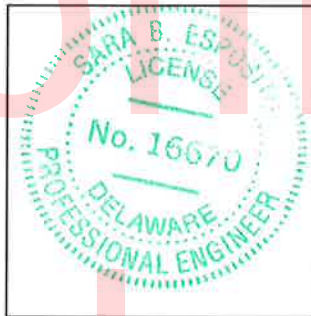


THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
DIVISION OF MAINTENANCE AND OPERATIONS
PLANS AND SPECIFICATIONS FOR
DOT1719-SANDFILTER_MAINT
SAND FILTER MAINTENANCE CONTRACT, FY 2018




RECOMMENDED:


NPDES Engineer

01-08-18
Date



APPROVED:


North District Engineer

1/17/18
Date

TABLE OF CONTENTS

1. CONTRACT DESCRIPTION	PAGE 2
2. GENERAL CONTRACT PLAN NOTES	PAGE 3-4
3. LOCATION MAP	PAGE 5-6
4. TYPICAL SAND FILTER DETAILS	PAGE 7-9
5. LOCATION 1 DETAILS	PAGE 10
6. LOCATION 2 DETAILS	PAGE 11
7. LOCATION 3 DETAILS	PAGE 12

ATTACHMENTS:

- A. LANCASTER PIKE SAND FILTER 2018 MAINTENANCE PLAN
- B. KENNETT PIKE SAND FILTER 2018 MAINTENANCE PLAN
- C. 905501 SAND FILTER CLEANING SPECIAL PROVISION
- D. 910501 MAINTENANCE OF EXISTING BMP SPECIAL PROVISION

CONTRACT DESCRIPTION

THIS CONTRACT IS INTENDED TO RESTORE EXISTING SAND FILTERS AND A STORMWATER SEDIMENT FOREBAY TO THEIR ORIGINAL OPERATING CONDITIONS. THE IMPROVEMENTS CONSISTS OF FURNISHING ALL MATERIALS, SAND FILTER AND SEDIMENT FOREBAY MAINTENACE AND OTHER INCIDENTAL CONSTRUCTION IN ACCORDANCE WITH THE LOCATIONS, NOTES AND DETAILS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.

THE WORK SHALL INCLUDE BUT NOT BE LIMITED TO MAINTENANCE OF TRAFFIC, AS REQUIRED PER LOCATION, REMOVAL OF DEBRIS, TRASH AND SEDIMENT AND DEWATERING OF STORMWATER BMPS. SPECIFIC LOCATION SHEETS AND DETAILS CAN BE FOUND WITH THIS PACKAGE.

THE CONTRACT TIME FOR THIS PROJECT WILL BE 60 DAYS FROM THE DATE SPECIFIED IN THE NOTICE TO PROCEED. LIQUIDATED DAMAGES WILL BE ASSESSED AFTER THIS TIME EXPIRES IF THESE LOCATIONS ARE NOT SUBSTANTIALLY COMPLETE.

