

CF 0065-06
Cond. App.

Crisfield Water Pip
Replacement

MSA.S. 1829-5714

KLS Commans
4/25/06

Robert L. Ehrlich, Jr.
Governor

Michael S. Steele
Lt. Governor



Martin G. Madden
Chairman

Ren Serey
Executive Director

**STATE OF MARYLAND
CRITICAL AREA COMMISSION
CHESAPEAKE AND ATLANTIC COASTAL BAYS**

1804 West Street, Suite 100, Annapolis, Maryland 21401
(410) 260-3460 Fax: (410) 974-5338
www.dnr.state.md.us/criticalarea/

April 25, 2006

Mr. Cabbie Dize
City Manager
City of Crisfield
P.O. Box 270
Crisfield, Maryland 21817

Re: Crisfield Water Pipeline Amendment - Jersey Island Pump Station

Dear Mr. Dize:

The purpose of this letter is to officially notify you of the Critical Area Commission's action on the above referenced project. On April 5, 2006, the Project Subcommittee of the Critical Area Commission approved the City's proposal to amend the water pipeline project approved on November 2, 2005 in order to add the renovations of the Jersey Island Pump Station located on Norris Harbor Drive. The project will temporarily disturb 250 square feet and will be re-established in vegetation post-construction. This approval included the following condition:

The City of Crisfield will provide additional mitigation in the form of 15 additional Bayberry Bush shrubs, to bring the total number of shrubs for both projects to 431.

Please note that should any changes to the site plan be proposed for rehabilitation of the pump station, additional review and approval by the full Commission would be required. Should you have any questions, please feel free to contact me at 410-260-3475.

Sincerely,

A handwritten signature in cursive script that reads "Kate Schmidt".

Kate Schmidt
Natural Resource Planner

cc: Tracey Gordy, MDP

Robert L. Ehrlich, Jr.
Governor

Michael S. Steele
Lt. Governor



Martin G. Madden
Chairman

Ren Serey
Executive Director

**STATE OF MARYLAND
CRITICAL AREA COMMISSION
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www.dnr.state.md.us/criticalarea/

February 3, 2006

Mr. William Mister
City Inspector
City of Crisfield
P.O. Box 270
Crisfield, Maryland 21817

Re: Pipeline Project Mitigation Planting Plan Approval

Dear Mr. Mister:

The purpose of this letter is to officially notify you of the Critical Area Commission's action on the above referenced project. On February 1, 2006, the Critical Area Commission unanimously approved the City's mitigation planting plan associated with the replacement water line project. This approval was granted in fulfillment of a condition imposed by the Commission during their November 2, 2005 approval of the waterline project.

The approved mitigation planting plan proposes the planting of 416, two to three gallon Bayberry shrubs, to be located along both sides of Norris Harbour Drive. To finalize the mitigation planting approval, please fill out the enclosed planting agreement and return it to Commission staff at your earliest convenience. Please note that should any changes to the planting plan be proposed, additional review and approval by the Commission will be required. In addition, any future disturbances to the planted area will require review by the Commission and replacement of disturbed plantings. Should you have any questions, please feel free to contact me at 410-260-3482.

Sincerely,

A handwritten signature in cursive script that reads "Kerrie Gallo".

Kerrie L. Gallo
Natural Resource Planner

Cc: Tracey Gordy, MDP



Maryland Department of Planning

Robert L. Ehrlich, Jr.
Governor

Michael S. Steele
Lt. Governor

Audrey E. Scott
Secretary

Florence E. Burian
Deputy Secretary

March 20, 2006

Mr. William Mister
Zoning Inspector
City of Crisfield
P.O. Box 270
Crisfield, Maryland 21817

Re: Jersey Island Pump Station Rehabilitation Project
Critical Area Review

Dear Mr. Mister:

This letter is in response to plans received by this office on February 27th from Mr. Jason Loar of Davis, Bowen & Friedel, Inc., detailing proposed renovations to the Jersey Island Pump Station. The pump station is located within an Intensely Developed Area (IDA) and Buffer Exemption Area (BEA) of the City of Crisfield's Critical Area Overlay District. A site inspection was conducted on March 6th to confirm that the pump station is, in fact, located within the 100' Buffer.

Typically, a local government agency action such as this requires a consistency report be submitted to the Critical Area Commission staff in Annapolis for review and comment. In this case, since the pump station is located within the Buffer, albeit a BEA, the City cannot claim consistency and therefore a conditional approval from the Critical Area Commission would normally be required, as was the case with the Jersey Island water pipe installation. However, since the majority of the proposed renovations are interior (inside the existing pump house), the proposed exterior renovations are temporary and minimal (less than 250 square feet), and the exterior area to be disturbed consists of grass and no natural vegetation, the Critical Area Commission staff has agreed to approve this project subject to the following conditions:

1. This project will be an add-on to the Jersey Island water pipe project since the pump station is at the same approximate location as the water pipe project. The Commission staff will brief the Critical Area Commission on this at the Commission's April meeting and ask that the previous conditional approval granted for the water pipe project be amended to include the pump station project as well;

Lower Eastern Shore Regional Office
Salisbury Multi-Service Center
201 Baptist Street • Suite 24 • Salisbury, Maryland 21801-4974
Telephone: 410.713-3460 • Fax: 410.713-3470
Internet: www.MDP.state.md.us

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MAR 27 2006

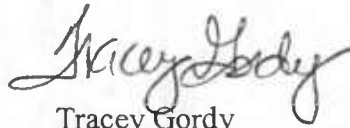
CRITICAL AREA COMMISSION

2. Since this project will be added to the previous water pipe project, additional mitigation will be required. Since proposed temporary disturbance within the BEA is 250 square feet, the City shall be required to plant an additional 15 Bayberry Bush shrubs, bringing the total number of shrubs for both projects to 431; and,
3. The exterior disturbance shall be 250 square feet or less and the area to be disturbed shall be re-established in vegetation post-construction. Should the area of exterior disturbance increase, this office shall immediately be notified and the project will be re-evaluated.

If the City is agreeable to the conditions of approval as stated in this letter, please notify this office, in writing, of acceptance and state the City's commitment to planting the additional 15 shrubs as 2:1 mitigation for the temporary impacts proposed within the Buffer Exemption Area (BEA).

As always, please feel free to contact me should you have any questions.

Sincerely,



Tracey Gordy
Regional Planner/Circuit Rider

Cc: Kerrie Gallo
Cabby Dize
Jason Loar

Robert L. Ehrlich, Jr.
Governor

Michael S. Steele
Lt. Governor



Martin G. Madden
Chairman

Ren Serey
Executive Director

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November 3, 2005

Mr. Cabbie Dize
City Manager
City of Crisfield
P.O. Box 270
Crisfield, Maryland 21817

Re: Crisfield Water Pipeline

Dear Mr. Dize:

The purpose of this letter is to officially notify you of the Critical Area Commission's action on the above referenced project. On November 2, 2005, the Critical Area Commission unanimously approved the City's proposal and site plan to construct a 4,335 linear foot replacement water pipe within the jurisdictional limits of the City of Crisfield. This approval included the following condition:

1. The City of Crisfield shall report back to the Commission's project subcommittee no later than the date of the Commission's February meeting (February 1, 2006) on the City's progress regarding a planting site, mitigation plan, and implementation of that plan.

In fulfillment of the above condition, please provide Commission staff with a mitigation planting plan for the 6,927 square feet of disturbance to the Buffer. Once this information is received and reviewed by Commission staff, the planting plan will be placed on the following month's Commission agenda for evaluation and approval by the project subcommittee. Please note that should any changes to the site plan be proposed for the installation of the pipeline, additional review and approval by the full Commission would be required. Should you have any questions, please feel free to contact me at 410-260-3482.

Sincerely,

A handwritten signature in cursive script that reads "Kerrie Gallo".

Kerrie L. Gallo
Natural Resource Planner

Cc: Tracey Gordy, MDP

CRITICAL AREA COMMISSION
1804 West Street, Suite 100
Annapolis, Maryland 21401

TO: Project Subcommittee
FROM: Kerrie Gallo & Kate Schmidt
DATE: April 5, 2006
SUBJ: Crisfield Water Pipeline and Pump Station Rehabilitation Project

The City of Crisfield proposes to renovate the existing Jersey Island Pump Station located on Norris Harbor Drive. The pump station is located within an Intensely Developed Area (IDA) and Buffer Exemption Area (BEA) of the City of Crisfield's Critical Area Overlay District. The pump station is located within the 100' Buffer.

The project consists primarily of repair and replacement of internal areas of the pump station, but will also include temporary disturbance outside the pump station to install one manhole, reconnection of one sanitary sewer service connection, and reconnection to the existing forcemain. Approximately 250 square feet of temporary disturbance will take place on site. The area to be disturbed consists of grass and no natural vegetation.

The pump station project is located in approximately the same location as the Jersey Island water pipe project previously approved by the Commission on November 2, 2005. The water pipeline project begins on Jersey Road, runs northeast to Norris Harbor Drive, and continues north to 4th Street. The pipeline project will disturb approximately 13,005 square feet in the Critical Area, including 6,927 square feet of disturbance to the 100-foot Buffer. As a condition of approval, the Commission required that the City of Crisfield provide mitigation at a ratio of 3:1 for the 6,927 square feet of disturbance to the Buffer. In fulfillment of this condition, the City developed a mitigation planting plan consisting of 416 2-3 gallon size Bayberry Bush Shrubs to be replanted on site on Norris Harbor Drive. The mitigation plan was approved by the project subcommittee on February 1, 2006.

We will discuss this proposal at the subcommittee meeting.

Mitigation for ^{temporary disturbance of} 250 # would ~~exist~~ also be at 2:1 - equate to 15 Bayberry Bush shrubs to bring total # for both projects to 431

As you aware!

CC: Brian Olson
Francis Silverhold, Riverview

* removal efficiency
not capacity

CRITICAL AREA COMMISSION
1804 West Street, Suite 100
Annapolis, Maryland 21401

TO: Project Subcommittee
FROM: Kerrie Gallo & Kate Schmidt
DATE: April 5, 2006
SUBJ: Crisfield Water Pipeline and Pump Station Rehabilitation Project

The City of Crisfield proposes to renovate the existing Jersey Island Pump Station located on Norris Harbor Drive. The pump station is located within an Intensely Developed Area (IDA) and Buffer Exemption Area (BEA) of the City of Crisfield's Critical Area Overlay District. The pump station is located within the 100' Buffer.

The project consists primarily of repair and replacement of internal areas of the pump station, but will also include temporary disturbance outside the pump station to install one manhole, reconnection of one sanitary sewer service connection, and reconnection to the existing forcemain. Approximately 250 square feet of temporary disturbance will take place on site. The area to be disturbed consists of grass and no natural vegetation.

The pump station project is located in approximately the same location as the Jersey Island water pipe project previously approved by the Commission on November 2, 2005. The water pipeline project begins on Jersey Road, runs northeast to Norris Harbor Drive, and continues north to 4th Street. The pipeline project will disturb approximately 13,005 square feet in the Critical Area, including 6,927 square feet of disturbance to the 100-foot Buffer. As a condition of approval, the Commission required that the City of Crisfield provide mitigation at a ratio of 3:1 for the 6,927 square feet of disturbance to the Buffer. In fulfillment of this condition, the City developed a mitigation planting plan consisting of 416 2-3 gallon size Bayberry Bush Shrubs to be replanted on site on Norris Harbor Drive. The mitigation plan was approved by the project subcommittee on February 1, 2006.

Since the proposed pump station rehabilitation is related to, and in the same general vicinity of the approved water pipeline replacement, staff recommends that the project subcommittee amend the previous conditional approval granted for the water pipe to include the pump station project. An additional 250 square feet of temporary disturbance within the BEA is proposed for rehabilitation of the pump station. Should the project subcommittee grant an amendment to the existing conditional approval, Commission staff recommends that the following be included as conditions:

February 27, 2006

Maryland Department of Planning
Lower Eastern Shore Regional Office
201 Baptist Street, Suite 24
Salisbury, Maryland 21801

Attn: Ms. Tracey Gordy

Re: Jersey Island Pump Station Rehabilitation Project
Crisfield, Maryland
DBF #187A013A

Gerald G. Friedel, P.E.
Michael R. Wigley, AIA
Randy B. Duplechain, P.E.
Charles R. Woodward, Jr., LS
Jo Anne Williams, P.E.
Charles A. Hauser, P.E.

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MD. DEPARTMENT OF PLANNING

FEB 27 2006

LOWER EASTERN SHORE OFFICE

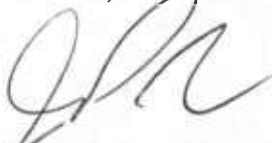
Dear Ms. Gordy:

On behalf of the City of Crisfield, I am sending you two (2) sets of plans for the Jersey Island Pump Station Rehabilitation Project. This project has been bid and a contract awarded with work scheduled to commence once a water appropriations permit is received. Although this project is considered an emergency maintenance issue due to repetitive maintenance issues, minimal disturbance will occur. Therefore, it has been brought to our attention that Critical Area must review and approve the plans before we can continue.

This project consists primarily of repair and replacement of internal workings of the pump station including but not limited to pumps, exhaust fans, ladders, controls, coatings and piping. Minimal temporary disturbance outside of the pump station will occur due to the installation of one manhole, reconnection of one sanitary sewer service connection and, reconnection of the existing forcemain. We anticipate approximately 250 ft² of temporary disturbance which will be replaced to its original, if not better, condition.

The City has experienced several pump failures, although no overflows, and other associated issues with this pump station requiring the City to label its repair as an emergency situation. Therefore, your expedited review of this project would be greatly appreciated due to its critical nature.

Very Truly Yours,
DAVIS, BOWEN & FRIEDEL, INC.



Jason P. Loar, P.E.
Project Manager

N:\01\187a\187A013A\Letters\Gordy1.jpl.doc

cc: Calvin Dize, City Manager – City of Crisfield (w/o enclosures)

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MAR 20 2006

CRITICAL AREA COMMISSION

CRITICAL AREA COMMISSION
1804 West Street, Suite 100
Annapolis, Maryland 21401

MEMORANDUM

To: Project Subcommittee

From: Kerrie Gallo

Date: February 1, 2006

Subject: Crisfield Water Pipeline Mitigation Planting Plan

On September 7, 2005, the Commission granted conditional approval to the City of Crisfield for the installation of a replacement water line on land owned by the City. The City's proposal included the installation of 4,335 linear feet of 10-inch pipeline, and 6,927 square feet of disturbance to the Buffer. Consequently, Commission staff recommended that the City provide mitigation at a 3:1 ratio for the area of disturbance within the Buffer. At the time of project approval, the City was not proposing to provide mitigation. Upon consideration of the proposed impacts, the project subcommittee further concluded that the City's proposal could not be considered consistent with the provisions of the State and local Critical Area Program without the inclusion of mitigation. Therefore, the approval granted by the Commission contained a condition requiring the City to provide mitigation for the impacts to the Buffer. This condition stated that the City of Crisfield shall report back to the Commission's project subcommittee no later than the date of the Commission's February meeting (February 1, 2006) on the City's progress regarding a planting site, mitigation plan, and implementation of that plan.

At this time, the City of Crisfield has provided a mitigation planting plan in fulfillment of the Commission's condition. The proposed plan proposes to plant 416, two-three gallon Bayberry Bush shrubs as mitigation for the 6,927 square feet of impacts to the Buffer. This mitigation equates to 50 square feet of credit per shrub, provided for a total square area of 20,781 square feet. The proposed plantings will be located along both sides of the western portion of Norris Harbor Drive in cluster and row patterns (see attached location maps). This plantings will be located in the same area disturbed for the installation of the pipeline. The City is aware that any future disturbances for maintenance of the pipeline will require replacement of any plantings disturbed. As with all approved mitigation plans, Commission staff will perform site visits on an annual basis, for two consecutive years. The City will be required to maintain survivability of at least 75% in accordance with State Forest Conservation Standards.

Schmidt, Katherine

From: Gallo, Kerrie
Sent: Tuesday, March 21, 2006 8:39 AM
To: Schmidt, Katherine
Subject: Crisfield Commission Project

Hi Kate,

Please see the attached letter from Tracey. Ren and I looked at this letter yesterday and gave Tracey the ok to send it to the City. Ren would like for this portion of the project to be presented to the project subcommittee with them deciding whether it needs to be presented to the full Commission in the afternoon or not. I put it on the Board downstairs already. Tracey sent the actual plans in the mail on Friday, so they should be here any day. When you get them, we can pull the file from the larger water pipeline replacement and figure out what kind of memo to write to squeak this into the original approval. The Commission mailing is supposed to go out this Friday, but it is usually late.

Kerrie

CRITICAL AREA COMMISSION MEMBERSHIP

CHAIRMAN

Senator Martin G Madden
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Annapolis, MD 21401
410-260-3467
Fax: 410-974-5338
mmadden@dnr.state.md.us

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Cell: 410-430-8213

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Honorable Glenn L. Bramble
County Councilman
Work: 5222 Heron Road
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410-228-5272
dlsa@intercom.net

Dorchester County
Fax: 410-228-3397
Home: 410-228-8289
Asst: Lisa or Tricia
dlsa@intercom.com (Lisa)

Critical Area Commission**STAFF REPORT**
September 7, 2005

APPLICANT: City of Crisfield

PROPOSAL: Water Pipe Replacement

JURISDICTION: City of Crisfield

COMMISSION ACTION: Vote

STAFF RECOMMENDATION: Conditional Approval with condition

STAFF: Kerrie Gallo

**APPLICABLE LAW/
REGULATIONS:** COMAR 27.02.06 Conditional Approval of State or
Local Agency Programs in the Critical Area

DISCUSSION:

The City of Crisfield proposes to replace an existing 6-inch waterline with a new 10-inch pipe. The development proposal also includes the digging of a trench to accommodate the installation of the pipe. Since the proposed activities occur within the 100-foot Buffer to the Chesapeake Bay, this project requires a Conditional Approval by the Commission, as found in Chapter 2 of the Critical Area Commission's regulations for State and local government development.

