COUNTY OF SUFFOLK

STEVEN BELLONE
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF PUBLIC WORKS

GILBERT ANDERSON, P.E.
COMMISSIONER

PHILIP A. BERDOLT
DEPUTY COMMISSIONER

MEMORANDUM

TO: Gloria Russo, Chairperson
Council on Environmental Quality

FROM: Ben Wright, P.E., Principal Civil Engineer

SUBJECT: **SD #5 – Strathmore Huntington, CP 8115**

DATE: April 25, 2012

Attached is a short EAF for the referenced sewer district. The sewer district has five remote pumping stations each with a varying length of force main and approximately 15 miles of sanitary sewers. The facilities were constructed in the mid 1960's and although modifications and upgrades have been performed in the past, there is the need to be proactive with respect to this sewage conveyance infrastructure. Not all locations have been identified with respect to the need for improvement but many of the areas have sewer pipe which is subject to corrosion and failure. All work would be confined to replacement in-kind of the facilities including within rights-of-way or easements. It is noted that some difficult areas will be encountered where residents may have encroached on the LIPA right-of-way or possibly over our force main. The adopted capital budget includes $1.75 million to address these problems. The infrastructure includes the pumping stations, force mains, various areas of gravity sewers including their manholes, and other appurtenances. A map of the district boundaries, Pump Station No. 4, and pictures of Pump Station No. 4 force main are attached.

BW:ni
Attachment
cc: John Donovan, P.E., Chief Engineer
Boris Rukovets, P.E., Special Projects Supervisor
Ron Warren, Director of Operation & Maintenance
Michael Mule, Environmental Projects Coordinator
bw4-25-12 sd5 CEQ memo to GRusso

Project ID:

SUFFOLK COUNTY
SHORT ENVIRONMENTAL ASSESSMENT FORM

For UNLISTED ACTIONS Only
6 NYCRR Part 617.20
STATE ENVIRONMENTAL QUALITY REVIEW

Part I-PROJECT INFORMATION (to be completed by Applicant or Project Sponsor)

1. APPLICANT /SPONSOR **Department of Public Works**	2. PROJECT NAME **CP 8115 – SD 5 – Strathmore Huntington - Improvements**
3. PROJECT LOCATION Municipality **South Huntington**	County **Suffolk**
4. PRECISE LOCATION (Street address and road intersections, prominent landmarks, etc., or provide map) **Various locations of the sewage conveyance system as indicated on the attached sewer district map**	
5. IS PROPOSED ACTION: ☐ New ☐ Expansion X Modification /alteration	
6. DESCRIBE PROJECT BRIEFLY: **Replace portions of the sewage conveyance system prior to emergency response or failure**	
7. AMOUNT OF LAND AFFECTED: Initially **N/A** acres Ultimately **N/A** acres	
8. WILL PROPOSED ACTION COMPLY WITH EXISTING ZONING OR OTHER LAND USE RESTRICTIONS? X Yes ☐ No If No, describe briefly	
9. WHAT IS PRESENT LAND US IN VICINITY OF PROJECT? ☐ Residential ☐ Industrial ☐ Commercial ☐ Agriculture ☐ Park/Forest/Open Space X Other Describe:	
10. DOES ACTION INVOLVE A PERMIT APPROVAL, OR FUNDING, NOW OR ULTIMATELY FROM ANY OTHER GOVERNMENTAL AGENCY (FEDERAL, STATE OR LOCAL)? ☐ Yes X No If yes, list agency(s) and permit/approvals	
11. DOES ANY ASPECT OF THE ACTION HAVE A CURRENTLY VALID PERMIT OR APPROVAL? X Yes ☐ No If yes, list agency name and permit/approval **NYSDEC – SPDES Permit**	
12. AS A RESULT OF PROPOSED ACTION WILL EXISTING PERMIT/APPROVAL REQUIRE MODIFICATION? ☐ Yes X No	
I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE TO THE BEST OF MY KNOWLEDGE Applicant/sponsor Name: **Ben Wright** Date: **4/25/12** Signature: Benwright	

If the action is in the Coastal Area, and you are a state agency, complete the Coastal Assessment Form before proceeding with this assessment

Continue to Part II

PART II - ENVIRONMENTAL ASSESSMENT (To be completed by Agency)

A. DOES ACTION EXCEED ANY TYPE I THRESHOLD IN 6 NYCRR, PART 617.4? If yes, coordinate the review process and use the FULL EAF.
☐ yes X No Comment: **replacement in-kind**

B. WILL ACTION RECEIVE COORDINATED REVIEW AS PROVIDED FOR UNLISTED ACTIONS IN 6 NYCRR, PART 617.6? If No, a negative declaration may be superseded by another involved agency.
☐ yes X No

C. COULD ACTION RESULT IN ANY ADVERSE EFFECTS ASSOCIATED WITH THE FOLLOWING: (Answers may be handwritten, if legible)

C1. Existing air quality, surface or groundwater quality or quantity, noise levels, existing traffic patterns, solid waste production or disposal, potential or erosion, drainage or flooding problems?
Explain briefly: **Short term construction noise and traffic maintenance**

C2. Aesthetic, agricultural, archaeological, historic, or other natural or cultural resources; or community or neighborhood character?
Explain briefly: **no**

C3. Vegetation or fauna, fish, shellfish or wildlife species, significant habitats, or threatened or endangered species?
Explain briefly: **no**

C4. A community's existing plans or goals as officially adopted, or a change in use or intensity of use of land or other natural resources?
Explain briefly: **no**

C5. Growth, subsequent development, or related activities likely to be induced by the proposed action?
Explain briefly: **no**

C6. Long term, short term, cumulative, or other effects not identified in C1-C5?
Explain briefly: **no**

C7. Other impacts (including changes in use of either quantity or type of energy)?
Explain briefly: **no**

D. WILL THE PROJECT HAVE AN IMPACT ON THE ENVIRONMENTAL CHARACTERISTICS THAT CAUSED THE ESTABLISHMENT OF A CEA?
☐ yes X No If Yes, explain briefly:

E. IS THERE, OR IS THERE LIKELY TO BE, CONTROVERSY RELATED TO POTENTIAL ADVERSE ENVIRONMENTAL IMPACTS?
☐ yes X No If Yes, explain briefly:

PART III - DETERMINATION OF SIGNIFICANCE (To be completed by Agency)

INSTRUCTIONS: For each adverse effect identified above, determine whether it is substantial, large, important or otherwise significant. Each effect should be assessed in connection with its (a) setting (i.e. urban or rural); (b) probability of occurring; (c) duration; (d) irreversibility; (e) geographic scope; and (f) magnitude. If necessary, add attachments or reference supporting materials. Ensure that explanations contain sufficient detail to show that all relevant adverse impacts have been identified and adequately addressed.

☐ Check this box if you have identified one or more potentially large or significant adverse impacts which **MAY** occur. Then proceed directly to the **FULL EAF** and/or prepare a positive declaration.

☐ Check this box if you have determined, based on the information and analysis above and any supporting documentation, that the proposed action **WILL NOT** result in any significant adverse environmental impacts **AND** provide on attachments as necessary, the reasons supporting this determination:

Name of Lead Agency

Print or Type Name of Responsible Officer in Lead Agency

Title of Responsible Officer

Signature of Responsible Officer in Lead Agency

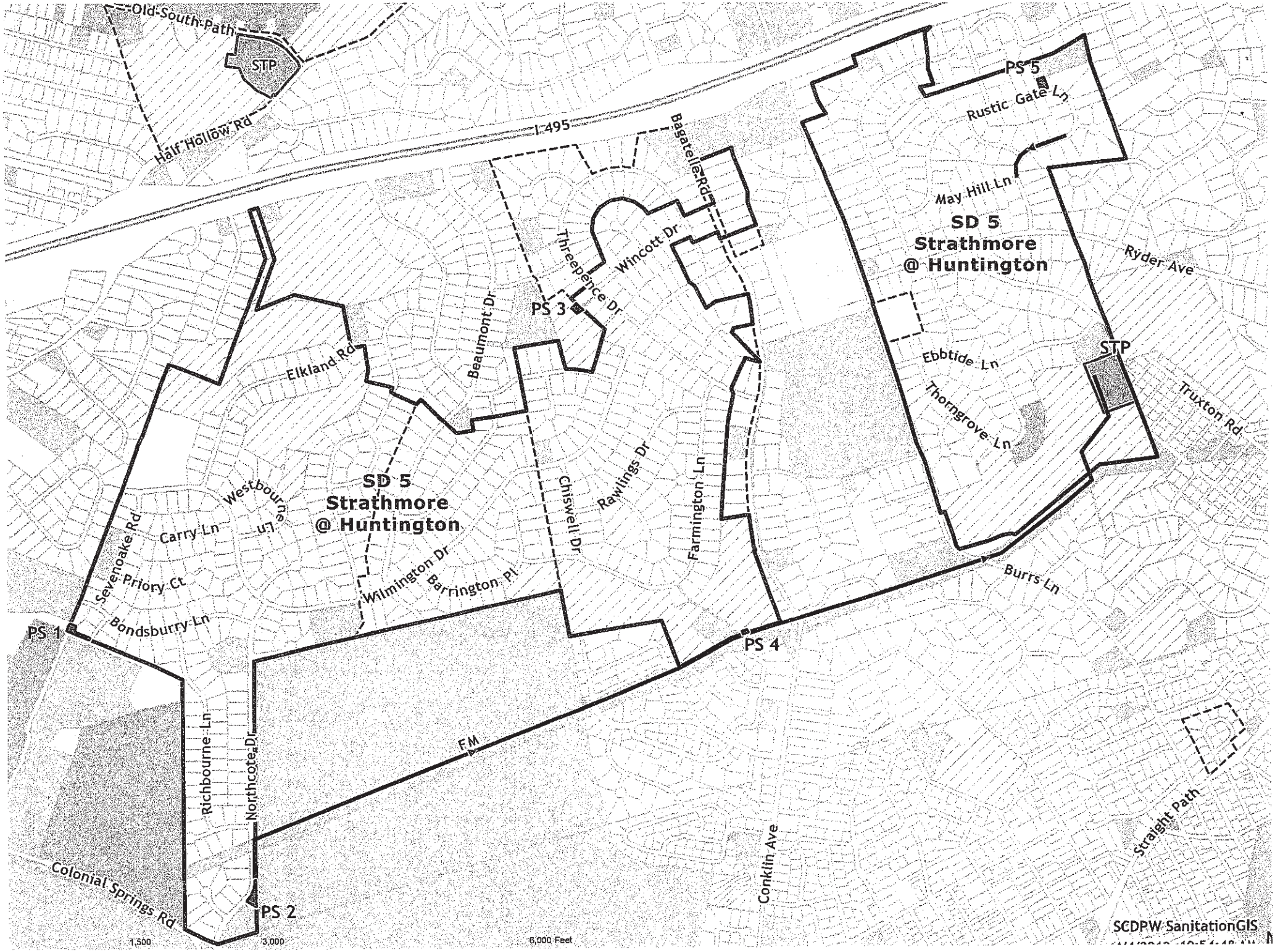
Signature of Preparer (If different from responsible officer)

Date

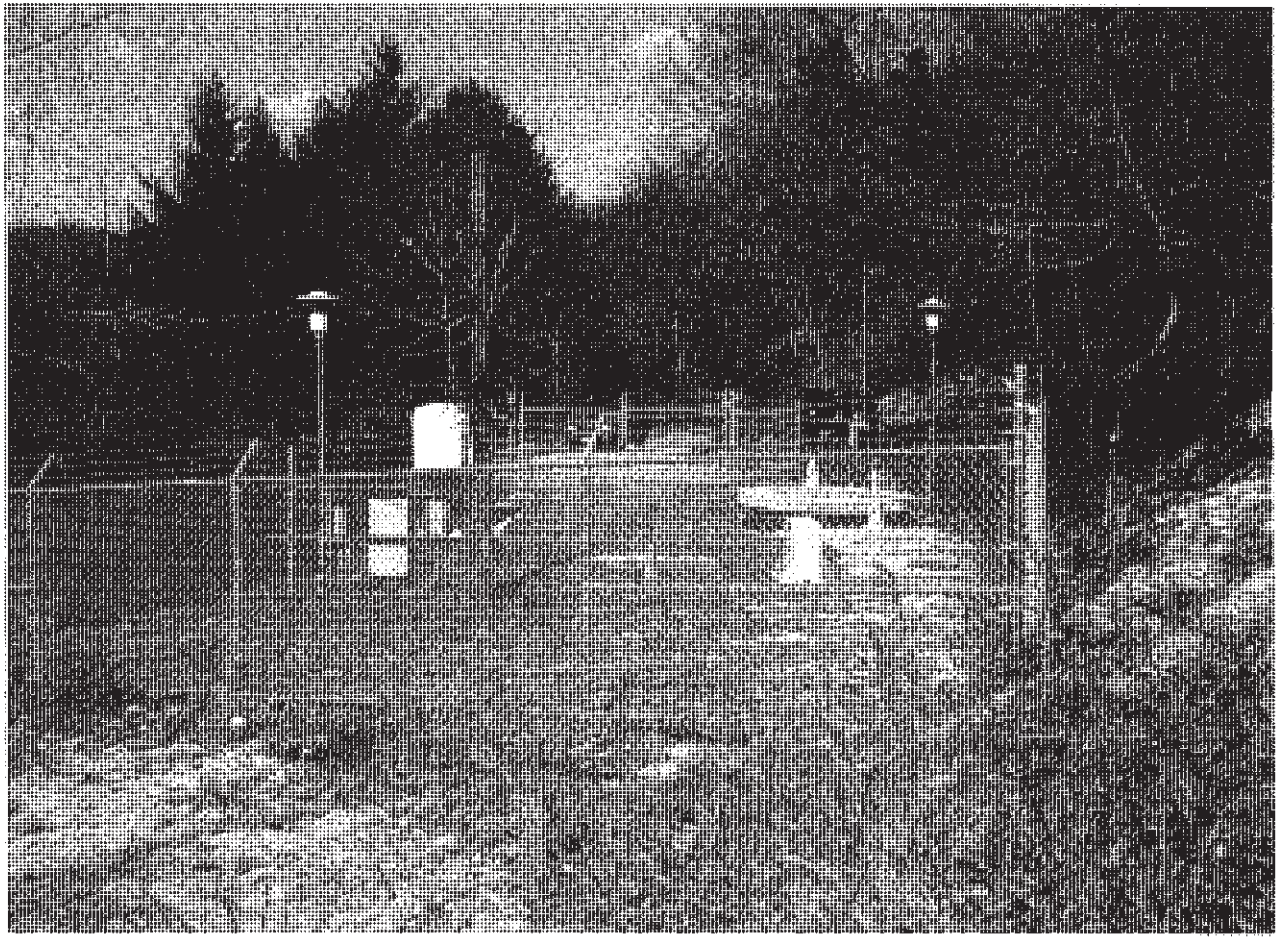
"Attachments"

Sewer District No. 5

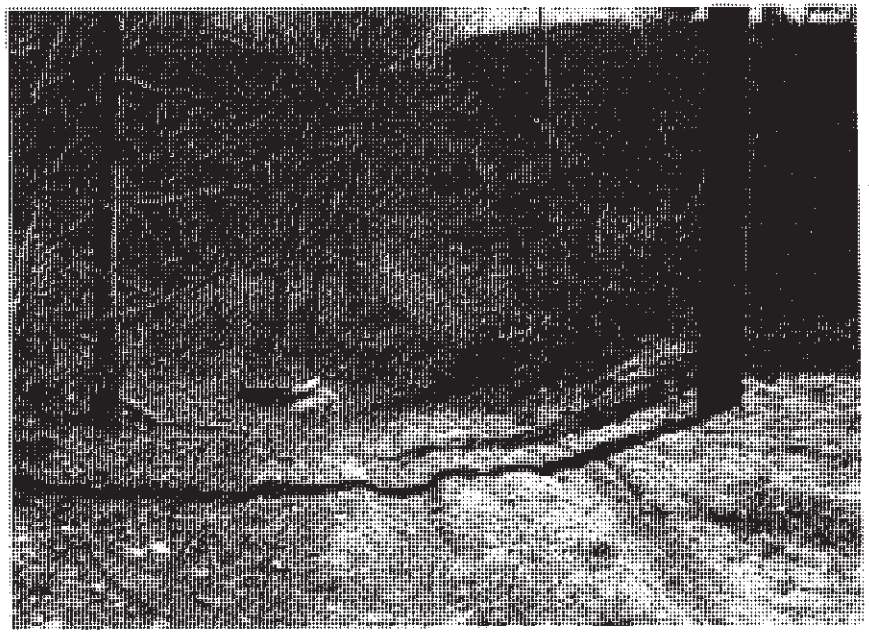
CP 8115 – Strathmore Huntington - Improvements


Old South Path
STP
Half Hollow Rd
I 495
Bagatelle Rd
Threepence Dr
Wincott Dr
PS 3
Beaumont Dr
Elkland Rd
SD 5
Strathmore
@ Huntington
Westbourne Ln
Carry Ln
Sevenoake Rd
Priory Ct
Bondsbury Ln
PS 1
Wilmington Dr
Barrington Pl
Chiswell Dr
Rawlings Dr
Farmington Ln
PS 4
Burrs Ln
PS 5
Rustic Gate Ln
May Hill Ln
SD 5
Strathmore
@ Huntington
Ryder Ave
STP
Ebbtide Ln
Thorngrove Ln
Truxton Rd
Richbourne Ln
Northcote Dr
FM
Colonial Springs Rd
PS 2
Conklin Ave
Straight Path
1,500
3,000
6,000 Feet
SCDPW SanitationGIS

Sewer District 5
Pumping Station 4



Sewer District 5
PS # 4 Force Main



COUNTY OF SUFFOLK

STEVEN BELLONE
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF PUBLIC WORKS

GILBERT ANDERSON, P.E.
COMMISSIONER

PHILIP A. BERDOLT
DEPUTY COMMISSIONER

MEMORANDUM

TO: Gloria Russo, Chairperson
Council on Environmental Quality

FROM: Ben Wright, P.E., Principal Civil Engineer BW

SUBJECT: **SD #7 – Medford, CP 8150**

DATE: April 25, 2012

Attached is a short EAF for the referenced sewer district. The sewer district has three remote pumping stations each with a varying length of force main and approximately 30 miles of sanitary sewers. The majority of facilities were constructed in the mid 1960's through 1980 and although modifications and upgrades have been performed in the past, there is the need to be proactive with respect to this sewage conveyance infrastructure. Not all locations have been identified with respect to the need for improvement but many of the areas have sewer pipe which is subject to corrosion and failure. All work would be confined to replacement in-kind of the facilities including within rights-of-way or easements. The adopted capital budget includes $.5 million to address these problems. The infrastructure includes the pumping stations, force mains, various areas of gravity sewers including their manholes, and other appurtenances. Pump Station No. 3 will require force main replacement as an initial phase. Pictures are attached of the pump station and a map of the district boundaries.

BW:ni
Attachment
cc: John Donovan, P.E., Chief Engineer
Boris Rukovets, P.E., Special Projects Supervisor
Ron Warren, Director of Operation & Maintenance
Michael Mule, Environmental Projects Coordinator
bw4-25-12 sd7 CEQ memo to GRusso

Project ID:

SUFFOLK COUNTY
SHORT ENVIRONMENTAL ASSESSMENT FORM
For UNLISTED ACTIONS Only
6 NYCRR Part 617.20
STATE ENVIRONMENTAL QUALITY REVIEW

Part I-PROJECT INFORMATION (to be completed by Applicant or Project Sponsor)

1. APPLICANT /SPONSOR **Department of Public Works**	2. PROJECT NAME **CP 8150 – SD 7 – Sewer System - Improvements**
3. PROJECT LOCATION Municipality **Medford**	County **Suffolk**

4. PRECISE LOCATION (Street address and road intersections, prominent landmarks, etc., or provide map)
Various locations of the sewage conveyance system as indicated on the attached sewer district map

5. IS PROPOSED ACTION:
☐ New ☐ Expansion X Modification /alteration

6. DESCRIBE PROJECT BRIEFLY:
Replace portions of the sewage conveyance system prior to emergency response or failure

7. AMOUNT OF LAND AFFECTED:
Initially **N/A** acres Ultimately **N/A** acres

8. WILL PROPOSED ACTION COMPLY WITH EXISTING ZONING OR OTHER LAND USE RESTRICTIONS?
X Yes ☐ No If No, describe briefly

9. WHAT IS PRESENT LAND US IN VICINITY OF PROJECT?
☐ Residential ☐ Industrial ☐ Commercial ☐ Agriculture ☐ Park/Forest/Open Space X Other
Describe:

10. DOES ACTION INVOLVE A PERMIT APPROVAL, OR FUNDING, NOW OR ULTIMATELY FROM ANY OTHER GOVERNMENTAL AGENCY (FEDERAL, STATE OR LOCAL)?
☐ Yes X No If yes, list agency(s) and permit/approvals

11. DOES ANY ASPECT OF THE ACTION HAVE A CURRENTLY VALID PERMIT OR APPROVAL?
X Yes ☐ No If yes, list agency name and permit/approval **NYSDEC – SPDES Permit**

12. AS A RESULT OF PROPOSED ACTION WILL EXISTING PERMIT/APPROVAL REQUIRE MODIFICATION?
☐ Yes X No

I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor Name: **Ben Wright** Date: **4/25/12**

Signature: Ben Wright

If the action is in the Coastal Area, and you are a state agency, complete the Coastal Assessment Form before proceeding with this assessment

Continue to Part II

PART II - ENVIRONMENTAL ASSESSMENT (To be completed by Agency)

A. DOES ACTION EXCEED ANY TYPE I THRESHOLD IN 6 NYCRR, PART 617.4? If yes, coordinate the review process and use the FULL EAF.
☐ yes X No Comment: **replacement in-kind**

B. WILL ACTION RECEIVE COORDINATED REVIEW AS PROVIDED FOR UNLISTED ACTIONS IN 6 NYCRR, PART 617.6? If No, a negative declaration may be superseded by another involved agency.
☐ yes X No

C. COULD ACTION RESULT IN ANY ADVERSE EFFECTS ASSOCIATED WITH THE FOLLOWING: (Answers may be handwritten, if legible)

C1. Existing air quality, surface or groundwater quality or quantity, noise levels, existing traffic patterns, solid waste production or disposal, potential or erosion, drainage or flooding problems?
Explain briefly: **Short term construction noise and traffic maintenance**

C2. Aesthetic, agricultural, archaeological, historic, or other natural or cultural resources; or community or neighborhood character?
Explain briefly: **no**

C3. Vegetation or fauna, fish, shellfish or wildlife species, significant habitats, or threatened or endangered species?
Explain briefly: **no**

C4. A community's existing plans or goals as officially adopted, or a change in use or intensity of use of land or other natural resources?
Explain briefly: **no**

C5. Growth, subsequent development, or related activities likely to be induced by the proposed action?
Explain briefly: **no**

C6. Long term, short term, cumulative, or other effects not identified in C1-C5?
Explain briefly: **no**

C7. Other impacts (including changes in use of either quantity or type of energy)?
Explain briefly: **no**

D. WILL THE PROJECT HAVE AN IMPACT ON THE ENVIRONMENTAL CHARACTERISTICS THAT CAUSED THE ESTABLISHMENT OF A CEA?
☐ yes X No If Yes, explain briefly:

E. IS THERE, OR IS THERE LIKELY TO BE, CONTROVERSY RELATED TO POTENTIAL ADVERSE ENVIRONMENTAL IMPACTS?
☐ yes X No If Yes, explain briefly:

PART III - DETERMINATION OF SIGNIFICANCE (To be completed by Agency)

INSTRUCTIONS: For each adverse effect identified above, determine whether it is substantial, large, important or otherwise significant. Each effect should be assessed in connection with its (a) setting (i.e. urban or rural); (b) probability of occurring; (c) duration; (d) irreversibility; (e) geographic scope; and (f) magnitude. If necessary, add attachments or reference supporting materials. Ensure that explanations contain sufficient detail to show that all relevant adverse impacts have been identified and adequately addressed.

☐ Check this box if you have identified one or more potentially large or significant adverse impacts which **MAY** occur. Then proceed directly to the **FULL EAF** and/or prepare a positive declaration.