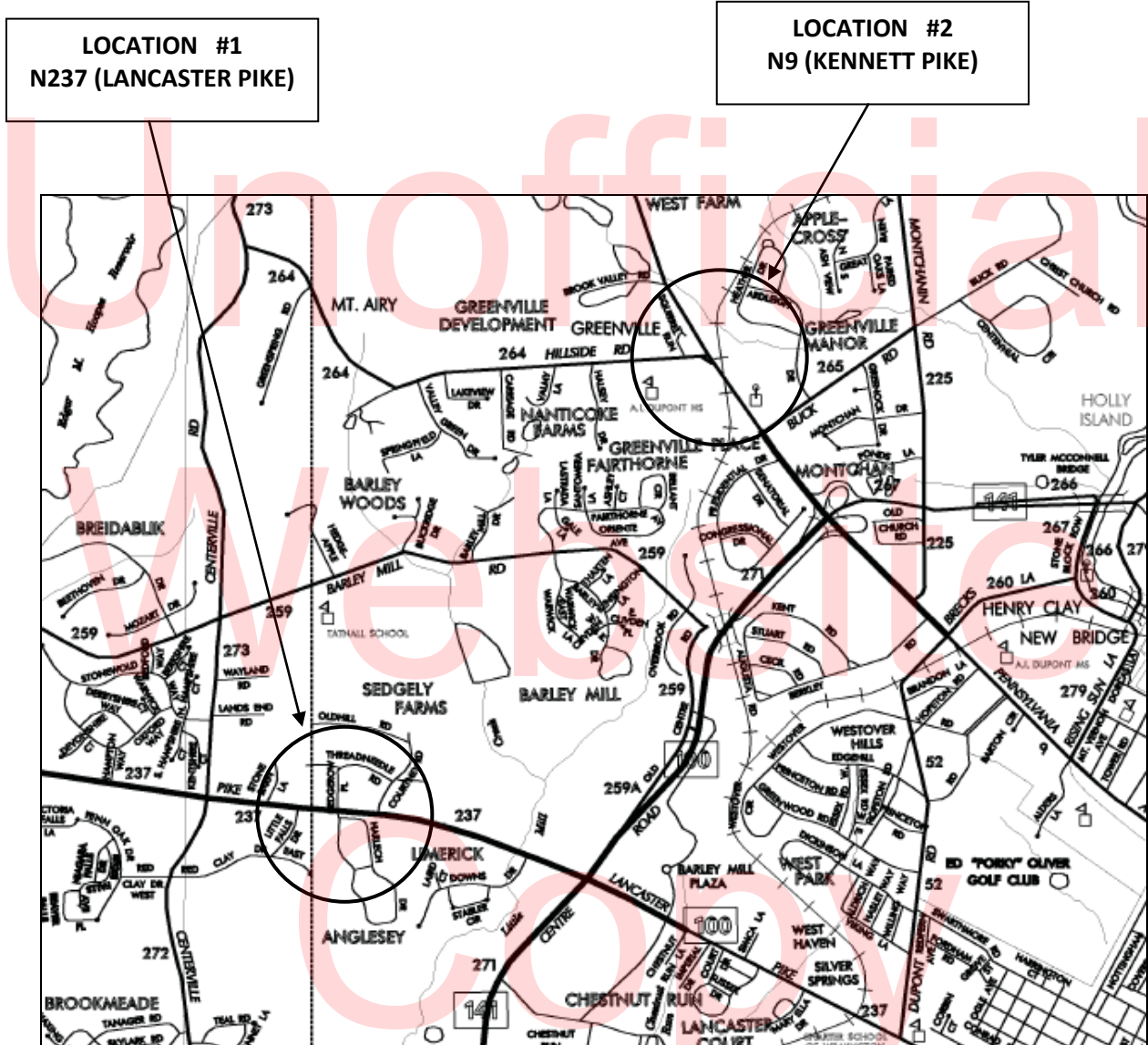
GENERAL CONTRACT PLAN NOTES

1. CONSTRUCTION OF THIS CONTRACT SHALL CONFORM TO DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED AUGUST, 2016 AS AMENDED BY THE SUPPLEMENTAL SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THESE PLANS. VALUES USED IN THIS CONTRACT ARE PRESENTED EXCLUSIVELY IN U.S. CUSTOMARY UNITS.
2. LOCATIONS OF WORK:
LOCATION 1: SR 48 - LANCASTER PIKE, EAST OF CENTERVILLE ROAD TO SR 141.
LOCATION 2: SR 52 - KENNETT PIKE, SOUTH OF BROOK VALLEY ROAD TO BRIARS LANE.
LOCATION 3: SR 1 – ANCHORAGE CANAL, BEGINNING OF THE ANCHORAGE CANAL ADJACENT TO ANCHORAGE DRIVE IN SOUTH BETHANY
3. ALL WORK ADDED SHALL BE PERFORMED BY CONTRACT UNIT PRICES. IN THE CASE WHERE CONTRACT UNIT PRICES ARE NOT AVAILABLE THE PRICES ARE TO BE NEGOTIATED OR PERFORMED BY FORCE ACCOUNT PROCEDURES.
4. THE CONTRACTOR IS REMINDED THAT SECTION 105.07 OF THE STANDARD SPECIFICATIONS REQUIRES THE GENERAL CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT OR FOREMAN ON THE PROJECT AT ALL TIMES.