The project is located in the City of Crisfield, and begins on Jersey Road, at the site of the Jersey Island development project. From Jersey Road, the pipeline runs northeast to Norris Harbor Road, continuing north to 4th Street, at which point the pipeline turns and runs directly west. The existing site conditions consist of mainly gravel and grass, with the entirety of the pipeline located within the existing road or rights-of-ways. The site is located within an Intensely Developed Area (IDA) of the City's Critical Area overlay district, and lies partially within the Buffer.

The development proposal includes the installation of 4,335 linear feet of 10-inch pipeline. In order to install the pipeline, a 3-foot wide trench will be dug along the entirety of the project. As a result, approximately 13,005 square feet of disturbance is proposed for the installation. Of this, approximately 6,927 square feet of disturbance occurs within the 100-foot Buffer. Other than the impacts to the Buffer, there are no other Habitat Protection Areas within the project boundaries.

Conditional Approval Process

In order to qualify for consideration by the Commission for conditional approval, the proposing agency must show that the project or program has the following characteristics:

The following are the responses offered by the applicant:

(1) That there exist special features of a site or there are other special circumstances such that the literal enforcement of these regulations would prevent a project from being implemented;

The project involves improving the City's water distribution system by replacing an existing six-inch water line located within the Somers Road (aka: Norris Harbor Drive), 4th Street, and Norris Harbor Drive rights-of-way and the Critical Area setback. Due to site constraints, installation of the replacement line must be within the existing rights-of-way in order for the line to provide service to surrounding properties. Only part of the Somers Road and entire length of Norris Harbor Drive rights-of-way are located within the Critical Area setback.

(2) That the project otherwise provides substantial public benefits to the Chesapeake Bay Critical Area Program;

~~Proposed landscape mitigation within the Critical Area setback will enhance water quality through nutrient uptake and will reduce the possibility of shoreline erosion. Furthermore, all disturbed areas will be re-vegetated and will improve existing conditions. These factors combined will result in long-term net improvements to water quality in the Chesapeake Bay.~~

* Mitigation is no longer proposed by the applicant.

(3) That the project is otherwise in conformance with this subtitle.

To our knowledge, the project is in compliance with all provisions listed in Subtitle 02..

The Commission must find that the conditional approval request contains the following:

(1) That a literal enforcement of the provision of this subtitle would prevent the conduct of an authorized State project;

Since the entire project areas is within the Norris Harbor Drive and Somers Road rights-of-way and the Critical Area setback, disturbance for construction activities would be prohibited by the Critical Area Program requirements. Therefore, a temporary disturbance and conditional approval to complete the project is requested.

(2) There is a process by which the project could be so conducted as to conform, insofar as possible, with the approved local Critical Area program, or if the development is to occur on State-owned lands, with the criteria set forth in COMAR 27.02.05; and

A sequence of operations for construction is presented in the Sediment and Erosion Control plans. All measures and construction techniques shown on the approved construction plans will be followed throughout construction and are in accordance, insofar as possible, with the approved City of Crisfield Critical Area program. The proposed project area is located completely on lands owned by the City of Crisfield.

(3) Measures proposed to mitigate any adverse effects of the project on an approved local Critical Area program or, State-owned lands, on the criteria set forth in COMAR 27.02.05.

* Mitigation measures are not proposed by the applicant at this time.

Staff Recommendation

Staff recommends that the project be approved with the following condition:

The City of Crisfield shall provide mitigation at a ratio of 3:1 for the 6,927 square feet of disturbance to the Buffer. The mitigation shall be implemented in accordance with a signed planting agreement to be approved by the Commission's project subcommittee.

Richard Scott, Mayor
City Council:
Catherine A. Brown, Vice-Pres.
Carolyn Evans
Daniel Thompson
Roger R. Riggin, Jr.
Percy J. Purnell, Jr.

City of Crisfield
City Hall
319 W. Main Street
Crisfield, Maryland 21817

P.O. Box 270
410-968-1333
Fax 410-968-2167
crisfield@ccisp.net

January 17, 2006

**STATE OF MARYLAND
CRITICAL AREA COMMISSION**

Attention: Kerrie Gallo

RE: Buffer Mitigation Requirements.

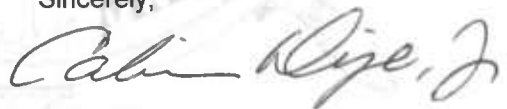
Dear Ms. Gallo:

The City of Crisfield will be planting 416, 2 to 3 gallon size Bayberry Bush Shrubs that must be periodically inspected and maintained by the City of Crisfield. This Species was selected considering the poor soil conditions at the selected planting location, and with the recommendation from a local forester.

The Shrubs shall be distributed equally on both sides of the due west portion of Norris Harbor Drive in cluster and row patterns.

Attached are the drawings showing the area that the plantings will be located.

Sincerely,



Calvin Dize Jr.

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JAN 19 2006

CRITICAL AREA COMMISSION

Kerrie

21-04
65-06

Richard Scott, Mayor
City Council:
Catherine A. Brown, Vice-Pres.
Carolyn Evans
Daniel Thompson
Roger R. Riggin, Jr.
Percy J. Purnell, Jr.

City of Crisfield
City Hall
319 W. Main Street
Crisfield, Maryland 21817

P.O. Box 270
410-968-1333
Fax 410-968-2167
crisfield@ccisp.net

October 20, 2005

Critical Area Commission
1804 West Street, Suite 100
Annapolis, MD 21401

Attn.: Ms. Kerrie Gallo

Re: Jersey Island
Crisfield, Maryland

Dear Ms. Gallo:

Enclosed are revised plans and supporting computations relating to the application for a conditional approval for the proposed construction of 4335 lineal feet of 10-inch water main within the Chesapeake Bay Critical Area setback.

Criteria for Conditional Approval of Local Agency Programs in the Critical Area have been met in accordance with *Title 27, Subtitle 02, Chapter 06.01 of the Chesapeake Bay Critical Area Commission regulations relating to Development in the Critical Area Resulting from State and Local Agency Programs*. Comments indicating how the proposed plan meets each of the criteria are presented below. The numbering directly corresponds to the section of the program regulations referenced above:

- A. Conditional Approval is being sought for the improvement of the City water distribution system. This improvement necessitates disturbance within the Chesapeake Bay Critical Area setback as indicated on the enclosed plans.
- B. Characteristics of the project sponsored by the City of Crisfield are listed below:
 - 1) The project involves improving the City's water distribution system by replacing an existing 6 inch water line located within the Somers Road (A.K.A. Norris Drive), 4th Street and Norris Harbor Drive rights-of-way and the Critical Area setback. Due to site constraints, installation of the replacement line must be within the existing rights- of- way in order for the line to provide service to surrounding properties. Only part of the Somers Road (A.K.A. Norris Drive) and the entire length of Norris Harbor Drive rights-of-way are located within the Critical Area setback.
 - 2) Proposed landscape mitigation within the Critical Area setback will enhance water quality through nutrient uptake and will reduce the possibility of shoreline erosion. Furthermore, all disturbed areas will be re-vegetated and will improve existing conditions. These factors combined will result in long term net improvements to water quality in the Chesapeake Bay.

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OCT 24 2005

CRITICAL AREA COMMISSION

- 3) To our knowledge, the project is in conformance with all provisions listed in Subtitle 02.
- C. The enclosed plans indicate that minimum criteria for conditional approval have been met as detailed below.
- 1) Since the entire project area is within the Norris Harbor Drive, 4th Street and Somers Road (A.K.A. Norris Drive) rights-of-way and the Critical Area setback, disturbance for construction activities would be prohibited by Chesapeake Bay Critical Area Program requirements. Therefore, a temporary disturbance and conditional approval to complete the project is requested.
 - 2) A sequence of operations for construction is presented on Sheet C3.1 of the approved Sediment and Erosion Control Plans. All measures and construction techniques shown on the approved construction plans will be followed throughout construction and are in accordance, insofar as possible, with the approved City of Crisfield Critical Area program. The proposed project area is located completely on lands owned by the City of Crisfield.
 - 3) Landscape mitigation will be provided within the Chesapeake Bay Critical Area setback as depicted on the enclosed plans. Mitigation will be at a rate of five (5) trees per 100 lineal feet along the 2309 lineal feet of Critical Area construction activities. This will result in the planting of 116 large trees. Details of species, planting density, and planting locations as well as mitigation computations are provided on Sheets C2.0 and C2.1.

Please feel free to contact me at 410-968-1333 with any questions or if additional information is needed.

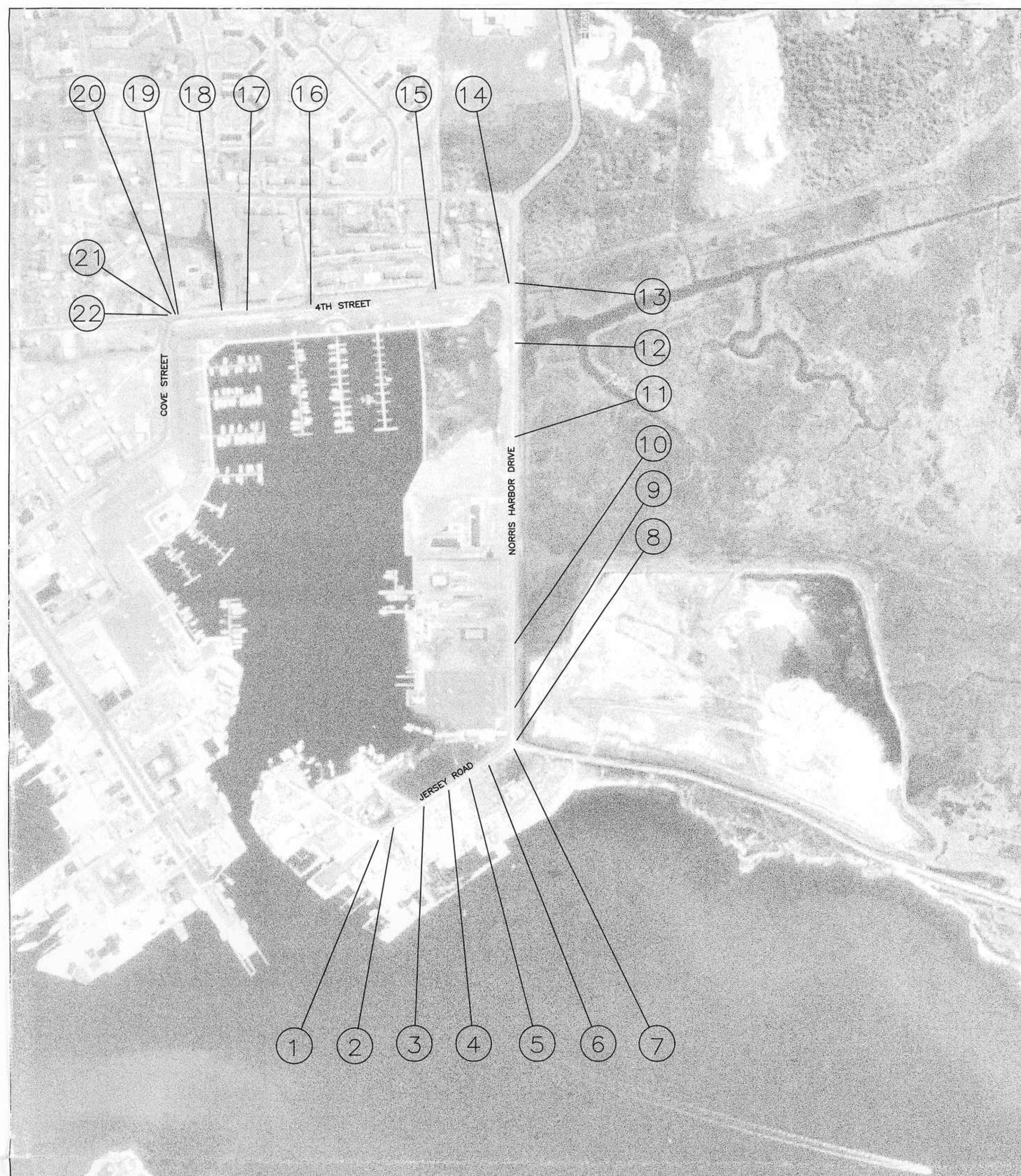
Thank you for your consideration.



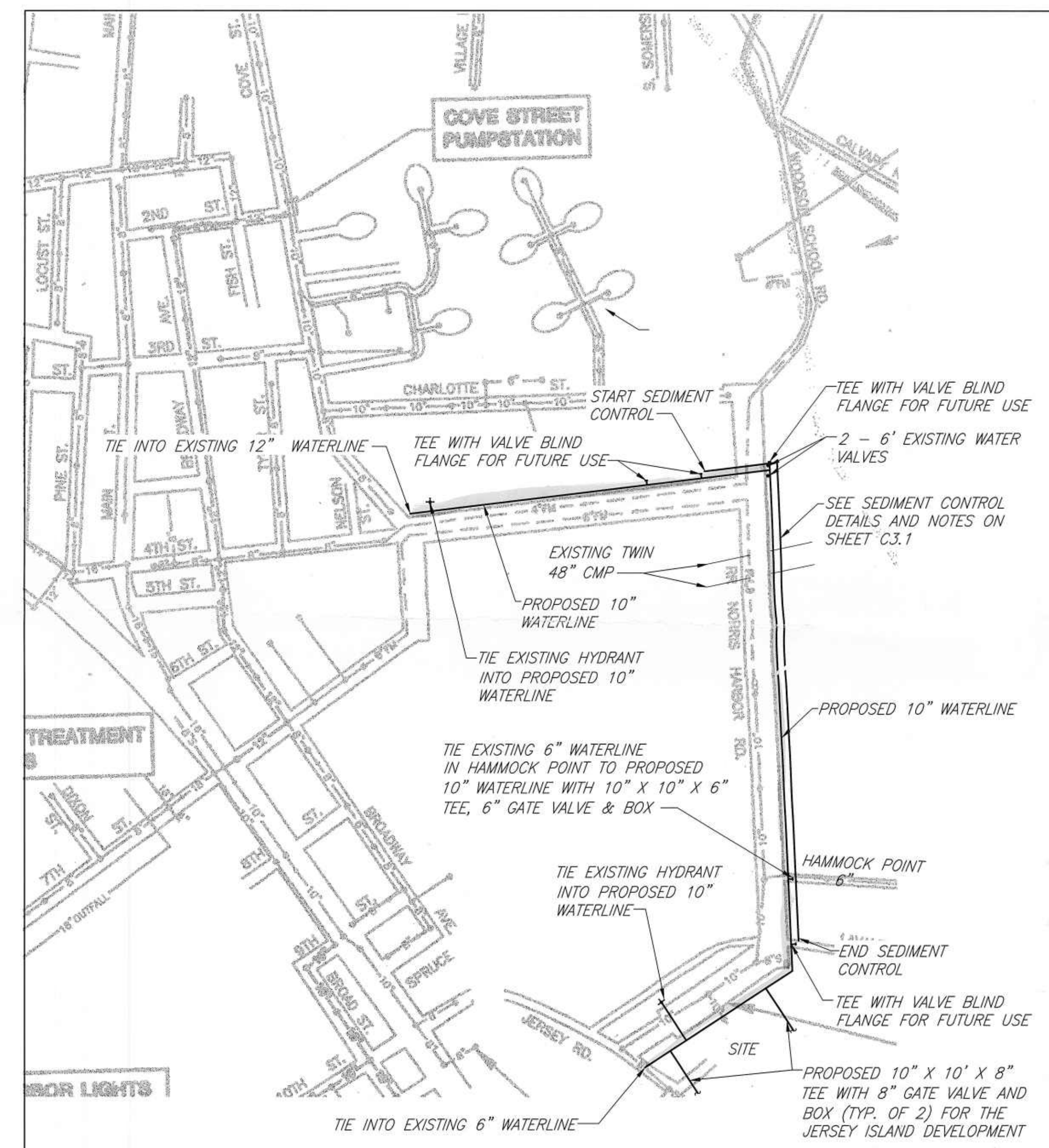
Cabbie Dize
City Manager, City of Crisfield

LEGEND

1 SEE PHOTOS FOR REFERENCE ONLY ON SHEETS REF1.0 & REF2.0.



OVERALL AERIAL VIEW OF WATERLINE PLAN
NO SCALE



OVERALL WATERLINE PLAN AND SEDIMENT CONTROL PLAN
NO SCALE

GMB

GEORGE, MILES & BUHR, LLC
ARCHITECTS & ENGINEERS
SALISBURY • BALTIMORE • LEWES • SEAFORD • YORK
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PROPOSED SITE PLAN