☐ Check this box if you have determined, based on the information and analysis above and any supporting documentation, that the proposed action **WILL NOT** result in any significant adverse environmental impacts **AND** provide on attachments as necessary, the reasons supporting this determination:

Name of Lead Agency

Print or Type Name of Responsible Officer in Lead Agency

Title of Responsible Officer

Signature of Responsible Officer in Lead Agency

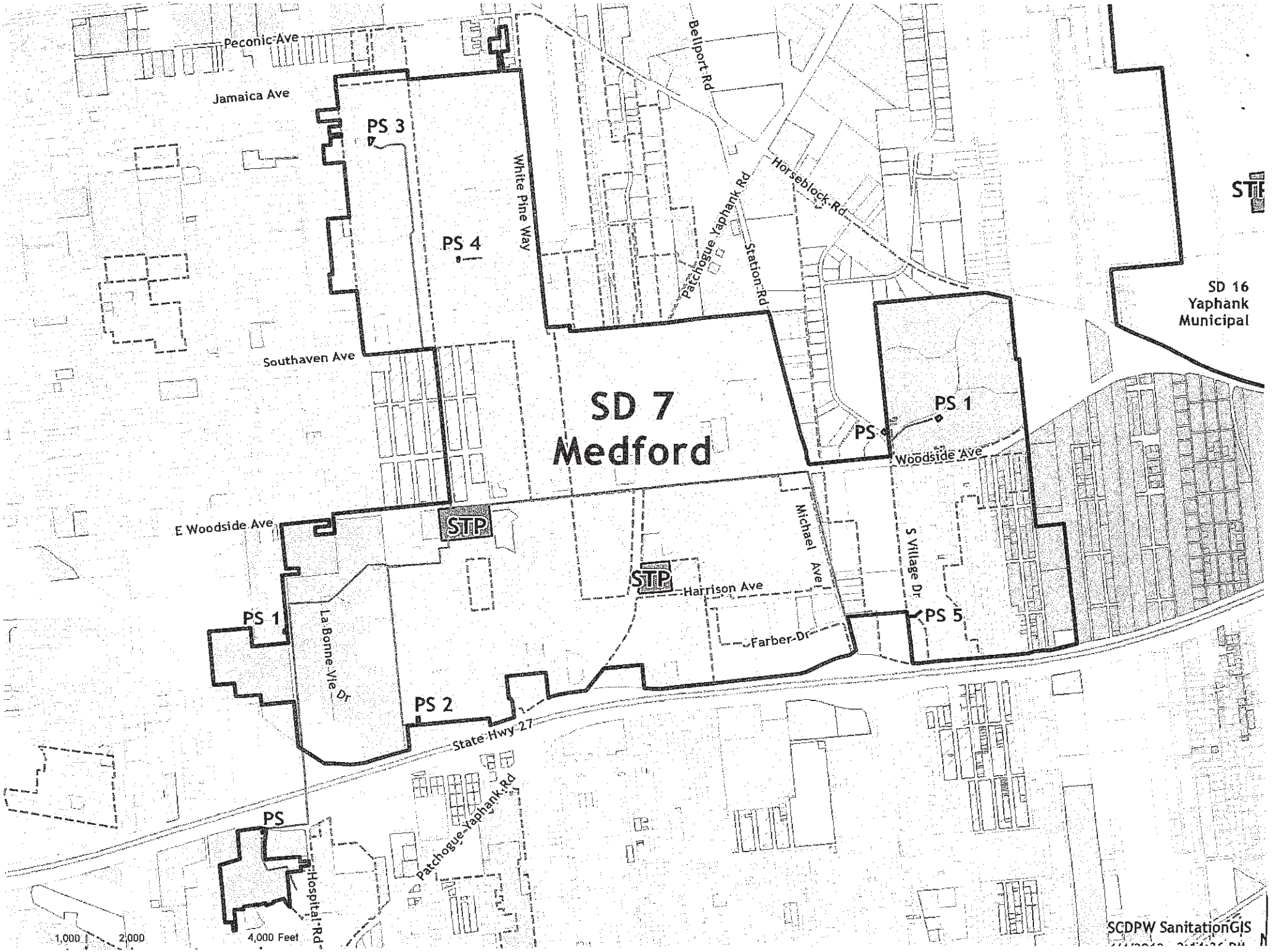
Signature of Preparer (If different from responsible officer)

Date

"Attachments"

Sewer District No. 7

CP 8150 – Sewer System - Improvements


SD 7
Medford
SD 16
Yaphank
Municipal
PS 1
PS 2
PS 3
PS 4
PS 5
PS
PS
PS 1
STP
STP
Peconic Ave
Jamaica Ave
Southaven Ave
E Woodside Ave
Woodside Ave
Harrison Ave
Farber Dr
State Hwy 27
Bellport Rd
White Pine Way
Patchogue Yaphank Rd
Station Rd
Horseblock Rd
Michael Ave
S Village Dr
La Bonne Vie Dr
Hospital Rd
1,000
2,000
4,000 Feet
SCDPW SanitationGIS

Maure Ave
PS 3
SD 7
Medford
FM
Meyer Ln
SCDPW SanitationGIS

Sewer District 7
Pumping Station 3

COUNTY OF SUFFOLK

STEVEN BELLONE
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF PUBLIC WORKS

GILBERT ANDERSON, P.E.
COMMISSIONER

PHILIP A. BERDOLT
DEPUTY COMMISSIONER

MEMORANDUM

TO: Gloria Russo, Chairperson
Council on Environmental Quality

FROM: Ben Wright, P.E., Principal Civil Engineer

SUBJECT: **SD #10 – Stony Brook, CP 8175**

DATE: April 25, 2012

Attached is a short EAF for the referenced sewer district. The sewer district has six remote pumping stations each with a varying length of force main and over 20 miles of sanitary sewers. The facilities were constructed in the mid 1960's and although modifications and upgrades have been performed in the past, there is the need to be proactive with respect to this sewage conveyance infrastructure. Not all locations have been identified with respect to the need for improvement but many of the areas have sewer pipe which is subject to corrosion and failure. All work would be confined to replacement in-kind of the facilities including within rights-of-way or easements. The adopted capital budget includes $500,000 to address these problems. The infrastructure includes the pumping stations, force mains, various areas of gravity sewers including their manholes, and other appurtenances. The initial focus is rehabilitation of Pump Station No. 3 and Pump Station No. 4. Pictures of the pump station sites and the district boundaries are attached.

BW:ni
Attachment
cc: John Donovan, P.E., Chief Engineer
Boris Rukovets, P.E., Special Projects Supervisor
Ron Warren, Director of Operation & Maintenance
Michael Mule, Environmental Projects Coordinator
bw4-25-12 sd10 CEQ memo to GRusso

Project ID:

SUFFOLK COUNTY
SHORT ENVIRONMENTAL ASSESSMENT FORM
For UNLISTED ACTIONS Only
6 NYCRR Part 617.20
STATE ENVIRONMENTAL QUALITY REVIEW

Part I-PROJECT INFORMATION (to be completed by Applicant or Project Sponsor)

1. APPLICANT /SPONSOR	2. PROJECT NAME
Department of Public Works	**CP 8175 – SD 10 – Stony Brook - Improvements**

3. PROJECT LOCATION
Municipality **Stony Brook** County **Suffolk**

4. PRECISE LOCATION (Street address and road intersections, prominent landmarks, etc., or provide map)
Various locations of the sewage conveyance system as indicated on the attached sewer district map

5. IS PROPOSED ACTION:
☐ New ☐ Expansion X Modification /alteration

6. DESCRIBE PROJECT BRIEFLY:
Replace portions of the sewage conveyance system prior to emergency response or failure

7. AMOUNT OF LAND AFFECTED:
Initially **N/A** acres Ultimately **N/A** acres

8. WILL PROPOSED ACTION COMPLY WITH EXISTING ZONING OR OTHER LAND USE RESTRICTIONS?
X Yes ☐ No If No, describe briefly

9. WHAT IS PRESENT LAND US IN VICINITY OF PROJECT?
☐ Residential ☐ Industrial ☐ Commercial ☐ Agriculture ☐ Park/Forest/Open Space X Other
Describe:

10. DOES ACTION INVOLVE A PERMIT APPROVAL, OR FUNDING, NOW OR ULTIMATELY FROM ANY OTHER GOVERNMENTAL AGENCY (FEDERAL, STATE OR LOCAL)?
☐ Yes X No If yes, list agency(s) and permit/approvals

11. DOES ANY ASPECT OF THE ACTION HAVE A CURRENTLY VALID PERMIT OR APPROVAL?
X Yes ☐ No If yes, list agency name and permit/approval **NYSDEC – SPDES Permit**

12. AS A RESULT OF PROPOSED ACTION WILL EXISTING PERMIT/APPROVAL REQUIRE MODIFICATION?
☐ Yes X No

I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor Name: **Ben Wright** Date: **4/25/12**

Signature: Ben Wright

If the action is in the Coastal Area, and you are a state agency, complete the Coastal Assessment Form before proceeding with this assessment

Continue to Part II

PART II - ENVIRONMENTAL ASSESSMENT (To be completed by Agency)

A. DOES ACTION EXCEED ANY TYPE I THRESHOLD IN 6 NYCRR, PART 617.4? If yes, coordinate the review process and use the FULL EAF.
☐ yes X No Comment: **replacement in-kind**

B. WILL ACTION RECEIVE COORDINATED REVIEW AS PROVIDED FOR UNLISTED ACTIONS IN 6 NYCRR, PART 617.6? If No, a negative declaration may be superseded by another involved agency.
☐ yes X No

C. COULD ACTION RESULT IN ANY ADVERSE EFFECTS ASSOCIATED WITH THE FOLLOWING: (Answers may be handwritten, if legible)

C1. Existing air quality, surface or groundwater quality or quantity, noise levels, existing traffic patterns, solid waste production or disposal, potential or erosion, drainage or flooding problems?
Explain briefly: **Short term construction noise and traffic maintenance**

C2. Aesthetic, agricultural, archaeological, historic, or other natural or cultural resources; or community or neighborhood character?
Explain briefly: **no**

C3. Vegetation or fauna, fish, shellfish or wildlife species, significant habitats, or threatened or endangered species?
Explain briefly: **no**

C4. A community's existing plans or goals as officially adopted, or a change in use or intensity of use of land or other natural resources?
Explain briefly: **no**

C5. Growth, subsequent development, or related activities likely to be induced by the proposed action?
Explain briefly: **no**

C6. Long term, short term, cumulative, or other effects not identified in C1-C5?
Explain briefly: **no**

C7. Other impacts (including changes in use of either quantity or type of energy)?
Explain briefly: **no**

D. WILL THE PROJECT HAVE AN IMPACT ON THE ENVIRONMENTAL CHARACTERISTICS THAT CAUSED THE ESTABLISHMENT OF A CEA?
☐ yes X No If Yes, explain briefly:

E. IS THERE, OR IS THERE LIKELY TO BE, CONTROVERSY RELATED TO POTENTIAL ADVERSE ENVIRONMENTAL IMPACTS?
☐ yes X No If Yes, explain briefly:

PART III - DETERMINATION OF SIGNIFICANCE (To be completed by Agency)

INSTRUCTIONS: For each adverse effect identified above, determine whether it is substantial, large, important or otherwise significant. Each effect should be assessed in connection with its (a) setting (i.e. urban or rural); (b) probability of occurring; (c) duration; (d) irreversibility; (e) geographic scope; and (f) magnitude. If necessary, add attachments or reference supporting materials. Ensure that explanations contain sufficient detail to show that all relevant adverse impacts have been identified and adequately addressed.

☐ Check this box if you have identified one or more potentially large or significant adverse impacts which **MAY** occur. Then proceed directly to the **FULL EAF** and/or prepare a positive declaration.

☐ Check this box if you have determined, based on the information and analysis above and any supporting documentation, that the proposed action **WILL NOT** result in any significant adverse environmental impacts **AND** provide on attachments as necessary, the reasons supporting this determination:

Name of Lead Agency

Print or Type Name of Responsible Officer in Lead Agency

Title of Responsible Officer

Signature of Responsible Officer in Lead Agency

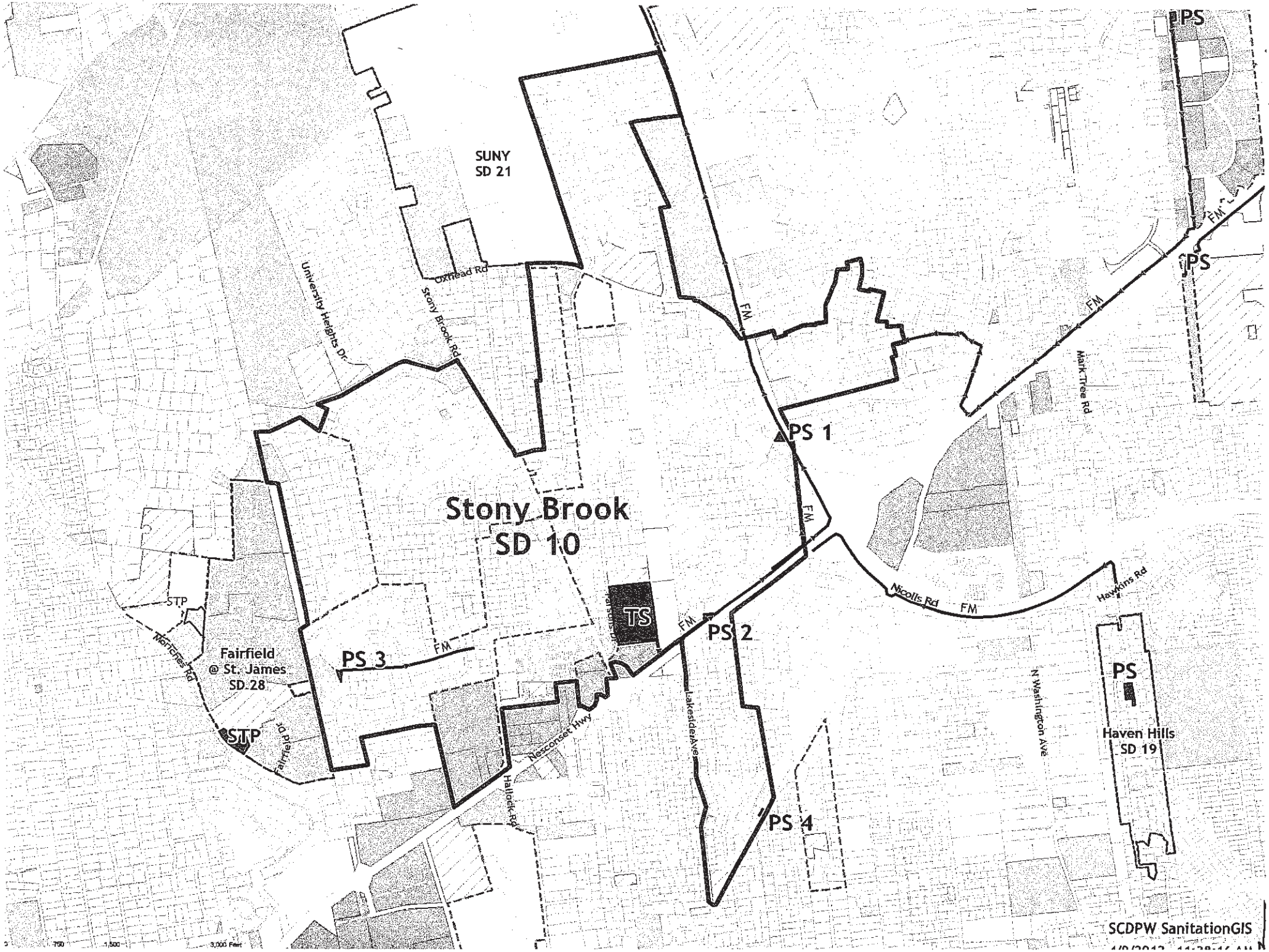
Signature of Preparer (If different from responsible officer)

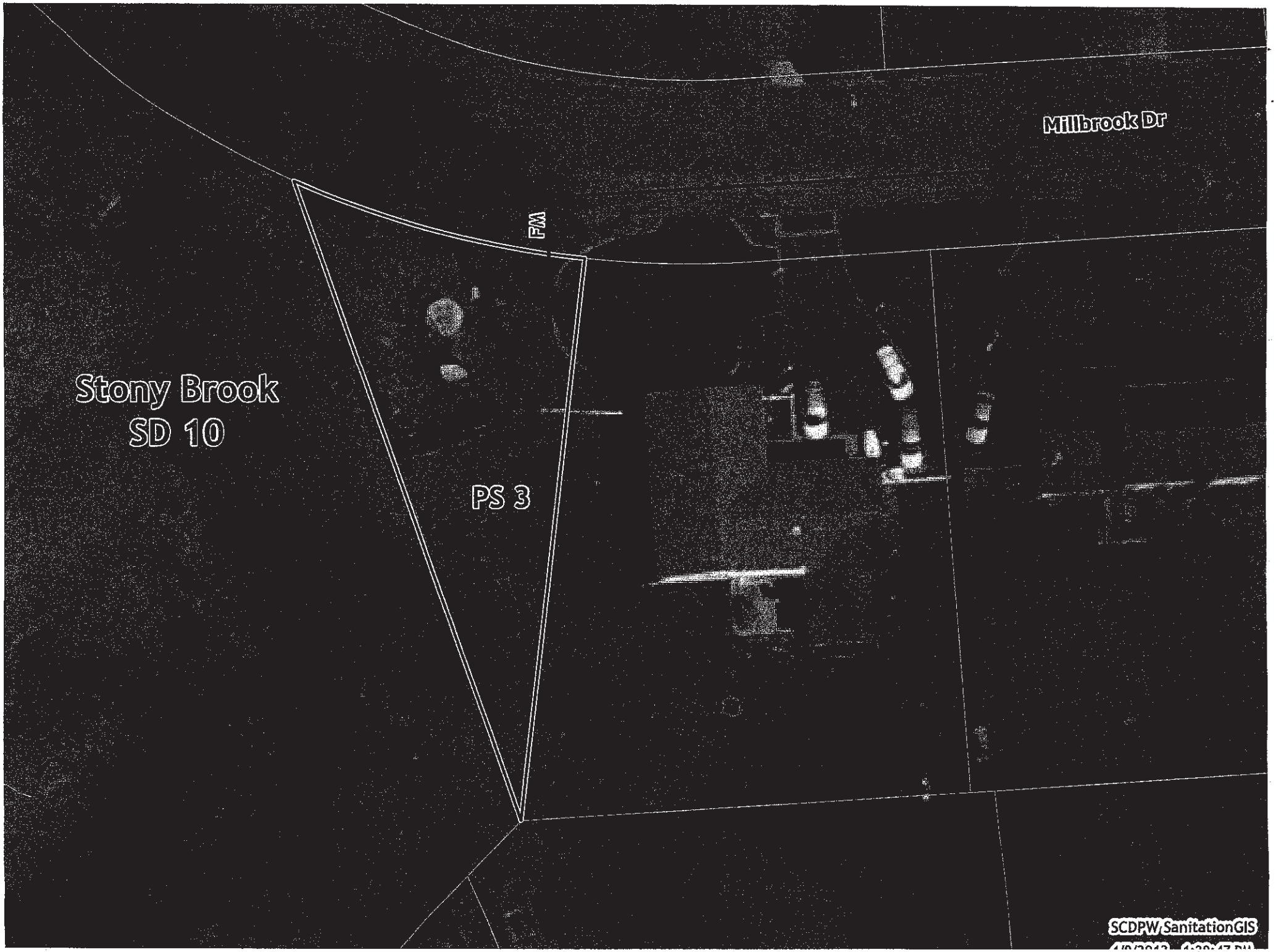
Date

"Attachments"

Sewer District No. 10

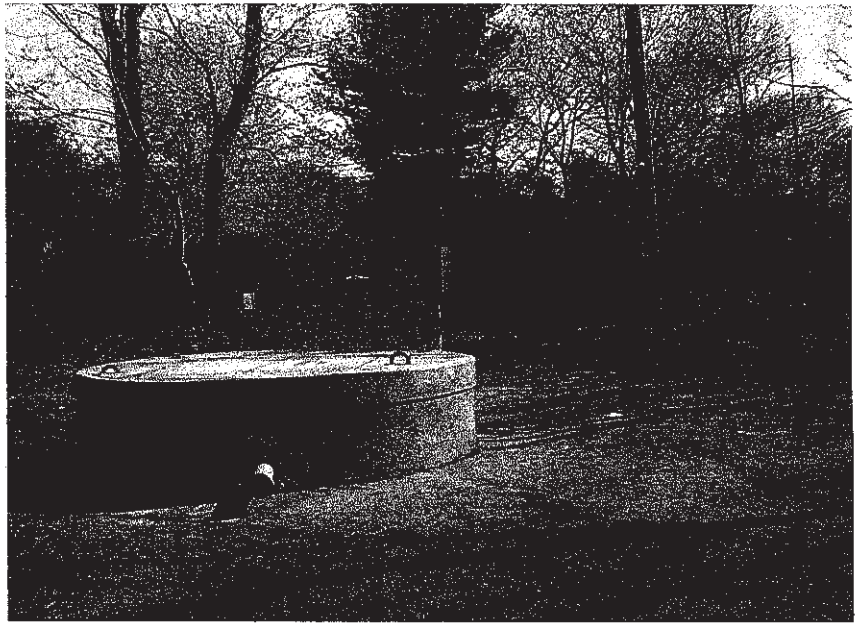
CP 8175 – Stony Brook - Improvements


SUNY
SD 21
Stony Brook
SD 10
Fairfield
@ St. James
SD 28
PS 1
PS 2
PS 3
PS 4
PS
PS
PS
TS
STP
STP
FM
FM
FM
FM
FM
Oxhead Rd
Stony Brook Rd
University Heights Dr
Mark Tree Rd
Nicolls Rd
Hawkins Rd
Parsons Dr
Lakeside Ave
N Washington Ave
Nesconset Hwy
Hallock Rd
Norremac Rd
Fairfield Dr
Haven Hills
SD 19
SCDPW SanitationGIS
750
1,500
3,000 Feet


Millbrook Dr
FM
Stony Brook
SD 10
PS 3
SCDPW SanitationGIS

PS 4
Stony Brook
SD 10
Pond Path
Elliot Ave
Tulip Grove Dr
SCDPW/SanitationGIS

Sewer District 10
Pumping Stations 3 and 4



COUNTY OF SUFFOLK

STEVEN BELLONE
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF PUBLIC WORKS

GILBERT ANDERSON, P.E.
COMMISSIONER

PHILIP A. BERDOLT
DEPUTY COMMISSIONER

MEMORANDUM

TO: Gloria Russo, Chairperson
Council on Environmental Quality

FROM: Ben Wright, P.E., Principal Civil Engineer

SUBJECT: **SD #11 – Selden, CP 8117**

DATE: April 25, 2012

Attached is a short EAF for the referenced sewer district. The sewer district has twenty-two remote pumping stations each with a varying length of force main and approximately 80 miles of sanitary sewers. The facilities were constructed in the mid 1960's through 1980 and although modifications and upgrades have been performed in the past, there is the need to be proactive with respect to this sewage conveyance infrastructure. Not all locations have been identified with respect to the need for improvement but many of the areas have sewer pipe which is subject to corrosion and failure. All work would be confined to replacement in-kind of the facilities including within rights-of-way or easements. The adopted capital budget includes $2.5 million over a number of years to address these problems. The infrastructure includes the pumping stations, force mains, various areas of gravity sewers including their manholes, and other appurtenances. The initial focus is Pump Station No. 5 for which pictures are attached of the pumping station site.

BW:ni
Attachment
cc: John Donovan, P.E., Chief Engineer
Boris Rukovets, P.E., Special Projects Supervisor
Ron Warren, Director of Operation & Maintenance
Michael Mule, Environmental Projects Coordinator
bw4-25-12 sd11 CEQ memo to GRusso

Project ID:

SUFFOLK COUNTY
SHORT ENVIRONMENTAL ASSESSMENT FORM
For UNLISTED ACTIONS Only
6 NYCRR Part 617.20
STATE ENVIRONMENTAL QUALITY REVIEW

Part I-PROJECT INFORMATION (to be completed by Applicant or Project Sponsor)

1. APPLICANT /SPONSOR
Department of Public Works

2. PROJECT NAME
CP 8117 - SD 11 – Selden - Improvements

3. PROJECT LOCATION
Municipality **Selden and Coram**

County **Suffolk**

4. PRECISE LOCATION (Street address and road intersections, prominent landmarks, etc., or provide map)
Various locations of the sewage conveyance system as indicated on the attached sewer district map

5. IS PROPOSED ACTION:
☐ New ☐ Expansion X Modification /alteration

6. DESCRIBE PROJECT BRIEFLY:
Replace portions of the sewage conveyance system prior to emergency response or failure

7. AMOUNT OF LAND AFFECTED:
Initially **N/A** acres Ultimately **N/A** acres

8. WILL PROPOSED ACTION COMPLY WITH EXISTING ZONING OR OTHER LAND USE RESTRICTIONS?
X Yes ☐ No If No, describe briefly

9. WHAT IS PRESENT LAND US IN VICINITY OF PROJECT?
☐ Residential ☐ Industrial ☐ Commercial ☐ Agriculture ☐ Park/Forest/Open Space X Other
Describe:

10. DOES ACTION INVOLVE A PERMIT APPROVAL, OR FUNDING, NOW OR ULTIMATELY FROM ANY OTHER GOVERNMENTAL AGENCY (FEDERAL, STATE OR LOCAL)?
☐ Yes X No If yes, list agency(s) and permit/approvals

11. DOES ANY ASPECT OF THE ACTION HAVE A CURRENTLY VALID PERMIT OR APPROVAL?
X Yes ☐ No If yes, list agency name and permit/approval **NYSDEC – SPDES Permit**

12. AS A RESULT OF PROPOSED ACTION WILL EXISTING PERMIT/APPROVAL REQUIRE MODIFICATION?
☐ Yes X No

I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor Name: **Ben Wright** Date: **4/25/12**

Signature: Ben Wright

If the action is in the Coastal Area, and you are a state agency, complete the Coastal Assessment Form before proceeding with this assessment

Continue to Part II

PART II - ENVIRONMENTAL ASSESSMENT (To be completed by Agency)

A. DOES ACTION EXCEED ANY TYPE I THRESHOLD IN 6 NYCRR, PART 617.4? If yes, coordinate the review process and use the FULL EAF.

☐ yes X No Comment: **replacement in-kind**

B. WILL ACTION RECEIVE COORDINATED REVIEW AS PROVIDED FOR UNLISTED ACTIONS IN 6 NYCRR, PART 617.6? If No, a negative declaration may be superseded by another involved agency.