5. THE CONTRACTOR IS REMINDED THAT SECTION 108.04 C OF THE STANDARD SPECIFICATIONS REQUIRES “A PROPOSED ACTIVITY SCHEDULE” FOR THE FOLLOWING TWO-WEEK PERIOD. THIS ACTIVITY SCHEDULE SHOULD REFLECT SPECIFIC DETAILS RELATED TO ACTUAL CONSTRUCTION ACTIVITIES THAT THE CONTRACTOR PLANS TO HAVE IN PROGRESS DURING THIS PERIOD. THIS ACTIVITY SCHEDULE IS TO BE SUBMITTED TO THE INSPECTOR NO LATER THAN NOON OF EACH FRIDAY. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.
6. STOCKPILING OF EXCAVATED MATERIAL WILL NOT BE ALLOWED. THE CONTRACTOR SHALL PROCURE DISPOSAL SITES. SUCH DISPOSAL SITES SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO UTILIZATION BY THE CONTRACTOR. ALL PERMITS SUCH AS THOSE REQUIRED BY THE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL (DNREC) AND THE U.S. ARMY CORPS OF ENGINEERS SHALL BE MET BY THE CONTRACTOR WHEN PREPARING AND UTILIZING OFF-SITE DISPOSAL AREAS.
7. THERE ARE NO ENVIRONMENTAL PERMITS ASSOCIATED WITH THIS PROJECT. AS SUCH, AN ENVIRONMENTAL COMPLIANCE SHEET WAS NOT PREPARED.

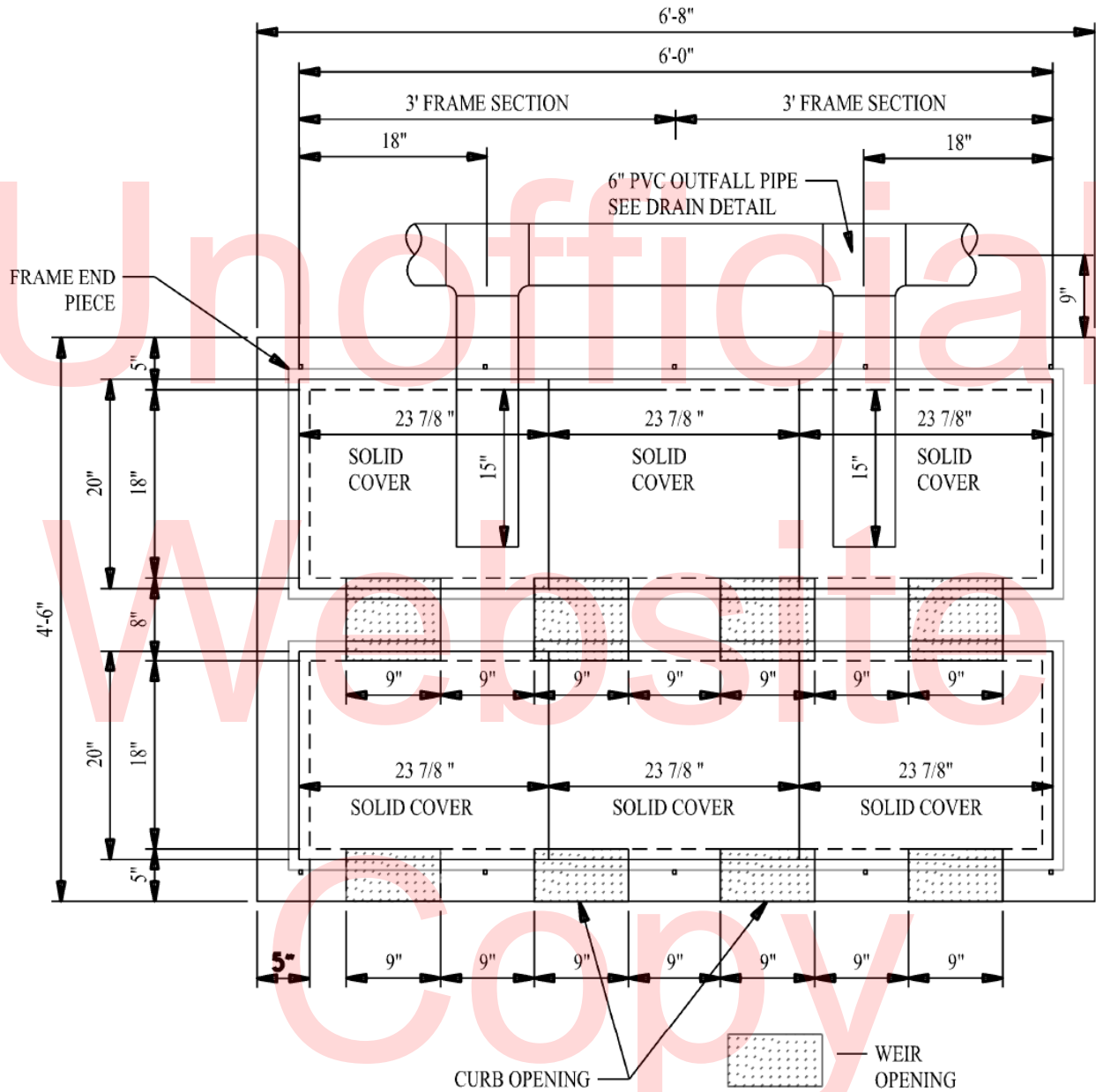
8. ALL WORK ON COASTAL HIGHWAY SHALL BE COMPLETED BY MAY 15, 2018.
9. ALL WORK SHALL BE PERFORMED BETWEEN THE HOURS OF 9AM AND 3PM.
10. ALL DRUMS USED ON THIS PROJECT SHALL CONSIST OF FLOURESCENT ORANGE AND WHITE PRISMATIC RETROREFLECTIVE SHEETING. LIGHTS SHALL NOT BE USED ON DRUMS.

