

Key Highlights for Goal #4  
Infrastructure  
& Capital Assets



**Community Infrastructure Department**



# Infrastructure Strategic Plan Goals



Project Name	Goals
Water and Wastewater Feasibility Study (Completed, need final approval) Approve by Core management Group and a follow up with Chief and Council. Study Recommend Municipal Type Agreement for a Water Connection to the City of North Bay, water and wastewater plan for all NFN	Improve core
Water Treatment Plant Upgrades PAR Approved – Tendering next week	Goals
First Nations Water & Wastewater Action Plan Ongoing Additional Water testing and system upgrades	expand capacity to
Yellek to Duchesnay Road Design Complete, Awarding the Contract to start construction. Meeting set in near future for final decision	serve
Draft Waste Management Plan In progress to proceed March 31, 2021	Debendaagziwaad
ISC MCA Waste Management Equipment Ongoing (New Bulldozer), Hazardous Waste Depot, New building and Hydro connection.	and meet
First Nations Land Management Resource Centre (FNLMRC) - Solid Waste Management Funding Program Ongoing and Solid Waste Management Plan development in Progress	community needs
Road Extension Phase 4 & 5 Yellek \$486,696.48 Clearing and Design Clearing with SFB starts Monday posted with Gen. Most information gathered for Design with Nic Liberty We will explore the Beach at the end of the new extension	Establish adequate
	emergency exits in
	all NFN
	communities

# Infrastructure Strategic Plan Goals



Project Name	Goals
Generator Installation (Administrative Building and School) Deferred to 2022-23	Improve Water & Wastewater
VLA Plant Replacement Signed TPA and starting Tender process for design and Project Management.	infrastructure and ensure all NFN
MTO 17 B Lower Overpass Phase 2 Utilizing Material for Duc-Yellek Rd – Highway 178B Entrance Constructed at no cost. 3000 Cubic Meters of material used for Road widen for Phase 2 Project. Phase 2 planned construction 2022-23	members have access to safe
Jocko Point Bridge Replacement, Condition Report ongoing. Looking for recommendation from Engineer for both temporary measures and a design for New Bridge. Submission to ISC will be necessary approximately from 1.5 TO 2 million.	drinking water
Beaucage Road Sub-division Planning to straighten out “S” Corner – Approaching Final Completion	Plan for long
Pow Wow Grounds Maintenance (Plans for this area need to be developed) Clean up done, Dangerous trees are removed.	term growth
Recreation Maintenance Beaches , Parks, and Playground Maintained Planning at Core Infrastructure Meetings	across NFN
Upgrade of Recreational Equipment - Chief and Council Approve the purchase of a new Zamboni for the GV Outdoor Rink	
Cemetery Maintenance & Columbarium Installation Pad to be installed and arrange Crane for delivery.	





# Infrastructure Projects Capital Plan Year Three



## Nipissing First Nation Capital Plan Study Update

20 year Capital Cost Summery

Phase 1 Year 1 to 5

### Water Supply and Distribution

Address THMs at Garden Village, watermain extension on Ted Commanda Drive New water plant for Duchesnay/Yellek, including watermain and connections 31 new wells, point-of entry treatment units in Meadowside/Mosquito Creek/VLA 21 new cisterns and individual treatment units for Beaucage

### Wastewater System Upgrades

18 service connections for Garden Village

Peatland treatment systems in Yellek/Duchesnay, sewer main and sanitary services Replace 8, construct 1 new septic system in Meadowside/Mosquito Creek/VLA Replace 5, construct 1 new septic system in Beaucage

### Roads and Drainage Improvements Residential Development

37 new lots in Yellek,

57 new homes (37 in Yellek, 18 in Garden Village, 2 elsewhere) Community Facilities (Replace Duchesnay Daycare, expand seniors housing) Recreational Facilities (Gymnasium, ice rink, sports field, beach area, trails) Commercial Park (Phase II of Bineshi