DESIGN	DPM	SHEET NO.
DRAWN	JSS	C1.0
CHECKED	DPM	
JOB	2005.012	
DATE	SEPTEMBER 2005	DRAWING OF

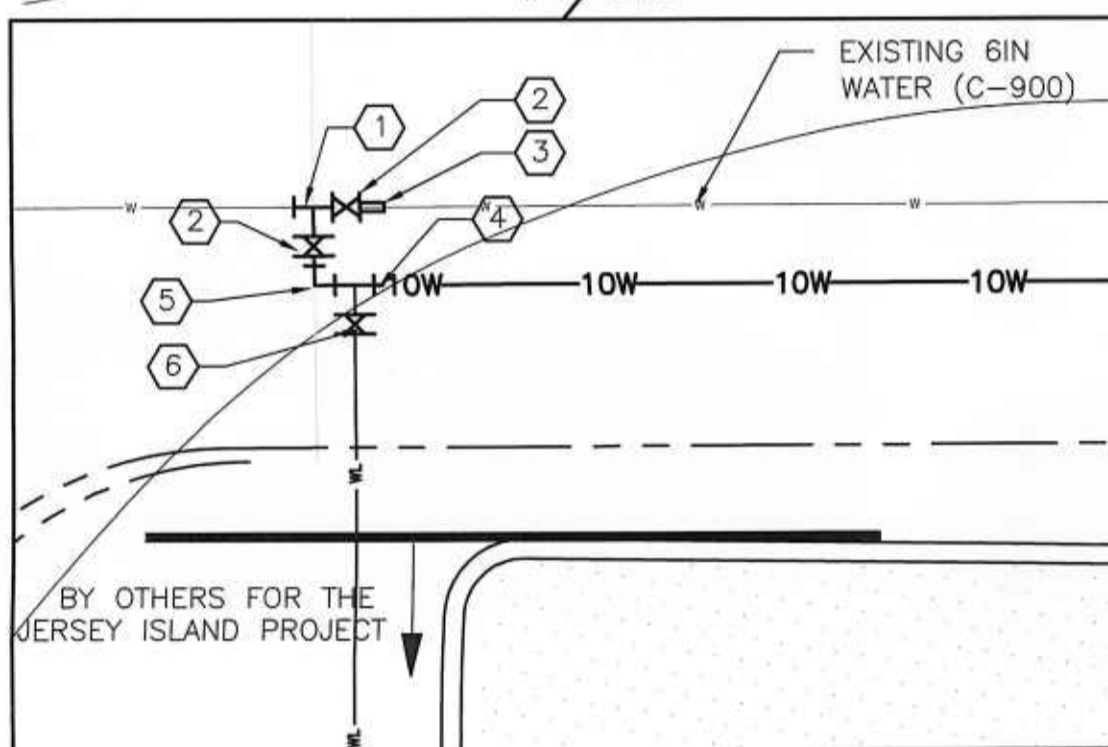
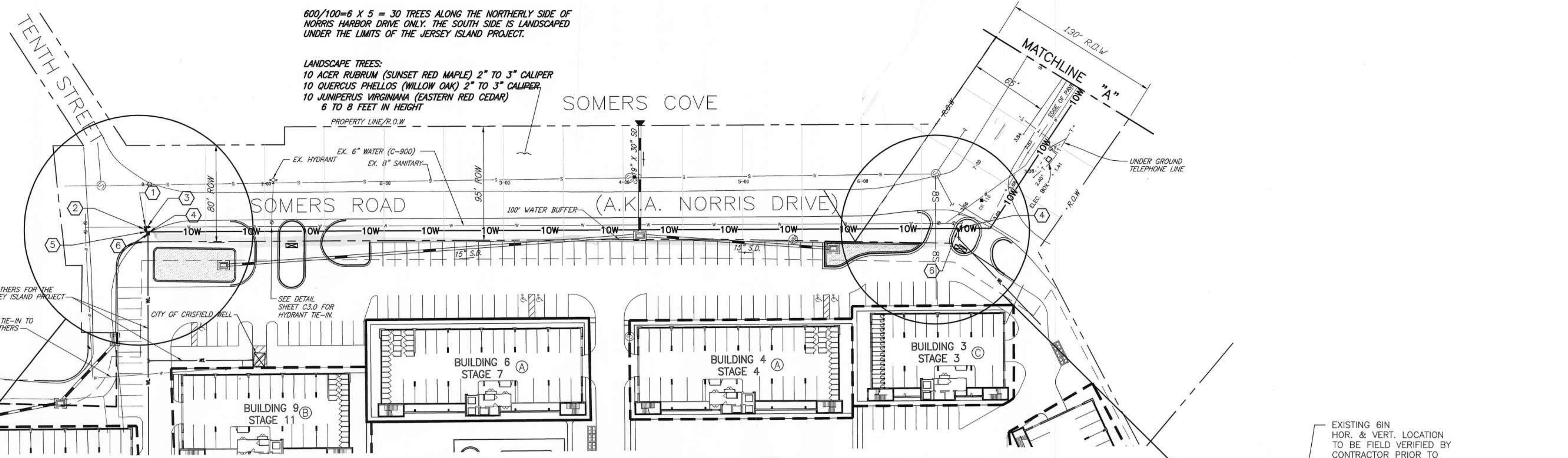
NO.	DATE	REVISIONS
1	10/7/05	PER DBF REVIEW LETTER 9/26/05
2	10/20/05	100' CRITICAL AREA BUFFER

PROPOSED 10" WATER LINE
SOMERSET COUNTY
CRISFIELD, MARYLAND

LANDSCAPING IN THIS AREA IS BASED ON 600 LIN. FEET OF BUFFER FRONTAGE DISTURBANCE AT 5 TREES PER 100 LIN. FEET.

$600/100=6 \times 5 = 30$ TREES ALONG THE NORTHERLY SIDE OF NORRIS HARBOR DRIVE ONLY. THE SOUTH SIDE IS LANDSCAPED UNDER THE LIMITS OF THE JERSEY ISLAND PROJECT.

LANDSCAPE TREES:
 10 ACER RUBRUM (SUNSET RED MAPLE) 2" TO 3" CALIPER
 10 QUERCUS PHELLOS (WILLOW OAK) 2" TO 3" CALIPER
 10 JUNIPERUS VIRGINIANA (EASTERN RED CEDAR) 6 TO 8 FEET IN HEIGHT



CONSTRUCTION NOTES:

- ① 6X6X6 TEE (1 REQUIRED)
- ② 6" GATE VALVE @ BOX (2 REQUIRED)
- ③ 6" CUTTING IN SLEEVE (1 REQUIRED)
- ④ 10X10X8 TEE (2 REQUIRED)
- ⑤ 10X6 90° REDUCING ELBOW (1 REQUIRED)
- ⑥ 8" GATE VALVE @ BOX (2 REQUIRED)
- ⑦ 10" GATE VALVE & BOX (1 REQUIRED)

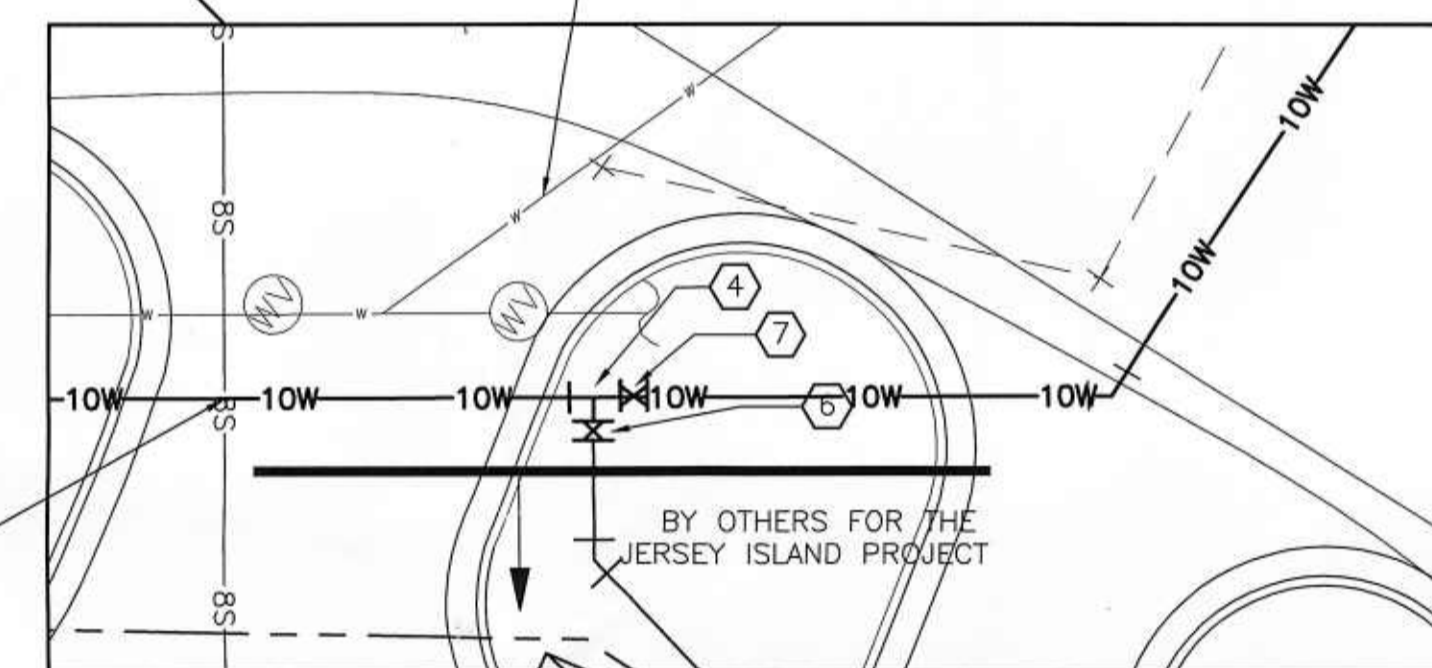
NOTES:

- 1. PROFILE GRADES REPRESENT ELEVATIONS ABOVE THE EXISTING 6" WATER LINE.
- 2. CONTRACTOR TO MAINTAIN A MINIMUM OF 3.00 FEET FROM OUTSIDE OF EXISTING 6" WATER LINE TO THE OUTSIDE OF PROPOSED 10" WATER LINE.

WATER EXHIBIT
 SCALE: 1" = 50'-0"

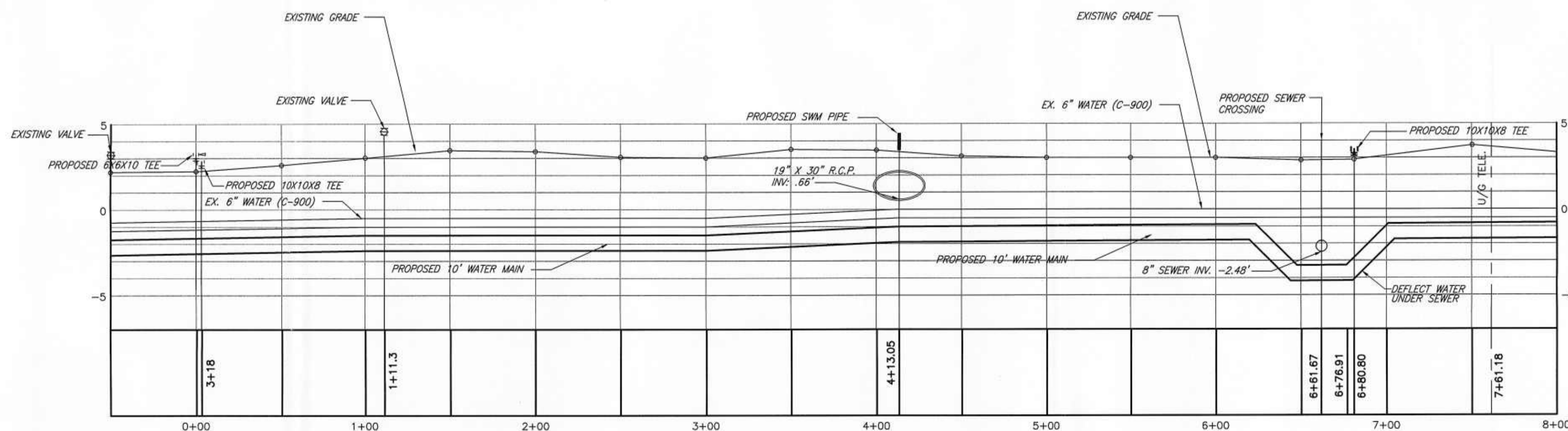
NOTE:
 100 FT. CRITICAL AREA BUFFER ZONE WAS CALCULATED BY OFFSETTING THE WATER'S EDGE BY 100 FT. INLAND.

AREA OF BUFFER = 595 LIN. FT.
 AREA OF NON-BUFFER = 252 LIN. FT.
 TOTAL THIS PAGE = 847 LIN. FT.

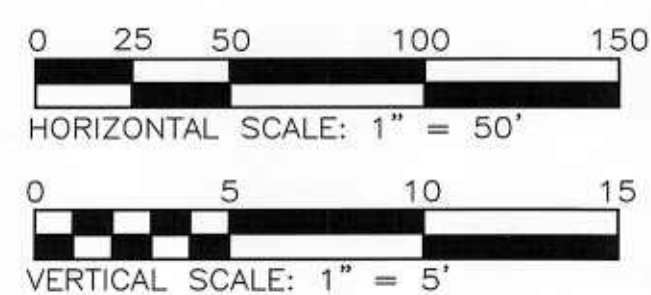


SCALE: 1" = 10'
 0 5 10'

SCALE: 1" = 10'
 0 5 10'



SOMERS ROAD
 SCALE: HOR: 1" = 50'-0"
 VERT: 1" = 5'-0"



NO.	DATE	REVISIONS
1	10/7/05	PER DBF REVIEW LETTER 9/26/05
2	10/20/05	100' CRITICAL AREA BUFFER

PROPOSED 10" WATER LINE
 SOMERSET COUNTY
 CRISFIELD, MARYLAND

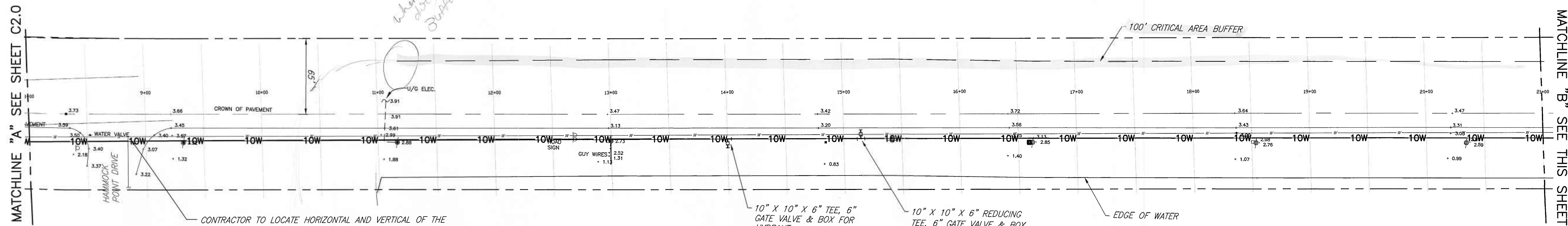
RECEIVED
 OCT 21 2005
 CRITICAL AREA COMMISSION

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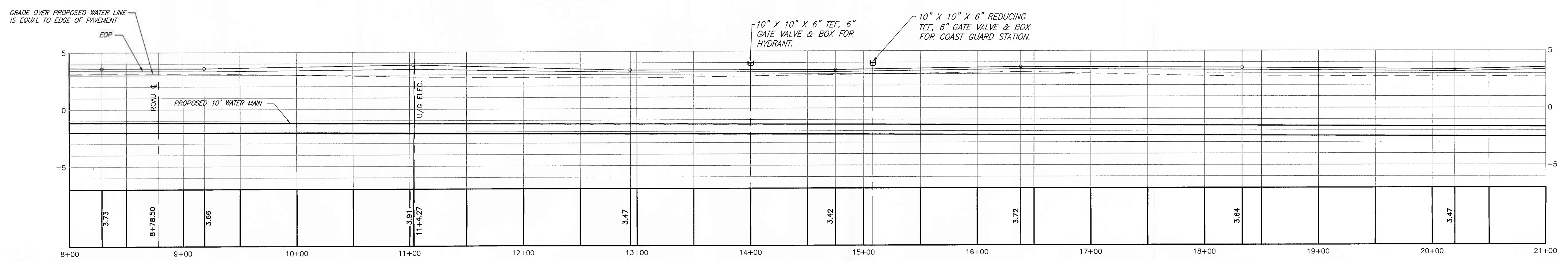
PROPOSED 10" WATER LINE

DESIGN	DP	SHEET NO.
DRAWN	JS,NH	C2.0
CHECKED	JK	
JOB	2005.012	
DATE	SEPTEMBER 2005	DRAWING 1 OF

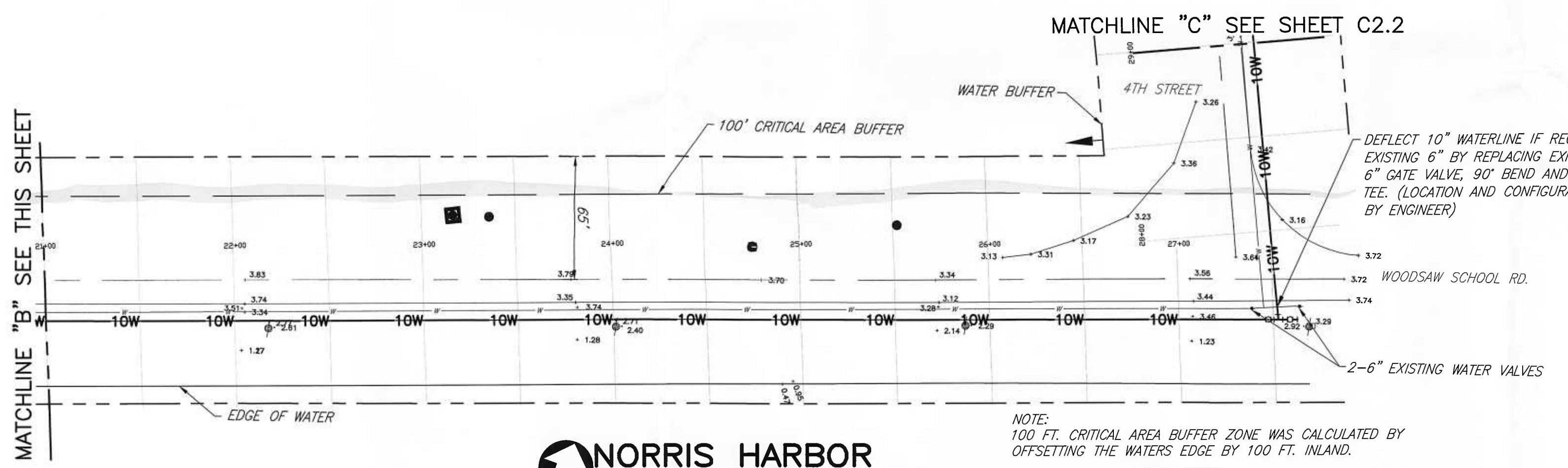


NORRIS HARBOR
SCALE: 1" = 50'-0"

NOTE:
100 FT. CRITICAL AREA BUFFER ZONE WAS CALCULATED BY
OFFSETTING THE WATERS EDGE BY 100 FT. INLAND.
AREA OF BUFFER = 985 LIN. FT.
AREA OF NON-BUFFER = 316 LIN. FT.
TOTAL THIS PAGE = 1301 LIN. FT.

