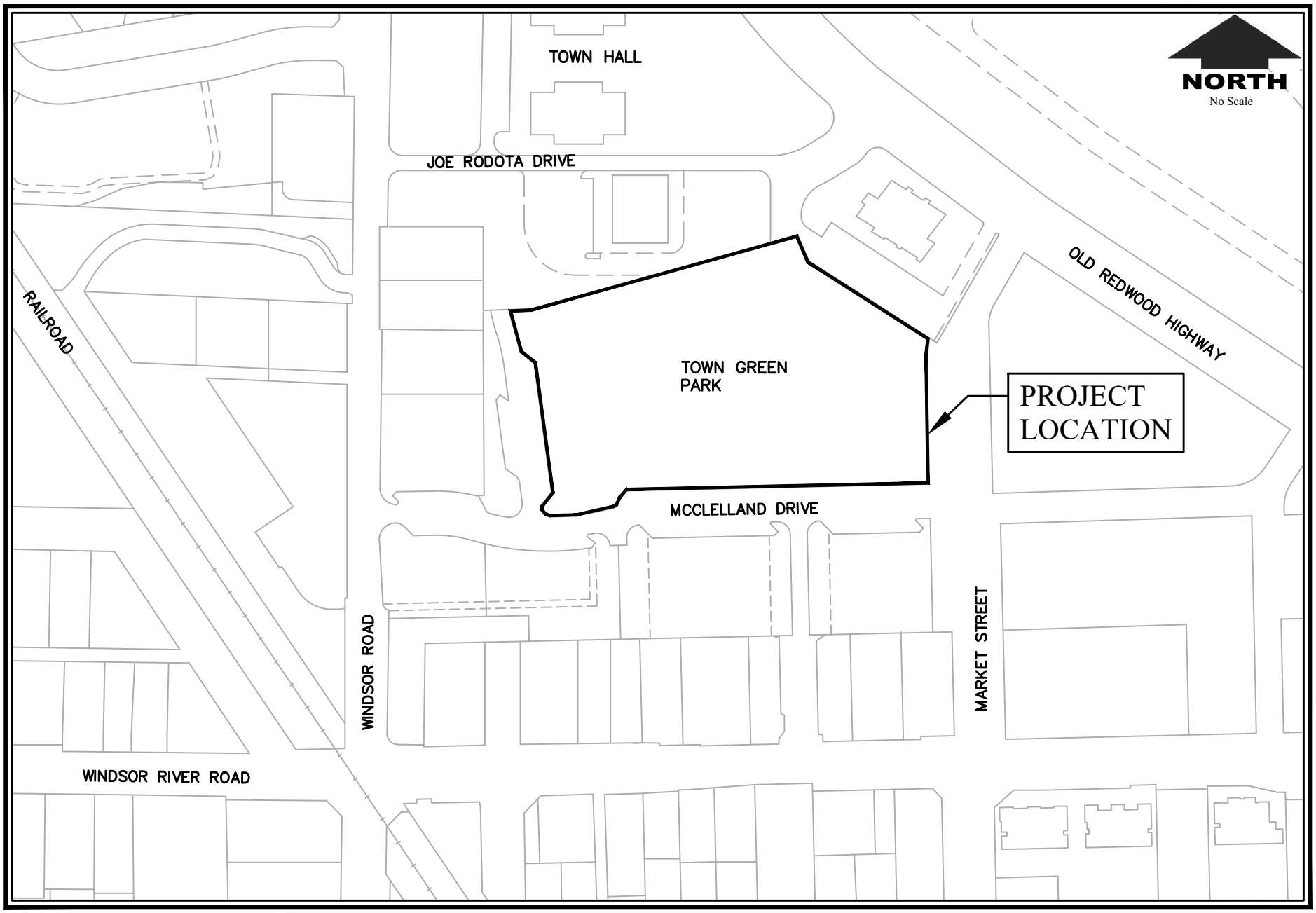
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
This project is consistent with the 2040 General Plan . PFS-9.6 Park Facilities. The Town shall encourage the development of facilities that foster active participation, are accessible, and affordable. PFS-9.20 Keiser Park Master Plan. The Town shall implement the Keiser Park Master Plan, based on community input, to accommodate an Aquatics Center, multi-generational Community Center, and expansion of parkland. PFS-9.14 Park Revenue. The Town shall secure annual adequate funding for park maintenance, while considering revenue-generating opportunities in developing and managing park and recreation facilities. R2.2-4 Add field lighting to Keiser Field A.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Outreach	-	-		-					$ -
	Design/Admin	-	-		-					$ -
	Electrical	-	-		-					$ -
	Construction	-	-				430,000			$ 430,000
	Management						64,500			$ 64,500
	Total	$ -	$ -		$ -	$ -	$ 494,500	$ -	$ -	$ 494,500
Funding Sources:	Park Development	-	-				494,500			$ 494,500
										$ -
	Total	$ -	$ -		$ -	$ -	$ 494,500	$ -	$ -	$ 494,500
Estimated O & M										

Military (Veterans) Memorial Wall



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Military (Veterans) Memorial Wall

Project No: New

GL No: XX

Project Description:
This project includes public input and working with the Military Banner Committee and PAAC to design and build a wall to honor those members of the community who have served in the military. This memorial will be located near the flags poles on the Town Green.

Department:
Parks and Recreation Department

Priority:

_____	**Mandate**
_____	**Necessary**
X	**Desirable**

Justification:
Currently the Town Military Banner Program honors Windsor Residents who are serving in active duty. There is not an opportunity to recognize veterans within our community.

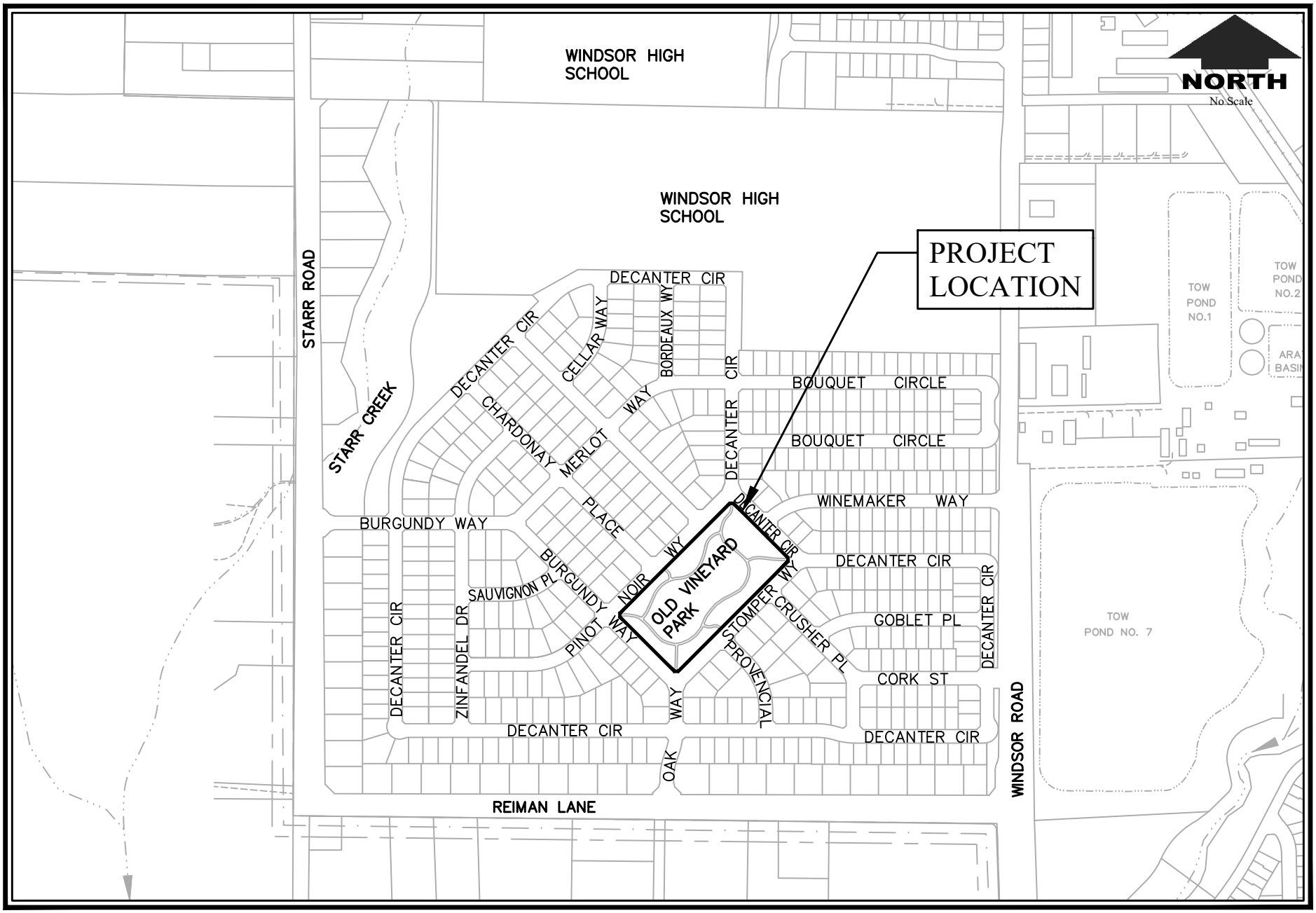
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
This project is consistent with the 2040 General Plan. PFS-9.7 Special Service Facilities. The Town shall provide special service facilities that serve a single recreation function, the recreational needs of a special population, and/or indoor recreational facilities. These facilities should be on or adjacent to parks or existing school sites.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-				20,000		$ 20,000
	Outreach	-	-				1,500		$ 1,500
	Construction	-	-	-		-	-	160,000	$ 160,000
	Construction Management	-	-	-		-	-	24,000	$ 24,000
		-	-	-		-	-		$ -
	Total	$ -	$ -	$ -	$ -	$ -	$ 21,500	$ 184,000	$ 205,500
Funding Sources:	General Fund	-	-				21,500	92,000	$ 113,500
	General Fund Donations	-	-	-		-	-	92,000	$ 92,000
	Total	$ -	$ -	$ -	$ -	$ -	$ 21,500	$ 184,000	$ 205,500
Estimated O & M									

Old Vineyard Park Improvements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Old Vineyard Park Improvements

Project No: 2101

GL No: 010-74-25-2101-4510-000

Project Description:
This project would add a shade structure over the 5-12 playgound and add outdoor fitness equiptment to the playground area. Additionally, it would invest resources into the 54 trees within the park to improve health. This may include cutting turf away from the tree roots, redirecticing overhead irrigation and adding tree bubblers to each location.

Department:
Parks and Recreation

Priority:

	Mandate
	Necessary
X	**Desirable**

Justification:
The Parks and Recreation Master Plan Recommendation R4.1-1: Determine potential locations for desired park elements including shade elements.

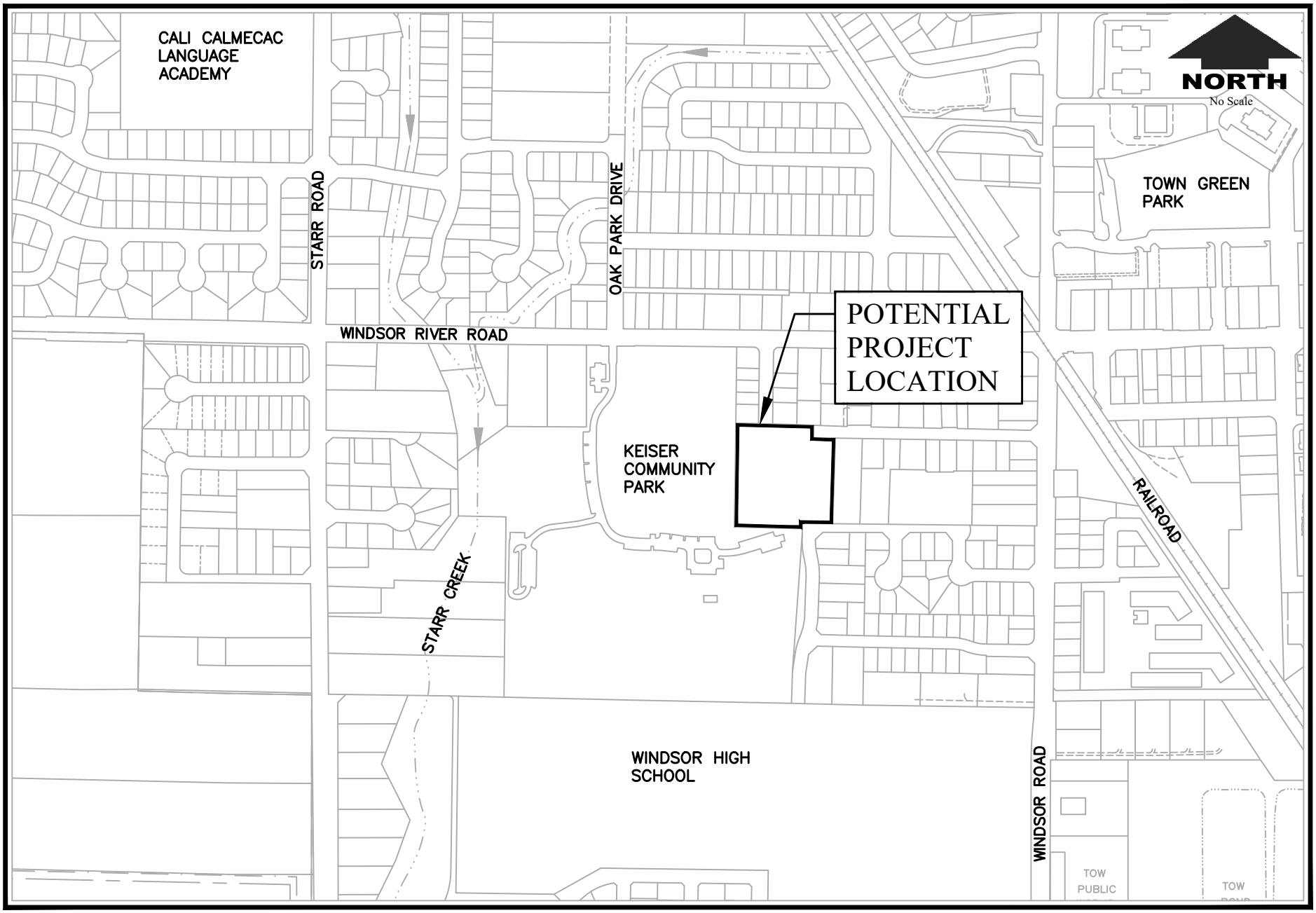
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
This project is consistent with the 2040 General Plan. PFS-9.6 Park Facilities. The Town shall encourage the development of facilities that foster active participation, are accessible, and affordable.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Construction					25,000				$ 25,000
	Shade Structure					30,000				$ 30,000
	Tree Maintenance	-	-			30,000				$ 30,000
		-	-			-				$ -
	Total	$ -	$ -		$ -	$ 85,000	$ -	$ -	$ -	$ 85,000
Funding Sources:	Measure M - Parks					85,000				$ 85,000
										$ -
	Total	$ -	$ -		$ -	$ 85,000	$ -	$ -	$ -	$ 85,000
Estimated O & M										

Park Land Acquisition



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Park Land Acquisition

Project No: 2102

GL No: 220-74-25-2102-4510-000

Project Description:
Land acquisition of property adjacent to Keiser Park as part of the 2020 Open Space Grant Program

Department:
Parks and Recreation Department

Priority:

	Mandate
	Necessary
X	**Desirable**

Justification:
This project is in preparation with the 2018 Sonoma County Open Space and Preservation District grant cycle and was identified through the Park and Recreation Master Plan Update process. Recommendation R2.1-4 calls for acquiring additional land adjacent to Keiser Park to expand Keiser Park's to meet the needs for community park acreage.

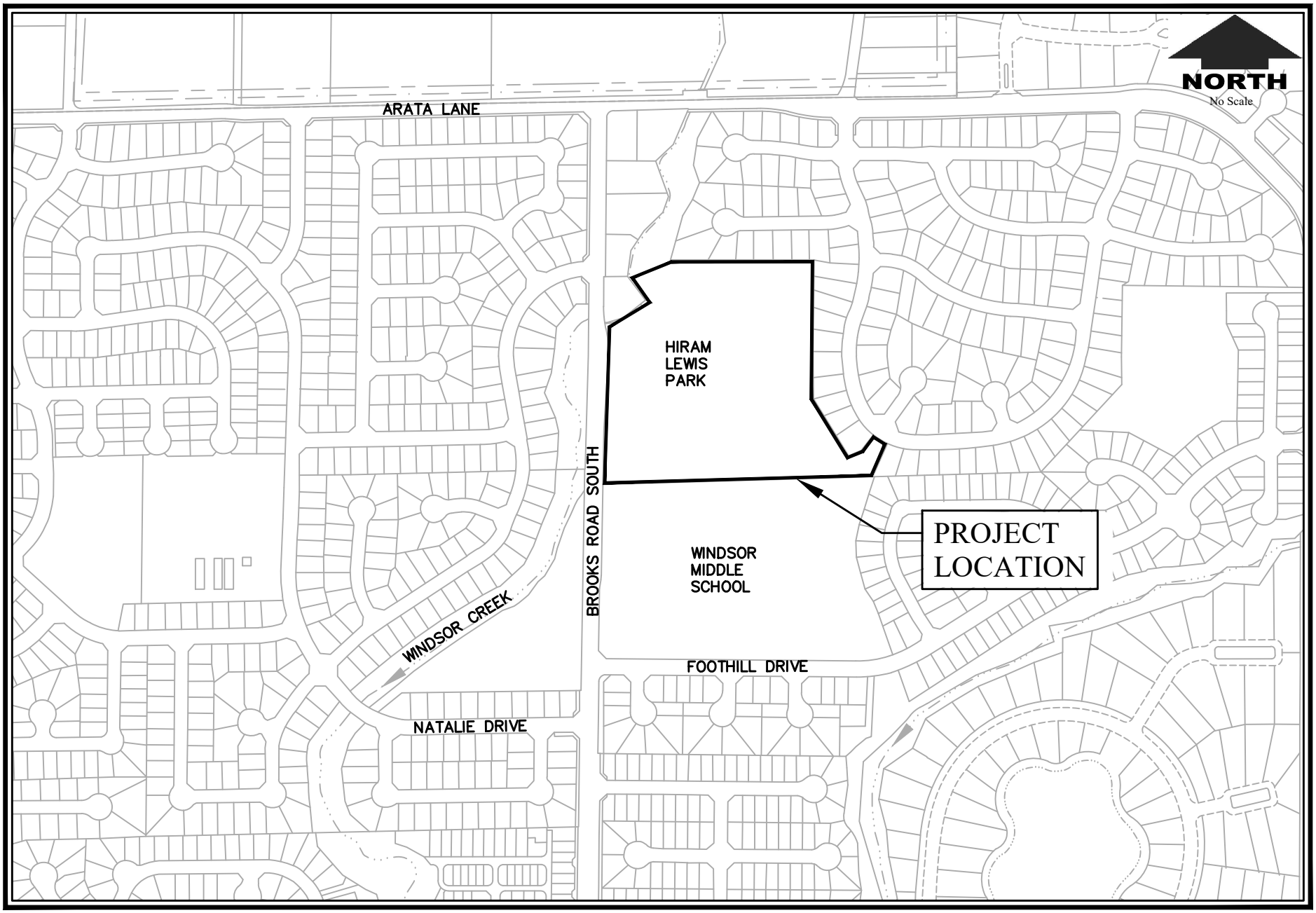
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
This project is consistent with the 2040 General Plan. PFS-9.20 Keiser Park Master Plan. The Town shall implement the Keiser Park Master Plan, based on community input, to accommodate an Aquatics Center, multi-generational Community Center, and expansion of parkland. PFS-9.5 Park Standard. The Town shall provide five acres of parkland per 1,000 population, in which 2.5 acres should be dedicated to neighborhood parks and 2.5 acres dedicated to community parks, in order to meet the community's needs for active and passive recreation.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Preparation	-	-		-					$ -
	Acquisition				-	1,000,000				$ 1,000,000
	Development	-	-					1,000,000		$ 1,000,000
		-	-		-					$ -
		-	-		-					$ -
	Total	$ -	$ -		$ -	$ 1,000,000	$ -	$ 1,000,000	$ -	$ 2,000,000
Funding Sources:	Park Development				-	500,000		500,000		$ 1,000,000
	Grant Funded				-	500,000		500,000		$ 1,000,000
	Total	$ -	$ -		$ -	$ 1,000,000	$ -	$ 1,000,000	$ -	$ 2,000,000
Estimated O & M										

Pickleball Courts at Hiram Lewis Park



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Pickleball Courts at Hiram Lewis Park

Project No: New

GL No: 010-74-25-21XX-4510-000

Project Description:
This project has been identified and supported by numerous residents. This would construct four new pickleball courts adjacent to the existing tennis courts at Hiram Lewis Community Park. These would be dedicated courts and would allow for the pickleball lines on the two current tennis courts to be removed. This project would also include drainage improvements within the entire area which would benefit both the tennis and new pickleball courts.

Department:
Parks and Recreation

Priority:

	Mandate
	Necessary
X	**Desirable**

Justification:
The Parks and Recreation Master Plan Recommendation R4.1-1: Determine potential locations for desired park elements including pickleball courts.

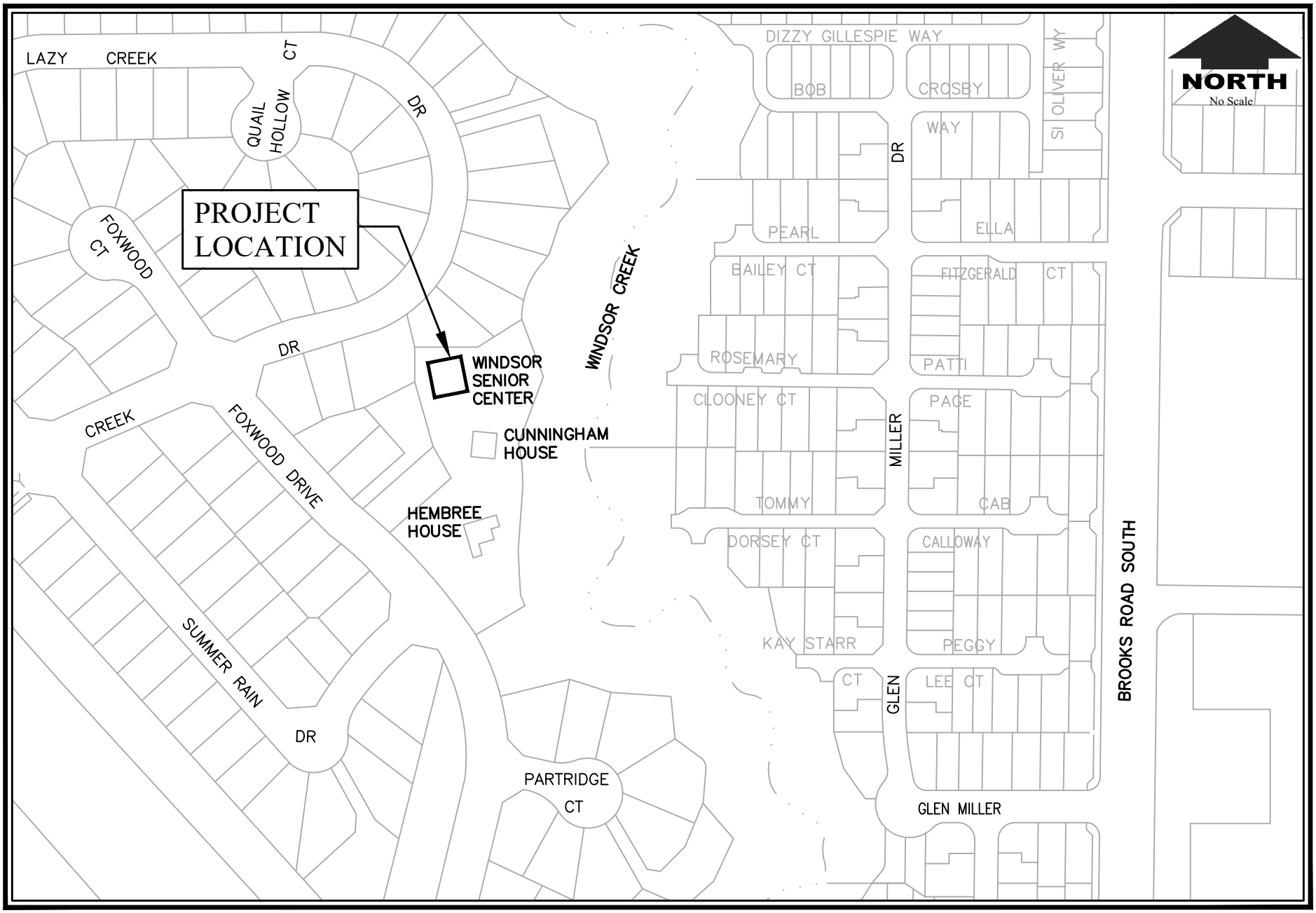
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
This project is consistent with the 2040 General Plan. PFS-9.7 Special Service Facilities. The Town shall provide special service facilities that serve a single recreation function, the recreational needs of a special population, and/or indoor recreational facilities. These facilities should be on or adjacent to parks or existing school sites. Facilities desirable in Windsor include Pickleball Courts.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design					-	25,000			$ 25,000
	Construction				-	-	-	175,000		$ 175,000
	Construction Management	-	-		-	-	-	26,250		$ 26,250
		-	-		-	-				$ -
	Total	$ -	$ -		$ -	$ -	$ 25,000	$ 201,250	$ -	$ 226,250
Funding Sources:	GF Donation and Grants					-	25,000	26,250		$ 51,250
	Park Development						-	175,000		$ 175,000
	Total	$ -	$ -		$ -	$ -	$ 25,000	$ 201,250	$ -	$ 226,250
Estimated O & M										

Senior Center Facility Improvements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Senior Center Facility Improvements

Project No: 2002

GL No: 186-76-25-2002-4510-000

Project Description:
These upgrades have been identified by staff as a necesity to keep up with the expanding programming needs at the Windsor Senior Center. This will include replacing flooring and baseboards in all of the main interior area, updating the layout and functionality of the lobby and reconfiguring the doors which divide the small rooms and large room for better access and sound barrier. Future phase of the facility update will include a kitchen renovation to bring it up to commericial standards and replacing the building roof.

Department:
Parks and Recreation

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
The Senior Center is a heavily used Town facility. The last major improvements occurred in 2012/2013 when the swimming pool was resurfaced, solor panels were added and the building was painted. This facility is due for improvements to increase fuctionality and program capacity.

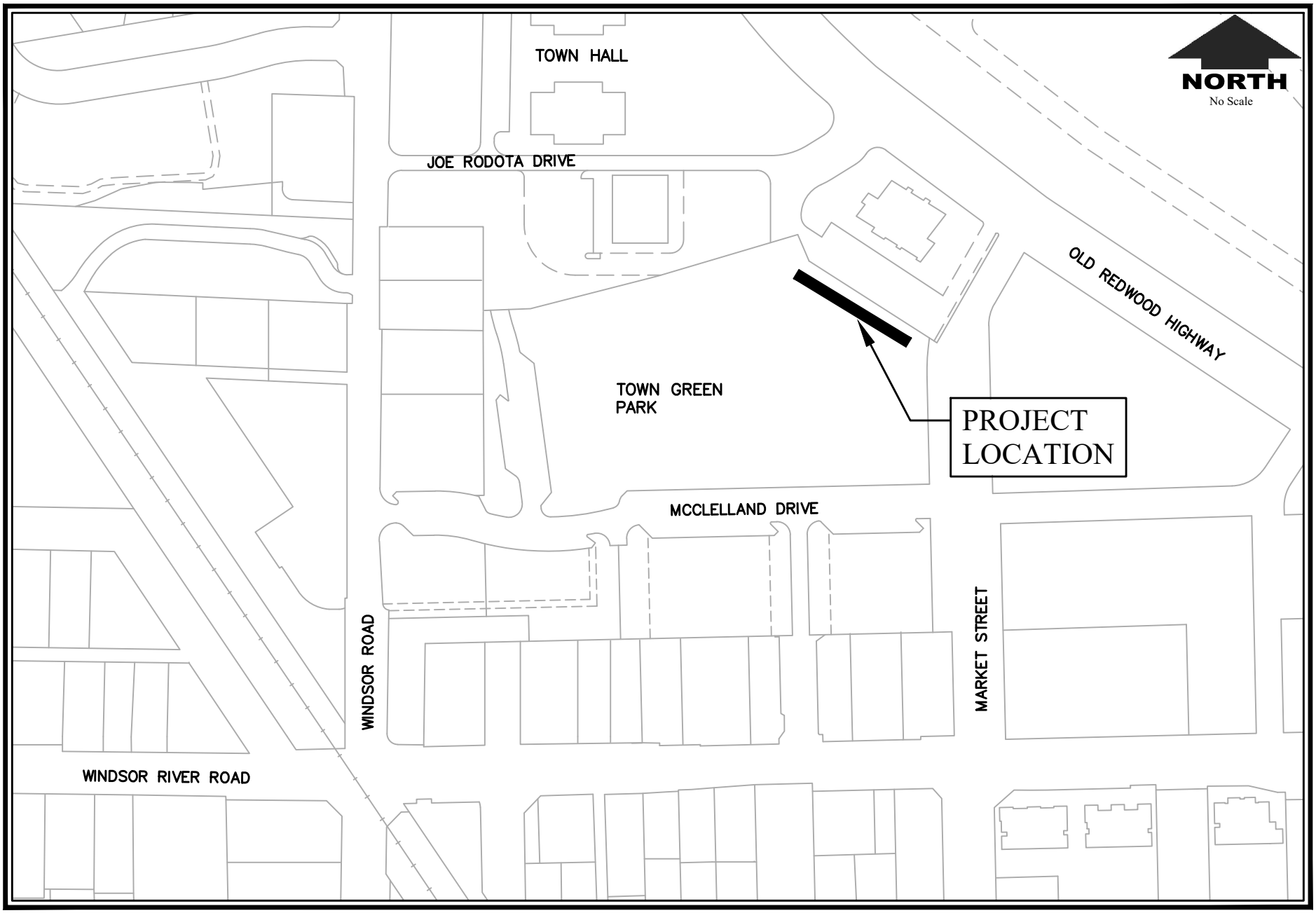
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
This project is consistent with the 2040 General Plan. PFS-9.6 Park Facilities. The Town shall encourage the development of facilities that foster active participation, are accessible, and affordable. PFS-9.7 Special Service Facilities. The Town shall provide special service facilities that serve a single recreation function, the recreational needs of a special population, and/or indoor recreational facilities. These facilities should be on or adjacent to parks or existing school sites.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design				15,000					$ 15,000
	Construction				175,000					$ 175,000
	Facility Roof	-	-		-		55,000			$ 55,000
	Kitchen Improvements	-	-		-		50,000			$ 50,000
	Total	$ -	$ -		$ 190,000	$ -	$ 105,000	$ -	$ -	$ 295,000
Funding Sources:	Capital Replacement				190,000		105,000			$ 295,000
										$ -
	Total	$ -	$ -		$ 190,000	$ -	$ 105,000	$ -	$ -	$ 295,000
Estimated O & M										

Town Green Arbor



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Town Green Arbor Improvements

Project No: 2103

GL No: 186-74-25-2103-4510-000

Project Description:
This project will include replacing decomposed grantite with stampted concrete or other non-permeable surface and replacing wood support posts and other wood beams. The non-permiable surface would prevent further damage to the renovated structure due to water and weather.

Department:
Parks and Recreation Department

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
This project has been identified by staff. The existing wood beams are beginning to show age and signs of wood rot due to long-term water damage.

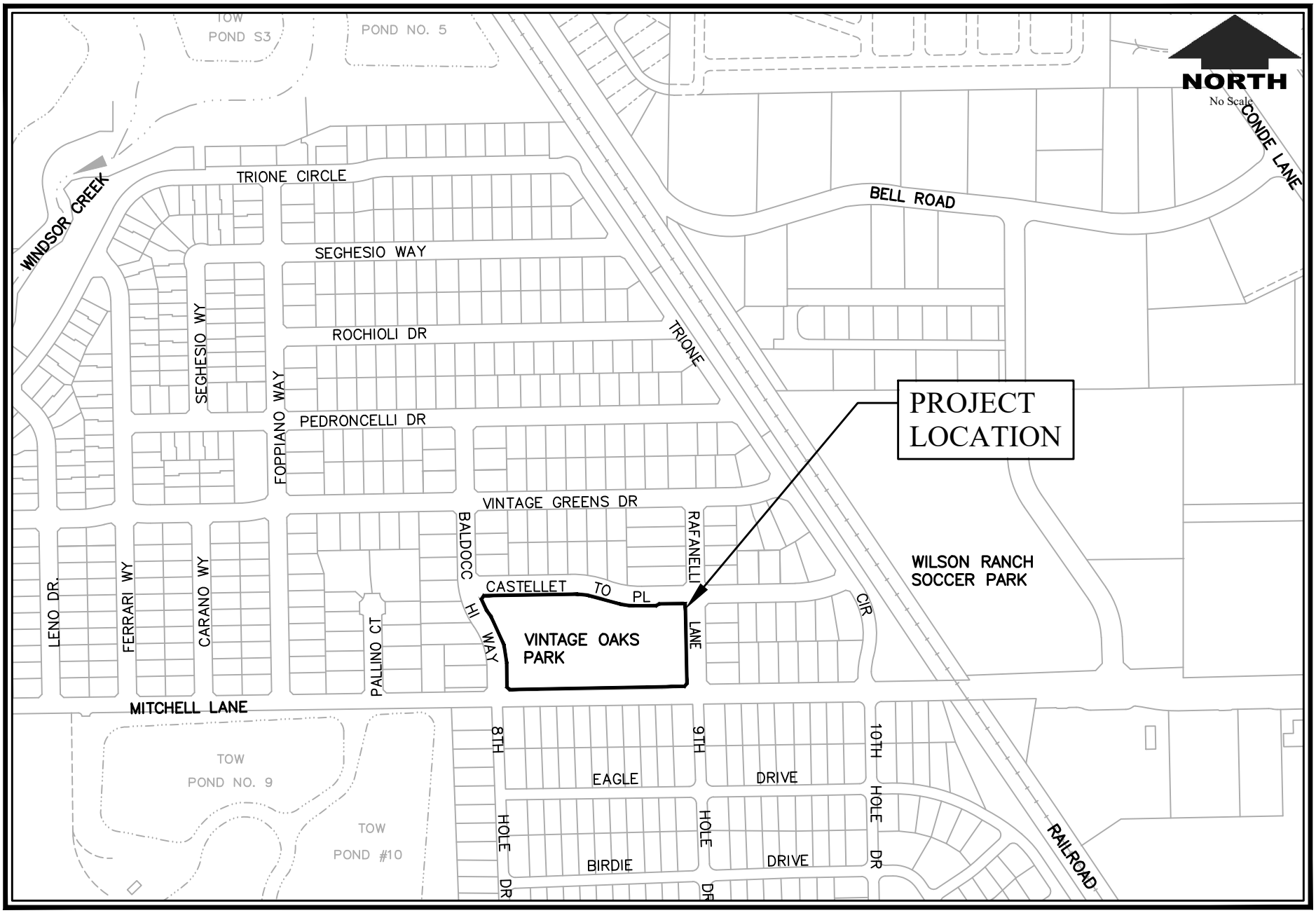
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
This project is consistent with the 2040 General Plan. PFS-9.16 Park Maintenance. The Town shall continue to increase maintenance efficiencies for parks and facilities.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Engineering and Design	-	-	-	10,000				$ 10,000
	Staining					60000			$ 60,000
	Construction			-		250,000			$ 250,000
	Construction Management	-	-			37,500			$ 37,500
		-	-	-					$ -
	Total	$ -	$ -	$ -	$ 10,000	$ 347,500	$ -	$ -	$ 357,500
Funding Sources:	Capital Replacement			-	10,000	347,500			$ 357,500
				-					$ -
	Total	$ -	$ -	$ -	$ 10,000	$ 347,500	$ -	$ -	$ 357,500
Estimated O & M									

Vintage Oaks Park Improvements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Vintage Oaks Park Improvements

Project No: New

GL No: XX

Project Description:
Design and install prefab single use restroom to serve the rental area, basketball court and playground. Design would include public outreach to neighbors and user groups.

Department:
Parks and Recreation Department

Priority:

	Mandate
	Necessary
X	**Desirable**

Justification:
This project was identified through the Park and Recreation Master Plan Update process. Recommendation R4.1-3 calls for neighborhood parks which draw from a larger service area and typically support longer use periods to be considered for a restroom.

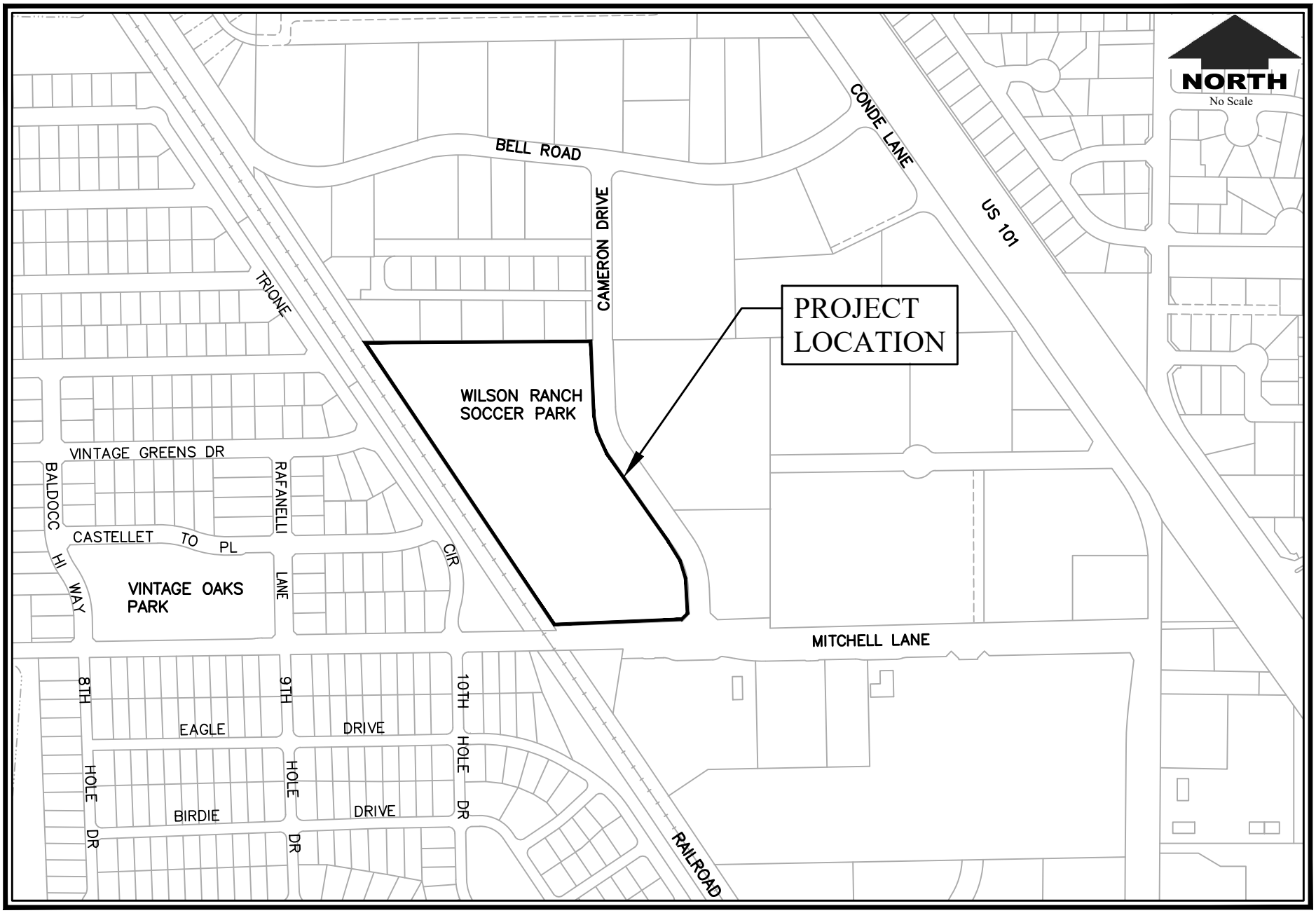
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
This project is consistent with the 2040 General Plan. PFS-9.6 Park Facilities. The Town shall encourage the development of facilities that foster active participation, are accessible, and affordable.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-	-			25,000		$ 25,000
	Outreach	-	-	-			1,000		$ 1,000
	Construction	-	-	-				250,000	$ 250,000
	Construction Management	-	-	-				37,500	$ 37,500
		-	-	-					$ -
	Total	$ -	$ -	$ -	$ -	$ -	$ 26,000	$ 287,500	$ 313,500
Funding Sources:	Park Development	-	-	-			26,000	287,500	$ 313,500
		-	-	-					$ -
	Total	$ -	$ -	$ -	$ -	$ -	$ 26,000	$ 287,500	$ 313,500
Estimated O & M									

Wilson Ranch Soccer Park LED Field Lighting



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Wilson Ranch Soccer Park LED Field Lighting

Project No: pf0048

GL No: 186-74-25-20XX-4510-000

Project Description:
Phase one is to convert the existing four sets of lights from HID to LED. Phase two is to install 3 additional sets (6 total) of lighting to the to the existing four (4) sets of lights at Wilson Ranch field to finish out the lighting of the park.

Department:
Parks and Recreation

Priority:

	Mandate
	Necessary
X	**Desirable**

Justification:
The Parks and Recreation Master Plan Recommendation R2.2-4: Add field lighting toWilson Ranch Soccer Park.

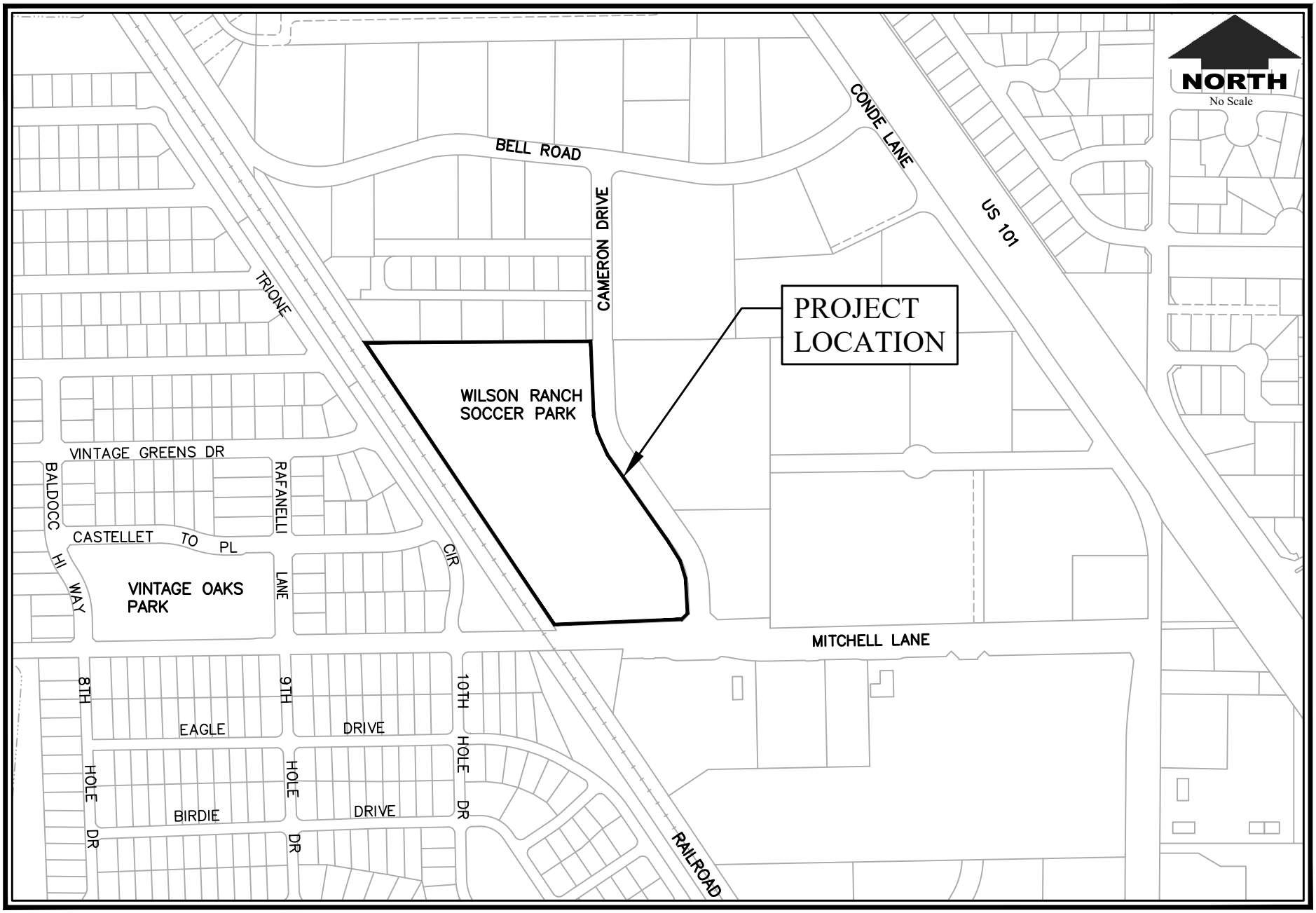
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
This project is consistent with the 2040 General Plan and the 2030 Parks and Recreation Master Plan. PFS-9.6 Park Facilities. The Town shall encourage the development of facilities that foster active participation, are accessible, and affordable. PFS-9.14 Park Revenue. The Town shall secure annual adequate funding for park maintenance, while considering revenue-generating opportunities in developing and managing park and recreation facilities.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Existing LED Conversion	-	-		-		280,000			$ 280,000
	Construction of new standards	-	-		-			400,000		$ 400,000
	Project Management/CM	-	-					60,000		$ 60,000
										$ -
										$ -
										$ -
	Total	$ -	$ -		$ -	$ -	$ 280,000	$ 460,000	$ -	$ 740,000
Funding Sources:	Capital Replacement	-	-		-		280,000			$ 280,000
	Park Development							460,000		$ 460,000
										$ -
										$ -
										$ -
	Total	$ -	$ -		$ -	$ -	$ 280,000	$ 460,000	$ -	$ 740,000
Estimated O & M										

Wilson Ranch Soccer Park Improvements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Wilson Ranch Soccer Park Improvements

Project No: New

GL No: XX

Project Description:
This project will install a playground, outdoor fitness equipment and a walking track to the park. Design process will include public outreach to park user groups and neighbors.

Department:
Parks and Recreation Department

Priority:

	Mandate
	Necessary
X	**Desirable**

Justification:
This project will complete the plans for the Wilson Ranch Soccer Park.

Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
This project is consistent with the 2040 General Plan. PFS-9.6 Park Facilities. The Town shall encourage the development of facilities that foster active participation, are accessible, and affordable. PFS-9.7 Special Service Facilities. The Town shall provide special service facilities that serve a single recreation function, the recreational needs of a special population, and/or indoor recreational facilities. These facilities should be on or adjacent to parks or existing school sites.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-	-			30,000		$ 30,000
	Outreach	-	-	-			2,000		$ 2,000
	Construction	-	-	-				350,000	$ 350,000
	Construction Management	-	-	-				52,500	$ 52,500
		-	-	-					$ -
	Total	$ -	$ -	$ -	$ -	$ -	$ 32,000	$ 402,500	$ 434,500
Funding Sources:	Park Development	-	-	-			32,000	402,500	$ 434,500
		-	-	-					$ -
	Total	$ -	$ -	$ -	$ -	$ -	$ 32,000	$ 402,500	$ 434,500
Estimated O & M									

STORM DRAINAGE PROJECTS

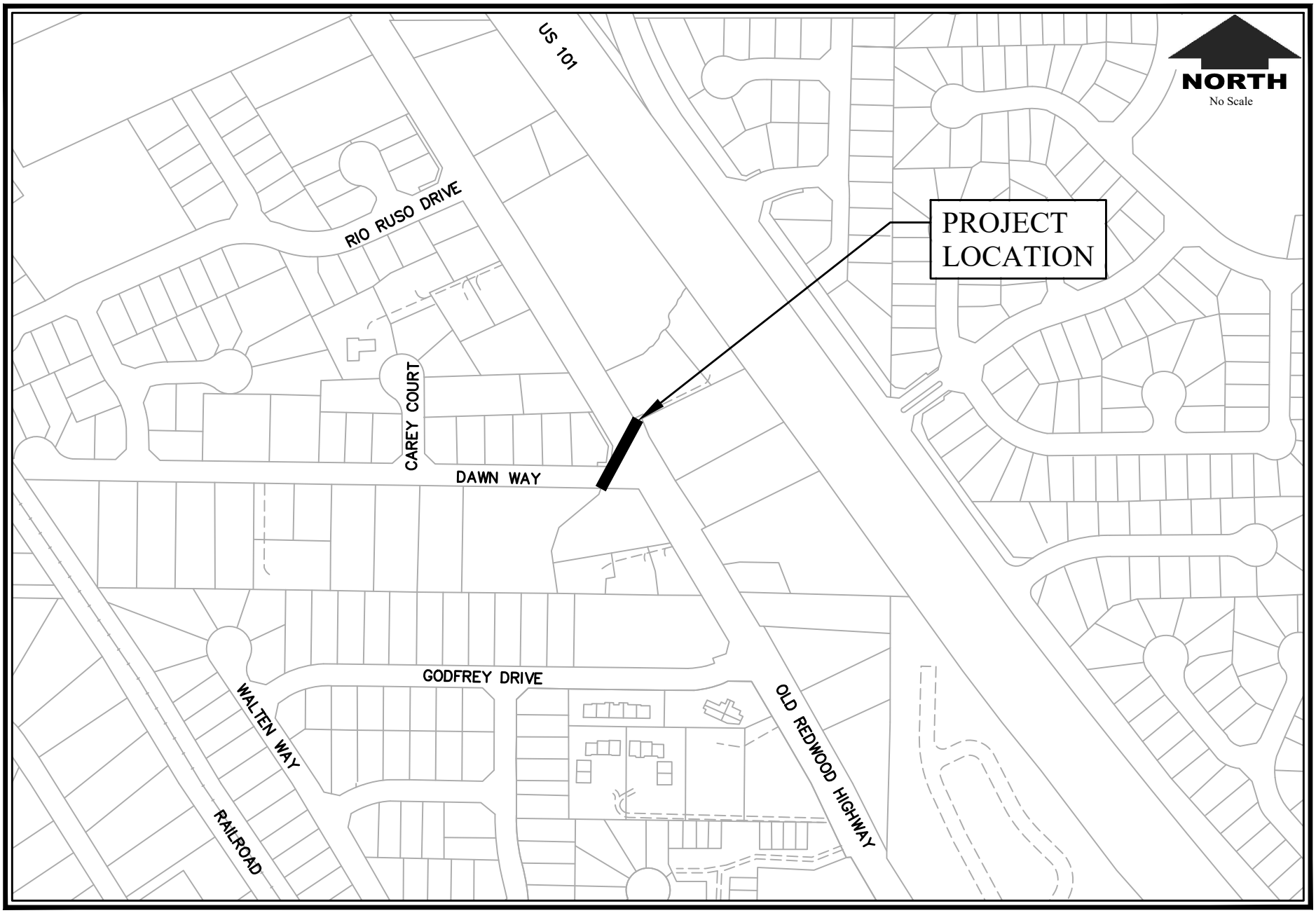


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APPROPRIATIONS PLAN SUMMARY FOR
STORM DRAINAGE PROJECTS

PROJECT	Page No.	Project No.	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	TOTAL
Old Redwood Highway at Dawn Way Drainage Improvements	SD - 3	8011	190,000	856,000	-	-	-	**$1,046,000**
Shiloh Road at Caletti Avenue Drainage Improvements	SD - 5	1812	45,000	209,000	-	-	-	**$254,000**
Shiloh Road/Pruitt Creek Twin Culvert Erosion Control	SD - 7	2020	45,000	83,400	-	-	-	**$128,400**
Starr Creek Tributary #5 South of Arata Lane Drainage Improvements	SD - 9	2120	-	263,000	1,214,000	-	-	**1,477,000**
Hall Park Detention Basin	SD - 11	2121	-	356,000	1,642,000	-	-	**$1,998,000**
Windsor Creek Flood Control Project	SD - 13	2122	-	65,000	393,000	2,414,000	-	**$2,872,000**
North of Arata Lane Drainage Improvements	SD - 15	New	-	-	-	547,000	5,720,000	**$6,267,000**
TOTAL APPROPRIATIONS			**$ 280,000**	**$ 1,832,400**	**$ 3,249,000**	**$ 2,961,000**	**$ 5,720,000**	**$14,042,400**

Old Redwood Highway at Dawn Way Drainage Improvements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Old Redwood Highway at Dawn Way Drainage Improvements

Project No: 8011

GL No: 230-63-25-8011-4510-000

Project Description:
Construction of approximately 140 linear feet of bypass conduits, improvements to the channel approach and drain inlets to increase the hydraulic capacity and performance, or alternative improvements achieving equivalent result.