Commercial Park) Telecommunications

Radon Testing (for 120 homes)

**TOTAL PHASE I CAPITAL COSTS** Estimated at \$83,590,495

# Garden Village Water Plant Upgrades



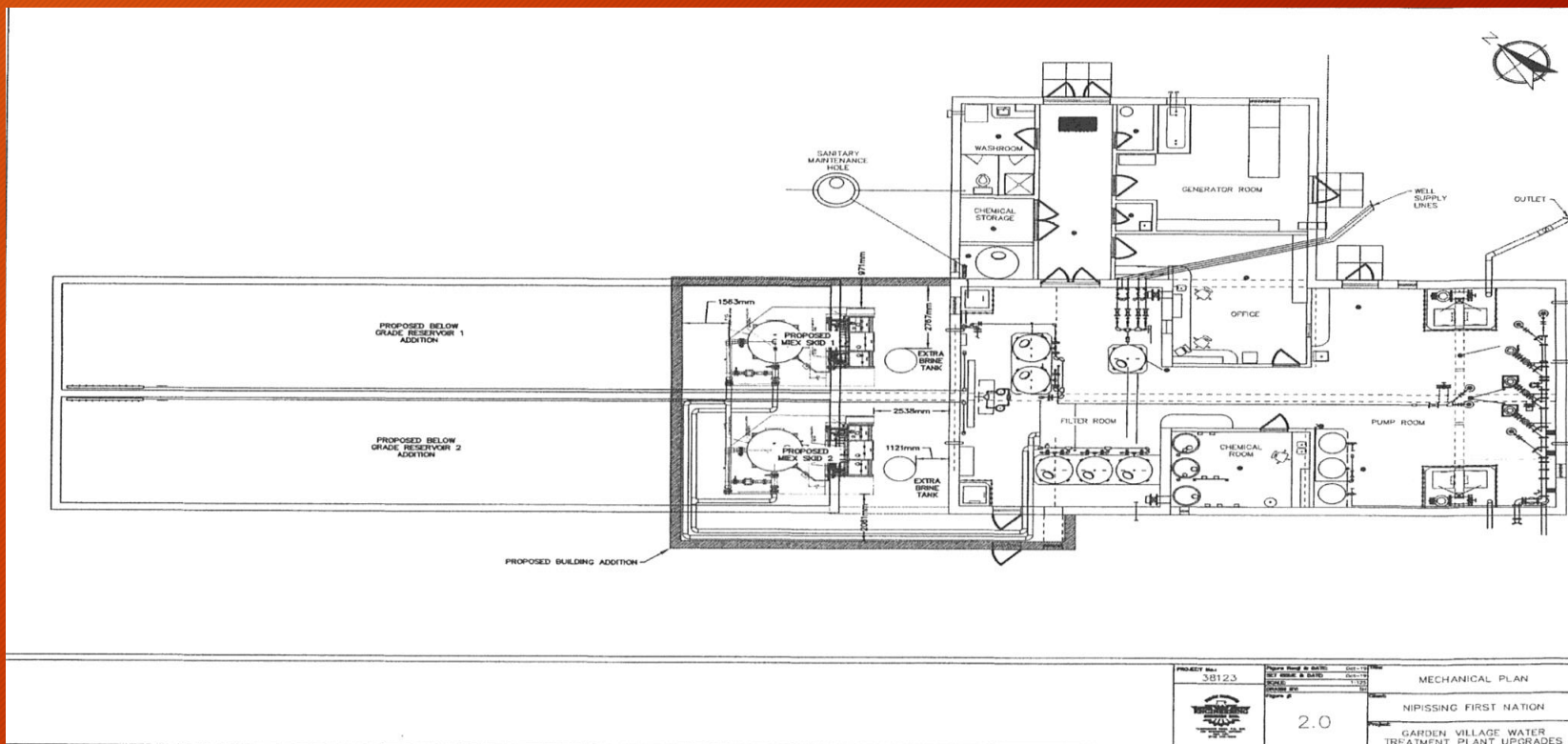
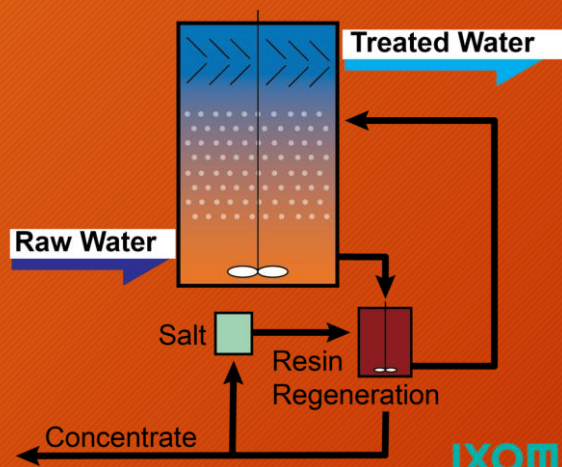
## Trihalomethanes (THM) removal using MIEX® MAGNETIC ION EXCHANGE SYSTEMS