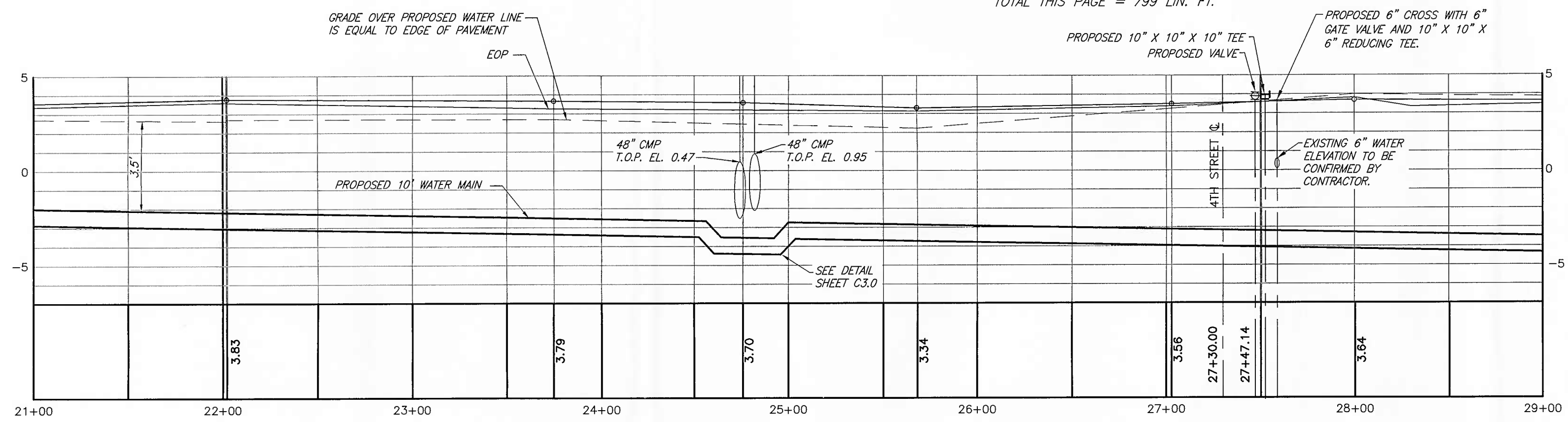


NORRIS HARBOR
SCALE HOR: 1" = 50'-0"
VERT: 1" = 5'-0"



NORRIS HARBOR
SCALE: 1" = 50'-0"

NOTE:
100 FT. CRITICAL AREA BUFFER ZONE WAS CALCULATED BY
OFFSETTING THE WATERS EDGE BY 100 FT. INLAND.
AREA OF BUFFER = 729 LIN. FT.
AREA OF NON-BUFFER = 70 LIN. FT.
TOTAL THIS PAGE = 799 LIN. FT.



NORRIS HARBOR
SCALE HOR: 1" = 50'-0"
VERT: 1" = 5'-0"

LANDSCAPING ALONG NORRIS HARBOR DRIVE IS BASED ON 1714 LIN. FEET OF BUFFER FRONTAGE DISTURBANCE AT 5 TREES PER 100 LIN. FEET.

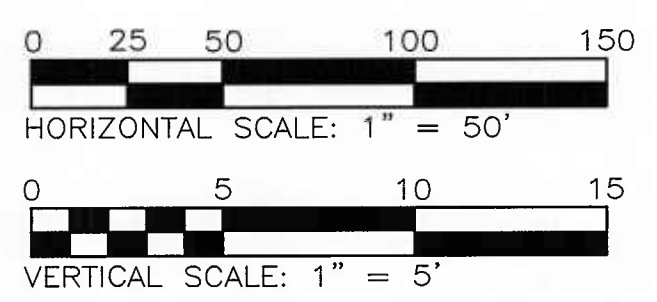
$1714/100 = 17.14 \times 5 = 85.7$ OR 86 TREES

LANDSCAPE TREES:

- 28 ACER RUBRUM (SUNSET RED MAPLE) 2" TO 3' CALIPER
- 29 QUERCUS PHELLOS (WILLOW OAK) 2" TO 3' CALIPER
- 29 JUNIPERUS VIRGINIANA (EASTERN RED CEDAR) 6 TO 8 FEET IN HEIGHT

THE LANDSCAPE TREES ARE TO SPACED ALONG BOTH SIDES OF NORRIS HARBOR DRIVE AS FOLLOWS:
ALONG THE SOUTH SIDE OF NORRIS HARBOR THE TREES ARE TO PLACED 15 FEET NORTH OF THE POWER POLE LINE.
ALONG THE NORTH SIDE OF NORRIS HARBOR THE TREES ARE TO BE PLACED 35 FEET NORTH OF THE NORTH EDGE OF PAVEMENT.

NOTES:
1. CONTRACTOR TO MAINTAIN A MINIMUM OF 3.00 FEET FROM OUTSIDE OF EXISTING 6" WATER LINE TO THE OUTSIDE OF PROPOSED 10" WATER LINE.



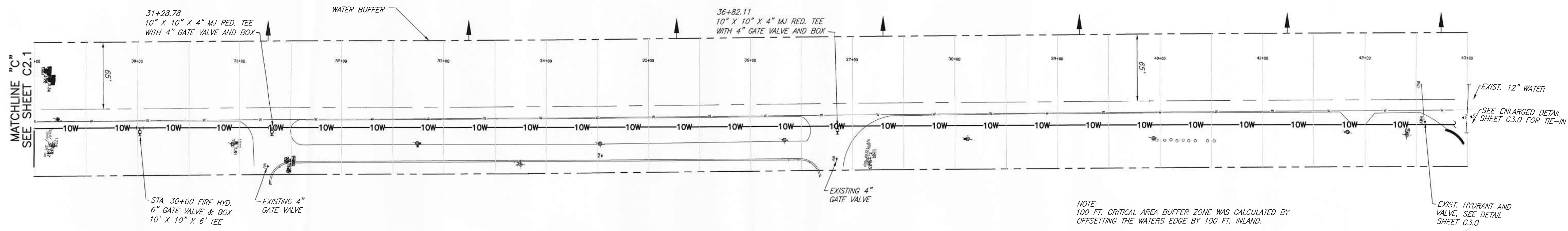
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PROPOSED 10" WATER LINE

NO.	DATE	REVISIONS
1	10/7/05	PER DBF REVIEW LETTER 9/26/05
2	10/20/05	100' CRITICAL AREA BUFFER

PROPOSED 10" WATER LINE
SOMERSET COUNTY
CRISFIELD, MARYLAND

DESIGN	DPM	SHEET NO. C2.1
DRAWN	JSS	
CHECKED	DPM	
JOB	2005.012	
DATE	SEPTEMBER 2005	DRAWING OF

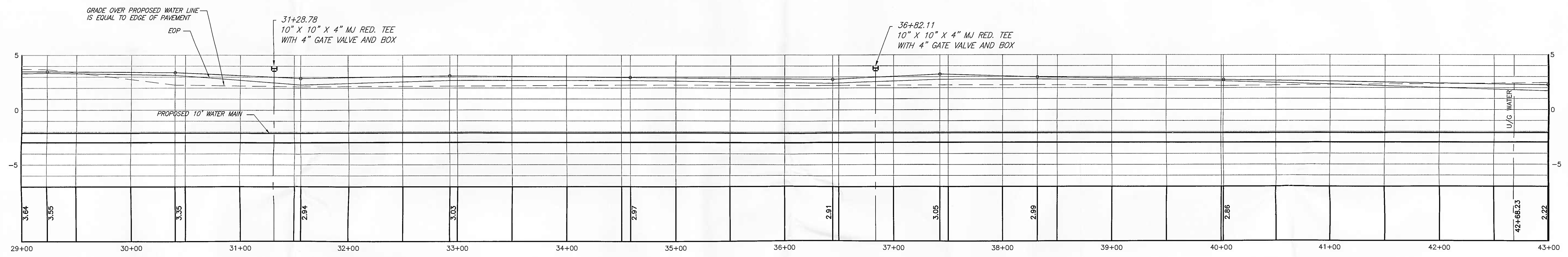


4TH STREET
SCALE: 1" = 50'-0"

NOTE:
100 FT. CRITICAL AREA BUFFER ZONE WAS CALCULATED BY
OFFSETTING THE WATER'S EDGE BY 100 FT. INLAND.
AREA OF BUFFER = 0 LIN. FT.
AREA OF NON-BUFFER = 1388 LIN. FT.
TOTAL THIS PAGE = 1388 LIN. FT.

6912
6917

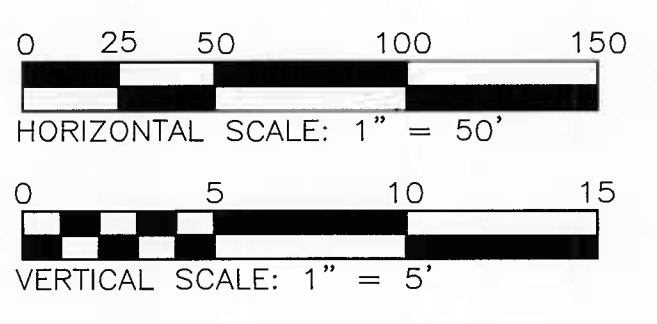
Total Buffer = 2309?



4TH STREET
SCALE HOR: 1" = 50'-0"
VERT: 1" = 5'-0"

57 trees
also shrubs

- NOTES:**
1. PROFILE GRADES REPRESENT ELEVATIONS ABOVE THE EXISTING 6" WATER LINE.
 2. CONTRACTOR TO MAINTAIN A MINIMUM OF 3.00 FEET FROM OUTSIDE OF EXISTING 6" WATER LINE TO THE OUTSIDE OF PROPOSED 10" WATER LINE.