Department:
Public Works - Engineering

Priority:

_____	**Mandate**
X	**Necessary**
_____	**Desirable**

Justification:
This project would mitigate runoff from upstream development, provide erosion control, and reduce flood hazards and potential property damage by increasing the capacity of the drainage infrastructure.

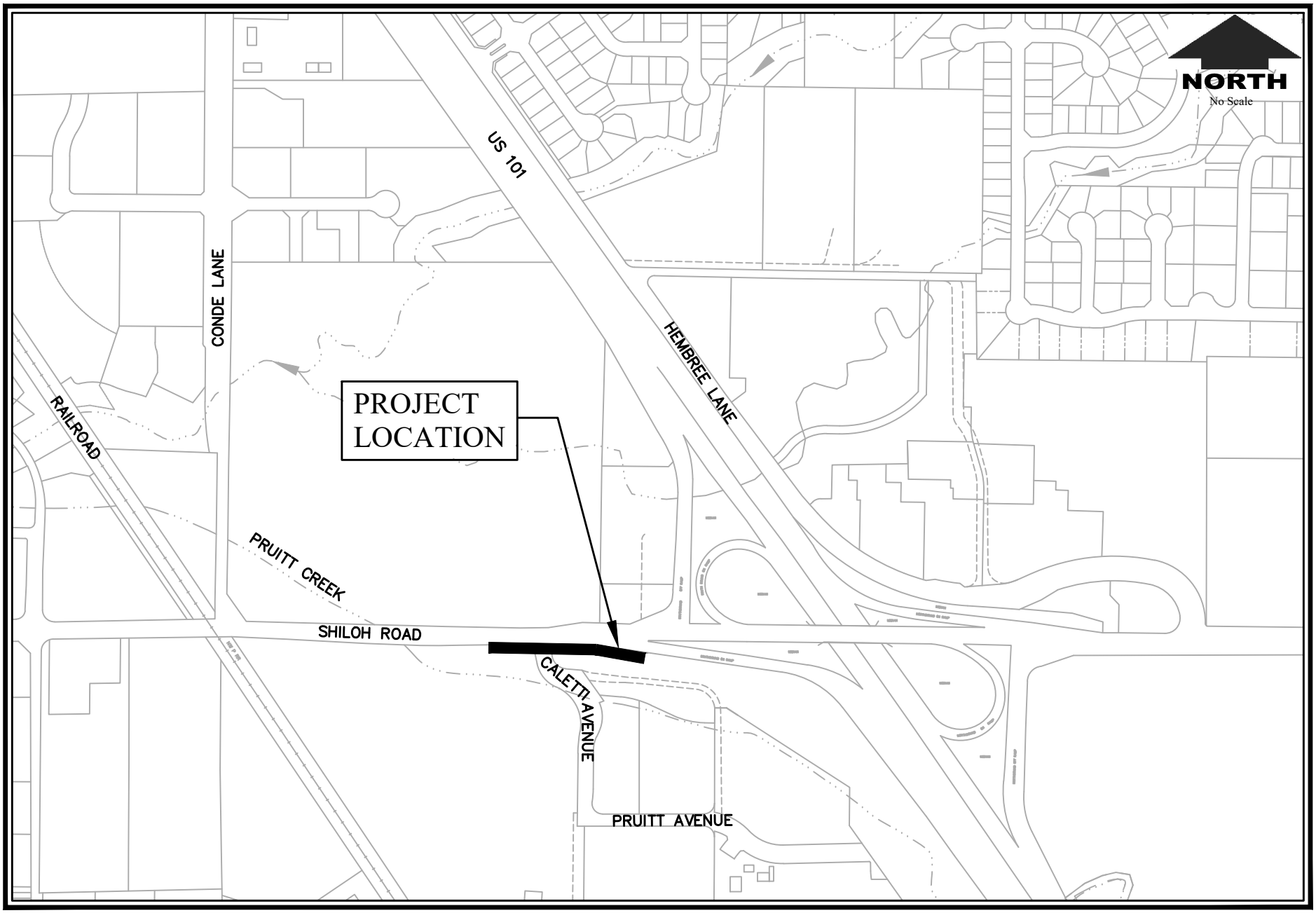
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
This Project is consistent with General Plan Public Facility and Service Policy PFS-4.2 - The Town shall develop and implement a Storm Drain Master Plan for the storm drainage system network that provides for sufficient capacity for stormwater runoff from existing and future development and addresses flooding in low-lying areas.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design/Environ	205,000	60,000		190,000	-	-	-	-	$ 190,000
	R/W Acquisition	15,000	-		-	-	-	-	-	$ -
	Construction	-	-		-	763,000	-	-	-	$ 763,000
	Construction Engineering	-	-		-	93,000	-	-	-	$ 93,000
	Admin/Legal	20,000	-		-	-	-	-	-	$ -
	Total	$ 240,000	$ 60,000		$ 190,000	$ 856,000	$ -	$ -	$ -	$ 1,046,000
Funding Sources:	Drainage Mitigation Fund	240,000	60,000		190,000	856,000	-	-	-	$ 1,046,000
	Total	$ 240,000	$ 60,000		$ 190,000	$ 856,000	$ -	$ -	$ -	$ 1,046,000
Estimated O & M										

Shiloh Road at Caletti Avenue Drainage Improvements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Shiloh Road at Caletti Avenue Drainage Improvements

Project No: 1812

GL No: 230-63-25-1812-4510-000

Project Description:
This project includes construction of an earthen berm to avoid roadway flooding, improvements to the approach channel and existing drain inlets to increase hydraulic capacity, and a new drop inlet and improved valley gutter, or alternative improvements achieving equivalent result.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
This project would mitigate runoff from upstream development, provide erosion control, and reduce flood hazards and potential property damage by increasing the capacity of the drainage infrastructure.

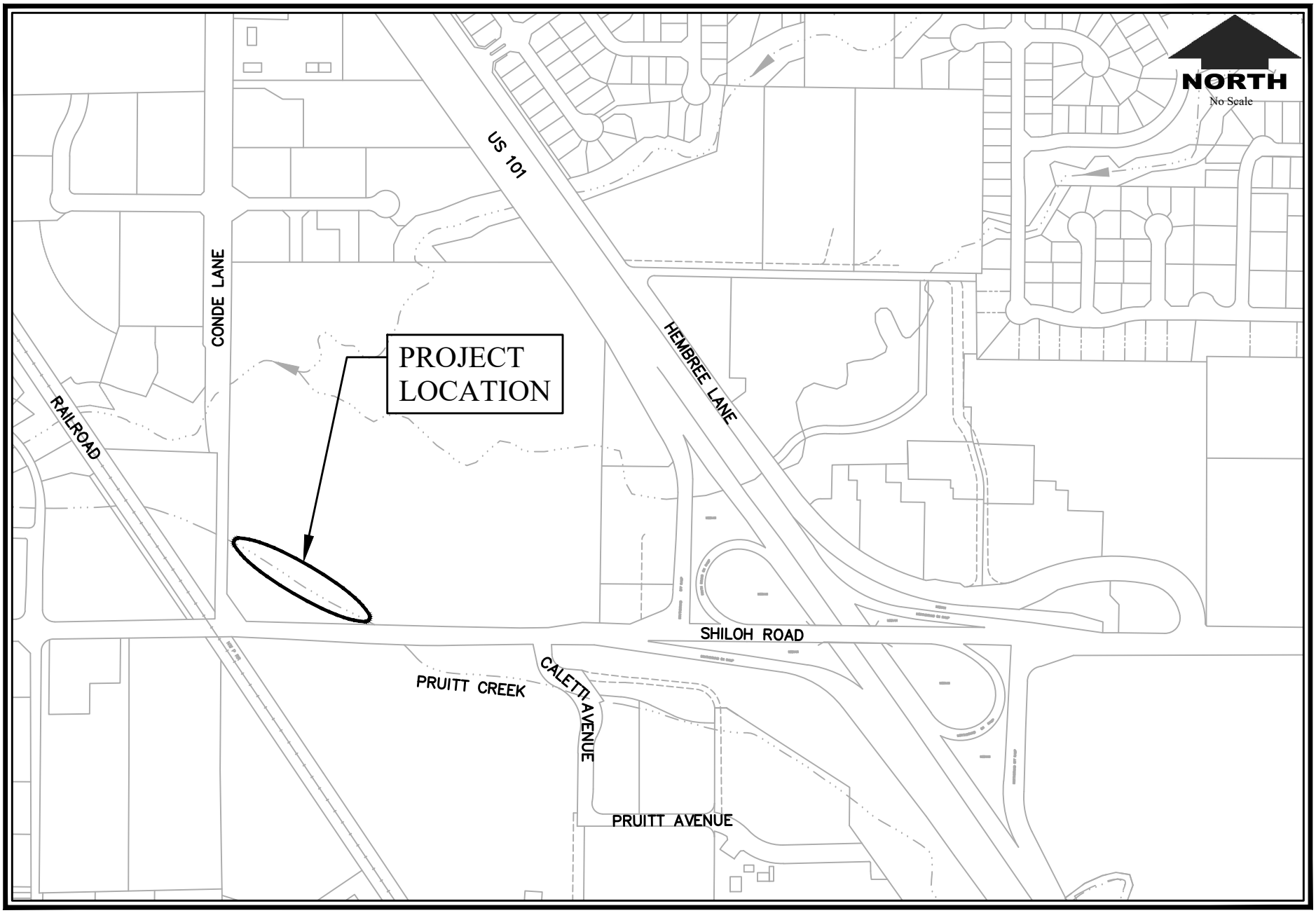
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
This Project is consistent with General Plan Public Facility and Service Policy PFS-4.2 - The Town shall develop and implement a Storm Drain Master Plan for the storm drainage system network that provides for sufficient capacity for stormwater runoff from existing and future development and addresses flooding in low-lying areas.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design/Environ	52,000	-		45,000	-	-	-	-	$ 45,000
	R/W Acquisition	-	-		-	-	-	-	-	$ -
	Construction	-	-		-	186,000	-	-	-	$ 186,000
	Construction Engineering	-	-		-	23,000	-	-	-	$ 23,000
	Admin/Legal	-	-		-	-	-	-	-	$ -
	Total	$ 52,000	$ -		$ 45,000	$ 209,000	$ -	$ -	$ -	$ 254,000
Funding Sources:	Drainage Mitigation Fund	52,000	-		45,000	209,000	-	-	-	$ 254,000
	Total	$ 52,000	$ -		$ 45,000	$ 209,000	$ -	$ -	$ -	$ 254,000
Estimated O & M										

Shiloh Road/Pruitt Creek Twin Culvert Erosion Control



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Shiloh Road/Pruitt Creek Twin Culvert Erosion Control

Project No: 2020

GL No: 230-63-25-2020-4510-000

Project Description:
This project includes improvements to Pruitt Creek along the north side of Shiloh Road and the east side of Conde Lane to decrease scouring and undercutting of the roadways. The project includes obtaining necessary permits, including Streambed Alteration Agreement, US Army Corps of Engineers Section 404 Permit, and the Regional Water Quality Control Board Section 401 Water Quality Certification.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
The velocity of Pruitt Creek during storm events in this vicinity is causing a stream bank erosion and undercutting the roadways. Erosion control measures are needed to protect the road to avoid the need for future road repairs. The project would also protect the riparian corridor and enhance habitat.

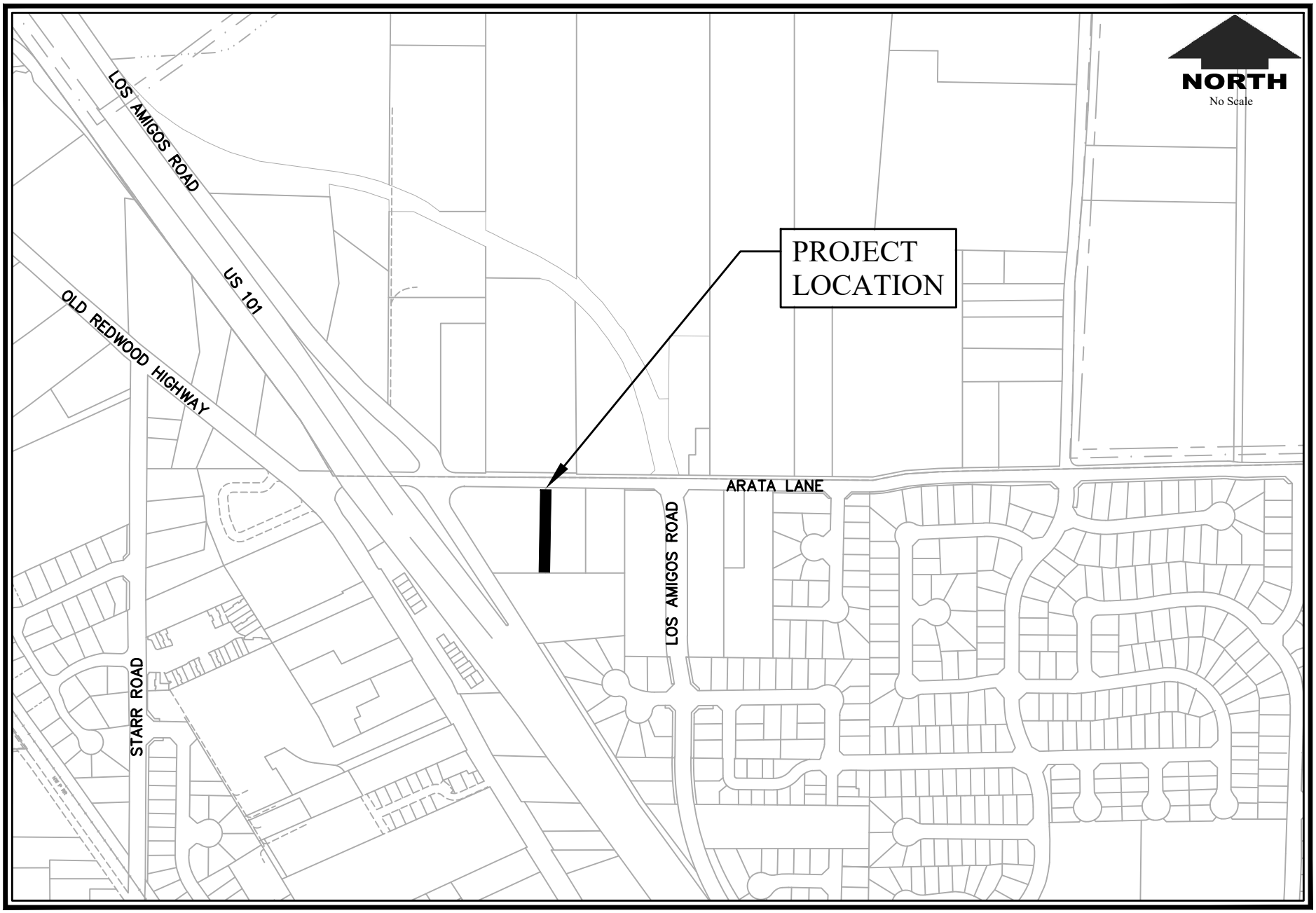
General Plan Consistency:
This Project is consistent with General Plan Public Facility and Service Policy PFS-4.2 - The Town shall develop and implement a Storm Drain Master Plan for the storm drainage system network that provides for sufficient capacity for stormwater runoff from existing and future development and addresses flooding in low-lying areas; and, PFS-4.5 The Town shall develop and implement policies that support erosion control and reduce water quality impacts resulting from grading and construction activities.

Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design/Environ	-	-		45,000	-	-	-	-	$ 45,000
	R/W Acquisition	-	-		-	-	-	-	-	
	Construction	-	-		-	74,000	-	-	-	$ 74,000
	Construction Engineering	-	-		-	9,400	-	-	-	$ 9,400
	Admin/Legal	-	-		-	-	-	-	-	$ -
	Total	$ -	$ -		$ 45,000	$ 83,400	$ -	$ -	$ -	$ 128,400
Funding Sources:	Drainage Mitigation Fund	-	-		45,000	83,400	-	-	-	$ 128,400
	Total	$ -	$ -		$ 45,000	$ 83,400	$ -	$ -	$ -	$ 128,400
Estimated O & M										

Starr Creek Tributary #5 South of Arata Lane Drainage Improvements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Starr Creek Tributary #5 South of Arata Lane Drainage Improvements

Project No: 2120

GL No: 230-63-25-2120-4510-000

Project Description:
This project includes construction of a detention basin on Town property located south of Arata Lane near Highway 101, improvements to storm drain inlet structures to increase hydraulic performance and reduce flooding across Arata Lane and downstream (or alternative improvements achieving equivalent results). A feasibility study will be conducted in the first year of the project.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
This project would mitigate runoff from upstream development, provide erosion control, and reduce flood hazards and potentail property damage by improving hydraulic performance. Co-benefits of this project include groundwater infiltration that could enhance water supplies. Funding through the Prop 1 Stormwater Grant Program may be available.

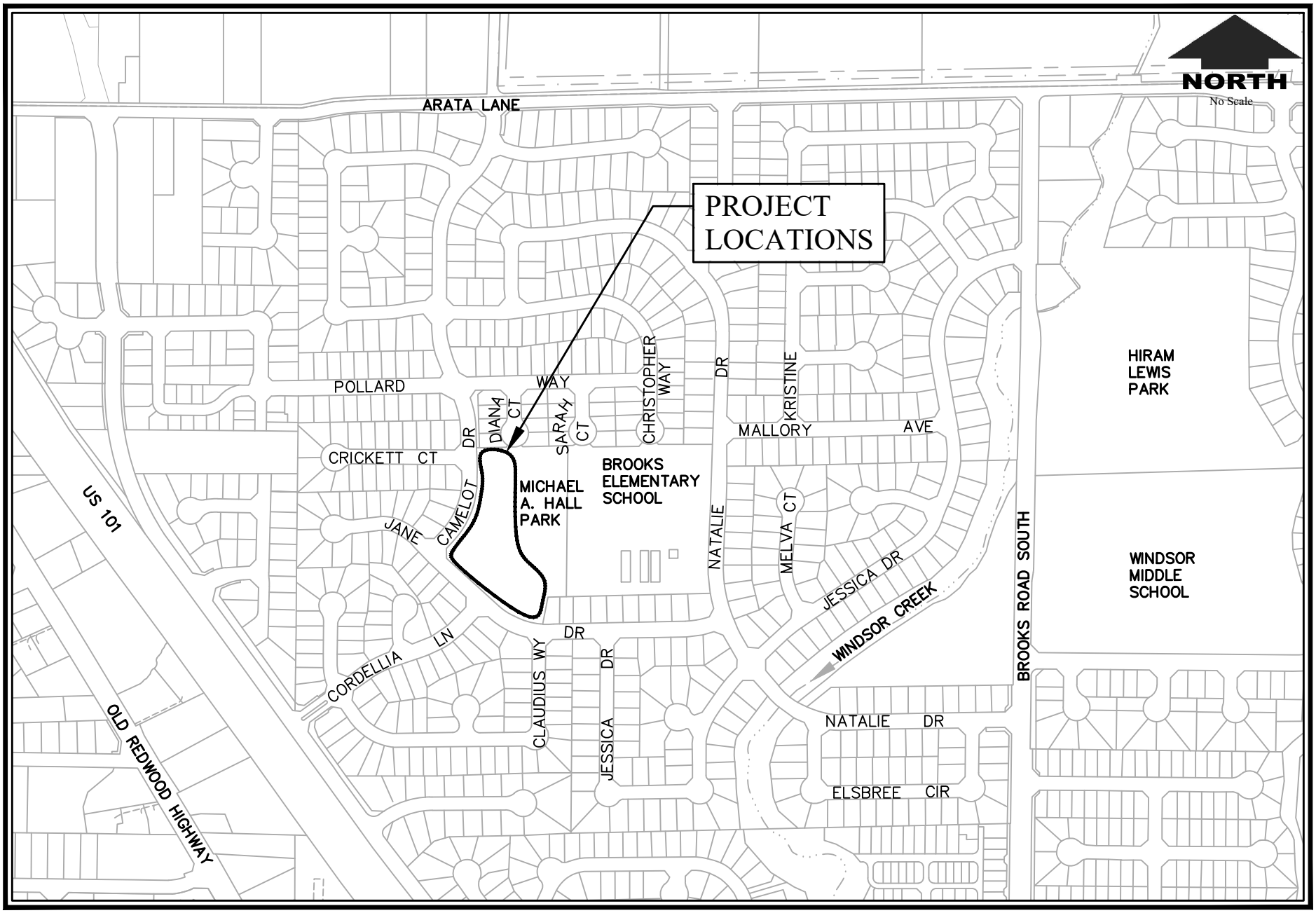
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
This Project is consistent with General Plan Public Facility and Service Policy PFS-4.2 - The Town shall develop and implement a Storm Drain Master Plan for the storm drainage system network that provides for sufficient capacity for stormwater runoff from existing and future development and addresses flooding in low-lying areas.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design/Environ	-	-		-	263,000	-	-	-	$ 263,000
	R/W Acquisition	-	-		-	-	-	-	-	$ -
	Construction	-	-		-	-	1,083,000	-	-	$ 1,083,000
	Construction Engineering	-	-		-	-	131,000	-	-	$ 131,000
	Admin/Legal	-	-		-	-	-	-	-	$ -
	Total	$ -	$ -		$ -	$ 263,000	$ 1,214,000	$ -	$ -	$ 1,477,000
Funding Sources:	Drainage Mitigation Fund	-	-		-	263,000	1,214,000	-	-	$ 1,477,000
	Total	$ -	$ -		$ -	$ 263,000	$ 1,214,000	$ -	$ -	$ 1,477,000
Estimated O & M										

Hall Park Detention Basin



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Hall Park Detention Basin

Project No: 2121

GL No: 230-63-25-2121-4510-000

Project Description:
This project is the construction of a detention pond at Hall Park.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
The purpose of this project is to detain runoff during large storm events for the purpose of reducing downstream flood hazards and potential property damage (in particular, at Old Redwood Highway and Dawn Way). Co-benefits of this project include groundwater infiltration that could enhance water supplies. Funding through the Prop 1 Stormwater Grant Program may be available.

Appropriations beyond the 5 year program period are needed to complete project:

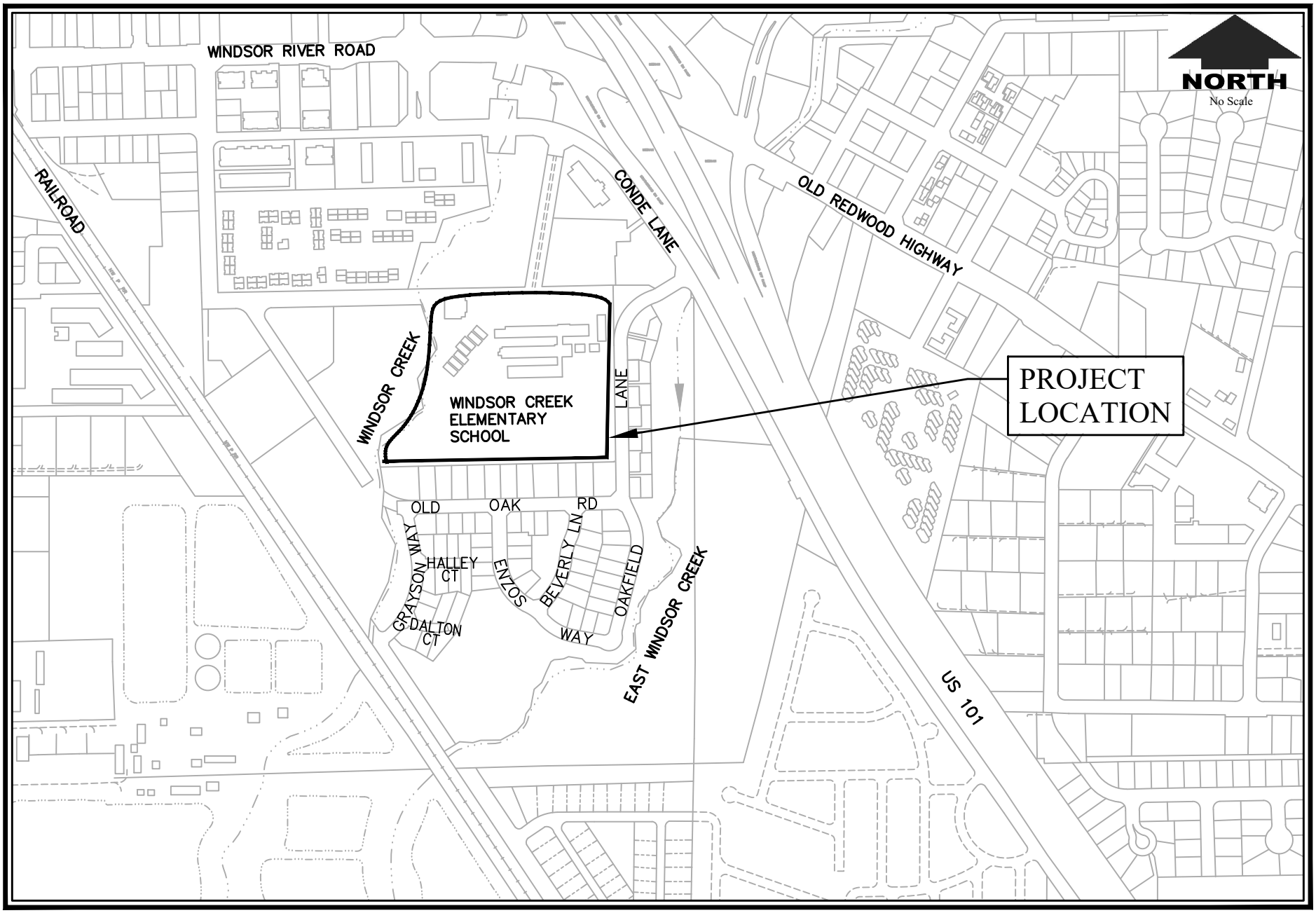
YES ( )
NO (X)

General Plan Consistency:

This Project is consistent with General Plan Public Facility and Service Policy PFS-4.2 - The Town shall develop and implement a Storm Drain Master Plan for the storm drainage system network that provides for sufficient capacity for stormwater runoff from existing and future development and addresses flooding in low-lying areas.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design/Environ	-	-		-	356,000	-	-	-	$ 356,000
	R/W Acquisition	-	-		-	-	-	-	-	$ -
	Construction	-	-		-	-	1,465,000	-	-	$ 1,465,000
	Construction Engineering	-	-		-	-	177,000	-	-	$ 177,000
	Admin/Legal	-	-		-	-	-	-	-	$ -
	Total	$ -	$ -		$ -	$ 356,000	$ 1,642,000	$ -	$ -	$ 1,998,000
Funding Sources:	Drainage Mitigation Fund	-	-		-	356,000	1,642,000	-	-	$ 1,998,000
	Total	$ -	$ -		$ -	$ 356,000	$ 1,642,000	$ -	$ -	$ 1,998,000
Estimated O & M										

Windsor Creek Flood Control Project



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Windsor Creek Flood Control Project

Project No: 2122

GL No: 230-63-25-2122-4510-000

Project Description:
This project includes construction of a detention basin at the former Windsor Creek Elementary School site and may include additional floodwalls or berms along Windsor Creek or East Windsor Creek and alternative improvements achieving equivalent results to address flooding from Bell Road to Conde Land. A detention basin will address both existing and future needs and is used for construction cost estimation. Cost of land aquisition is not included in the fee estimate. A feasibility study is anticipated in FY20/21 to use the Storm Drain Master Plan model to develop the most feasible alternative.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
This project would mitigate runoff from upstream development and reduce flood hazards of existing nearby residential areas. The project would reduce erosion and sedimentation and could proce creek bank protection depending on final design.

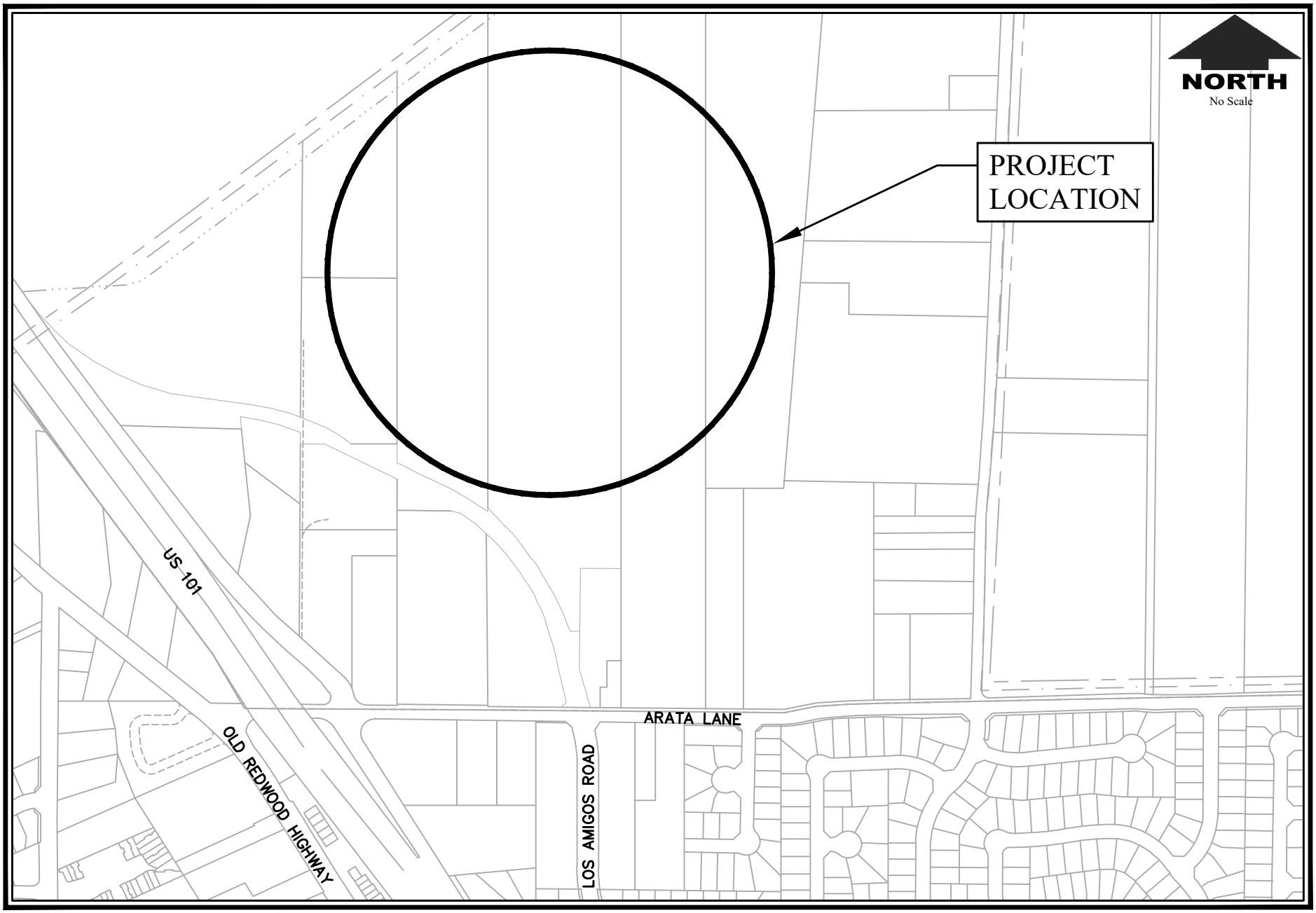
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
This Project is consistent with General Plan Public Facility and Service Policy PFS-4.2 - The Town shall develop and implement a Storm Drain Master Plan for the storm drainage system network that provides for sufficient capacity for stormwater runoff from existing and future development and addresses flooding in low-lying areas.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design/Environ	-	-		-	65,000	393,000	-	-	$ 458,000
	R/W Acquisition	-	-		-	-	-	-	-	$ -
	Construction	-	-		-	-	-	2,099,000	-	$ 2,099,000
	Construction Engineering	-	-		-	-	-	315,000	-	$ 315,000
	Admin/Legal	-	-		-	-	-	-	-	$ -
	Total	$ -	$ -		$ -	$ 65,000	$ 393,000	$ 2,414,000	$ -	$ 2,872,000
Funding Sources:	Drainage Mitigation Fund	-	-		-	65,000	393,000	2,414,000	-	$ 2,872,000
	Total	$ -	$ -		$ -	$ 65,000	$ 393,000	$ 2,414,000	$ -	$ 2,872,000
Estimated O & M										

North of Arata Lane Drainage Improvements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
North of Arata Lane Drainage Improvements

Project No: New

GL No: XX

Project Description:
This project consists of the construction of a detention basin and associated drainage system in the North of Arata area which currently in the annexation process and is planned for development. The project may consist of one large detention basin or multiple smaller basins. The project is scheduled in the CIP timeline to align with development of the area to the North of Arata Lane.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
This project would mitigate runoff from upstream development, provide erosion control, and reduce flood hazards and potential property damage by increasing the capacity of the drainage infrastructure. Co-benefits of this project include groundwater infiltration which could enhance future water supplies. Funding through the Prop 1 Stormwater Grant Program may be available.

Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
This Project is consistent with General Plan Public Facility and Service Policy PFS-4.2 - The Town shall develop and implement a Storm Drain Master Plan for the storm drainage system network that provides for sufficient capacity for stormwater runoff from existing and future development and addresses flooding in low-lying areas.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design/Environ	-	-		-	-	-	547,000	-	$ 547,000
	R/W Acquisition	-	-		-	-	-	-	-	$ -
	Construction	-	-		-	-	-	-	5,200,000	$ 5,200,000
	Construction Engineering	-	-		-	-	-	-	520,000	$ 520,000
	Admin/Legal	-	-		-	-	-	-	-	$ -
	Total	$ -	$ -		$ -	$ -	$ -	$ 547,000	$ 5,720,000	$ 6,267,000
Funding Sources:	Drainage Mitigation Fund	-	-		-	-	-	547,000	3,720,000	$ 4,267,000
	Developer contribution (TBD)								2,000,000	$ 2,000,000
	Total	$ -	$ -		$ -	$ -	$ -	$ 547,000	$ 5,720,000	$ 6,267,000
Estimated O & M										

TRANSPORTATION PROJECTS

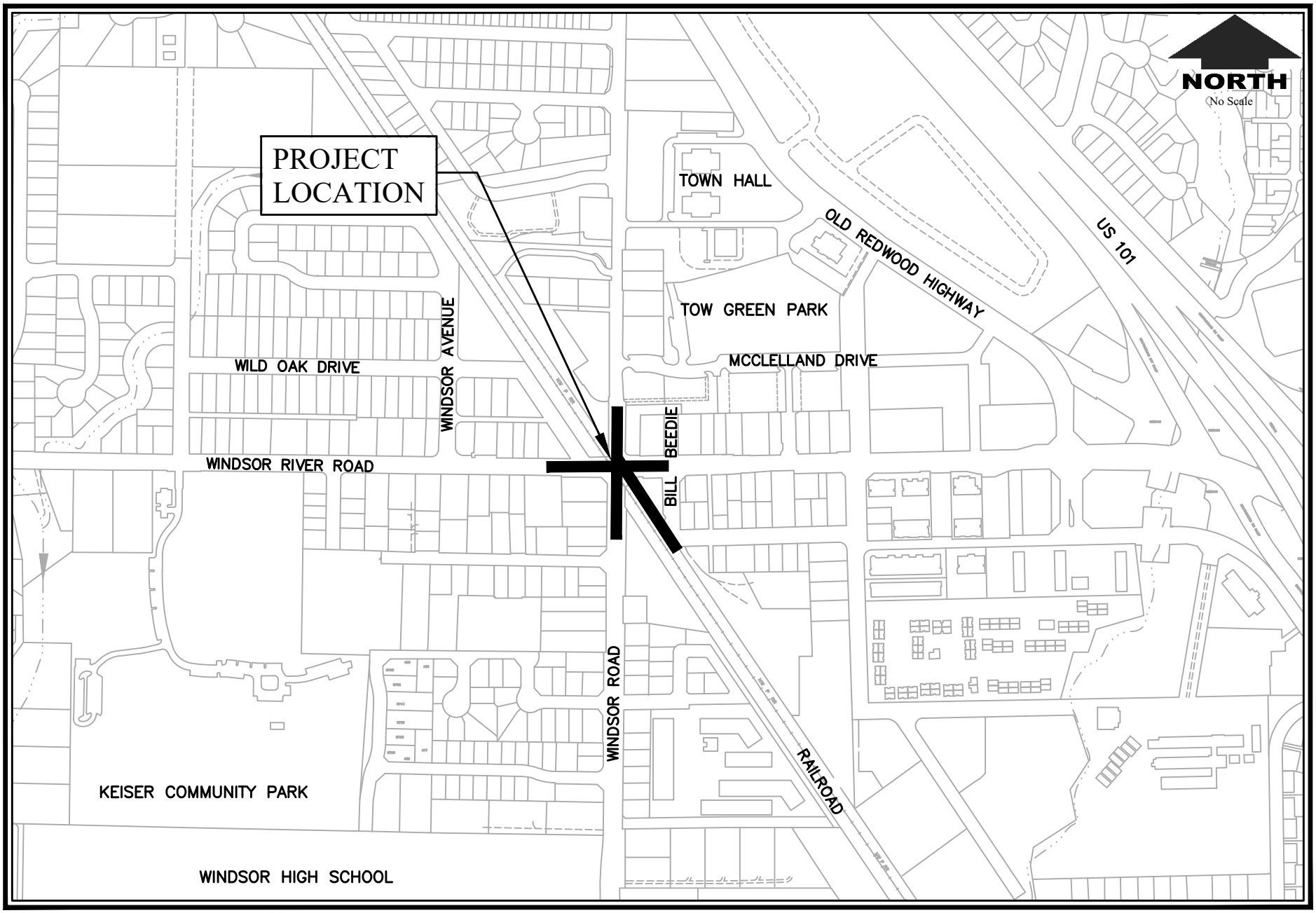


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APPROPRIATIONS PLAN SUMMARY FOR TRANSPORTATION PROJECTS

PROJECT	Page No.	Project No.	2019-20	2020-2021	2021-2022	2022-2023	2023-2024	2019-2024
Windsor River Road/Windsor Road Intersection Improvements	T - 3	1809	600,000	9,702,588	-	-	-	**$ 10,302,588**
Public Works Department Operations Center Upgrade	T - 5	1821/1825	16,000	-	-	-	-	**$ 16,000**
Starr Road Sidewalk Improvements from Vivian Court to Windsor River Road	T - 7	1804	271,000	-	-	-	-	**$ 271,000**
Shiloh Road Left Turn Intersection Improvements at Caletti Avenue	T - 9	1805	150,000	-	220,000	1,553,000	-	**$ 1,923,000**
Crosswalk Enhancements at Brooks Road South and US 101 Northbound On-ramp	T - 11	1901	212,000	-	-	-	-	**$ 212,000**
FY 2019-2021 Town Wide Street Resurfacing	T - 13	2040	610,000	710,000	-	-	-	**$ 1,320,000**
Faught Creek Trail Improvements from Victory Lane to Old Redwood Highway	T - 15	2041	205,000	-	-	-	-	**$ 205,000**
Starr Road Sidewalk Improvements South of Starr View Drive	T - 17	2042	155,000	-	-	-	-	**$ 155,000**
Arata Lane Interchange Phase 2B for Los Amigos Road Realignment	T - 19	1812	855,000	-	3,915,000	-	-	**$ 4,770,000**
Arata Lane Interchange Phase 2C for Northbound On-Ramp	T - 21	New	-	-	355,000	100,000	400,000	**$ 855,000**
Corporation Yard Pavement Maintenance	T - 23	New	-	-	400,000	-	-	**$ 400,000**
Crosswalk Enhancement at Brooks Road South at Natalie Drive	T - 25	New	-	-	247,000	-	-	**$ 247,000**
Downtown Pedestrian & Bicycle Crossing of US 101 Phase 1	T - 27	New	-	-	550,000	150,000	900,000	**$ 1,600,000**
Jaguar Way Extension from Windsor Road to Starr Road	T - 29	New	-	-	1,295,000	7,255,000	-	**$ 8,550,000**
Old Redwood Highway Bridges Replacement	T - 31	New	-	-	202,000	-	-	**$ 202,000**
Old Redwood Highway from Starr Road to Arata Lane Pedestrian Improvements	T - 33	New	-	-	230,000	-	-	**$ 230,000**
Safe Routes to School Crosswalk and Sidewalk Improvements	T - 35	New	-	-	200,000	200,000	200,000	**$ 600,000**
Downtown Pedestrian & Bicycle Crossing of US 101 Phase 2	T - 37	New	-	-	-	960,000	100,000	**$ 1,060,000**
US 101 Interchange Improvements at Shiloh Road	T - 39	New	-	-	-	300,000	50,000	**$ 350,000**
Arata Lane Interchange Phase 2D for Highway 101 Overpass Improvements	T - 41	New	-	-	-	-	300,000	**$ 300,000**
FY 2021-24 Town Wide Street Resurfacing	T - 43	New	-	-	1,200,000	1,200,000	1,200,000	**$ 3,600,000**
TOTAL APPROPRIATIONS			**$ 3,074,000**	**$ 10,412,588**	**$ 8,814,000**	**$ 11,718,000**	**$ 3,150,000**	**$ 37,168,588**

Windsor River Road/Windsor Road Intersection Improvements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Windsor River Road/Windsor Road Intersection Improvements

Project No: 1809

GL No: 111-63-25-1809-4510-000

Project Description:
Design Phase for the Windsor River Road/Windsor Road intersection improvements. In February 2019, Council selected to construct a roundabout at this intersection (versus an enhanced traffic signal).
* One Bay Area Grant (OBAG) funding in the amount of $3 million - tentatively available for construction costs on November 1, 2020.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
The California Public Utilities Commission (CPUC) has identified a number of improvements that are needed with the return of rail service. The pedestrian crosswalks are required to be located to the outside of the railroad gates as well as other pedestrian crossing safety improvements. The uniqueness of the intersection with the railroad crossing diagonally through the center makes a roundabout solution a preferred solution (as stated by the CPUC) over a signalized intersection. The project falls within the Station Area/Downtown Specific Plan. The project is consistent with the Specific Plan goals and policies for pedestrian/bike connectivity and improved sidewalks/streetscapes. The project was evaluated in the ITS Pedestrian Safety Assessment.

Appropriations beyond the 5 year program period are needed to complete project:

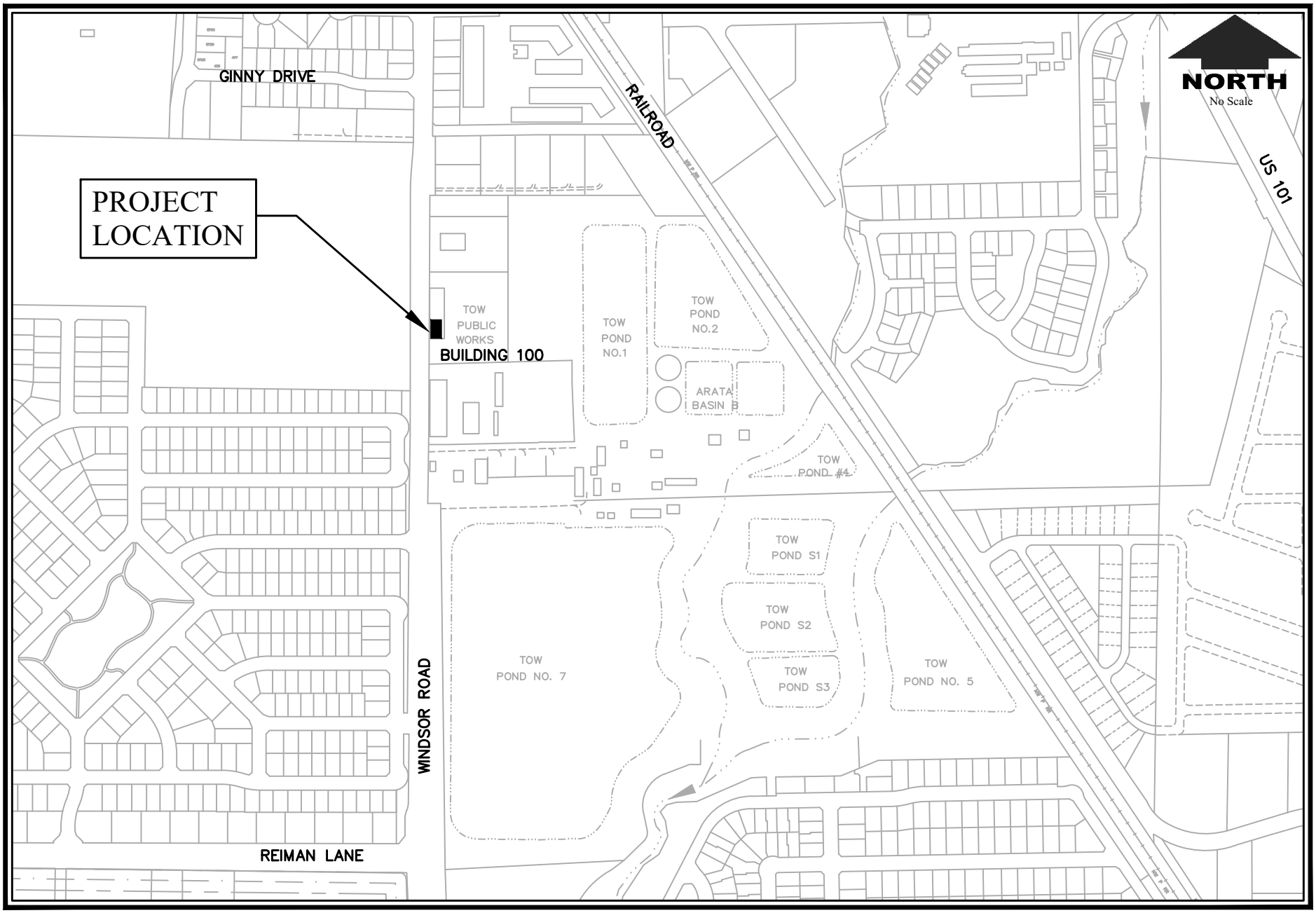
YES ( )
NO (X)

General Plan Consistency:

The Project is consistent with General Plan Transportation Policies including Multimodal Circulation System Policy M-1.1 Multimodal Transportation System - the Town shall continue to implement a multimodal transportation system that connects residents to activity centers throughout and near town, such as commercial centers and corridors, employment centers, the SMART train stop, the airport, schools, parks, recreation areas, and other attraction

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Prelim/Final Design/Permit	700,000	596,709	600,000		-	-	-	$ 600,000
	Construction	-	-	-	7,660,490	-	-	-	$ 7,660,490
	Construction Management	-	-	-	1,532,098	-	-	-	$ 1,532,098
	Project Management	-	-	-		-	-	-	$ -
	Legal Services/Admin	-	-	-	10,000	-	-	-	$ 10,000
	Util Reloc/ROW	-	-	-	500,000	-	-	-	$ 500,000
	Total	$ 700,000	$ 596,709	$ 600,000	$ 9,702,588	$ -	$ -	$ -	$ 10,302,588
Funding Sources:	Transp. Grant Fund (OBAG	-	-	-	3,000,000	-	-	-	$ 3,000,000
	General Fund	700,000	596,709	-	-	-	-	-	$ -
	Transp. Grant Fund: (Bond Proceeds)	-	-	600,000	6,702,588	-	-	-	$ 7,302,588
									$ -
									$ -
	Total	$ 700,000	$ 596,709	$ 600,000	$ 9,702,588	$ -	$ -	$ -	$ 10,302,588
Estimated O & M:									

Public Works Department Operations Center Upgrade



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Public Works Department Operations Center Upgrade

Project No: 1821/1825
GL No: 188-63-00-0000-4510-000
GL No: 430-82-25-1821-4510-000
GL No: 460-83-25-1825-4510-000

Project Description:
Upgrade existing training room in Building 100 as Department Operations Center (DOC) to respond emergencies that affect Town infrastructure. This DOC will be a satellite operations center to the Town-wide EOC located in Fire Station 1. The work will include communications and facilities upgrades to support DOC uses. The final phase of improvements in FY 2019-20 is the completion of the communications upgrades.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
The DOC is an improvement to better respond to emergencies and disasters that require the activation of emergency response procedures. This improvement is appropriate under the Town's emergency operating procedures and will better support the Town's needs during emergencies and disasters (in particular, flood and earthquakes). The project is split 34% to General Fund and 33% each to Water and Water Rec funds.

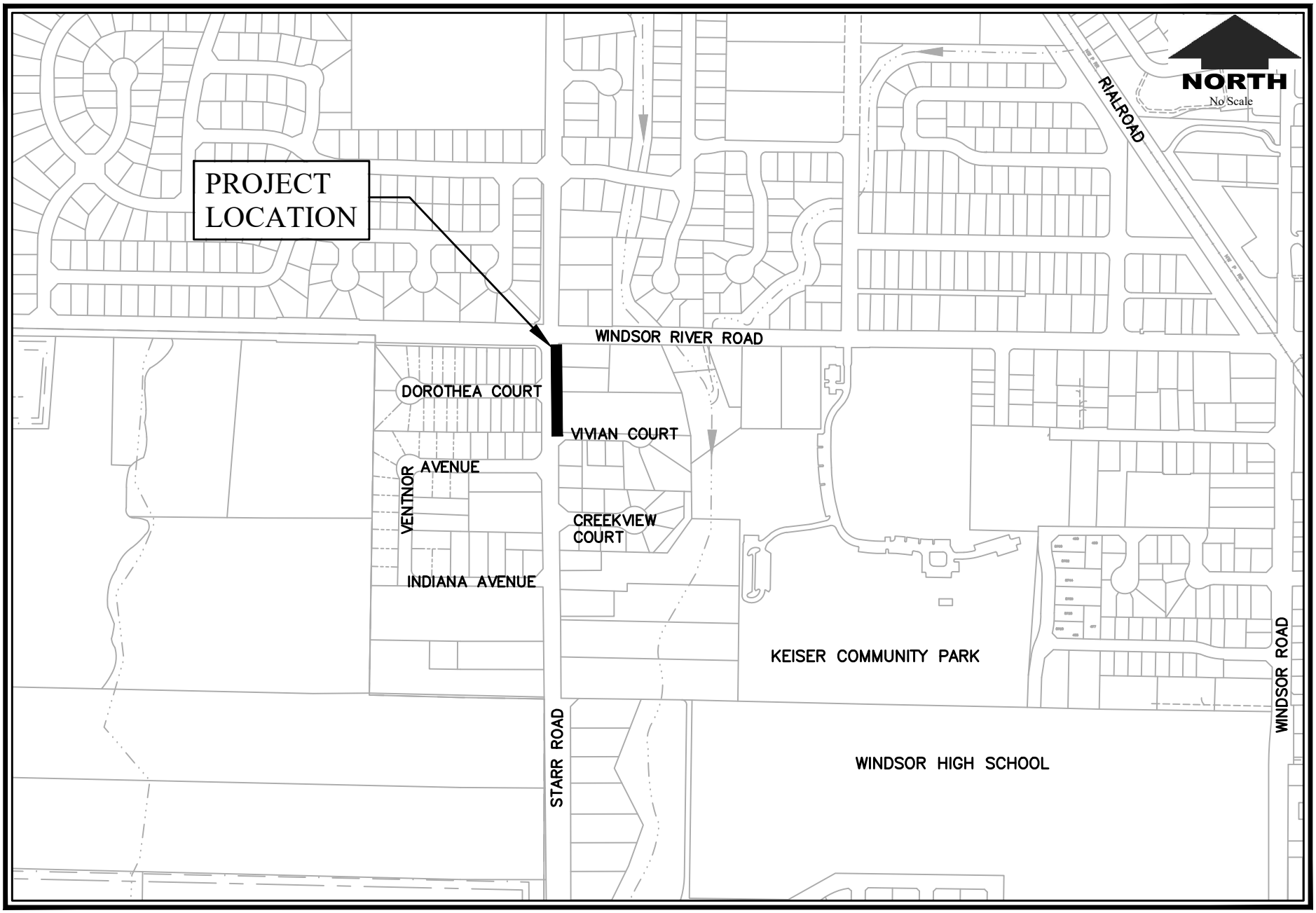
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The Project is consistent with General Plan Public Health and Safety Policy PHS 2.6, Emergency Facilities Operation During an Earthquake - the Town shall require that facilities necessary for emergency services be capable of withstanding a maximum credible earthquake from any of the three active faults in the region and remaining operational to provide emergency response.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design and construction	60,000	60,000	-	-	-	-	-	$ -
	Project Management	6,000	6,000	-	-	-	-	-	$ -
	Communications upgrade	-	-	16,000	-	-	-	-	$ 16,000
					-	-	-	-	$ -
									$ -
									$ -
	Total	$ 66,000	$ 66,000	$ 16,000	$ -	$ -	$ -	$ -	$ 16,000
Funding Sources:	Capital Replacement	22,000	22,000	8,000	-	-	-	-	$ 8,000
	Water Rec Capital	22,000	22,000	4,000	-	-	-	-	$ 4,000
	Water Capital	22,000	22,000	4,000	-	-	-	-	$ 4,000
							-	-	
	Total	$ 66,000	$ 66,000	$ 16,000	$ -	$ -	$ -	$ -	$ 16,000
Estimated O & M:									

Starr Road Sidewalk Improvements from Vivian Court to Windsor River Road



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Starr Road Sidewalk Improvements from Vivian Court to Windsor River Road

Project No: 1804
GL No: 170-94-25-1804-4510-000
GL No: 010-63-25-1804-4510-000

Project Description:
The project consists of the removal of existing architectural barriers (existing non-ADA compliant asphaltic driveway surfaces and other minor barriers) and will close an existing sidewalk gap with the construction of approximately 325 lineal feet of sidewalk on the east side of Starr Road between Windsor River Road and Vivian Court The project will provide an ADA complaint accessible route of travel for people with disabilities, as well as parents and children walking from and to Cali Calmecac Language Academy and Keiser Community Park. Improvements will include a pedestrian ramp, curb, gutter and sidewalk.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
This project will provide an accessible route of travel and a safer environment for parents and children walking to and from Cali Calmecac Language Academy and the surrounding Starr Road Neighborhoods. The project falls within the Station Area/Downtown Specific Plan. The project is consistent with the Specific Plan goals and policies for pedestrian connectivity and improved sidewalks/streetscapes. The project was evaluated and identified in the draft Safe Routes to School report. The Town will be receiving a Community Development Block Grant (CDBG) for this project.