MIEX® advanced ion exchange treatment systems are sustainable solutions to improve disinfection that allow for compliance with Disinfection By-Products Regulation.

MIEX treatment systems can be designed to remove:

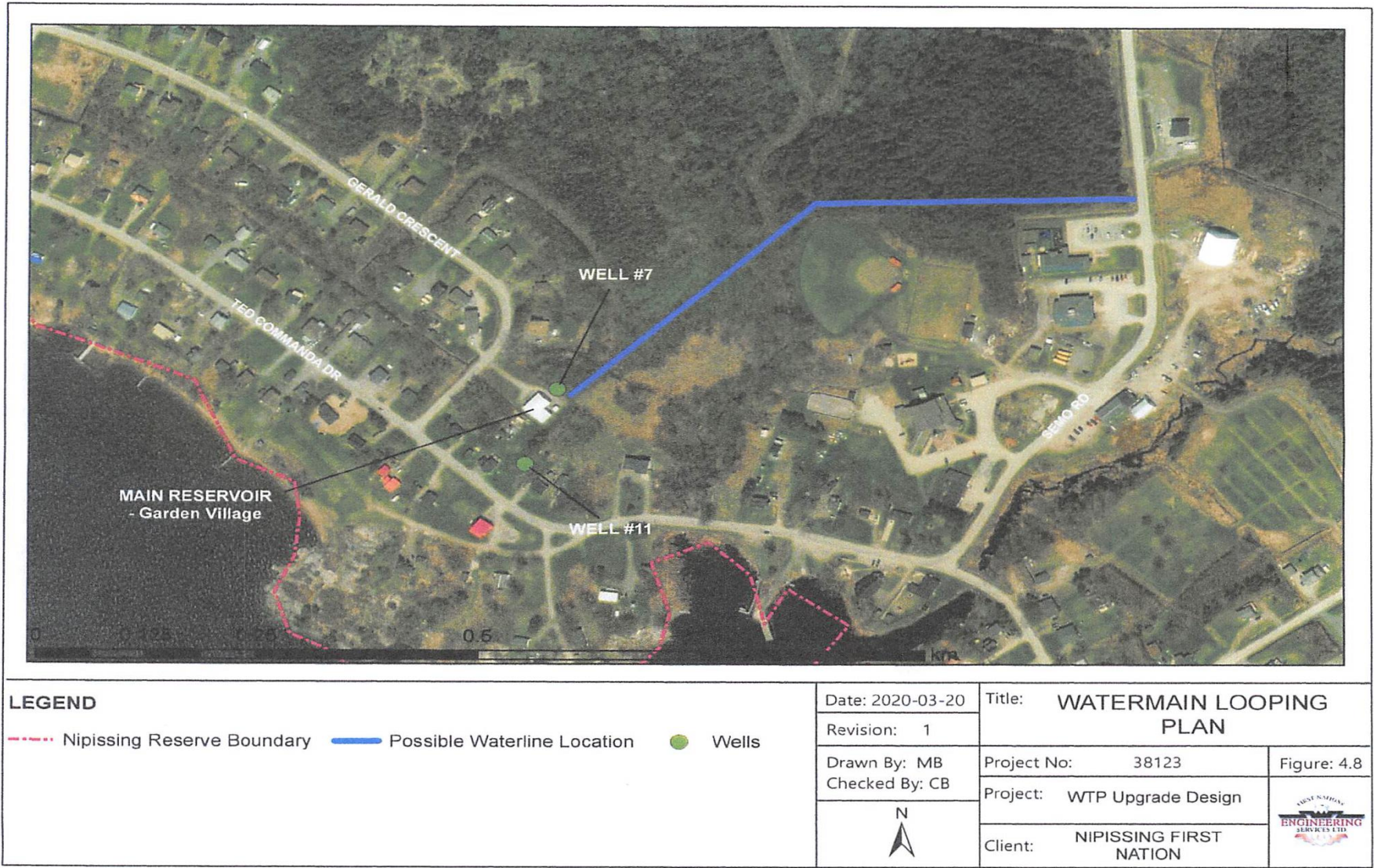
- ▶ Dissolved Organic Carbon
- ▶ Sulfate
- ▶ Bromide