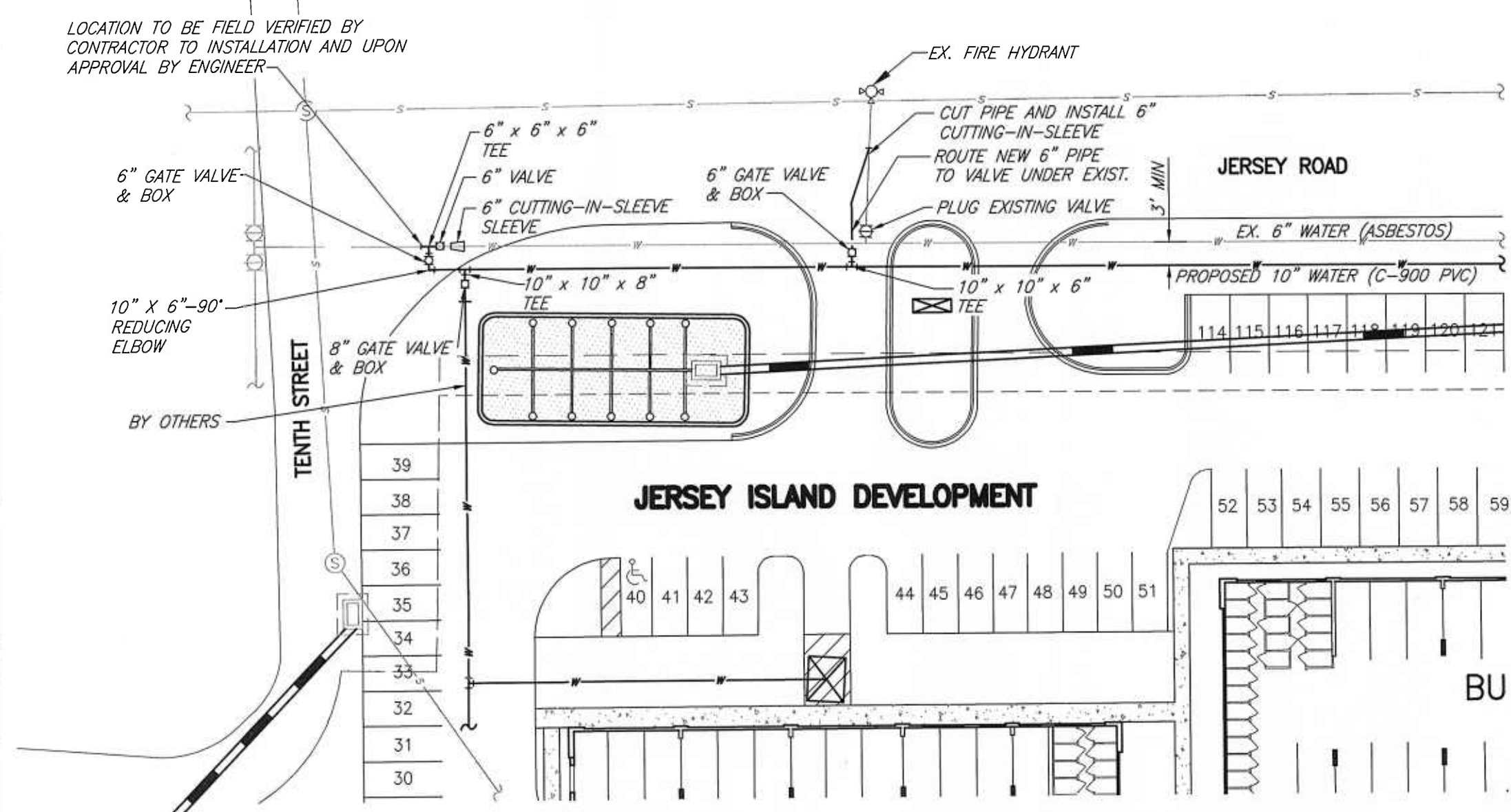


NO.	DATE	REVISIONS
1	10/7/05	PER DBF REVIEW LETTER 9/26/05
2	10/20/05	100' CRITICAL AREA BUFFER

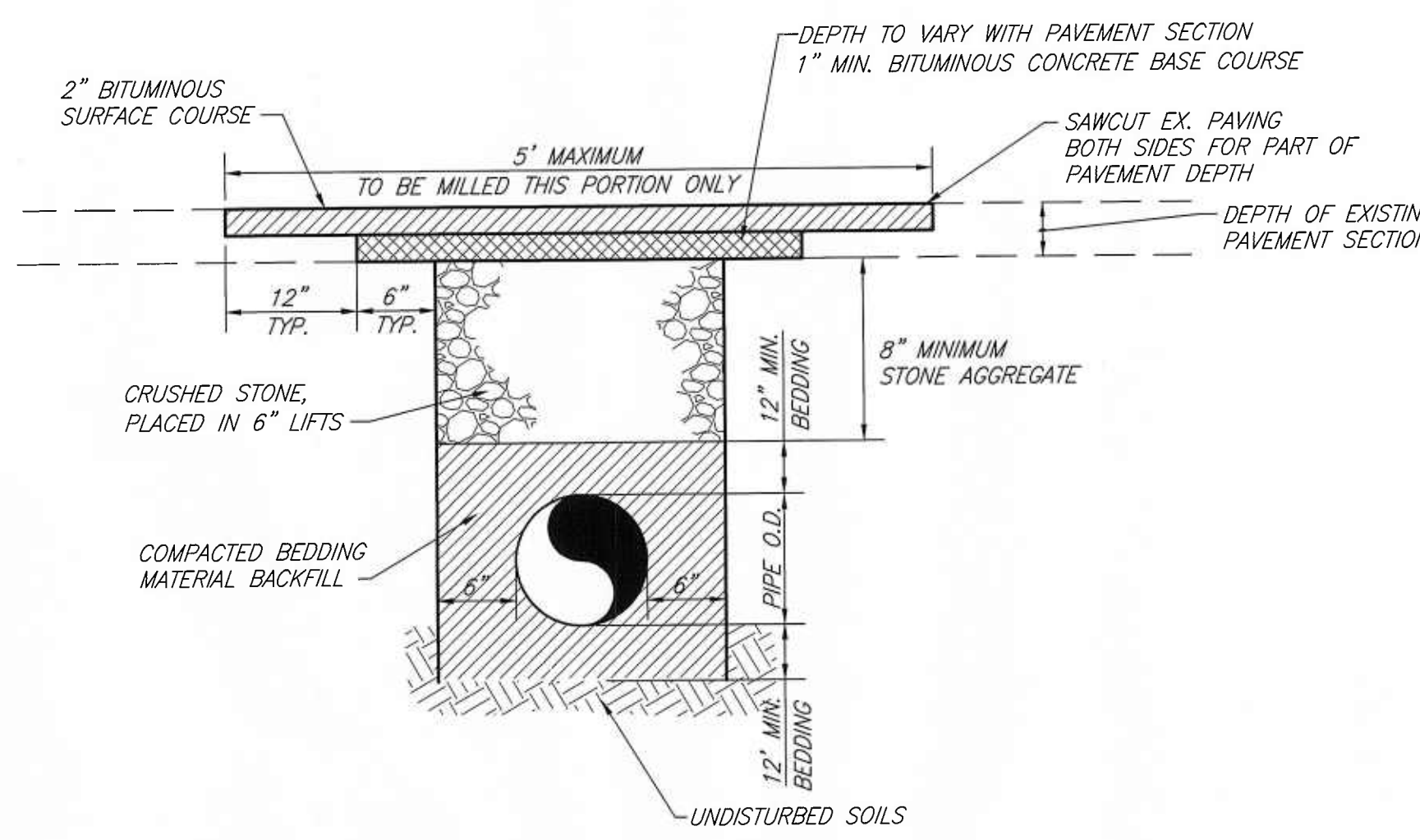
PROPOSED 10" WATER LINE
SOMERSET COUNTY
CRISFIELD, MARYLAND

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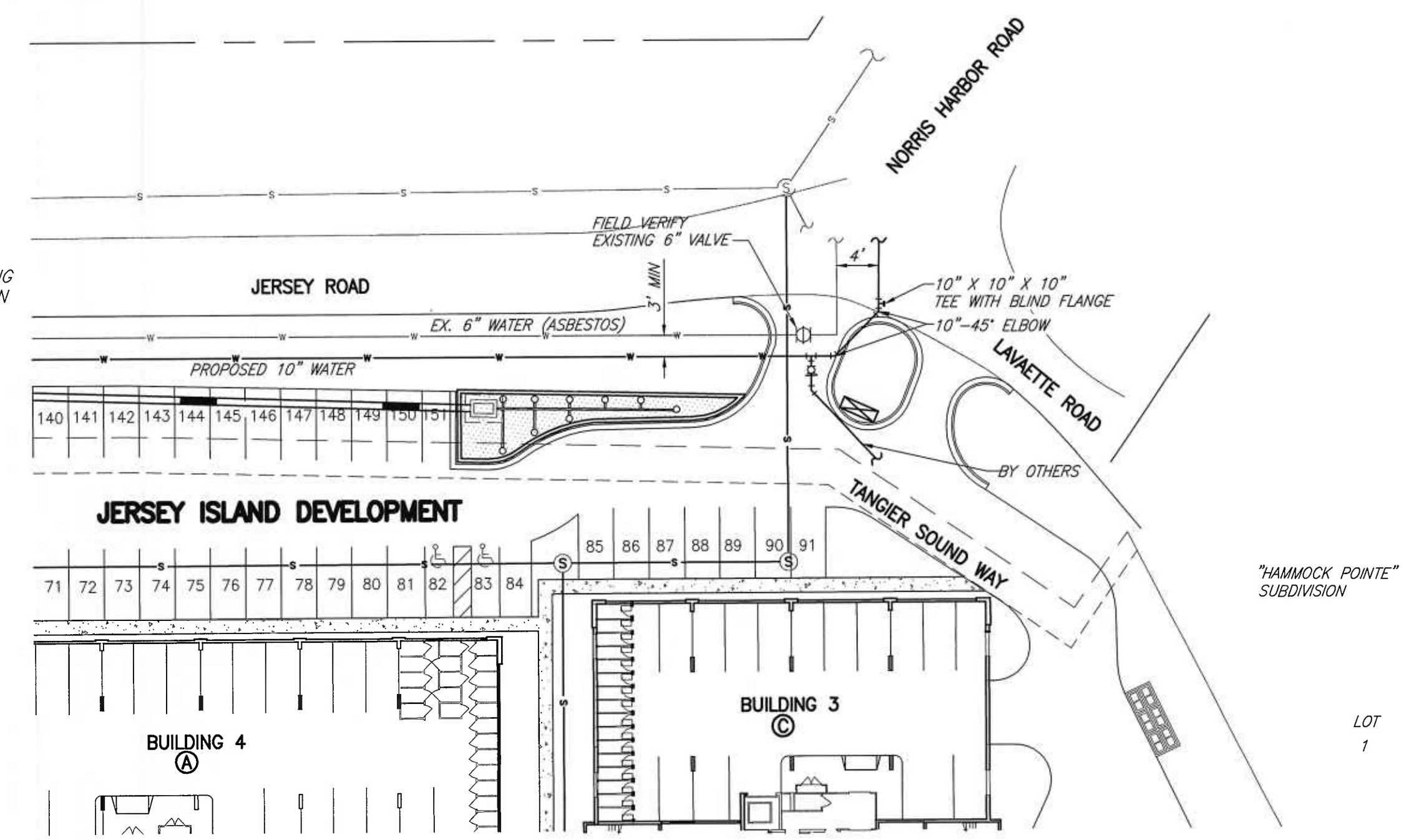
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DESIGN	DPM	C2.2
DRAWN	JSS	
CHECKED	DPM	DRAWING OF
JOB	2005.012	
DATE	SEPTEMBER 2005	



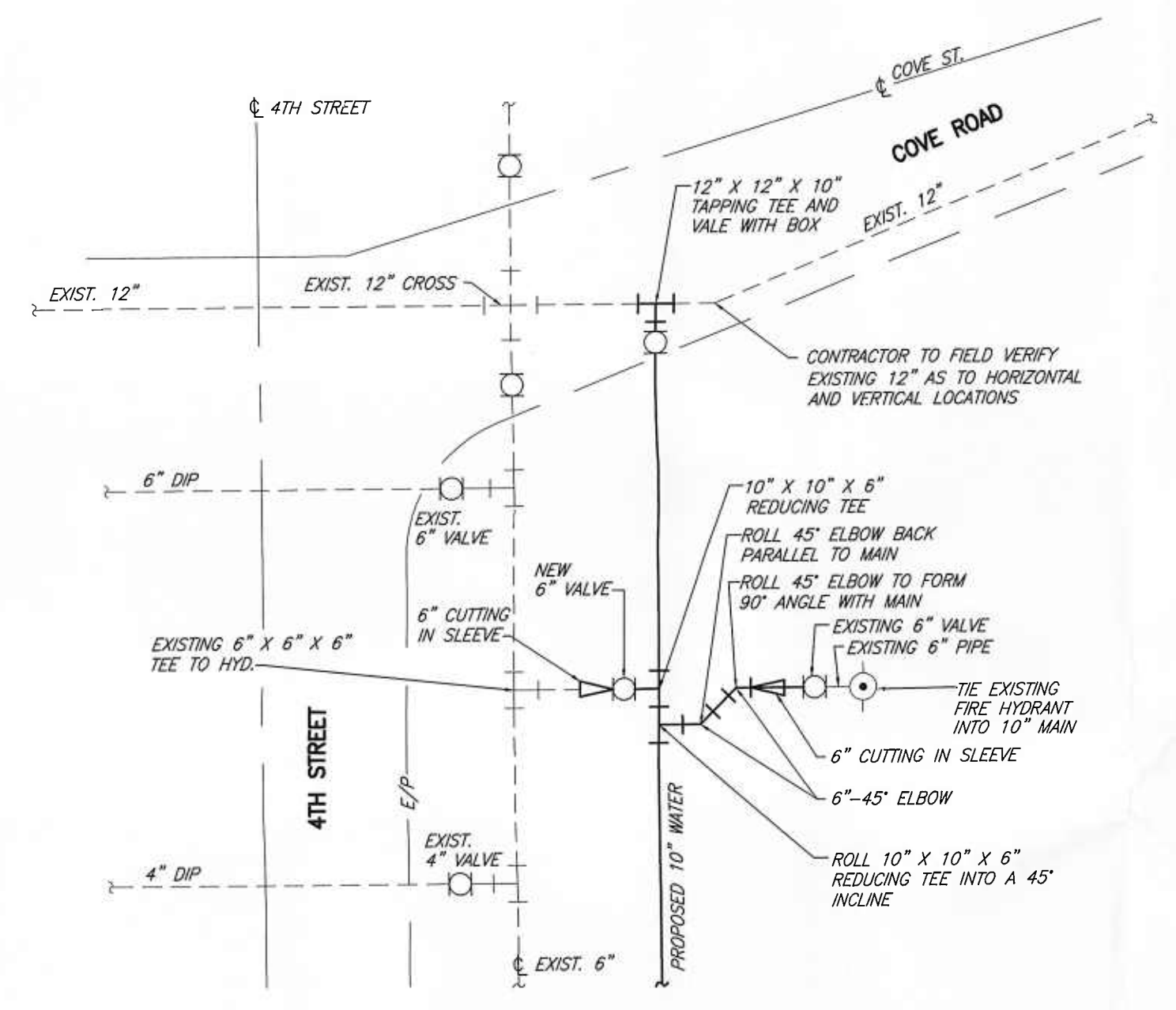
NEW 10" WATER AT JERSEY RD.
NO SCALE



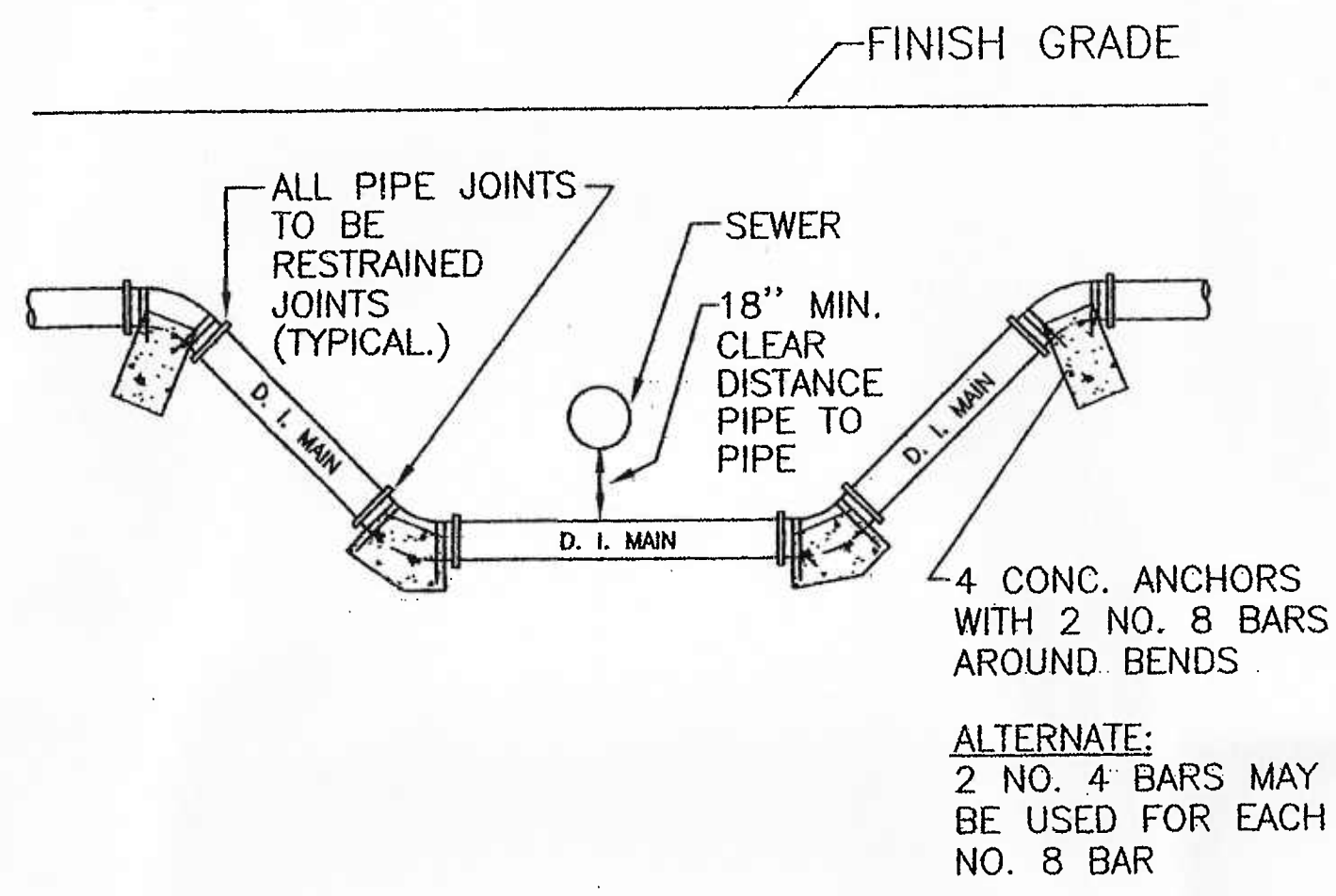
BITUMINOUS PAVEMENT CROSSING REPAIR
NOT TO SCALE