☐ yes X No

C. COULD ACTION RESULT IN ANY ADVERSE EFFECTS ASSOCIATED WITH THE FOLLOWING: (Answers may be handwritten, if legible}

C1. Existing air quality, surface or groundwater quality or quantity, noise levels, existing traffic patterns, solid waste production or disposal, potential or erosion, drainage or flooding problems?
Explain briefly: **Short term construction noise and traffic maintenance**

C2. Aesthetic, agricultural, archaeological, historic, or other natural or cultural resources; or community or neighborhood character?
Explain briefly: **no**

C3. Vegetation or fauna, fish, shellfish or wildlife species, significant habitats, or threatened or endangered species?
Explain briefly: **no**

C4. A community's existing plans or goals as officially adopted, or a change in use or intensity of use of land or other natural resources?
Explain briefly: **no**

C5. Growth, subsequent development, or related activities likely to be induced by the proposed action?
Explain briefly: **no**

C6. Long term, short term, cumulative, or other effects not identified in C1-C5?
Explain briefly: **no**

C7. Other impacts (including changes in use of either quantity or type of energy)?
Explain briefly: **no**

D. WILL THE PROJECT HAVE AN IMPACT ON THE ENVIRONMENTAL CHARACTERISTICS THAT CAUSED THE ESTABLISHMENT OF A CEA?

☐ yes X No If Yes, explain briefly:

E. IS THERE, OR IS THERE LIKELY TO BE, CONTROVERSY RELATED TO POTENTIAL ADVERSE ENVIRONMENTAL IMPACTS?

☐ yes X No If Yes, explain briefly:

PART III - DETERMINATION OF SIGNIFICANCE (To be completed by Agency)

INSTRUCTIONS: For each adverse effect identified above, determine whether it is substantial, large, important or otherwise significant. Each effect should be assessed in connection with its (a) setting (i.e. urban or rural); (b) probability of occurring; (c) duration; (d) irreversibility; (e) geographic scope; and (f) magnitude. If necessary, add attachments or reference supporting materials. Ensure that explanations contain sufficient detail to show that all relevant adverse impacts have been identified and adequately addressed.

☐ Check this box if you have identified one or more potentially large or significant adverse impacts which **MAY** occur. Then proceed directly to the **FULL EAF** and/or prepare a positive declaration.

☐ Check this box if you have determined, based on the information and analysis above and any supporting documentation, that the proposed action **WILL NOT** result in any significant adverse environmental impacts **AND** provide on attachments as necessary, the reasons supporting this determination:

Name of Lead Agency

Print or Type Name of Responsible Officer in Lead Agency

Title of Responsible Officer

Signature of Responsible Officer in Lead Agency

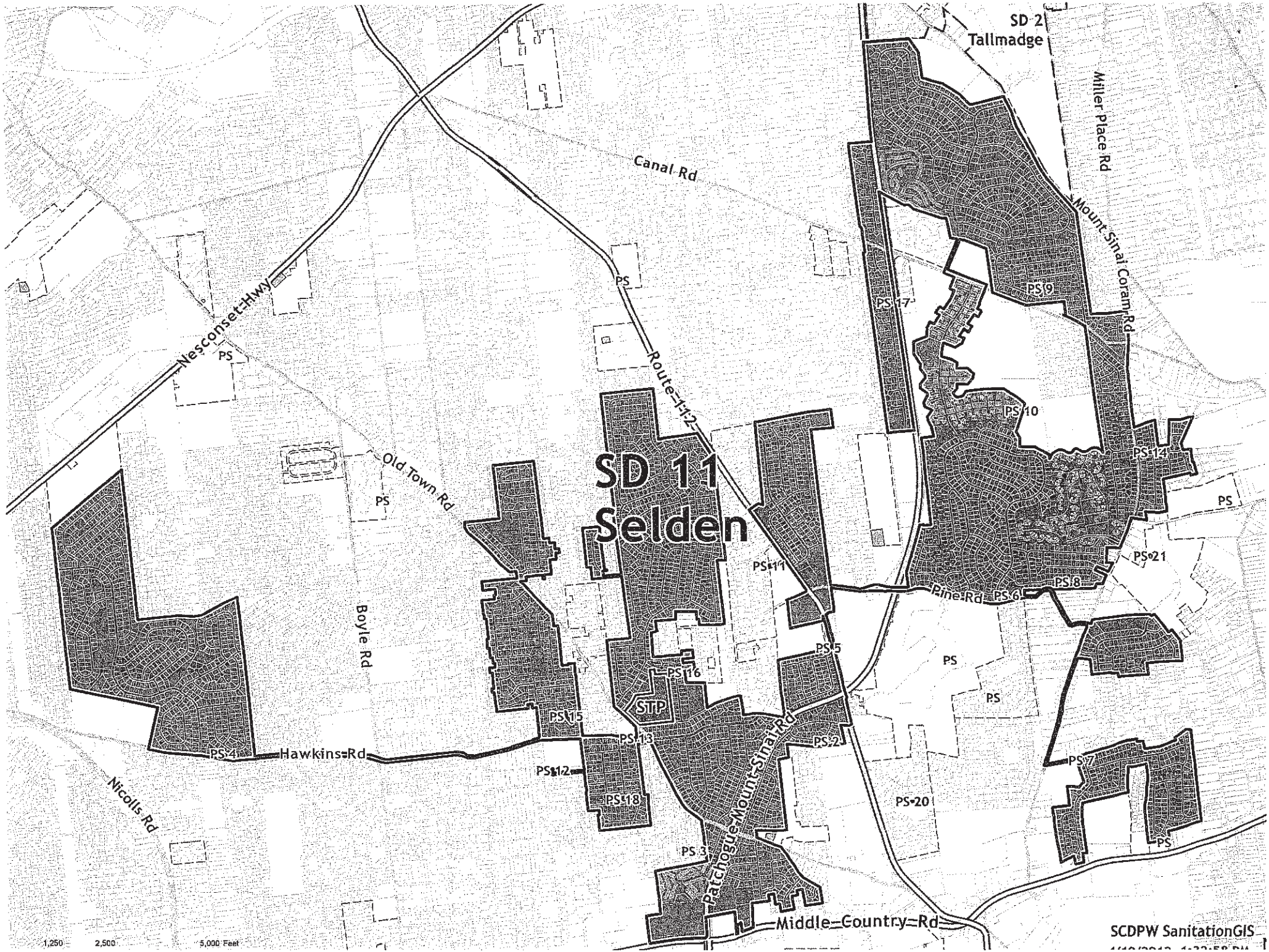
Signature of Preparer (If different from responsible officer)

Date

"Attachments"

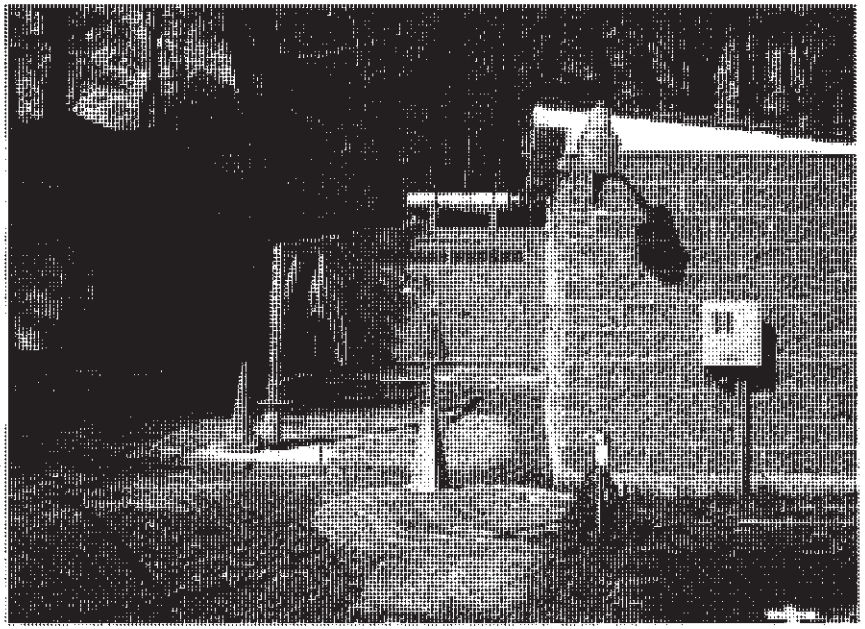
Sewer District No. 11

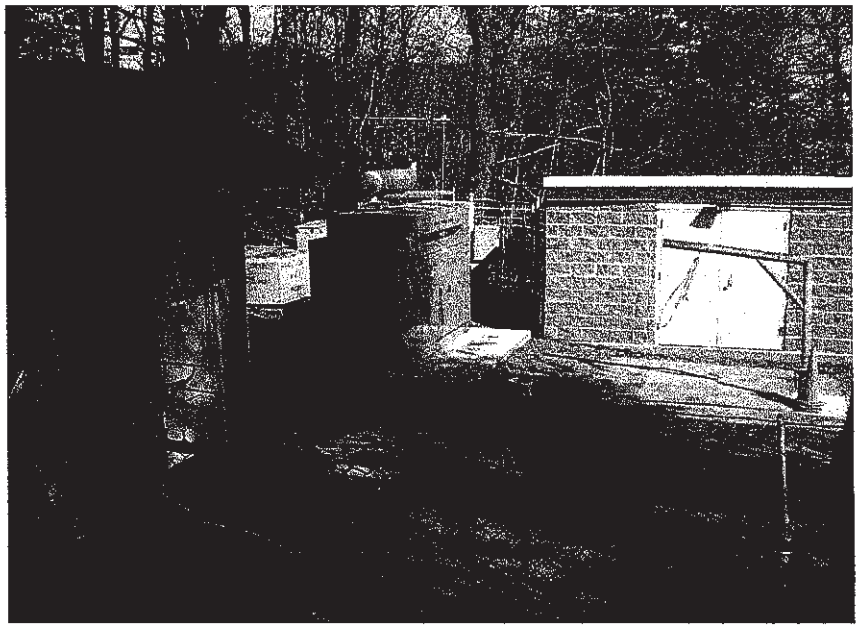
CP 8117 – Selden - Improvements


SD 11
Selden
SD 2
Tallmadge
Canal Rd
Nesconset Hwy
Route 112
Old Town Rd
Boyle Rd
Hawkins Rd
Nicolls Rd
Patchogue Mount Sinai Rd
Middle Country Rd
Miller Place Rd
Mount Sinai Coram Rd
Pine Rd
STP
PS
PS 1
PS 2
PS 3
PS 4
PS 5
PS 6
PS 7
PS 8
PS 9
PS 10
PS 11
PS 12
PS 13
PS 14
PS 15
PS 16
PS 17
PS 18
PS 20
PS 21
1,250
2,500
5,000 Feet
SCDPW SanitationGIS

PS 5
Route 142
SD 11
Selden

Sewer District 11
Pumping Station 5





COUNTY OF SUFFOLK

STEVEN BELLONE
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF PUBLIC WORKS

GILBERT ANDERSON, P.E.
COMMISSIONER

PHILIP A. BERDOLT
DEPUTY COMMISSIONER

May 2, 2012

Michael Mulé
Environmental Projects Coordinator
Suffolk County Planning Department
H. Lee Dennison Building, 4th Floor
100 Veterans Memorial Highway
Hauppauge, NY 11788-0099

Re: Rehabilitation of Browns Creek Bridge (Bryan's Bridge)
Town of Islip, Suffolk County, NY
CP 5850

Dear Mr. Mulé,

The Suffolk County Department of Public Works is planning to replace the deteriorated bridge that carries County Road 65, Middle Road over Browns Creek. The structure will be replaced with a precast concrete frame arch bridge which will shorten construction time and provide an increase in stream width. We would appreciate a project review to be scheduled for the May 16, 2012 meeting of the Council for Environmental Quality.

We have enclosed the following material for review:

1. Twenty five (25) copies of the Short Environmental Assessment Form.
2. Twenty five (25) copies of Half Size Drawings showing proposed plan, elevation and cross-sections and drawings of existing bridge.
3. Twenty five (25) copies of a brief report containing a location map, aerial, quadrangle map, narrative and photographs.

Thank you for your continued cooperation. If you have any questions or require further information, please do not hesitate to contact Robert H. Whelan, P.E., Director of Bridges/Structures & Waterways at (631) 852-4078.

Very truly yours,

WILLIAM HILLMAN, P.E.
CHIEF ENGINEER

By: FOR
Robert H. Whelan, P.E., Director
Bridges, Structures & Waterways

KWS/kdc
attachments
cc: William Hillman, P.E., Chief Engineer
Kyle W. Swaringen, P.E., Associate Civil Engineer
Wayne Culver, P.E., Project Manager, LKB

Project ID:

SUFFOLK COUNTY
SHORT ENVIRONMENTAL ASSESSMENT FORM
For UNLISTED ACTIONS Only
6 NYCRR Part 617.20
STATE ENVIRONMENTAL QUALITY REVIEW

Part I-PROJECT INFORMATION (to be completed by Applicant or Project Sponsor)

1. APPLICANT /SPONSOR
Suffolk County Department of Public Works

2. PROJECT NAME
Rehabilitation of Browns Creek Bridge

3. PROJECT LOCATION
Municipality **Town of Islip**

County **Suffolk**

4. PRECISE LOCATION (Street address and road intersections, prominent landmarks, etc., or provide map)
Middle Road (County Road 65) - 0.3 miles east of Montauk Highway

5. IS PROPOSED ACTION:
☐ New ☐ Expansion ☒ Modification /alteration

6. DESCRIBE PROJECT BRIEFLY:
Replacement of deteriorated bridge that carries Middle Road (County Road 65) over Browns Creek. Structure will be replaced with a precast concrete frame arch.

7. AMOUNT OF LAND AFFECTED:
Initially **0.04** acres Ultimately **0.04** acres

8. WILL PROPOSED ACTION COMPLY WITH EXISTING ZONING OR OTHER LAND USE RESTRICTIONS?
☒ Yes ☐ No If No, describe briefly

9. WHAT IS PRESENT LAND US IN VICINITY OF PROJECT?
☐ Residential ☐ Industrial ☐ Commercial ☐ Agriculture ☐ Park/Forest/Open Space ☒ Other
Describe: **Existing Roadway Right of Way (ROW)**

10. DOES ACTION INVOLVE A PERMIT APPROVAL, OR FUNDING, NOW OR ULTIMATELY FROM ANY OTHER GOVERNMENTAL AGENCY (FEDERAL, STATE OR LOCAL)?
☒ Yes ☐ No If yes, list agency(s) and permit/approvals **USACE Nationwide Permits and NYSDEC Tidal Wetlands**

11. DOES ANY ASPECT OF THE ACTION HAVE A CURRENTLY VALID PERMIT OR APPROVAL?
☐ Yes ☒ No If yes, list agency name and permit/approval

12. AS A RESULT OF PROPOSED ACTION WILL EXISTING PERMIT/APPROVAL REQUIRE MODIFICATION?
☐ Yes ☒ No

I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor Name: **Robert H. Whelan, P.E., Director of Bridges/Structures and Waterways** Date: 5/1/12

Signature: FOR

If the action is in the Coastal Area, and you are a state agency, complete the Coastal Assessment Form before proceeding with this assessment

Continue to Part II

PART II - ENVIRONMENTAL ASSESSMENT (To be completed by Agency)

A. DOES ACTION EXCEED ANY TYPE I THRESHOLD IN 6 NYCRR, PART 617.4? If yes, coordinate the review process and use the FULL EAF.
☐ yes ☒ No Comment:

B. WILL ACTION RECEIVE COORDINATED REVIEW AS PROVIDED FOR UNLISTED ACTIONS IN 6 NYCRR, PART 617.6? If No, a negative declaration may be superseded by another involved agency.
☒ yes ☐ No

C. COULD ACTION RESULT IN ANY ADVERSE EFFECTS ASSOCIATED WITH THE FOLLOWING: (Answers may be handwritten, if legible)

C1. Existing air quality, surface or groundwater quality or quantity, noise levels, existing traffic patterns, solid waste production or disposal, potential or erosion, drainage or flooding problems?
Explain briefly: **Will temporarily affect traffic patterns during construction only.**

C2. Aesthetic, agricultural, archaeological, historic, or other natural or cultural resources; or community or neighborhood character?
Explain briefly: **N/A**

C3. Vegetation or fauna, fish, shellfish or wildlife species, significant habitats, or threatened or endangered species?
Explain briefly: **N/A**

C4. A community's existing plans or goals as officially adopted, or a change in use or intensity of use of land or other natural resources?
Explain briefly: **N/A**

C5. Growth, subsequent development, or related activities likely to be induced by the proposed action?
Explain briefly: **N/A**

C6. Long term, short term, cumulative, or other effects not identified in C1-C5?
Explain briefly: **N/A**

C7. Other impacts (including changes in use of either quantity or type of energy)?
Explain briefly: **N/A**

D. WILL THE PROJECT HAVE AN IMPACT ON THE ENVIRONMENTAL CHARACTERISTICS THAT CAUSED THE ESTABLISHMENT OF A CEA?
☐ yes ☒ No If Yes, explain briefly:

E. IS THERE, OR IS THERE LIKELY TO BE, CONTROVERSY RELATED TO POTENTIAL ADVERSE ENVIRONMENTAL IMPACTS?
☐ yes ☒ No If Yes, explain briefly:

PART III - DETERMINATION OF SIGNIFICANCE (To be completed by Agency)

INSTRUCTIONS: For each adverse effect identified above, determine whether it is substantial, large, important or otherwise significant. Each effect should be assessed in connection with its (a) setting (i.e. urban or rural); (b) probability of occurring; (c) duration; (d) irreversibility; (e) geographic scope; and (f) magnitude. If necessary, add attachments or reference supporting materials. Ensure that explanations contain sufficient detail to show that all relevant adverse impacts have been identified and adequately addressed.

☐ Check this box if you have identified one or more potentially large or significant adverse impacts which **MAY** occur. Then proceed directly to the **FULL EAF** and/or prepare a positive declaration.

☒ Check this box if you have determined, based on the information and analysis above and any supporting documentation, that the proposed action **WILL NOT** result in any significant adverse environmental impacts **AND** provide on attachments as necessary, the reasons supporting this determination:

Suffolk County
Name of Lead Agency

Robert H. Whelan, P.E.
Print or Type Name of Responsible Officer in Lead Agency

FOR
Signature of Responsible Officer in Lead Agency

Director - Bridges/Structures and Waterways
Title of Responsible Officer

Signature of Preparer (If different from responsible officer)

Date

THE RECONSTRUCTION OF THE MIDDLE ROAD OVER BROWNS CREEK BRIDGE

BIN 3300740

CP 5850

Sayville, Town of Islip,
Suffolk County, NY

Prepared for:

Suffolk County Department of Public Works
Yaphank, NY

Prepared by:

Lockwood, Kessler & Bartlett, Inc.
Consulting Engineers
Syosset, NY

APRIL 2012

TABLE OF CONTENTS

SECTION	PAGE
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AERIAL VIEW OF PROJECT LOCATION	4
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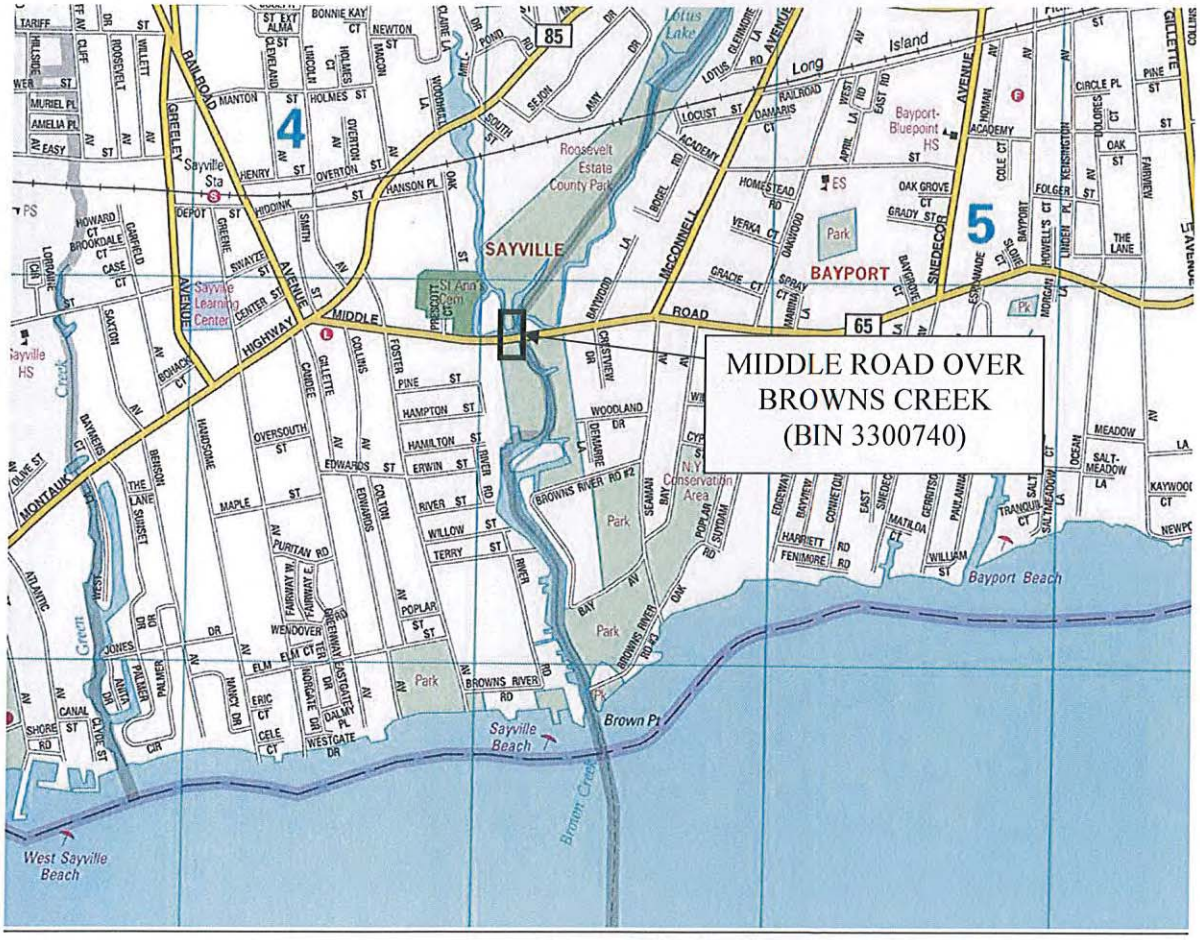
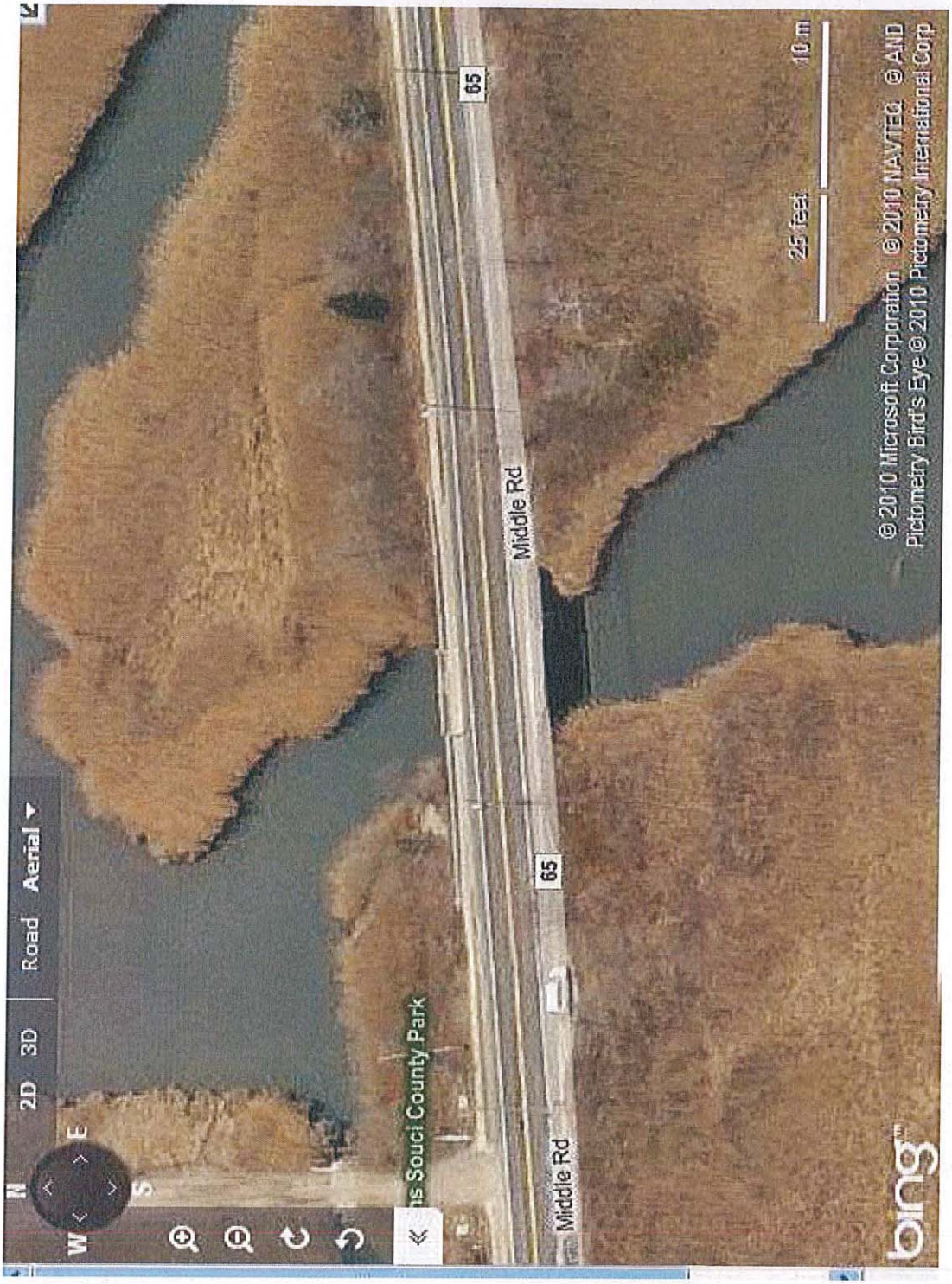
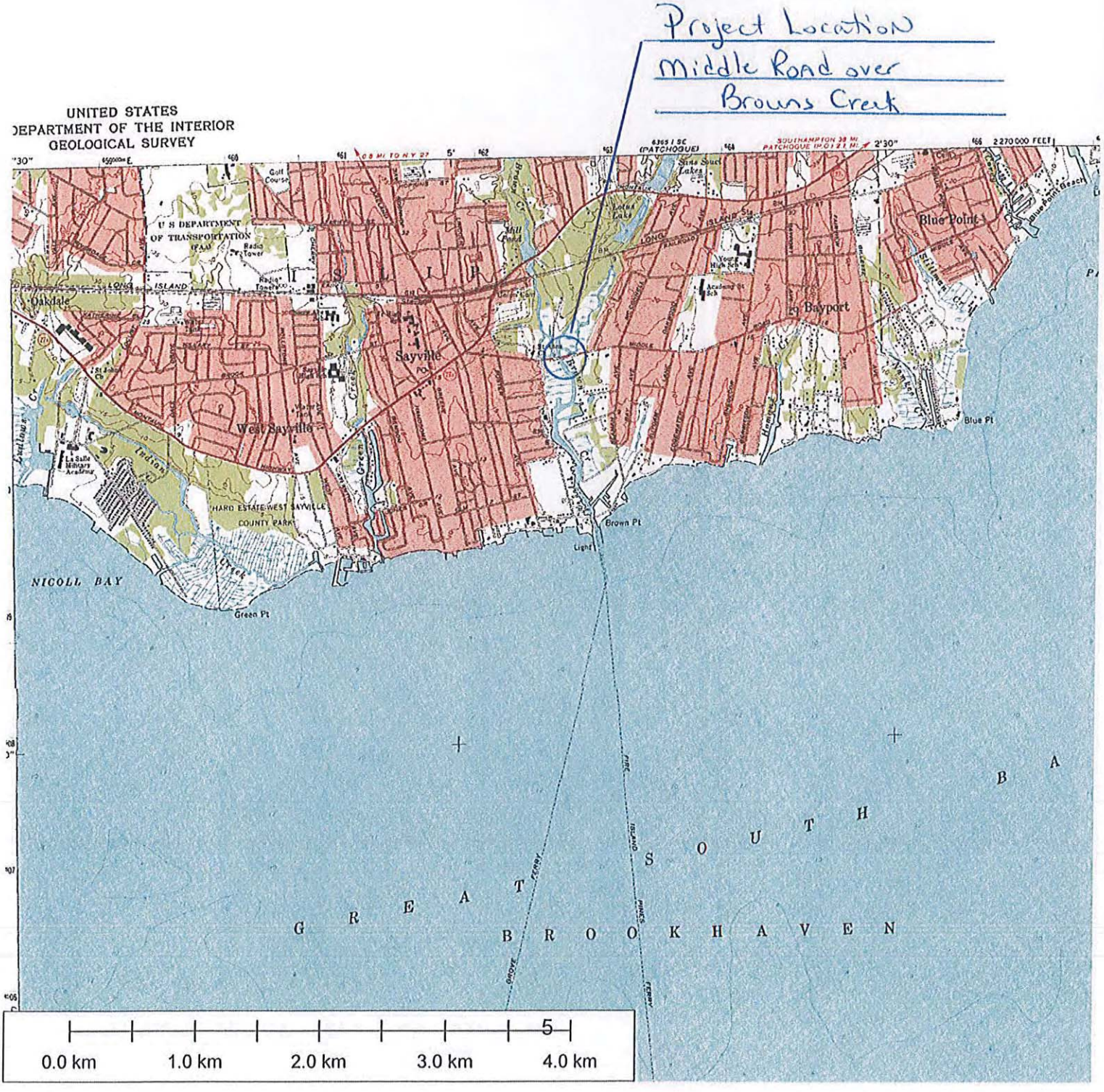
PROJECT LOCATION MAP