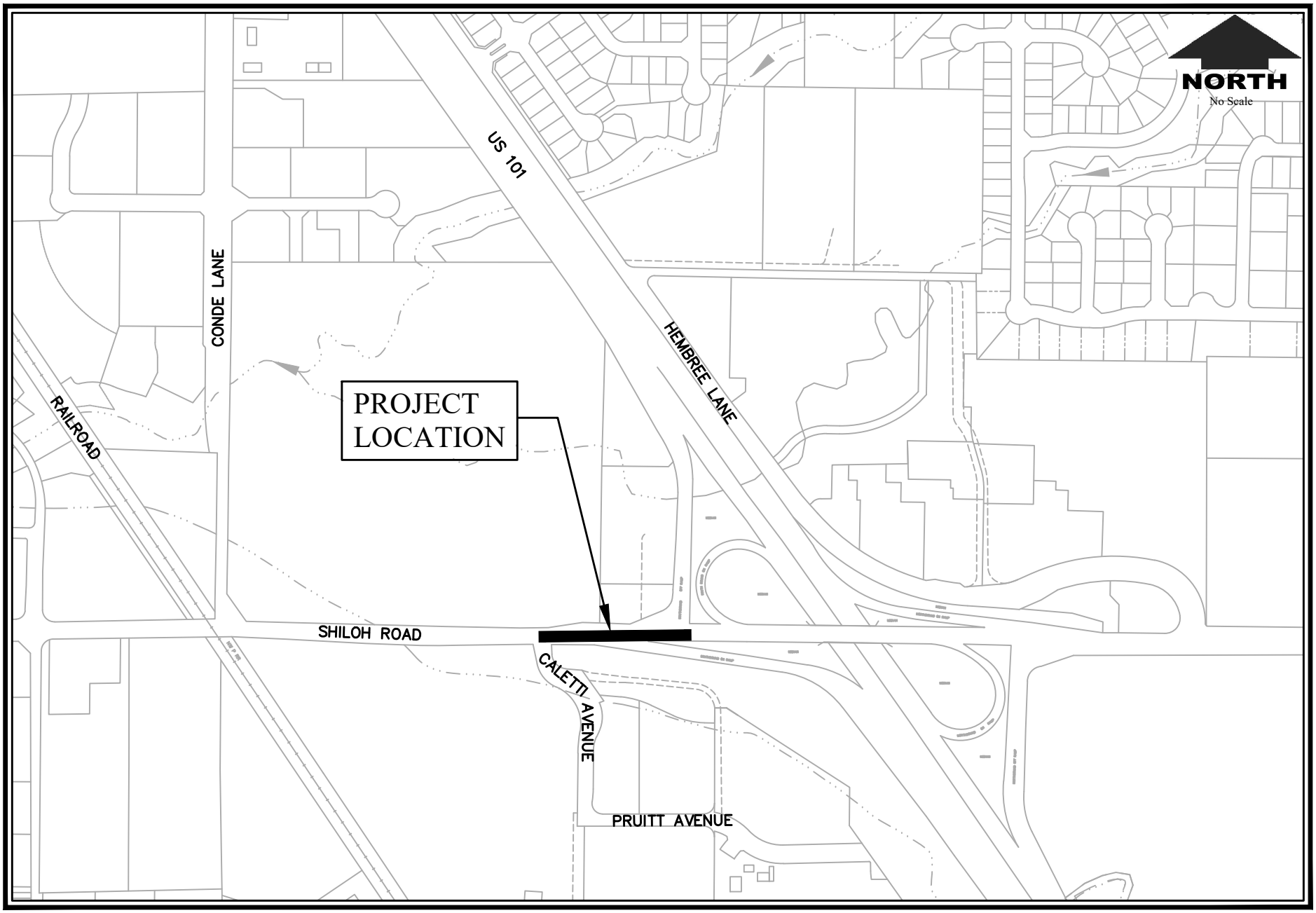
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The Project is consistent with General Plan Transportation Policies including Streets and Roadways Policy M-3.1 Connected Network - The Town shall strive to create a more connected transportation network by eliminating "gaps" in roadways, bikeways, and pedestrian networks; increasing transit access; and removing natural and manmade barriers to accessibility and connectivity and Walkable and Bikeable Community Policy M-4.4 Pedestrian and Bicycling Gaps - The Town shall encourage closing the gaps in the sidewalk and bicycling network to ensure continuous pedestrian and cycling access within town.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	40,000	44,440	-	-	-	-	-	$ -
	Appraisal/ROW	5,000	-	-	-	-	-	-	$ -
	Construction	150,000	-	269,000	-	-	-	-	$ 269,000
	Construction Management	25,000	-	-	-	-	-	-	$ -
	Legal Services/Admin	4,000	-	2,000	-	-	-	-	$ 2,000
	Project Management	10,000	2,500						$ -
	Total	$ 234,000	$ 46,940	$ 271,000	$ -	$ -	$ -	$ -	$ 271,000
Funding Sources:	Comm Dev Block Grant (CDBG)	108,000	46,940	61,000	-	-	-	-	$ 61,000
	General Fund	126,000	-	110,000	-	-	-	-	$ 110,000
	Transp. Grant Fund (Measure M)			100,000	-	-	-	-	$ 100,000
	Total	$ 234,000	$ 46,940	$ 271,000	$ -	$ -	$ -	$ -	$ 271,000
Estimated O & M:									

Shiloh Road Left Turn Intersection Improvements at Caletti Avenue



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Shiloh Road Left Turn Intersection Improvements at Caletti Avenue

Project No: 1805

GL No: 210-63-25-1805-4510-000

Project Description:
This project will address the Shiloh Road westbound left turn to Caletti Avenue storage issue. The first phase is a striping and median modification on Shiloh Road. Phase 2 improvements are rebuilding the eastbound approach to US 101 - Shiloh overpass, reconstructing the southbound on-ramp entry, raised median on Shiloh, relocating the southbound off-ramp traffic signal and constructing a new traffic signal at the intersection of Shiloh Road and Caletti Avenue.
***Construction funding source to be determined.**

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
Current left turn storage is not adequate for cumulative development of the Caletti Industrial Park property. This project will provide additional storage for that left turn movement and allow future development of the subject property.

Appropriations beyond the 5 year program period are needed to complete project:

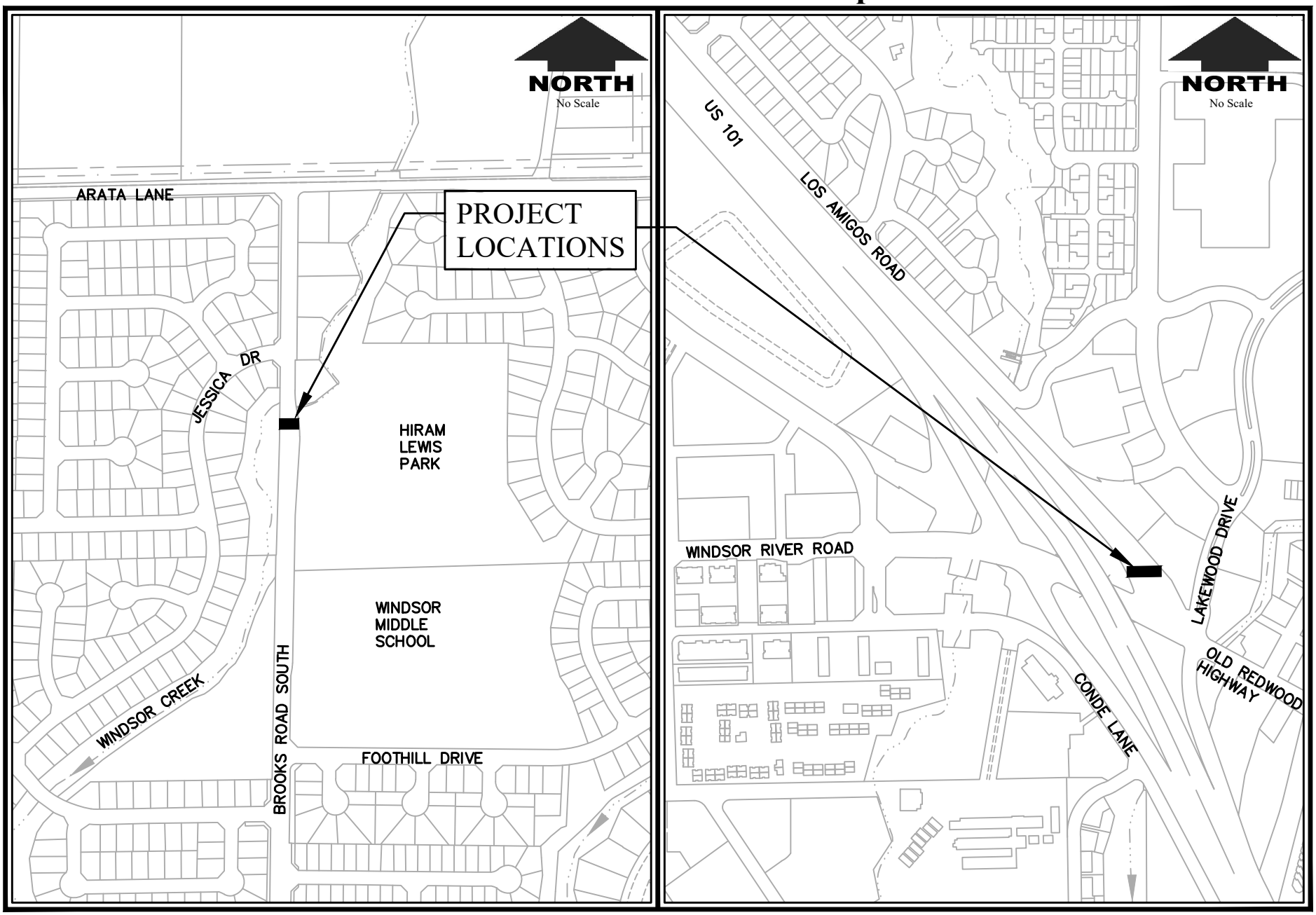
YES ( )
NO (X)

General Plan Consistency:

The Project is consistent with General Plan Transportation Policies including Streets and Roadways Policy M-3.12 Traffic Management - the Town shall strive to address traffic operations, including congestion, intersection delays, and travel speeds, while balancing neighborhood livability and safety concerns.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Preliminary Design	20,000	-		-	-	20,000		-	$ 20,000
	Design/Environmental	200,000	50,000		-	-	200,000		-	$ 200,000
	Construction	-	-		120,000	-	-	1,400,000	-	$ 1,520,000
	Construction Management	-	-		30,000	-	-	125,000	-	$ 155,000
	Legal Services/Admin	2,000	-			-	-	3,000	-	$ 3,000
	Project Management	25,000	-			-	-	25,000	-	$ 25,000
	Total	$ 247,000	$ 50,000		$ 150,000	$ -	$ 220,000	$ 1,553,000	$ -	$ 1,923,000
Funding Sources:	Traffic Mitigation	247,000	50,000		150,000	-	220,000	-	-	$ 370,000
	General Fund Grants	-	-		-	-	-	1,553,000	-	$ 1,553,000
	Total	$ 247,000	$ 50,000		$ 150,000	$ -	$ 220,000	$ 1,553,000	$ -	$ 1,923,000
Estimated O & M:										

Crosswalk Enhancements at Brooks Road South and US 101 Northbound On-ramp



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Crosswalk Enhancements at Brooks Road South and US 101 Northbound On-ramp

Project No: 1901

GL No: 111-63-25-1901-4510-000

Project Description:
Brooks Road South near Hiram Lewis Park. The proposed crosswalk installation includes a new high-visibility school crosswalk with yield markings, pedestrian activated lighted beacon, pedestrian refuge island, ADA ramps and a street light.

US 101northbound on-ramp. This location is in the Caltrans right-of-way and a previous project installed a raised crosswalk to increase pedestrian visibility. In March 2017, the Town requested, and Caltrans agreed that pedestrian activated light beacon is warranted at the location of the raised crosswalk. The proposed enhanced crosswalk installation includes two pedestrian activated light beacons.
* Partially funded by Transportation Development Act Article 3 (TDA 3) Grant

Department:
Public Works - Engineering

Priority:
_____ **Mandate**
X **Necessary**
_____ **Desirable**

Justification:
Brooks Road South near Hiram Lewis Park - This crosswalk will provide trail connectivity for the Windsor Creek Trail, connecting the paved trail on the east side of Brooks Road South to an unimproved segment on the west. This trail connection is part of the current Class I Trails Study and is identified in the Draft Safe Routes to School Report.
US101 northbound on-ramp in central Windsor is un-signalized and has been identified as an area of concern for residents and the general public through various surveys conducted by the Connecting Central Windsor Study and the 2014 Bicycle and Pedestrian Master Plan.

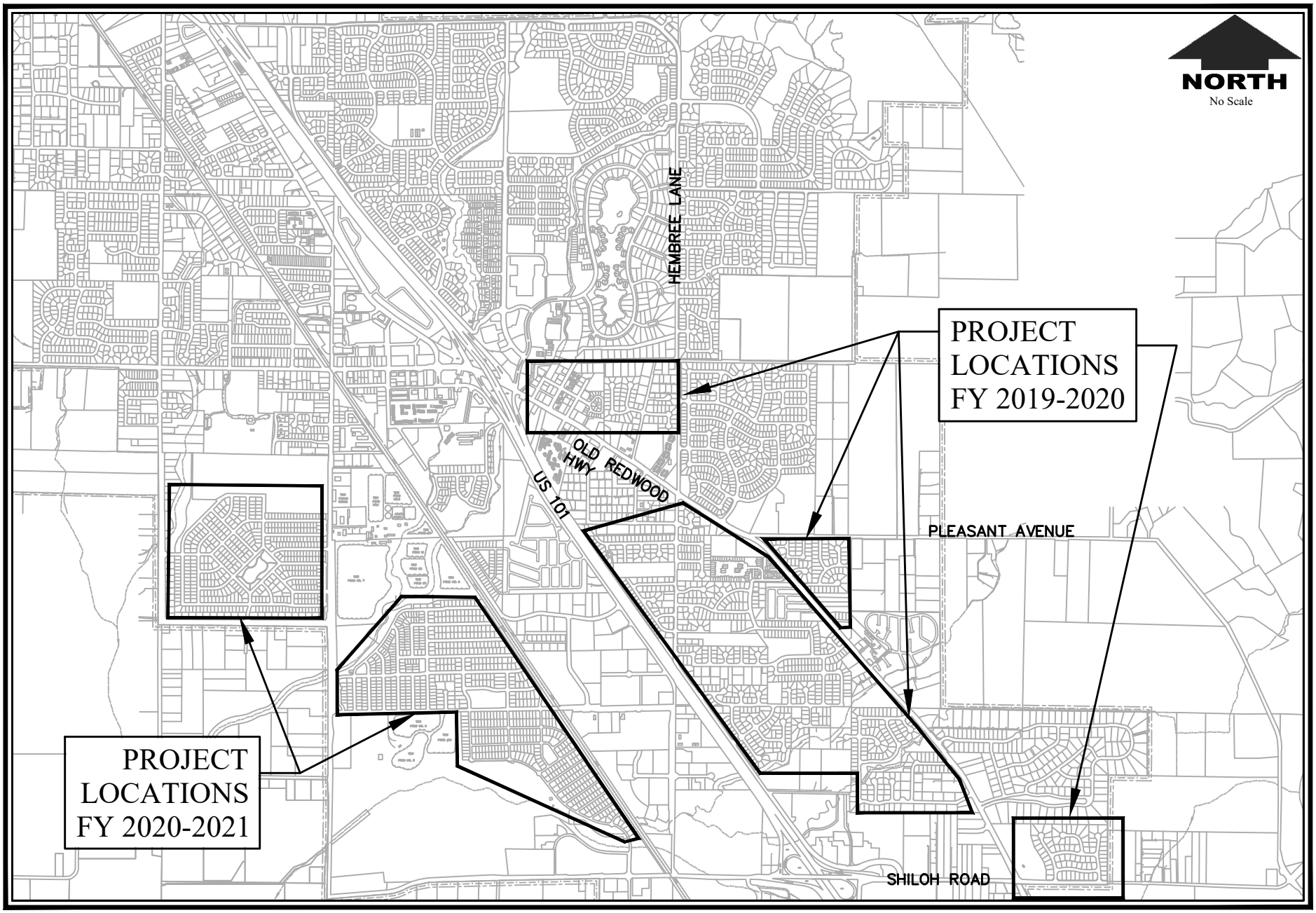
Appropriations beyond the 5 year program period are needed to complete project:

YES **( )**
NO **(X)**

General Plan Consistency:
The Project is consistent with General Plan Transportation Policies including Walkable and Bikeable Community Policy M-4.10 Bicycle and Pedestrian Crossing Safety - the Town shall develop safe and convenient bikeways and pedestrian crossings that reduce conflicts between pedestrians, bicyclists, and motor vehicles on streets, multi-use trails, and sidewalk and Policy M-4.14 - Safe Routes to School - the Town shall continue to coordinate with the School District on implementation of the Safe Routes to School program to ensure a safe pedestrian and bicycling network to and from local educational facilities for all.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Prelim/Final Design	-	60,000		-	-	-	-	$ -
	Construction	-	-	180,000	-	-	-	-	$ 180,000
	Construction Management	-	-	30,000	-	-	-	-	$ 30,000
	Project Management	-	-		-	-	-	-	$ -
	Legal Services/Admin	-	-	2,000	-	-	-	-	$ 2,000
	Total	$ -	$ 60,000	$ 212,000	$ -	$ -	$ -	$ -	$ 212,000
Funding Sources:	Transp. Grant Fund*	219,124	60,000	159,124	-	-	-	-	$ 159,124
	General Fund			52,876	-	-	-	-	$ 52,876
	Total	$ 219,124	$ 60,000	$ 212,000	$ -	$ -	$ -	$ -	$ 212,000
Estimated O & M:									

FY 2019-2021 Town Wide Street Resurfacing



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
FY 2019-2021 Town Wide Street Resurfacing

Project No: 2040
GL No: 010-63-25-2040-4510-000
GL No: 111-63-25-2040-4510-000
GL No: 110-81-25-2040-4510-000

Project Description:
The program includes continued slurry sealing streets and will include the southeast and southwest quadrants of the Town.
* Partially funded by Measure M-Transportation Grant

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
Investing in the on-going maintenance of Town streets reduces the deterioration of pavement and extends the useful life of Town streets. An annual pavement maintenance plan is considered a best management maintenance program. Proper maintenance will reduce future operation and maintenance costs.

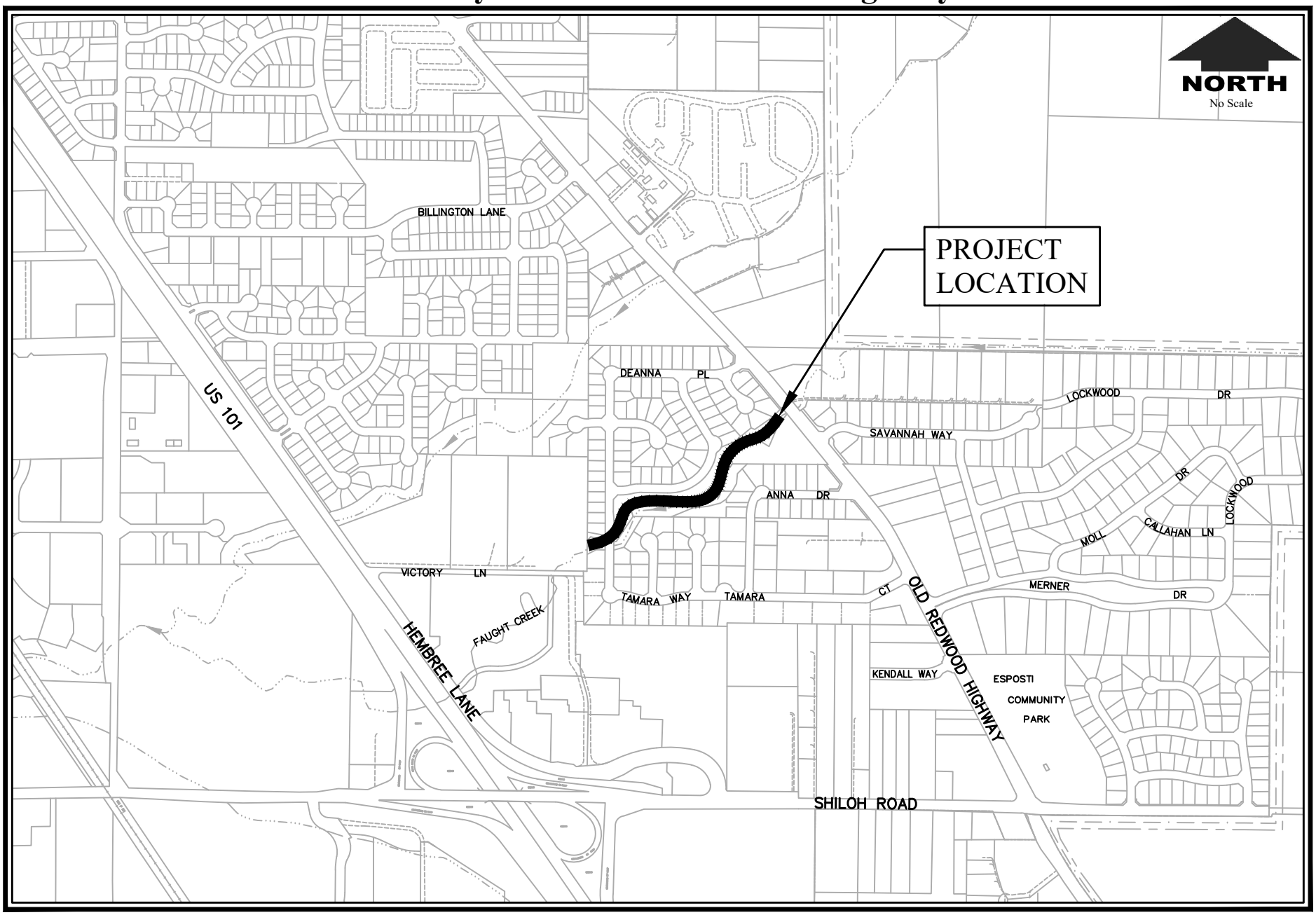
Appropriations beyond the 5 year program period are needed to complete project:

YES **( )**
NO **(X)**

General Plan Consistency:
The Project is consistent with General Plan Transportation Policies including Streets & Roadways Policy M-3.9 Pavement Management Program - the Town shall maintain and implement the Pavement Management Program (PMP) which is set to provide the guidance to apply for grant funding through MTC to maintain and rehabilitate the Town Roads and M-3.10 Pavement Condition Index (PCI) - the Town shall continue to provide street maintenance to sustain high Pavement Condition Index (PCI) levels in order to maintain high quality roads.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-		50,000	50,000	-	-	-	100,000
	Construction	-	-		465,000	555,000	-	-	-	1,020,000
	Construction Management	-	-		90,000	100,000	-	-	-	190,000
	Legal Services/Admin	-	-		5,000	5,000	-	-	-	10,000
	Project Management	-	-		-	-	-	-	-	-
	Total	$ -	$ -		$ 610,000	$ 710,000	$ -	$ -	$ -	$ 1,320,000
Funding Sources:	General Fund	-	-		-	-	-	-	-	-
	Transp. Grant Fund:	-	-				-	-	-	-
	Measure M	-	-		150,000	250,000	-	-	-	400,000
	Gas Tax (Apportionment)	-	-		-	-	-	-	-	-
	Gas Tax (SB 1)				460,000	460,000	-	-	-	920,000
	Total	$ -	$ -		$ 610,000	$ 710,000	$ -	$ -	$ -	$ 1,320,000
Estimated O & M:										

Faught Creek Trail Improvements from Victory Lane to Old Redwood Highway



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Faught Creek Trail Improvements from Victory Lane to Old Redwood Highway

Project No: 2041

GL No: 111-63-25-2041-4510-000

Project Description:
Formalize an existing compacted 8 foot trail extending from Old Redwood Highway to Gabrielle Drive on north side of creek. Trail would be located at top of bank following Gabrielle Drive to Amie Drive. Crossing improvements to be installed on Amie Drive to connect trail on Gabrielle to Victory Lane. Formalize a footpath from Amie Drive to the improved trail to be installed by the Portello (Victoria Oaks) Subdivision.
* Partially funded by Transportation for Clear Air (TFCA) Grant.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
Providing bike/pedestrian facilities for a healthy community. Improvements identified in the 2014 Windsor Bicycle and Pedestrian Master Plan Update and the 2018 Class I Bicycle and Pedestrian Trails Study.

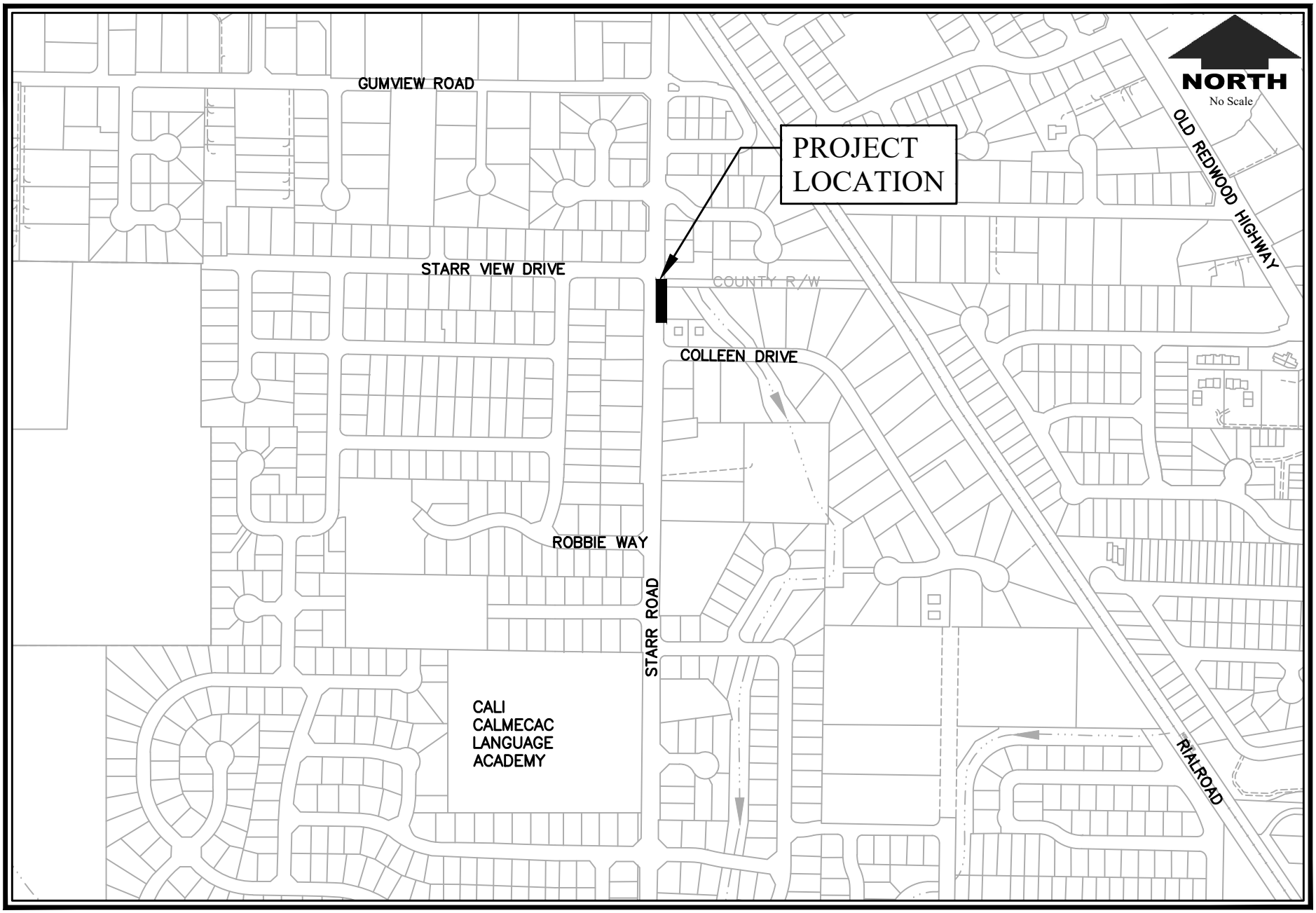
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The Project is consistent with General Plan Transportation Policies including Walkable and Bikeable Community Policy M-4.2 Trail Network - the Town shall expand its network of trails throughout the town, wherever feasible, through public open spaces and easements for recreational enjoyment and for a vehicle-free route to parks, schools, and neighborhoods through walled subdivisions and Policy M-4.3 Trail Accessibility - the Town shall require trails to be within a short walk of most residents in order to harbor active lifestyles and offer opportunities to appreciate open space.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design and permitting	-	-		35,000	-	-	-	-	35,000
	Construction	-	-		140,000	-	-	-	-	140,000
	Construction Management	-	-		25,000	-	-	-	-	25,000
	Project Management	-	-			-	-	-	-	-
	Legal Services/Admin	-	-		5,000	-	-	-	-	5,000
	Total	$ -	$ -		$ 205,000	$ -	$ -	$ -	$ -	$ 205,000
Funding Sources:	General Fund	-	-		63,000	-	-	-	-	63,000
	Transp. Grant Fund*	-	-		142,000	-	-	-	-	142,000
	Total	$ -	$ -		$ 205,000	$ -	$ -	$ -	$ -	$ 205,000
Estimated O & M:										

Starr Road Sidewalk Improvements South of Starr View Drive



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Starr Road Sidewalk Improvements South of Starr View Drive

Project No: 2042

GL No: 170-94-25-2042-4510-000
GL No: 010-63-25-2042-4510-000

Project Description:
The project consists of the construction of approximately 150 linear feet of sidewalk and removal of architectural barriers on the east side of Starr Road opposite Colleen Court. This project will provide an accessible route of travel for people with disabilities, and parents and children walking to and from the Cali Calmecac School as well as a safer environment for residents and pedestrians walking in the Starr Road neighborhood.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
This project will provide an accessible route of travel and a safer environment for parents and children walking to and from Cali Calmecac Language Academy and the surrounding Starr Road Neighborhoods. The project falls within the Station Area/Downtown Specific Plan. The project is consistent with the Specific Plan goals and policies for pedestrian connectivity and improved sidewalks/streetscapes. The project was evaluated and identified in the draft Safe Routes to School report. The Town will be receiving a Community Development Block Grant (CDBG) for this project.

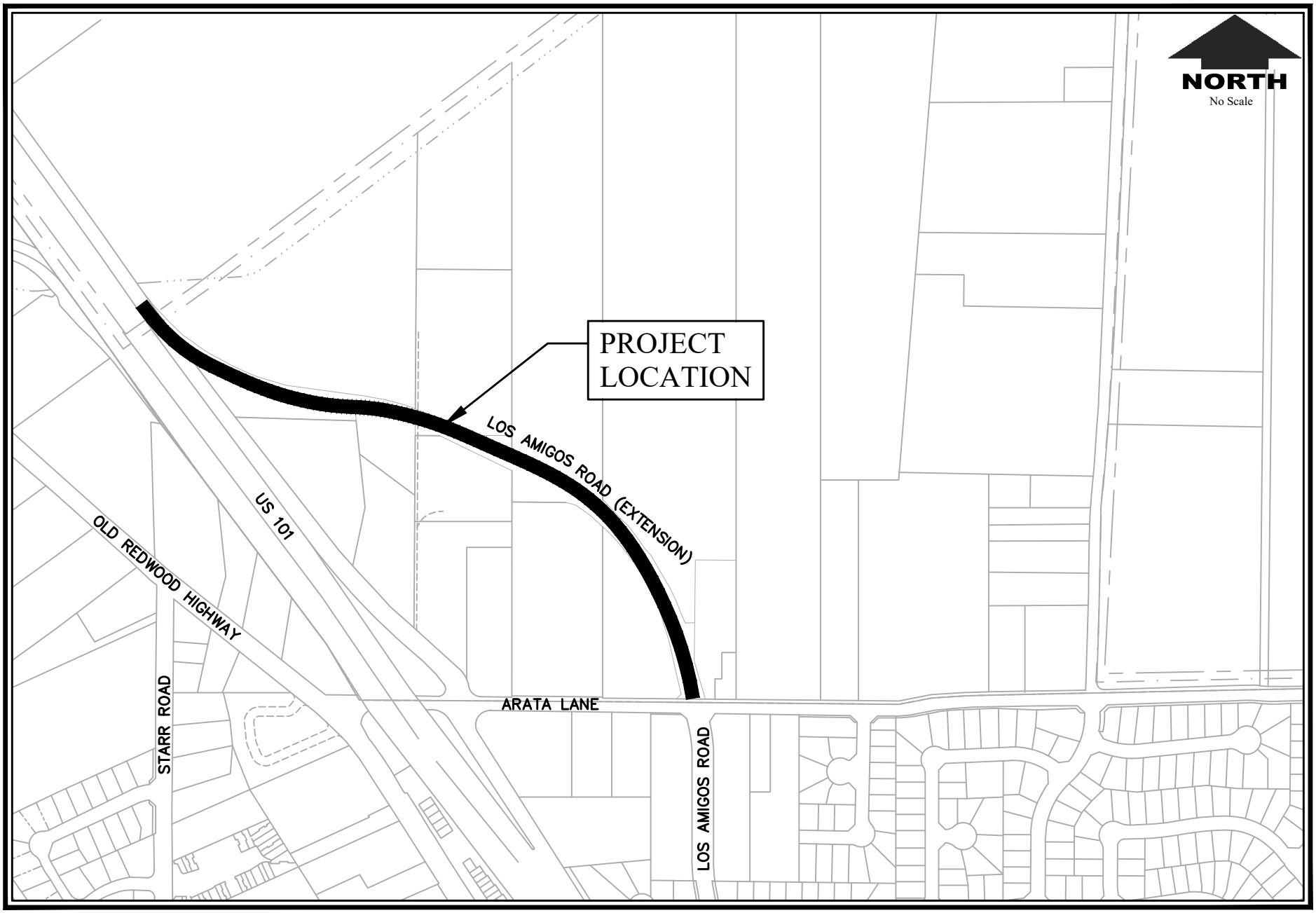
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The Project is consistent with General Plan Transportation Policies including Streets and Roadways Policy M-3.1 Connected Network - The Town shall strive to create a more connected transportation network by eliminating "gaps" in roadways, bikeways, and pedestrian networks; increasing transit access; and removing natural and manmade barriers to accessibility and connectivity and Walkable and Bikeable Community Policy M-4.4 Pedestrian and Bicycling Gaps - The Town shall encourage closing the gaps in the sidewalk and bicycling network to ensure continuous pedestrian and cycling access within town.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Prelim/Final Design	-	-	45,000	-	-	-	-	$ 45,000
	Construction	-	-	80,000	-	-	-	-	$ 80,000
	Construction Management	-	-	25,000	-	-	-	-	$ 25,000
	Project Management	-	-		-	-	-	-	$ -
	Legal Services/Admin/ROW	-	-	5,000	-	-	-	-	$ 5,000
	Total	$ -	$ -	$ 155,000	$ -	$ -	$ -	$ -	$ 155,000
Funding Sources:	Comm Dev Block Grant (CDBG)	-	-	90,000	-	-	-	-	$ 90,000
	General Fund	-	-	65,000	-	-	-	-	$ 65,000
	Total	$ -	$ -	$ 155,000	$ -	$ -	$ -	$ -	$ 155,000
Estimated O & M:									

Arata Lane Interchange Phase 2B for Los Amigos Realignment



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Arata Lane Interchange Phase 2B for Los Amigos Road Realignment

Project No: 1812
GL No: 210-63-25-1812-4510-000
GL No: 111-63-25-2043-4510-000
GL No: 210-63-25-2043-4510-000

Project Description:
Realignment of Los Amigos Road (north) to accommodate construction of the Phase 2C - Arata Northbound On-Ramp Project. Improvements include a new 2 lane roadway with shoulders (possible bike lanes). All construction including sidewalk, curb/gutter and/or utilities are anticipated to be constructed by developers.
* Partially funded by Economic Development Administration Grant

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
Completion of the Arata Lane Interchange at Highway 101. Phase I - Southbound On-Ramp and Northbound Off-Ramp Project and Phase 2A - Southbound Off-Ramp Project have been completed. Remaining improvements to be constructed include: Phase 2B - Los Amigos Road Realignment, Phase 2C - Northbound On-Ramp and Phase 2D - Arata Lane Widening/Reconstruction of Highway 101 Overpass.

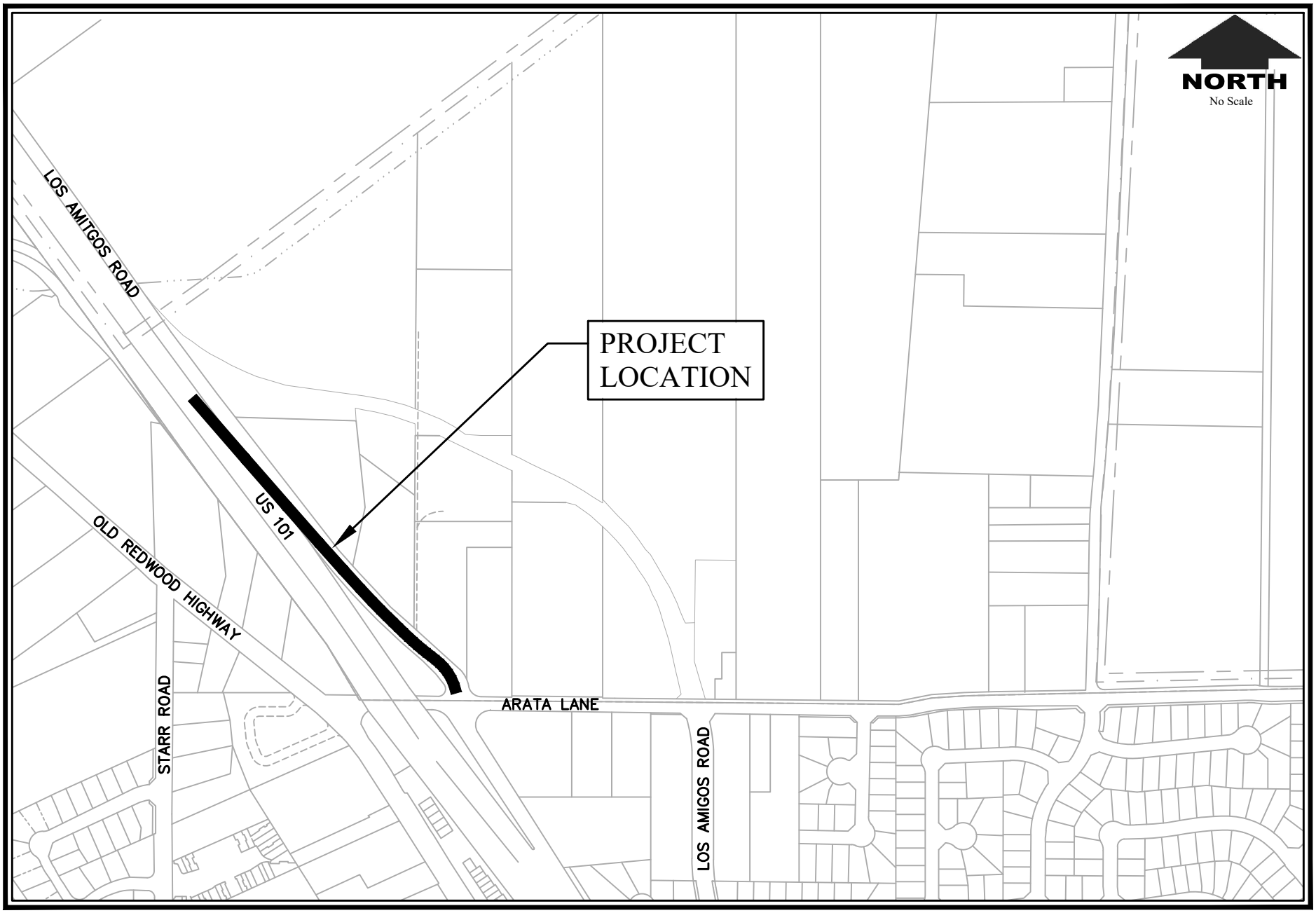
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The Project is consistent with General Plan Transportation Policies including Multimodal Circulation System Policy M-1.1 Multimodal Transportation System - the Town shall continue to implement a multimodal transportation system that connects residents to activity centers throughout and near town, such as commercial centers and corridors, employment centers, the SMART train stop, the airport, schools, parks, recreation areas, and other attractions.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-		540,000		-	-	-	$ 540,000
	Environmental	-	-		225,000		100,000	-	-	$ 325,000
	Project Management	-	-		-		-	-	-	$ -
	Legal Services/Admin	-	-		-	-	25,000	-	-	$ 25,000
	Right-of-Way - Constr.Easements	-	-		90,000		-	-	-	$ 90,000
	Construction Management	-	-		-	-	540,000	-	-	$ 540,000
	Construction	-	-		-	-	3,250,000	-	-	$ 3,250,000
	Total	$ -	$ -		$ 855,000	$ -	$ 3,915,000	$ -	$ -	$ 4,770,000
Funding Sources:	Traffic Mitigation	-	-		427,500	-	-	-	-	$ 427,500
	Transp. Grant Fund*	-	-		427,500	-	-	-	-	$ 427,500
	Other [developer] funds/AD	-	-		-	-	3,915,000	-	-	$ 3,915,000
										$ -
	Total	$ -	$ -		$ 855,000	$ -	$ 3,915,000	$ -	$ -	$ 4,770,000
Estimated O & M:										

Arata Lane Interchange Phase 2C for Northbound On-Ramp



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Arata Lane Interchange Phase 2C for Northbound On-Ramp

Project No: New
GL No: 010-63-25-21XX-4510-000
GL No: 210-63-25-21XX-4510-000

Project Description:
Design and Environmental for the Arata Lane northbound on-ramp.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
Completion of the Arata Lane Interchange at Highway 101. Phase I - Southbound On-Ramp and Northbound Off-Ramp Project and Phase 2A - Southbound Off-Ramp Project have been completed. Remaining improvements to be constructed include: Phase 2B - Los Amigos Road Realignment, Phase 2C - Northbound On-Ramp and Phase 2D - Arata Lane Widening/Reconstruction of Highway 101 Overpass.

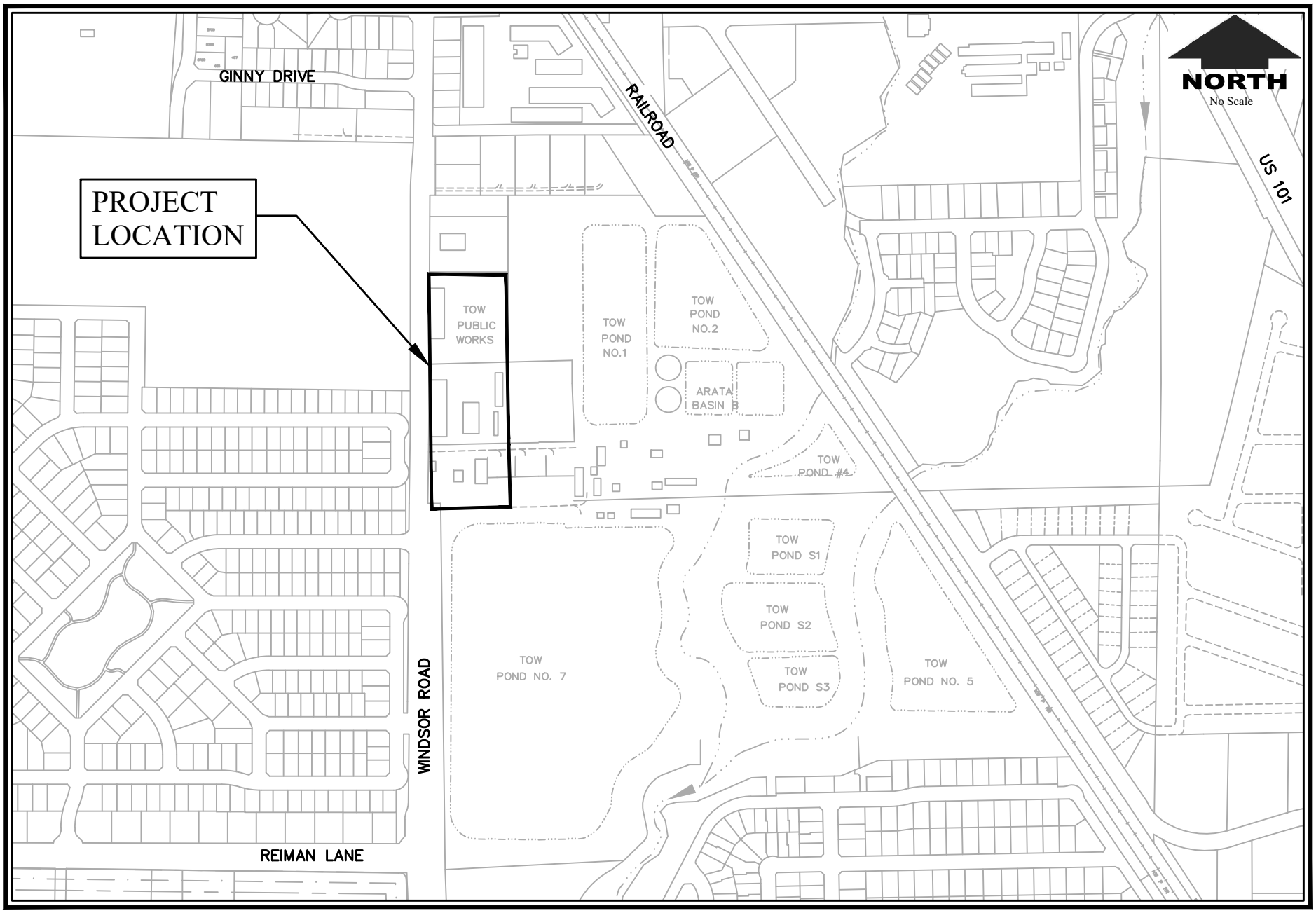
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The Project is consistent with General Plan Transportation Policies including Complete Streets Policy M-2.7 Complete Street Priority Areas - the Town shall prioritize complete streets improvements (e.g., bicycle, pedestrian, vehicle, and transit facilities) at and along U.S. Highway 101 interchanges, including Shiloh Road, Arata Lane, and Central Windsor.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Caltrans Oversight (PID)	-	-		-		150,000	100,000	100,000	$ 350,000
	Preliminary Engineering	-	-		-		200,000	-	-	$ 200,000
	Design & Environmental	-	-		-			-	300,000	$ 300,000
	Project Management	-	-		-		5,000	-	-	$ 5,000
	Legal Services/Admin	-	-		-	-	-	-	-	$ -
	Right of Way (ROW)	-	-		-	-			-	$ -
	Total	$ -	$ -		$ -	$ -	$ 355,000	$ 100,000	$ 400,000	$ 855,000
Funding Sources:	General Fund	-	-		-		205,000	100,000	250,000	$ 555,000
	Traffic Mitigation	-	-		-		150,000	-	150,000	$ 300,000
										$ -
	Total	$ -	$ -		$ -	$ -	$ 355,000	$ 100,000	$ 400,000	$ 855,000
Estimated O & M:										

Corporation Yard Pavement Maintenance



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Corporation Yard Pavement Maintenance

Project No: New

GL No:

Project Description:
Pavement maintenance of Corporation Yard paved areas. Pavement maintenance includes dig-outs, slurry seal and restriping.

Department:
Public Works - Engineering

Priority:

_____	**Mandate**
X	**Necessary**
_____	**Desirable**

Justification:
Pavement maintenance of the Corporation Yard will reduce the deterioration of existing pavement and extend the useful life of the existing pavement.