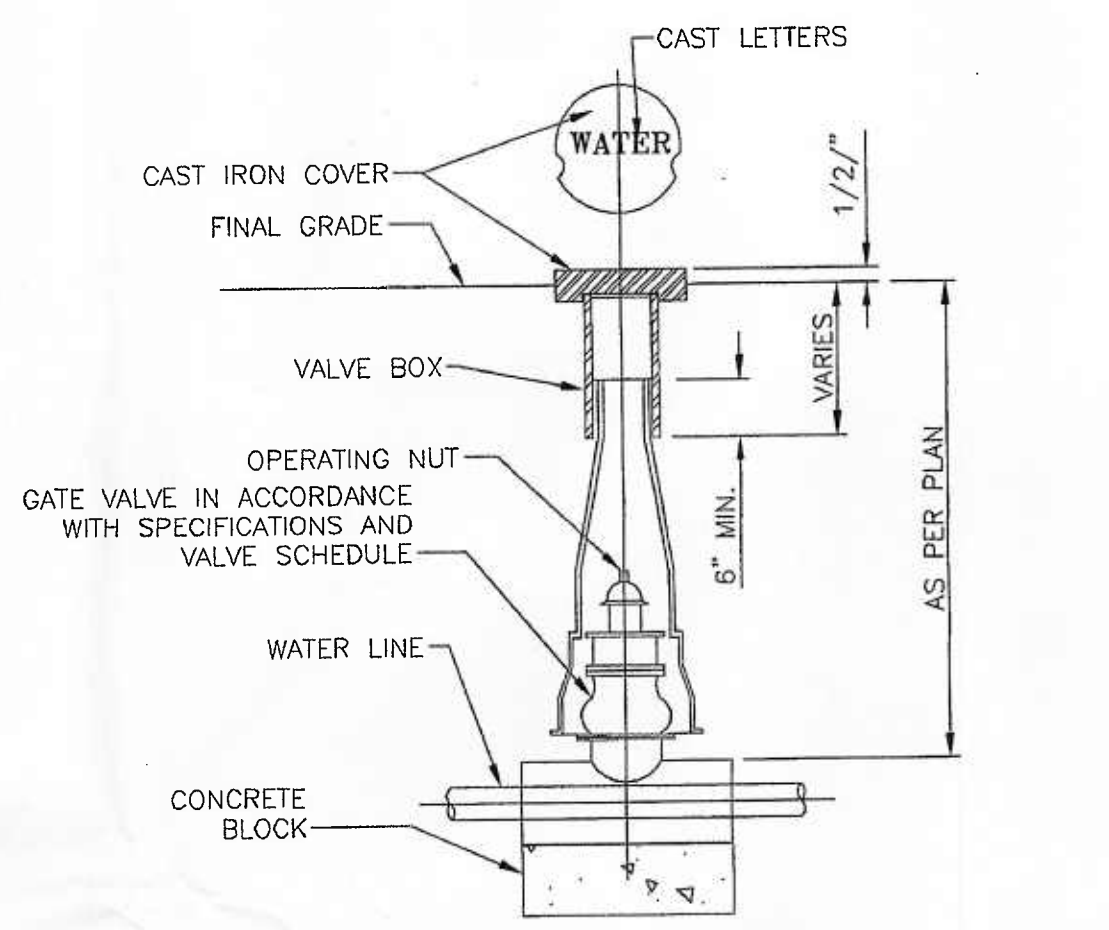
NEW 10" WATER AT ENTRANCE
NO SCALE



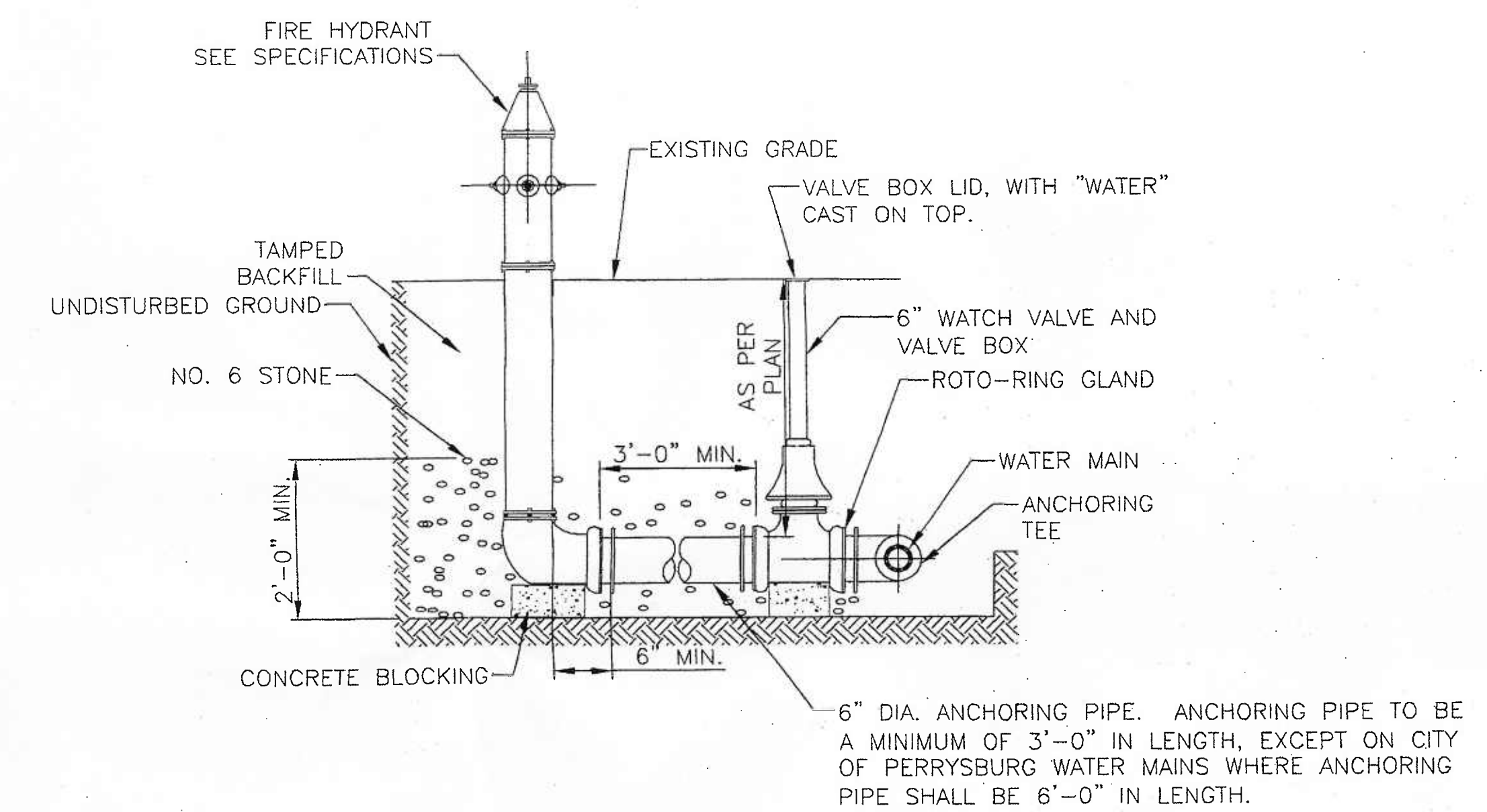
NEW 10" WATER AT COVE ST.
NO SCALE



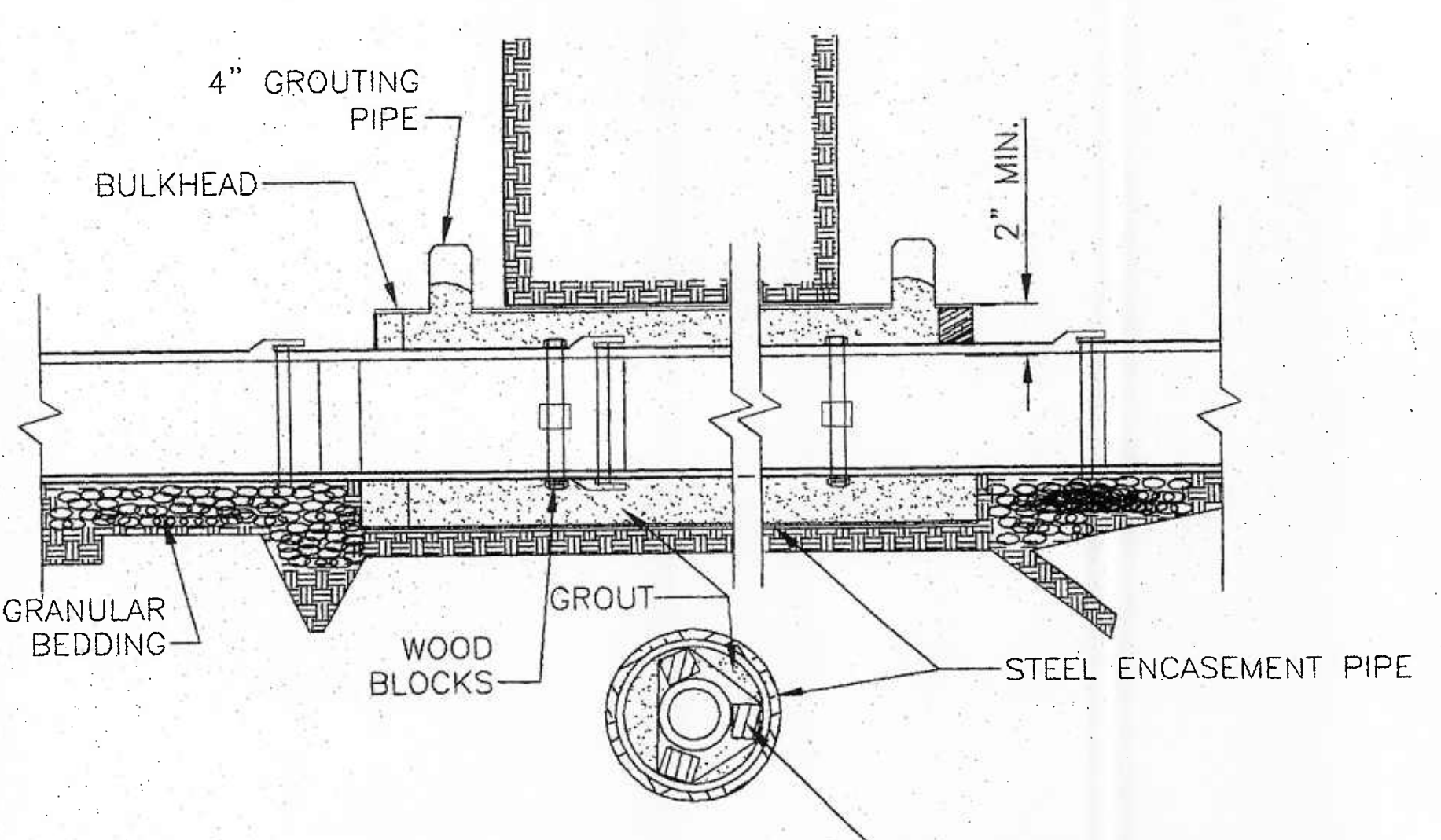
DEFLECTION FOR CONFLICT WITH UTILITIES
NOT TO SCALE



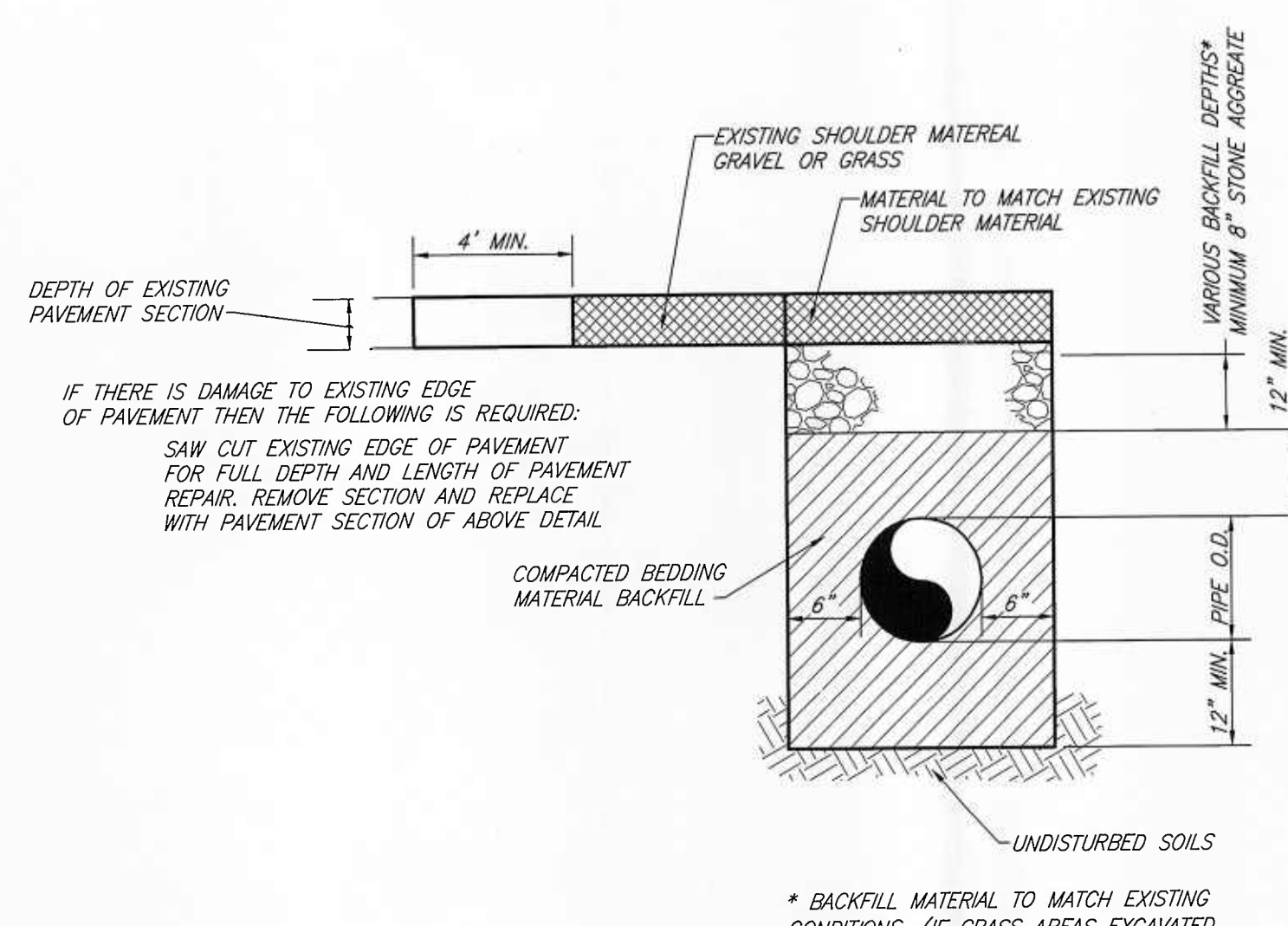
GATE VALVE DETAIL FOR WATERLINES 10" AND SMALLER
NOT TO SCALE



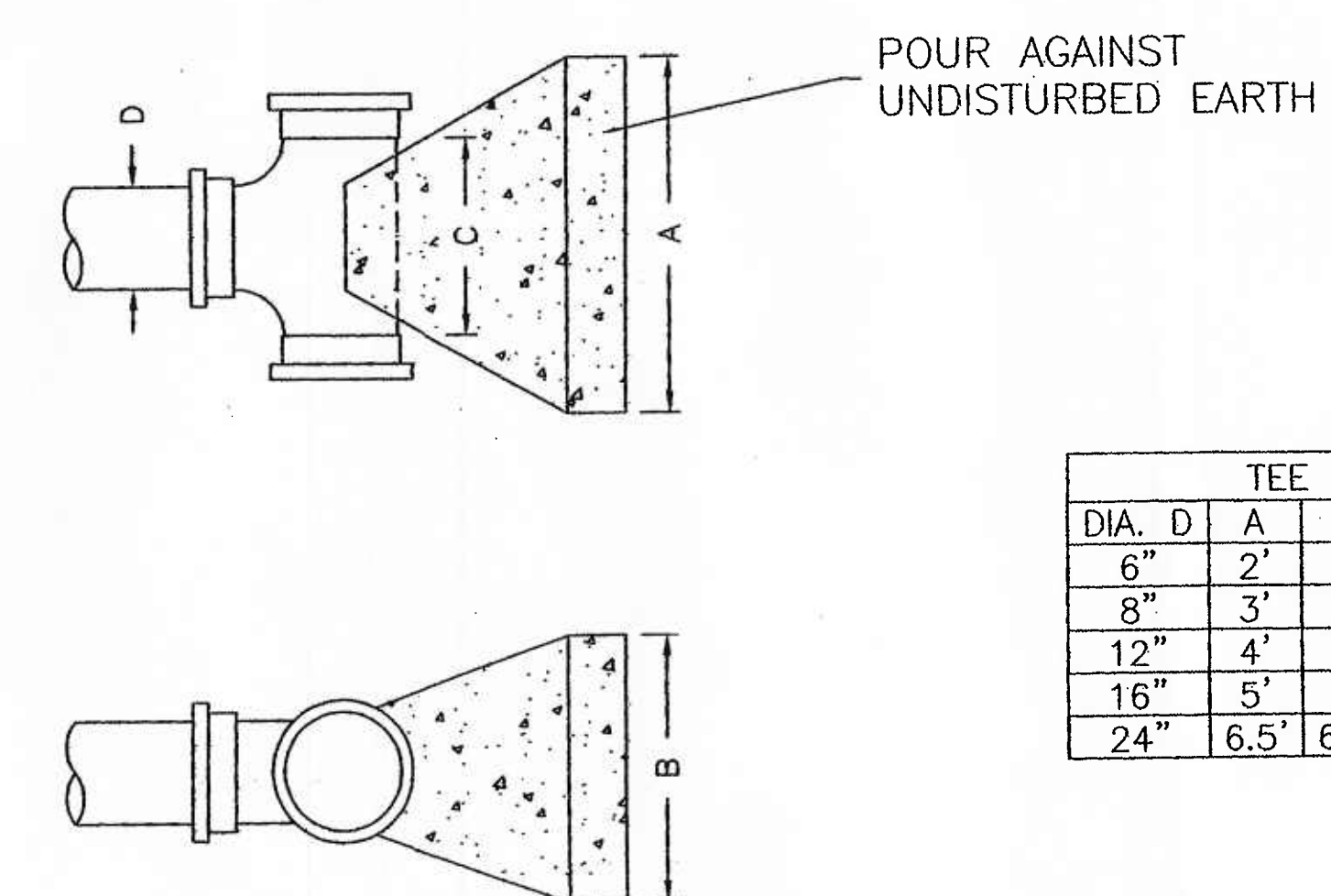
HYDRANT DETAIL PERPENDICULAR TO WATER MAIN HYDRANT ASSEMBLY
NOT TO SCALE



TYPICAL WATER AND STORM DRAIN CROSSING
SCALE: NTS

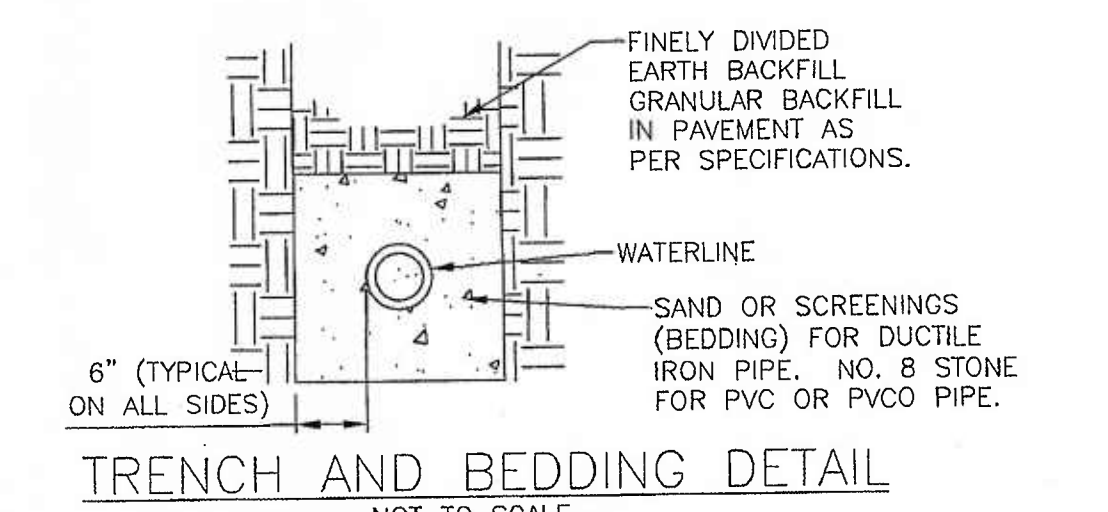


BITUMINOUS PAVEMENT REPAIR FOR SHOULDER WORK
NOT TO SCALE



THRUST BLOCK AT TEE
NOT TO SCALE

TEE			
DIA. D	A	B	C
6"	2'	2'	2'
8"	3'	2'	2'
12"	4'	4'	2.5'
16"	5'	5'	2.5'
24"	6.5'	6.5'	3.5'



TRENCH AND BEDDING DETAIL
NOT TO SCALE

NO.	DATE	REVISIONS
1	10/7/05	PER DBF REVIEW LETTER 9/26/05
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PROPOSED 10" WATER LINE
SOMERSET COUNTY
CRISFIELD, MARYLAND