AERIAL VIEW
MIDDLE ROAD OVER BROWNS CREEK




Project Location
Middle Road over
Browns Creek
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Oakdale
Sayville
West Sayville
Bayport
Blue Point
Blue Pt
Brown Pt
Green Pt
NICOLL BAY
GREAT SOUTH BAY
BROOKHAVEN
0.0 km
1.0 km
2.0 km
3.0 km
4.0 km
5

I. PROJECT EVOLUTION

The Middle Road (CR 65) over Browns Creek Bridge was constructed in 1936 and rehabilitated in 1996. Because of the ongoing significant deteriorating condition of the bridge, LKB was retained by the County in 2009 to perform a field inspection of the bridge and prepare an Evaluation Report. The inspection was performed in the Fall of 2009 and the final Evaluation Report which included input from the County was completed in August 2010. Based upon an analysis of feasible alternatives, it is recommended that the bridge be replaced. In July 2011, the County retained LKB to perform Preliminary and Final Design with services to include Environmental Permitting and the preparation of an Alternative Study Report.

II. EXISTING CONDITIONS

The bridge is 46' wide from outside to outside face of parapet wall and 33'-6" wide from curb to curb. The bridge is oriented in the east/west direction, has two 11' wide traffic lanes, one in each direction, two 5'-9" wide shoulders and two 5'-5" wide sidewalks (See Figures 1 & 2).

The bridge is a 28'- 4" long (25' clear) single span concrete tee beam structure with asphalt overlay supported by concrete pile bent abutments. The wingwalls and the bulkhead in front of the pile bent consist of two parallel sets of vertical timber sheeting with upper and lower wales and tiebacks, separated by 6 inches" of flowable concrete. The bridge carries a gas main and a 12" water main. These utilities will be maintained on the new bridge.

The following is a summary of the inspection findings which led to the replacement alternative:

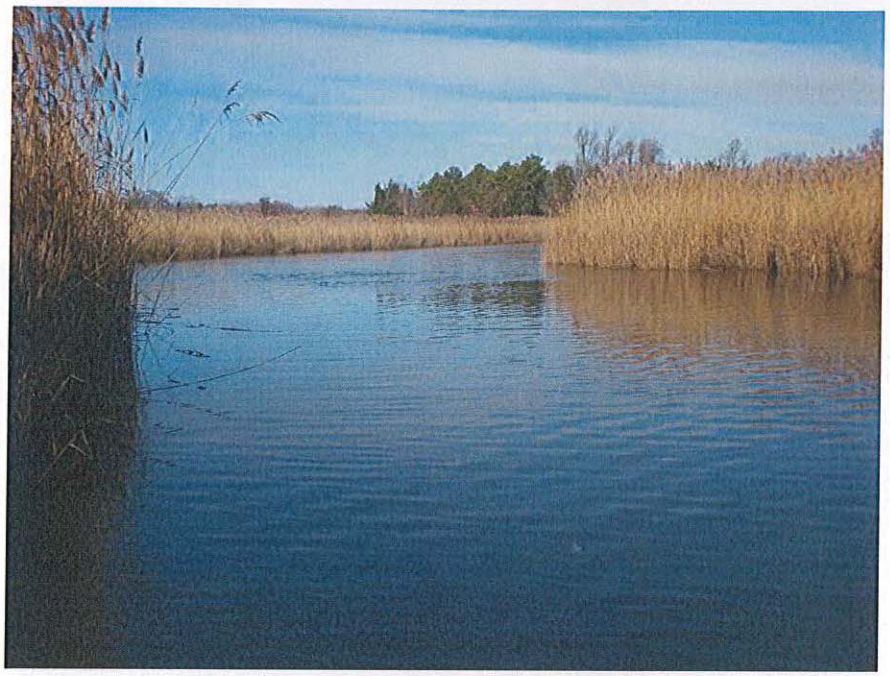
- The concrete fascia girders are in poor condition with heavy spalling and significant section loss of exposed reinforcing steel.
- The underside of the deck is in poor condition, showing deterioration in the areas that match the repair areas from the 1996 rehabilitation plans. The repaired areas from 1996 have more than 90% failed. In addition, there are more areas of deterioration, including cracks to the bottom of the beams, spalled areas of deck and rust stains.
- The approach and bridge joints are cracked with uneven pavement.
- Both sidewalks are in poor condition with patches the entire bridge length.

General View of Bridge – Looking East

General View of Bridge – Looking West

General view of bridge – looking north

Elevation View – Looking south



Looking North from North side of bridge

Looking west – general view of top of bridge

Fascia Beam A – Looking Northeast

Sidewalk support beam – looking east – north side of bridge

Fascia beam – Looking Southwest

Fascia beam H – Looking North

Between beams F and E - Looking East

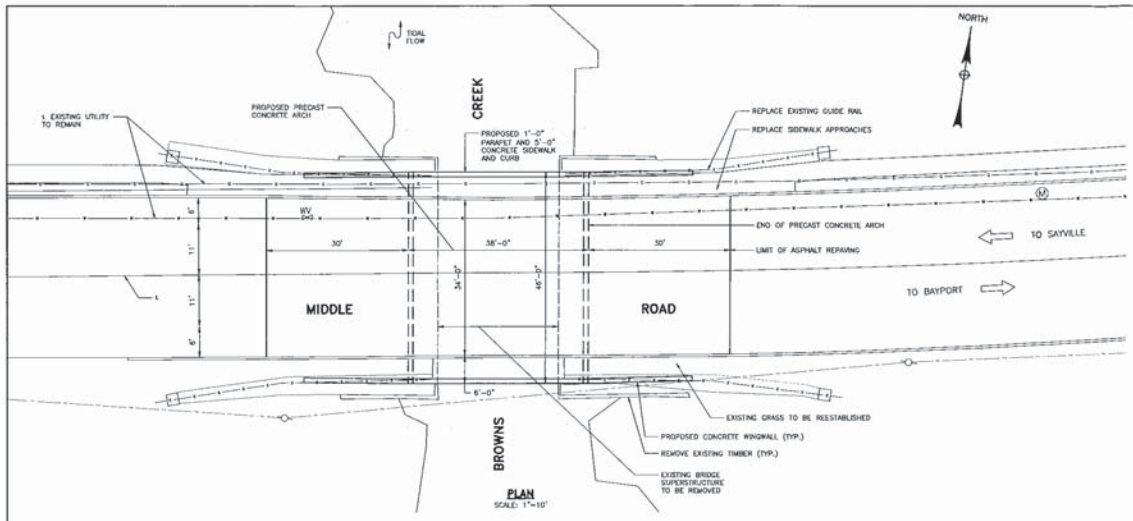
Bottom of Deck between D and E

Parapet beam - South Side - Looking North

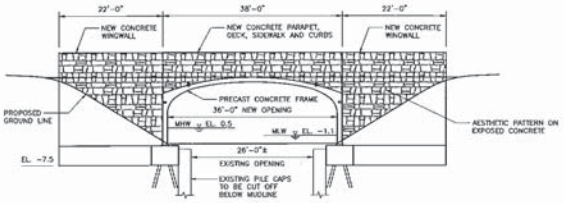
North fascia – Looking East

South side of bridge – looking east - cracked sidewalk

North side of bridge – looking west - cracked sidewalk



PLAN
SCALE: 1"=10'



ELEVATION
SCALE: 1"=10'

NOTES:

PRECAST CONCRETE FRAME FOUNDED ON PILE SUPPORTED FOOTING

PROJECT DESCRIPTION:

THIS PROJECT INVOLVES THE REPLACEMENT OF THE EXISTING BRIDGE IN ORDER TO ADDRESS THE STRUCTURAL NEEDS AND PROVIDE FOR THE LONGEST ANTICIPATED SERVICE LIFE. THE EXISTING DECK AND ALL TEE BEAMS WILL BE REPLACED WITH A PRECAST CONCRETE FRAME FOUNDED ON PILE SUPPORTED FOOTINGS. THE NEW FOOTINGS AND ABUTMENT WILL BE INSTALLED BEHIND THE EXISTING STRUCTURE IN EACH DIRECTION TO UTILIZE THE EXISTING ABUTMENTS AS A COFFERDAM. THIS WILL DECREASE CONSTRUCTION TIME.

THIS ALTERNATIVE CONSISTS OF A NEW PRECAST CONCRETE FRAME STRUCTURE ON CONCRETE FOOTING SUPPORTED BY PILES. THIS ALTERNATIVE HAS A TOTAL SPAN OF 38' AND A CLEAR OPENING OF 36'. A CAST-IN-PLACE CONCRETE FOOTING IS TO BE SUPPORTED ON 2 ROWS OF CONCRETE OR STEEL PILES. PRECAST CONCRETE WINGWALLS WOULD BE PLACED ALONGSIDE THE STRUCTURE. AFTER THE FOOTING AND WINGWALLS ARE CONSTRUCTED THE PRECAST FRAME SECTIONS WOULD BE PLACED ADJACENT TO ONE ANOTHER AND TIED TOGETHER. THE STRUCTURE WOULD BE BACKFILLED, A BITUMINOUS CONCRETE ROADWAY SECTION PLACED AND CONCRETE SIDEWALKS AND PARAPETS ADDED.

THE ADVANTAGES FOR THIS ALTERNATIVE ARE AS FOLLOWS:

ADVANTAGES:
1. PROVIDES FOR A TOTALLY NEW STRUCTURE WITH LONG EXPECTED LIFE SPAN.
2. LESS COSTLY OF ALTERNATIVES.
3. SIGNIFICANTLY LESS TIME REQUIRED TO CONSTRUCT.
4. PROVIDES INCREASED STREAM WIDTH AS RECOMMENDED BY NYSDEC.
5. WILL REQUIRE THE LEAST MAINTENANCE OF ANY OF THE ALTERNATIVES.
6. SHALLOW DEPTH PROVIDES FOR IMPROVED CLEARANCE OF EXISTING STRUCTURE.

ENVIRONMENTAL CONSIDERATIONS:

BRIDGE OPENING – THE LENGTH OF THE EXISTING BRIDGE IS 28'-4" WITH A CHANNEL OPENING OF 25'. IN DEVELOPING THE REPLACEMENT ALTERNATIVES, THE ORIGINAL PLAN WAS TO REESTABLISH A NEW BRIDGE WITH THE SAME LENGTH. THIS SPAN IS ADEQUATE AS THE CREEK IS TIDAL AND THERE IS LIMITED RANGE BETWEEN THE MEAN AND HIGH WATER LINES AND THERE IS ADEQUATE CLEARANCE ABOVE HIGH WATER. HOWEVER, AS THE NYSDEC WILL BE ISSUING PERMITS FOR CONSTRUCTION, WE HAVE DETERMINED THAT A WIDER BRIDGE OPENING WOULD MORE CLOSELY MEET THEIR OBJECTIVES FOR STREAM CROSSINGS. AS INDICATED IN THE NYSDEC STREAM CROSSING GUIDELINES, STREAM CROSSINGS SHOULD CONSIST OF A BOTTOMLESS ARCH THAT HAS AN OPENING AT LEAST 1.25 TIMES THE WIDTH OF THE STREAM CHANNEL BED AND THE WATER DEPTH SHOULD BE THE SAME AS THEY ARE IN NATURAL AREAS BOTH UPSTREAM AND DOWNSTREAM. BASED ON THIS INFORMATION, THE MINIMUM PREFERRED OPENING WIDTH SHOULD BE 31' OR GREATER.

WETLAND DELINEATIONS – DUE TO THE OVERGROWN NATURE OF THE SITE, THE TIDAL WETLAND BOUNDARY WAS DELINEATED UTILIZING THE 2010 NEW YORK STATE GIS CLEARINGHOUSE ORTHOIMAGERY. BASED ON COMPARISON OF THIS IMAGERY TO THE TOPOGRAPHIC CONTOUR MAP OF THE PROJECT AREA, THE TIDAL WETLAND BOUNDARY UPSTREAM OF THE BRIDGE CORRESPONDS GENERALLY WITH THE TWO-FOOT ELEVATION CONTOUR, AND THE TIDAL WETLAND BOUNDARY DOWNSTREAM OF THE BRIDGE CORRESPONDS GENERALLY WITH THE ONE-FOOT ELEVATION CONTOUR. THE DISPARITY IN THE ELEVATIONS OF THE BOUNDARIES UPSTREAM VS. DOWNSTREAM OF THE BRIDGE IS ATTRIBUTED TO TIDAL RESTRICTION. THE TIDAL WETLAND IN THE VICINITY OF SITE IS A LOW-VALUE SOUTH SHORE SALT MARSH DOMINATED BY A WELL-ESTABLISHED PHRAGMITES MONOCULTURE. THIS ALTERNATIVE SHOULD IMPROVE TIDAL FLOW BY REDUCING THE CURRENT TIDAL RESTRICTION CAUSED BY THE EXISTING BRIDGE.

CONSTRUCTION IMPACTS – THE CONSTRUCTION IMPACTS FOR THIS ALTERNATIVE WILL BE TEMPORARY AND WILL NOT RESULT IN ANY LONG TERM ENVIRONMENTAL DAMAGE INCLUDING DAMAGE TO SIGNIFICANT WETLAND AREAS. THE IMPACTS FOR THIS ALTERNATIVE, WHICH REQUIRES REMOVAL AND REPLACEMENT OF THE SUBSTRUCTURE, WILL BE MORE DISRUPTIVE, INCLUDING HIGHER NOISE LEVELS (DURING PILE DRIVING), WILL REQUIRE FILL MATERIAL TO BE PLACED, WILL REQUIRE DEWATERING OPERATIONS BEHIND COFFERDAMS AND WILL CAUSE A GREATER AMOUNT OF SILT TO BE DISPLACED. TURBIDITY BARRIERS AND SILT FENCES WILL BE USED TO MITIGATE THESE IMPACTS. IN ADDITION, IT IS ANTICIPATED THAT THE EXISTING TIMBER SHEETING CAN BE UTILIZED AS A COFFERDAM AND MUCH OF THE WORK CAN BE CONTAINED WITHIN IT.

SYMBOL	DESCRIPTION	APPROVED
	REVISIONS	

COUNTY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
YAPHANK, NEW YORK

GILBERT ANDERSON, P.E. – COMMISSIONER

LKB LOCKWOOD, KESSLER & BARTLETT, INC.
CONSULTING ENGINEERS SINCE 1909 SYOSSET, NEW YORK

REHABILITATION OF BROWNS CREEK BRIDGE

BRIDGE PLAN AND ELEVATION

PROJECT NO.	SCALE	DWG. NO.	SHEET NO.
5850	1"=10'	S5	5 OF 7

PRELIMINARY DESIGN

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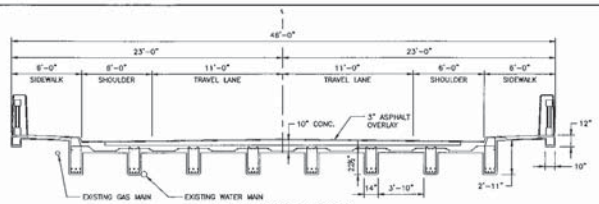
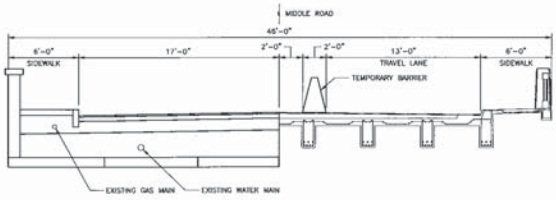
Plotted By: Jeffrey Sikes



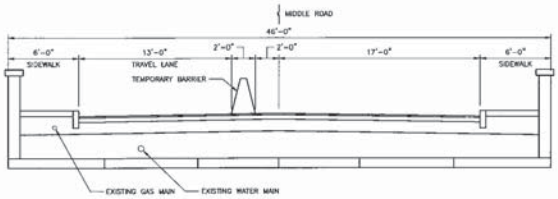
EXISTING BRIDGE SECTION (LOOKING EAST)

SCALE: 1/4"=1'-0"



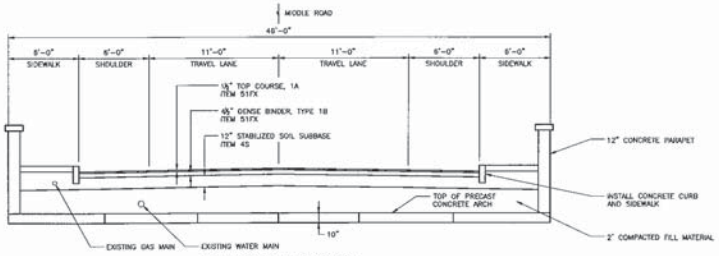
STAGE 1

SCALE: 1/4"=1'-0"



STAGE 2

SCALE: 1/4"=1'-0"



PROPOSED BRIDGE SECTION

SCALE: 1/4"=1'-0"

SYMBOL	DESCRIPTION	APPROVED
	REVISIONS	

COUNTY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
YAPHANK, NEW YORK

GILBERT ANDERSON, P.E. – COMMISSIONER

LKB LOCKWOOD, KESSLER & BARTLETT, INC.
CONSULTING ENGINEERS SINCE 1966 SYOSSET, NEW YORK

REHABILITATION OF BROWNS CREEK BRIDGE

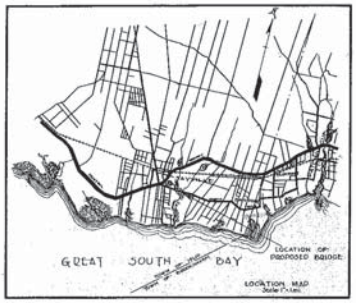
SEQUENCE OF CONSTRUCTION

PROJECT NO.	SCALE	DWG. NO.	SHEET NO.
---	1/4"=1'-0"	S6	6 OF 7

PRELIMINARY DESIGN

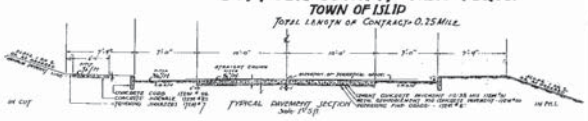
File Name: L:\projects\3434.00 reduction of browns creek bridge\cad\sheets\3434-00- sequence of construction.dwg
Plotted: 07/27/12 - 12:42 PM
Plotted By: Erica Wing Sun

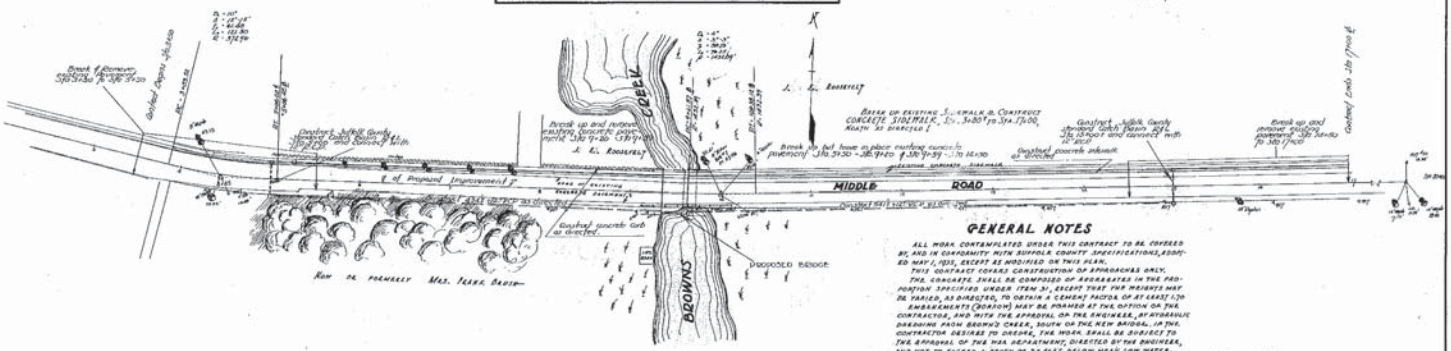
OFFICE OF H.F. BISHOP
SUPERINTENDENT OF HIGHWAYS,
SUFFOLK COUNTY, NEW YORK.
WESTHAMPTON BEACH, L.I. 7-1936



PLAN SHOWING PROPOSED RECONSTRUCTION OF THE APPROACHES TO BROWNS CREEK BRIDGE,

SAYVILLE
SUFFOLK COUNTY, NEW YORK.
TOWN OF ISLIP
Total Length of Contract - 0.25 Mile.





GENERAL NOTES

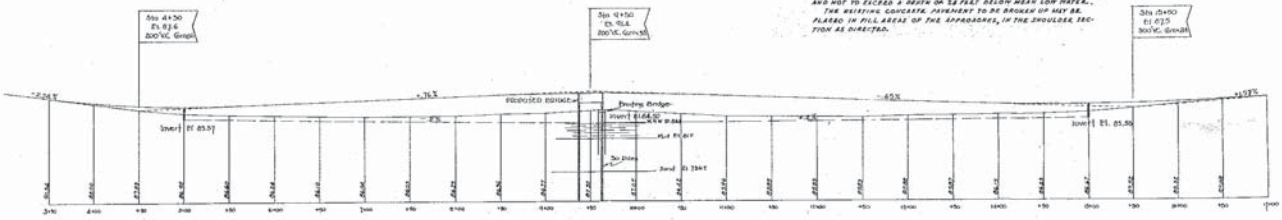
ALL WORK CONTEMPLATED UNDER THIS CONTRACT TO BE COVERED BY, AND IN CONFORMITY WITH SUFFOLK COUNTY SPECIFICATIONS, ADOPTED MAY 1, 1935, EXCEPT AS MODIFIED ON THIS PLAN.

THIS CONTRACT COVERS CONSTRUCTION OF APPROACHES ONLY.