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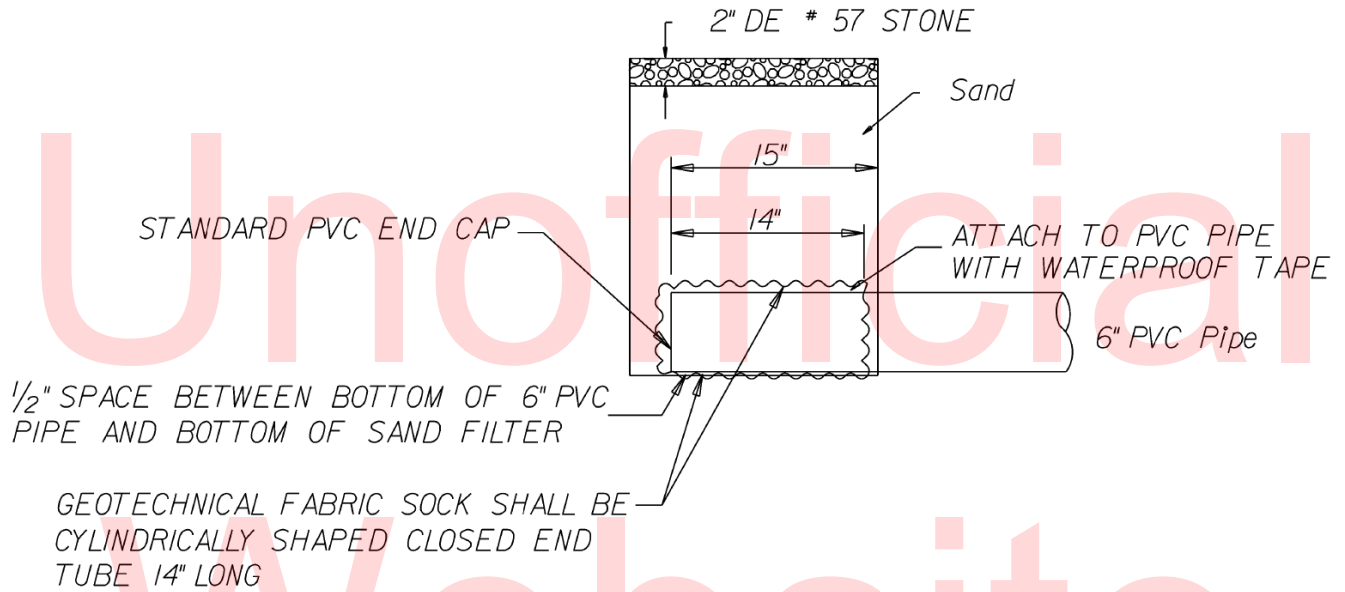
LOCATION MAP