### The MIEX Process





# Garden Village Water Plant Upgrades - Main Water Loop

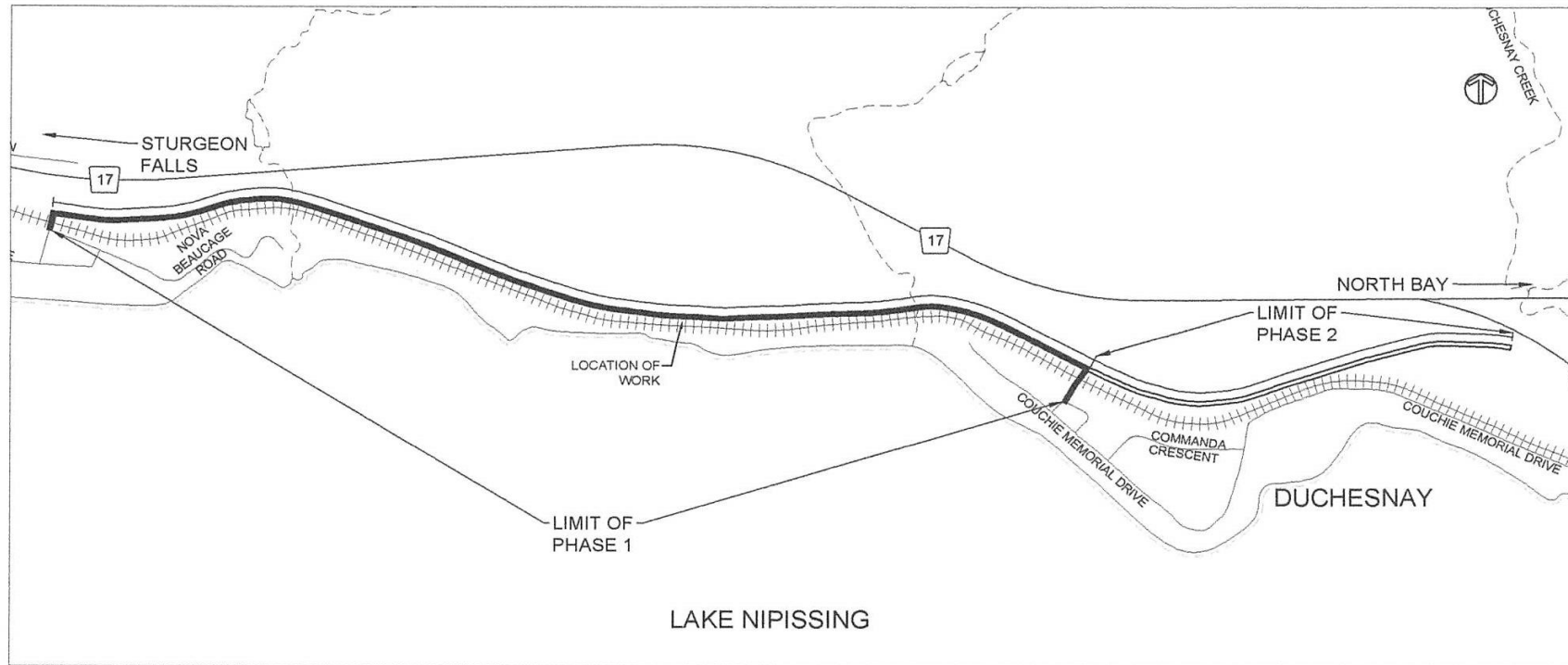