THE CONCRETE SHALL BE COMPOSED OF AGGREGATES IN THE PROPORTION SPECIFIED UNDER ITEM 31, EXCEPT THAT THE AMOUNTS MAY BE VARIED, AS DIRECTED, TO OBTAIN A CEMENT FACTOR OF AT LEAST 4.70

EMBANKMENTS (BORROW) MAY BE FORMED AT THE OPTION OF THE CONTRACTOR, AND WITH THE APPROVAL OF THE ENGINEER, BY HYDRAULIC DREDGING FROM BROWN'S CREEK, SOUTH OF THE NEW BRIDGE. IN THIS CONTRACTOR DESIRES TO DREDGE, THE WORK SHALL BE SUBJECT TO THE APPROVAL OF THE WPA DEPARTMENT, DIRECTED BY THE ENGINEER, AND NOT TO EXCEED A DEPTH OF 12 FEET BELOW MEAN LOW WATER.

THE EXISTING CONCRETE PAVEMENT TO BE BROKEN UP MAY BE PLACED IN FILL AREAS OF THE APPROACHES, IN THE SHOULDER SECTION AS DIRECTED.



Plan Scale: 1 inch = 50 feet.
Profile Scale: Horiz. - 1 inch = 50 feet
Vertic. - 1 inch = 10 feet

DESIGN BY - WPA
DRAWN BY - WPA
TRACED BY - WPA
CHECKED BY - AJR
CHECKED BY - AJR
CHECKED BY - AJR

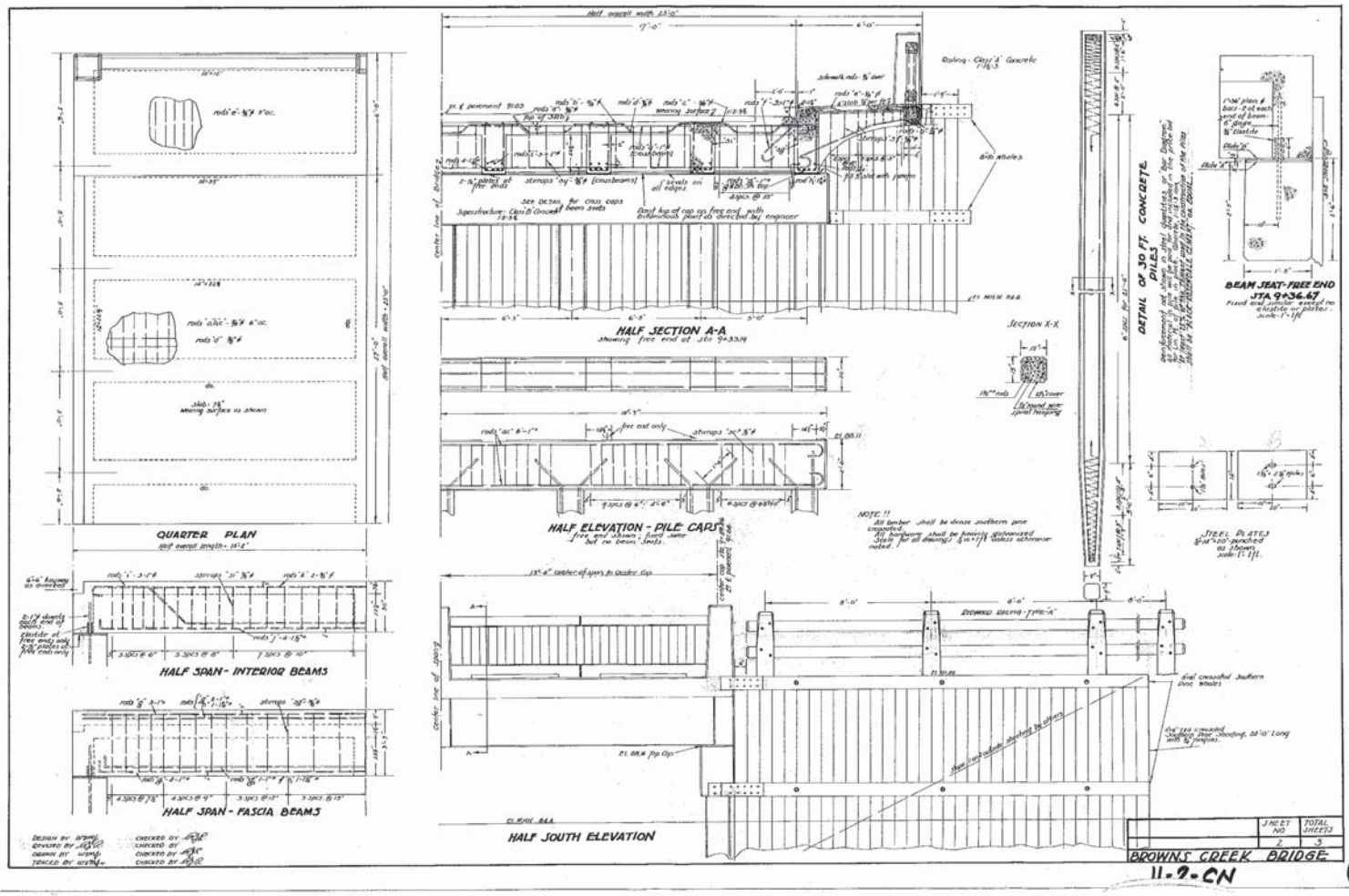
Approved Sept 6, 1936, by H.F. Bishop
Superintendent of Highways, Suffolk County, N.Y.

SHEET NO.	TOTAL SHEETS
1	1

BROWN'S CREEK BRIDGE APPROACHES

11-1-CN

14

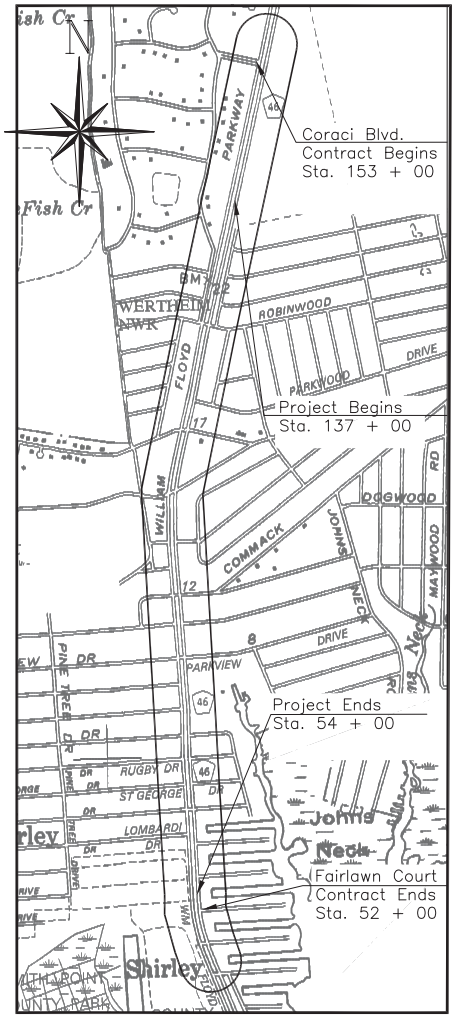

QUARTER PLAN
HALF SPAN - INTERIOR BEAMS
HALF SPAN - FASCIA BEAMS
HALF SECTION A-A
HALF ELEVATION - PILE CAPS
HALF SOUTH ELEVATION
DETAIL OF 30 FT. CONCRETE PILES
BEAM SEAT-FREE END
STA 9+36.67
STEEL PLATES
SECTION X-X
NOTE !!
SHEET NO
TOTAL SHEETS
BROWNS CREEK BRIDGE

11-2-CN

CR 46 - William Floyd Parkway Median Improvements

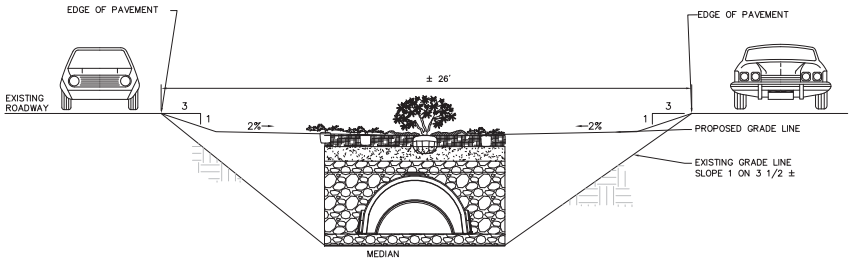
Suffolk County, New York

EXISTING CONDITIONS

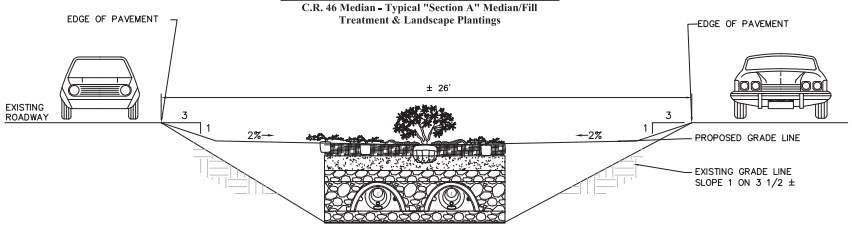


LOCATION MAP
SCALE 1" = 1000'

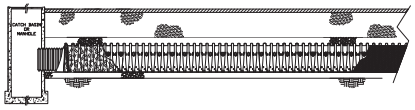
PROPOSED CONDITIONS



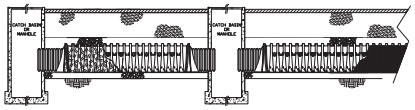
C.R. 46 Median - Typical "Section A" Median/Fill Treatment & Landscape Plantings



C.R. 46 Median - Typical "Section B" Median/Fill Treatment & Landscape Plantings



Typical Profile 1



Typical Profile 2

VHB

\\vhb\proj\Longisland\27640.00\cad\ls\planset\CEG Exhibit Board.dwg

Project ID:

SUFFOLK COUNTY
SHORT ENVIRONMENTAL ASSESSMENT FORM
For UNLISTED ACTIONS Only
6 NYCRR Part 617.20
STATE ENVIRONMENTAL QUALITY REVIEW

Part I-PROJECT INFORMATION (to be completed by Applicant or Project Sponsor)

1. APPLICANT /SPONSOR
Suffolk County Department of Public Works c/o VHB Engineering, Surveying and Landscape Architecture, P.C.

2. PROJECT NAME
Suffolk County Capital Project No. CP5116 C.R. 46 (William Floyd Parkway) Safety Improvements

3. PROJECT LOCATION
Municipality hamlet of Mastic Beach
County Suffolk County

4. PRECISE LOCATION (Street address and road intersections, prominent landmarks, etc., or provide map)
C.R. 46 between Coraci Boulevard and Fairlawn Court

5. IS PROPOSED ACTION:
☐ New ☐ Expansion ☒ Modification /alteration

6. DESCRIBE PROJECT BRIEFLY: Safety improvements and flood mitigation including installation of stormwater storage chambers, regrading of the center median and installation of landscaping.

7. AMOUNT OF LAND AFFECTED:
Initially 5± acres Ultimately 5± acres

8. WILL PROPOSED ACTION COMPLY WITH EXISTING ZONING OR OTHER LAND USE RESTRICTIONS?
☒ Yes ☐ No If No, describe briefly

9. WHAT IS PRESENT LAND US IN VICINITY OF PROJECT?
☒ Residential ☐ Industrial ☒ Commercial ☐ Agriculture ☒ Park/Forest/Open Space ☐ Other
Describe: Single-family dwellings, retail stores, golf course, parks and woodlands.

10. DOES ACTION INVOLVE A PERMIT APPROVAL, OR FUNDING, NOW OR ULTIMATELY FROM ANY OTHER GOVERNMENTAL AGENCY (FEDERAL, STATE OR LOCAL)?
☒ Yes ☐ No If yes, list agency(s) and permit/approvals Construction Activity Permit

11. DOES ANY ASPECT OF THE ACTION HAVE A CURRENTLY VALID PERMIT OR APPROVAL?
☐ Yes ☒ No If yes, list agency name and permit/approval

12. AS A RESULT OF PROPOSED ACTION WILL EXISTING PERMIT/APPROVAL REQUIRE MODIFICATION?
☐ Yes ☒ No

I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor Name: David Kennedy, VHB Engineering, Surveying and Landscape Architecture, P.C. Date: April 30, 2012

Signature:

If the action is in the Coastal Area, and you are a state agency, complete the Coastal Assessment Form before proceeding with this assessment

Continue to Part II

PART II - ENVIRONMENTAL ASSESSMENT (To be completed by Agency)

A. DOES ACTION EXCEED ANY TYPE I THRESHOLD IN 6 NYCRR, PART 617.4? If yes, coordinate the review process and use the FULL EAF.
☐ yes ☒ No Comment:

B. WILL ACTION RECEIVE COORDINATED REVIEW AS PROVIDED FOR UNLISTED ACTIONS IN 6 NYCRR, PART 617.6? If No, a negative declaration may be superseded by another involved agency.
☒ yes ☐ No

C. COULD ACTION RESULT IN ANY ADVERSE EFFECTS ASSOCIATED WITH THE FOLLOWING: (Answers may be handwritten, if legible)

C1. Existing air quality, surface or groundwater quality or quantity, noise levels, existing traffic patterns, solid waste production or disposal, potential or erosion, drainage or flooding problems?
Explain briefly: Improvements to existing erosion, drainage and flooding conditions are anticipated. No significant adverse impacts to the remaining items are anticipated.

C2. Aesthetic, agricultural, archaeological, historic, or other natural or cultural resources; or community or neighborhood character?
Explain briefly: As the proposed action involves improvements to existing infrastructure, no significant adverse impacts to these items are anticipated.

C3. Vegetation or fauna, fish, shellfish or wildlife species, significant habitats, or threatened or endangered species?
Explain briefly: No significant adverse impacts are anticipated.

C4. A community's existing plans or goals as officially adopted, or a change in use or intensity of use of land or other natural resources?
Explain briefly: No changes to existing community plans, goals, land use or natural resource uses intensity are proposed and no significant adverse impacts to same are anticipated.

C5. Growth, subsequent development, or related activities likely to be induced by the proposed action?
Explain briefly: No significant adverse impacts to these activities have been identified as a result of the proposed action.

C6. Long term, short term, cumulative, or other effects not identified in C1-C5?
Explain briefly: No additional effects have been identified.

C7. Other impacts (including changes in use of either quantity or type of energy)?
Explain briefly: No such impacts have been identified.

D. WILL THE PROJECT HAVE AN IMPACT ON THE ENVIRONMENTAL CHARACTERISTICS THAT CAUSED THE ESTABLISHMENT OF A CEA?
☐ yes ☒ No If Yes, explain briefly:

E. IS THERE, OR IS THERE LIKELY TO BE, CONTROVERSY RELATED TO POTENTIAL ADVERSE ENVIRONMENTAL IMPACTS?
☐ yes ☒ No If Yes, explain briefly:

PART III - DETERMINATION OF SIGNIFICANCE (To be completed by Agency)

INSTRUCTIONS: For each adverse effect identified above, determine whether it is substantial, large, important or otherwise significant. Each effect should be assessed in connection with its (a) setting (i.e. urban or rural); (b) probability of occurring; (c) duration; (d) irreversibility; (e) geographic scope; and (f) magnitude. If necessary, add attachments or reference supporting materials. Ensure that explanations contain sufficient detail to show that all relevant adverse impacts have been identified and adequately addressed.

☐ Check this box if you have identified one or more potentially large or significant adverse impacts which **MAY** occur. Then proceed directly to the **FULL EAF** and/or prepare a positive declaration.

☒ Check this box if you have determined, based on the information and analysis above and any supporting documentation, that the proposed action **WILL NOT** result in any significant adverse environmental impacts **AND** provide on attachments as necessary, the reasons supporting this determination:

Suffolk County Department of Public Works
Name of Lead Agency

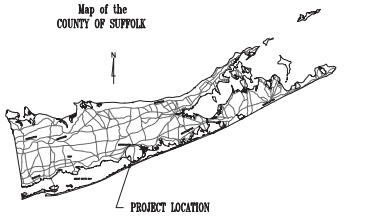
William Hillman, P.E.
Print or Type Name of Responsible Officer in Lead Agency

Chief Engineer
Title of Responsible Officer

Signature of Responsible Officer in Lead Agency

Signature of Preparer (if different from responsible officer)

May 2, 2012
Date



NOT TO SCALE

THIS PROJECT IS LOCATED ON C.R. 46 – WILLIAM FLOYD PARKWAY FROM CORACI BOULEVARD TO THE SMITH POINT BRIDGE FOR A DISTANCE OF APPROXIMATELY 1.5 MILES IN THE TOWN OF BROOKHAVEN, SUFFOLK COUNTY, NEW YORK.

COUNTY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS

PLANS SHOWING

SAFETY AND MEDIAN IMPROVEMENTS
TO
C.R. 46 – WILLIAM FLOYD PARKWAY
IN THE VICINITY OF
CORACI BOULEVARD TO THE SMITH POINT BRIDGE
TOWN OF BROOKHAVEN, SUFFOLK COUNTY, N.Y.

40% Design Plans

CAPITAL PROJECT NO. 5116
LENGTH OF CONTRACT: 1.5 MILES

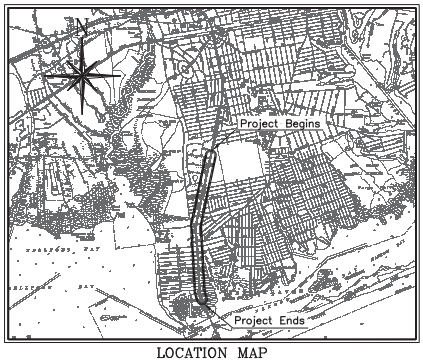
ALL WORK CONTEMPLATED UNDER THIS CONTRACT SHALL BE COVERED BY AND IN CONFORMITY WITH THE SPECIFICATIONS ADOPTED NOV. 1, 1968 AS AMENDED BY THE COMMISSIONER OF PUBLIC WORKS OF THE COUNTY OF SUFFOLK, N.Y. AND ENTITLED "PUBLIC WORKS SPECIFICATIONS" AS WELL AS THE GENERAL SPECIFICATIONS FOR TRAFFIC SIGNAL INSTALLATION, DATED JAN. 1980, AND THE ADDENDUM DATED JULY 1991 EXCEPT AS MODIFIED ON THIS PLAN AND IN THE PROPOSAL.

LETTING DATE: _____

CONTRACTOR: _____

ENGINEER IN CHARGE: _____

COMPLETION DATE: _____



LOCATION MAP
SCALE 1" = 5000'
5000 0 5000 10000
SCALE IN FEET

PREPARED UNDER ARTICLE 6 – SECTION 116 OF THE HIGHWAY LAW

APPROVED BY: _____ DATE: _____
WILLIAM HILLMAN, P.E., CHIEF ENGINEER

APPROVED BY: _____ DATE: _____
GILBERT ANDERSON P.E., COMMISSIONER OF PUBLIC WORKS

APPROVED BY: _____ DATE: _____
DEPUTY COUNTY EXECUTIVE

PREPARED AND RECOMMENDED BY:
VHB Engineering, Surveying and Landscape Architecture, P.C.
2150 Joshua's Path, Suite 300
Hauppauge, New York 11788
631.234.3444 • FAX 631.234.3477

APPROVED BY: _____ DATE: _____
BRUCE R. MAWHIRTER, P.E.

SUBMISSION DATE: 10/26/2010

GENERAL NOTES

1. The Datum used on this project is (TO BE CONFIRMED)
2. All slopes are to be trimmed and graded to meet existing ground conditions as directed by the Engineer. All areas disturbed by the construction shall be graded and finished as indicated on the Typical Sections or as directed by the Engineer.
3. The Contractor's attention is directed to the Golden Nematode quarantine of the New York State Department of Agriculture and Markets regulating the movements of top soil, machinery and equipment in Nassau and Suffolk Counties, and concerning the European Chafer regulating the movement of materials and equipment in or from Kings County. Detailed instruction and assistance in the necessary steam cleaning may be obtained from the field agent. Telephone (516)288–1751 or write the Dept. of Agriculture & Markets, 4 Stewart Ave. Westhampton Beach, New York 11978
4. The Contractor's attention is directed to the Vehicle and Traffic Law of the State of New York in regard to the size and weight of vehicles. The Contractor is hereby notified that no vehicle in excess of the limits set by the Vehicle and Traffic Law will be allowed on any public road.
5. The Contractor shall perform his work in such a manner and sequence as to maintain two–way traffic on existing roads while maintaining full access to adjacent private property. Temporary pavement and the associated warning devices shall be installed by the Contractor in accordance with the latest edition of the National Manual of Traffic Control Devices and the New York Supplement. The appropriate illustration in Subchapter "H" of said manual shall be applied for all detours and situations which interfere with traffic.
6. Any trench, pit or other excavation that is open and unattended shall be protected, as directed by the Engineer, with fence, barricades or another approved method. No direct payment will be made for this work. All excavations shall be conducted in compliance with New York Industrial Code Rule No. 23–1.33, 2–8, 53 and OSHA Safety and Health Standards (29 CFR 1926/1910).
7. At the completion of work covered by the contract, the Contractor shall clear all areas within the R.O.W. of construction debris to the satisfaction of the Engineer and leave the area in a neat, orderly condition.
8. Maintenance of traffic and the associate warning devices shall be installed by the Contractor in accordance with the latest edition of the National Manual of Traffic Control Devices and the New York Supplement.
9. Whenever items in the contract require material to be removed and disposed of, the cost of supplying a disposal area and transportation to that area shall be included in the unit price bid for those items.
10. All road metal on abandoned roadways shall be removed and the areas regraded, seeded as ordered by the Engineer.
11. Use of breaker ball will not be permitted.
12. No trees shall be removed unless so ordered by the Engineer.
13. Restore all driveways as directed by the Engineer.
14. Clear and grub as shown on plans or as directed by the Engineer.
15. Excavation of unsuitable material will be paid for under Item No. 2AS – "Unclassified Excavation", unless Item for "Unsuitable Material" is included in the contract.
16. Grade, place select material, seed and mulch as shown on plans or as directed. Use material available on site unless otherwise stated in the plan.
17. Retain all existing drainage structures and pipe, except as shown on plans or as ordered by the Engineer. Payment for cleaning existing drainage structures and pipes is to be included in the cost of other items unless otherwise stated in the plan.
18. Cutting Pavement and Sidewalk Item No. 205 will be paid only at the locations indicated on the plans or as ordered by the Engineer.
19. The Contractor's attention is directed to the RECLAIMED ASPHALT CONCRETE PAVEMENT (RAP) option as outlined in the project proposal.
20. The Contractor is advised that the plans and other contract documents have been prepared based on the best currently available field data. However, actual field conditions may vary requiring modifications to the construction details and work quantities. The Contractor shall advise the Engineer of variations in field conditions, and modify his work to conform to these conditions, as ordered by the Engineer.
21. The Contractor shall not work on both sides of the roadway in the same area at the same time unless approved by the Engineer.
22. Provisions for snow and ice removal operations
    In order to allow for snow and ice control by 'COUNTY' forces along the job site, the Contractor shall schedule work in accordance with the following:
    A. Interference with snow plowing operations by drums, barricades and other traffic control equipment shall be kept to a minimum. Any devices disturbed or damaged by snow and ice control operations shall be replaced and/or reset as necessary and as soon as possible by the contractor, costs included in Item 765X.
    B. Drainage frames, grates, and covers shall not be adjusted in travel lanes unless the final pavement course is to be placed prior to onset of snow and ice weather. If any of these protrusions exist in a non–travel lane prior to a snow and ice condition, then temporary asphalt ramps must be placed so that for every 1" of rise there is a 4' run of ramp.
    C. All pavement cuts shall be restored to be flush with the pavement to eliminate recessed areas where snow cannot be plowed.

LEGEND

DESCRIPTION	EXISTING	PROPOSED
CONCRETE PAVEMENT		
ASPHALT PAVEMENT (FULL DEPTH)		
RESURFACE EXISTING PAVEMENT		
ASPHALT MILLING		
TRENCH AND PAVEMENT REPAIR		
CONCRETE CURB & SIDEWALK WITH GRASS MALL		
DRAINAGE PIPE, MANHOLE & CATCH BASIN		
CHAIN LINK FENCE		
GUIDE RAIL		
BARRICADE		
ELEVATION IN PLAN	27.52	27.52
BENCH MARK		
BORING LOCATION		
TAKING LINES & EASEMENTS		EASEMENT LINE / TAKING LINE
CONTOUR LINES		

BUILDING FOUNDATION		DIRT DRIVEWAY OR ROAD		UNDERGROUND ELECTRIC AND MANHOLE	
SIGN, TRAFFIC, RR, ETC.		BUSH AND SHRUBS		UNDERGROUND TELEPHONE DUCT AND MANHOLE	
UTILITY POLE/GUY WIRE		TREE (SIZE & TYPE)		CONCRETE MONUMENT, AND RIGHT OF WAY LINE	
UTILITY POLE/LIGHT		HEDGE		WATER MAIN AND VALVE	
FIRE HYDRANT		EDGE OF WOODS		GAS MAIN AND VALVE	
LEACHING BASIN		EDGE OF WATER OR STREAM		SANITARY SEWER LINE AND MANHOLE	

STRUCTURE DESCRIPTION KEY

D,_____STRUCTURE TYPE
Z,_____CASTING TYPE
U,_____TOP SLAB TYPE

D–Z (8) Rim=
Inv.=

8,_____STRUCTURE NUMBER
Rim,_____ELEVATION OF RIM
Inv.,____INVERT ELEVATION OF PIPE

24. When new overlays are notched into the existing pavement at the limits of resurfacing, the Contractor shall either place the proposed asphalt within 48 hours of the milling or other preparation of the notch or shall place a temporary wedge of asphalt AOBE to eliminate the bump created by the notch. The cost of this work shall be included in the price bid for item 51FX.
25. Measures shall be taken to avoid spillage of asphalt concrete mix into storm grates. Any such material entering any grates shall be removed immediatly by the Contractor at his/her expense AOBE.
26. Remove plowable markers prior to commencing construction. Cost to be paid for under other Items.
27. Upon project completion, the area within the County Right of Way shall be cleaned thoroughly and free of all debris including, but not limited to plastic bottles, paper cups, etc. Additionally sidewalks, both existing and new, shall be swept and edged. All areas under guiderailing, signs, and appurtenances also shall be cleaned of debris. Payment for this cleaning shall be included in item 1SB.