TYPICAL PLAN VIEW FOR SAND FILTERS



TYPICAL DRAIN DETAIL FOR SAND FILTERS



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LOCATION 1 DETAILS

SR 48 - LANCASTER PIKE – EAST OF CENTERVILLE ROAD TO SR 141

COMMENTS: Maintenance of the sediment and sand chambers for 2 BMPs paid under item 905501 - SAND FILTER CLEANING. Maintenance of Traffic to follow Typical Application-3A. Reference the Lancaster Pike Sand Filter 2018 Maintenance Plan attachment for BMP locations.

BMPs TO BE MAINTENED	# OF CHAMBERS (EACH 6 FT)
59	2
64	5

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Website

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LOCATION 2 DETAILS

SR 52 - KENNETT PIKE, SOUTH OF BROOK VALLEY ROAD TO BRIARS LANE.

COMMENTS: Maintenance of the sediment and sand chambers for 32 BMPs paid under item 905501 - SAND FILTER CLEANING. Maintenance of Traffic to follow Typical Application-3 and Typical Application-33. Reference the Kennett Pike Sand Filter 2018 Maintenance Plan attachment for BMP locations.

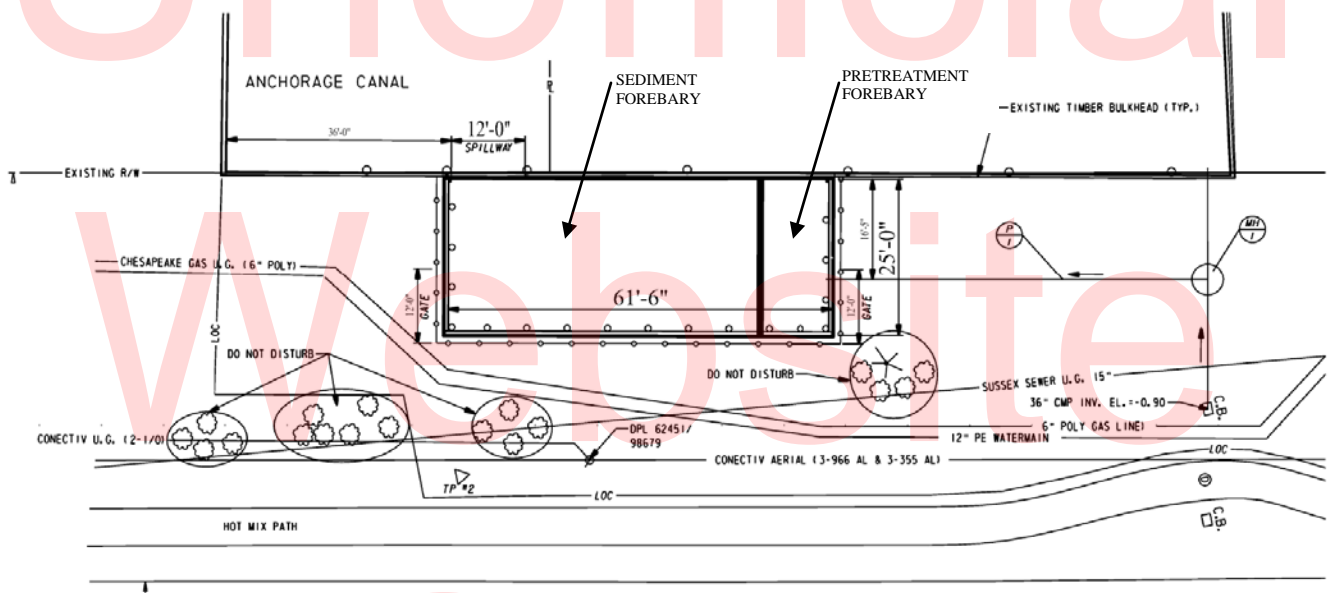
BMPs TO BE MAINTENED	# OF CHAMBERS (EACH 6 FT)
364	1
365	1
368	1
370	1
372	1
375	3
379	1
381	1
382	1
383	2
384	2
385	1
386	2
387	1
388	1
389	1
390	1
391	1
392	1
393	1
394	1
395	1
396	1
397	1
421	1
423	1
424	4
425	1
426	1
427	1
428	1
430	2