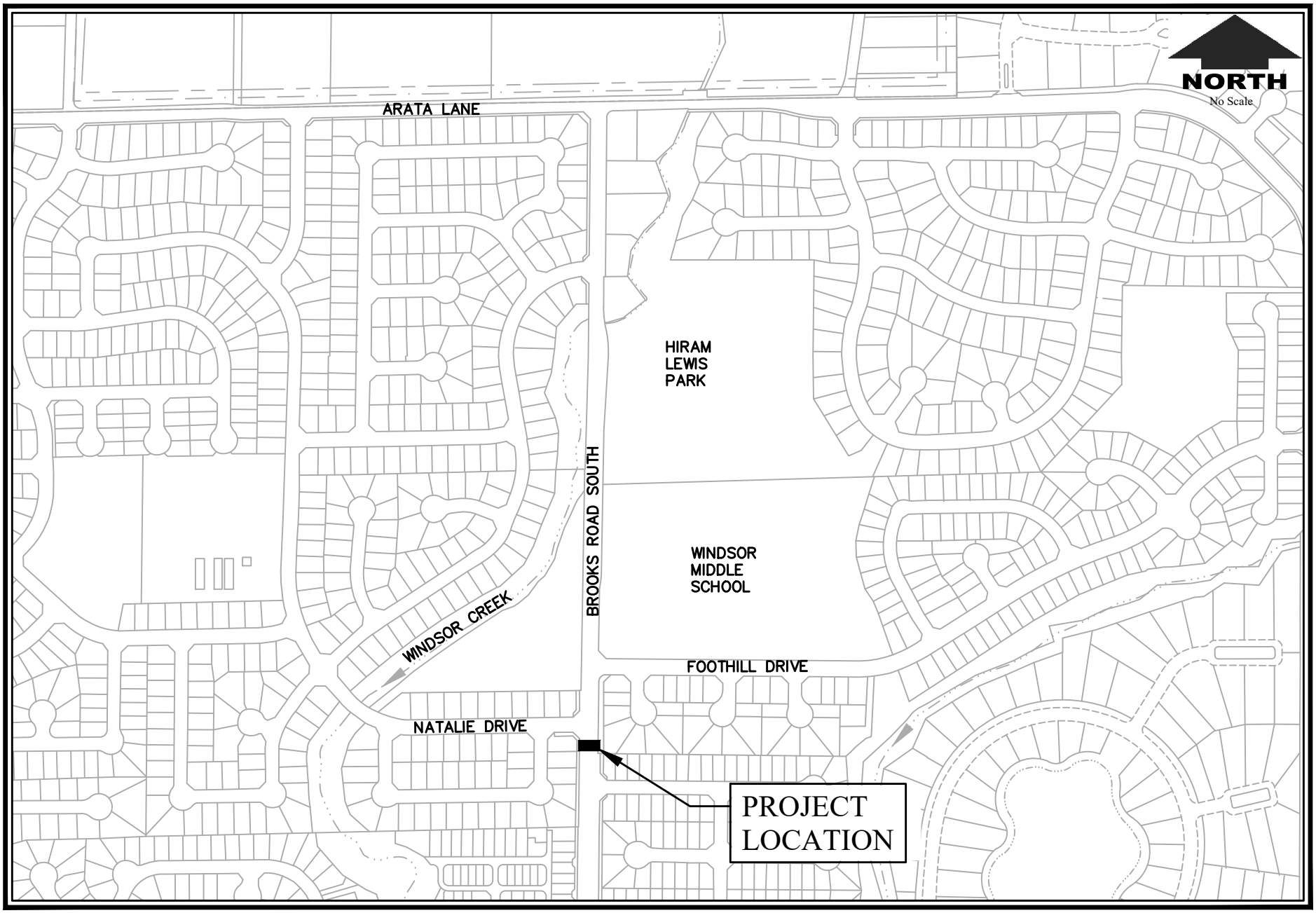
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The Project is consistent with General Plan General Public Facilities and Services Policy PHS-1.4 - Efficient, Cost Effective Operations -the Town shall continue to function efficiently in all its operations and activities and use revenues in a cost-effective manner.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-		-	-	40,000	-	-	40,000
	Construction	-	-		-	-	300,000	-	-	300,000
	Construction Engineering	-	-		-	-	40,000	-	-	40,000
	Project Management	-	-		-	-	15,000	-	-	15,000
	Legal Services/Admin	-	-		-	-	5,000	-	-	5,000
										-
	Total	$ -	$ -		$ -	$ -	$ 400,000	$ -	$ -	$ 400,000
Funding Sources:	Water Rec Capital	-	-		-	-	300,000	-	-	300,000
	General Fund	-	-		-	-	100,000	-	-	100,000
	Total	$ -	$ -		$ -	$ -	$ 400,000	$ -	$ -	$ 400,000
Estimated O & M:										

Crosswalk Enhancements at Brooks Road South at Natalie Drive



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Crosswalk Enhancement at Brooks Road South at Natalie Drive

Project No: New

GL No:

Project Description:
Brooks Road South at Natalie Drive - Improve existing crosswalk with a pedestrian-activated warning system such as an RRFB and a pedestrian refuge island for pedestrian safety and for placement of a flashing beacon. Construction also includes a curb extension be constructed on the west side of the street to reduce the crossing distance and increase pedestrian visibility and a curb ramp should be constructed on the east side of the crossing to provide an accessible crossing.
* May be partially funded in future by Transportation Development Act Artice 3 (TDA 3) or Transportation for Clean Air (TFCA) Grants

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
Brooks Road South at Natalie Drive -The existing crosswalk was installed as part of the Draft Safe Routes to School Report. Since that time, concerns regarding pedestrian safety in the crosswalk have been brought to the Town. The improvements will also bring the crosswalk to current American with Diasbilities Act (ADA) standards.

Appropriations beyond the 5 year program period are needed to complete project:

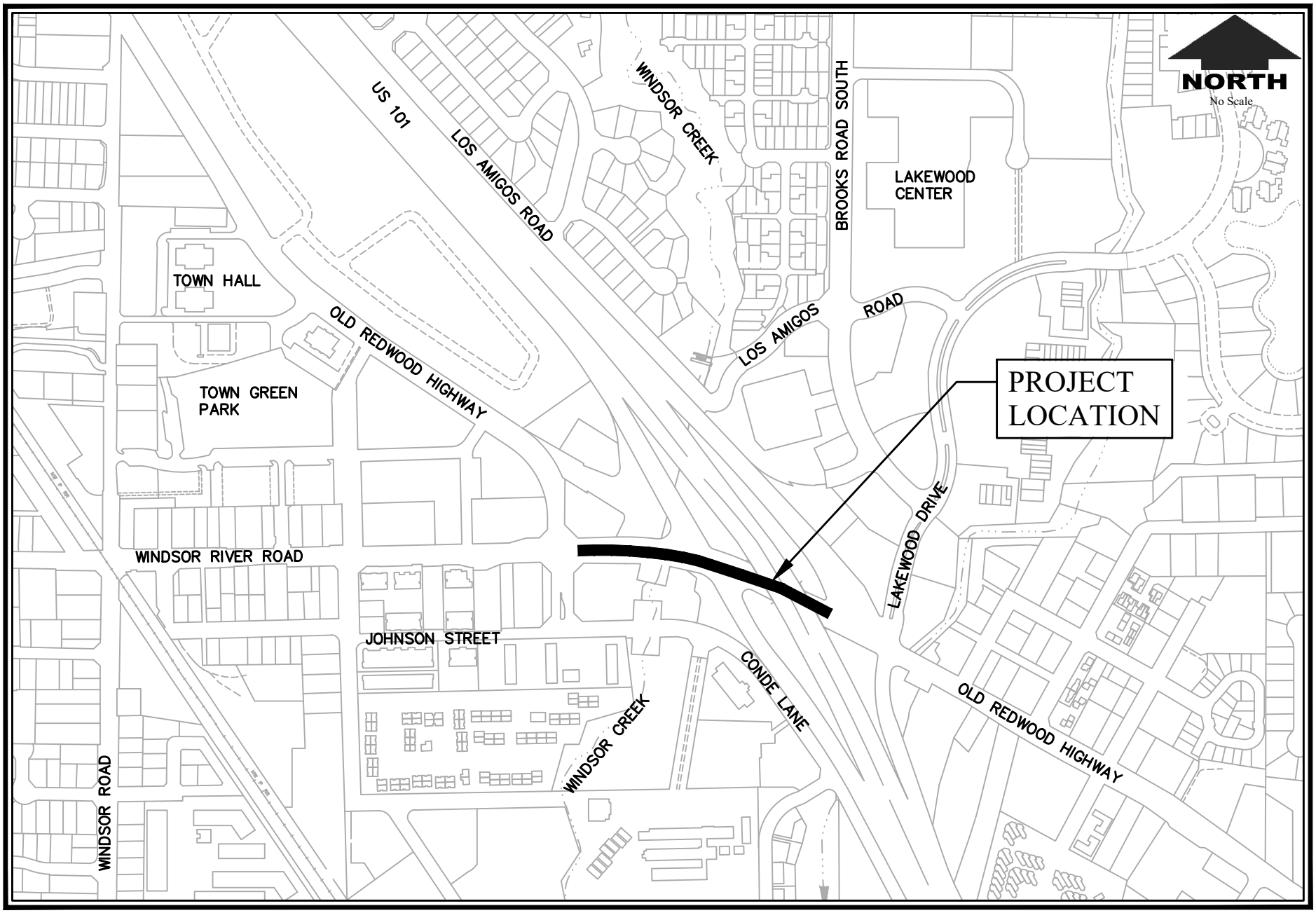
YES ( )
NO (X)

General Plan Consistency:

The Project is consistent with General Plan Transportation Policies including Walkable and Bikeable Community Policy M-4.10 Bicycle and Pedestrian Crossing Safety - the Town shall develop safe and convenient bikeways and pedestrian crossings that reduce conflicts between pedestrians, bicyclists, and motor vehicles on streets, multi-use trails, and sidewalk and Policy M-4.14 - Safe Routes to School - the Town shall continue to coordinate with the School District on implementation of the Safe Routes to School program to ensure a safe pedestrian and bicycling network to and from local educational facilities for all.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Prelim/Final Design	-	-		-	-	20,000	-	-	20,000
	Construction	-	-		-	-	200,000	-	-	200,000
	Construction Management	-	-		-	-	25,000	-	-	25,000
	Project Management	-	-		-	-		-	-	-
	Legal Services/Admin	-	-		-	-	2,000	-	-	2,000
	Total	$ -	$ -		$ -	$ -	$ 247,000	$ -	$ -	$ 247,000
Funding Sources:		-	-							
	General Fund	-	-		-	-	47,000	-	-	47,000
	Grants*	-	-		-	-	200,000	-	-	200,000
	Total	$ -	$ -		$ -	$ -	$ 247,000	$ -	$ -	$ 247,000
Estimated O & M:										

Downtown Pedestrian & Bicycle Crossing of US 101 Phase 1



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Downtown Pedestrian & Bicycle Crossing of US 101 Phase 1

Project No: New

GL No:

Project Description:
Caltrans Project Initiation Documents (PID) and Design and Environmental for the Downtown Crossing of US 101 Phase 1. This work consists of improving the existing U> 101 underpass by widening the underpass and adding Class I bike paths with protected two-way bike lanes and widened pedestrian paths.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
For all transportation modes, travel between important destinations on each side of the freeway is restricted to just three crossing locations within Windsor. The U.S. 101 at Central Windsor underpass on Old Redwood Highway is the primary link between the east and west sides of town. The Town has broader goal of creating a more cohesive and walkable downtown area by improving the existing U.S. 101 Old Redwood Highway crossing and creating a new dedicated bicycle/pedestrian crossing.

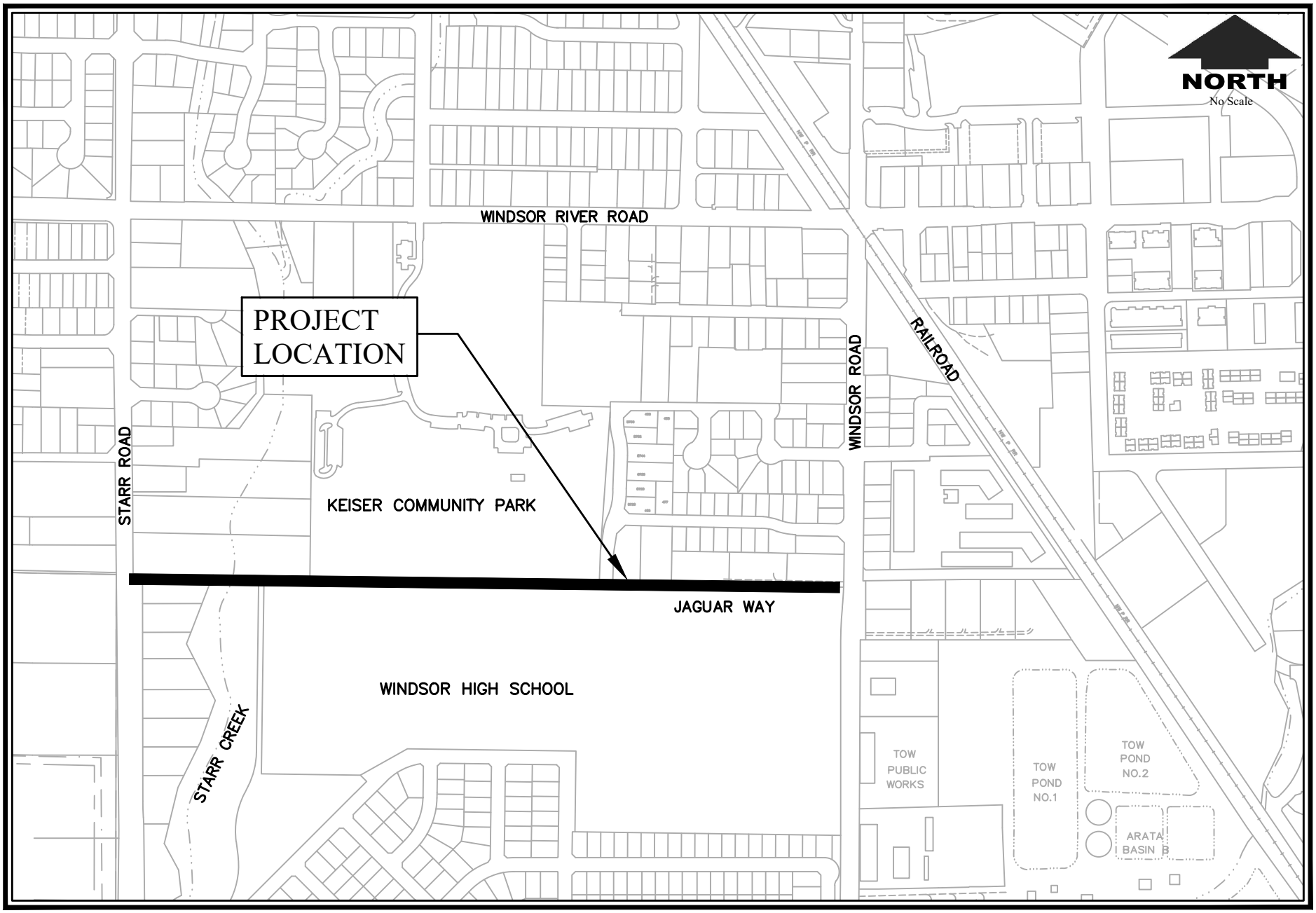
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The Project is consistent with General Plan Transportation Policies including Complete Streets Policy M-2.7 Complete Street Priority Areas - the Town shall prioritize complete streets improvements (e.g., bicycle, pedestrian, vehicle, and transit facilities) at and along U.S. Highway 101 interchanges, including Shiloh Road, Arata Lane, and Central Windsor.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Caltrans Oversight (PID)	-	-		-	-	150,000	150,000	150,000	$ 450,000
	Preliminary Engineering	-	-		-	-	400,000	-	-	$ 400,000
	Design & Environmental	-	-		-	-	-	-	650,000	$ 650,000
	Project Management	-	-		-	-	-	-	-	$ -
	Legal Services/Admin	-	-		-	-	-	-	-	$ -
	Right of Way (ROW)	-	-		-	-	-	-	100,000	$ 100,000
	Total	$ -	$ -		$ -	$ -	$ 550,000	$ 150,000	$ 900,000	$ 1,600,000
Funding Sources:	General Fund	-	-		-	-	550,000	150,000	900,000	$ 1,600,000
										$ -
										$ -
	Total	$ -	$ -		$ -	$ -	$ 550,000	$ 150,000	$ 900,000	$ 1,600,000
Estimated O & M:										

Jaguar Way Extension from Windsor Road to Starr Road



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Jaguar Way Extension from Windsor Road to Starr Road

Project No: New

GL No:

Project Description:
Provide safe pedestrian, bicycle, and vehicular access between Starr Road and Windsor Road giving through access to Windsor High School, the athletic fields and Keiser Park. Proposed project includes paved road including bike lanes, sidewalk and a bridge crossing of Starr Creek. ***Funding to be determined.**

Department:
Public Works - Engineering

Priority:

_____	**Mandate**
X	**Necessary**
_____	**Desirable**

Justification:
Provide safe pedestrian and vehicular access and improve operations along Windsor Road and Jaguar Way as identified in the Town of Windsor ITS Pedestrian Safety Assessment. The project falls within the Station Area/Downtown Specific Plan. The project is consistent with the Specific Plan goals and policies for pedestrian/bike connectivity and improved sidewalks/streetscapes.

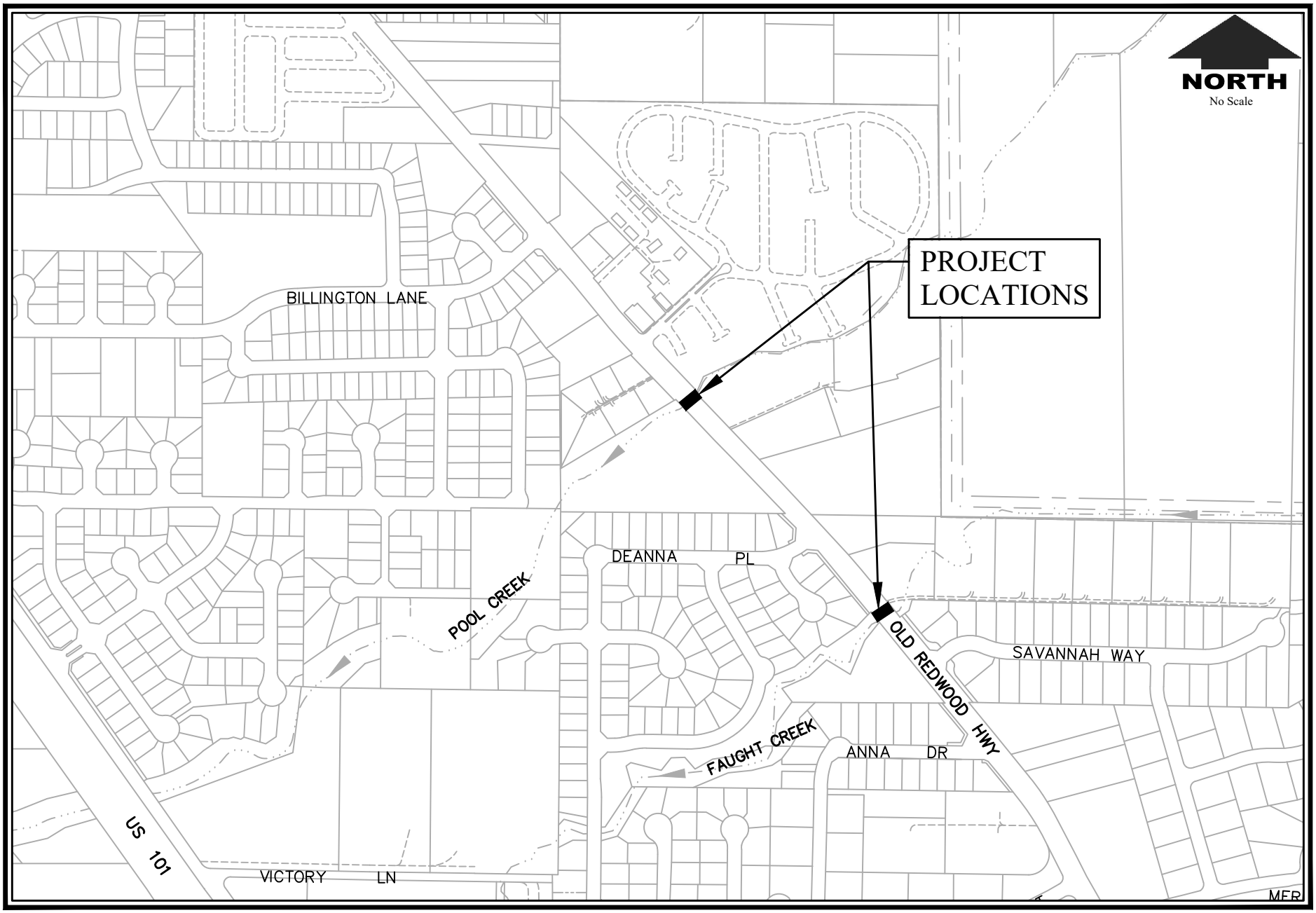
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The Project is consistent with General Plan Transportation Policies including Multimodal Circulation System Policy M-1.1 Multimodal Transportation System - the Town shall continue to implement a multimodal transportation system that connects residents to activity centers throughout and near town, such as commercial centers and corridors, employment centers, the SMART train stop, the airport, schools, parks, recreation areas, and other attractions and Complete Streets Policy M-2.3 Safe and Comfortable Streets - the Town shall design streets to enhance Windsor's identity, to be safe and convey a sense of security, and to be comfortable and convenient for all travel modes including motor vehicles, pedestrians, and bicyclists.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Environmental Review/Prelim. Design	-	-		-	-	225,000	-	-	$ 225,000
	Design	-	-		-	-	850,000	-	-	$ 850,000
	Construction	-	-		-	-	-	5,675,000	-	$ 5,675,000
	Construction Management	-	-		-	-	-	1,000,000	-	$ 1,000,000
	Environmental Mitigation	-	-		-	-		500,000	-	$ 500,000
	Project Management	-	-		-	-	20,000	50,000	-	$ 70,000
	Legal Services/Admin/ROW	-	-		-	-	200,000	30,000	-	$ 230,000
	Total	$ -	$ -		$ -		$ 1,295,000	$ 7,255,000	$ -	$ 8,550,000
Funding Sources:	Traffic Mitigation	-	-		-	-	250,000	-		$ 250,000
	Grants and other revenues	-	-		-	-	1,045,000	6,255,000		$ 7,300,000
	General Fund	-	-		-	-	-	1,000,000		$ 1,000,000
	Total	$ -	$ -		$ -	$ -	$ 1,295,000	$ 7,255,000	$ -	$ 8,550,000
Estimated O & M:										

Old Redwood Highway Bridges Replacement



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Old Redwood Highway Bridges Replacement

Project No: New

GL No:

Project Description:
Replace two deficient bridges on Old Redwood Highway at the Pool Creek and the Faught Creek crossings. The bridges will be replaced with structures that allow for 11' vehicular travel lanes, 6' to 8' sidewalks, and 6' bicycle lanes. Safety rails and guard rail (if necessary) will be included. State Highway Bridge funding programs and Federal funding opportunities will be considered to help fund this project. Costs provided are for initial application development for highway bridge program.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
These bridges were built in 1925 and are, by today's standards, hydraulic inadequate and much too narrow to allow vehicles, pedestrians and bicycles to pass safely. They don't meet current safety standards and need to be removed and replaced.

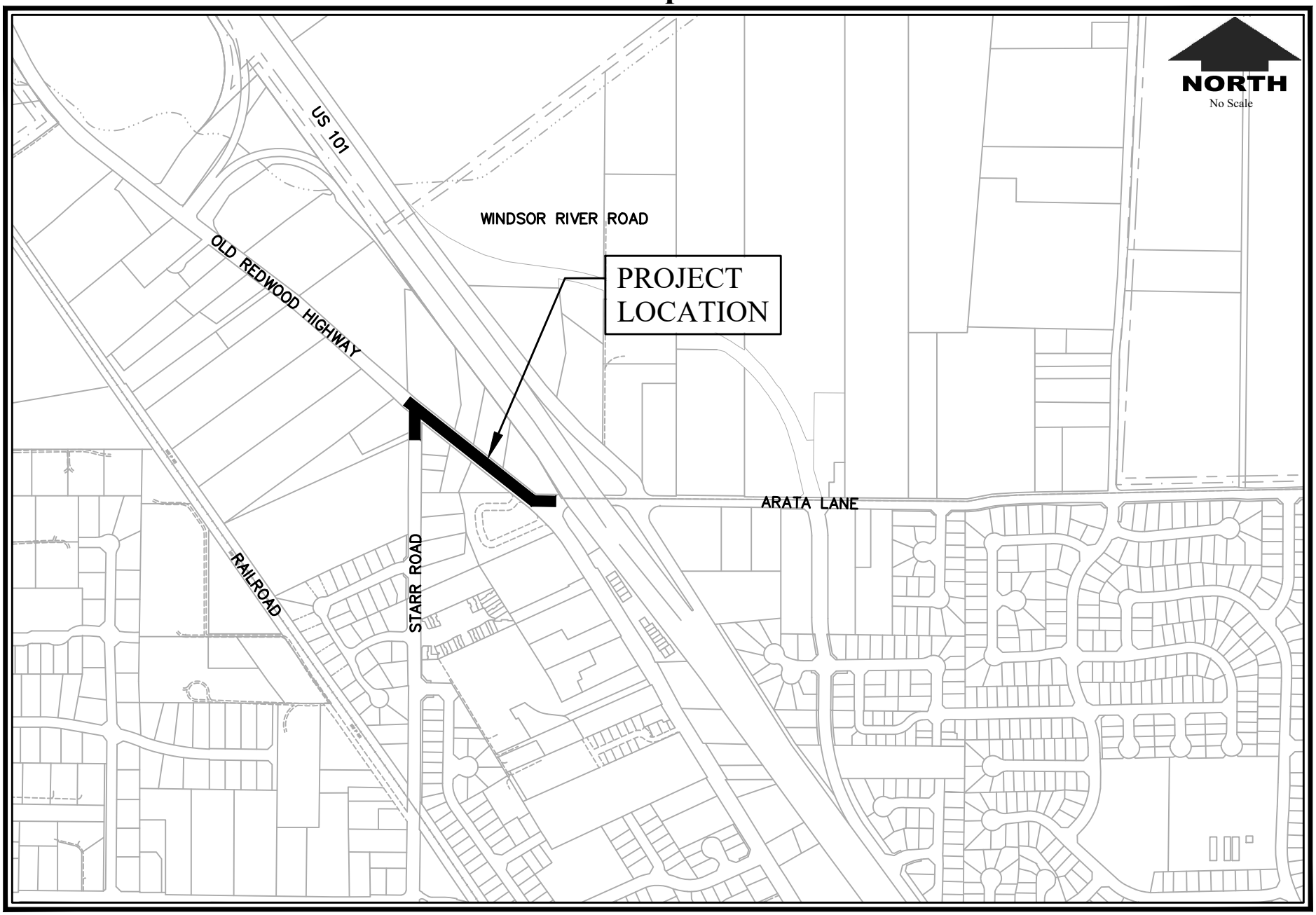
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The Project is consistent with General Plan Transportation Policies including Streets and Roadways Policy M-3.11 Bridge Maintenance - the Town shall continue to maintain the bridges throughout town and develop a plan for roadway and hydraulic capacity for the bridges to address future development.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Environmental/Prelim Design	-	-		-	-	200,000	-	-	$ 200,000
	Legal Services/Admin	-	-		-	-	2,000	-	-	$ 2,000
										$ -
										$ -
										$ -
					-					$ -
	Total	$ -	$ -		$ -	$ -	$ 202,000	$ -	$ -	$ 202,000
Funding Sources:	General Fund	-	-		-	-	202,000	-	-	$ 202,000
										$ -
										$ -
	Total	$ -	$ -		$ -	$ -	$ 202,000	$ -	$ -	$ 202,000
Estimated O & M:										

Old Redwood Highway from Starr Road to Arata Lane
Pedestrian Improvements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Old Redwood Highway from Starr Road to Arata Lane Pedestrian Improvements

Project No: New

GL No:

Project Description:
This intersection of Starr Road-ORH will be analyzed for a possible roundabout. The project consists of improvements at the Starr Road/ Old Redwood Highway intersection including; traffic signal improvements or roundabout, curb & gutter along the west side of the intersection, crosswalks across the north leg of Old Redwood Highway (ORH) and the west leg of Starr Road, an all-weather surface pathway connection from the Arata Lane crosswalk to the existing sidewalk on the west side of ORH, and related drainage improvements. Construction costs are to be determined and construction is expected in FY 23/24.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
The intersection of ORH with Starr Road is challenging for pedestrians and bicyclists due to lack of facilities. The west side of the intersection is a wide radius and the bike lanes on ORH drop off. This intersection has no pedestrian crossings. Sidewalks are present on the south corner although there are several sidewalk gaps on the east side on Starr Road (one recently eliminated) and the sidewalk on the west side stops before the intersection. The existing signal does not detect pedestrians. At Arata Lane, a sidewalk gap on the west side of ORH impedes connectivity. An AC path with drainage improvements would improve access for pedestrians and bicyclists.

Appropriations beyond the 5 year program period are needed to complete project:

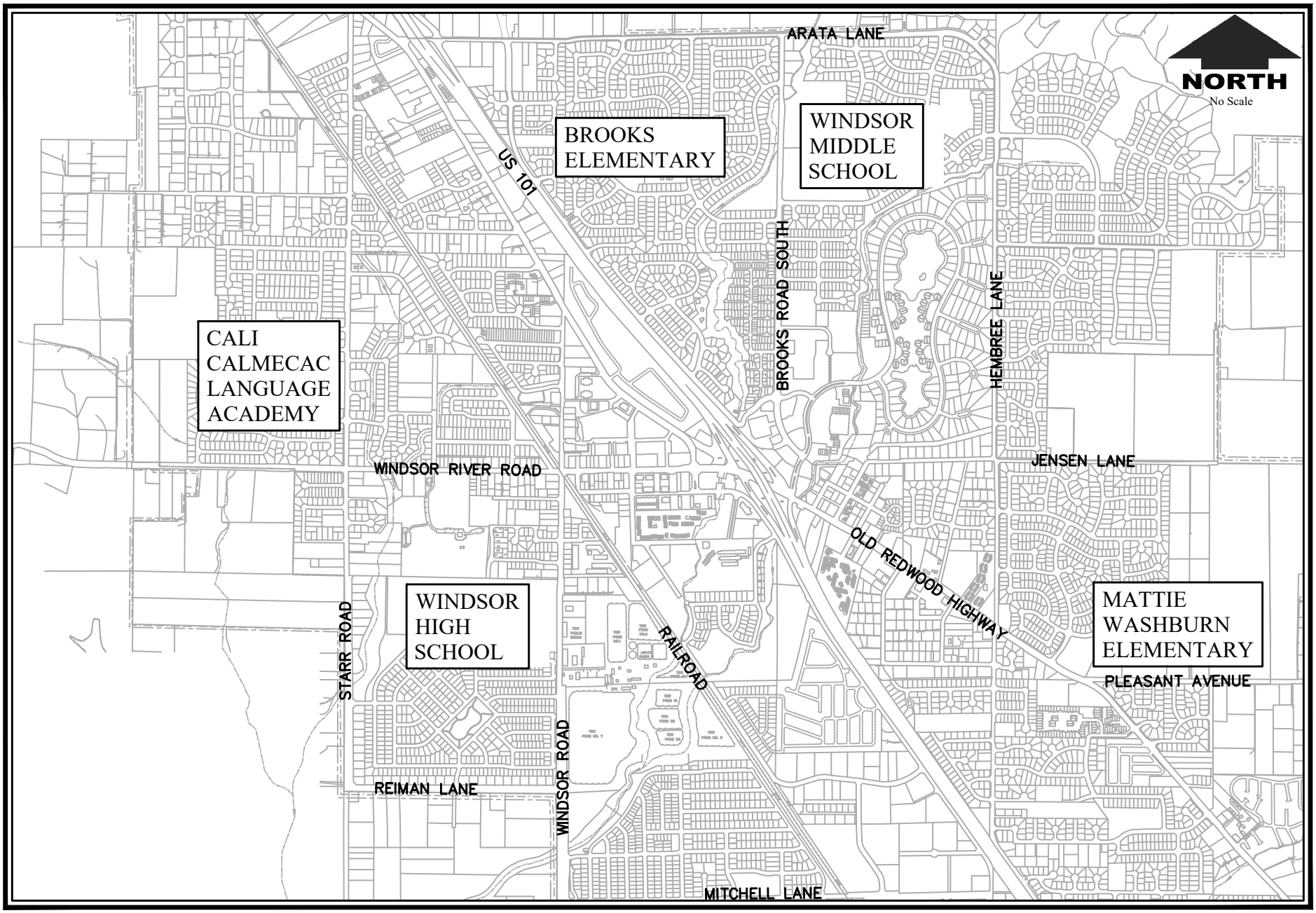
YES ( )
NO (X)

General Plan Consistency:

The Project is consistent with General Plan Transportation Policies including Multimodal Circulation System Policy M-1.1 Multimodal Transportation System - the Town shall continue to implement a multimodal transportation system that connects residents to activity centers throughout and near town, such as commercial centers and corridors, employment centers, the SMART train stop, the airport, schools, parks, recreation areas, and other attraction.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Prelim/Final Design	-	-		-	-	225,000	-	-	$ 225,000
	Construction	-	-		-	-	-	-	-	$ -
	Construction Management	-	-		-	-	-	-	-	$ -
	Legal Services/Admin	-	-		-	-	5,000	-	-	$ 5,000
	Project Management	-	-		-	-	-	-	-	$ -
										$ -
	Total	$ -	$ -		$ -	$ -	$ 230,000	$ -	$ -	$ 230,000
Funding Sources:	General Fund	-	-		-	-	230,000	-	-	$ 230,000
	Total	$ -	$ -		$ -	$ -	$ 230,000	$ -	$ -	$ 230,000
Estimated O & M:										

Safe Routes to School Crosswalk and Sidewalk Improvements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Safe Routes to School Crosswalk and Sidewalk Improvements

Project No: New

GL No:

Project Description:
Project includes bicycle and pedestrian improvements at various locations around Windsor schools as recommended by the Safe Routes to School Walking Audit Report. Improvements may include installation of high visibility crosswalks with rapid rectangular flashing beacons, sidewalk improvements, sidewalk bulb outs and various other ancillary improvements.

Department:
Public Works - Engineering

Priority:

_____	**Mandate**
X	**Necessary**
_____	**Desirable**

Justification:
Implementation of the Windsor Safe Routes to School program report. Providing bike/pedestrian facilities for a healthy community.

Appropriations beyond the 5 year program period are needed to complete project:

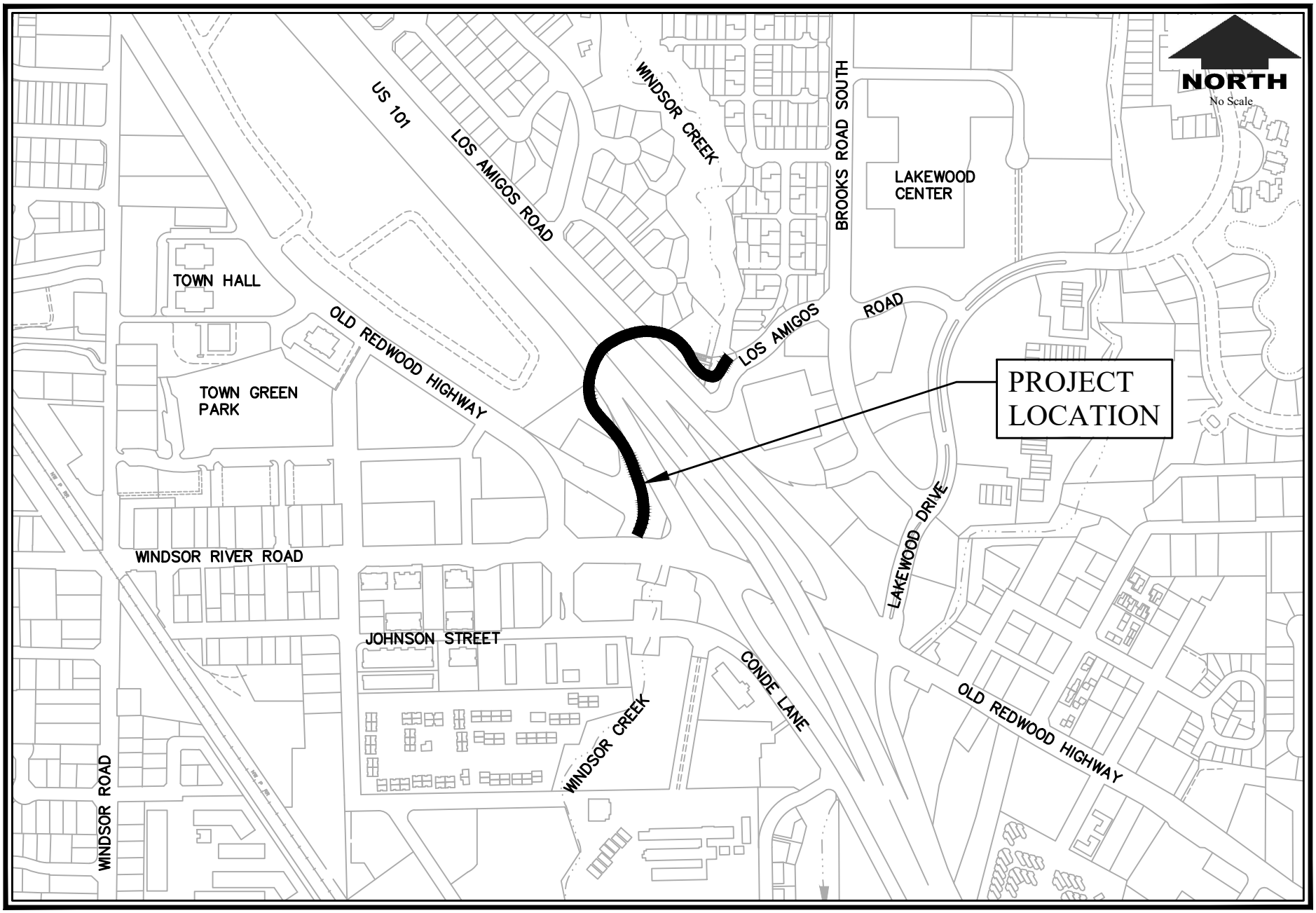
YES ( )
NO (X)

General Plan Consistency:

The Project is consistent with General Plan Transportation Policies including Walkable and Bikeable Community Policy M-4.10 Bicycle and Pedestrian Crossing Safety - the Town shall develop safe and convenient bikeways and pedestrian crossings that reduce conflicts between pedestrians, bicyclists, and motor vehicles on streets, multi-use trails, and sidewalk and Policy M-4.14 - Safe Routes to School - the Town shall continue to coordinate with the School District on implementation of the Safe Routes to School program to ensure a safe pedestrian and bicycling network to and from local educational facilities for all.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Environmental Review	-	-		-	-	3,000	3,000	3,000	$ 9,000
	Design	-	-		-	-	20,000	20,000	20,000	$ 60,000
	Project Management	-	-		-	-	5,000	5,000	5,000	$ 15,000
	Construction	-	-		-	-	150,000	150,000	150,000	$ 450,000
	Construction Management	-	-		-	-	20,000	20,000	20,000	$ 60,000
	Legal Services/Admin	-	-		-	-	2,000	2,000	2,000	$ 6,000
	Total	$ -	$ -			$ -	$ 200,000	$ 200,000	$ 200,000	$ 600,000
Funding Sources:	General Fund	-	-		-	-	200,000	200,000	200,000	$ 600,000
	Total	$ -	$ -		$ -	$ -	$ 200,000	$ 200,000	$ 200,000	$ 600,000
Estimated O & M:										

Downtown Pedestrian & Bicycle Crossing of US 101 Phase 2



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Downtown Pedestrian & Bicycle Crossing of US 101 Phase 2

Project No: New

GL No:

Project Description:
Caltrans Project Initiation Documents (PID) and Design and Environmental for the Downtown Crossing of US 101 Phase 2. This project includes design and construction of new bicycle and pedestian bridge overcrossing the US 101 with "touchdown" area at each end of the bridge on the east side of US 101 at Los Amigos Road and on the west side of the US 101 at Old Redwood Highway near the central Windsor gas stations.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
For all transportation modes, travel between important destinations on each side of the freeway is restricted to just three crossing locations within Windsor. The U.S. 101 at Central Windsor underpass on Old Redwood Highway is the primary link between the east and west sides of town. The Town has broader goal of creating a more cohesive and walkable downtown area by improving the existing U.S. 101 Old Redwood Highway crossing and creating a new dedicated bicycle/pedestrian crossing.

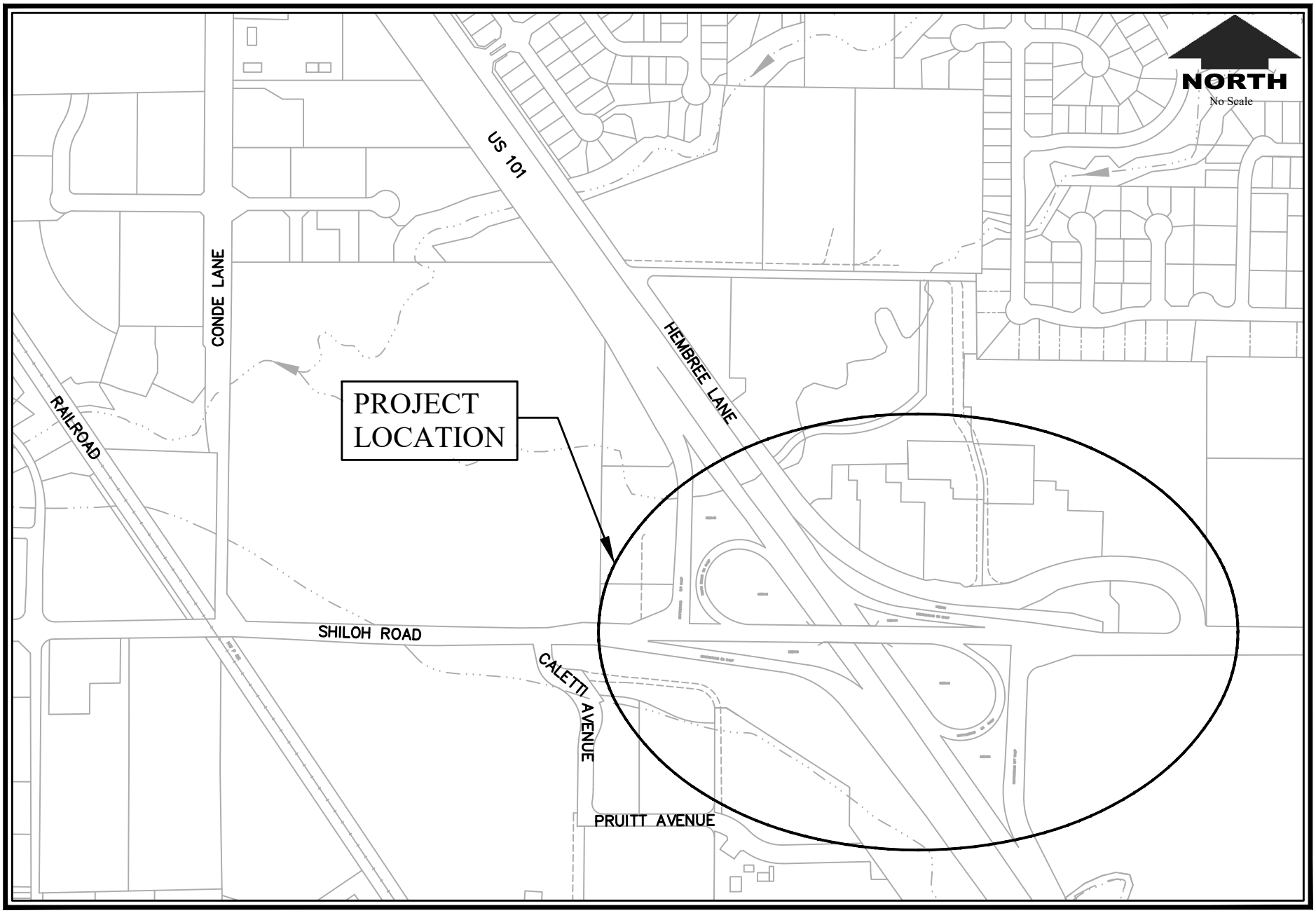
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The Project is consistent with General Plan Transportation Policies including Complete Streets Policy M-2.7 Complete Street Priority Areas - the Town shall prioritize complete streets improvements (e.g., bicycle, pedestrian, vehicle, and transit facilities) at and along U.S. Highway 101 interchanges, including Shiloh Road, Arata Lane, and Central Windsor.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Caltrans Oversight (PID)	-	-		-	-	-	150,000	100,000	$ 250,000
	Preliminary Engineering	-	-		-	-	-	800,000	-	$ 800,000
	Design & Environmental	-	-		-	-	-	-	-	$ -
	Project Management	-	-		-	-	-	10,000	-	$ 10,000
	Legal Services/Admin	-	-		-	-	-	-	-	$ -
	Right of Way (ROW)	-	-		-	-	-	-	-	$ -
	Total	$ -	$ -		$ -	$ -	$ -	$ 960,000	$ 100,000	$ 1,060,000
Funding Sources:	General Fund	-	-		-	-	-	960,000	100,000	$ 1,060,000
										$ -
										$ -
	Total	$ -	$ -		$ -	$ -	$ -	$ 960,000	$ 100,000	$ 1,060,000
Estimated O & M:										

US 101 Interchange Improvements at Shiloh Road



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
US 101 Interchange Improvements at Shiloh Road

Project No: New

GL No:

Project Description:
The Project Initiation Phase for the reconstruction of the Shiloh Road - US 101 Interchange to provide 2 lanes in each direction on the Shiloh overpass. It is anticipated that the existing overcrossing will be replaced and the ramps reconfigured, along with upgrading the signalized ramp intersections for improved operations at this location.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
Shiloh Road has or is planned to have 2 lanes in each direction at this location. The interchange will be reconstructed to accommodate the additional lanes. All on/off-ramps will be reconstructed as part of the improvements. This project will improve bicycle/pedestrian connectivity between the east and west sides of town.

Appropriations beyond the 5 year program period are needed to complete project:

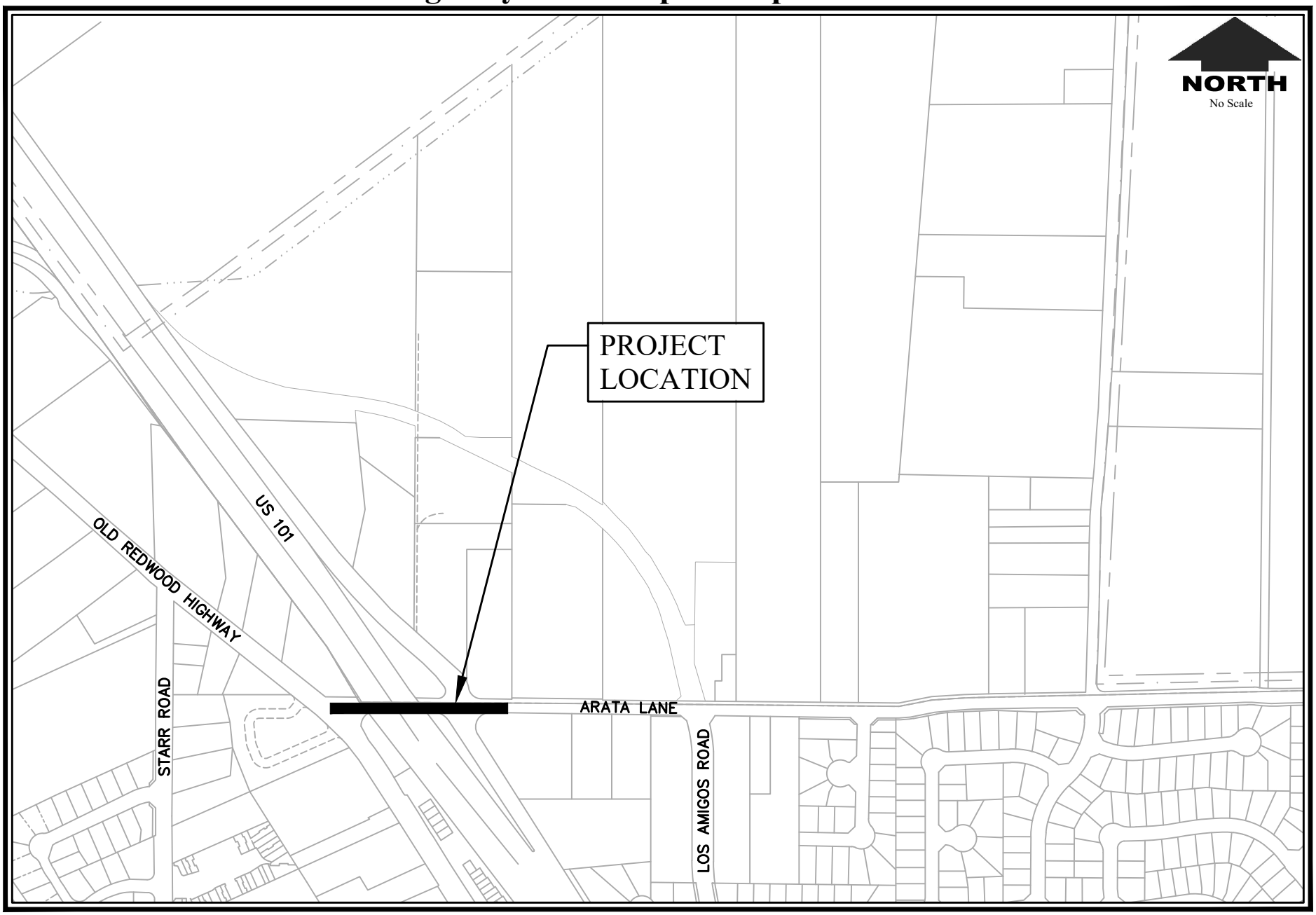
YES (X)
NO ( )

General Plan Consistency:

The Project is consistent with General Plan Transportation Policies including Complete Streets Policy M-2.7 Complete Street Priority Areas - the Town shall prioritize complete streets improvements (e.g., bicycle, pedestrian, vehicle, and transit facilities) at and along U.S. Highway 101 interchanges, including Shiloh Road, Arata Lane, and Central Windsor.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Project Initiation Document (PID)	-	-	-	-	-	250,000	-	$ 250,000
	Project Management	-	-	-	-	-	50,000	50,000	$ 100,000
	Total	$ -	$ -	$ -	$ -	$ -	$ 300,000	$ 50,000	$ 350,000
Funding Sources:	Traffic Mitigation	-	-	-	-	-	300,000	50,000	$ 350,000
	Total	$ -	$ -	$ -	$ -	$ -	$ 300,000	$ 50,000	$ 350,000
Estimated O & M:									

Arata Lane Interchange Phase 2D for Highway 101 Overpass Improvements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Arata Lane Interchange Phase 2D for Highway 101 Overpass Improvements

Project No: New

GL No:

Project Description:
Project Initiation Phase for the reconstruction of the Highway 101 Overpass to allow for widening of Arata Lane.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
Completion of the Arata Lane Interchange at Highway 101. Phase I - Southbound On-Ramp and Northbound Off-Ramp Project and Phase 2A - Southbound Off-Ramp Project have been completed. Remaining improvements to be constructed include: Phase 2B - Los Amigos Road Realignment, Phase 2C - Northbound On-Ramp and Phase 2D - Arata Lane Widening/Reconstruction of Highway 101 Overpass.

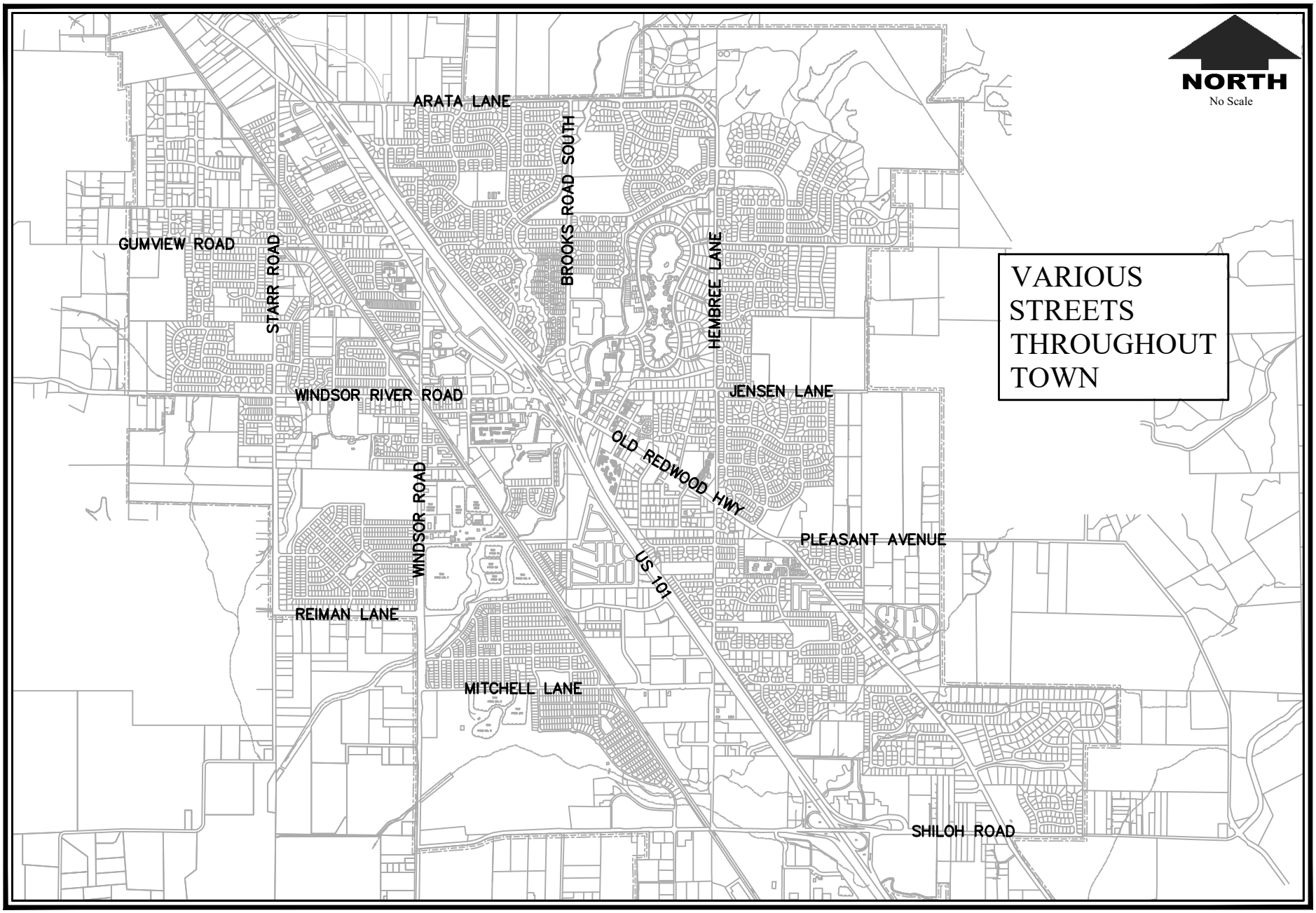
Appropriations beyond the 5 year program period are needed to complete project:

YES (X)
NO ( )

General Plan Consistency:
The Project is consistent with General Plan Transportation Policies including Complete Streets Policy M-2.7 Complete Street Priority Areas - the Town shall prioritize complete streets improvements (e.g., bicycle, pedestrian, vehicle, and transit facilities) at and along U.S. Highway 101 interchanges, including Shiloh Road, Arata Lane, and Central Windsor.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Project Initiation Document (PID)*	-	-	-	-	-	-	200,000	$ 200,000
	Project Management	-	-	-	-	-	-	100,000	$ 100,000
									$ -
									$ -
									$ -
									$ -
	Total	$ -	$ -	$ -	$ -	$ -	$ -	$ 300,000	$ 300,000
Funding Sources:	Traffic Mitigation	-	-	-	-	-	-	-	$ -
									$ -
									$ -
	Total	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Estimated O & M:									

FY 2021-2024 Town Wide Street Resurfacing



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
FY 2021-24 Town Wide Street Resurfacing

Project No: New
GL No: 010-63-25-20XX-4510-000
GL No: 111-63-25-20XX-4510-000
GL No: 110-81-25-20XX-4510-000

Project Description:
The program is a continuation of our annual street resurfacing program and includes continued slurry sealing streets and will include the southeast and southwest quadrants of the Town. This work is needed to keep the Town's Pavement Condition Index (PCI) at a "good" level as supported by Council.
* Partially funded by Measure M-Transportation Grant

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
Investing in the on-going maintenance of Town streets reduces the deterioration of pavement and extends the useful life of Town streets. An annual pavement maintenance plan is considered a best management maintenance program. Proper maintenance will reduce future operation and maintenance costs. The goal is to maintain an annual expenditure of $1.2 million but has not been committed due to General Fund constraints and the commitment of funds to the Windsor River Road/Windsor Road Intersection Project.

Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The Project is consistent with General Plan Transportation Policies including Streets & Roadways Policy M-3.9 Pavement Management Program - the Town shall maintain and implement the Pavement Management Program (PMP) which is set to provide the guidance to apply for grant funding through MTC to maintain and rehabilitate the Town Roads and M-3.10 Pavement Condition Index (PCI) - the Town shall continue to provide street maintenance to sustain high Pavement Condition Index (PCI) levels in order to maintain high quality roads.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-				80,000	80,000	80,000	240,000
	Construction	-	-				1,010,000	1,010,000	1,010,000	3,030,000
	Construction Management	-	-				100,000	100,000	100,000	300,000
	Legal Services/Admin	-	-				5,000	5,000	5,000	15,000
	Project Management	-	-				5,000	5,000	5,000	15,000
	Total	$ -	$ -		$ -	$ -	$ 1,200,000	$ 1,200,000	$ 1,200,000	$ 3,600,000
Funding Sources:	General Fund	-	-				490,000	490,000	490,000	1,470,000
	Transp. Grant Fund:	-	-				-	-	-	-
	Measure M	-	-				250,000	250,000	250,000	750,000
	Gas Tax (SB 1)						460,000	460,000	460,000	1,380,000
	Total	$ -	$ -		$ -	$ -	$ 1,200,000	$ 1,200,000	$ 1,200,000	$ 3,600,000
Estimated O & M:										

WATER PROJECTS

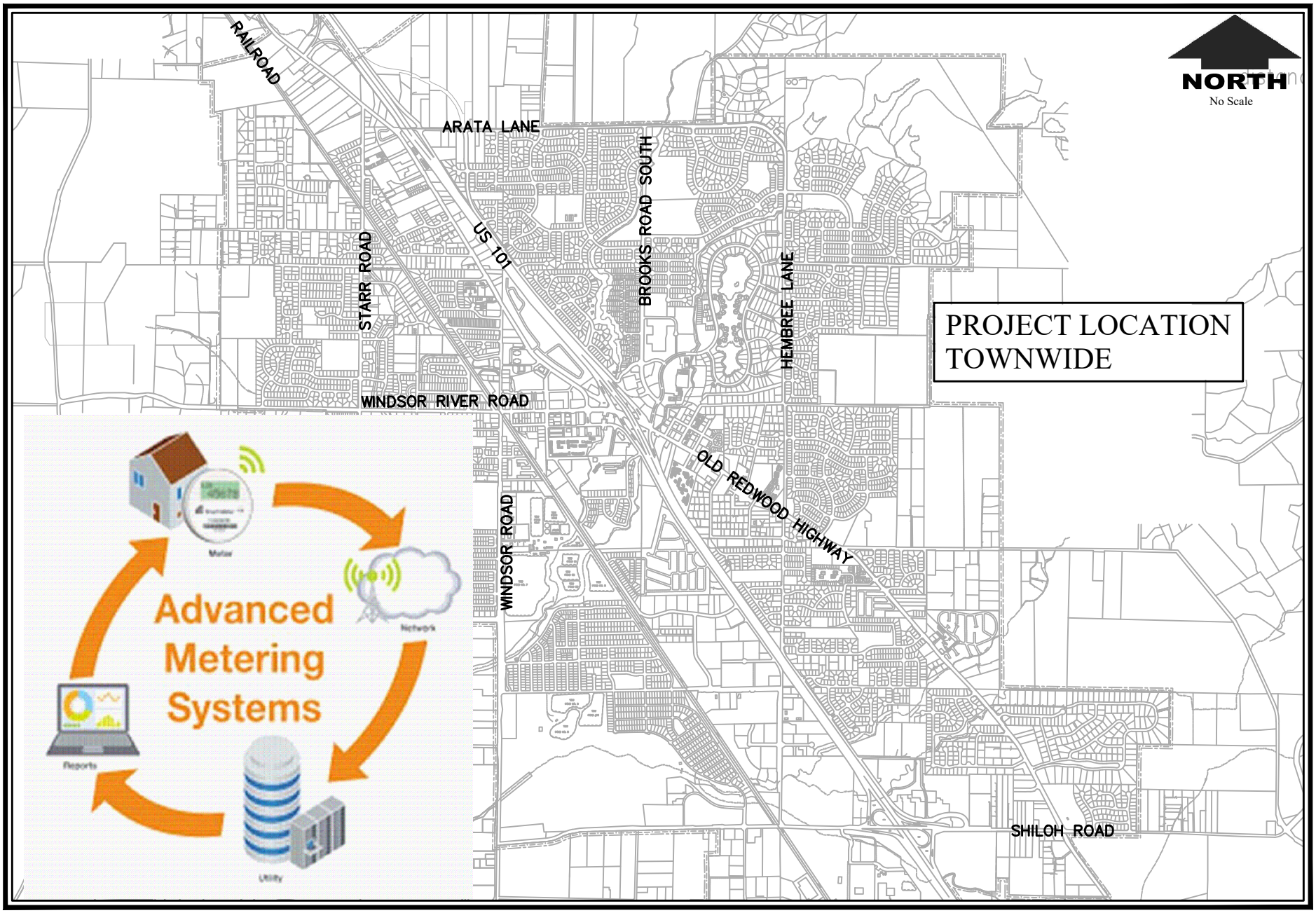


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APPROPRIATIONS PLAN SUMMARY FOR
WATER PROJECTS

PROJECT	Page No.	Project No.	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	TOTAL
Townwide Advanced Metering Infrastructure (AMI)	W - 3	1822	225,000	-	-	-	-	**$ 225,000**
Meter Flow Testing Improvements at Russian River Well Field	W - 5	2060	50,000	300,000	-	-	-	**$ 350,000**
Shiloh Tank Site #2 Enclosures	W - 7	1312	-	96,400	-	-	-	**$ 96,400**
Oceanview Pond Recycled Water Connection Upgrade	W - 9	1821	-	106,000	-	-	-	**$ 106,000**
Esposti Municipal Well Head and Treatment Systems	W - 11	1310	-	-	500,000	2,050,000	-	**$ 2,550,000**
Turnberry Court Pipe Improvements	W - 13	New	-	-	573,000	-	-	**$ 573,000**
Century Court Pipe Improvements	W - 15	New	-	-	-	698,000	-	**$ 698,000**
Wild Oak Water Service Replacements	W - 17	New	-	-	-	-	953,000	**$ 953,000**
North Windsor Supply Well	W - 19	New	-	-	-	-	775,000	**$ 775,000**
New Well at Russian River Well Field	W - 21	New	-	-	-	-	500,000	**$ 500,000**
Savannah Way and Merner Drive Pipe Construction	W - 23	New	-	-	-	-	325,000	**$ 325,000**
Water Transmission Reliability at Russian River Well Field West of Eastside Road	W - 25	New	-	-	-	-	1,792,000	**$ 1,792,000**
Windsor River Road/Windsor Road Intersection Utility Improvements	W - 27	2061	3,265,000	-	-	-	-	**$ 3,265,000**
TOTAL APPROPRIATIONS			**$ 3,540,000**	**$ 502,400**	**$ 1,073,000**	**$ 2,748,000**	**$ 4,345,000**	**$ 12,208,400**

Townwide Advanced Metering Infrastructure (AMI)



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Townwide Advanced Metering Infrastructure (AMI)

Project No: 1822

GL No: 460-83-25-1822-4510-000

Project Description:
Complete the final phase of automated meter-reading program. This project is completion of the Advanced Metering Infrastructure (AMI) system and includes the installation of collectors and transmitters in the field equipped with GPS antennas and cellular WAN. Also included in the project is software, implementation and staff training for the AMI system.

Department:
Public Works - Engineering

Priority:

	Mandate
	Necessary
X	**Desirable**

Justification:
All of the Town's potable water meters have been upgraded from manual-read (only) to AMR/AMI compatible meters. The Town system is fully compatible to support an AMI meter-reading and billing system. The final phase of AMI is to install collectors and transmitters within the District service areas and will also include software and hardware to transmit meter data to the Utility Billing Department. The AMI will support water conservation and leak detection with real-time data and analysis for both the Town and customers.

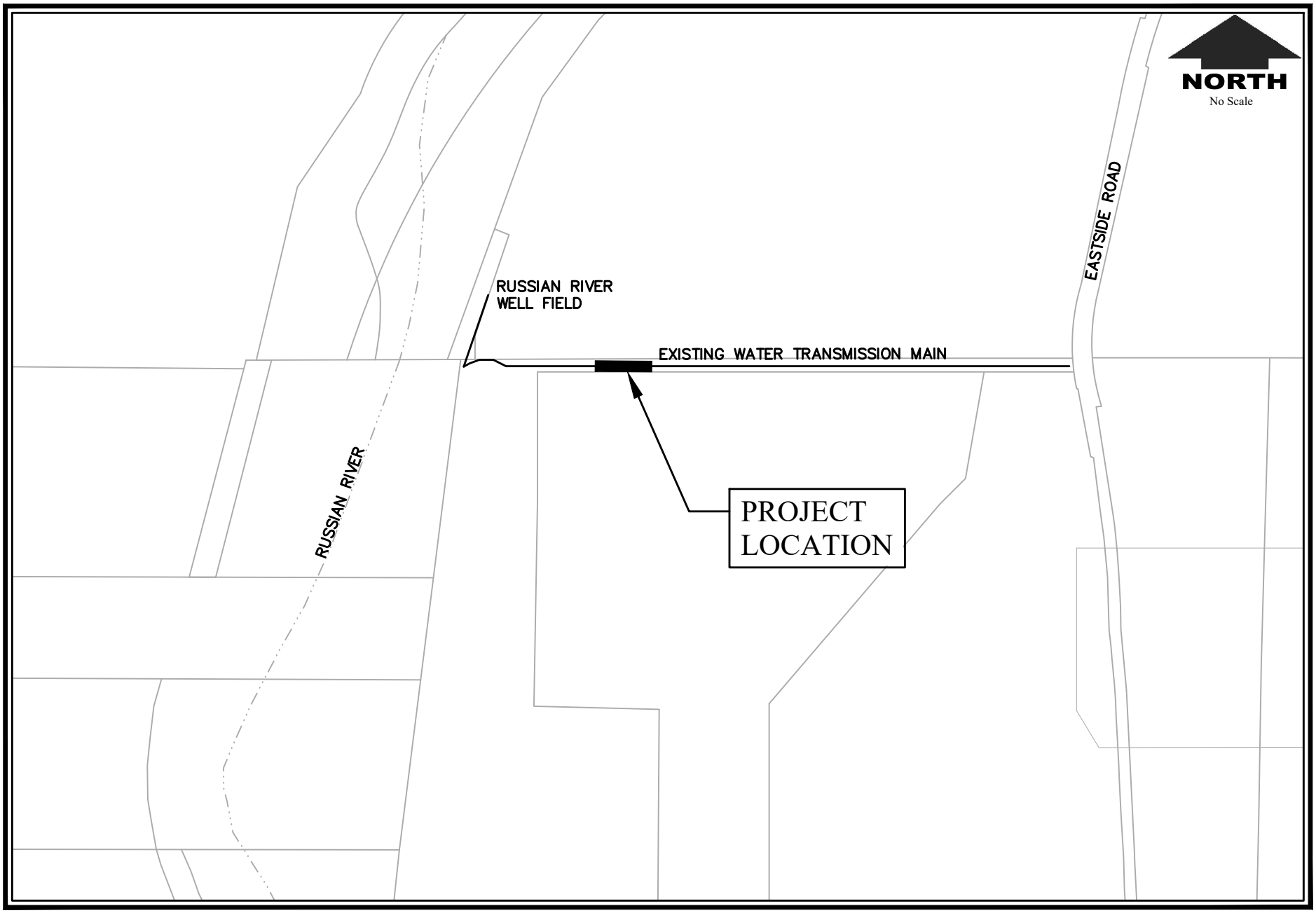
Appropriations beyond the 5 year program period are needed to complete project:

YES **( )**
NO **(X)**

General Plan Consistency:
The Project is consistent with General Plan Public Facilities and Services Policy PFS-1.2 - The Town shall continue the offer professional, high-quality service that meets the needs of residents and business.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project	Design	-	-		20,000	-	-	-	-	$ 20,000
	Construction	-	-		175,000	-	-	-	-	$ 175,000
Costs:	Project Management/Admin.	-	-		5,000	-	-	-	-	$ 5,000
	Contingency	-	-		25,000	-	-	-	-	$ 25,000
	Total	$ -	$ -		$ 225,000	$ -	$ -	$ -	$ -	$ 225,000
Funding Sources:	Water Capital	-	-		225,000	-	-	-	-	$ 225,000
										$ -
	Total	$ -	$ -		$ 225,000	$ -	$ -	$ -	$ -	$ 225,000
Estimated O & M										

Meter Flow Testing Improvements at Russian River Well Field



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Meter Flow Testing Improvements at Russian River Well Field

Project No: 2060

GL No: 460-83-25-2060-4510-000

Project Description:
Design and construction of well-field pipeline improvements for flow meter testing at the Russian River Well Field.

Department:
Public Works Engineering

Priority:
X **Mandate**
_____ **Necessary**
_____ **Desirable**

Justification:
The purpose of this project is to design and construct an insertion meter tap in the well-field pipeline to meet volumetric flow testing requirements for the primary water production meter as required by the State Water Board. The project also improves water production data validity for annual water loss audits required by the Department of Water Resources.

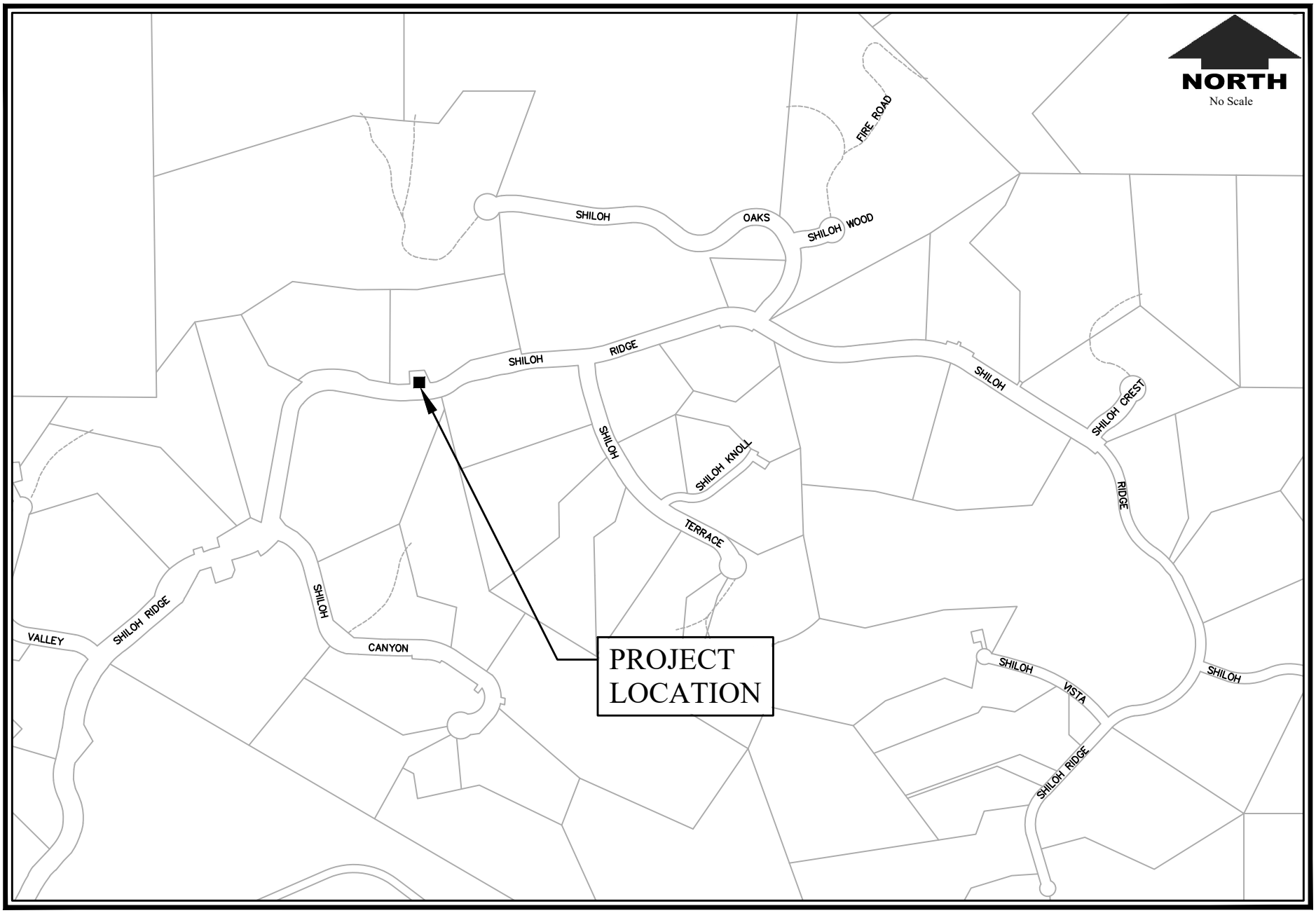
Appropriations beyond the 5 year program period are needed to complete project:

YES **( )**
NO **(X)**

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-2.1 - The Town shall maintain, implement and periodically update the Master Plan to ensure the reliability and efficiency of the Town's water distribution system, and Policy PFS-2.6 - The Town shall achieve a 20 percent reduction in per-capita water use by 2020 consistent with the States 20x2020 Water Conservation Plan.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-		50,000		-	-	-	$ 50,000
	Construction	-	-			300,000	-	-	-	$ 300,000
	Total	$ -	$ -		$ 50,000	$ 300,000	$ -	$ -	$ -	$ 350,000
Funding Sources:	Water Capital Fund	-	-		50,000	300,000	-	-	-	$ 350,000
	Total	$ -	$ -		$ 50,000	$ 300,000	$ -	$ -	$ -	$ 350,000
Estimated O & M										

Shiloh Tank Site #2 Enclosures



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Shiloh Tank Site #2 Enclosures

Project No: 1312

GL No: 460-83-25-1312-4510-000

Project Description:
Provide CMU block building and fence enclosure for pumps located at Shiloh Water Tank Site #2.

Department:
Public Works - Engineering

Priority:

_____	**Mandate**
_____	**Necessary**
X	**Desirable**

Justification:
The booster pumps located at the Shiloh 2 tank site are housed in a wooden box which requires maintenance staff to crawl into the box to perform inspection/maintenance. This project will replace the box with a small building and fence enclosure to keep the pumps secure and weather tight, and allow for easier access for maintenance personnel.

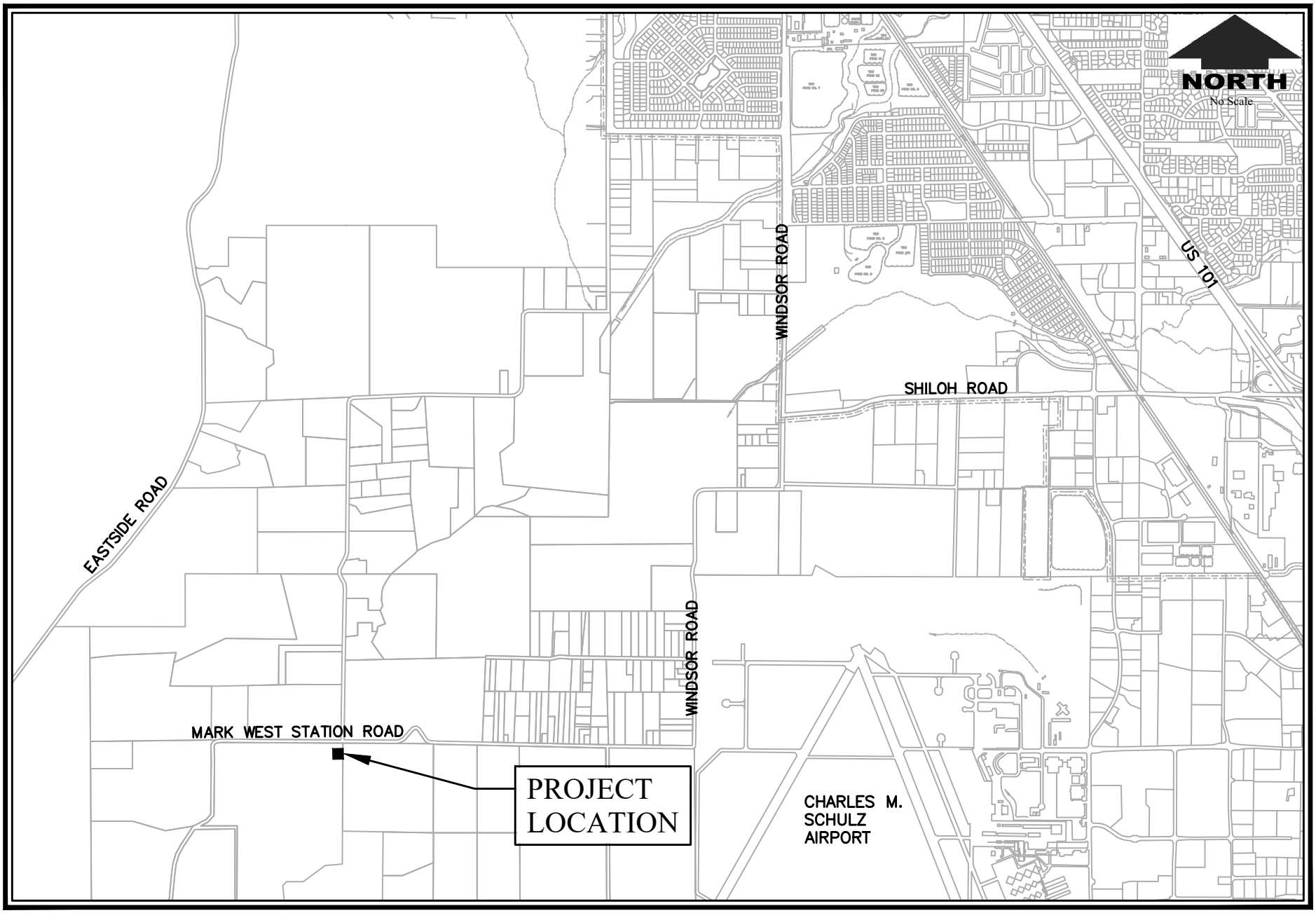
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The Project is consistent with General Plan Public Facilities and Services Policy PFS-1.7 - The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design/Environmental	10,000	-	-	11,000	-	-	-	$ 11,000
	Construction	58,000	-	-	63,400	-	-	-	$ 63,400
	Project Management	10,000	-	-	11,000	-	-	-	$ 11,000
	Legal Services/Admin	10,000	-	-	11,000	-	-	-	$ 11,000
	Total	$ 88,000	$ -	$ -	$ 96,400	$ -	$ -	$ -	$ 96,400
Funding Sources:	Water Capital	88,000	-	-	96,400	-	-	-	96,400
	Total	$ 88,000	$ -	$ -	$ 96,400	$ -	$ -	$ -	$ 96,400
Estimated O & M									

Oceanview Pond Recycled Water Connection Upgrade



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Oceanview Pond Recycled Water Connection Upgrade

Project No: 1821

GL No: 460-83-25-1821-4510-000

Project Description:
Construct a two-way connection between the Town of Windor's recycled water main and the Sonoma County Water Agency's (Sonoma Water) Oceanview recycled water pond.

Department:
Public Works - Engineering

Priority:

	Mandate
	Necessary
X	**Desirable**

Justification:
Currently, the Town can transfer recycled water unidirectionally into the Sonoma Water's Oceanview Pond; however, the Town cannot recieve water back from Oceanview Pond. Construction of this two-way connection would allow greater flexibility in storage for both the Town and Sonoma Water, and could potenitally lead to less recylced water discharged to Mark West Creek and potentially provide for additional recycled water for Windsor customers during the spring and fall months when recycled water storage is low. This project is funded under the water fund because the project is part of the recylced water distribution system.

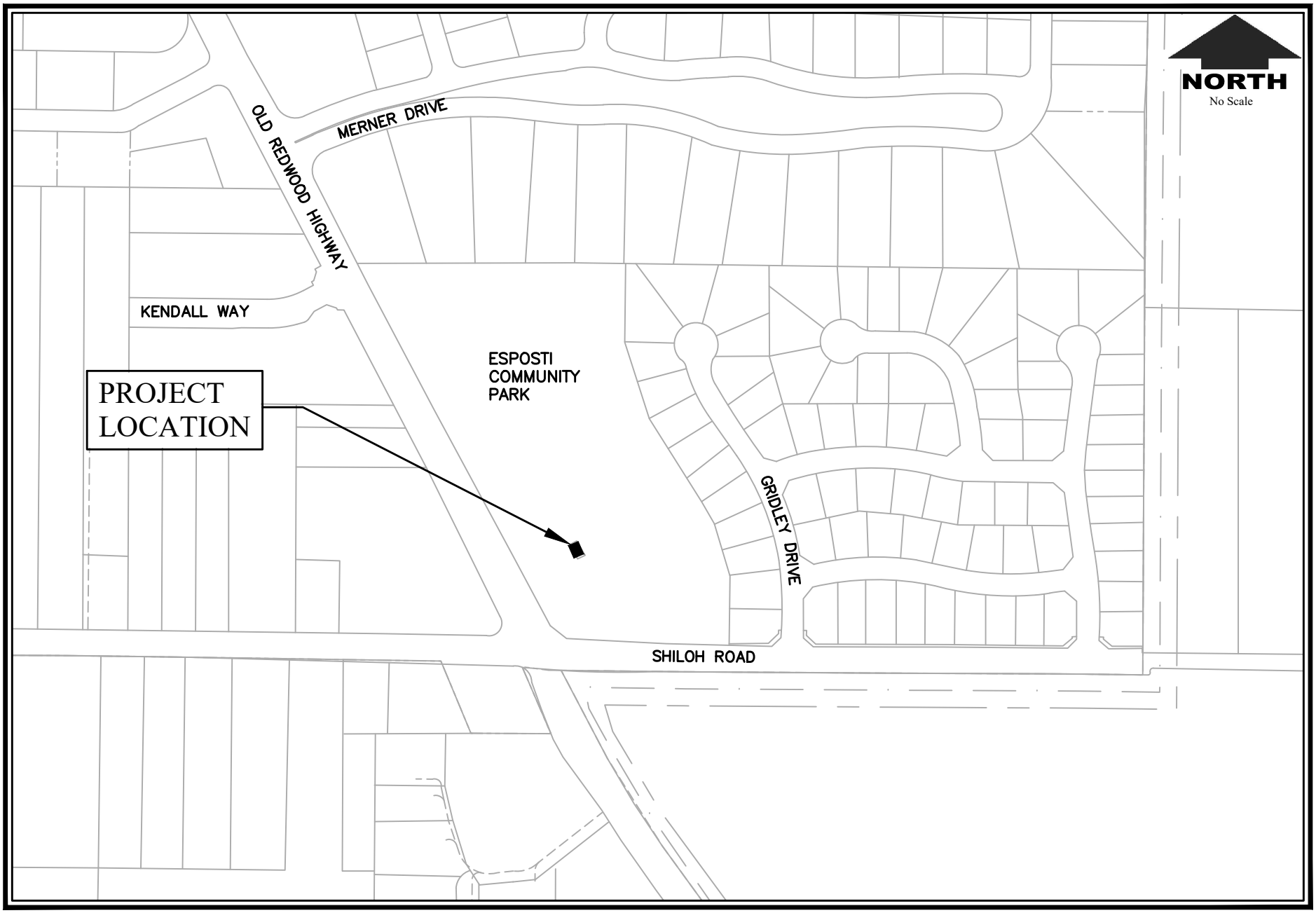
Appropriations beyond the 5 year program period are needed to complete project:

YES (X)
NO ( )

General Plan Consistency:
The Project is consistent with General Plan Public Facilities and Services Policy PFS-2.5- The Town shall continue to support the beneficial reuse of recycled water and the joint use of facilities including reservoirs, distribution mains, and pumping facilities for the use of recycled water when such joint use benefits the environment.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design/Environmental	-	-		-	11,000	-	-	-	$ 11,000
	Construction	-	-		-	95,000	-	-	-	$ 95,000
	Construction Engineering	-	-		-		-	-	-	$ -
	Project Management/Admin.	-	-		-		-	-	-	$ -
										$ -
	Total	$ -	$ -		$ -	$ 106,000	$ -	$ -	$ -	$ 106,000
Funding Sources:	Water Capital Fund	-	-		-	106,000	-	-	-	$ 106,000
										$ -
	Total	$ -	$ -		$ -	$ 106,000	$ -	$ -	$ -	$ 106,000
Estimated O & M										

Esposti Municipal Well Head and Water Treatment System



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Esposti Municipal Well Head and Treatment Systems

Project No: 1310

GL No:

Project Description:
Design and construct wellhead treatment for the existing Esposti Park potable well. The project includes evaluation of treatment options, environmental issues and location, as required. This project is identified in the Water Master Plan Update as Project W-2 and has been refined since 2017. This project will be phased with the North Windsor water supply well as recommended in the Esposti Well Feasibility Study.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
Wellhead treatment for the existing Esposti Park Well would allow existing groundwater that is currently used for irrigation to meet potable water standards. Wellhead treatment could generate about 350 AFY of water to enhance the Town's water supply to meet current demands in periods of drought and/or emergency and to meet increase maximum day demand as the Town's demand increases over time. It is estimated that the well would be expected to provide 400 gallons per minute (gpm), or 0.5 MGD. Treatment facilities for arsenic and manganese were assumed in the costs for this project and will be evaluated with other options before moving forward with construction. Costs assume the well will be located on Town-owned property and no land purchase costs are included.

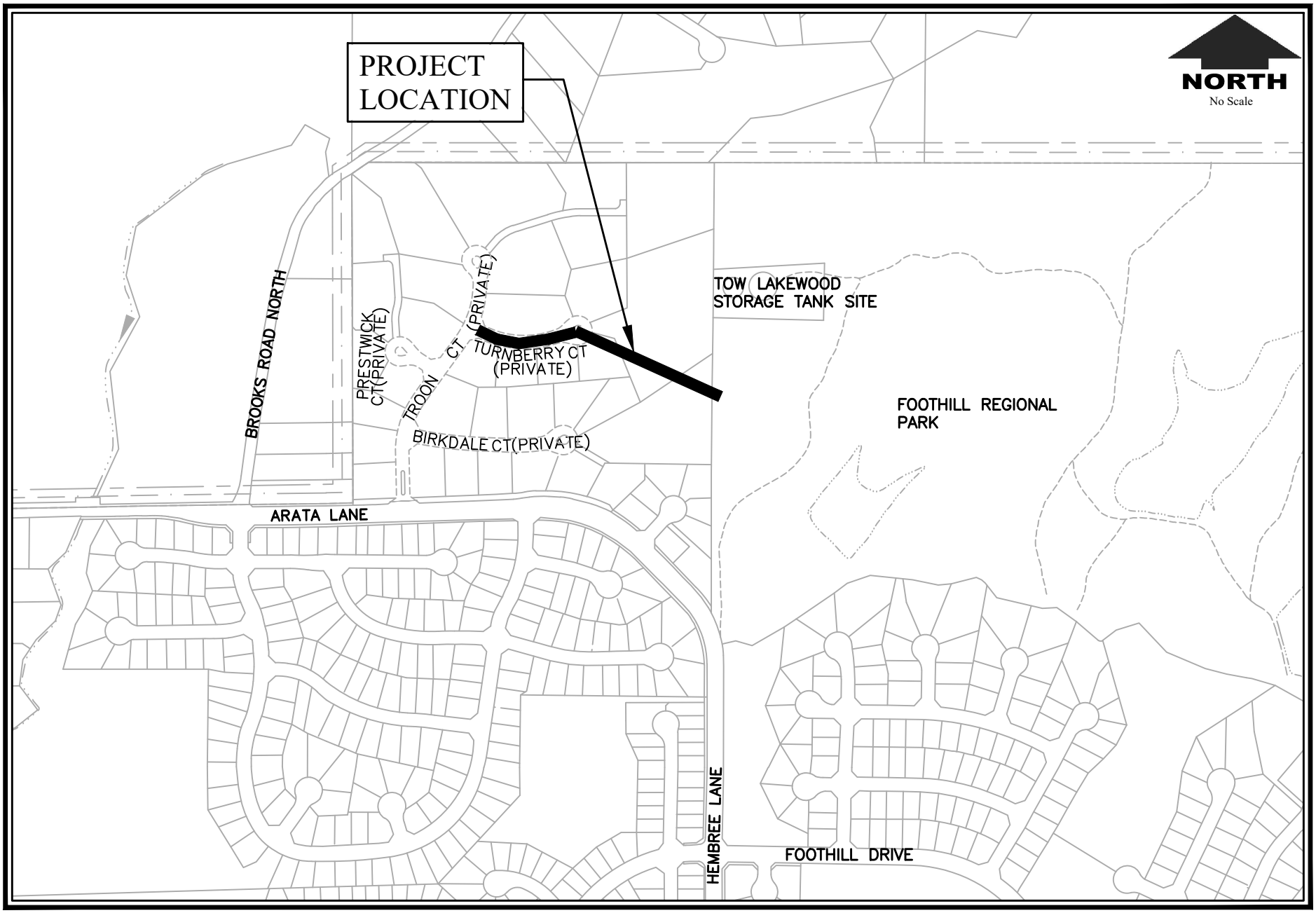
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The Project is consistent with General Plan Public Facilities and Servies Policy PFS-2.2 - The Town shall maintain the Urban Water Management Plan to adequately estimate projecte water demands and supplies over the planning horizon for average and drought year conditions; and shall implement water supply projects to provide a reliable supply during all water conditions.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design/Environmental	-	-		-	-	500,000	-	-	$ 500,000
	Construction	1,754,350	-		-	-	-	1,720,000	-	$ 1,720,000
	Construction Engineering	150,000	-		-	-	-	98,000	-	$ 98,000
	Project Management/Admin.	32,000	-		-	-	-	232,000	-	$ 232,000
	Contingency	-	-		-	-	-	-	-	$ -
	Total	$ 1,936,350	$ -		$ -	$ -	$ 500,000	$ 2,050,000	$ -	$ 2,550,000
Funding Sources:	Water Capital Fund	1,936,350	-		-	-	500,000	2,050,000	-	$ 2,550,000
		-								
	Total	$ 1,936,350	$ -		$ -	$ -	$ 500,000	$ 2,050,000	$ -	$ 2,550,000
Estimated O & M										

Turnberry Court Pipe Improvements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Turnberry Court Pipe Improvements

Project No: New

GL No:

Project Description:
Remove and replace 420 ft of existing 8" pipe with 12" pipe along Turnberry Ct and install 550 ft of new 12" pipe through an easement to the Lakewood Tanks supply line.

NOTES: This project includes easement acquisition, costs of which are not included here. The final easement may impact the layout and length of the new 12" pipeline.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
This project is needed to meet pressure requirements under fireflow conditions at the end of Turnberry Ct. The addition of the pipe loop also serves as system redundancy for utilizing the Lakewood Tanks.

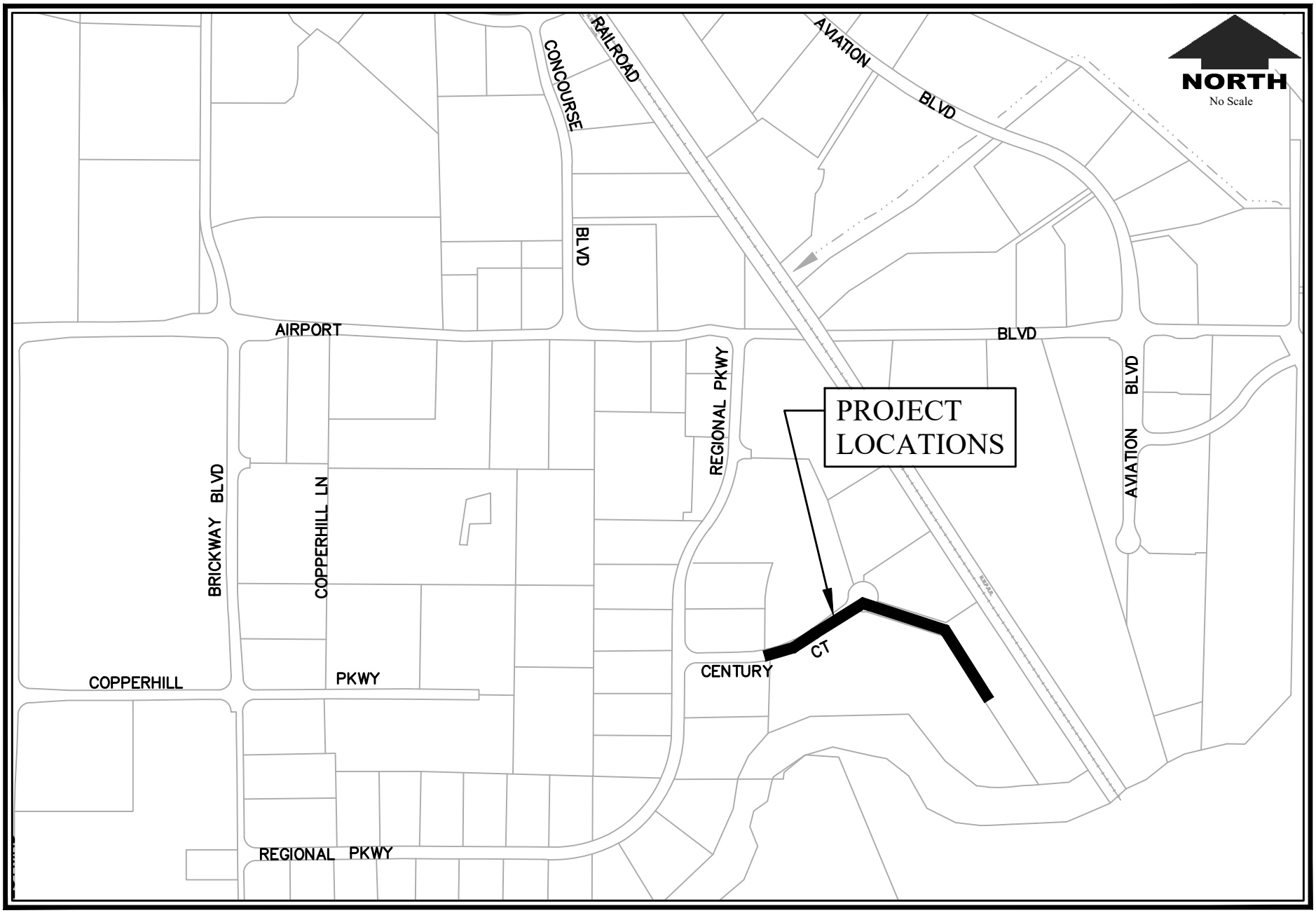
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-1.1 - The Town shall maintain the Capital Improvement Programming (CIP) to ensure the implementation of the General Plan and the adequate and timely provision of public facility and municipal utility improvement and Policy PFS-1.7 - The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design/Environmental/Permits	-	-		-	-	85,000	-	-	$ 85,000
	Construction	-	-		-	-	424,000	-	-	$ 424,000
	Project Management/Admin.	-	-		-	-	64,000	-	-	$ 64,000
	Total	$ -	$ -		$ -	$ -	$ 573,000	$ -	$ -	$ 573,000
Funding Sources:	Water Capital Fund	-	-		-	-	573,000	-	-	$ 573,000
	Total	$ -	$ -		$ -	$ -	$ 573,000	$ -	$ -	$ 573,000
Estimated O & M										

Century Court Pipe Improvements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Century Court Pipe Improvements

Project No: New

GL No:

Project Description:
Remove and replace 170 ft of existing 10" pipe with 12" pipe in Century Ct and remove and replace 830 ft of existing 8" pipe with 12" pipe in Century Ct and south into an easement.

NOTES: This project extends to the end of the Town-owned pipe. The pipe continues as a private fire line to the southeastern corner of the property.

Department:
Public Works Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
This project is needed to meet pressure requirements under fireflow conditions at the end of the Town-owned pipe south of Century Ct.

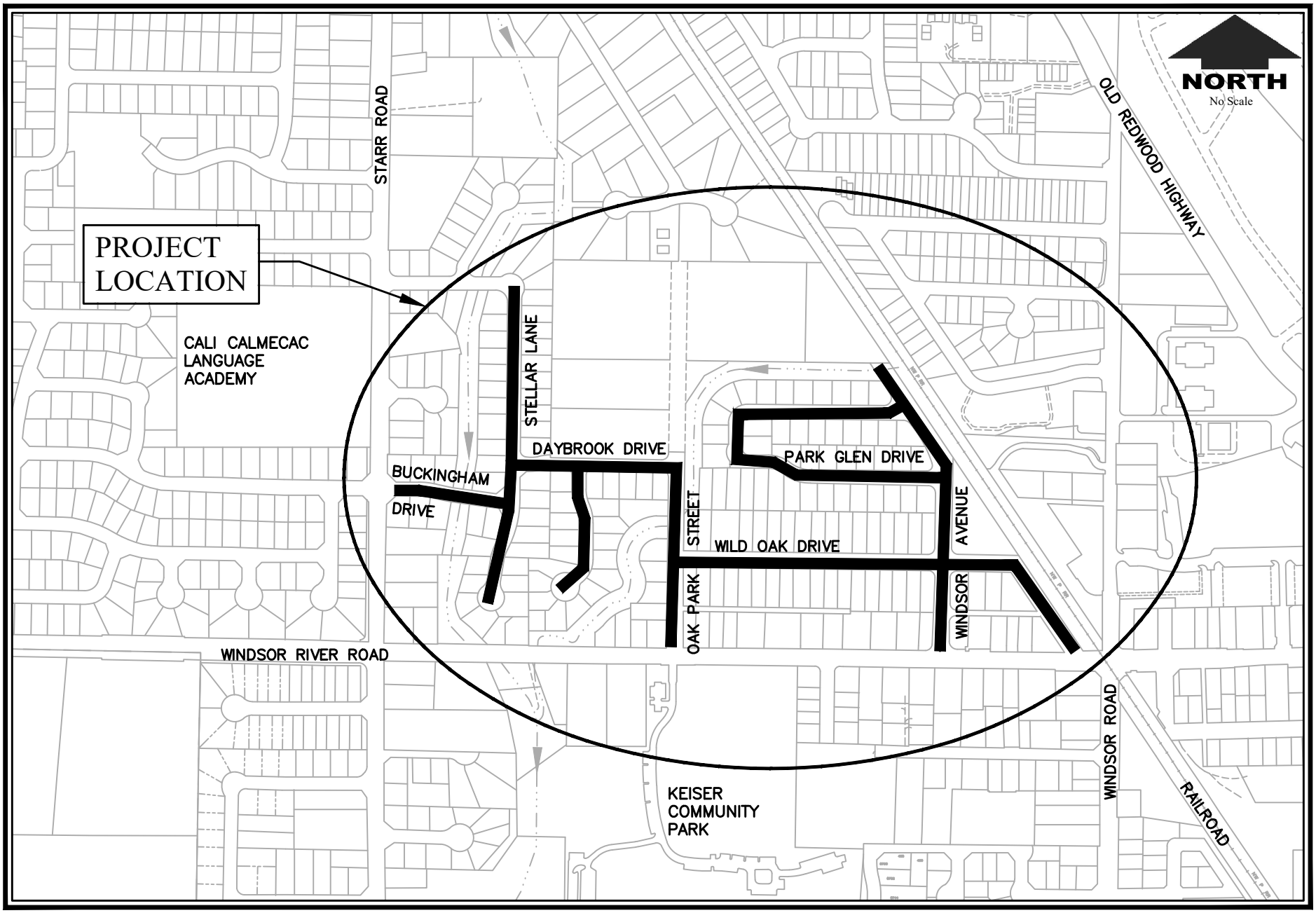
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
he project is consistent with General Plan Public Facilities and Services Policy PFS-1.1 - The Town shall maintain the Capital Improvement Programming (CIP) to ensure the implementation of the General Plan and the adequate and timely provision of public facility and municipal utility improvement and Policy PFS-1.7 - The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design/Environmental/Permits	-	-		-	-		109,000	-	$ 109,000
	Construction	-	-		-	-	-	512,000	-	$ 512,000
	Project Management/Admin.	-	-		-	-	-	77,000	-	$ 77,000
							-			
	Total	$ -	$ -		$ -	$ -	$ -	$ 698,000	$ -	$ 698,000
Funding Sources:	Water Capital Fund	-	-		-	-	-	698,000	-	$ 698,000
	Total	$ -	$ -		$ -	$ -	$ -	$ 698,000	$ -	$ 698,000
Estimated O & M										

Wild Oak Water Service Replacements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Wild Oak Water Service Replacements

Project No: New

GL No:

Project Description:
Replacement of approximately 215 water services including water service saddles, water service lateral piping, and isolation valves in the neighborhood of Wild Oak Drive Keiser Park.

Department:
Public Works - Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
The water services in the area of Wild Oak Drive are over 40 years old and due for replacement. The replacement of these services is planned just prior to resurfacing of the streets (pavement overlay) such that future replacement would not deface the newly paved street surface.

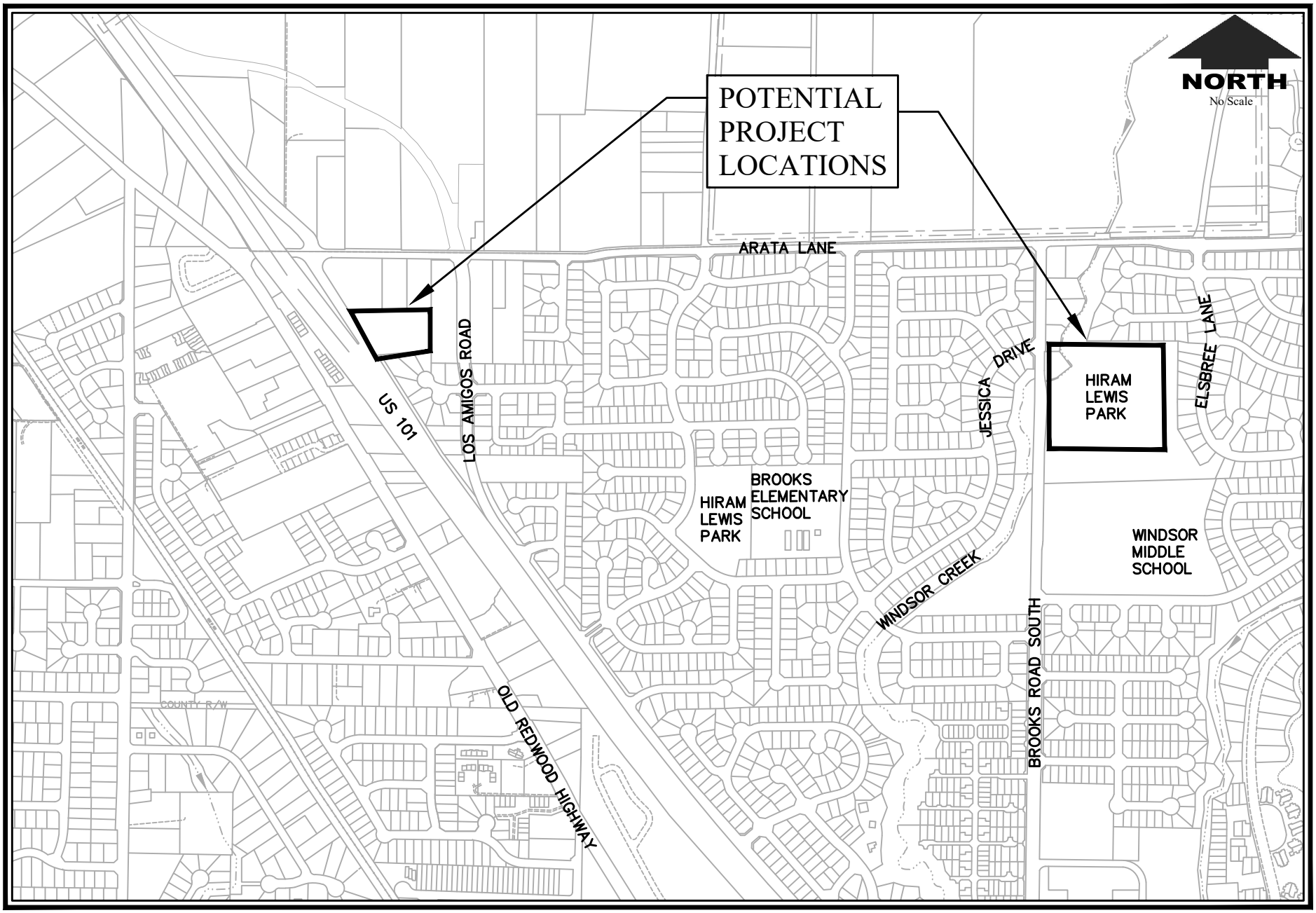
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The Project is consistent with General Plan Public Facilities and Services Policy PFS-1.7 - The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design/Environmental	-	-		-	-	-	-	38,000	$ 38,000
	Construction	-	-		-	-	-	-	796,000	$ 796,000
	Construction Engineering	-	-		-	-	-	-	103,000	$ 103,000
	Project Management	-	-		-	-	-	-	11,000	$ 11,000
	Legal Services/Admin	-	-		-	-	-	-	5,000	$ 5,000
	Total	$ -	$ -		$ -	$ -	$ -	$ -	$ 953,000	$ 953,000
Funding Sources:	Water Capital (50% match)	-	-		-	-	-	-	476,500	$ 476,500
	Water Grants (50% cost share)	-	-		-	-	-	-	476,500	$ 476,500
	Total	$ -	$ -		$ -	$ -	$ -	$ -	$ 953,000	$ 953,000
Estimated O & M										

North Windsor Supply Well



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
North Windsor Supply Well

Project No: New

GL No:

Project Description:
Construction of a new drinking water supply well in the northern Windsor area, including wellhead treatment, as required. This includes completing a test well to assess the water quality before installing a new municipal well. This project is identified in the Water Master Plan and was formerly the Hiram Lewis Park Supply Well project.

Department:
Public Works - Engineering

Priority:

_____ **Mandate**

__X__ **Necessary**

_____ **Desirable**

Justification:
Construction of a new well site in northern Windsor will provide an additional water supply to meet current demands in periods of drought and/or emergency and to meet increasing maximum day demand as the Town's demand increases over time. At this time, the new well site is expected to provide a minimum of 270 gpm, or 0.39 MGD. This project includes treatment facilities for iron and manganese (if required).