# Yellek to Duchesnay Road Project



## NIPISSING FIRST NATION YELLEK TO DUCHESNAY ROAD DESIGN + CONSTRUCTION



KEY PLAN

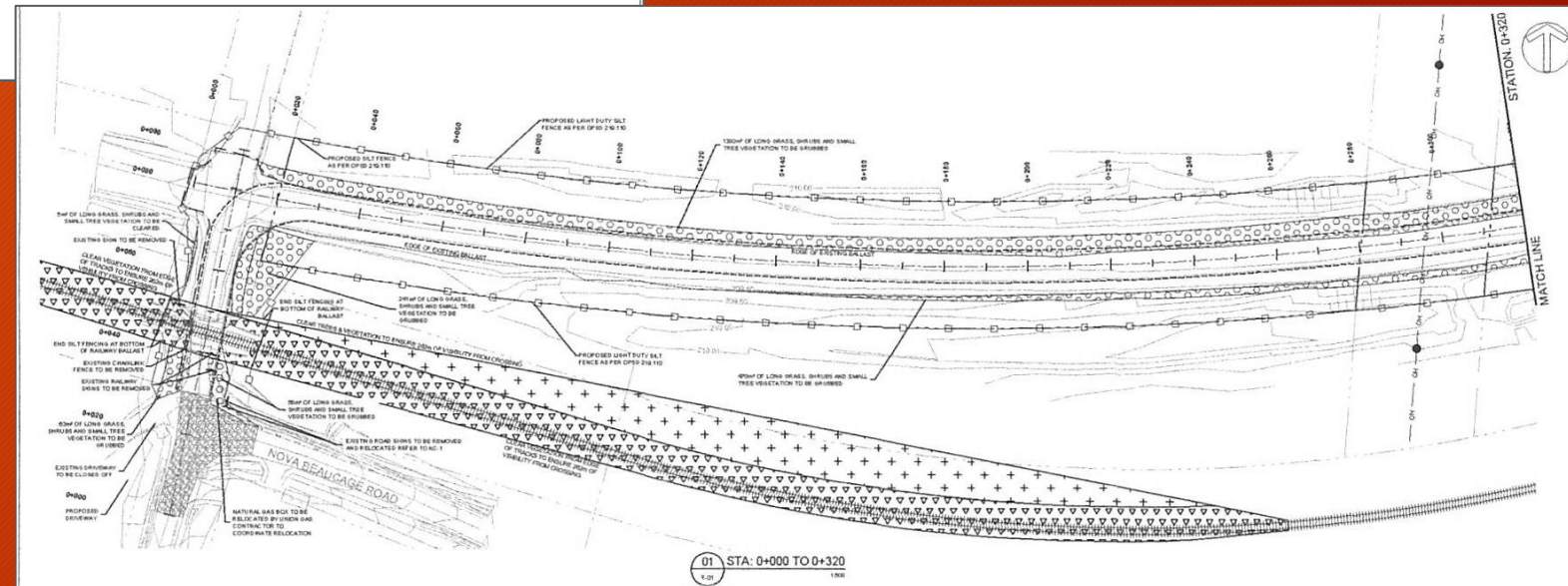
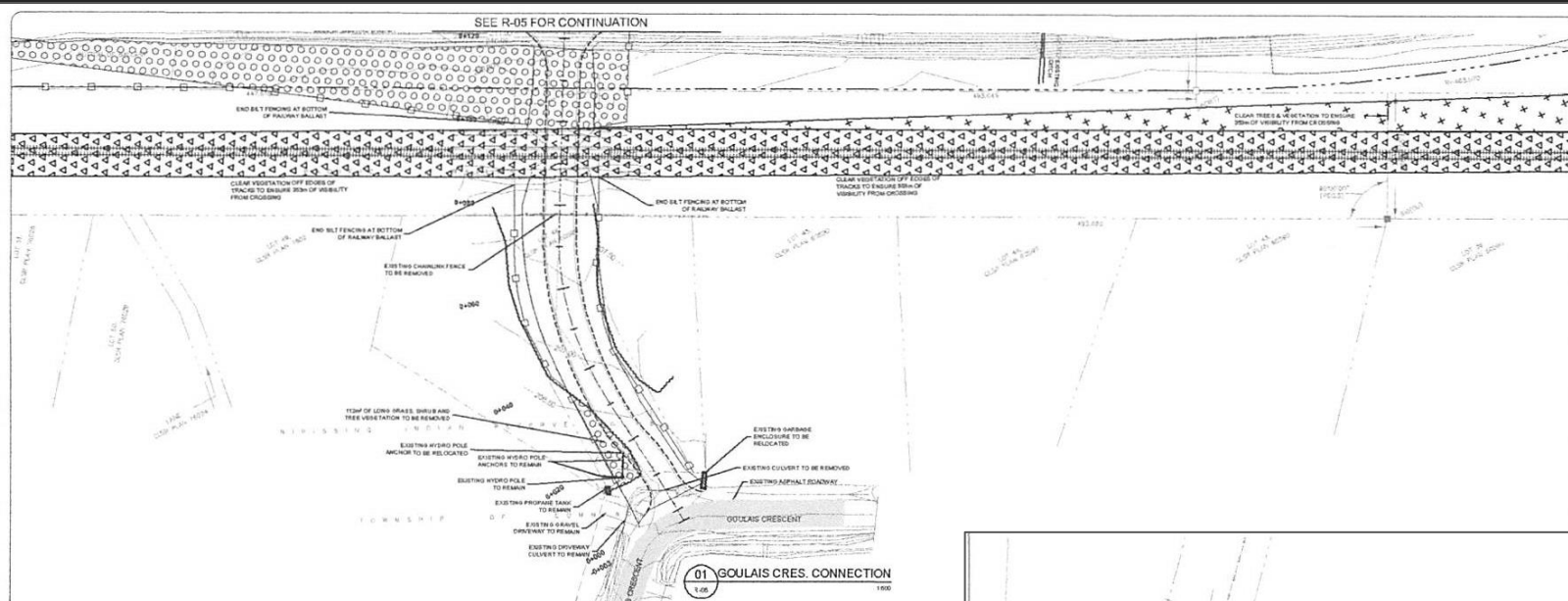