LOCATION 3 DETAILS

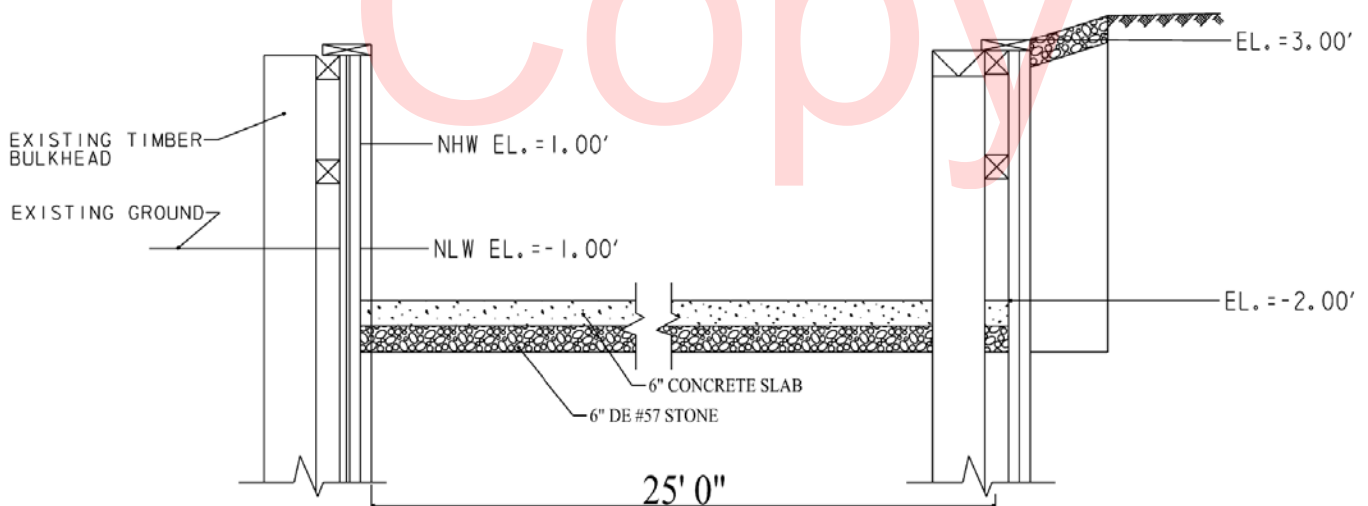
SR 1 – ANCHORAGE CANAL, BEGINNING OF THE ANCHORAGE CANAL ADJACENT TO ANCHORAGE DRIVE IN SOUTH BETHANY

COMMENTS: Maintenance of BMP 126 (sediment forebay) to be paid under item 910501 – MAINTENANCE OF EXISTING STORMWATER BMP. Both the Pretreatment Forebay and Sediment Forebay to be cleaned out. Depth of sediment ranges between 0.30 ft and 1.7 ft, with average sediment accumulation at 0.66 ft. Maintenance of Traffic to follow Typical Application-3A.