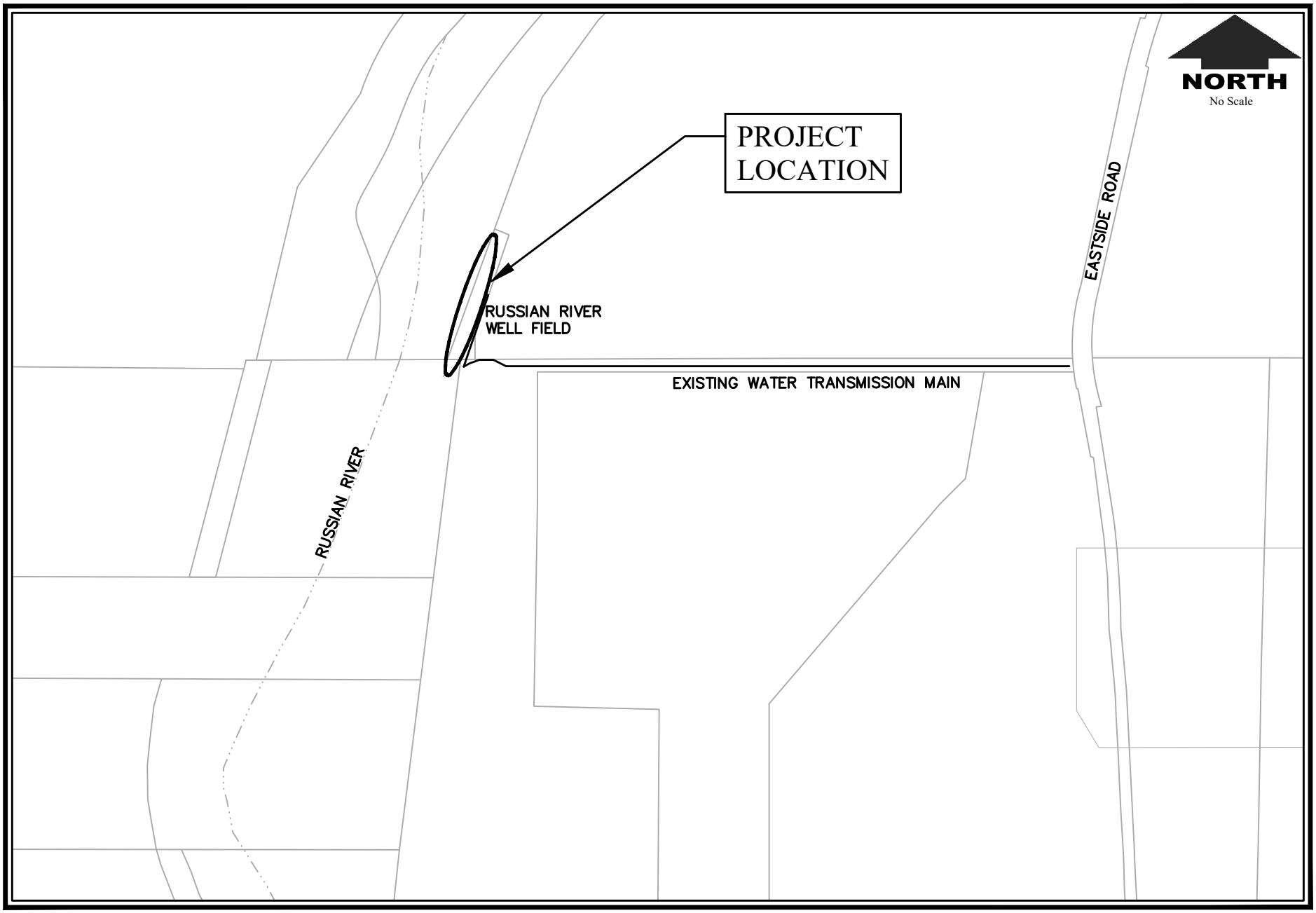
Appropriations beyond the 5 year program period are needed to complete project:

YES (X)
NO ( )

General Plan Consistency:
The Project is consistent with General Plan Public Facilities and Services Policy PFS-1.1 - The Town shall maintain the Capital Improvement Programming (CIP) to ensure the implementation of the General Plan and the adequate and timely provision of public facility and municipal utility improvement, and Policy PFS-2.2 - The Town shall maintain the Urban Water Management Plan to adequately estimate projected water demands and supplies over the planning horizon for average and drought year conditions; and shall implement water supply projects to provide a reliable supply during all water conditions.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design/Environmental	-	-		-	-	-	-	200,000	$ 200,000
	Construction	-	-		-	-	-	-	500,000	$ 500,000
	Construction Engineering	-	-		-	-	-	-	50,000	$ 50,000
	Project Management/Admin.	-	-		-	-	-	-	25,000	$ 25,000
	Total	$ -	$ -		$ -	$ -	$ -	$ -	$ 775,000	$ 775,000
Funding Sources:	Water Capital Fund	-	-		-	-	-	-	775,000	$ 775,000
	Total	$ -	$ -		$ -	$ -	$ -	$ -	$ 775,000	$ 775,000
Estimated O & M										

New Well at Russian River Well Field



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
New Well at Russian River Well Field

Project No: New

GL No:

Project Description:
Construct a new well at the Russian River Well Field site. This project is identified in the Water Master Plan Update and includes design and feasibility evaluation in FY 23-24 with well construction thereafter to meet operational and future growth demands.

Department:
Public Works - Engineering

Priority:

_____	**Mandate**
X	**Necessary**
_____	**Desirable**

Justification:
Currently, the Town's Russian River well field has two wells that are 30 years old. A new replacement well at the Russian River Well Field site would be constructed to replace one of the aging wells, as they get to the end of their life. A replacement well is needed to provide for peak demand periods when four or five wells are required to pump at the same time.

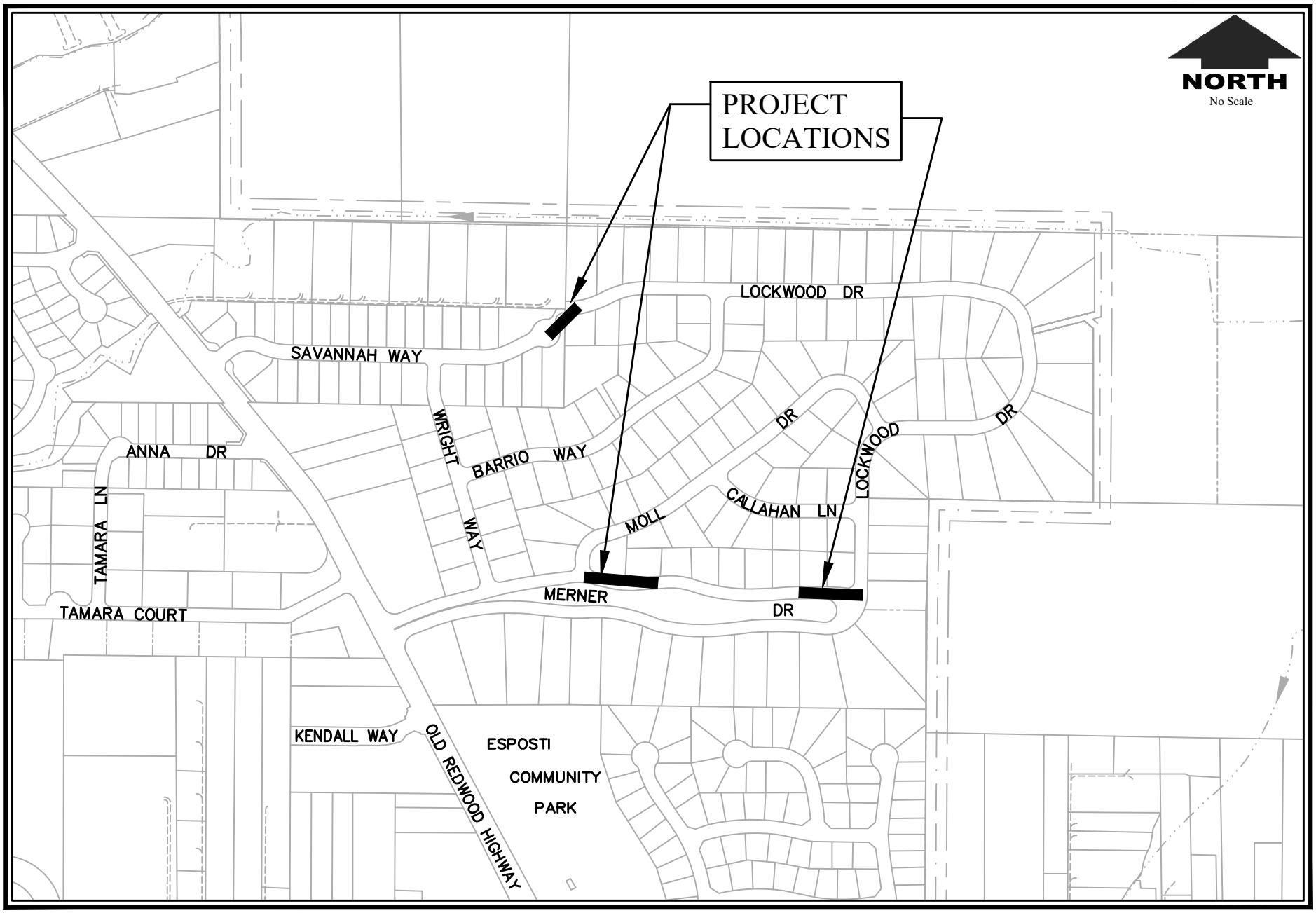
Appropriations beyond the 5 year program period are needed to complete project:

YES (X)
NO ( )

General Plan Consistency:
The Project is consistent with General Plan Public Facilities and Servies Policy PFS-1.7 - The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design/Environmental	-	-		-	-	-	-	100,000	$ 100,000
	Construction	-	-		-	-	-	-	300,000	$ 300,000
	Construction Engineering	-	-		-	-	-	-	50,000	$ 50,000
	Project Management/Admin.	-	-		-	-	-	-	50,000	$ 50,000
										$ -
										$ -
	Total	$ -	$ -		$ -	$ -	$ -	$ -	$ 500,000	$ 500,000
Funding Sources:	Water Capital Fund								500,000	$ 500,000
										$ -
	Total	$ -	$ -		$ -	$ -	$ -	$ -	$ 500,000	$ 500,000
Estimated O & M										

Savannah Way and Merner Drive Pipe Construction



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Savannah Way and Merner Drive Pipe Construction

Project No: New

GL No:

Project Description:
Install three new 8" pipes: between Savanna Wy and Lockwood Dr and on Merner Dr between Moll Dr and Lockwood Dr.

NOTES: This project consists of 3 new pipes: 2 on Merner Dr., and 1 connecting between Savannah Way and Lockwood Dr.

Department:
Public Works Engineering

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
This project is needed to meet pressure requirements under fireflow conditions at four existing pipe dead ends. The new pipelines will address the fireflow deficiencies and create new pipe loops for added system redundancy.

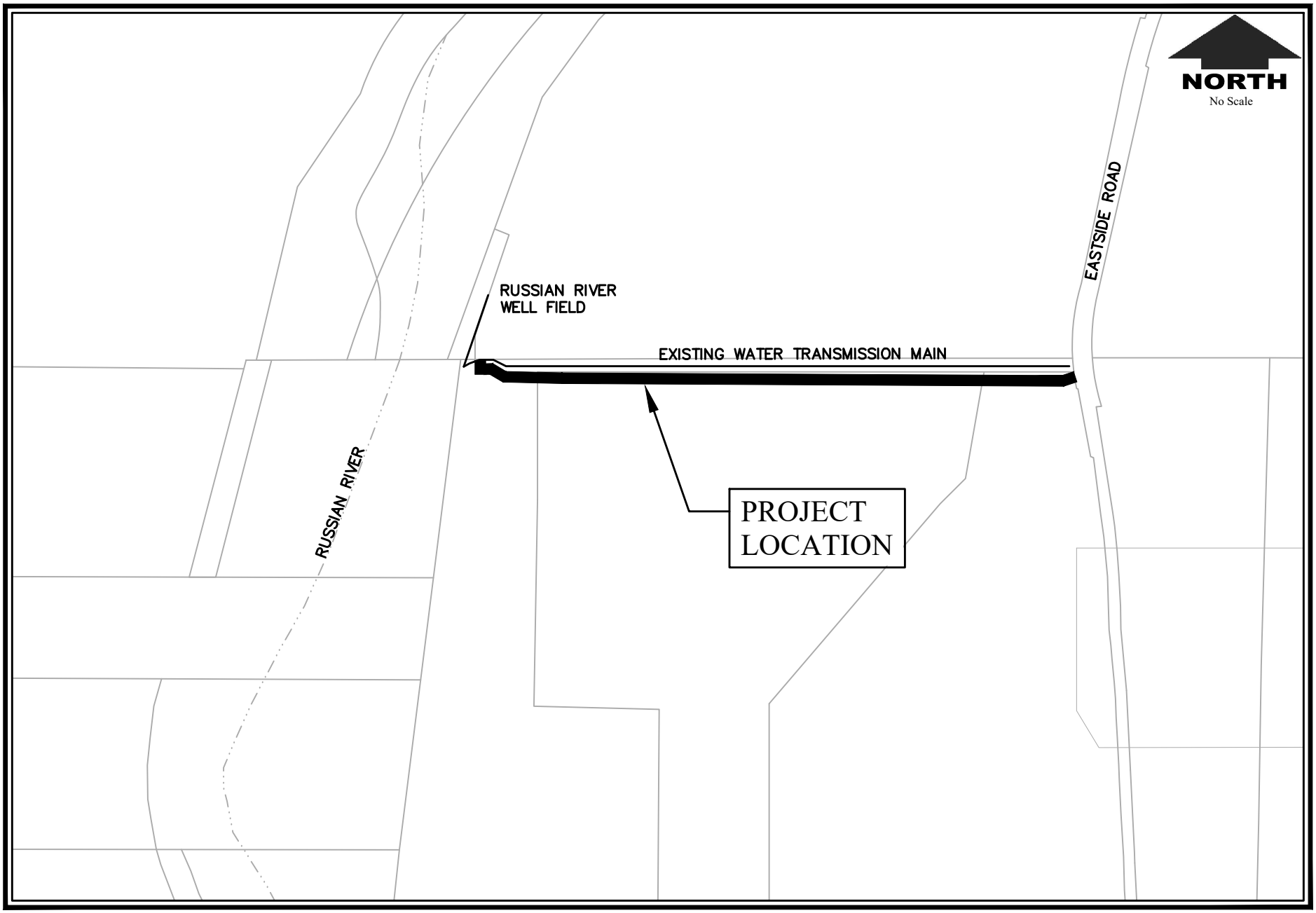
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-1.1 - The Town shall maintain the Capital Improvement Programming (CIP) to ensure the implementation of the General Plan and the adequate and timely provision of public facility and municipal utility improvement and Policy PFS-1.7 - The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design/Environmental/Permits	-	-		-	-	-	-	54,000	$ 54,000
	Construction	-	-		-	-	-	-	235,000	$ 235,000
	Project Management/Admin.	-	-		-	-	-	-	36,000	$ 36,000
	Total	$ -	$ -		$ -	$ -	$ -	$ -	$ 325,000	$ 325,000
Funding Sources:	Water Capital Fund	-	-		-	-	-	-	325,000	$ 325,000
	Total	$ -	$ -		$ -	$ -	$ -	$ -	$ 325,000	$ 325,000
Estimated O & M										

Water Transmission Reliability at Russian River Well Field
West of Eastside Road



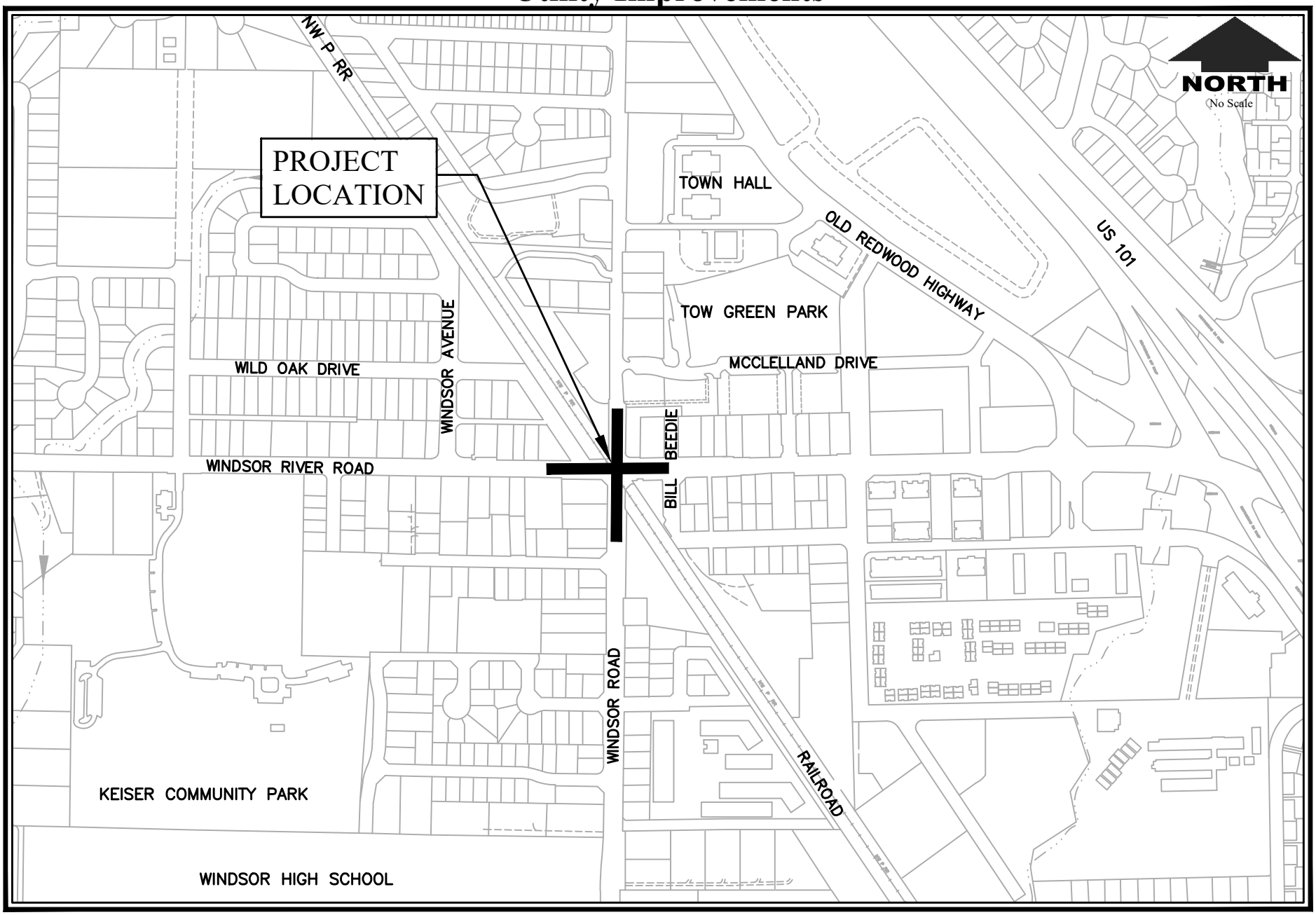
TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name: **Water Transmission Reliability at Russian River Well Field West of Eastside Road**	**Project No:** New **GL No:**
Project Description: Install 2,400 ft of new 18" pipe from the Russian River Well Field (RRWF) to Eastside Road. This is a parallel pipe to the existing 18" supply line coming from the RRWF to the Town's water distribution system.	**Department:** Public Works Engineering
Justification: This pipe serves as redundancy for the existing supply line from the Russian River Well Field in case the existing pipe is damaged or needs to be serviced. This project supports the Hazard Mitigation Plan Mitigation Action 3.2 - Increase redundancy in the Town's water distribution network through multiple back-up connections, particularly across fault zones.	**Priority:** _____ **Mandate** _____ **Necessary** X **Desirable**
General Plan Consistency: The project is consistent with General Plan Public Facilities and Services Policy PFS-1.1 - The Town shall maintain the Capital Improvement Programming (CIP) to ensure the implementation of the General Plan and the adequate and timely provision of public facility and municipal utility improvement and Policy PFS-1.7 - The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints. In addition the project is consistent with Public Heath and Safety Policy PHS-1.2 The Town shall ensure that emergency response facilities and infrastructure are located to avoid hazardous areas and designed to remain functional following a major natural or human-made disaster. When the location of emergency response facilities and infrastructure in such areas cannot be avoided, effective measures should be implemented to minimize potential damage and public inconvenience.	**Appropriations beyond the 5 year program period are needed to complete project:** **YES ( )** **NO (X)**

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design/Environmental/Permits	-	-		-	-	-	-	246,000	$ 246,000
	Construction	-	-		-	-	-	-	1,345,000	$ 1,345,000
	Project Management/Admin.	-	-		-	-	-	-	201,000	$ 201,000
	Total	$ -	$ -		$ -	$ -	$ -	$ -	$ 1,792,000	$ 1,792,000
Funding Sources:	Water Capital Fund	-	-		-	-	-	-	1,792,000	$ 1,792,000
	Total	$ -	$ -		$ -	$ -	$ -	$ -	$ 1,792,000	$ 1,792,000
Estimated O & M										

Windsor River Road/Windsor Road Intersection
Utility Improvements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Windsor River Road/Windsor Road Intersection Utility Improvements

Project No: 2061
GL No: 430-82-25-2061-4510-000
GL No: 460-83-25-2061-4510-000

Project Description:
Windsor River Road/Windsor Road intersection utility improvements. Improvements include water and sewer improvements within the intersection prior to construction of the railroad crossing and roundabout.

Department:
Public Works - Engineering

Justification:
The California Public Utilities Commission (CPUC) has identified improvements that are needed with the return of rail service at this location. The crosswalks need to be located to the outside of the railroad gates among other improvements. The project falls within the Station Area/Downtown Specific Plan and is consistent with the goals and policies for pedestrian/bike connectivity and improved sidewalks/streetscapes. Water and sewer line upgrades are desired in the intersection prior to construction of the railroad crossing to avoid repairs after the railroad track and traffic circle are in place. Due to the health of the Water Reclamation Capital Fund, a loan from Water Capital to Water Reclamation Capital will be made with payments back to Water Capital after FY 21-22 when other sewer bond payments are retired.

Priority:

_____	**Mandate**
_____	**Necessary**
X	**Desirable**

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-3.1: The Town shall provide sufficient wastewater conveyance, storage, and pumping capacity for peak sewer flows and infiltration, and Policy PFS-1.7: The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Prelim/Final Design/Permit	-	-	412,000	-	-	-	-	$ 412,000
	Construction	-	-	2,540,000	-	-	-	-	$ 2,540,000
	Construction Management	-	-	305,000	-	-	-	-	$ 305,000
	Project Management	-	-		-	-	-	-	$ -
	Legal Services/Admin	-	-	8,000	-	-	-	-	$ 8,000
							-	-	$ -
	Total	$ -	$ -	$ 3,265,000	$ -	$ -	-	-	$ 3,265,000
Funding Sources:	Loan to Water Rec Cap	-	-	2,064,000	-	-	-	-	$ 2,064,000
	Water Capital	-	-	1,201,000	-	-	-	-	$ 1,201,000
	Total	$ -	$ -	$ 3,265,000	$ -	$ -	$ -	$ -	$ 3,265,000
Estimated O & M:									

WATER RECLAMATION PROJECTS

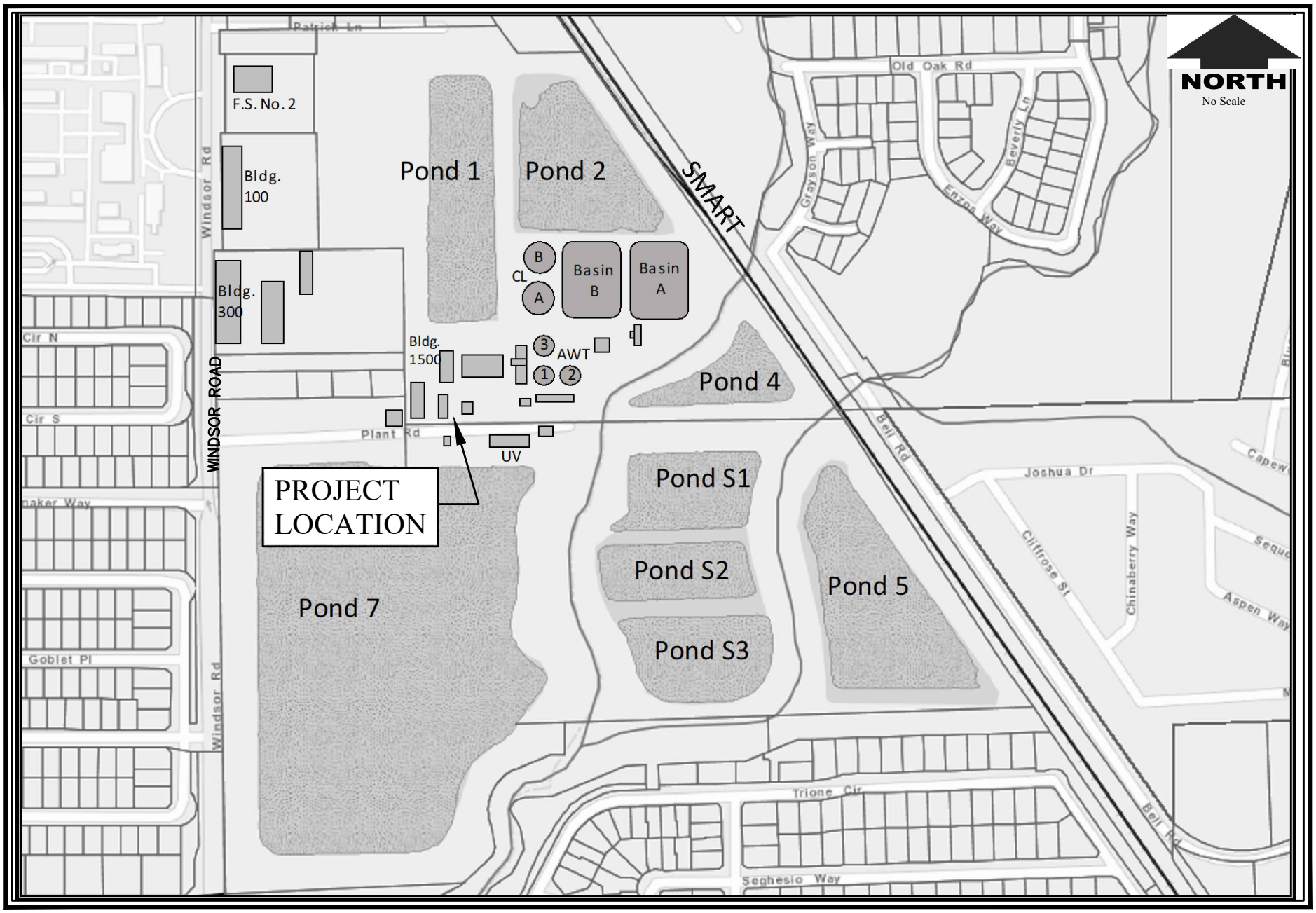


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APPROPRIATIONS PLAN SUMMARY FOR
WATER RECLAMATION PROJECTS

PROJECT	Page No.	Project No.	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2017-2022
Influent Wet Well Screen at Water Reclamation Facility	WR - 3	1801	-	-	3,360,000	-	-	**$ 3,360,000**
Pond 7 Algae Control Improvements	WR - 5	2080	185,000	-	-	-	-	**$ 185,000**
Advanced Wastewater Treatment (AWT) Static Mixer Improvements at Water Reclamation Facility	WR - 7	2081	68,000	-	-	-	-	**$ 68,000**
Blower Facility Upgrades at Water Reclamation Facility	WR - 9	8015	-	75,000	930,000	-	-	**$ 1,005,000**
Upgrade Selector Box in Aeration Basin A at Water Reclamation Facility	WR - 11	1803	94,000	742,000	-	-	-	**$ 836,000**
Rehabilitate Secondary Clarifiers at Water Reclamation Facility	WR - 13	1804	22,000	65,000	368,000	338,000	-	**$ 793,000**
Treatment Plant Equipment Replacements	WR - 15	8013	89,000	20,000	-	-	-	**$ 109,000**
Rehabilitate Advanced Wastewater Treatment (AWT) Clarifiers at Water Reclamation Facility	WR - 17	1802	20,000	422,000	-	-	-	**$ 442,000**
Aeration Basin Automatic Controls at Water Reclamation Facility	WR - 19	2180	-	60,000	284,000	282,000	-	**$ 626,000**
Mitchell Lane Pump Station Upgrade	WR - 21	2181	-	168,000	-	-	-	**$ 168,000**
Paving Repair and Resurfacing at Water Reclamation Facility	WR - 23	1805	-	15,000	449,000	-	-	**$ 464,000**
Headworks Screen Upgrade at Water Reclamation Facility	WR - 25	2082	450,000	-	-	-	-	**$ 450,000**
Conde Business Park Sewer Easement Access Road Resurfacing	WR - 27	2182	-	134,000	-	-	-	**$ 134,000**
Mitchell Lane Transfer Pipeline	WR - 29	1401	-	-	43,000	711,000	-	**$ 754,000**
Security Fencing Repair and Upgrade at Water Reclamation Facility	WR - 31	1110	-	-	273,000	-	-	**$ 273,000**
Upgrade Selector Box in Aeration Basin B at Water Reclamation Facility	WR - 33	New	-	-	53,000	742,000	-	**$ 795,000**
Emergency Generator Upgrade and Replacement at Water Reclamation Facility	WR - 35	New	-	-	170,000	6,000	2,310,000	**$ 2,486,000**
Main Switchboard Replacement at Water Reclamation Facility	WR - 37	New	-	-	172,000	140,000	-	**$ 312,000**
Undergrounding of Overhead Utilities in Front of Pond 7	WR - 39	New	-	-	691,357	-	-	**$ 691,357**
Ultraviolet (UV) System Replacement at Water Reclamation Facility	WR - 41	New	-	-	-	-	266,000	**$ 266,000**
Berm Repair Recycled Water Storage Ponds	WR - 43	2083	135,000	-	790,900	140,000	140,000	**$ 1,205,900**
Grit Classifier Replacement at Water Reclamation Facility	WR - 45	2084	200,000	-	-	-	-	**$ 200,000**
Replacement Program for Flocculation Tank Mixers at Water Reclamation Facility	WR - 47	2085	53,000	53,000	53,000	53,000	53,000	**$ 265,000**
TOTAL APPROPRIATIONS			**$ 1,316,000**	**$ 1,754,000**	**$ 7,637,257**	**$ 2,412,000**	**$ 2,769,000**	**$ 15,888,257**

Influent Wet Well Screen at WRF



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Influent Wet Well Screen at Water Reclamation Facility

Project No: 1801

GL No: 430-82-25-1801-4510-000

Project Description:
This project consists of the purchase and installation of a mechanical screen at the Wastewater Reclamation Plant influent wet well. The equipment will consist of a mechanical self-cleaning screen and a screenings washer and compactor and will remove coarse debris from the wastestream prior to pumping at the influent pump station. This project is planned to be concurrent with replacement of the headworks grit classifier. The project also includes construction of a subsidiary influent wet well to house the screen and new sewer structures to direct flow toward the screen. This budget is to complete the project initiated in FY18-19.

Department:
Public Works - Water Reclamation

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
Currently, no screening occurs upstream of the influent pump station. The influent pumps, which draw water from the influent wet well, are subject to frequent stoppage by fibrous materials. These pumps must then be cleaned at a high frequency - a maintenance task that can be minimized with the addition of screening facilities. The removal of the larger solid material from the wastestream at the influent wet well will reduce wear on the influent pumps, and reduce the trash loading and related wear on downstream treatment processes and equipment. The current grit classifier, which removes sand and gravel from the wastestream, is corroded and has functioned beyond its service life. Due to the high degree of corrosion, an engineering assessment recommended replacement of the grit classifier, rather than repair.

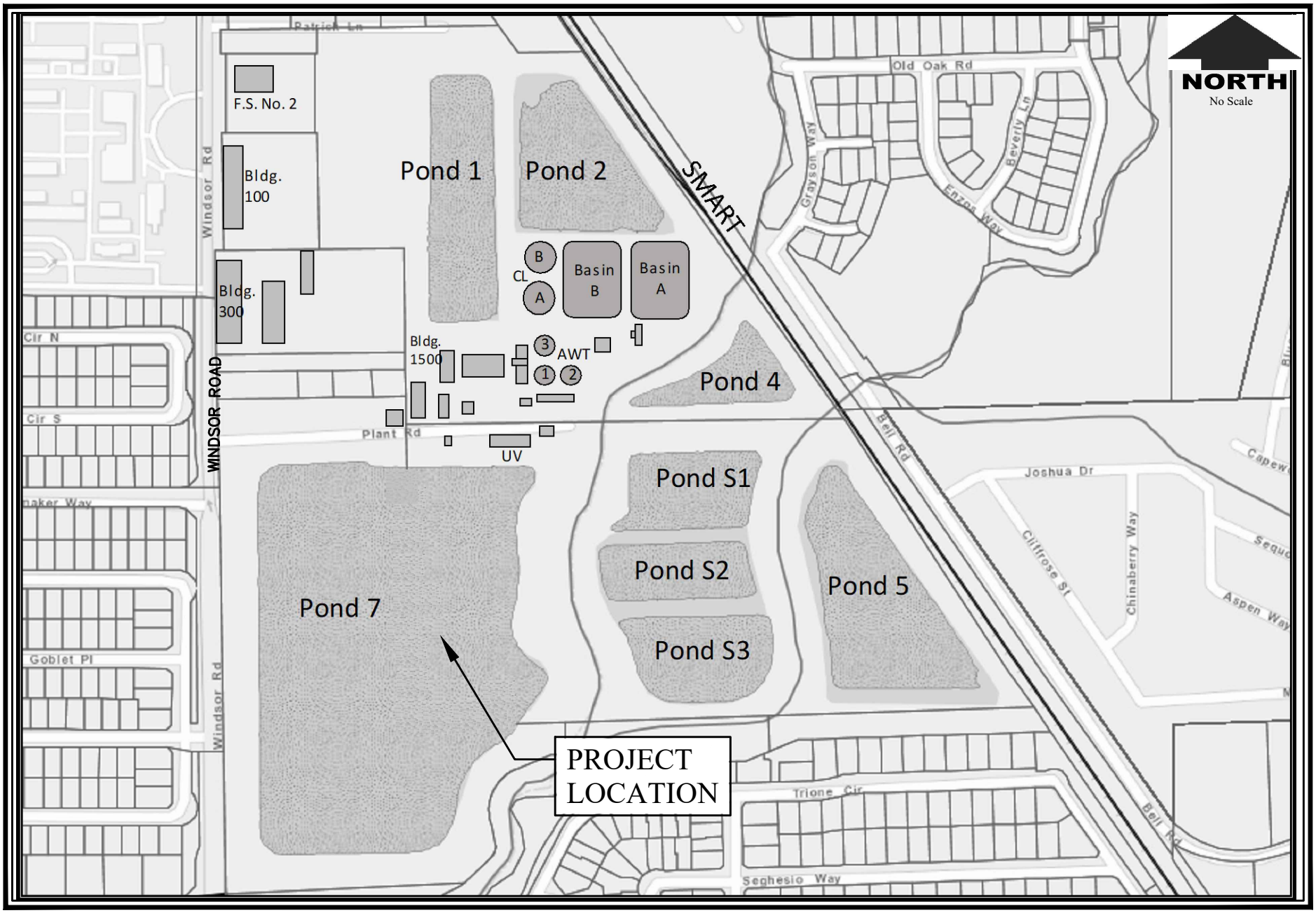
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-3.1: The Town shall provide sufficient wastewater conveyance, storage, and pumping capacity for peak sewer flows and infiltration, and Policy PFS-1.7: The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	15,000	75,000	-	-	-	-	-	$ -
	Construction	2,170,000	-	-	-	2,983,000	-	-	$ 2,983,000
	Construction Engineering	172,000	-	-	-	350,000	-	-	$ 350,000
	Project Management	-	-	-	-	10,000	-	-	$ 10,000
	Legal Services/Admin	12,000	-	-	-	17,000	-	-	$ 17,000
			-	-	-	-	-	-	$ -
	Total	$ 2,369,000	$ 75,000	$ -	$ -	$ 3,360,000	$ -	$ -	$ 3,360,000
Funding Sources:	WR Capital/Other sources	2,369,000	75,000	-	-	3,360,000	-	-	3,360,000
			-	-	-	-	-	-	$ -
			-	-	-	-	-	-	$ -
			-	-	-	-	-	-	$ -
			-	-	-	-	-	-	$ -
	Total	$ 2,369,000	$ 75,000	$ -	$ -	$ 3,360,000	$ -	$ -	$ 3,360,000
Estimated O & M									

Pond 7 Algae Control Improvements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Pond 7 Algae Control Improvements

Project No: 2080

GL No:

Project Description:
This project includes installation of water circulation equipment in Pond 7 to discourage the growth of algae.

Department:
Public Works - Water Reclamation

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
Harmful algael blooms occurred in Pond 7 creating odors and affecting water quality and plant operations. This project was recommended by the Town's consultant to increase water disturbance and circulation to inhibate the growth of algae.

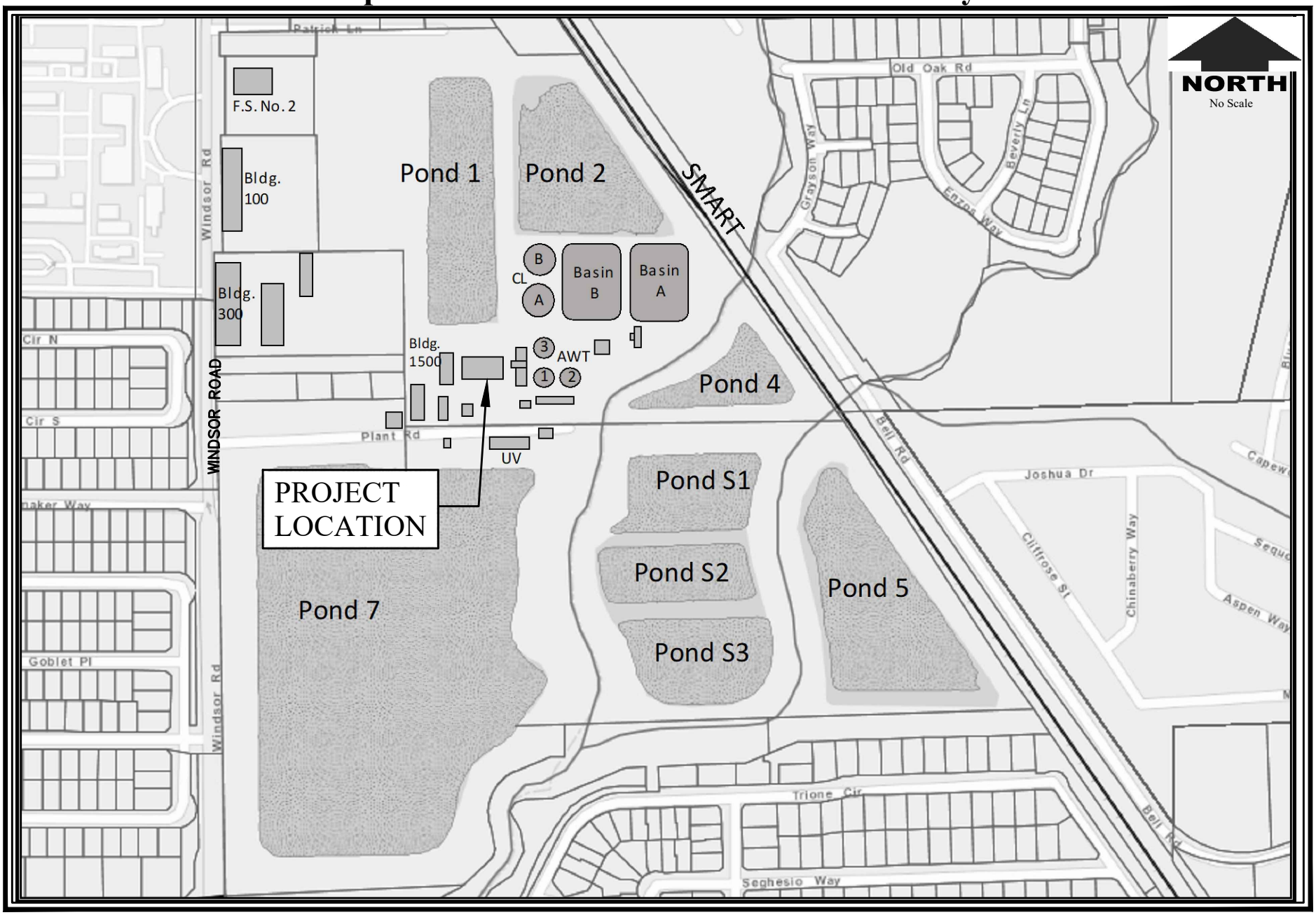
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The project is consistent with General Plan Policy Public Facilities and Services: PFS-3.5 The Town shall ensure that treated wastewater complies with the Town's NPDES waste discharge permit regarding reclamation, recycled water landscape irrigation and land application.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-		20,000	-	-	-	-	$ 20,000
	Construction	-	-		165,000	-	-	-	-	$ 165,000
		-	-		-	-	-	-	-	$ -
		-	-		-	-	-	-	-	$ -
		-	-		-	-	-	-	-	$ -
			-		-	-	-	-	-	$ -
	Total	$ -	$ -		$ 185,000	$ -	$ -	$ -	$ -	$ 185,000
Funding Sources:	WR Capital	-	-		185,000	-	-	-	-	$ 185,000
					-	-	-	-	-	$ -
					-	-	-	-	-	$ -
					-	-	-	-	-	$ -
					-	-	-	-	-	$ -
	Total	$ -	$ -		$ 185,000	$ -	$ -	$ -	$ -	$ 185,000
Estimated O & M										

Advanced Wastewater Treatment (AWT) Static Mixer Improvements at Water Reclamation Facility



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Advanced Wastewater Treatment (AWT) Static Mixer Improvements at Water Reclamation Facility

Project No: 2081

GL No: 430-82-25-2081-4510-000

Project Description:
Installation of a static mixer at the 16 inch line downstream of the chemical injection lines. The project is intended for installation prior to the 2020 discharge season when the most stringent phospherous removal requirement is mandated by the current State issued discharge permit.

Department:
Public Works - Water Reclamation

Priority:

	Mandate
	Necessary
X	**Desirable**

Justification:
The purpose for injecting chemicals (alum and polymer) is to induce flocculation and coagulation in the flocculation tanks, and precipitation in the AWT clarifiers. Chemical injection of Alumer and polymer occur via a direct port into the 14-inch AWT pump station effluent line. An engineering assessment during the Wastewater Treatment Plant Modernization Study indicated that more complete mixing of the chemicals was preferred upstream of the flocculation tanks. This modification would more thoroughly mix the chemicals and provide greater efficiency of chemical use. The improvement will also provide for more cost effective phosphorus removal.

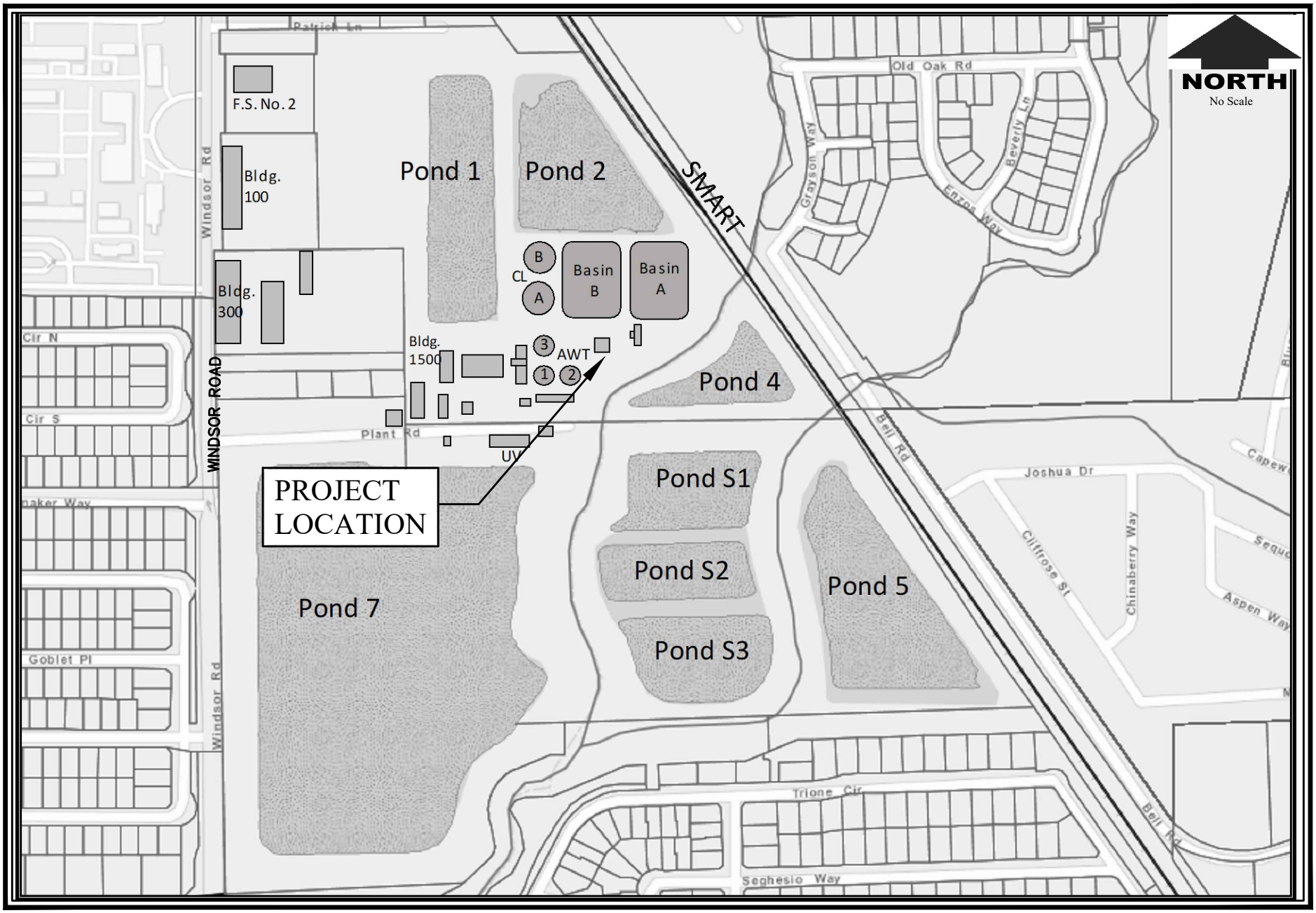
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-3.1: The Town shall provide sufficient wastewater conveyance, storage, and pumping capacity for peak sewer flows and infiltration, and Policy PFS-3.5: The Town shall ensure that treated wastewater complies with the Town's NPDES waste discharge permit and to provide sufficient treatment capacity for new development.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-	5,000	-	-	-	-	$ 5,000
	Construction	-	-	52,000	-	-	-	-	$ 52,000
	Construction Engineering	-	-	9,000	-	-	-	-	$ 9,000
	Project Management	-	-	-	-	-	-	-	$ -
	Legal Services/Admin	-	-	2,000	-	-	-	-	$ 2,000
	Total	$ -	$ -	$ 68,000	$ -	$ -	$ -	$ -	$ 68,000
Funding Sources:	WR Capital	-	-	68,000	-	-	-	-	$ 68,000
									$ -
	Total	$ -	$ -	68,000	$ -	$ -	$ -	$ -	$ 68,000
Estimated O & M									

Blower Facility Upgrades at Water Reclamation Facility



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Blower Facility Upgrades at Water Reclamation Facility

Project No: 8015

GL No: 430-82-25-8015-4510-000

Project Description:
This project consists of upgrades to the Blower Facility including a new motor control center (MCC) and easier access to remove and replace blower and motor units. The Project will include a design phase to most effectively address operational needs and will include construction of a new MCC in an adjacent auxillary building. This project is a modification and refinement of existing CIP Project 8015 which was only intended to address motor overheating and access issues; however, new information lead to the need for a more comprehensive solution.

Department:
Public Works - Water Reclamation

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
The aeration basin blowers are essential to deliver oxygen to the main biological process of the Wastewater Reclamation Plant. During the summer months, blower motors occasionally fail and need to be replaced due to a combination of temperature and the outdated and aging MCC. The current MCC room is too small to accomodate necessary improvements that would allow upgrades to the blower controls and for eventual upgrades to more modern turbo blowers. When both aeration basins are brought on-line, in the future, proper blower operation and controls will be even more critical. In addition, there is currently no convenient way to remove the blowers from the building for service or replacement. This project is planned to address these problems by creating a stand-alone air conditioned blower MMC room and adding bay doors or other removeable doors to the current blower building to allow easier access. This project is a redirection and expansion of former Project 8015 which was only meant to address the motor overheating and access isues.

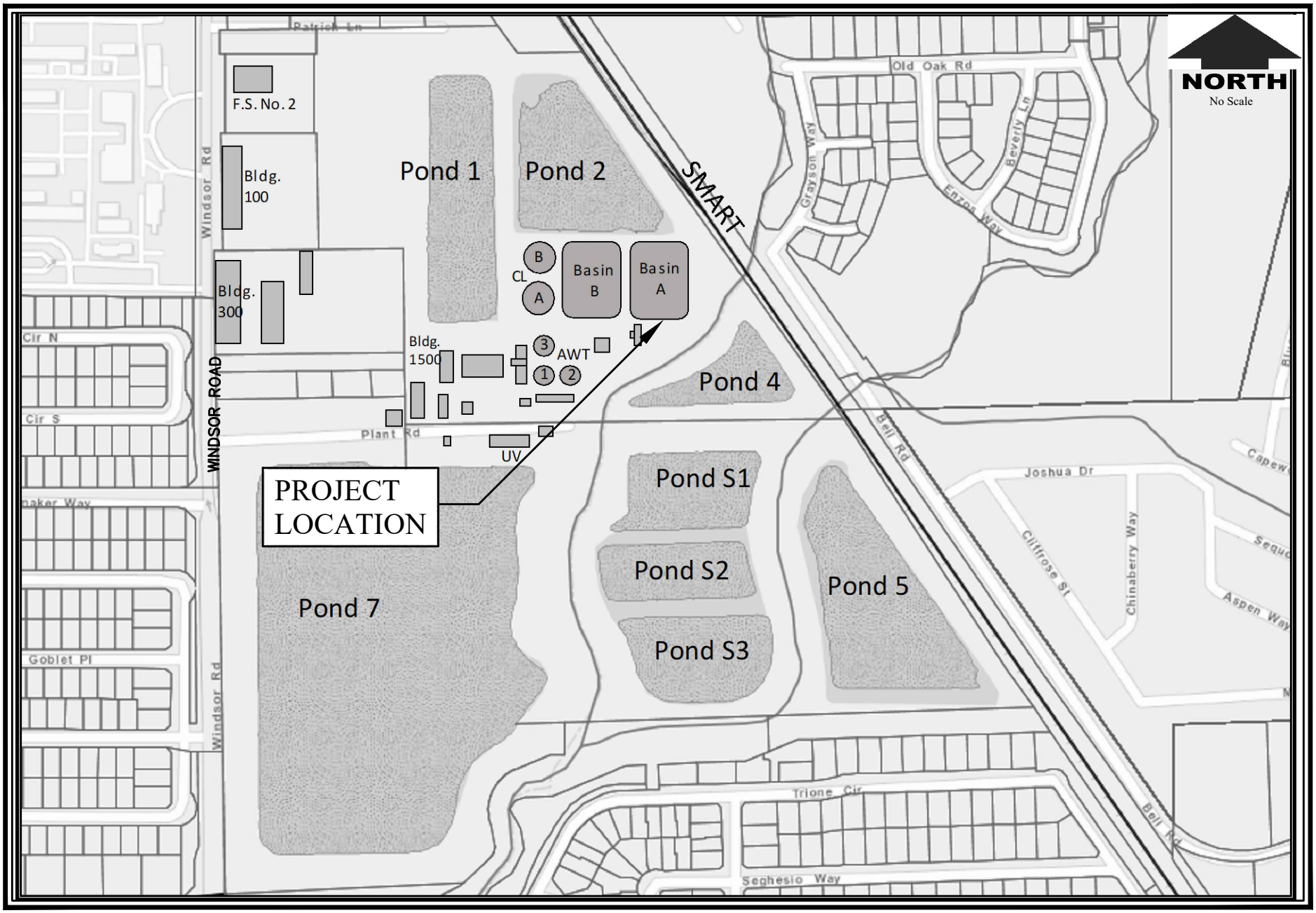
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-3.1: The Town shall provide sufficient wastewater conveyance, storage, and pumping capacity for peak sewer flows and infiltration, and Policy PFS-1.7: The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	45,000	50,000		-	75,000	-	-	-	$ 75,000
	Construction	536,000	-		-	-	851,000	-	-	$ 851,000
	Construction Engineering	37,000	-		-	-	77,000	-	-	$ 77,000
	Project Management	12,500	-		-	-	-	-	-	$ -
	Legal Services/Admin	2,500	-		-	-	2,000	-	-	$ 2,000
	Total	$ 633,000	$ 50,000		$ -	$ 75,000	$ 930,000	$ -	$ -	$ 1,005,000
Funding Sources:	WR Capital	633,000	50,000		-	75,000	930,000	-	-	$ 1,005,000
	Total	$ 633,000	$ 50,000		$ -	$ 75,000	$ 930,000	$ -	$ -	$ 1,005,000
Estimated O & M										

Upgrade Selector Box in Aeration Basin A at Water Reclamation Facility



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Upgrade Selector Box in Aeration Basin A at Water Reclamation Facility

Project No: 1803

GL No: 430-82-25-1803-4510-000

Project Description:
This project will refurbish the selector box in Aeration Basin A. During the time of construction, new aeration diffusers and piping will be installed in the basin.