INDEX

TITLE SHEET 1
NOTES, LEGEND AND INDEX 2
GENERAL PLANS 3–xx
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TYPICAL SECTIONS xx
MISCELLANEOUS DETAILS xx
DRAINAGE TABLE xx
MISCELLANEOUS TABLES xx
CONSTRUCTION PLAN AND PROFILE xx
SURVEY CONTROL PLAN xx
MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS xx

SPECIAL NOTES

THE CONTRACTOR'S ATTENTION IS DIRECTED TO UTILITIES IN THE AREA. THE CONTRACTOR SHALL SATISFY THEM SELF AS TO THE EXACT LOCATION OF ALL UTILITIES AND WILL TAKE EVERY PRECAUTION NOT TO DISTURB THEM.

THE CONTRACTOR SHALL BE AWARE THAT UTILITY RELOCATIONS OR HIGHWAY PERMIT CONSTRUCTION MAY PROGRESS WITHIN THE LIMITS OF THIS PROJECT DURING THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE WITH EACH UTILITY OR PERMITEE SHALL BE RESPONSIBLE FOR THE ALTERATION OR ADJUSTMENT OF FACILITIES WITHIN THE COUNTY RIGHT OF WAY, UNLESS OTHERWISE STATED IN THE PLANS AND SPECIFICATIONS. IN SUCH CASE THAT LACK OF RESPONSE FROM SUCH, MAY CAUSE A DELAY WITH RESPECT TO THE COMPLETION DATE, THE CONTRACTOR MUST NOTIFY THE ENGINEER IN WRITING SO THAT APPROPRIATE STEPS SHALL BE TAKEN.

UTILITY COMPANIES INVOLVED (BUT NOT LIMITED TO)

NATIONAL GRID/KEYSPAN	JOHN ASARO	(516) 545–5222
SCWA	JAMES WILSON	(631) 563–0343
VERIZON	STEVE SCANDURA	(631) 687–8417
CABLEVISION	R. SAVONA	(631) 727–6080

THE CONTRACTOR'S ATTENTION IS ALSO DIRECTED TO THE POSSIBILITY OF ENCOUNTERING GROUND WATER DURING EXCAVATION AND WILL PROCEED WITH THEIR WORK HAVING FULL KNOWLEDGE OF THIS FACT.

NOTES FOR PORTLAND CEMENT CONCRETE

COARSE AGGREGATE

Screened gravel will be permitted in concrete headwalls, catch basins, manholes and leaching structures.

STANDARD SHEETS

DESIGNED BY: AG
CHECKED BY: SRS
DRAWN BY: AG
COMPARED BY: JC

SYMBOL	DESCRIPTION	APPROVED	DATE
	REVISIONS		

COUNTY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
YAPHANK, NEW YORK

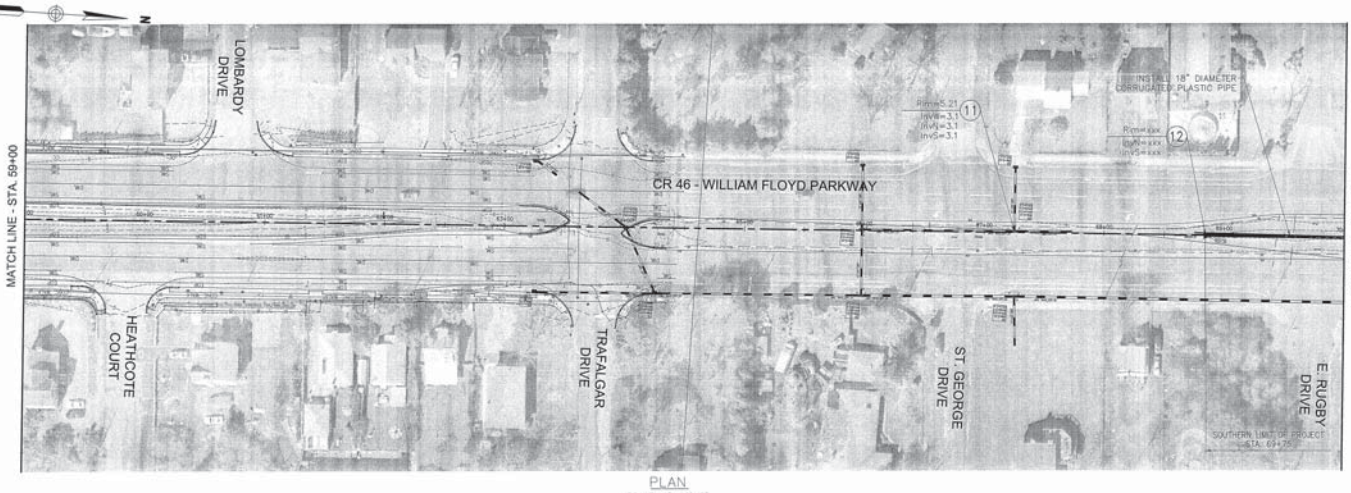
GILBERT ANDERSON, P.E. – COMMISSIONER

2150 Joshua's Path, Suite 300
Hauppauge, New York 11788
631.234.3444 • FAX 631.234.3477

CR 46– WILLIAM FLOYD PARKWAY
SAFETY AND MEDIAN IMPROVEMENTS

NOTES, LEGEND AND INDEX

PROJECT NO.	DATE	DWG. NO	SHEET NO.
5110	10/26/2010	GN–1	2 OF TS



PLAN
SCALE: 1"=40'-0"

40 0 40 80
SCALE IN FEET

COUNTY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
YAPHANK, NEW YORK

GILBERT ANDERSON, P.E. – COMMISSIONER

VHB Engineering, Surveying and Landscape Architecture, P.C.
2150 Sodom's Path, Suite 300
Hauppauge, New York 11788
631.234.3443 • FAX 631.234.3477

CR 46– WILLIAM FLOYD PARKWAY
SAFTEY AND MEDIAN IMPROVEMENTS

CONSTRUCTION PLAN 1

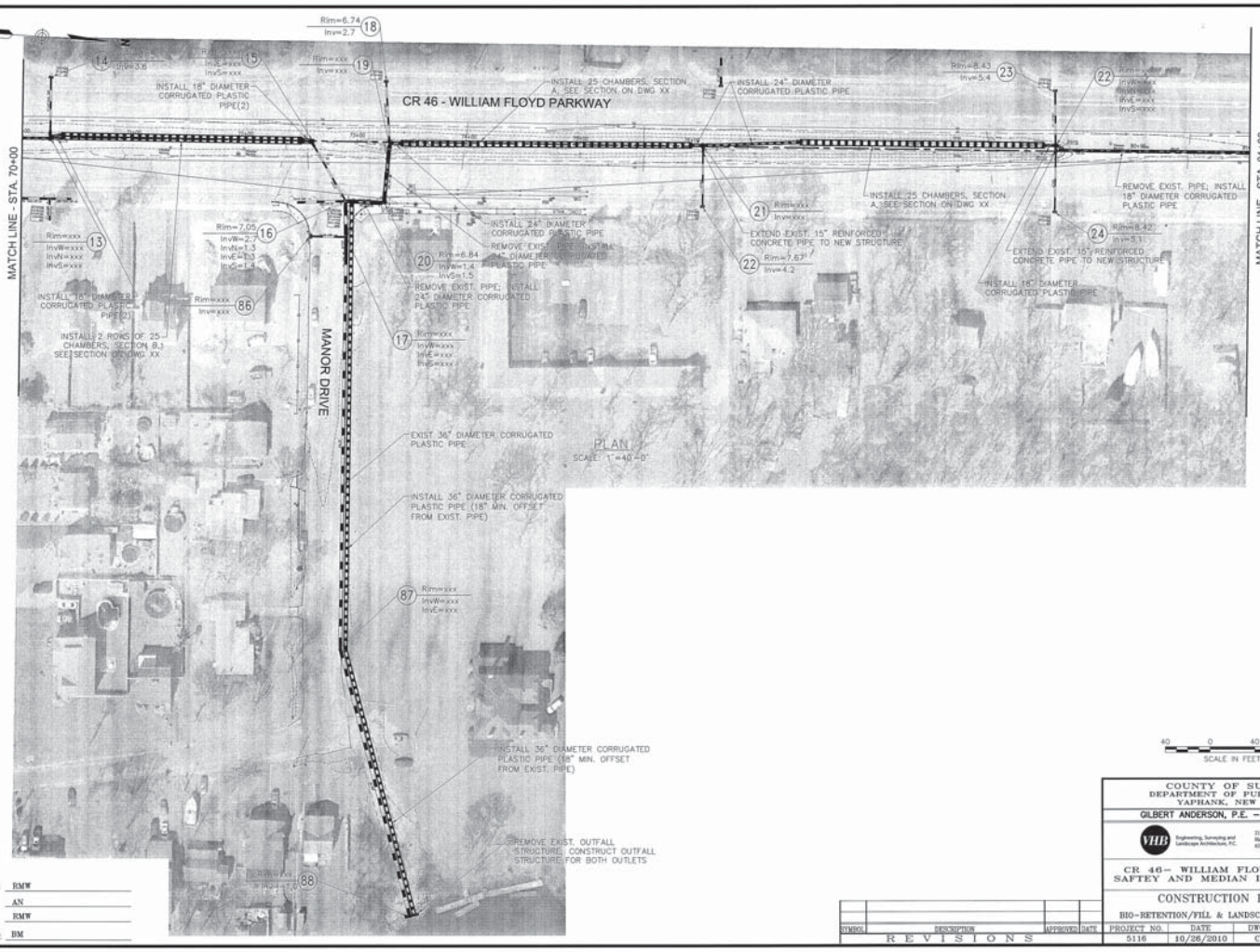
BIO-RETENTION/FILL & LANDSCAPING TREATMENT

PROJECT NO.	DATE	DWG. NO	SHEET NO.
5116	10/26/2010	CP-1	XX OF XX

DESIGNED BY: RMW
CHECKED BY: AN
DRAWN BY: RMW
COMPARED BY: BM

REVISIONS

SYMBOL	DESCRIPTION	APPROVED	DATE



DESIGNED BY: RMW
CHECKED BY: AN
DRAWN BY: RMW
COMPARED BY: BM

SYMBOL	DESCRIPTION	APPROVED	DATE
	REVISIONS		

COUNTY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
YAPHANK, NEW YORK

GILBERT ANDERSON, P.E. – COMMISSIONER

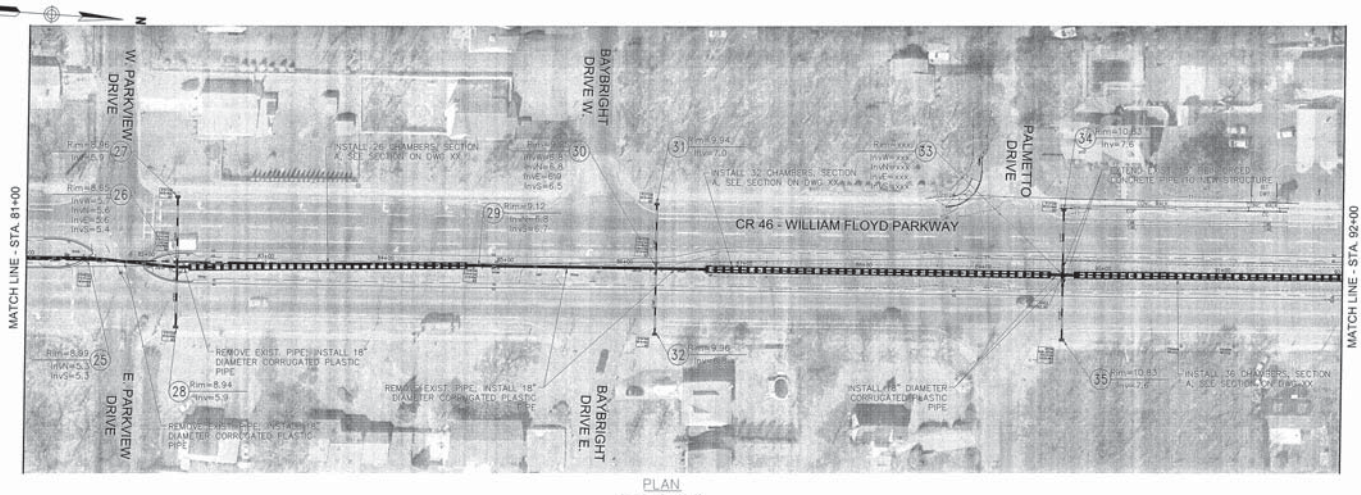
VHB Engineering, Surveying and Landscape Architecture, P.C.
2150 Joshua's Path, Suite 300
Hauppauge, New York 11788
631.234.3443 • FAX 631.234.3477

CR 46– WILLIAM FLOYD PARKWAY
SAFTEY AND MEDIAN IMPROVEMENTS

CONSTRUCTION PLAN 2

BIO-RETENTION/FILL & LANDSCAPING TREATMENT

PROJECT NO.	DATE	DWG. NO	SHEET NO.
5116	10/26/2010	CP-2	XX OF XX



PLAN
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PROFILE
SCALE HORIZ. 1"=20'-0"
VERT. 1"=2'-0"

40 0 40 80
SCALE IN FEET

COUNTY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
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CR 46– WILLIAM FLOYD PARKWAY
SAFTEY AND MEDIAN IMPROVEMENTS

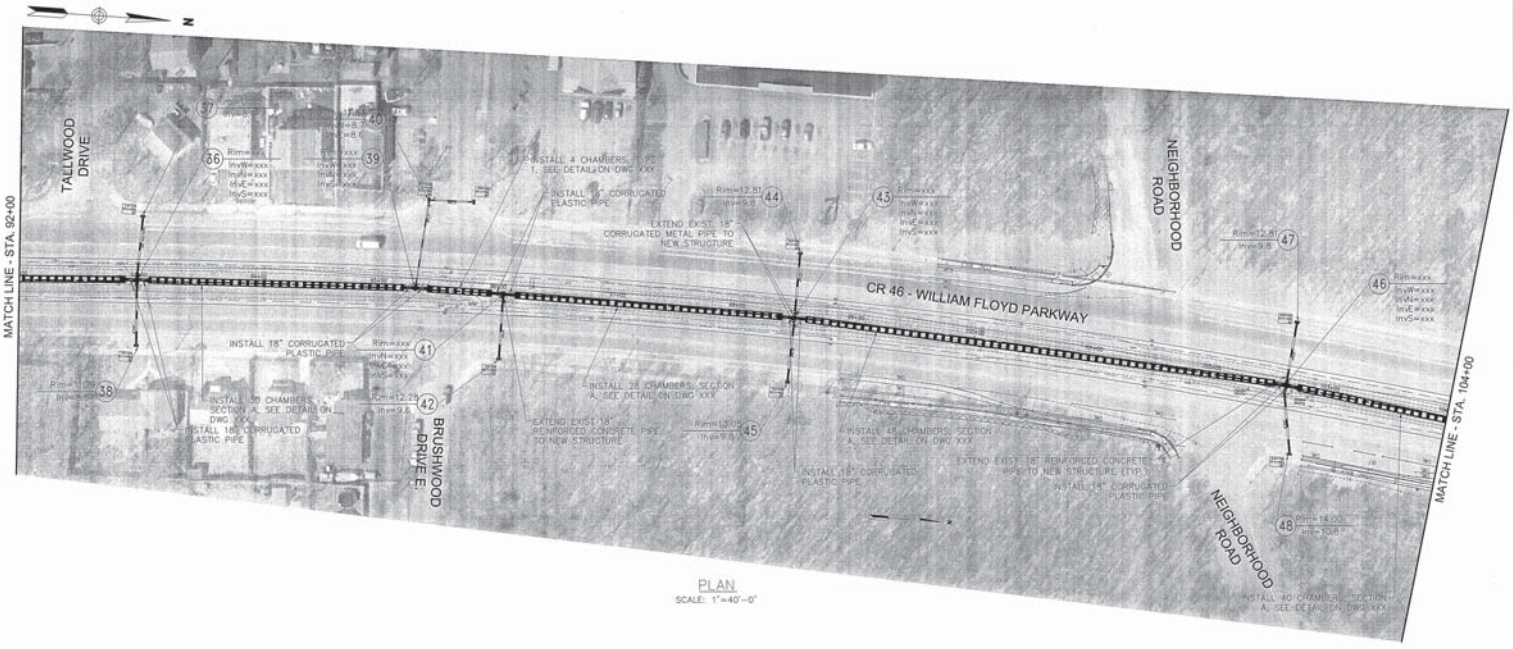
CONSTRUCTION PLAN 3

BIO-RETENTION/FILL & LANDSCAPING TREATMENT

PROJECT NO.	DATE	DWG. NO	SHEET NO.
5116	10/26/2010	CP-3	XX OF XX

SYMBOL	DESCRIPTION	APPROVED	DATE
	REVISIONS		

DESIGNED BY: RMW
CHECKED BY: AN
DRAWN BY: RMW
COMPARED BY: BM



PLAN
SCALE: 1"=40'-0"

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SCALE IN FEET

DESIGNED BY: RMW
CHECKED BY: AN
DRAWN BY: RMW
COMPARED BY: BM

SYMBOL	DESCRIPTION	APPROVED	DATE
	REVISIONS		

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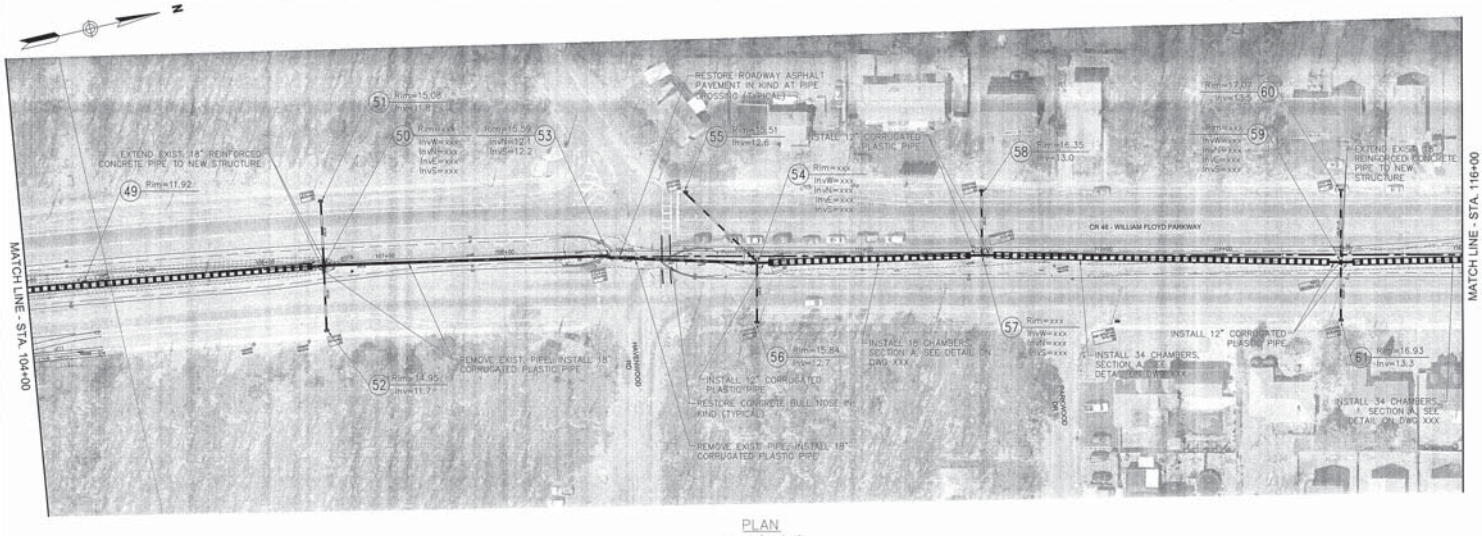
CONSTRUCTION PLAN 4
BIO-RETENTION/FILL & LANDSCAPING TREATMENT

PROJECT NO.	DATE	DWG. NO	SHEET NO.
5116	10/26/2010	CP-4	XX OF XX



PLAN
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SCALE IN FEET

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CONSTRUCTION PLAN 5

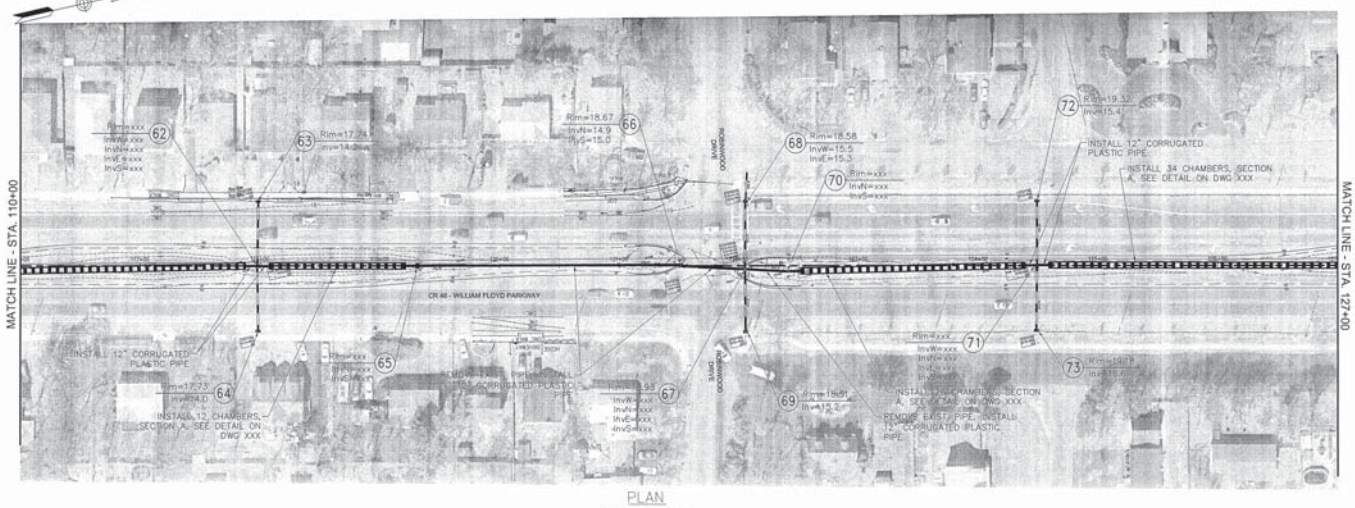
BIO-RETENTION/FILL & LANDSCAPING TREATMENT

PROJECT NO.	DATE	DWG. NO	SHEET NO.
5116	10/26/2010	CP-5	XX OF XX

DESIGNED BY: RMW
CHECKED BY: AN
DRAWN BY: RMW
COMPARED BY: BM

REVISIONS

SYMBOL	DESCRIPTION	APPROVED	DATE



PLAN
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SCALE IN FEET

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CONSTRUCTION PLAN 6

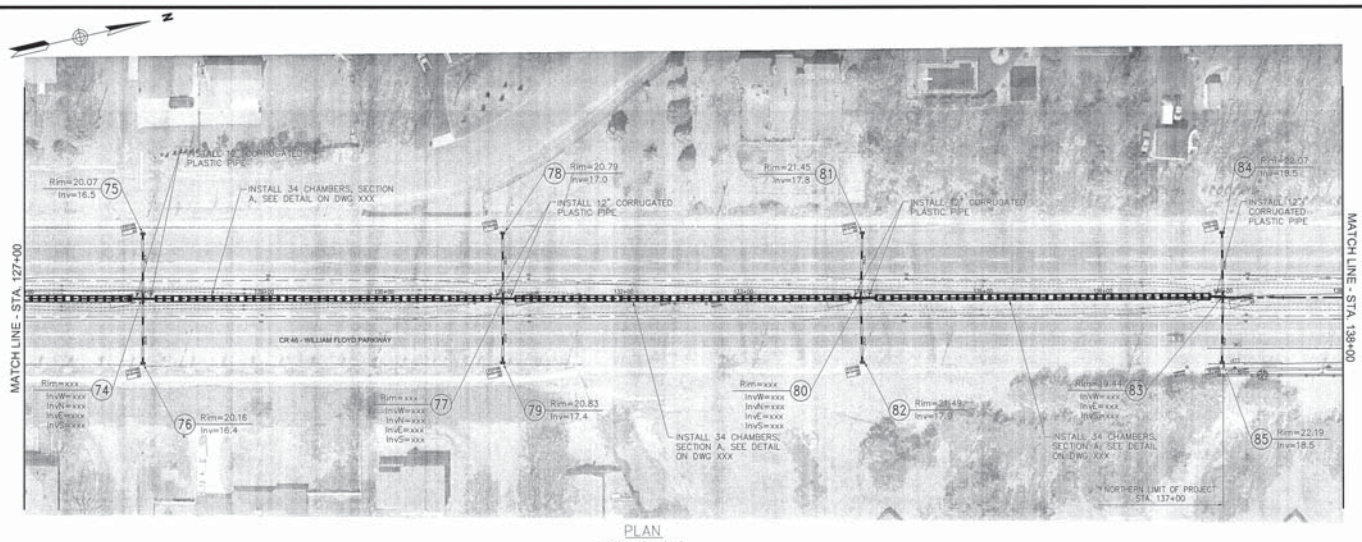
BIO-RETENTION/FILL & LANDSCAPING TREATMENT