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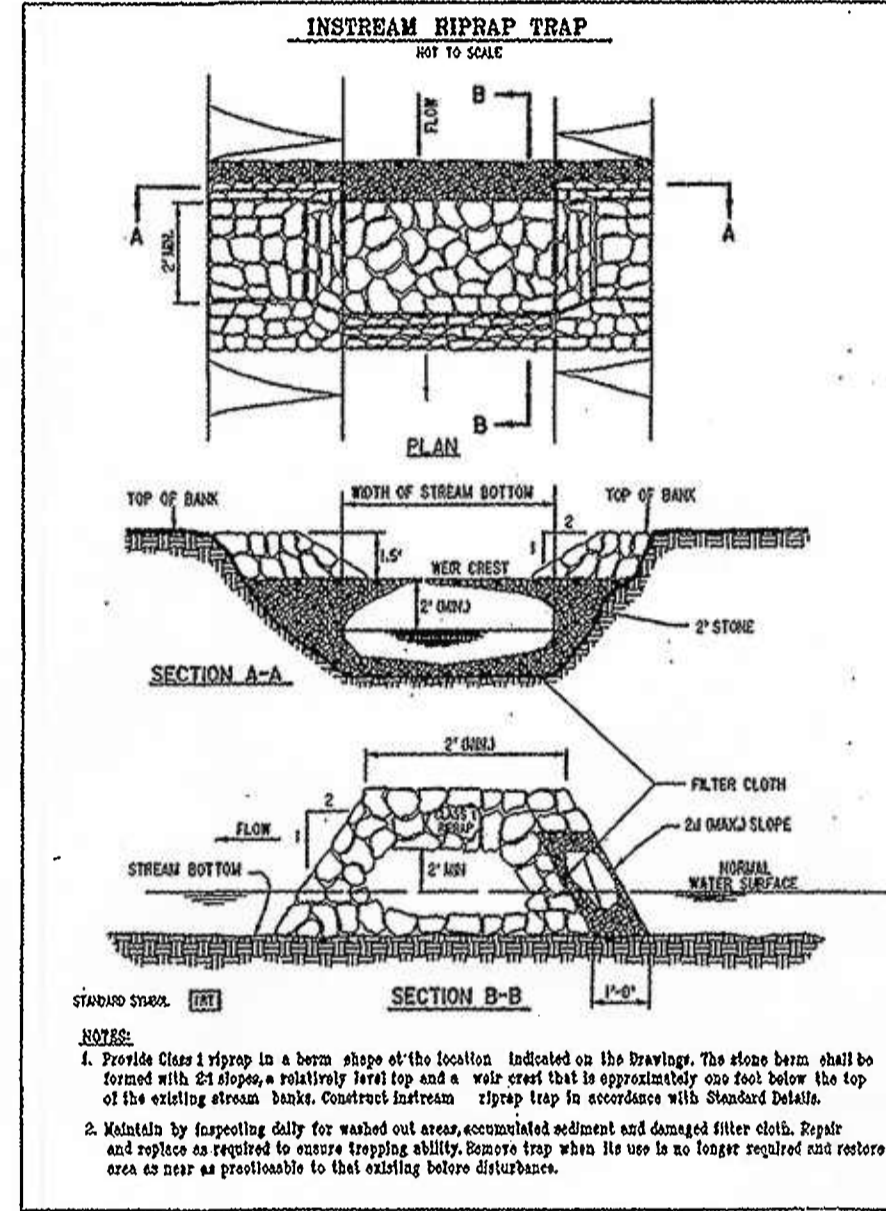
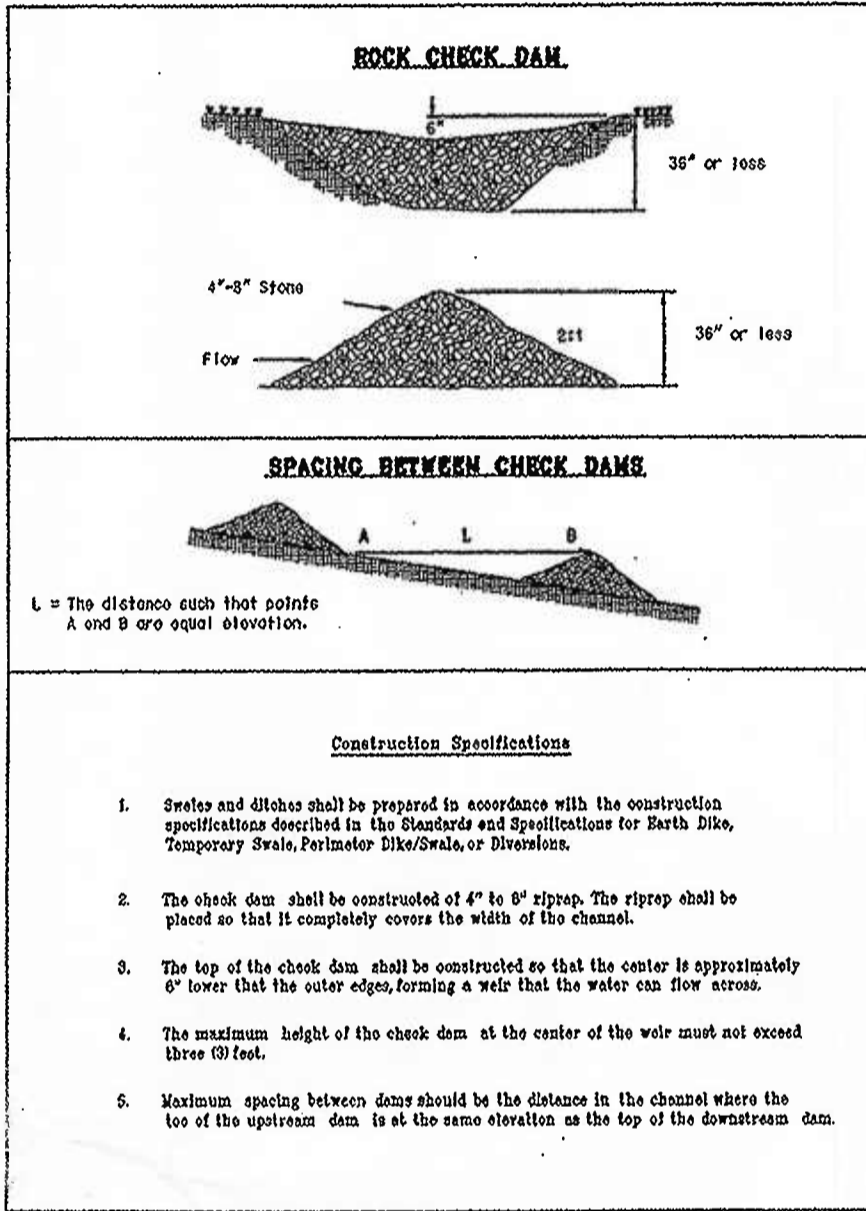
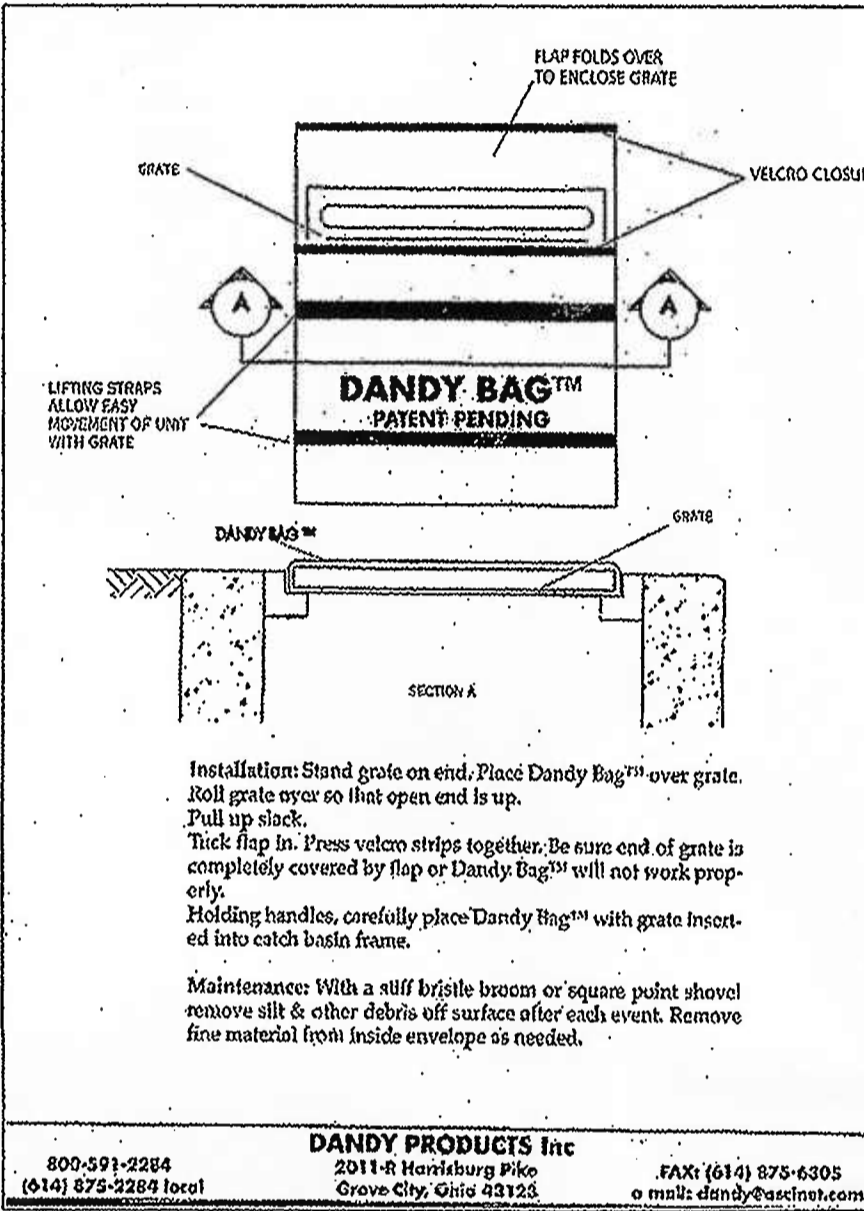
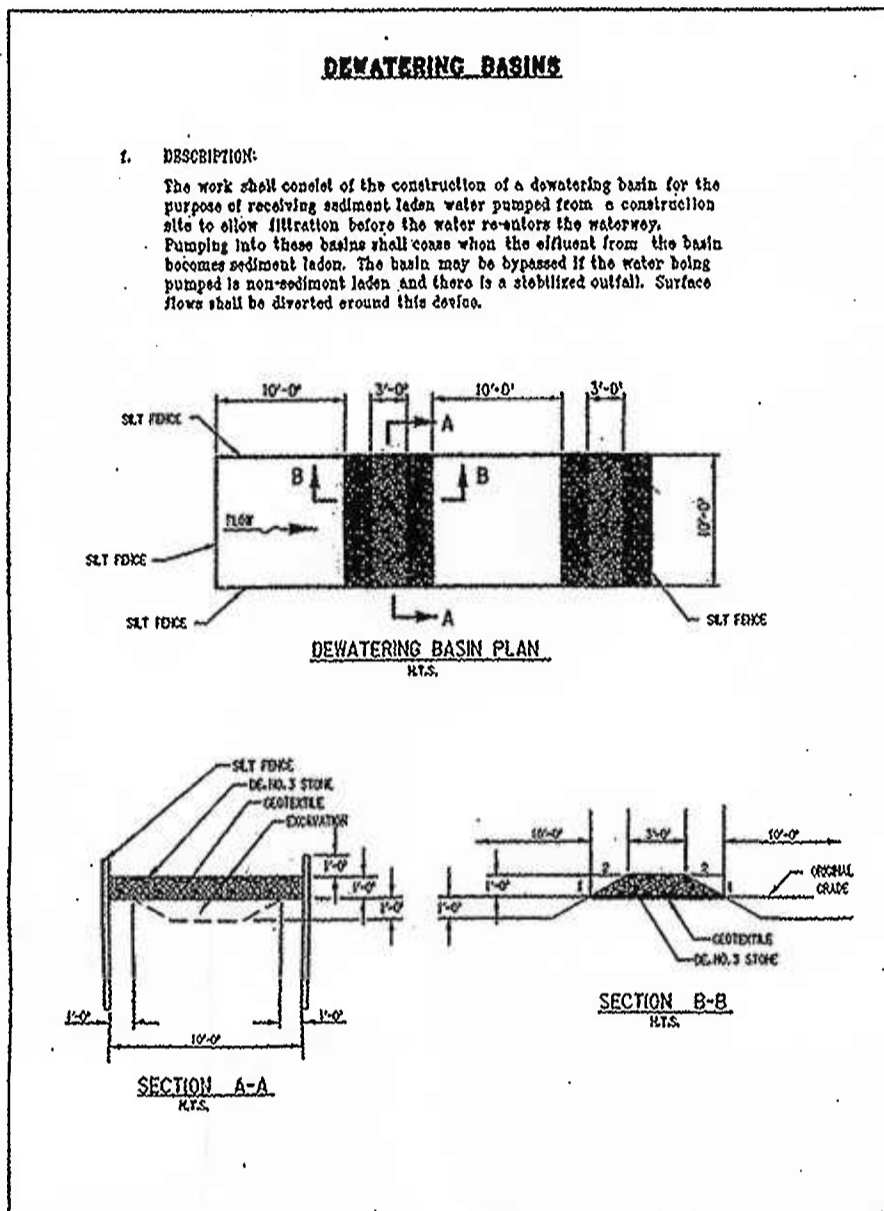
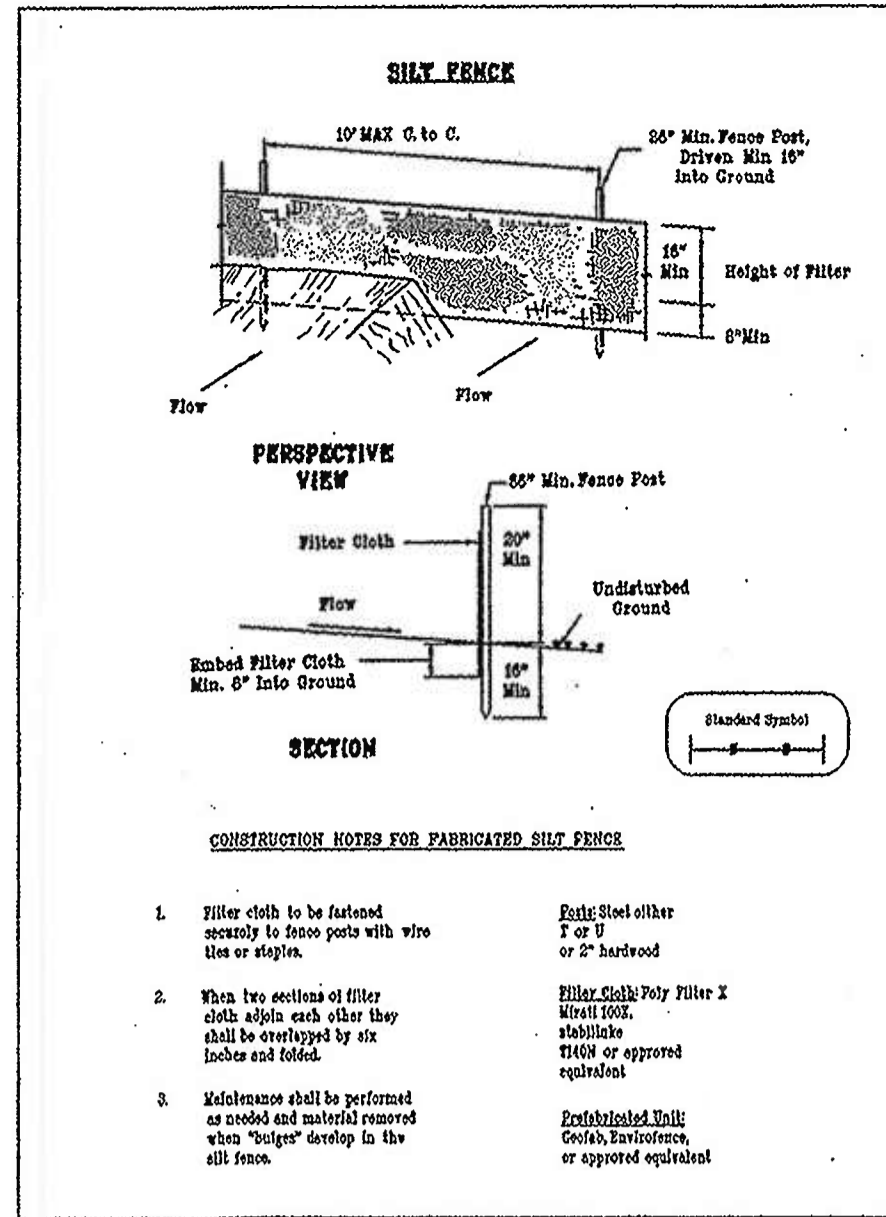
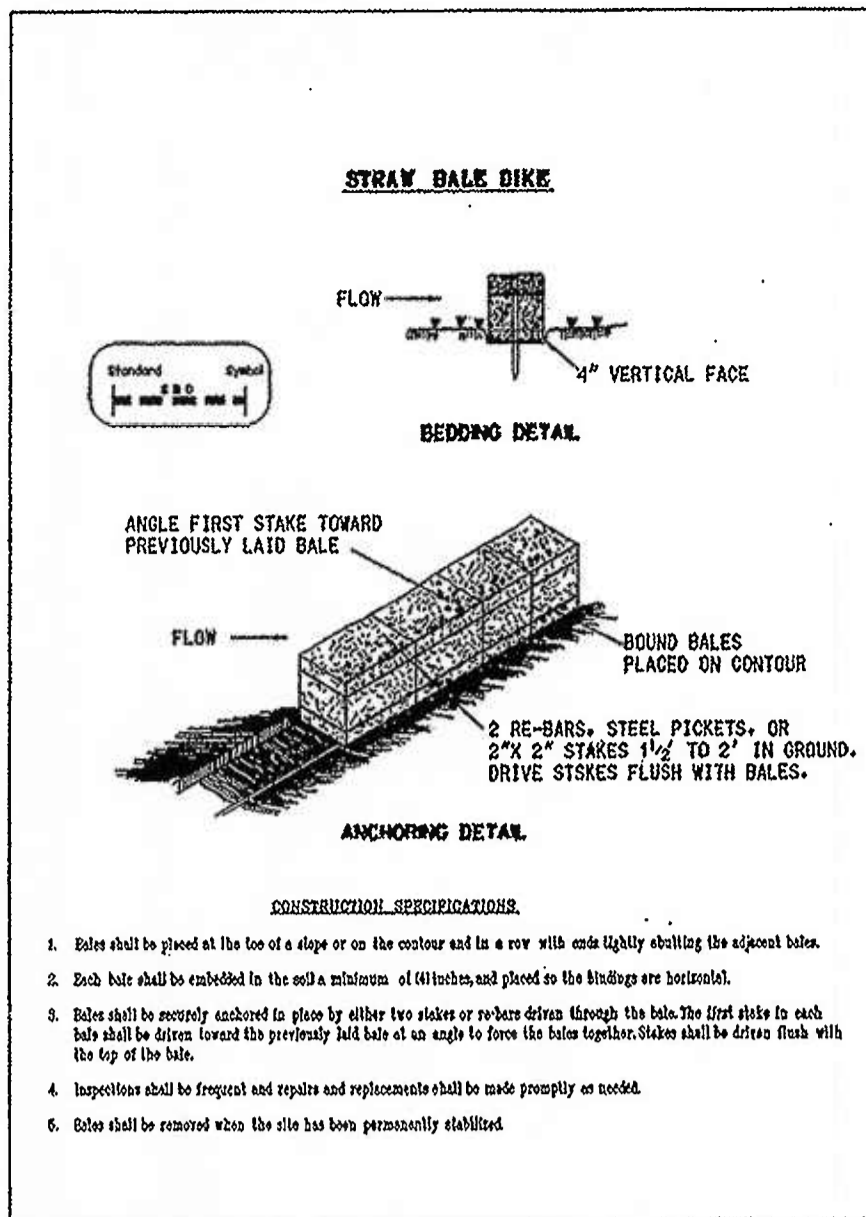
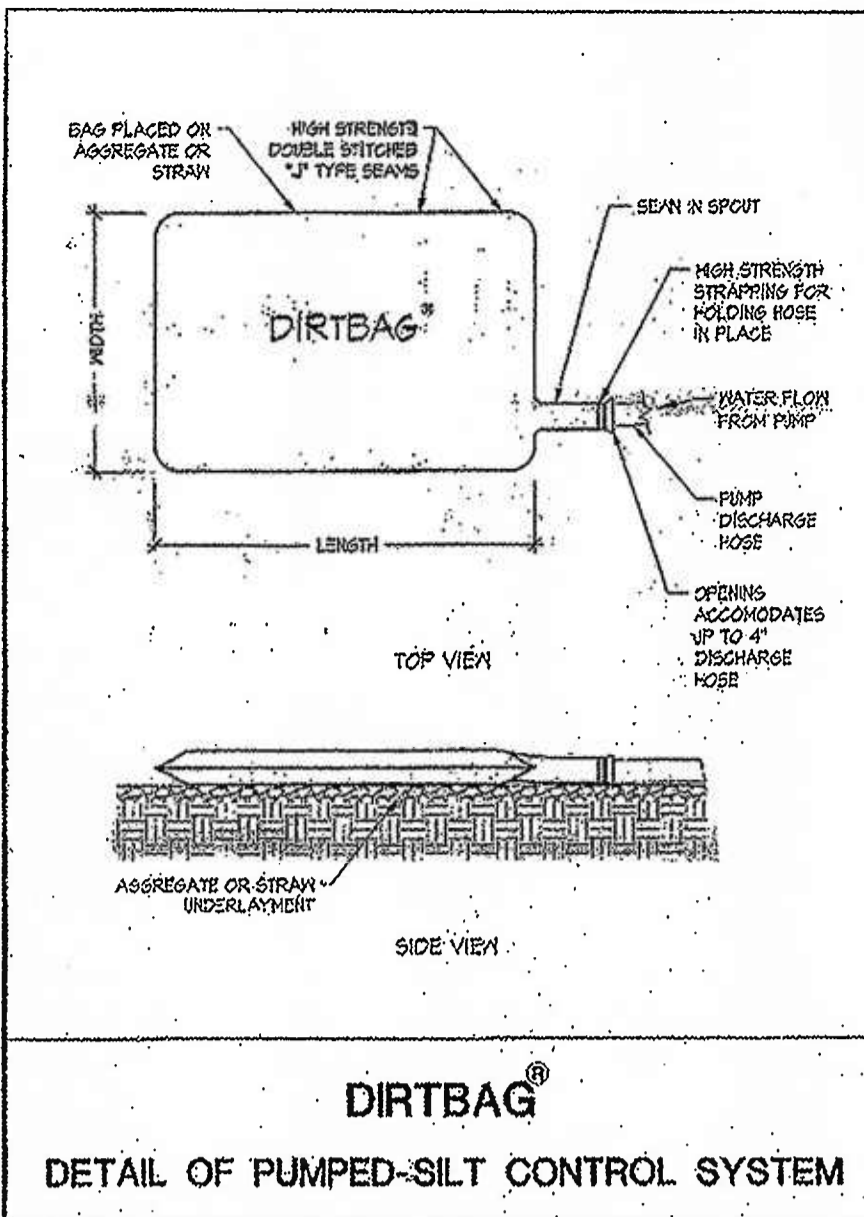
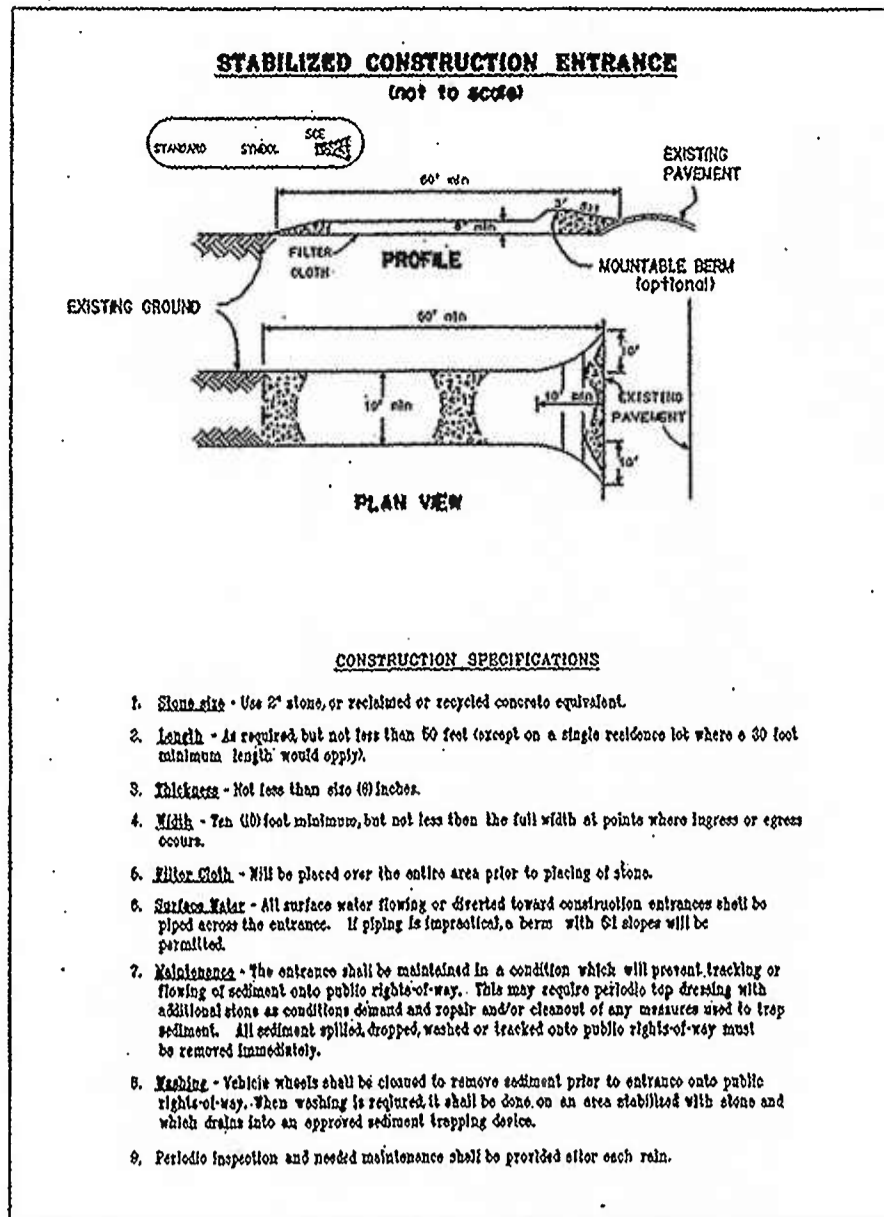
DETAILS