Department:
Public Works - Water Reclamation

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
The selector box is designed to promote growth of beneficial organisms in the aeration basin. The baffle curtain surrounding Basin A selector box was added to increase residence time in the selector. The curtain has collapsed and no longer functions as planned. This project consists of retrofit of Basin A selector box and upsizing the box to facilitate better phosphorus removal needed to meet stringent NPDES Permit requirements. The basin was originally installed in 1996 and upgrades are needed to improve air diffusers and piping to enhance phosphorus removal.

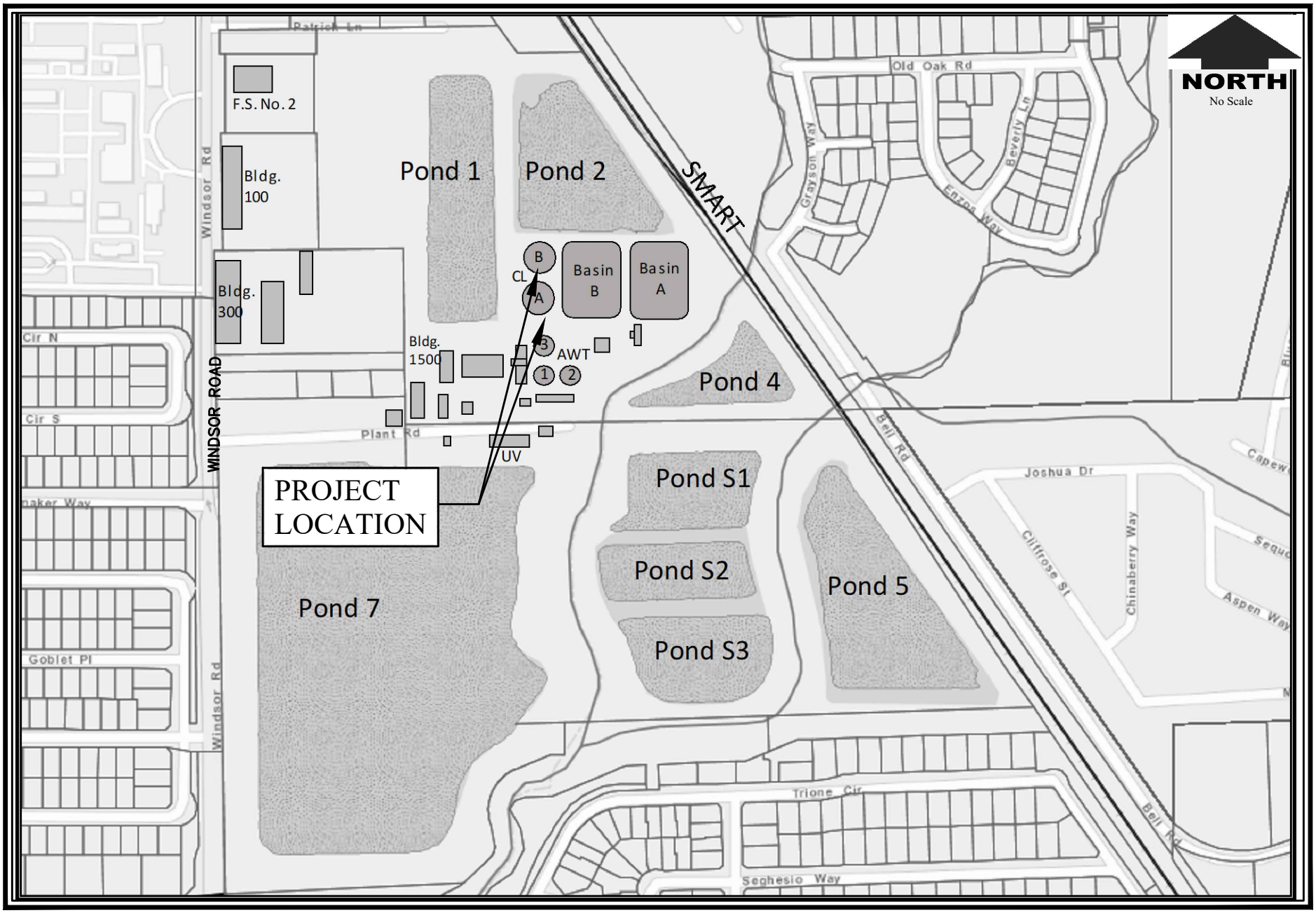
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-1.7: The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	22,000	-		88,000	-	-	-	-	$ 88,000
	Construction	-	-		-	682,000	-	-	-	$ 682,000
	Construction Engineering	-	-		-	60,000	-	-	-	$ 60,000
	Project Management	-	-		6,000	-	-	-	-	$ 6,000
	Legal Services/Admin	-	-		-	-	-	-	-	$ -
	Total	$ 22,000	$ -		$ 94,000	$ 742,000	$ -	$ -	$ -	$ 836,000
Funding Sources:	Water Rec Repl & Rehab	22,000	-		94,000	742,000	-	-	-	836,000
	Total	$ 22,000	$ -		$ 94,000	$ 742,000	$ -	$ -	$ -	$ 836,000
Estimated O & M:										

Rehabilitate Secondary Clarifiers at Water Reclamation Facility



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Rehabilitate Secondary Clarifiers at Water Reclamation Facility

Project No: 1804

GL No: 430-82-25-1804-4510-000

Project Description:
The project involves structural repairs to Clarifiers A and B. A needed temporary structural repair to Clarifier A was completed in 2015. The same repair is planned for Clarifier B during the summer of 2019.

Department:
Public Works - Water Reclamation

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
Secondary Clarifiers A and B are generally in good condition with the exception of the center wells which are corroding rapidly at the water line. The Clarifier A center well had corroded all the way through a major percentage of the circuference. This allows short-circuiting of sludge, but more pressingly, jeapordized the structure, as the skimmer arm is supported by the center well. A temporary structural repair was completed on Clarifier A in 2015. Clarifier B is showing the same corrosion pattern and structural repair is planned for 2019. Refurbishment of the complete center wells to prevent sludge short circuiting is planned for 2021 and 2022. Other minor repairs such as replacing scraper blades and recoating spot locations are planned at that time.

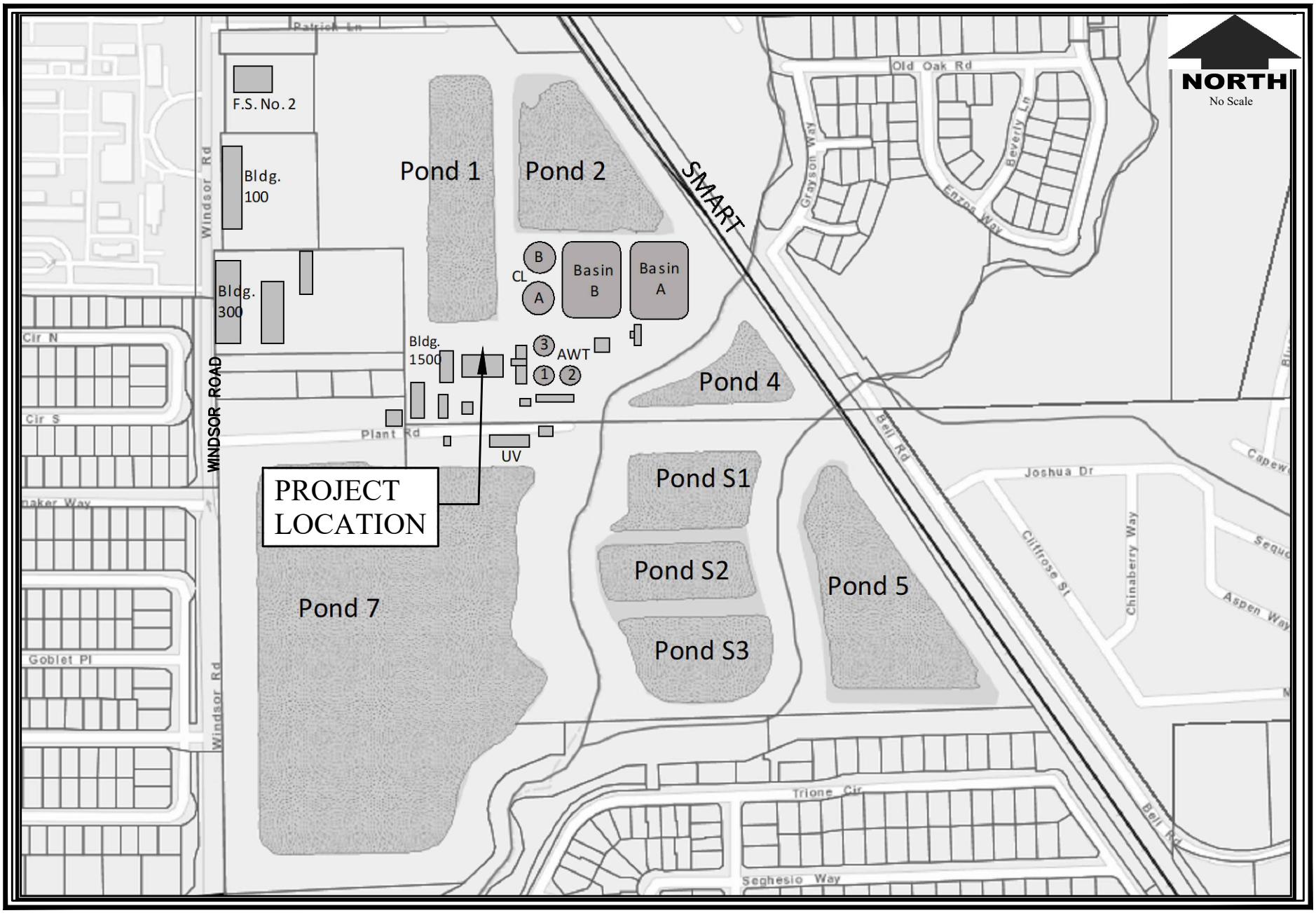
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-3.1: The Town shall provide sufficient wastewater conveyance, storage, and pumping capacity for peak sewer flows and infiltration, and Policy PFS-1.7: The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	55,000	-	4,000	65,000	30,000	-	-	$ 99,000
	Construction	15,000	-	15,000	-	266,000	266,000	-	$ 547,000
	Construction Engineering	5,000	-	3,000	-	60,000	60,000	-	$ 123,000
	Project Management	20,000	-	-	-	10,000	10,000	-	$ 20,000
	Legal Services/Admin	5,000	-	-	-	2,000	2,000	-	$ 4,000
	Total	$ 100,000	$ -	$ 22,000	$ 65,000	$ 368,000	$ 338,000	$ -	$ 793,000
Funding Sources:	WR Capital	100,000	-	22,000	65,000	368,000	338,000	-	$ 793,000
									$ -
	Total	$ 100,000	$ -	$ 22,000	$ 65,000	$ 368,000	$ 338,000	$ -	$ 793,000
Estimated O & M									

Treatment Plant Equipment Replacements



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Treatment Plant Equipment Replacements

Project No: 8013

GL No: 430-82-25-8013-4510-000

Project Description:
This project consists of the replacement of two 30 HP horizontal centrifugal self priming pumps at the Advanced Wastewater Treatment (AWT) pump station with two 30 HP vertical turbine pumps. Design will include piping and electrical modifications. These are a continuance of former Project 8013, Treatment Plant Equipment Replacement.

Department:
Public Works - Water Reclamation

Priority:

_____	**Mandate**
_____	**Necessary**
X	**Desirable**

Justification:
The original 30 HP horizontal centrifugal pumps were installed prior to the existence of the aeration basins and secondary clarifiers. They were designed to pump flow directly from the former aerated ponds which contained debris, rags, and materials that tend to clog vertical turbine pump screens. After construction of the aeration/clarifier facilities, the AWT pump station now pumps much cleaner water and vertical turbine pumps provide better priming, less maintenance, and improved energy efficiency, up to 30%. The two centrifugal pumps, originally installed in 1995, are near the end of their useful lives, a required replacement is anticipated in FY19-20. This is a continuance of Project 8013 in which the AWT filter inlet valves were replaced.

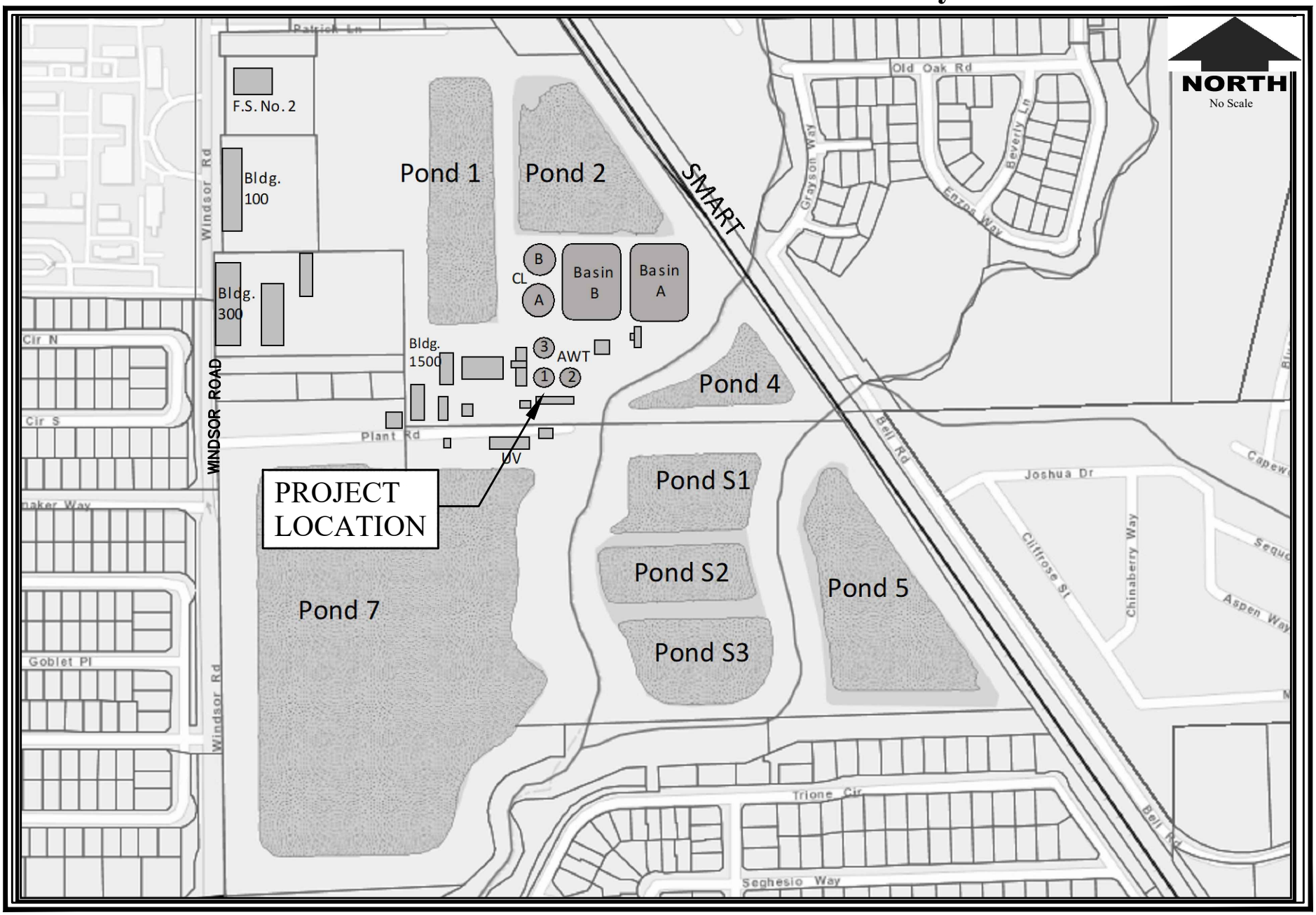
Appropriations beyond the 5 year program period are needed to complete project:

YES	**( )**
NO	**(X)**

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-3.1: The Town shall provide sufficient wastewater conveyance, storage, and pumping capacity for peak sewer flows and infiltration, and Policy PFS-1.7: The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	21,000	-	-	-	-	-	-	-
	Construction	28,000	25,000	68,000	20,000	-	-	-	88,000
	Construction Engineering	5,000	-	9,000	-	-	-	-	9,000
	Project Management	5,000	-	10,000	-	-	-	-	10,000
	Legal Services/Admin			2,000	-	-	-	-	2,000
	Total	$ 59,000	$ 25,000	$ 89,000	$ 20,000	$ -	$ -	$ -	$ 109,000
Funding Sources:	WR Capital	21,000	21,000	89,000	20,000	-	-	-	109,000
									-
	Total	$ 21,000	$ 21,000	$ 89,000	$ 20,000	$ -	$ -	$ -	$ 109,000
Estimated O & M:									

Rehabilitate Advanced Wastewater Treatment (AWT) Clarifiers at Water Reclamation Facility



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Rehabilitate Advanced Wastewater Treatment (AWT) Clarifiers at Water Reclamation Facility

Project No: 1802

GL No: 430-82-25-1802-4510-000

Project Description:
This project consists of making necessary mechanical repairs and restoring the corrosion-resistant coating in AWT Clarifier 1. The surfaces in Clarifier 1 will be rehabilitated during the summer of 2020.

Department:
Public Works - Water Reclamation

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
The AWT Clarifiers are important in their role to clarify water prior to disinfection and to reduce nutrient loads in the wastewater in accordance with the State issued discharge permit. AWT Clarifier No. 1 was placed into service in 1991 and has operated with only minor mechanical repairs for the previous 23 years. The original coating has failed over large areas of the submerged steel components. The sludge rake arms are directly exposed to the partially treated wastewater and are corroding with little protection.

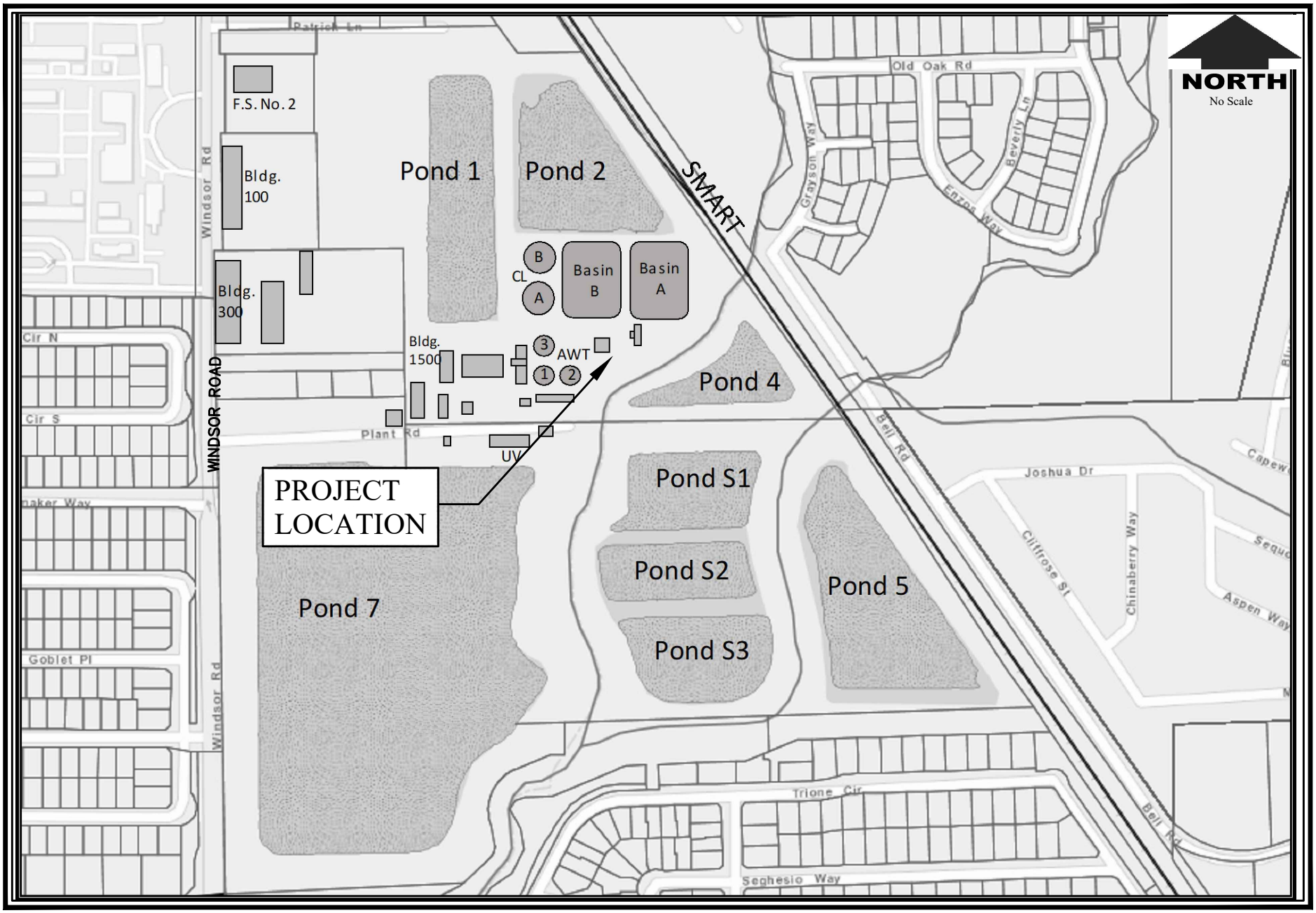
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-3.1: The Town shall provide sufficient wastewater conveyance, storage, and pumping capacity for peak sewer flows and infiltration, and Policy PFS-1.7: The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	98,000	50,000	20,000		-	-	-	$ 20,000
	Construction	350,000	370,000	-	331,000	-	-	-	$ 331,000
	Construction Engineering	49,000	50,000	-	49,000	-	-	-	$ 49,000
	Project Management	40,000	-	-	40,000	-	-	-	$ 40,000
	Legal Services/Admin	2,000	-	-	2,000	-	-	-	$ 2,000
	Total	$ 539,000	$ 470,000	$ 20,000	$ 422,000	$ -	$ -	$ -	$ 442,000
Funding Sources:	WR Capital	539,000	470,000	20,000	422,000	-	-	-	$ 442,000
		$ 539,000	$ 470,000	$ 20,000	$ 422,000	$ -	$ -	$ -	$ 442,000
Estimated O & M									

Aeration Basin Automatic Controls at Water Reclamation Facility



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Aeration Basin Automatic Controls at Water Reclamation Facility

Project No: 2180

GL No: 430-82-25-2180-4510-000

Project Description:
Upgrades to the aeration basin controls to allow automatic control of air delivery to each basin. This project will be constructed after both Aeration basins (A and B) are upgraded and brought on-line.

Department:
Public Works - Water Reclamation

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
The aeration basin blowers are essential to deliver oxygen to the main biological process of the Wastewater Reclamation Plant. Air flow to the aeration basins is currently adjusted manually. Diurnal flow patterns during off-shift hours are currently handled by an over aeration safety factor which is inefficient. Balancing the air flow to each basin using this manual process will become more difficult and less efficient when two basins are in operation.

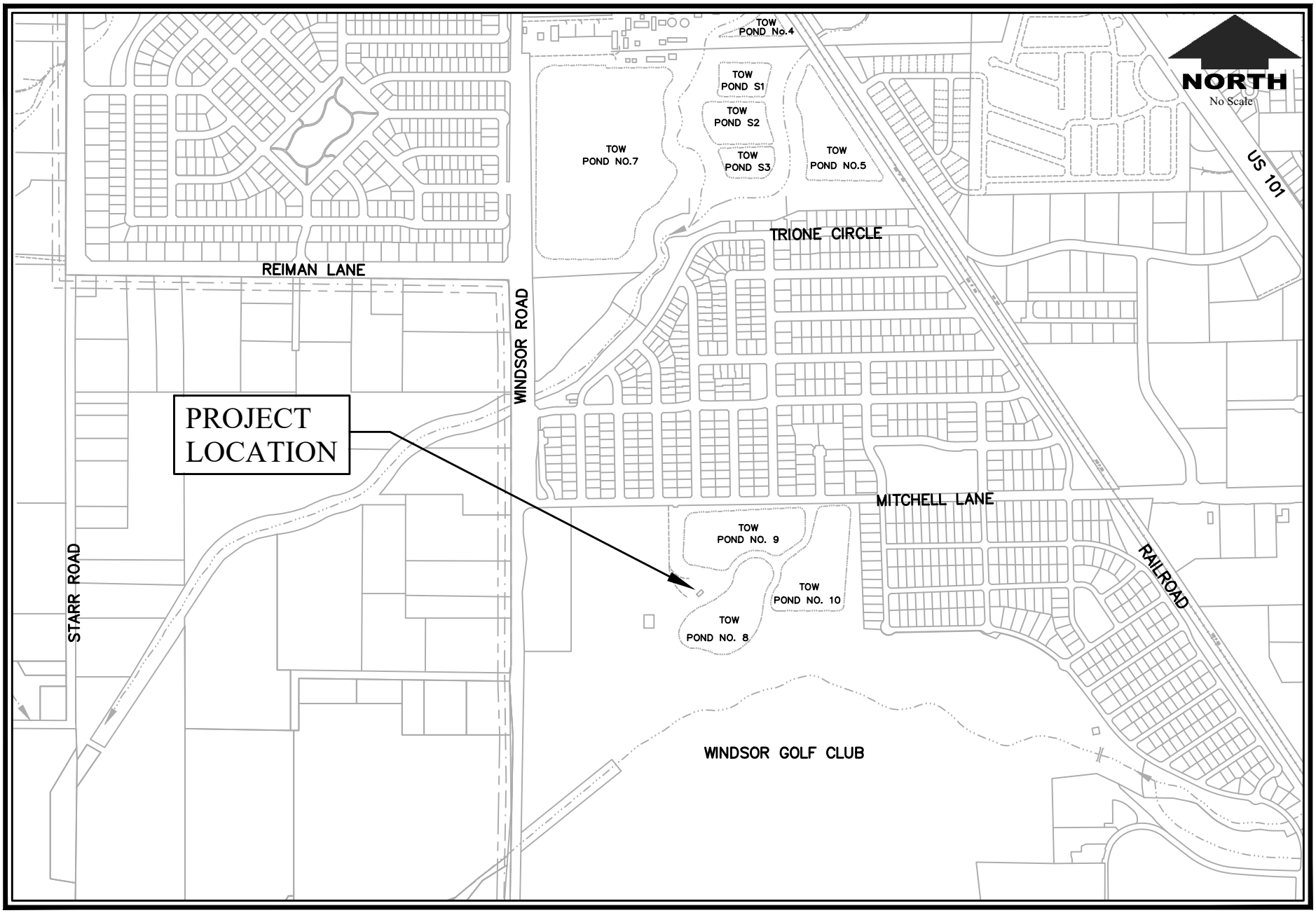
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-3.1: The Town shall provide sufficient wastewater conveyance, storage, and pumping capacity for peak sewer flows and infiltration, and Policy PFS-1.7: The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-	-	60,000	-	-	-	$ 60,000
	Construction	-	-	-	-	244,000	244,000	-	$ 488,000
	Construction Engineering	-	-	-	-	34,000	34,000	-	$ 68,000
	Project Management	-	-	-	-	6,000	4,000	-	$ 10,000
	Legal Services/Admin	-	-	-	-	-	-	-	$ -
	Total	$ -	$ -	$ -	$ 60,000	$ 284,000	$ 282,000	$ -	$ 626,000
Funding Sources:	WR Capital	-	-	-	60,000	284,000	282,000	-	$ 626,000
									$ -
	Total	$ -	$ -	$ -	$ 60,000	$ 284,000	$ 282,000	$ -	$ 626,000
Estimated O & M									

Mitchell Lane Pump Station Upgrade



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Mitchell Lane Pump Station Upgrade

Project No: 2181

GL No: 430-82-25-2181-4510-000

Project Description:
Evaluate aging components of the Mitchell Lane Pump Station. Add redundant Amiad filter. Provide emergency power.

Department:
Public Works - Water Reclamation

Priority:

_____	**Mandate**
X	**Necessary**
_____	**Desirable**

Justification:
The Mitchell Lane Pump Station, which provides reclaimed water to the golf course and serves to bring water back from Ponds 8, 9, and 10 to Pond 7, has become unreliable in recent years due to components reaching their useful life. Upgrading this pump station would ensure reliable operation and lower maintenance costs.

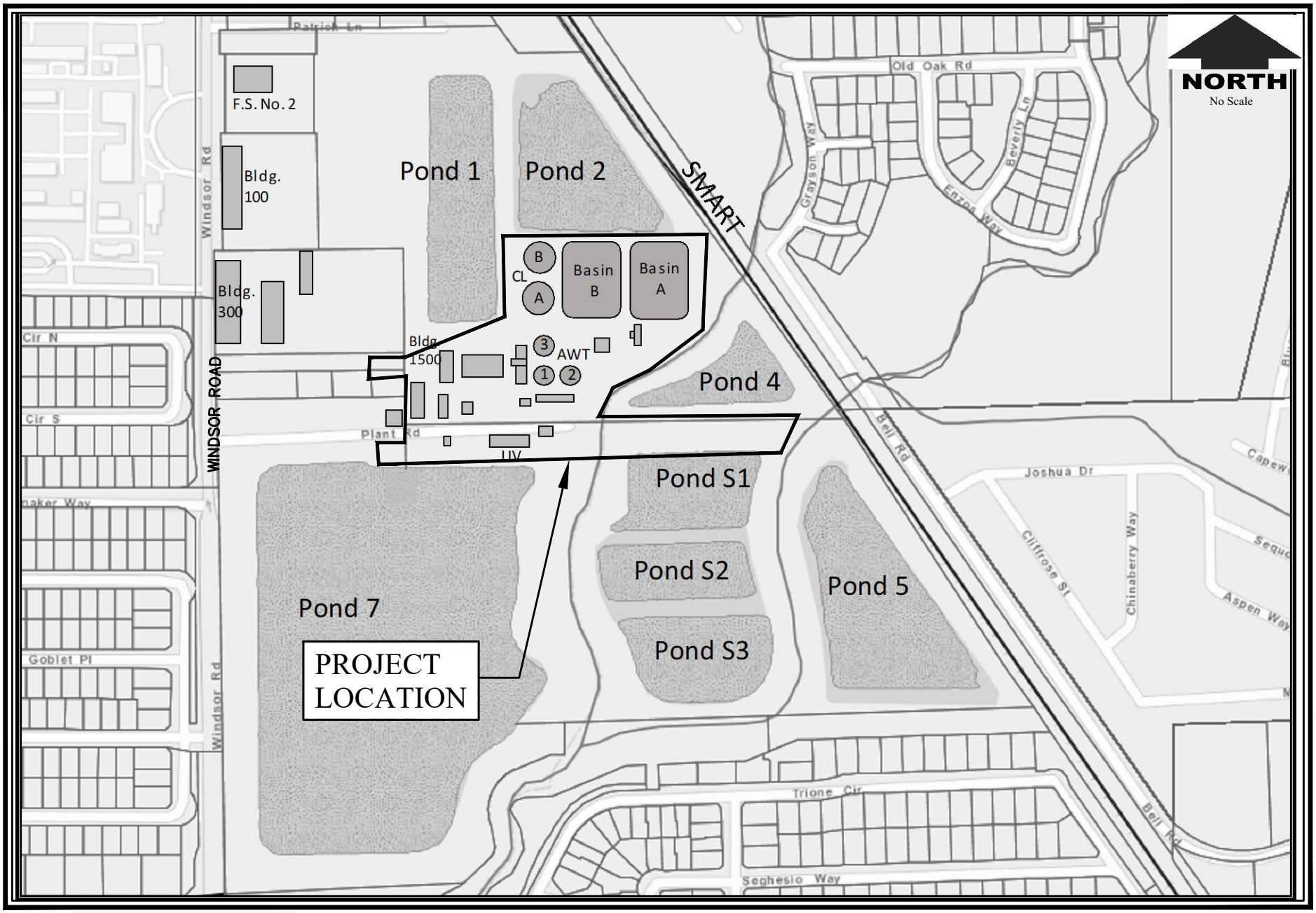
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-3.1: The Town shall provide sufficient wastewater conveyance, storage, and pumping capacity for peak sewer flows and infiltration, and Policy PFS-1.7: The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-		-	100,000	-	-	-	100,000
	Construction	-	-		-	68,000	-	-	-	68,000
	Construction Engineering	-	-		-	-	-	-	-	-
	Project Management	-	-		-	-	-	-	-	-
	Legal Services/Admin	-	-		-	-	-	-	-	-
	Total	$ -	$ -		$ -	$ 168,000	$ -	$ -	$ -	$ 168,000
Funding Sources:	WR Capital	-	-		-	168,000	-	-	-	168,000
										-
	Total	$ -	$ -		$ -	$ 168,000	$ -	$ -	$ -	$ 168,000
Estimated O & M:										

Paving Repair and Resurfacing at Water Reclamation Facility



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Paving Repair and Resurfacing at Water Reclamation Facility

Project No: 1805

GL No: 430-82-25-1805-4510-000

Project Description:
Pavement maintenance of the Wastewater Reclamation Plant paved areas including digouts, slurry seal, and restriping. Also includes placement of a raised gravel road from the service bridge over Windsor Creek to the Pond 5 footbridge and the installation of runnoff retention curbs around the sludge ponds.

Department:
Public Works - Water Reclamation

Priority:

_____	**Mandate**
_____	**Necessary**
X	**Desirable**

Justification:
The asphalt surface is damaged and cracked in various areas of the Wastewater Reclamation Plant. Pavement maintenance will repair these sections and extend the useful life of the existing pavement.

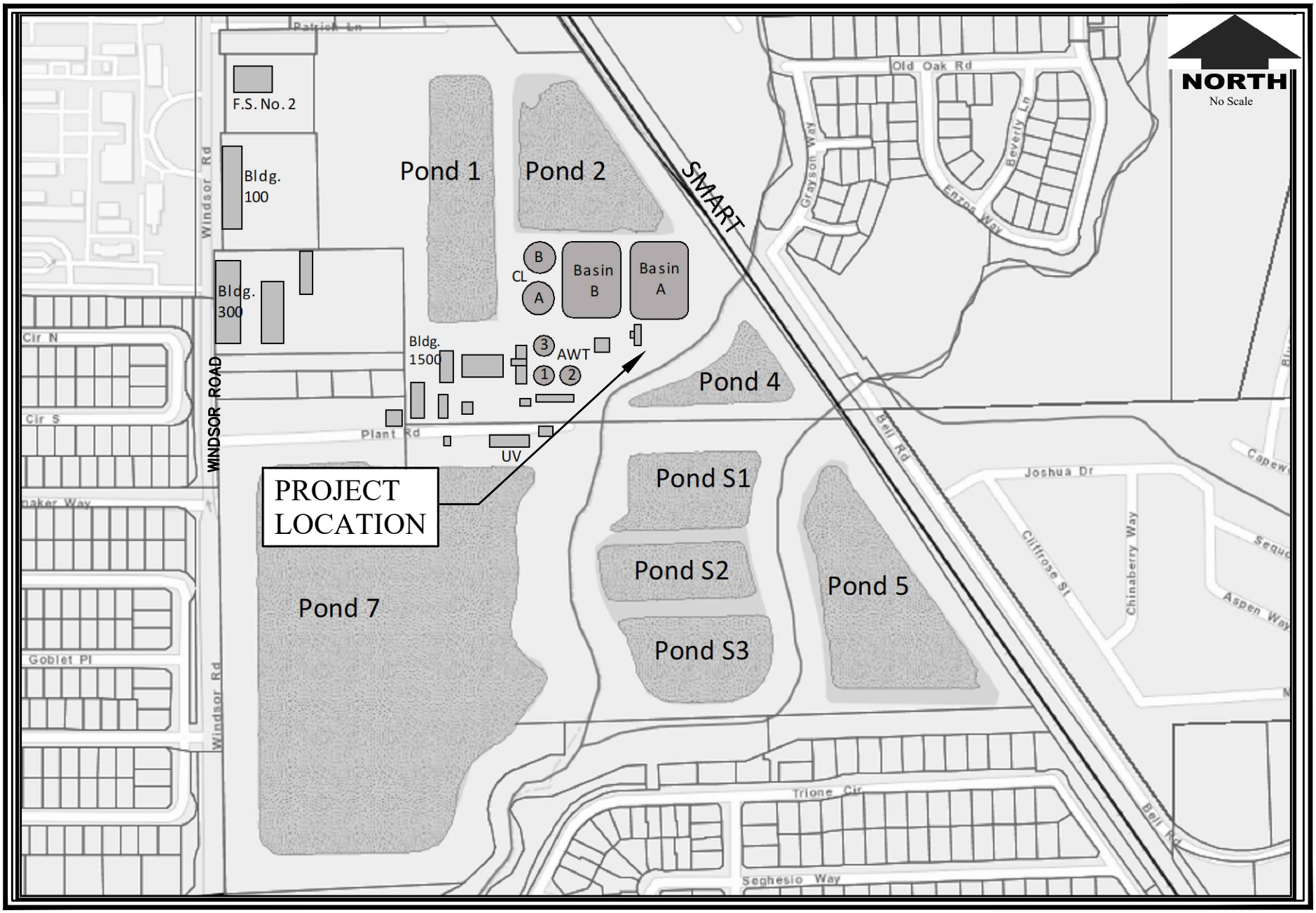
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-1.7: The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	10,000	-	-	15,000		-	-	$ 15,000
	Construction	-	-	-	-	437,000	-	-	$ 437,000
	Construction Engineering	-	-	-	-	12,000	-	-	$ 12,000
	Project Management	-	-	-	-		-	-	$ -
	Legal Services/Admin	-	-	-	-		-	-	$ -
					-				
	Total	$ 10,000	$ -	$ -	$ 15,000	$ 449,000	$ -	$ -	$ 464,000
Funding Sources:	WR Capital	10,000	-	-	15,000	449,000	-	-	$ 464,000
									$ -
	Total	$ 10,000	$ -	$ -	$ 15,000	$ 449,000	$ -	$ -	$ 464,000
Estimated O & M									

Headworks Screen Upgrade at Water Reclamation Facility



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Headworks Screen Upgrade at Water Reclamation Facility

Project No: 2082

GL No: 430-82-25-2082-4510-000

Project Description:
This project consists of the purchase and installation of a mechanical screen to upgrade and replace the existing screen at the headworks. In addition, a screenings washer and compactor will be purchased and installed at the headworks to replace the existing screenings conveyor. Originally planned for construction concurrently with CIP Project 1114, this project is planned to be designed one year after completion and observed operation of the Influent Wet Well Screen Project.

Department:
Public Works - Water Reclamation

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
The moving media screen (headworks screen), which has been in place since 1996, is in poor condition and has surpassed its useful service life. An engineer's assessment indicated that the screening process was not fully effective and large quantities of otherwise screenable material are passing through the headworks. The effects of inadequate screening are many: increased wear on equipment, loading of aeration basins with unscreened material, decreased energy efficiency of aeration blowers, increased operation and maintenance labor requirements, and increased odors.

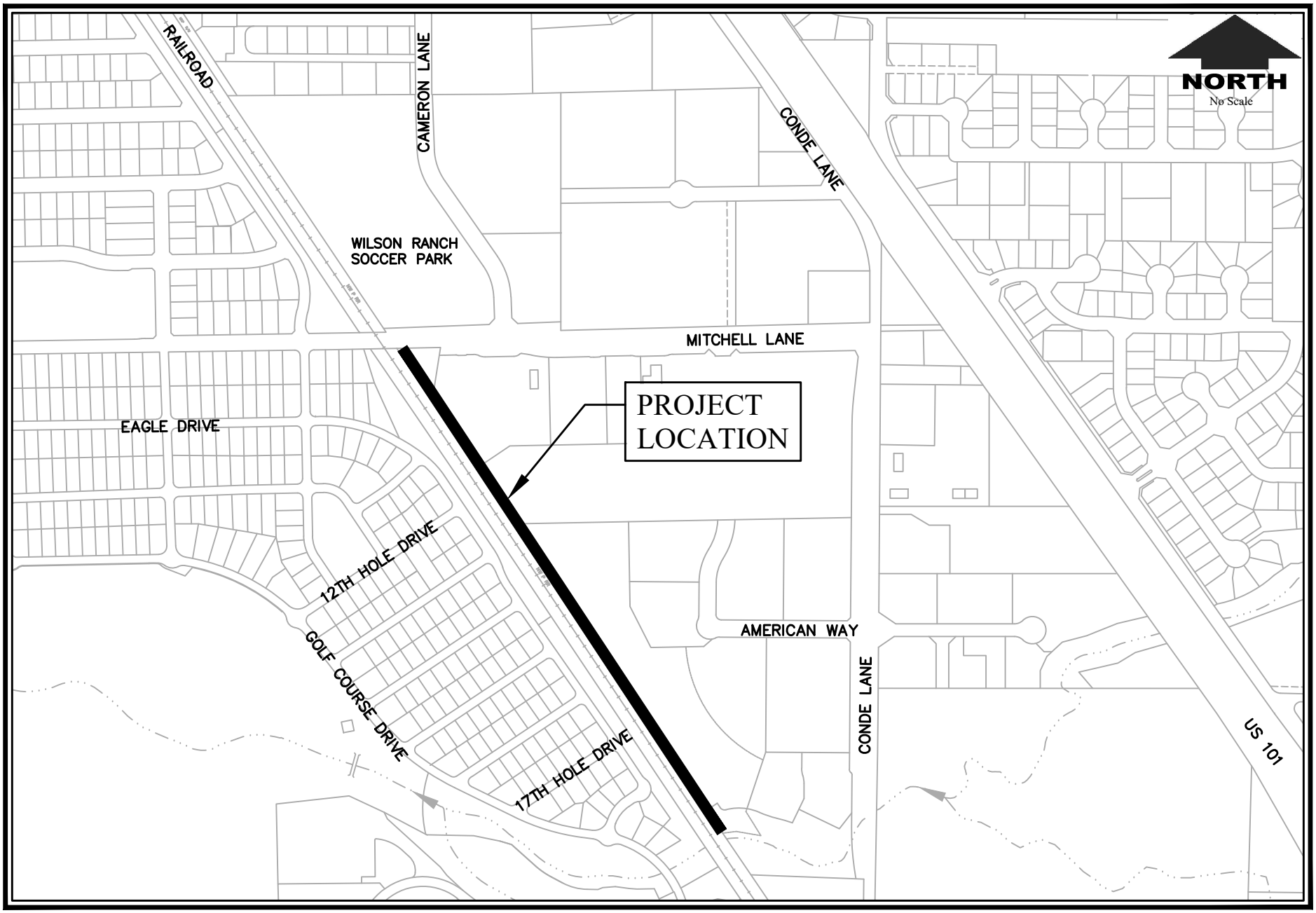
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-3.1: The Town shall provide sufficient wastewater conveyance, storage, and pumping capacity for peak sewer flows and infiltration, and Policy PFS-1.7: The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-		45,000	-	-	-	-	$ 45,000
	Construction	-	-		360,000	-	-	-	-	$ 360,000
	Construction Engineering	-	-		45,000	-	-	-	-	$ 45,000
	Project Management	-	-					-	-	$ -
	Legal Services/Admin	-	-					-	-	$ -
	Total	$ -	$ -		$ 450,000	$ -	$ -	$ -	$ -	$ 450,000
Funding Sources:	WR Capital				450,000	-	-	-	-	$ 450,000
	Total	$ -	$ -		$ 450,000	$ -	$ -	$ -	$ -	$ 450,000
Estimated O & M										

Conde Business Park Sewer Easement Access Road Resurfacing



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Conde Business Park Sewer Easement Access Road Resurfacing

Project No: 2182

GL No: 430-82-25-2182-4510-000

Project Description:
The project involves construction of a 2000-foot sewer manhole access gravel road along the east side of the SMART railroad tracks between American Lane and Mitchell Way.

Department:
Public Works - Water Reclamation

Priority:

_____	**Mandate**
_____	**Necessary**
X	**Desirable**

Justification:
Town Staff currently has limited access to the 24-inch sewer main that runs through undeveloped property along the east side of the SMART railroad tracks between Shiloh Road and Mitchell Way. There are currently five sewer manholes that are difficult to reach with trailer-mounted equipment. During wet periods, access is even more limited with swampy field conditions. This project would construct a gravel road, capable of providing access for the new vactor truck to service the sewer main.

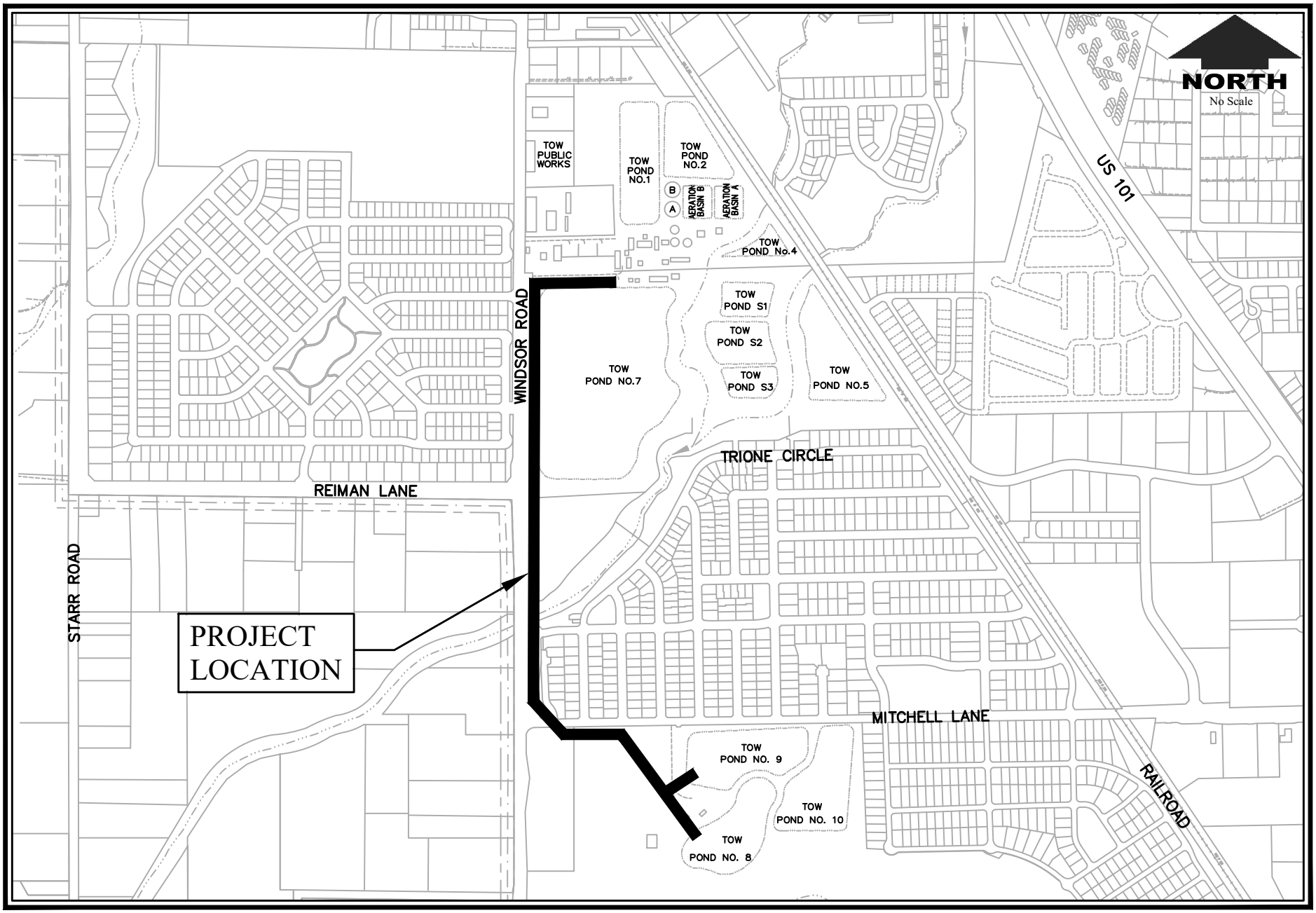
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-3.1: The Town shall provide sufficient wastewater conveyance, storage, and pumping capacity for peak sewer flows and infiltration, and Policy PFS-1.7: The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-	-	15,000	-	-	-	$ 15,000
	Construction	-	-	-	103,000	-	-	-	$ 103,000
	Construction Engineering	-	-	-	8,000	-	-	-	$ 8,000
	Project Management	-	-	-	8,000	-	-	-	$ 8,000
	Legal Services/Admin	-	-	-		-	-	-	$ -
	Total	$ -	$ -	$ -	$ 134,000	$ -	$ -	$ -	$ 134,000
Funding Sources:	WR Capital			-	134,000	-	-	-	$ 134,000
									$ -
	Total	$ -	$ -	$ -	$ 134,000	$ -	$ -	$ -	$ 134,000
Estimated O & M									

Mitchell Lane Transfer Pipeline



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Mitchell Lane Transfer Pipeline

Project No: 1401

GL No: 430-82-25-21XX-4510-000

Project Description:
Replace the Mitchell Lane Transfer Pipeline. Project would include replacement of the 12-inch pipeline that is used for transfers of tertiary water from the treatment plant to Ponds 8, 9, and 10 located at the Golf Course. Temporary above ground piping located adjacent to the Mitchell Lane Pump Station that provides for transfer capability from the Sonoma County Water Agency Airport Treatment Plant, would be replaced as well.

Department:
Public Works - Water Reclamation

Priority:

	Mandate
	Necessary
X	**Desirable**

Justification:
The existing Mitchell Lane transfer pipeline cannot withstand service pressures which limits its carrying capacity. The project will provide increased operational flexibility in transferring recycled water from Pond 7 to Ponds 8, 9 and 10 and in transferring recycled water to and from the Airport Larkfield Wikiup Sanitation Zone system.