PROJECT NO.	DATE	DWG. NO	SHEET NO.
5116	10/26/2010	CP-6	XX OF XX

DESIGNED BY: RMW
CHECKED BY: AN
DRAWN BY: RMW
COMPARED BY: BM

REVISIONS

SYMBOL	DESCRIPTION	APPROVED	DATE



PLAN

SCALE: 1"=40'-0"

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SCALE IN FEET

COUNTY OF SUFFOLK
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CONSTRUCTION PLAN 7

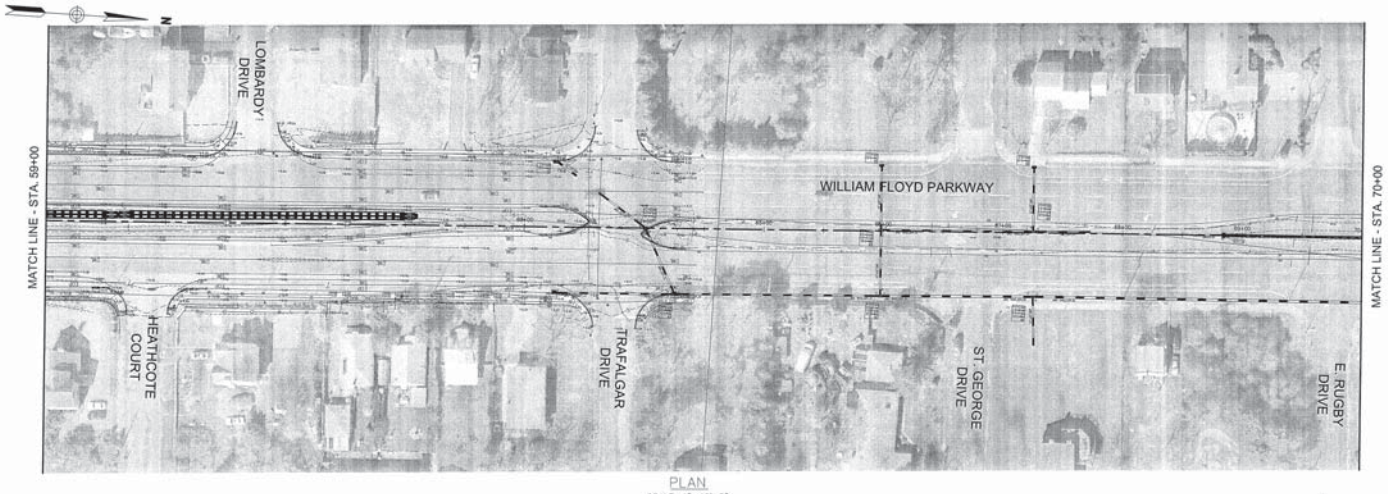
BIO-RETENTION/FILL & LANDSCAPING TREATMENT

PROJECT NO.	DATE	DWG NO.	SHEET NO.
5116	10/26/2010	CP-7	XX OF XX

DESIGNED BY: RMW
CHECKED BY: AN
DRAWN BY: RMW
COMPARED BY: BM

REVISIONS

SYMBOL	DESCRIPTION	APPROVED	DATE



PLAN
SCALE: 1"=40'-0"

40 0 40 80
SCALE IN FEET

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CR 46– WILLIAM FLOYD PARKWAY
SAFTEY AND MEDIAN IMPROVEMENTS

PLANTING PLAN 1

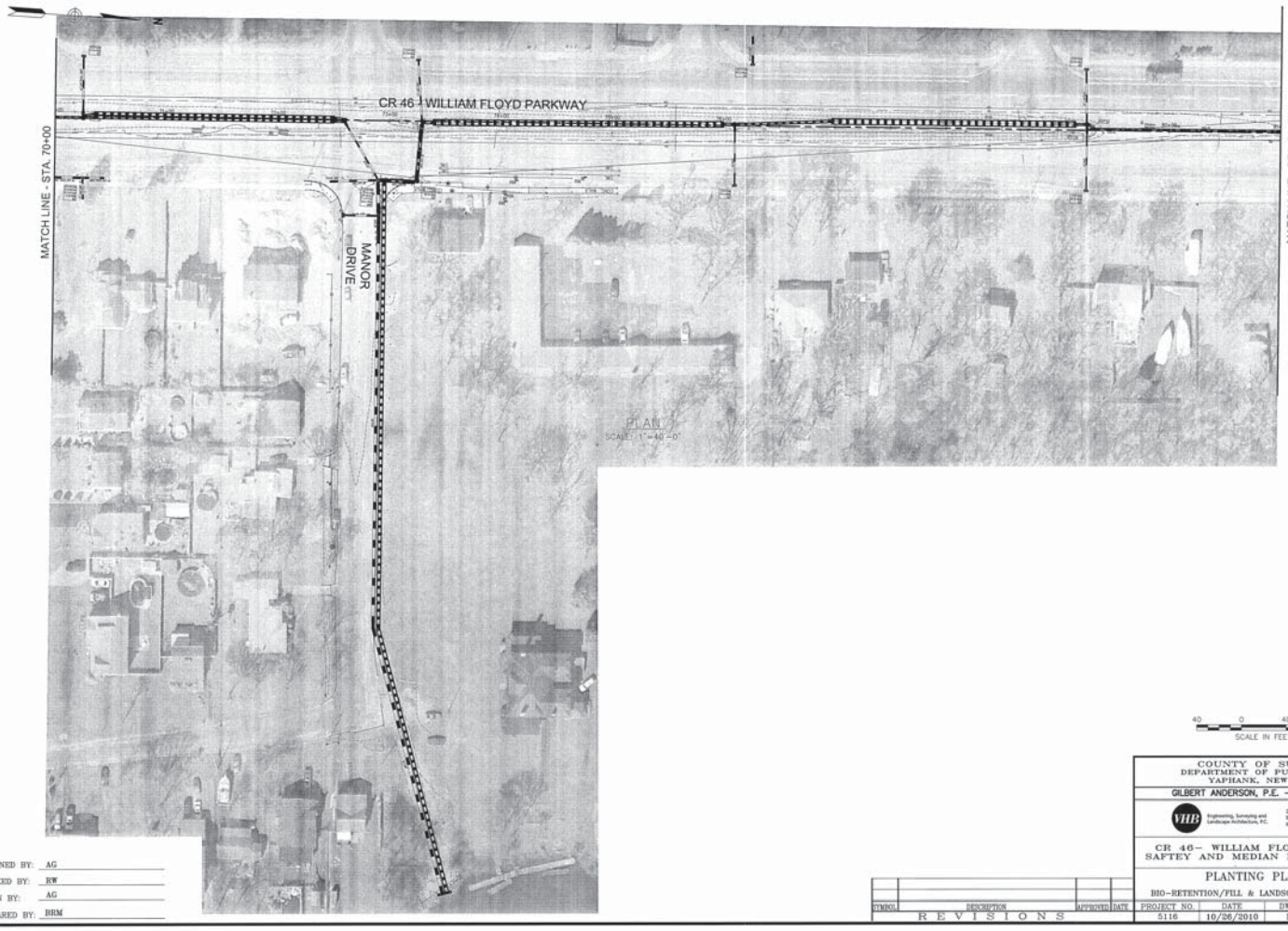
BIO-RETENTION/FILL & LANDSCAPING TREATMENT

PROJECT NO.	DATE	DWG. NO	SHEET NO.
5116	10/26/2010	LA-1	# OF TS

DESIGNED BY: AG
CHECKED BY: RW
DRAWN BY: AG
COMPARED BY: BRM

REVISIONS

SYMBOL	DESCRIPTION	APPROVED	DATE



40 0 40 80
SCALE IN FEET

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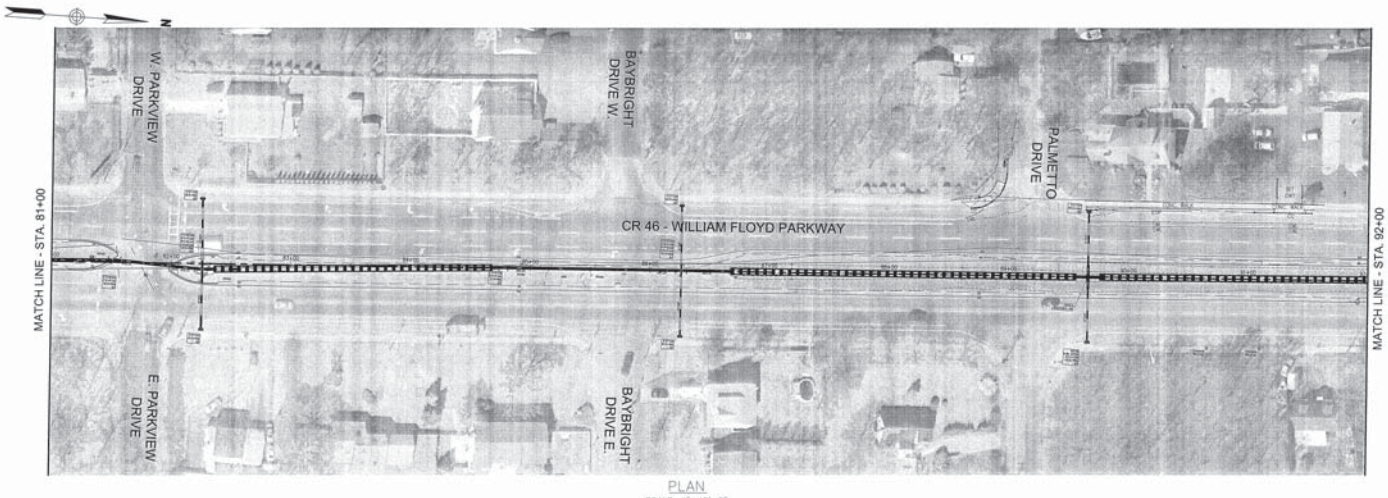
PLANTING PLAN 2

BIO-RETENTION/FILL & LANDSCAPING TREATMENT

PROJECT NO.	DATE	DWG. NO.	SHEET NO.
5116	10/06/2010	LA-2	# OF TS

SYMBOL	DESCRIPTION	APPROVED	DATE
	REVISIONS		

DESIGNED BY: AG
CHECKED BY: RW
DRAWN BY: AG
COMPARED BY: BRM



PLAN
SCALE: 1"=40'-0"

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SCALE IN FEET

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PLANTING PLAN 3

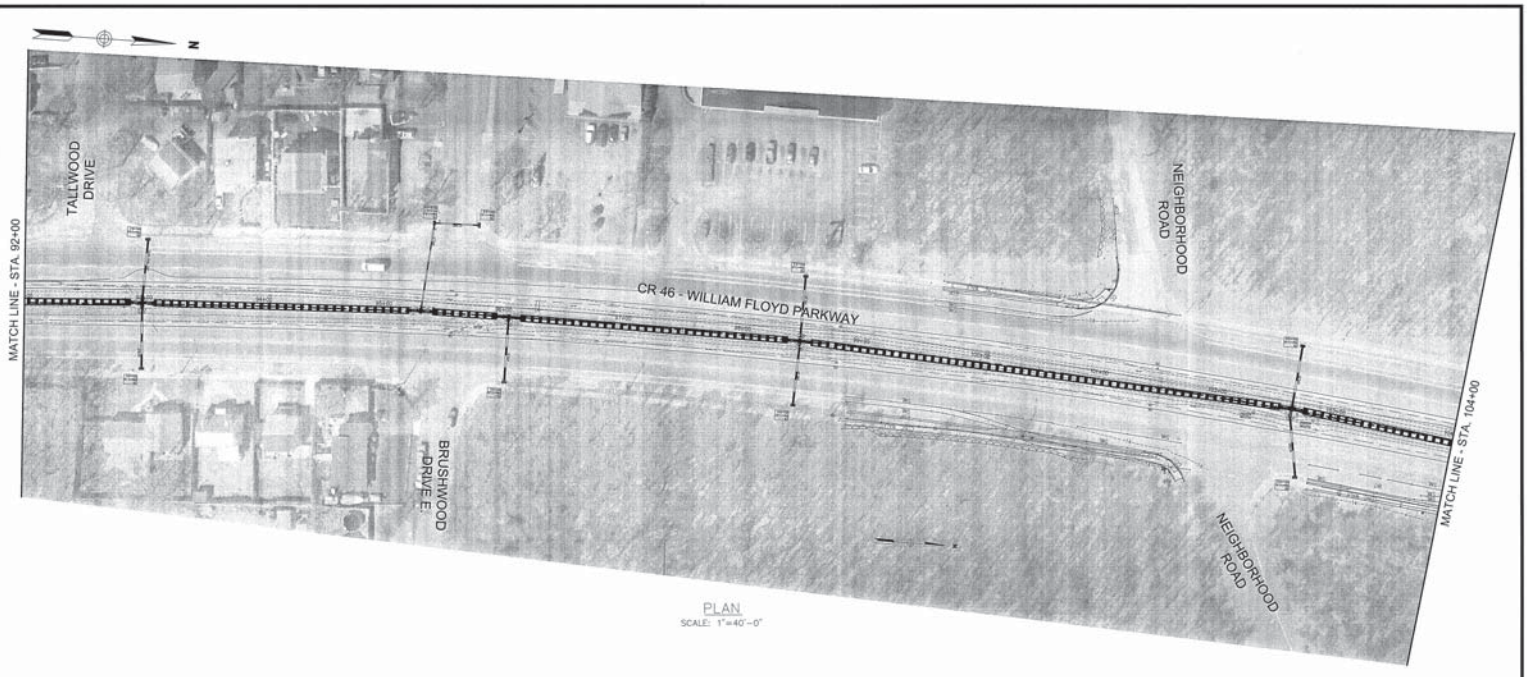
BIO-RETENTION/FILL & LANDSCAPING TREATMENT

PROJECT NO.	DATE	DWG. NO	SHEET NO.
5116	10/26/2010	LA-3	# OF TS

DESIGNED BY: AG
CHECKED BY: RW
DRAWN BY: AG
COMPARED BY: BRM

REVISIONS

SYMBOL	DESCRIPTION	APPROVED	DATE



PLAN
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SCALE IN FEET

DESIGNED BY: AG
CHECKED BY: HW
DRAWN BY: AG
COMPARED BY: BRM

SYMBOL	DESCRIPTION	APPROVED	DATE
	REVISIONS		

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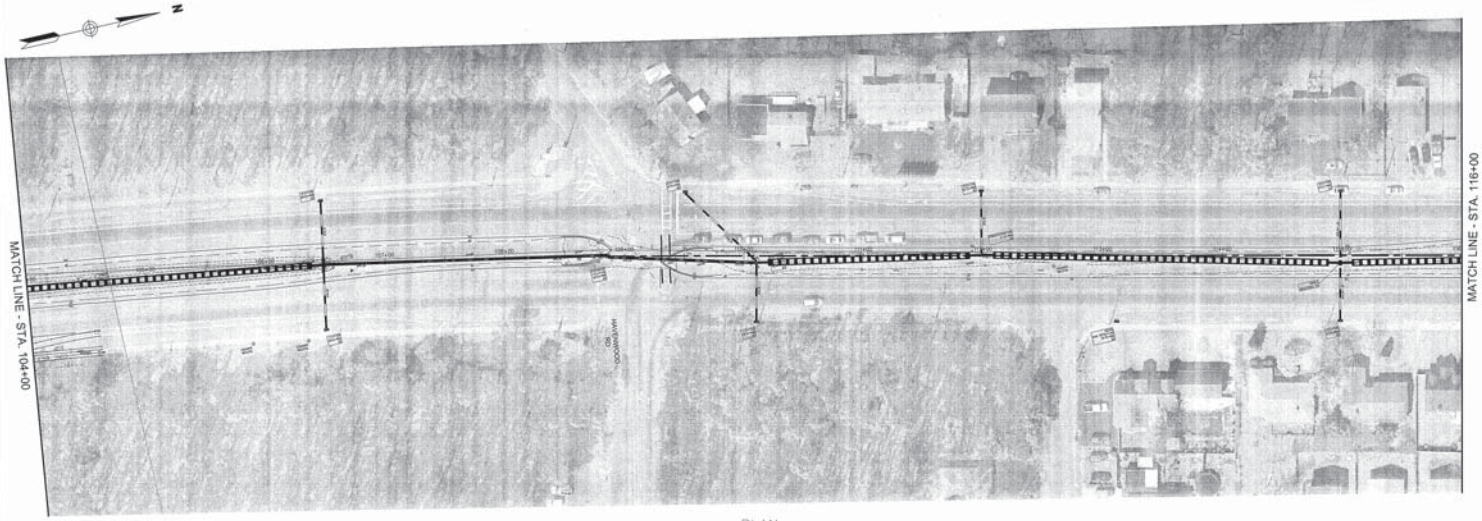
PLANTING PLAN 4
BIO-RETENTION/FILL & LANDSCAPING TREATMENT

PROJECT NO.	DATE	DWG. NO	SHEET NO.
5116	10/26/2010	LA-4	# OF TS



PLAN
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SCALE IN FEET

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PLANTING PLAN 5

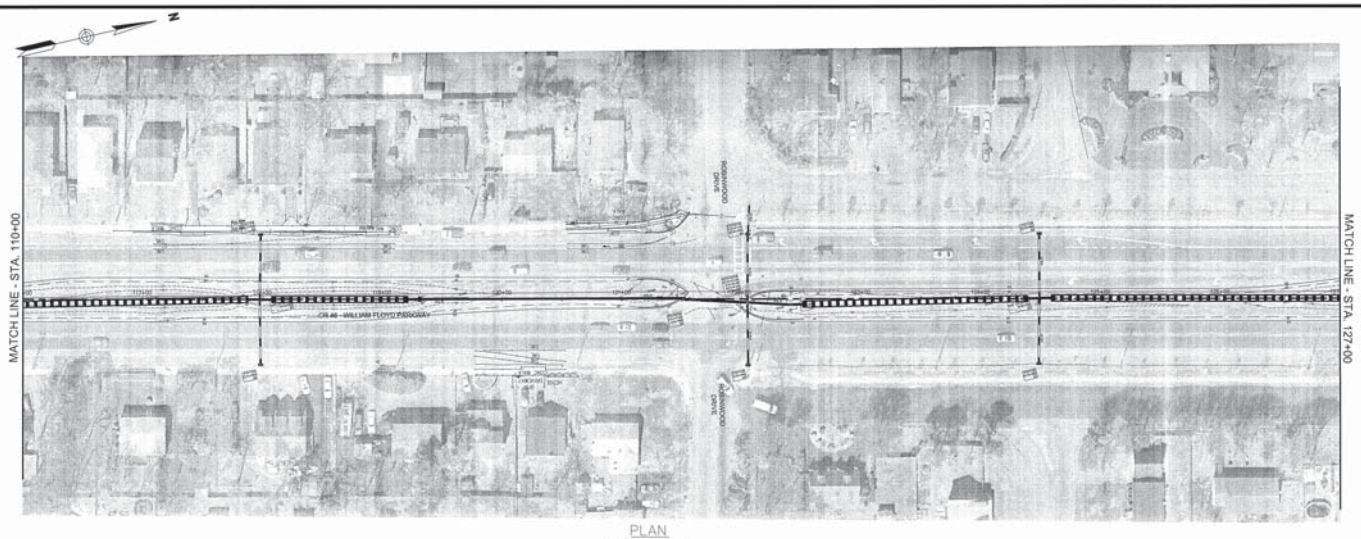
BIO-RETENTION/FILL & LANDSCAPING TREATMENT

PROJECT NO.	DATE	DWG. NO	SHEET NO.
5116	10/26/2010	LA-5	# OF TS

SYMBOL	DESCRIPTION	APPROVED	DATE

REVISIONS

DESIGNED BY: AG
CHECKED BY: RW
DRAWN BY: AG
COMPARED BY: BRM



PLAN
SCALE: 1"=40'-0"

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SCALE IN FEET

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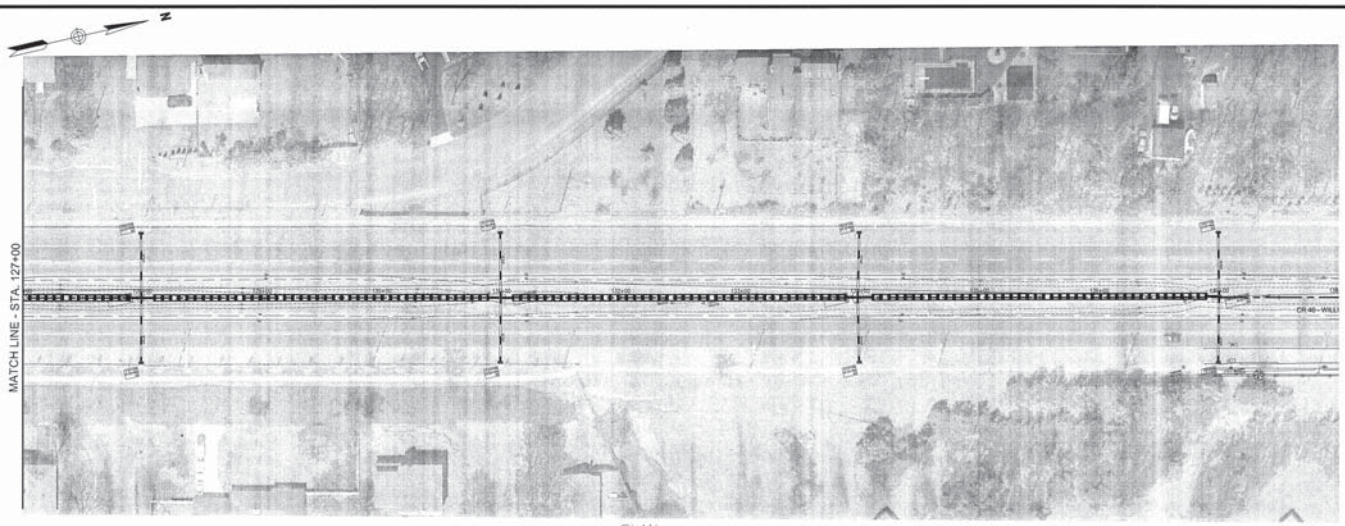
PLANTING PLAN 6

BIO-RETENTION/FILL & LANDSCAPING TREATMENT

PROJECT NO.	DATE	DWG. NO	SHEET NO.
5116	10/26/2010	LA-6	# OF TS

DESIGNED BY: AG
CHECKED BY: RW
DRAWN BY: AG
COMPARED BY: BHM

SYMBOL	DESCRIPTION	APPROVED	DATE
	REVISIONS		



PLAN
SCALE: 1"=40'-0"

40 0 40 80
SCALE IN FEET

COUNTY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
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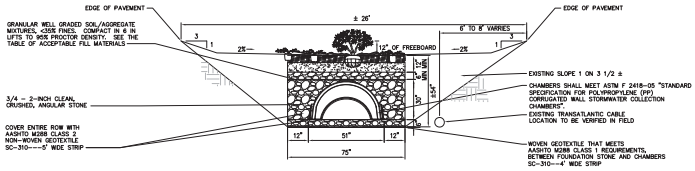
PLANTING PLAN 7

BIO-RETENTION/FILL & LANDSCAPING TREATMENT

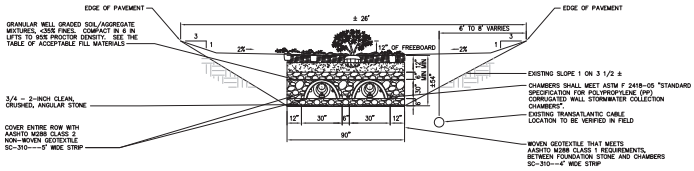
PROJECT NO.	DATE	DWG NO	SHEET NO.
5116	10/26/2010	LA-7	# OF TS

DESIGNED BY: AG
CHECKED BY: RW
DRAWN BY: AG
COMPARED BY: BRM

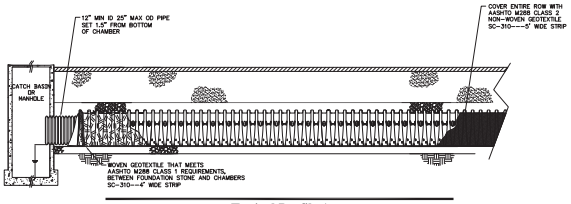
SYMBOL	DESCRIPTION	APPROVED	DATE
	REVISIONS		



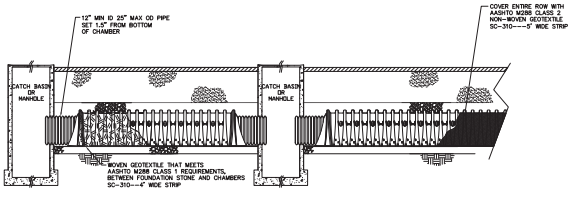
C.R. 46 Median - Typical "Section A" Bioretention/ Fill Treatment & Landscape Plantings



C.R. 46 Median - Typical "Section B" Bioretention/ Fill Treatment & Landscape Plantings



Typical Profile 1



Typical Profile 2

DESIGNED BY: AG
CHECKED BY: SRS
DRAWN BY: AG
COMPARED BY: SRS

SYMBOL	DESCRIPTION	APPROVED	DATE
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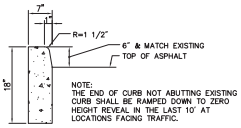
BIO–RETENTION FILL/LANDSCAPING TREATMENT PLAN

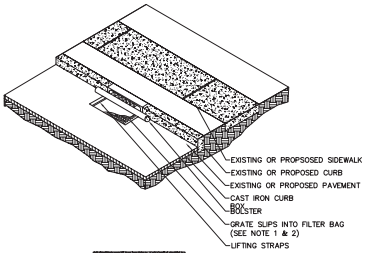
PROJECT NO.	DATE	DWG. NO	SHEET NO.
5116/6021	10/26/2010	BIO-1	OF

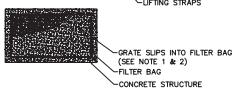


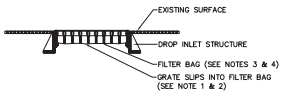
NOTE:
THE END OF CURB NOT ABUTTING EXISTING CURB SHALL BE RAMPED DOWN TO ZERO HEIGHT REVEAL IN THE LAST 10' AT LOCATIONS FACING TRAFFIC.