DESIGN	DP	SHEET NO.
DRAWN	JS	C3.0
CHECKED	DM	
JOB	2005.012	DRAWING 1 OF
DATE	SEPTEMBER 2005	

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SEDIMENT CONTROL NOTES

- ANY DEVIATION FROM THE "SEQUENCE OF OPERATIONS" INDICATED ON THIS DRAWING SHALL BE APPROVED BY THE SEDIMENT CONTROL REPRESENTATIVE.
- MINOR FIELD ADJUSTMENTS MAY BE MADE TO INSURE THE CONTROL OF SEDIMENT. UPON APPROVAL OF SEDIMENT CONTROL REPRESENTATIVE.
- PLACEMENT AND INSTALLATION OF SEDIMENT CONTROL DEVICES SHALL ALLOW FOR FULL PROTECTION OF TRENCH EXCAVATION, STOCKPILES, AND OTHER AREAS DISTURBED DURING CONSTRUCTION PROCEDURES.
- ALL SEDIMENT CONTROL DEVICES ONCE INSTALLED SHALL BE APPROVED BY SEDIMENT CONTROL REPRESENTATIVES BEFORE PROCEEDING WITH ACTUAL CONSTRUCTION.
- AT THE END OF EACH WORKING DAY ALL SEDIMENT CONTROL DEVICES SHALL BE INSPECTED AND LEFT IN FUNCTIONAL CONDITION.
- THE STOCKPILING OF EXCAVATED MATERIAL SHALL BE ACCOMPLISHED IN TWO SEPARATE STOCKPILES. ONE STOCKPILE SHALL CONSIST OF THE FIRST 6 FEET OF EXCAVATION AND SHALL BE REUSED FOR BACKFILLING THE TOP LAYERS OF THE TRENCH AND FOR FINE GRADING. THE REMAINING EXCAVATED MATERIAL SHALL BE STOCKPILED AND USED FOR BACKFILLING THE DEEPER PORTIONS OF THE TRENCH. APPROVED SEDIMENT CONTROL PROCEDURES SHALL BE USED TO PROTECT THE STOCKPILES. THE METHOD PROPOSED SHALL BE REVIEWED WITH THE CITY OF CRISFIELD REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.
- SEDIMENT CONTROL DEVICES CONSTRUCTED WITHIN DITCH AREA SHALL BE REMOVED ONLY WHEN REMOVING ADJACENT STRUCTURES. PERFORMING TRENCH EXCAVATION OR BACKFILL, OR GRADING OF THE DITCH, THESE SEDIMENT CONTROL DEVICES SHALL BE RE-INSTALLED OR REPLACED IMMEDIATELY FOLLOWING THE REMOVAL OR CONSTRUCTION PROCEDURE. SEDIMENT CONTROL DEVICES THAT ARE RE-INSTALLED OR REPLACED SHALL BE APPROVED BY SEDIMENT CONTROL REPRESENTATIVE.
- PORTABLE SEDIMENT TRAP SHALL BE USED TO REMOVE SEDIMENT FROM WASTEWATER RESULTING FROM Dewatering OPERATIONS. ALL SEDIMENT SHALL BE DISPOSED OF AS INDICATED ON THE DETAIL OF THIS DRAWING. ALL WATER DISCHARGED FROM SEDIMENT TRAP SHALL BE DISCHARGED ONTO AN APPROVED ENERGY DISSIPATING DIRECT DISCHARGE INTO TIDAL WATERS OR WETLANDS IS STRICTLY PROHIBITED.
- IN LIEU OF SILT FENCES, THE CONTRACTOR MAY COMPLETELY COVER ALL EXCAVATED MATERIAL WITH POLYETHYLENE SHEETS AND SECURELY ANCHOR SAID SHEETS TO PREVENT BLOWING OF SHEETS AND TO PROTECT EXCAVATED MATERIAL FROM ANY PRECIPITATION. POLYETHYLENE SHEETS MUST BE PLACED OVER EXCAVATED MATERIALS AT THE END OF EACH DAY AND DURING ANY PRECIPITATION.
- NO SPOILS, STOCKPILED OR EXCAVATED MATERIAL MAY BE DISCHARGED INTO WETLANDS REGULATED BY THE STATE OF DELAWARE OR THE U.S. ARMY CORP. OF ENGINEERS.
- STREAMS, CHANNELS, OR WATERWAYS - NO SPOIL SHALL BE WASTED IN THE WATERWAY OR ADJACENT BANK AREAS. MEASURES SUCH AS SILT FENCE AND/OR BUFFER STRIPS SHALL BE USED TO PROTECT STREAMS, CHANNELS, PONDS OR WATERWAYS. LOCATION AND REQUESTS FOR SILT FENCE INSTALLATION WILL BE MADE BY THE DISTRICT INSPECTOR.
- MATERIAL REMOVED FROM SURFACE TREATED, GRAVEL, OR SANDROADS AND STOCKPILED FOR RE-USE SHALL BE PROTECTED WITH APPROVED SEDIMENT CONTROL PROCEDURES. THE METHOD PROPOSED SHALL BE REVIEW WITH REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.
- CONTACT CITY OF CRISFIELD PRIOR TO COMMENCEMENT OF ANY WELL POINT OPERATIONS.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CURRENT EDITION OF THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK 1989.
- IF THE APPROVED PLAN NEEDS TO BE MODIFIED, ADDITIONAL SEDIMENT AND STORMWATER CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY THE SUSSEX CONSERVATION DISTRICT.
- FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS, TOPSOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- EROSION CONTROL MATTING IS REQUIRED IN OPEN CHANNELS AND ON SLOPES OF 3:1 OR GREATER.
- LOCATE STOCKPILES ON AREAS WITH LITTLE OR NO SLOPE. STOCKPILES MUST BE SURROUNDED WITH SILT FENCE OR A STABILIZED EARTHEN BERM.
- STOCKPILING OF EXCAVATED MATERIAL OUTSIDE OF THE CONTRACT AREA SHALL REQUIRE AN ADDITIONAL EROSION AND SEDIMENT CONTROL PLAN FOR THAT LOCATION. PLAN MUST BE SUBMITTED AND APPROVED BY THE SUSSEX CONSERVATION DISTRICT.
- CONTRACTOR SHALL MAINTAIN AND REPAIR ALL EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT PRACTICES DAMAGED DURING UTILITY INSTALLATION.
- REVIEW AND OR APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE SEDIMENT AND STORMWATER REGULATIONS. NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.



PERMANENT SEEDING NOTES

SEEDBED PREPARATION:
LOOSEN UPPER 4 INCHES OF SOIL BY DISCING, RAKING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS:
APPLY 1-2 TONS PER ACRE (46-92 LBS/1000 SQ. FT.) OF DOLOMITIC LIMESTONE AND 600 LBS PER ACRE (14 LBS/1000 SQ. FT.) OF 10-10-10 FERTILIZER.

SEEDING:
FOR PERIODS OF SEPTEMBER 1 THROUGH NOVEMBER 15 AND MARCH 1 THROUGH MAY, SEED WITH 210-230 LBS PER ACRE (5 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR PERIODS OF NOVEMBER 15 THROUGH FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING.

MULCHING:
APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LB/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATIONS USING A SYNTHETIC BINDER SUCH AS ACRYLIC DLR (AGR1-TAC) DCA-70, PETROSET OR TERRA TACK AT RATES RECOMMENDED BY THE MANUFACTURER.

MAINTENANCE:
INSPECT ALL SEEDBED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS, AND RESEEDINGS.

SEQUENCE OF OPERATIONS

- MUST BE NOTIFIED IN WRITING FIVE (5) DAYS PRIOR TO COMMENCING WITH CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE AT UNPAVED ENTRANCES TO STAGING AREAS.
- INSTALL SILT FENCE AND STRAW BALES PRIOR TO TRENCH EXCAVATION IN AREAS ADJACENT TO WATERBODIES, WETLANDS, DRAINAGE DITCHES, SWALES, AND INLETS.
- INSTALL DITCH PROTECTION MEASURES PRIOR TO TRENCH EXCAVATION AT DITCH CROSSINGS.
- RESTORE ALL DISTURBED AREAS TO THEIR ORIGINAL GRADES AND VEGETATE AS REQUIRED.
- REMOVE SEDIMENT CONTROL MEASURES AND STABILIZE AREA AFTER OBTAINING PERMISSION FROM SEDIMENT CONTROL INSPECTOR.

START CONSTRUCTION: SEPTEMBER 1, 2005
END CONSTRUCTION: OCTOBER 1, 2005

OWNER: ADC BULIDERS

CONTACT: DAVE WANGEL

ENGINEER: GEORGE J. MILES & BUHR, LLP

CONTACT: DOUG MARTIN (410) 742-3115

OWNER'S CERTIFICATE

I, THE UNDERSIGNED, CERTIFY THAT ALL LAND CLEARING, CONSTRUCTION AND DEVELOPMENT SHALL BE DONE PURSUANT TO THE APPROVED PLAN.

George J. Miles & Buhr, LLP (OWNER) 10-20-05 (DATE)

Reviewed for Somerset Soil Conservation District and meets Technical Requirements

George J. Miles & Buhr, LLP Signature Date 10/14/05

USDA-Natural Resource Conservation Service

The Somerset Soil Conservation District does not relieve the Applicant of the continuing responsibility to effectively abate sediment pollution and comply with all other applicable local and state laws.

The Somerset Soil Conservation District has determined that tidal and or non-tidal wetlands may exist on this property. It is the responsibility of the applicant to comply with all applicable federal, state and local laws and permits.

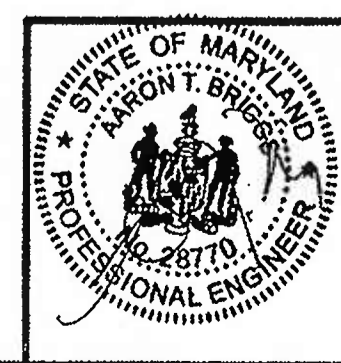
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SEDIMENT & EROSION CONTROL DETAILS

DESIGN	DP	SHEET NO.
DRAWN	JS	C3.1
CHECKED	DM	
JOB	2005.012	
DATE	SEPTEMBER 2005	DRAWING 1 OF



NO.	DATE	REVISIONS
1	10/7/05	PER DBF REVIEW LETTER 9/26/05

PROPOSED 10" WATER LINE
SOMERSET COUNTY
CRISFIELD, MARYLAND