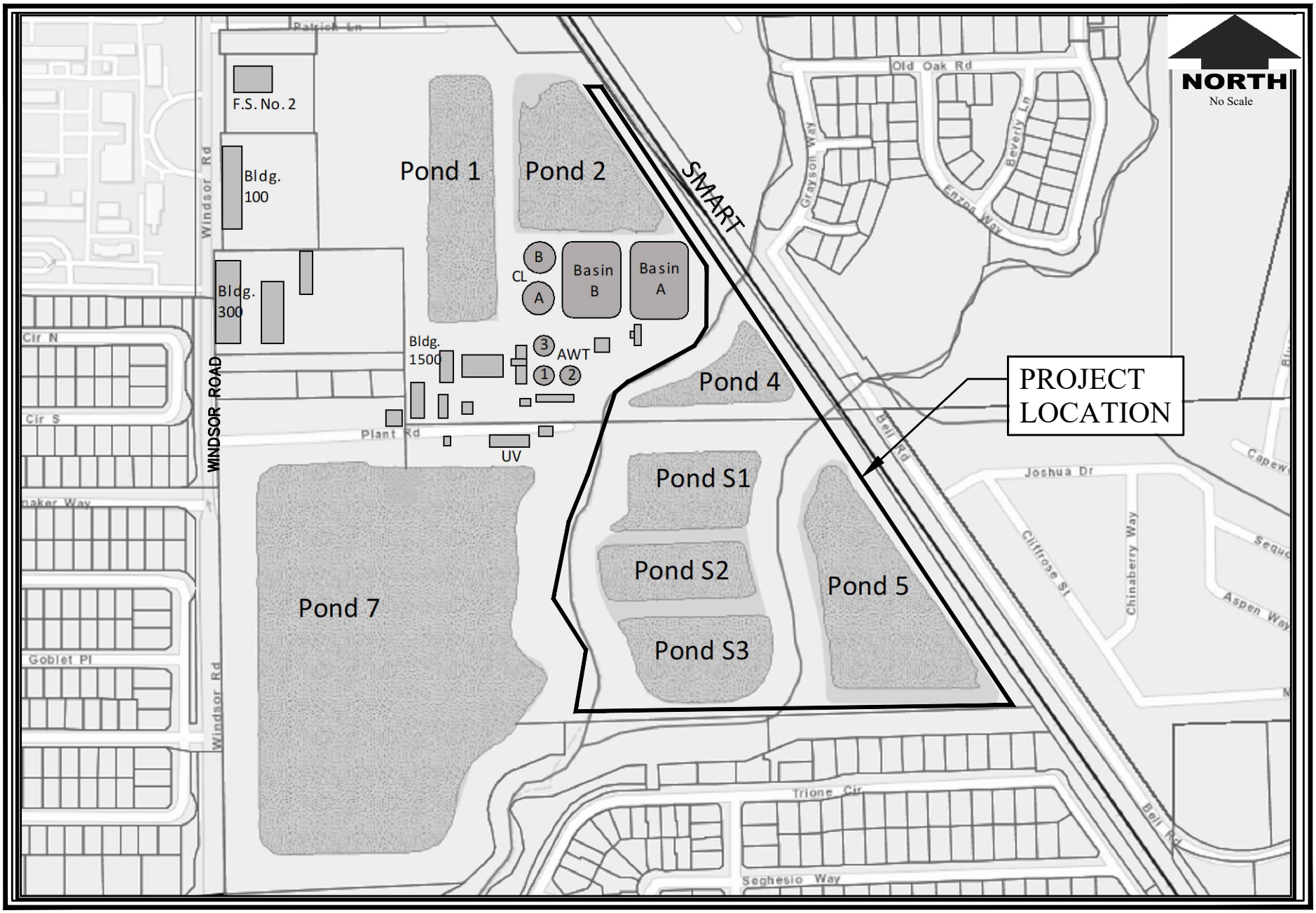
Appropriations beyond the 5 year program period are needed to complete project:

YES **( )**
NO **(X)**

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-3.1: The Town shall provide sufficient wastewater conveyance, storage, and pumping capacity for peak sewer flows and infiltration, and Policy PFS-1.7: The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-	-	-	43,000	-	-	43,000
	Construction	-	-	-	-	-	655,000	-	655,000
	Construction Engineering	-	-	-	-	-	43,000	-	43,000
	Project Management	-	-	-	-	-	10,000	-	10,000
	Legal Services/Admin	-	-	-	-	-	3,000	-	3,000
	Total	$ -	$ -	$ -	$ -	$ 43,000	$ 711,000	$ -	$ 754,000
Funding Sources:	WR Capital			-	-	43,000	711,000	-	$ 754,000 -
	Total	$ -	$ -	$ -	$ -	$ 43,000	$ 711,000	$ -	$ 754,000
Estimated O & M:									

Security Fencing Repair and Upgrade at Water Reclamation Facility



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Security Fencing Repair and Upgrade at Water Reclamation Facility

Project No: 1110

GL No: 430-82-25-1110-4510-000

Project Description:
The project involves repair of the existing fence, installation of additional fencing, and brush clearing along both sides of the fence line. The project also consists of removing all fencing from the creek beds and placing fencing along the creek banks above the flood stage elevation. The fencing along the creek banks would tie into fencing placed along the railing of the pedestrian and vehicle bridges. Areas of new fencing are along the western side of Pond 5 and in-between the pedestrian and vehicle bridges between the treatment plant and the sludge ponds.

Department:
Public Works - Water Reclamation

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
The intent of the project is to minimize or prevent future break-ins and vandalism that has been experienced in the past. Secure fencing will limit potential losses of Town assets from theft and vandalism and limit the potential liabilities from trespassers onto the WRF. Site fencing is generally in good condition, with the exception of areas where the fence had been destroyed by creek flows or where evidence of unauthorized entry existed.

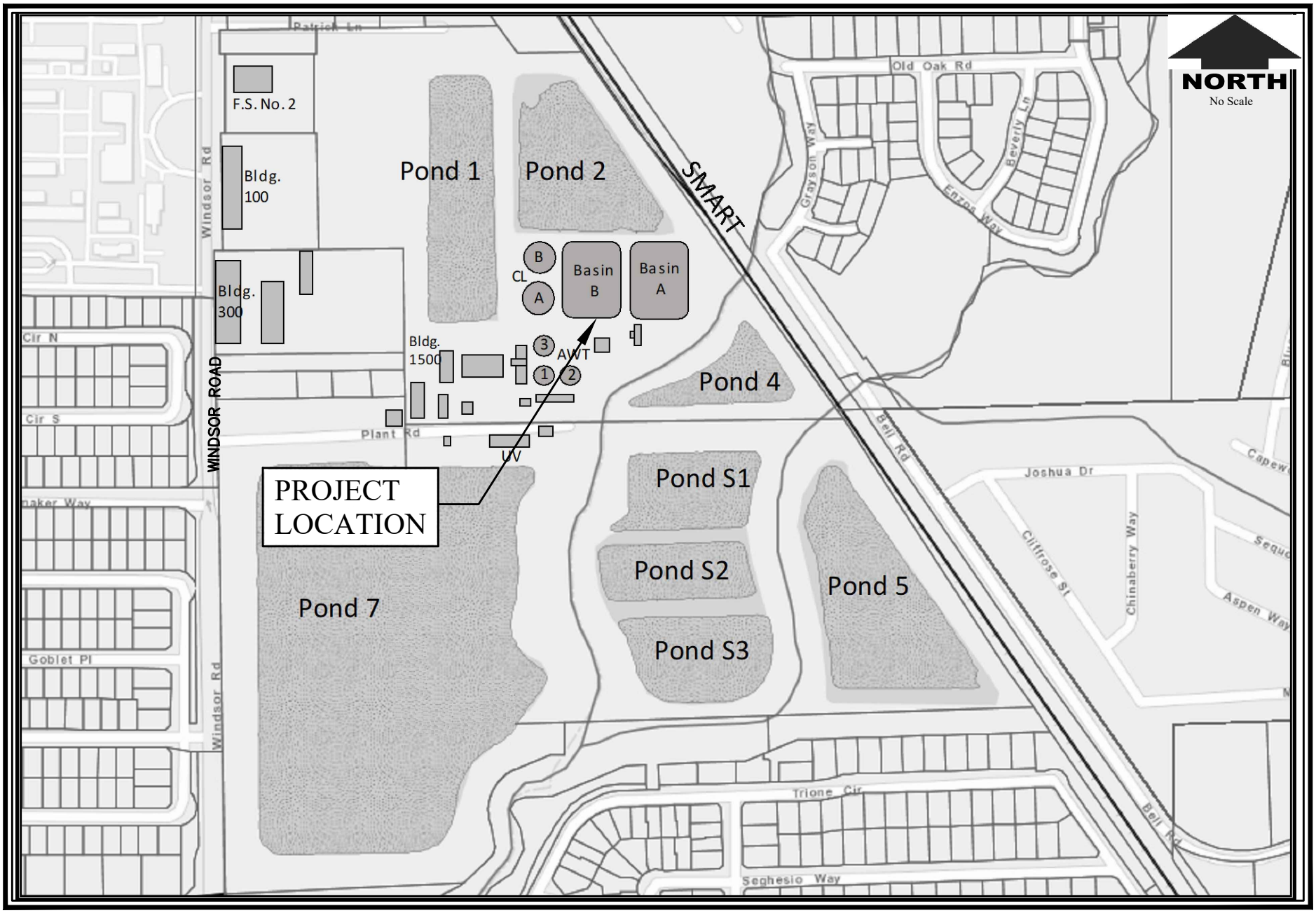
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-1.7: The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-		-	-	17,000	-	-	$ 17,000
	Construction	-	-		-	-	202,000	-	-	$ 202,000
	Construction Engineering	-	-		-	-	17,000	-	-	$ 17,000
	Project Management	-	-		-	-	21,000	-	-	$ 21,000
	Legal Services/Admin	-	-		-	-	16,000	-	-	$ 16,000
	Total	$ -	$ -		$ -	$ -	$ 273,000	$ -	$ -	$ 273,000
Funding Sources:	WR Capital				-	-	273,000	-	-	$ 273,000
	Total	$ -	$ -		$ -	$ -	$ 273,000	$ -	$ -	$ 273,000
Estimated O & M										

Upgrade Selector Box in Aeration Basin B at Water Reclamation Facility



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Upgrade Selector Box in Aeration Basin B at Water Reclamation Facility

Project No: New

GL No:

Project Description:
This project will resize the selector box in Aeration Basin B. During the time of construction, aeration diffusers and piping will be installed at the basin.

Department:
Public Works - Water Reclamation

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
Th selector box is designed to promote growth of beneficial organisms in the aeration basin. The selector box in Basin B is not sized optimally for phosphorus removal. The project will retrofit Basin B selector box by resizing it to provide better phosphorus removal in light of the more stringent Permit requirements. The basin is in need of improved air diffuser and piping which were originally installed in 2000.

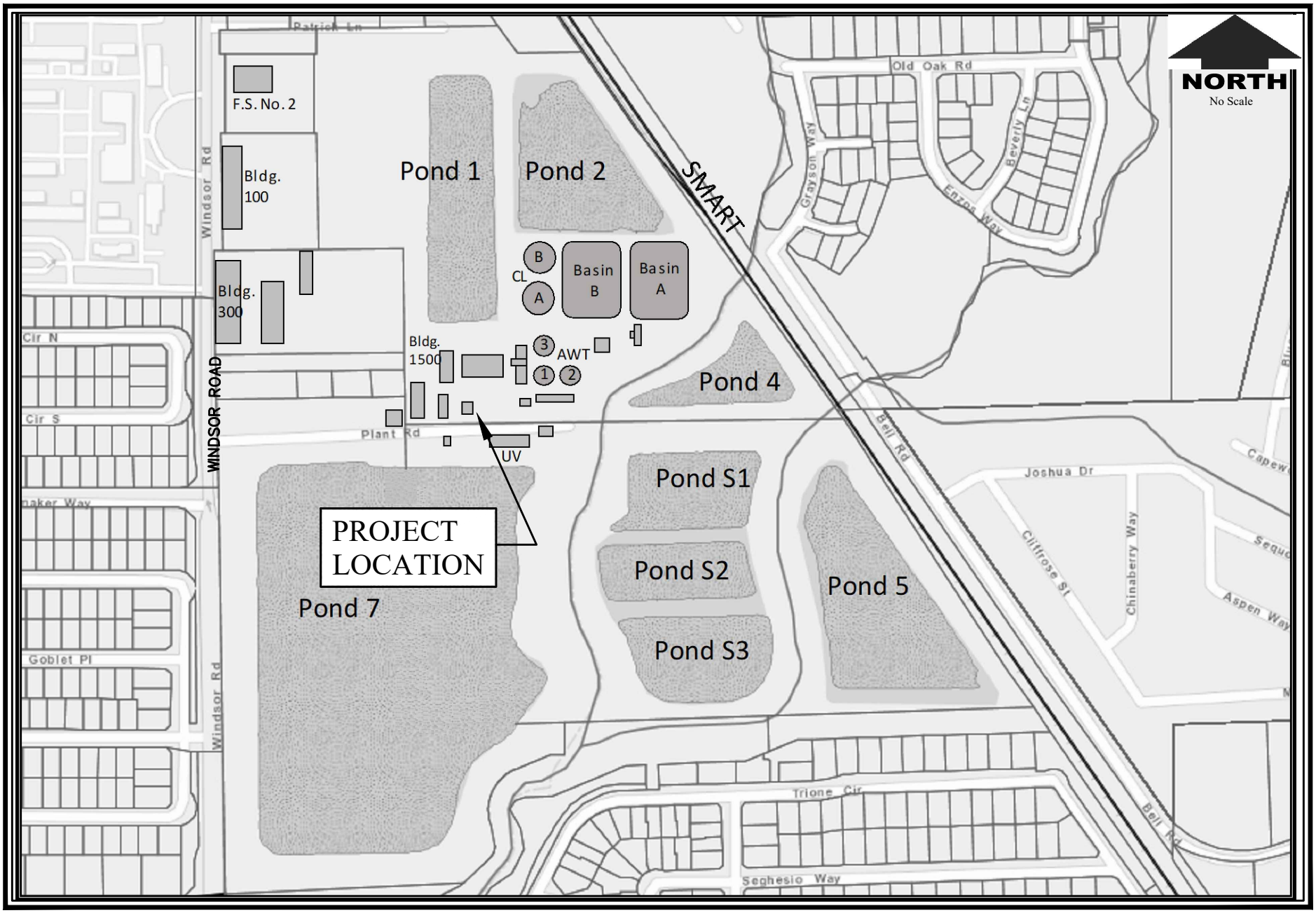
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-3.1: The Town shall provide sufficient wastewater conveyance, storage, and pumping capacity for peak sewer flows and infiltration, and Policy PFS-1.7: The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	20,000	-		-	-	50,000	-	-	$ 50,000
	Construction	-	-		-	-	-	-	-	$ -
	Construction Engineering	-	-		-	-	-	682,000	-	$ 682,000
	Project Management	-	-		-	-	3,000	60,000	-	$ 63,000
	Legal Services/Admin	2,000	-		-	-	-	-	-	$ -
	Total	$ 22,000	$ -		$ -	$ -	$ 53,000	$ 742,000	$ -	$ 795,000
Funding Sources:	WR Capital	22,000	-		-	-	53,000	742,000	-	$ 795,000
	Total	$ 22,000	$ -		$ -	$ -	$ 53,000	$ 742,000	$ -	$ 795,000
Estimated O & M:										

Emergency Generator Upgrade and Replacement at Water Reclamation Facility



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Emergency Generator Upgrade and Replacement at Water Reclamation Facility

Project No: New

GL No:

Project Description:
The project will replace the current Water Reclamation Facility 800 kW emergency diesel generator with a larger unit to support the complete Plant in the event of a power outage. The Project will likely include expansion or reconstruction of the generator building.

Department:
Public Works - Water Reclamation

Priority:

_____	**Mandate**
_____	**Necessary**
X	**Desirable**

Justification:
The current WRF emergency generator is not adequately sized to operate the entire WRF during a power outage. Specifically, the generator does not provide emergency power to the blower building nor to the effluent pump station. With expected increases in pre-planned power shutdowns by the utility company, full-plant emergency power is desired. The biology in the aeration basins cannot be sustained long without operation of the blowers. In addition, during large storm events, when unplanned power outages are most common, the ability to discharge treated water via the effluent pump station is crucial. This project will be phased with another project to replace the WRF main switchboard.

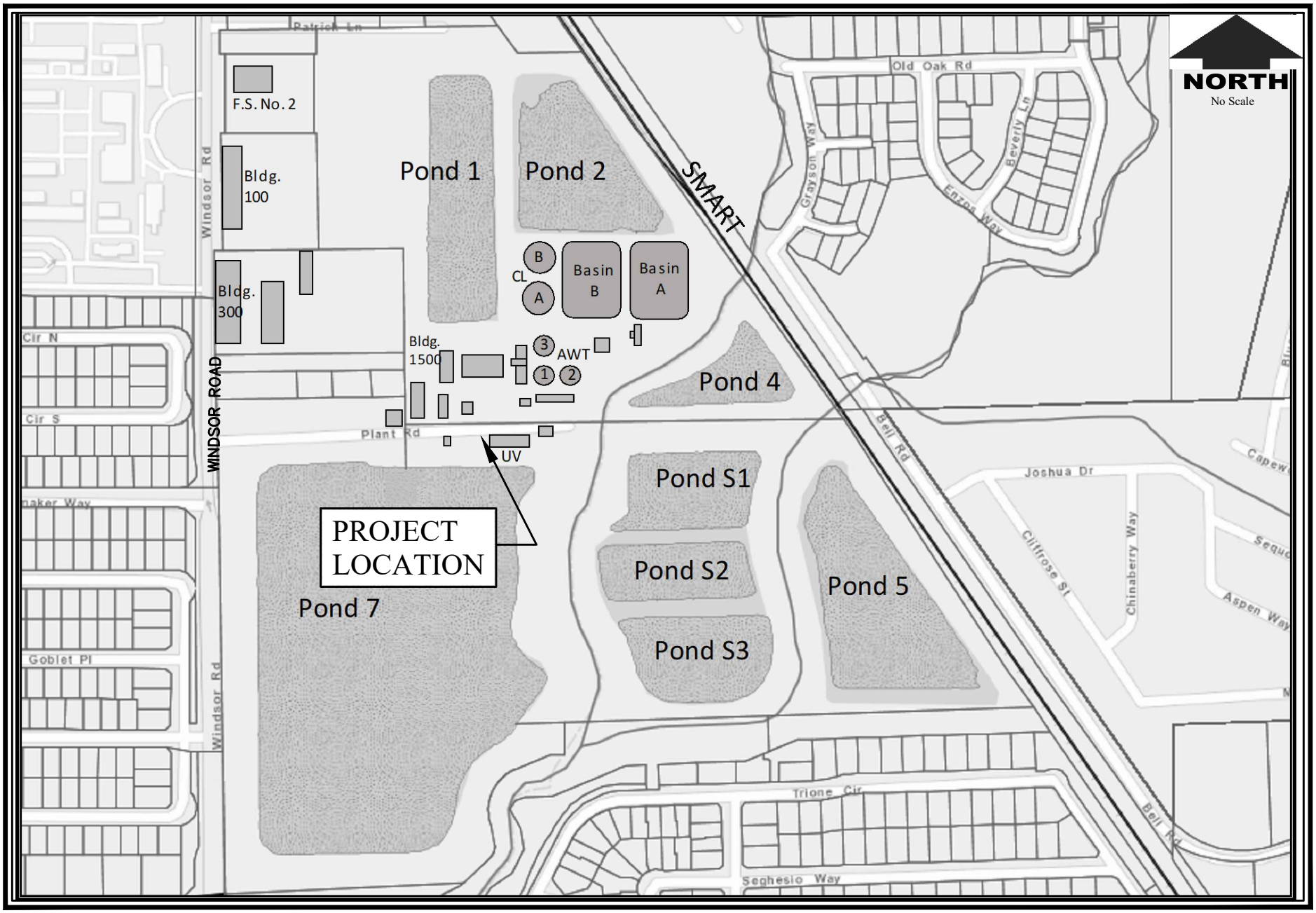
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-3.1: The Town shall provide sufficient wastewater conveyance, storage, and pumping capacity for peak sewer flows and infiltration, and Policy PFS-1.7: The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-		-	-	170,000	-	-	$ 170,000
	Construction	-	-		-	-	-	-	2,100,000	$ 2,100,000
	Construction Engineering	-	-		-	-	-	-	210,000	$ 210,000
	Project Management	-	-		-	-	-	6,000	-	$ 6,000
	Legal Services/Admin	-	-		-	-	-	-	-	$ -
	Total	$ -	$ -		$ -	$ -	$ 170,000	$ 6,000	$ 2,310,000	$ 2,486,000
Funding Sources:	WR Capital	-	-		-	-	170,000	6,000	2,310,000	$ 2,486,000
	Total	$ -	$ -		$ -	$ -	$ 170,000	$ 6,000	$ 2,310,000	$ 2,486,000
Estimated O & M										

Main Switchboard Replacement at Water Reclamation Facility



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Main Switchboard Replacement at Water Reclamation Facility

Project No: New

GL No:

Project Description:
The Project includes replacing aged components of the Water Reclamation Facilities (WRF) Main Power Switchboard. The project also includes an upgrade to allow all plant facilities to be powered by the emergency diesel generator.

Department:
Public Works - Water Reclamation

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
The Water Reclamation Plant Modernization Study identified the need to replace aging components of the main power switchboard which distributes utility power to all locations of the Plant. In addition, a notable deficiency of the switchboard is that the current emergency diesel generator cannot be used to power the blowers or the effluent pump station. During scheduled and emergency power outages, maintaining these functions is critical to keep the biological processes viable and for continued discharges during large storm events when power losses are most likely to occur. This project will be phased with another project to increase the size of the emergency generator.

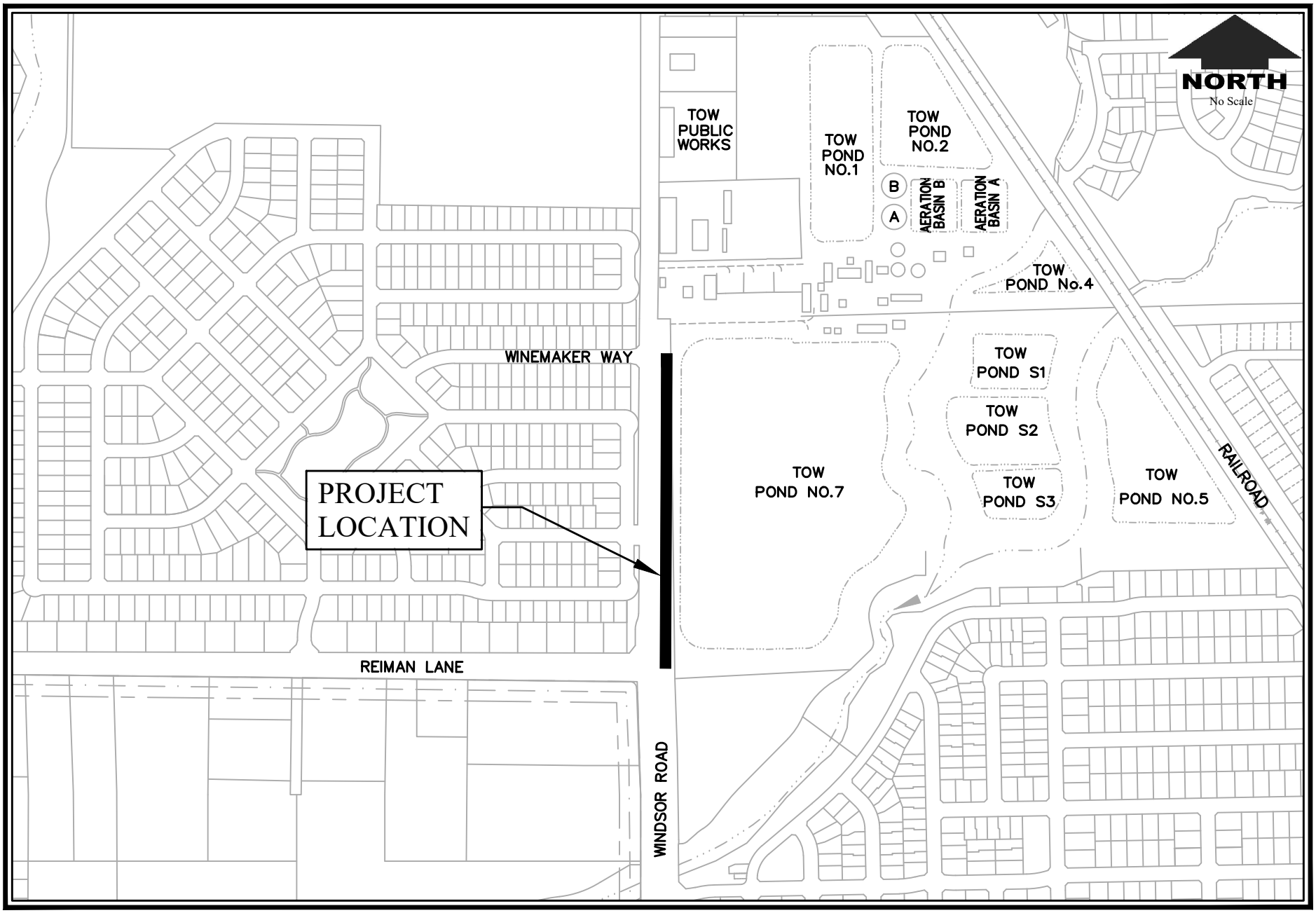
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-3.1: The Town shall provide sufficient wastewater conveyance, storage, and pumping capacity for peak sewer flows and infiltration, and Policy PFS-1.7: The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-		-	-	172,000	-	-	$ 172,000
	Construction	-	-		-	-	-	-	-	$ -
	Construction Engineering	-	-		-	-	-	140,000	-	$ 140,000
	Project Management	-	-		-	-	-	-	-	$ -
	Legal Services/Admin	-	-		-	-	-	-	-	$ -
	Total	$ -	$ -		$ -	$ -	$ 172,000	$ 140,000	$ -	$ 312,000
Funding Sources:	WR Capital	-	-		-	-	172,000	140,000	-	$ 312,000
	Total	$ -	$ -		$ -	$ -	$ 172,000	$ 140,000	$ -	$ 312,000
Estimated O & M										

Undergrounding of Overhead Utilities in Front of Pond 7



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Undergrounding of Overhead Utilities in Front of Pond 7

Project No: New

GL No:

Project Description:
Trenching and placing of approxinmately 965 feet of overhead power and communication lines along Windsor Road along the Water Reclamation Facility property frontage.

Department:
Public Works

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
Windsor Road is an emergency evacuation corridor where above ground powerlines could result in damage and reduced access in the event of an emergency. This project is consistent with the General Plan policy to underground overhead utilities along evacuation corridors that may be impacted by wildfires and downed power lines during fire and flood events.

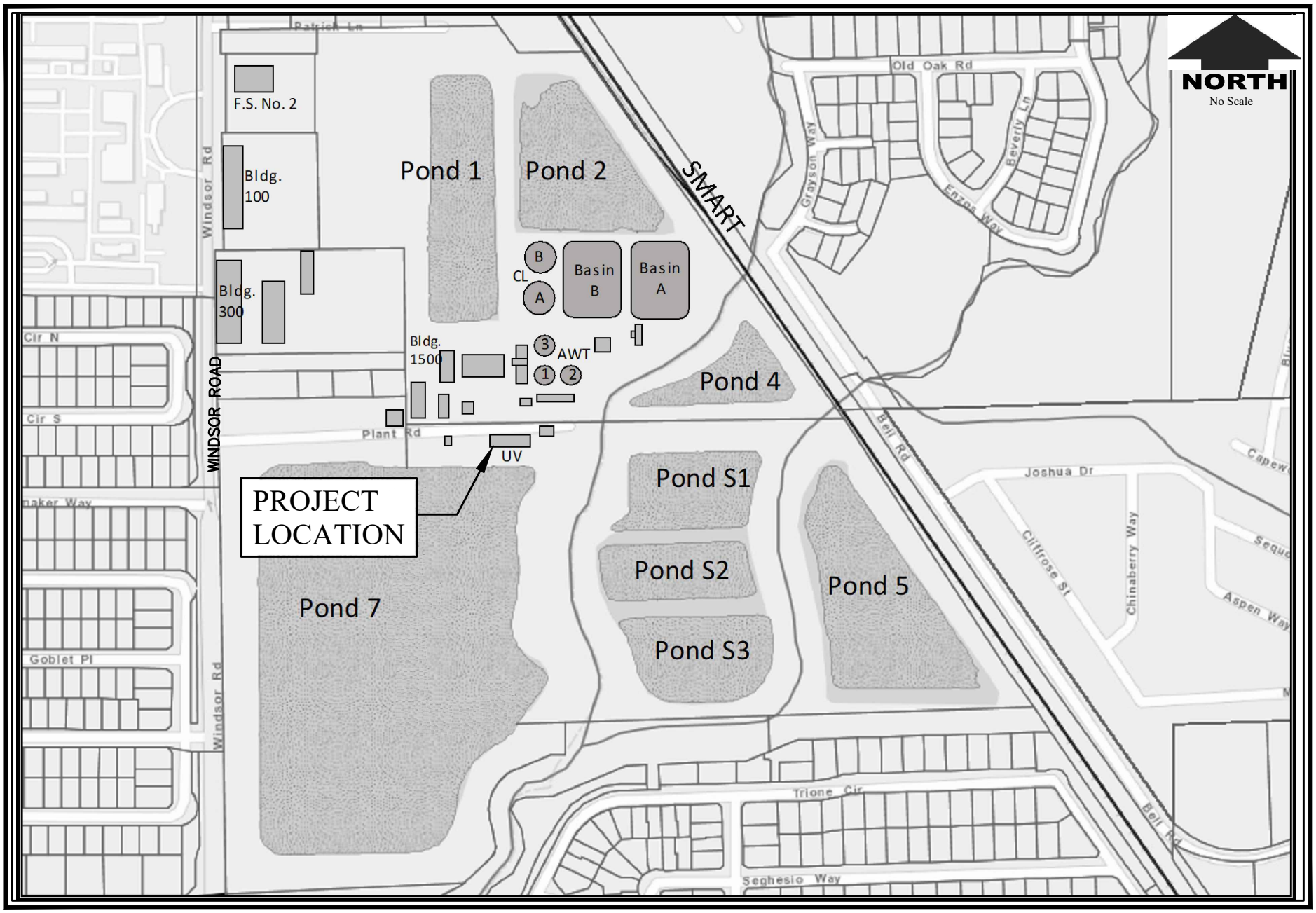
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO ( )

General Plan Consistency:
This project is consistent under General Plan Policy PHS-4.9: Priority Undergrounding. Windsor Road is a critical evacuation route and this policy states that such route shall be more reliability and minimize hazards from fallen power lines.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-	-	-	69,136	-	-	$ 69,136
	Construction	-	-	-	-	553,085	-	-	$ 553,085
	Construction Engineering	-	-	-	-	69,136	-	-	$ 69,136
	Project Management	-	-	-	-	-	-	-	$ -
	Legal Services/Admin	-	-	-	-	-	-	-	$ -
	Total	$ -	$ -	$ -	$ -	$ 691,357	$ -	$ -	$ 691,357
Funding Sources:	WR Capital	-	-	-	-	20,679	-	-	$ 20,679
	Water Capital	-	-	-	-	20,678	-	-	$ 20,678
	Rule 20A funds (PG&E)	-	-	-	-	650,000	-	-	$ 650,000
	Total	$ -	$ -	$ -	$ -	$ 691,357	$ -	$ -	$ 691,357
Estimated O & M									

Ultraviolet (UV) System Replacement at Water Reclamation Facility



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Ultraviolet (UV) System Replacement at Water Reclamation Facility

Project No: New

GL No:

Project Description:
This project consists of the replacement of the ultraviolet (UV) disinfection treatment system with an updated model.

Department:
Public Works - Water Reclamation

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
The Water Reclamation Facility Moderniaztion Study noted that the UV system has performed past its usefull engineering life. The components are aged and not fully supported by the manufacturer. The modernizaton recommends replacement of the UV System within the next five years. This project includes design of a new system in FY23-24 with construction there after.

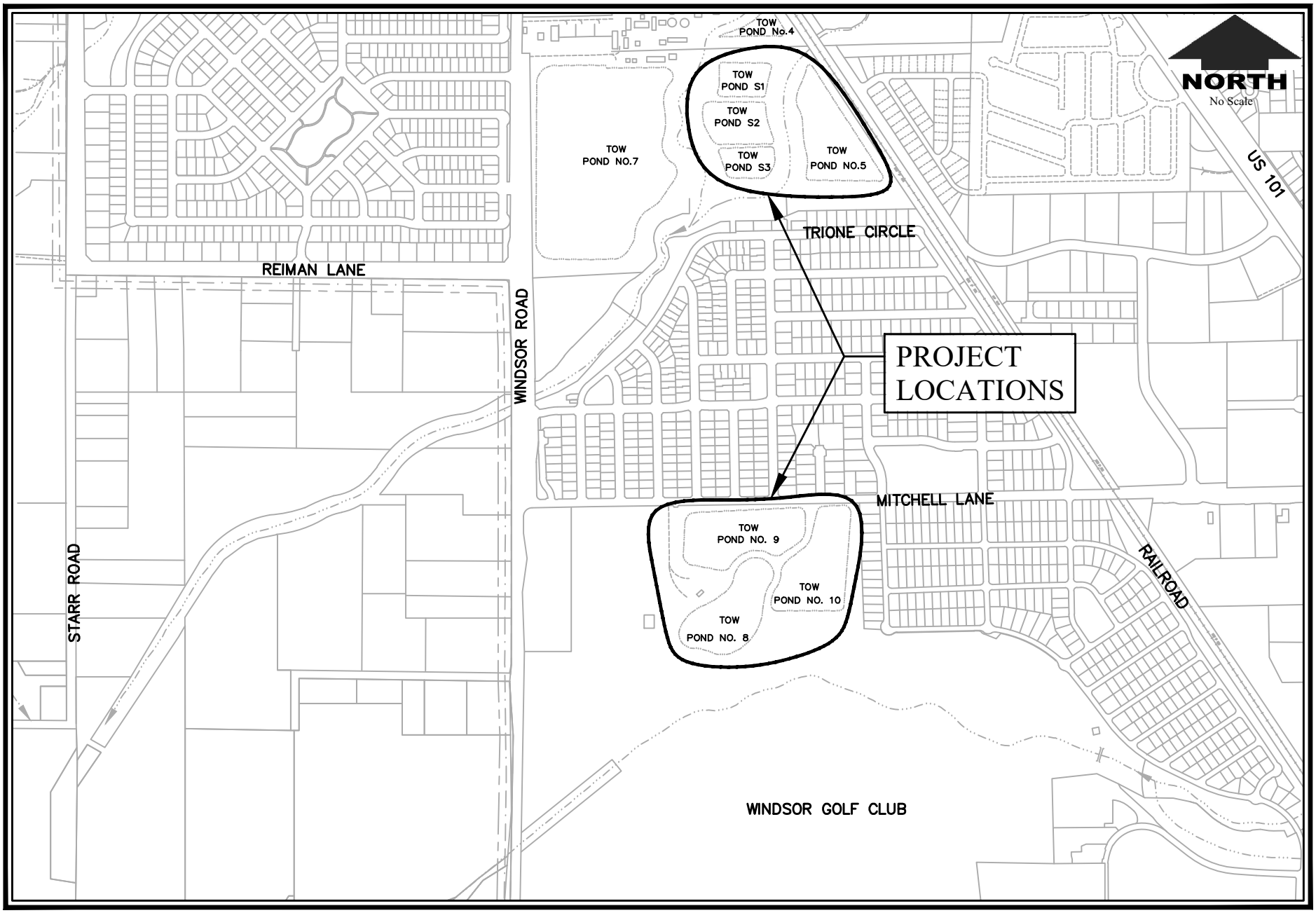
Appropriations beyond the 5 year program period are needed to complete project:

YES (X)
NO ( )

General Plan Consistency:
The project is consistent with General Plan Public Facilities and Services Policy PFS-3.1: The Town shall provide sufficient wastewater conveyance, storage, and pumping capacity for peak sewer flows and infiltration, and Policy PFS-1.7: The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design	-	-	-	-	-	-	266,000	$ 266,000
	Construction	-	-	-	-	-	-	-	$ -
	Construction Engineering	-	-	-	-	-	-	-	$ -
	Project Management	-	-	-	-	-	-	-	$ -
	Legal Services/Admin	-	-	-	-	-	-	-	$ -
	Total	$ -	$ -	$ -	$ -	$ -	$ -	$ 266,000	$ 266,000
Funding Sources:	WR Capital	-	-	-	-	-	-	266,000	$ 266,000
	Total	$ -	$ -	$ -	$ -	$ -	$ -	$ 266,000	$ 266,000
Estimated O & M									

Berm Repair Recycled Water Storage Ponds



WR-42

TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Berm Repair Recycled Water Storage Ponds

Project No: 2083

GL No:

Project Description:
This project will make earthwork repairs to the south berm of recycled water Pond 10

Department:
Public Works - Water Reclamation

Priority:
X **Mandate**
_____ **Necessary**
_____ **Desirable**

Justification:
A localized section of the south berm of Pond 10 is showing signs of seepage. A repair is needed to prevent further erosion and to reinforce the berm.

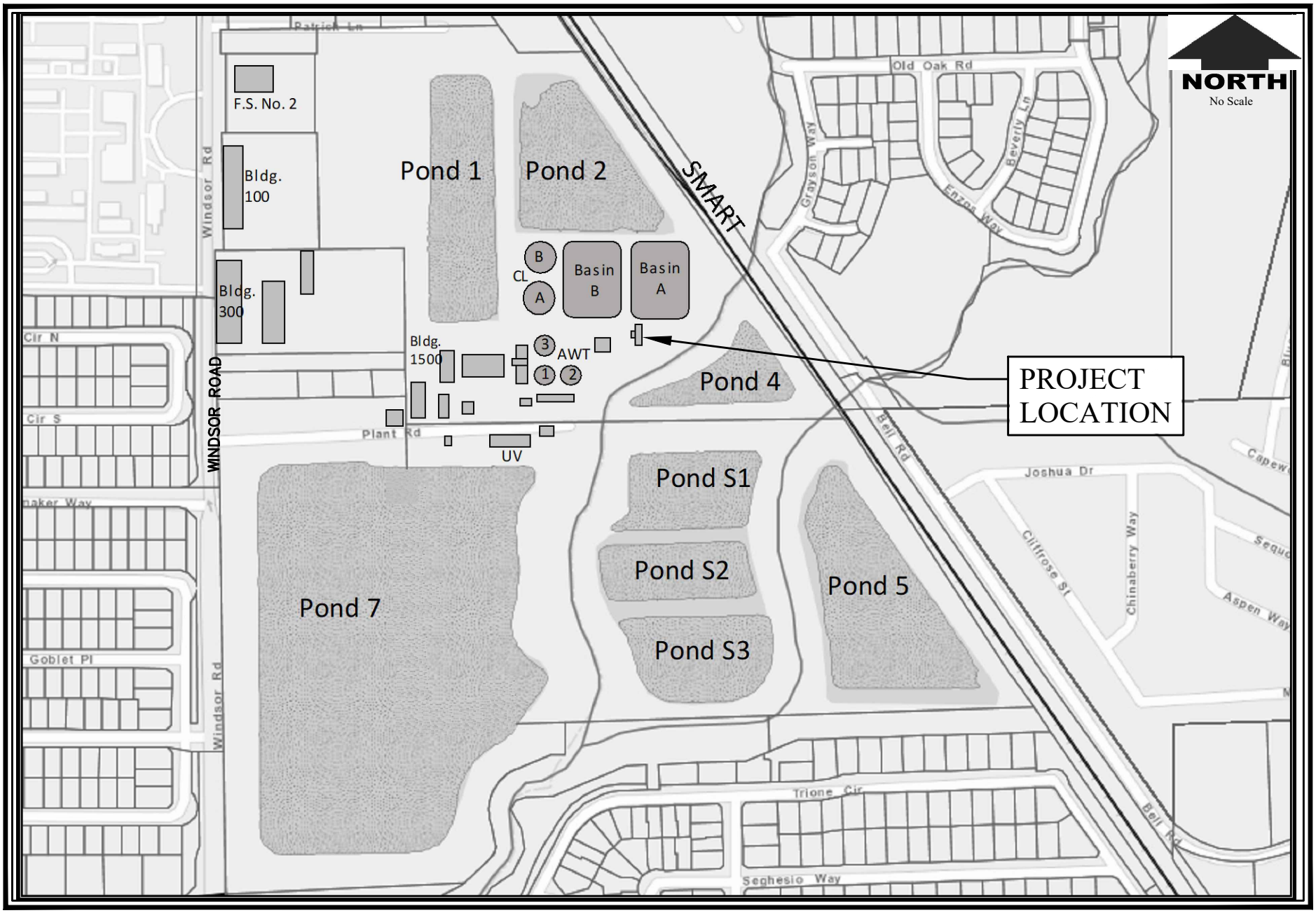
Appropriations beyond the 5 year program period are needed to complete project:

YES (X)
NO ( )

General Plan Consistency:
The Project is consistent with General Plan Utilities Policy E.4 - Develop minimum acceptable standards for the provision of essential utilities and deliver these services in a cost-efficient manner to reduce the costs of service delivery.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design/Geotechnical	-	-		40,000	-	112,900	25,000	25,000	$ 202,900
	Construction	-	-		95,000	-	565,000	95,000	95,000	$ 850,000
	Construction Engineering	-	-		-	-	-	-	-	$ -
	Project Management	-	-		-	-	113,000	20,000	20,000	$ 153,000
	Legal Services/Admin	-	-		-	-	-	-	-	$ -
			-		-	-	-	-	-	$ -
	Total	$ -	$ -		$ 135,000	$ -	$ 790,900	$ 140,000	$ 140,000	$ 1,205,900
Funding Sources:	WR Capital	-	-		135,000	-	790,900	140,000	140,000	$ 1,205,900
					-	-	-	-	-	$ -
					-	-	-	-	-	$ -
					-	-	-	-	-	$ -
					-	-	-	-	-	$ -
	Total	$ -	$ -		$ 135,000	$ -	$ 790,900	$ 140,000	$ 140,000	$ 1,205,900
Estimated O & M										

Grit Classifier Replacement at Water Reclamation Facility



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Grit Classifier Replacement at Water Reclamation Facility

Project No: 2084

GL No:

Project Description:
The current grit classifier, which removes sand and gravel from the wastestream, is corroded and has functioned beyond its service life. Due to the high degree of corrosion, an engineering assessment recommended replacement of the grit classifier, rather than repair.

Department:
Public Works - Water Reclamation

Priority:
X **Mandate**
_____ **Necessary**
_____ **Desirable**

Justification:
The existing grit classifier is severly corroded and needs to be replaced. The grit system has been in operation beyond its service life and is needed for treatment plant operations and to protect the downstream treatment processes.

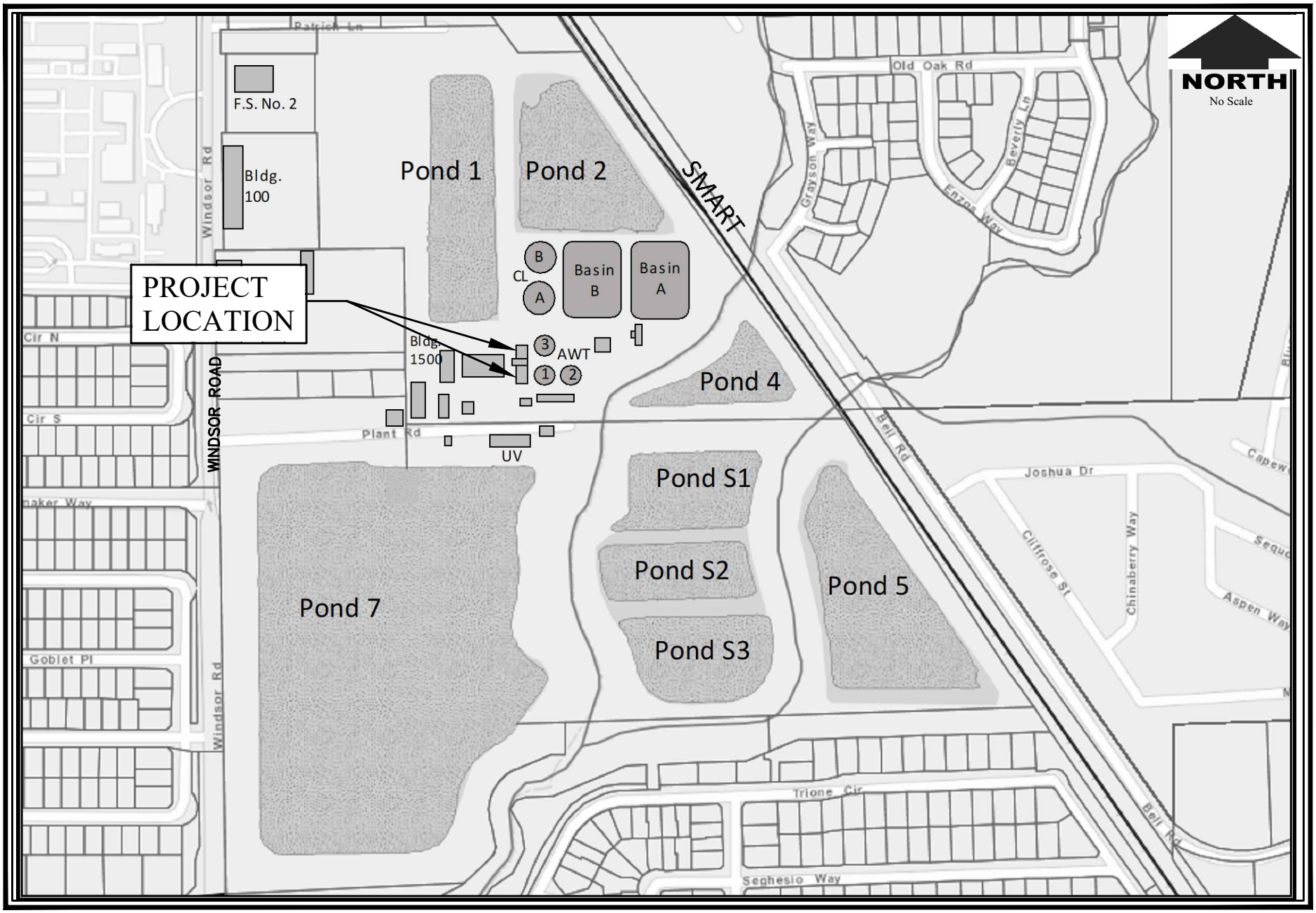
Appropriations beyond the 5 year program period are needed to complete project:

YES ( )
NO (X)

General Plan Consistency:
The Project is consistent with General Plan Utilities Policy E.4 - Develop minimum acceptable standards for the provision of essential utilities and deliver these services in a cost-efficient manner to reduce the costs of service delivery.

	Item	Budget FY 18-19	Est Expend FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Design/Geotechnical	-	-	20,000	-	-	-	-	$ 20,000
	Construction	-	-	160,000	-	-	-	-	$ 160,000
	Construction Engineering	-	-	20,000	-	-	-	-	$ 20,000
	Project Management	-	-	-	-	-	-	-	$ -
	Legal Services/Admin	-	-	-	-	-	-	-	$ -
			-	-	-	-	-	-	$ -
	Total	$ -	$ -	$ 200,000	$ -	$ -	$ -	$ -	$ 200,000
Funding Sources:	WR Capital	-	-	200,000	-	-	-	-	$ 200,000
				-	-	-	-	-	$ -
				-	-	-	-	-	$ -
				-	-	-	-	-	$ -
				-	-	-	-	-	$ -
	Total	$ -	$ -	$ 200,000	$ -	$ -	$ -	$ -	$ 200,000
Estimated O & M									

Replacement Program for Flocculation Tank Mixers at Water Reclamation Facility



TOWN OF WINDSOR

Town of Windsor
Five Year Capital Improvement Program
Project Detail Form

Project Name:
Replacement Program for Flocculation Tank Mixers at Water Reclamation Facility

Project No: 2085

GL No:

Project Description:
This project will replace two flocculation tank mixers each year until all 12 mixers are replaced. Originally installed prior to 2000, the mixers have reched the end of their expected 10-year operational life.

Department:
Public Works - Water Reclamation

Priority:

	Mandate
X	**Necessary**
	Desirable

Justification:
The flocculation tank mixers at the secondary clarifiers are at the end of their design life. The mixers blend chemicals alumer and polymer as part of the flocculation process and a critical to the the secondary wastewater treatement process. The mixers are in need of replacement. This project would phase the needed equipment replacement over a six years to minimize disrutption to operations and ensure system redundancy.

Appropriations beyond the 5 year program period are needed to complete project:

YES (X)
NO ( )

General Plan Consistency:
The project is consistent with General Plan Public Facilities Policy PFS-1.7: The Town shall give high priority in capital improvement programming to funding rehabilitation or replacement of critical infrastructure that has reached the end of its useful life or has capacity constraints.

	Item	Budget FY 18-19	Est Expend FY 18-19		FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
Project Costs:	Construction	-	-		53,000	53,000	53,000	53,000	53,000	$ 265,000
		-	-		-	-	-	-	-	$ -
		-	-		-	-	-	-	-	$ -
		-	-		-	-	-	-	-	$ -
		-	-		-	-	-	-	-	$ -
			-		-	-	-	-	-	$ -
	Total	$ -	$ -		$ 53,000	$ 53,000	$ 53,000	$ 53,000	$ 53,000	$ 265,000
Funding Sources:	WR Capital	-	-		53,000	53,000	53,000	53,000	53,000	$ 265,000
					-	-	-	-	-	$ -
					-	-	-	-	-	$ -
					-	-	-	-	-	$ -
					-	-	-	-	-	$ -
	Total	$ -	$ -		$ 53,000	$ 53,000	$ 53,000	$ 53,000	$ 53,000	$ 265,000
Estimated O & M										

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RESOLUTIONS

TOWN OF
WINDSOR

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RESOLUTION NO. 3530-19

A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF WINDSOR ADOPTING THE CAPITAL IMPROVEMENT PROGRAM FOR FY 2019-2024

WHEREAS, the Town of Windsor prepared a five-year Capital Improvement Program, designed to serve as both a financial and project planning document for the Fiscal Years 2019-2024; and

WHEREAS, on May 28, 2019, pursuant to Government Code section 65402, the Planning Commission reviewed the proposed Capital Improvement Program and determined that all of the projects contained in said program are consistent with the Town of Windsor General Plan as to location, purpose and extent; and

WHEREAS, Town staff reviewed the proposed Capital Improvement Program under the California Environmental Quality Act (CEQA) and determined that adoption of the proposal is not a project for CEQA purposes, therefore no environmental review is required; and

WHEREAS, on May 15, 2019, the Town Council reviewed, accepted public comment and considered the Preliminary Fiscal Years 2019-2024 Capital Improvement Program attached and incorporated herein by reference.

NOW, THEREFORE BE IT RESOLVED that the Town Council of the Town of Windsor finds as follows:

1. The Fiscal Years 2019-2024 Capital Improvement Program is consistent with the Town of Windsor General Plan – 2040.

2. Adoption of the Capital Improvement Program is not subject to CEQA review; and

BE IF FURTHER RESOLVED that the Town Council of the Town of Windsor, also acting on behalf of the Town of Windsor Water District, hereby adopts the Town of Windsor Capital Improvement Program for Fiscal Years 2019-2024.

PASSED, APPROVED AND ADOPTED this 19th day of June 2019 by the following vote:

AYES:	**COUNCILMEMBERS LEMUS, SALMON, VICE MAYOR FUDGE AND MAYOR FOPPOLI**
NOES:	**NONE**
ABSENT:	**NONE**
ABSTAIN:	**COUNCILMEMBER OKREPKIE**

Dominic Foppoli

DOMINIC FOPPOLI, MAYOR

ATTEST:

Maria De La O

MARIA DE LA O, TOWN CLERK

RESOLUTION NO. 673-19

A RESOLUTION OF THE PLANNING COMMISSION OF THE TOWN OF WINDSOR FINDING THE PROPOSED FY 2019-2024 CAPITAL IMPROVEMENT PROGRAM IN CONFORMITY WITH THE TOWN OF WINDSOR 2040 GENERAL PLAN

WHEREAS, the Town of Windsor proposes to adopt the FY 2019-2024 Capital Improvement Program; and

WHEREAS, the Capital Improvement Program is designed to serve as both a financial and project planning document; and

WHEREAS, Government Code Section 65401 requires that the Planning Commission review all capital projects that will be planned, initiated or constructed during the ensuing fiscal years for conformity with the General Plan; and

WHEREAS, Government Code Section 65402 requires that real property acquisition or disposition, street vacation or abandonment, public building or structure construction be consistent with the general plan as to location, purpose and extent; and

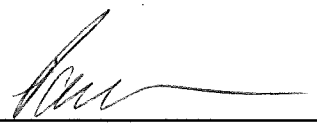
WHEREAS, the Preliminary Capital Improvement Program identifies various potential public projects, which are consistent with the Town of Windsor 2040 General Plan; and

WHEREAS, the Town of Windsor Proposed FY 2019-2024 Capital Improvement Program is not a project subject to review under the California Environmental Quality Act.

NOW THEREFORE, BE IT RESOLVED that the Planning Commission of the Town of Windsor reviewed the proposed FY 2019-24 Capital Improvement Program and finds the program conforms with the Town of Windsor 2040 General Plan.

PASSED, APPROVED and ADOPTED this 28th day of May 2019 by the following vote:

AYES:	**COMMISSIONER FRITZ/M, COMMISSIONER ZELIG/2ND, VICE CHAIR HUBERTS, CHAIR BERLANT**
NOES:	**NONE**
ABSTAIN:	**NONE**
ABSENT:	**COMMISSIONER ALBINI**



CHAIR