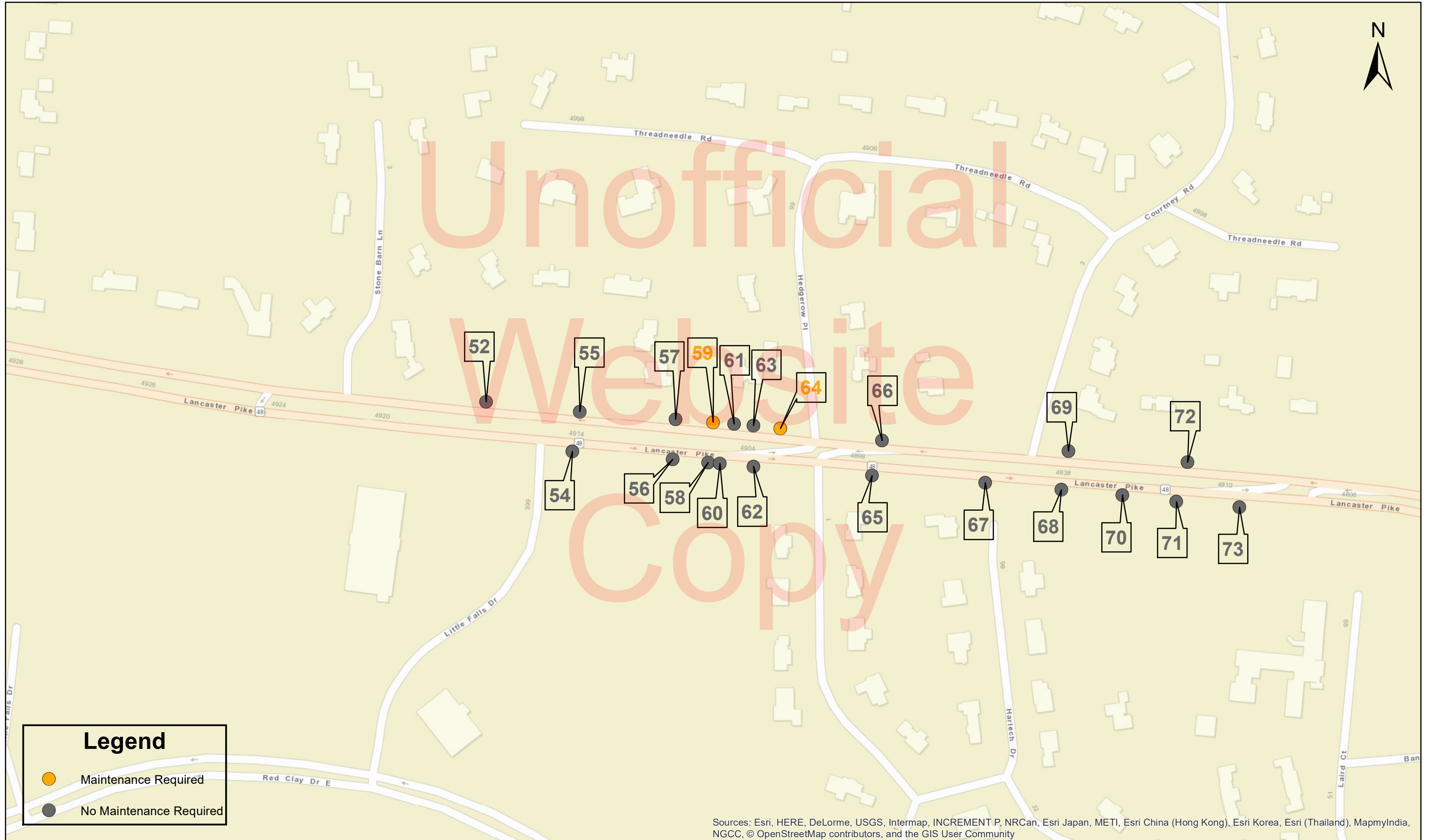
PLAN VIEW OF SOUTH BETHANY SEDIMENT FOREBAY