Concrete Curb Type "A" - Item 97A 10/07

N.T.S.





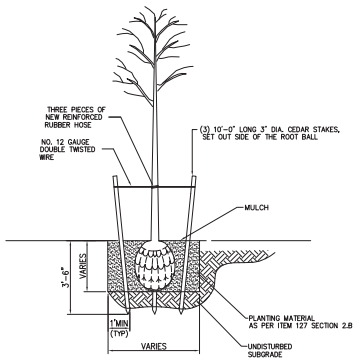


Temporary Sediment Filter Bag - Item 1DECSC

N.T.S.

NOTES:

1. MAINTENANCE WITH A STIFF BRISTLE BROOM, SWEEP SILT AND OTHER DEBRIS OF SURFACE AFTER EACH EVENT.
2. INSTALLATION:
   a. STAND GRATE ON END.
   b. SLIDE THE SILT BAG ON WITH THE DAM ON TOP OF THE GRATE, PULL ALL EXCESS SLACK.
   c. LAY THE UNIT ON ITS SIDE AND CAREFULLY TUCK THE FLAP IN
   d. PRESS THE VELCRO STRIPS TOGETHER.
   e. INSTALL THE UNIT MAKING SURE THE FRONT EDGE OF GRATE IS INSERTED IN THE FRAME FIRST THEN LOWER IT BACK IN PLACE.
   f. PRESS THE VELCRO DOTS THAT ARE LOCATED UNDER THE LIFTING STRAPS TOGETHER, THIS INSURES THAT THE STRAPS REMAIN FLUSH WITH THE GUTTER.
3. INSTALLATION:
   a. STAND GRATE ON END.
   b. PLACE THE SILT BAG OVER THE GRATE.
   c. FLIP THE GRATE OVER SO THE OPEN END IS UP
   d. PULL THE VELCRO STRIPS TOGETHER TUCK THE FLAP IN.
   e. MAKE SURE THAT END OF THE GRATE IS COMPLETELY COVERED BY THE FLAP OR THE DANDY BAG WILL NOT FIT PROPERLY.
   f. WHILE HOLDING THE HANDLES, CAREFULLY PLACE DANDY BAG WITH THE GRATE INSERTED INTO THE CATCH BASIN FRAME SO THAT THE RED DOT ON THE TOP OF THE DANDY BAG IS VISIBLE.
4. MAINTENANCE WITH A STIFF BRISTLE BROOM, SWEEP SILT AND OTHER DEBRIS OF SURFACE AFTER EACH EVENT.
5. PRIOR AND/OR DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH ALL ADDITIONAL MEASURES DEEMED NECESSARY BY THE ENGINEER AND SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROL DEVICES.
6. ALL DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY AND CONFLICTELY REMOVED FROM THE PROJECT AREA.
7. ALL INLET SEDIMENT CONTROL DEVICES AT EACH LOCATION SHALL BE INSTALLED PRIOR TO COMMENCING ANY PAVEMENT WORK IN THAT LOCATION OR AS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT CONTROLS AND REMOVE COLLECTED SEDIMENT ON A WEEKLY BASIS OR AS DIRECTED BY THE ENGINEER. COLLECTED MATERIAL SHALL BE DISPOSED OF PROPERLY TO AN OFF-SITE LOCATION AS DIRECTED BY THE ENGINEER.
8. ALL SEDIMENT CONTROL DEVICES SHALL BE REMOVED FROM THE SITE AFTER CONSTRUCTION IS COMPLETED.



Tree Planting Detail - Item 127

N.T.S.

DESIGNED BY: AG
CHECKED BY: SRS
DRAWN BY: AG
COMPARED BY: SRS

SYMBOL	DESCRIPTION	APPROVED	DATE

REVISIONS

COUNTY OF SUFFOLK
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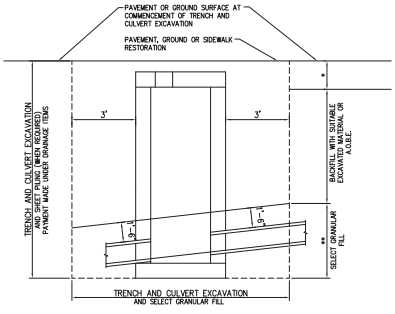
SAFETY AND MEDIAN IMPROVEMENTS

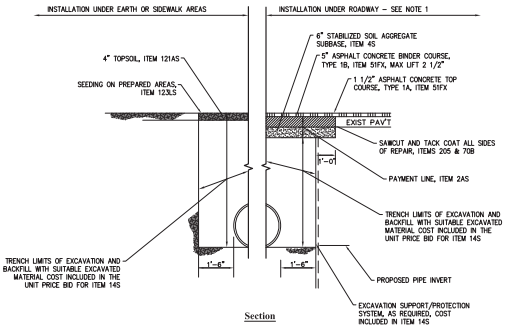
MISCELLANEOUS DETAIL 1

PROJECT NO.	DATE	DWG. NO	SHEET NO.
5116	10/26/2010	MD-1	# OF TS



Catch Basin and Manholes

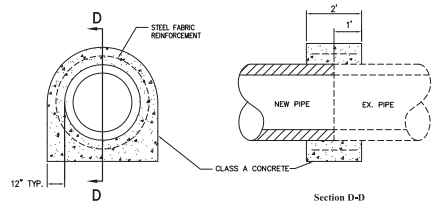
N.T.S.



Section

Drainage Pipe Excavation, Backfill & Surface Restoration

N.T.S.



Section D-D

UTILIZE CONCRETE COLLAR FOR CONNECTING PROPOSED PIPE TO EXISTING PIPE; COST INCLUDED IN OTHER ITEMS.

Concrete Collar Detail

N.T.S.

DESIGNED BY: AG
CHECKED BY: RW
DRAWN BY: AG
COMPARED BY: BRM

SYMBOL	DESCRIPTION	APPROVED	DATE
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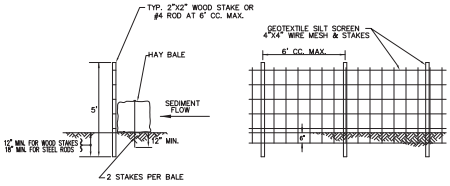
MISCELLANEOUS DETAIL 2

PROJECT NO.	DATE	DWG. NO	SHEET NO.
5116	10/26/2010	MD-2	# OF TS

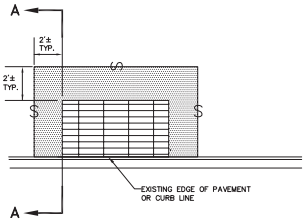


Temporary Silt Screen

N.T.S.

NOTES:

1. THE COST OF FURNISHING, INSTALLING MAINTAINING & REMOVAL OF TEMPORARY SILT SCREENING WILL BE INCLUDED IN THE PRICE BID FOR ITEM 105C TEMPORARY SILT SCREEN.
2. SILT SCREENING SHALL BE INSTALLED AT ALL LOCATIONS AS SHOWN ON THE CONSTRUCTION PLANS. THE SILT SCREEN SHALL BE RECESSED INTO THE GROUND MIN 6".
3. THE STAKES SHALL BE DRIVEN INTO THE GROUND IN SUCH A MANNER THAT THE HAY BALES ARE FORCED TOGETHER AND SECURED IN PLACE



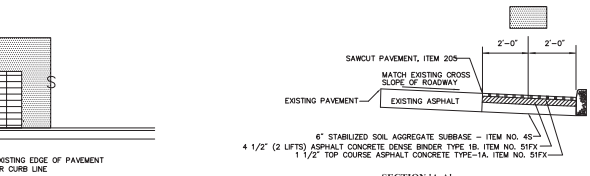
PLAN VIEW DETAIL 'A'

Pavement Restoration Around Drainage Structures

N.T.S.

NOTES:

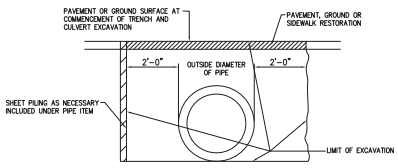
1. CONCRETE PAVEMENT SHALL BE REMOVED TO THE NEAREST TRANSVERSE JOINT, WHEN THE DISTANCE FROM THE EDGE OF THE TRENCH AND CULVERT EXCAVATION TO THE TRANSVERSE JOINT IS TEN FEET OR LESS. THE CONCRETE PAVEMENT SHALL BE REMOVED FOR TWO FEET BEYOND THE EDGE OF THE TRENCH AND CULVERT EXCAVATION
2. ASPHALT PAVEMENT SHALL BE REMOVED FOR AN ADDITIONAL DISTANCE OF TWO FEET FROM THE OUTER EDGE OF THE EXCAVATION IN ALL DIRECTIONS. IF THREE FEET OR LESS OF ASPHALT REMAINS BEYOND THE TWO FOOT LIMIT, IT SHALL ALSO BE REMOVED. PAVEMENT FOR THESE PAVEMENT REMOVALS AND REPLACEMENTS SHALL BE PAID UNDER THE ITEMS SHOWN ELSEWHERE IN THE PLANS.
3. WHEN A DRAINAGE STRUCTURE IS TO BE PLACED ON AN EXISTING PIPE LINE, THE BID PRICE FOR THE BASIN SHALL INCLUDE ALL WORK NECESSARY FOR THIS INSTALLATION, INCLUDING BUT NOT LIMITED TO REMOVAL OF THE EXISTING PIPE, CUTTING OR REMOVING AND RESETTING OR REPLACING PORTIONS OF THE PIPE. INCLUDED COST OF NEW PIPES, ANY NECESSARY COLLARS, AND FINAL CUTTING OF THE PIPE FLUSH WITH THE BASIN WALL TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL FIELD DETERMINE THE EXISTING SIZE AND INVERTS OF PIPE BEFORE FABRICATING THE BASINS.



SECTION 'A-A'

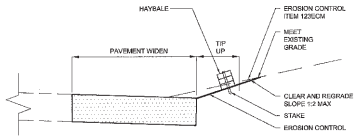
Pavement Restoration Around Drainage Structures

N.T.S.



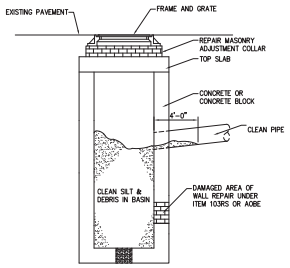
Trench and Culvert Excavation for Drianage Pipe Lines

(Included under drainage pipe item) N.T.S.



Erosion Control Treatment at Side Slope Grading

N.T.S.



Cleaning Existing Catch Basins, Manholes, Field Inlets & Drop Inlets

N.T.S. Item 104B

Repair Walls of Existing Drainage Structures

N.T.S. Item 103RS

NOTE:

ALL CLEANING AND REPAIR DETAILS ARE ILLUSTRATED WITH A TYPICAL CATCH BASIN. WORK IS TYPICAL FOR CATCH BASINS WITH DIFFERENT CONFIGURATIONS. ALL DIMENSIONS ARE VARIABLE. THE CONTRACTOR IS ADVISED TO FIELD INVESTIGATE THE STRUCTURES PRIOR TO SUBMITTING HIS UNIT PRICES FOR THE REHABILITATION OF THESE STRUCTURES.

WHEN POURING THE NEW WALLS IN THE CATCH BASINS, THE CONTRACTOR MAY CHOOSE TO POUR THE NEW WALLS IN SECTIONS. IN THIS CASE A NOTCHED CONSTRUCTION JOINT SHALL BE MADE AT EACH LEVEL. NO JOINTS WILL BE PERMITTED WITHIN 4 FEET OF THE TOP OF THE STRUCTURE.

DESIGNED BY: AG
CHECKED BY: RW
DRAWN BY: AG
COMPARED BY: BRM

SYMBOL	DESCRIPTION	APPROVED	DATE
	REVISIONS		

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MISCELLANEOUS DETAIL 3

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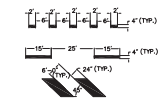
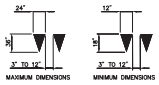
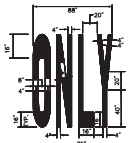


DOTTED LINE (WHITE)	685W
DOTTED LINE (YELLOW)	685Y
BROKEN LINE (WHITE)	685W
BROKEN LINE (YELLOW)	685Y
CROSSHATCHING (YELLOW)	685Y
FULL BARRIER (YELLOW)	685Y
PARTIAL BARRIER (YELLOW)	685Y
LANE LINE (WHITE)	685W
EDGELINE (WHITE)	685W
EDGELINE (YELLOW)	685Y
CHANNELIZING (WHITE)	685W
CHANNELIZING (YELLOW)	685Y
STOP LINE (WHITE)	685W
CROSSWALK (WHITE)	685W

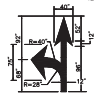


YIELD LINE TRIANGLES (WHITE) 688WYL



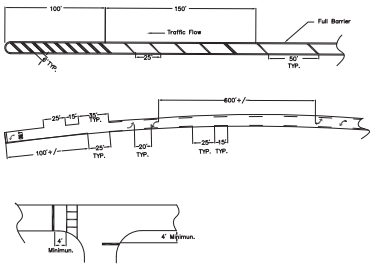
"ONLY" LETTERS 685WL

TURNING ARROW 685WS



TURNING/STRAIGHT ARROW 685WS

MERGE ARROW 685WS



Pavement Marking Detail 10/08

N.T.S.

DESIGNED BY: AG
CHECKED BY: RW
DRAWN BY: AG
COMPARED BY: BRM

SYMBOL	DESCRIPTION	APPROVED	DATE
	REVISIONS		

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MISCELLANEOUS DETAIL 4

PROJECT NO.	DATE	DWG. NO	SHEET NO.
5116	3/17/2010	MD-4	# OF TS

Drainage Table

STR. NO.	STATION	OFFSET	DESCRIPTION	PIPE LENGTH (LF)								CLEAN EXISTING Item 104B		STRUCTURE TYPE										ADJ. Item	ALT.	CASTING TYPE Items 30C & 30F				INLET PROTECTION Item 1DECSC
				CLASS IV RCP - Item 14S-_										C.B. (LF) - Item 102_				L.B. (EA) Item 100_		TOP SLAB TYPE			H&S							
				15"	18"	24"	30"	36"	42"	48"	ES	STR.	PIPE (L.F.)	A	B	C	X	D	DX	Z	U	V	(EA.)	103AD		1	2	3	C	

	PIPE LENGTH (LF)								CLEAN EXISTING Item 104B		STRUCTURE TYPE										ADJ. Item	ALT.	CASTING TYPE Items 30C & 30F				INLET PROTECTION Item 1DECSC
	CLASS IV RCP - Item 14S-_										C.B. (LF) - Item 102				L.B. (EA) Item 100_		TOP SLAB TYPE			H&S							
	15"	18"	24"	30"	36"	42"	48"	ES	STR.	PIPE (L.F.)	A	B	C	X	D	DX	Z	U	V	(EA)	103AD		1	2	3	C	(EA)
TOTALS																											

DESIGNED BY: AG
CHECKED BY: RW
DRAWN BY: AG
COMPARED BY: BRM

SYMBOL	DESCRIPTION	APPROVED	DATE

R E V I S I O N S

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SAFETY AND MEDIAN IMPROVEMENTS

DRAINAGE TABLE

PROJECT NO.	DATE	DWG. NO	SHEET NO.
5116	10/26/2010	DT-1	# OF TS

Table of Excavation

THE CONTRACTOR IS ADVISED TO READ ALL SECTIONS OF ITEM 2AS - UNCLASSIFIED EXCAVATION, UNDER THE METHOD OF MEASUREMENT IT STATES THAT "NO EXTRA PAYMENT WILL BE MADE FOR IMPORTATION OF FILL IN BORROW SITUATIONS...".

Summary Table		C.Y.
1	UNSUITABLE MATERIAL (ROAD METAL) (see note a)	
2	FILL AVAILABLE FROM EXCAVATION OF DRAINAGE STRUCTURES AND PIPE	
3	TOTAL EXCAVATION AVAILABLE FOR FILL (2) (see note c)	
4	TOTAL FILL REQUIRED (see note d)	
5	IMPORTATION OF FILL (4-3)	
6	EXCAVATION, NOT TO BE USED AS FILL (1)	

NOTES:

a. UNSUITABLE MATERIAL INCLUDES EXCAVATION FROM THE CONSTRUCTION OF NEW CURB, SIDEWALK, PAVEMENT WIDEINGS, PAVEMENT RECONSTRUCTION, PEDESTRIAN RAMPS, DRIVEWAYS, ETC. CONCRETE FROM THE REMOVAL OF EXISTING CURB, SIDEWALK, ETC. EXCAVATION OF EXISTING TOPSOIL AND SOIL COMBINED WITH ROAD METAL AND/OR TOPSOIIL.

b. THE QUANTITIES FOR THE ABOVE TABLE ARE PREPARED FROM THE BEST INFORMATION AVAILABLE. THE CONSTRACTORS ATTENTION IS CALLED TO THE FACT THAT CONDITIONS AND QUANTITIES, AS SHOWN ON THE TABLE ARE ESTIMATED AND NOT ACTUAL. THE QUANTITIES SHOWN ARE SOLELY FOR THE PURPOSE OF PREPARING AN ESTIMATE AND FOR DETERMINATION OF THE LOW BID. THE PAYMENT FOR EXCAVATION WILL BE A LUMP SUM BID, ITEM 2AS. THESE CONDITIOINS AND QUANTITIES ARE NOT TO BE DEEMED OR CONSIDERED AS A WARRANTY OR REPRESENTATION OF ACTUAL FIELD CONDITIONS OR QUANTITIES.

c. SOME OF THE UNSUITALBE MATERIAL ABOVE MAY BE AVAILABLE FOR FILL (3), AOBE.

d. THE TOTAL FILL REQUIRED IS BASED ON THE ASSUMPTION THAT 50% OF ITEM 105S & WILL REQUIRE FILL.

Table of Concrete Curb - Item 97B

Location	Conc. Curb (LF)	Remarks
TOTAL		

Table of Concrete Curb - Item 97A

Approx. Station to Station		Approx. Conc. Curb (LF) Lt	Rt	Remarks
	TOTAL			

NOTES:

1. WHERE THE APPROX. LENGTH IS NOT EQUAL TO THE ENDING STATION - STARTING STATION, THEN THE APPROX. LENGTH INCLUDES THE CURVED LENGTH OF CURB AROUND INTERSECTION.

2. TABLE DOES NOT INCLUDE THE REQUIRED CURB ITEM AT PEDESTRIAN RAMPS AND DRIVEWAYS.

Table of Plantings - Item 127-200 (see note below)

Species	Quantity
plant	#

See Dwg. No _____ for approximate location of plantings.
Final locations A,O,B,E.

Table of Concrete Sidewalk - Item 105S

Starting Station	Ending Station	Offset	Approx Length (Ft)	Width (Ft.)	Area (SY)
		TOTAL			

NOTE:
WHERE THE APPROX. LENGTH IS NOT EQUAL TO THE ENDING STATION - STARTING STATION, THEN THE APPROX. LENGTH INCLUDES THE CURVED LENGTH OF SIDEWALK AROUND INTERSECTION.

Table of Pedestrian Ramps - Item 105S

Starting Station	Offset	Type	Starting Station	Offset	Type
		TOTAL			

DETECTABLE WARNING FIELDS (ITEM 105DW) ARE TO BE INSTALLED ON ALL PEDESTRIAN RAMPS CONSTRUCTED

Table of Concrete Driveway Apron - Item 105S

Approx. Station	Offset	Exist. Material (see note 1)

1. RESTORE DRIVEWAYS WITH LIKE MATERIALS:
ASPH - ITEM 51D
DIRT/GRAVEL - ITEM 4S
GRASS - ITEMS 121A & 123LS

DESIGNED BY: AG
CHECKED BY: RW
DRAWN BY: AG
COMPARED BY: BRM

SYMBOL	DESCRIPTION	APPROVED	DATE
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MISCELLANEOUS TABLES

PROJECT NO.	DATE	DWG. NO	SHEET NO.
5116	10/26/2010	MT-1	# OF TS

DESIGNED BY: AH
CHECKED BY: SRS
DRAWN BY: GD
COMPARED BY: AH

SYMBOL	DESCRIPTION	APPROVED	DATE

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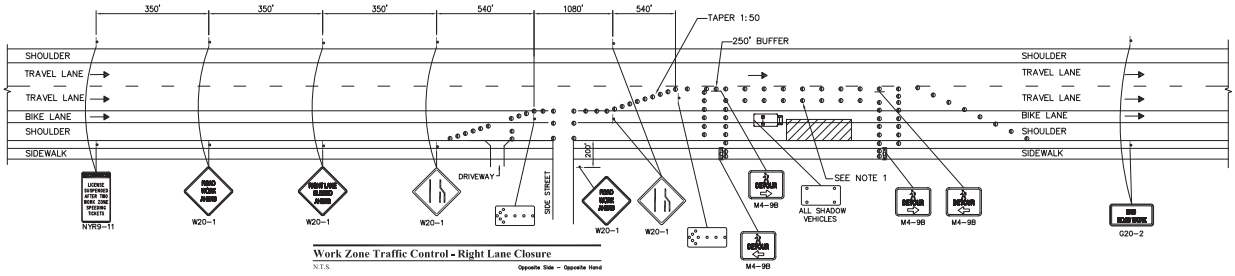
SAFETY AND MEDIAN IMPROVEMENTS

SURVEY CONTROL PLAN

PROJECT NO.	DATE	DWG. NO	SHEET NO.
5116	10/26/2010	SC-1	# OF TS



Work Zone Traffic Control - Right Lane Closure

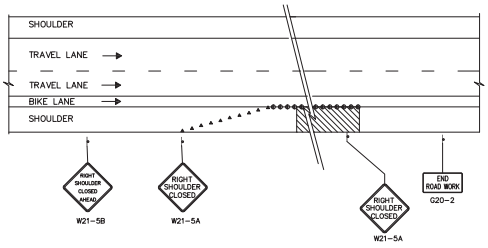
N.T.S.

Opposite Side – Opposite Hand

PEDESTRIAN ACCOMODATION NOTE : THE CONTRACTOR SHALL SCHEDULE WORK OPERATIONS TO MINIMIZE THE INTERRUPTION OF PEDESTRIAN TRAFFIC. DURING DAYTIME CONSTRUCTION OF THE CURB, APRONS, AND SIDEWALK, THE SIDEWALK SHALL REMAIN OPEN AND PASSABLE AT ALL TIMES BY CREATING A PEDESTRIAN DETOUR ROUTE IN THE RIGHT THROUGH LANE OF COUNTY ROAD 46. THE TEMPORARY PEDESTRIAN WALKWAY SHALL HAVE A MINIMUM OF 3' WIDE CLEAR ZONE BETWEEN THE DRUMS, ADDITIONALLY, THE CONTRACTOR MUST INCORPORATE 5x5' PASSING AREAS EVERY 200 FEET ALONG THE DETOUR, WHERE THE DETOUR MEETS THE CURB, THERE SHALL BE A TEMPORARY RAMP PLACED PERPENDICULAR TO THE CURB WHICH MEETS ADA REQUIREMENTS FOR WIDTH AND SLOPE, THE CONTRACTOR SHALL PLACE ALL UNDERGROUND APPURTENANCES UNDER THE SIDEWALK FIRST, AT LOCATIONS WHERE EXISTING SIDEWALK IS CLOSED, THE CONTRACTOR SHALL PLACE A TYPE III BARRICADE WITH FEDERAL MUTCD M4-9B "SIDEWALK DETOUR" SIGN, DURING NON-WORKING HOURS, TEMPORARY PEDESTRIAN WALKWAY WILL BE REMOVED AND PEDESTRIANS WILL USE EXISTING AND/OR NEW SIDEWALK, NEW SIDEWALK OR APRONS NOT CURED TO ACCEPTABLE LEVEL AT TIME OF WORK STOPPAGE BY ENGINEER-IN-CHARGE TO BE COVERED WITH A PLYWOOD WALKWAY OVER NEW CONCRETE AREA.

NOTE:

1. CONE SPACING SHALL BE 40 FEET C.C. ON TANGENT AND 20 FEET C.C. ON TAPERS OR A.O.B.E.



Work Zone Traffic Control - Right Shoulder Closure

N.T.S.

LEGEND

- DRUM
- CONE
- SHADOW VEHICLE
- WORK AREA
- FLASHING ARROW BOARD
- FLAGGER
- FLAG TREE
- DIRECTION OF TRAFFIC
- WARNING LIGHT
- TYPE III BARRICADE

DESIGNED BY: RW
CHECKED BY: SRS
DRAWN BY: RW
COMPARED BY: BRM

SYMBOL	DESCRIPTION	APPROVED	DATE
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SAFETY AND MEDIAN IMPROVEMENTS

WORK ZONE
TRAFFIC CONTROL PLAN

PROJECT NO.	DATE	DWG. NO	SHEET NO.
5116	10/26/2010	WZ-1	# OF TS