ISSUED FOR COORDINATION  
CONTRACT #####  
EXP PROJECT No. NTB-5261-00

# Yellek to Duchesnay Road Project – Phase 1



## Phase 1 Entrances

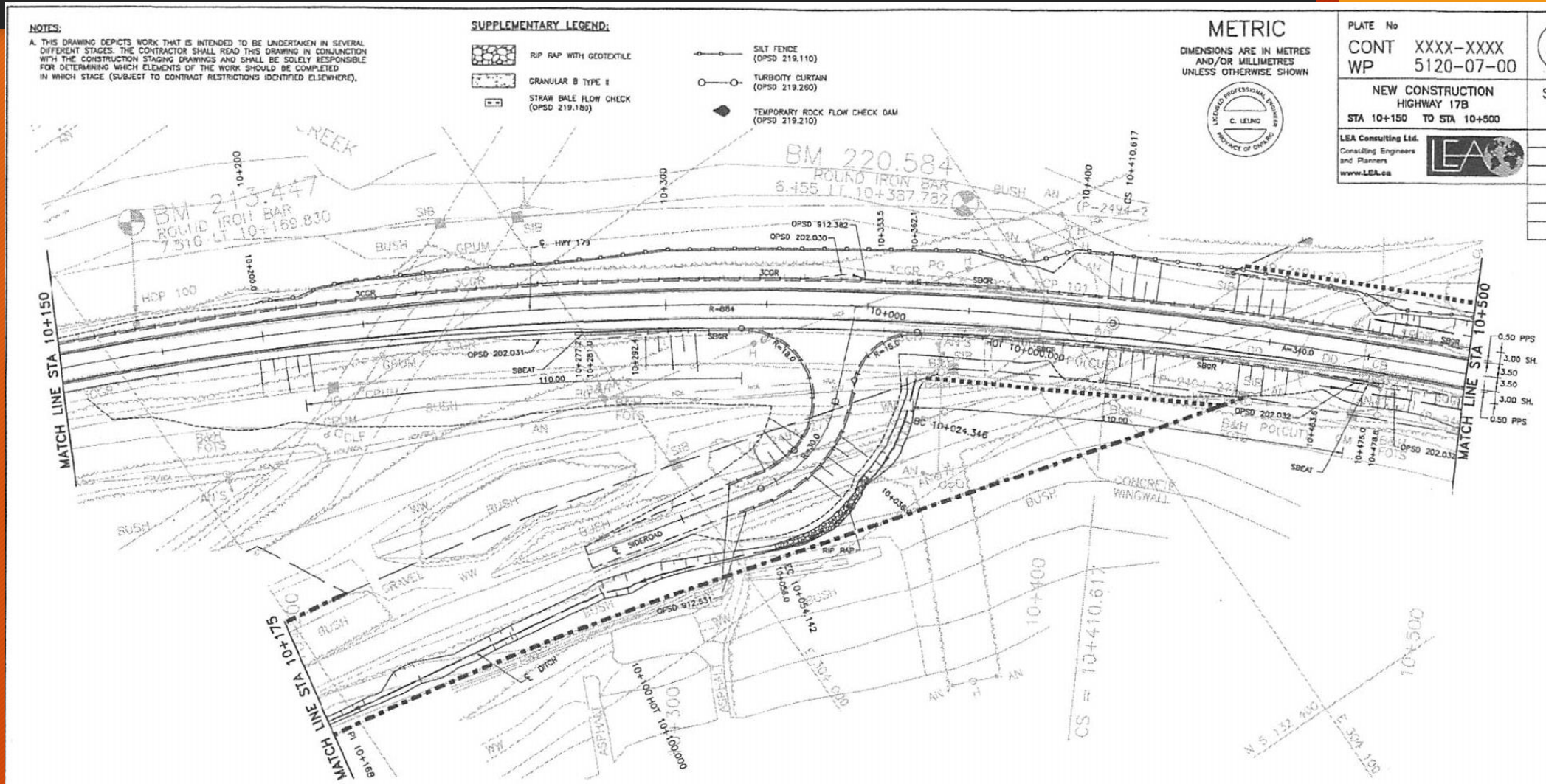




# Yellek to Duchesnay Road Project – Phase 2



Phase 2  
Entrances  
Supplied by  
the MTO





# Yellek Road Extension Project 2021-2022



This year we have almost completed the clearing, and contracted band member Nick Liberty to do the design.

We will have the Lands Department fly the drone over here for the elevations for road design and drainage ditching. There is a possibility to reach the beach on the west end for future Public Beach