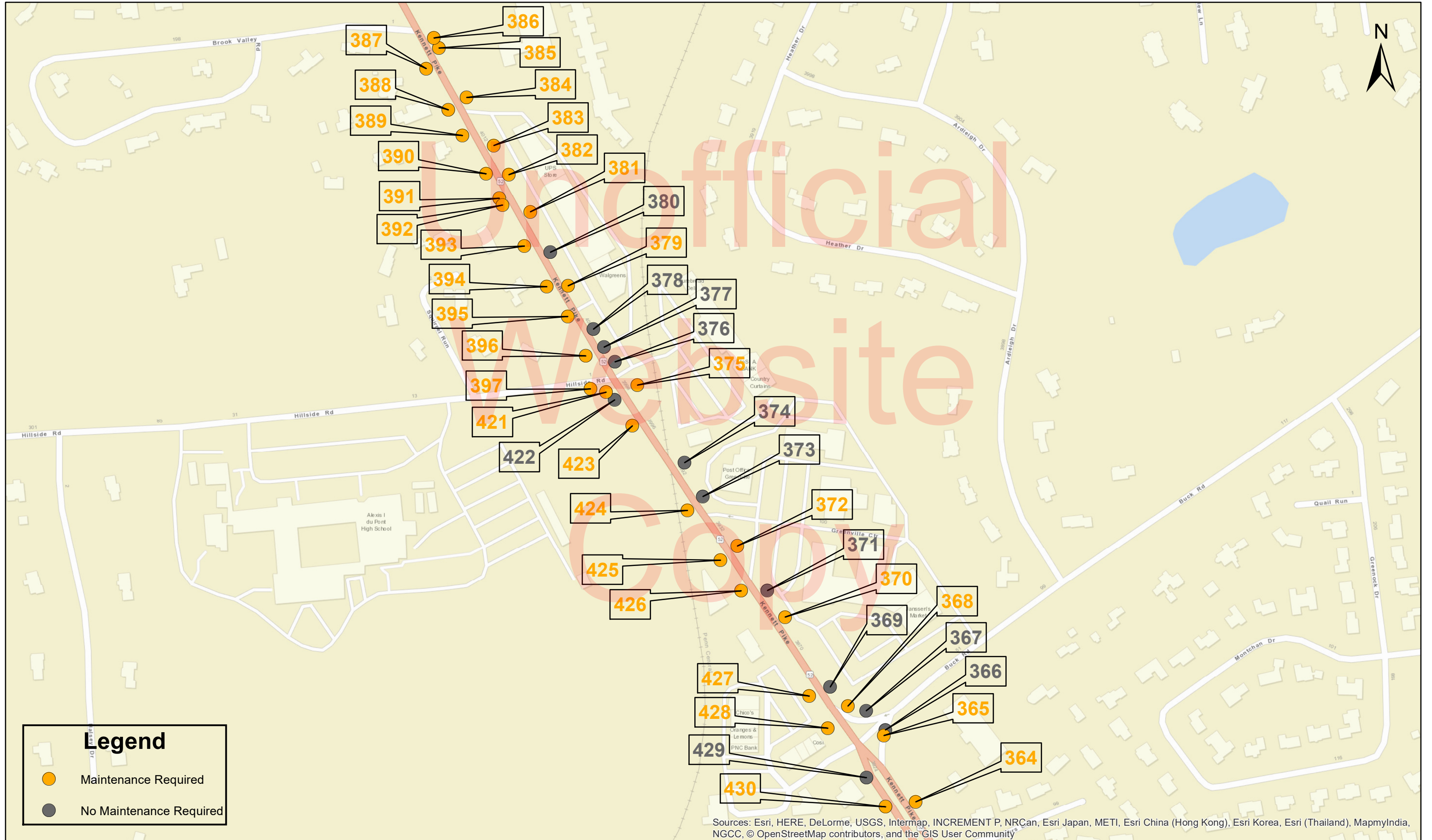
PROFILE VIEW OF SOUTH BETHANY FOREBAY



Lancaster Pike Sand Filters 2018 Maintenance



Kennett Pike Sand Filters 2018 Maintenance



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