JOINT PERMIT APPLICATION

PART II - APPENDICES

Please complete and submit the appendix questions applicable to your project, and attach the required maps and drawings to your application. If an item does not apply to your project, please write "N/A" in the space provided.

Provide a vicinity map showing the exact location of the project site. A USGS topographic map, street map, county map, or property survey plat may be used for this purpose. If a survey plat of the project site is available, please provide a copy with your application, regardless of which format you use for the vicinity map.

Plan View and Cross-Sectional and/or End View drawings are required for each appendix used. One drawing of each view may be submitted as long as all the required information is included and is legible. Submitted drawings do not need to be prepared by a professional draftsman. However, if drawings are not to scale, all dimensions must be clearly marked on the drawings. A sample drawing is included behind each appendix sheet. Please note that the sample drawings are condensed to save space in the JPA, showing the plan view, cross-section, end view, and vicinity map on one page.

Below are the general informational requirements for all drawings. Each appendix may have additional, specific drawing requirements. These specific requirements are listed on each appendix sheet.

Per Code 28.2-1302, applications for projects requiring Local Wetlands Board authorization must include specific information, as outlined in the Additional Attachments section of the JPA Instructions. When Local Wetlands Board authorization is required, the required information may be incorporated into your Appendices drawings. Per Code 28.2-1302: *"…a map, drawn to an appropriate and uniform scale, showing the area of wetlands directly affected, the location of the proposed work thereon, the area of existing and proposed fill and excavation, the location, width, depth and length of any proposed channel and disposal area, and the location of all existing and proposed structures, sewage collection and treatment facilities, utility installations, roadways, and other related appurtenances of facilities, including those on the adjacent uplands…"*.

General Informational Requirements for ALL Drawings

The following items need to be included on **all** drawings submitted with your application:

- north arrow
- waterway name
- existing and proposed structures, labeled as such
- dimensions of proposed structure(s)
- mean low water and mean high water lines for tidal areas
- ordinary high water line for nontidal areas
- limits of vegetated wetlands, if applicable

- ebb/flow direction (tidal areas) or flow direction (nontidal areas), if applicable
- adjacent properties, labeled with owner's name (when stream involved with project, show properties on both sides of stream)
- measurements from structures to fixed points of reference, including adjacent property lines

Appendix Sheets

Appendix	Page	Title
A	3	Private Piers, Marginal Wharves, & Uncovered Boat Lifts
B	6	Boathouses, Gazebos, Covered Boat Lifts, & Other Roofed Structures
C	8	Marinas, Commercial & Community Piers
D	10	Free-Standing Mooring Piles, Osprey Nesting Poles, Mooring Buoys, & Dolphins
E	12	Boat Ramps
F	14	Bulkheads & Associated Backfill
G	16	Fill
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K	25	Groins & Jetties
L	27	Breakwaters
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APPENDIX A - PRIVATE PIERS, MARGINAL WHARVES, & UNCOVERED BOAT LIFTS

Questions:

1. Number of vessels to be moored at the pier/wharf: _____

2. Provide the type (i.e. sail, power, skiff, etc.), size, and registration number of vessel(s):
_____type _____length _____width _____draft registration # _____
_____type _____length _____width _____draft registration # _____
_____type _____length _____width _____draft registration # _____

Specific Information for Plan View Drawing:

- width of the waterway, measuring from mean high water to mean high water (tidal areas) or ordinary high water to ordinary high water (nontidal areas)
- location and distance from edge of existing channels (marked and/or unmarked)
- soundings taken at mean low water (tidal areas) or at full pool level (nontidal areas) at 10-foot intervals
- channelward encroachment (including mooring piles) relative to mean high and mean low water lines
- dimensions of all piers, L-head or T-head sections, platforms, or decks
- distance between the structure and mooring piles

Specific Information for Cross-Sectional Drawing:

- existing contours of the bottom (depths relative to MLW or OHW)
- minimum elevation (or distance) between pier decking and wetlands substrate, if applicable

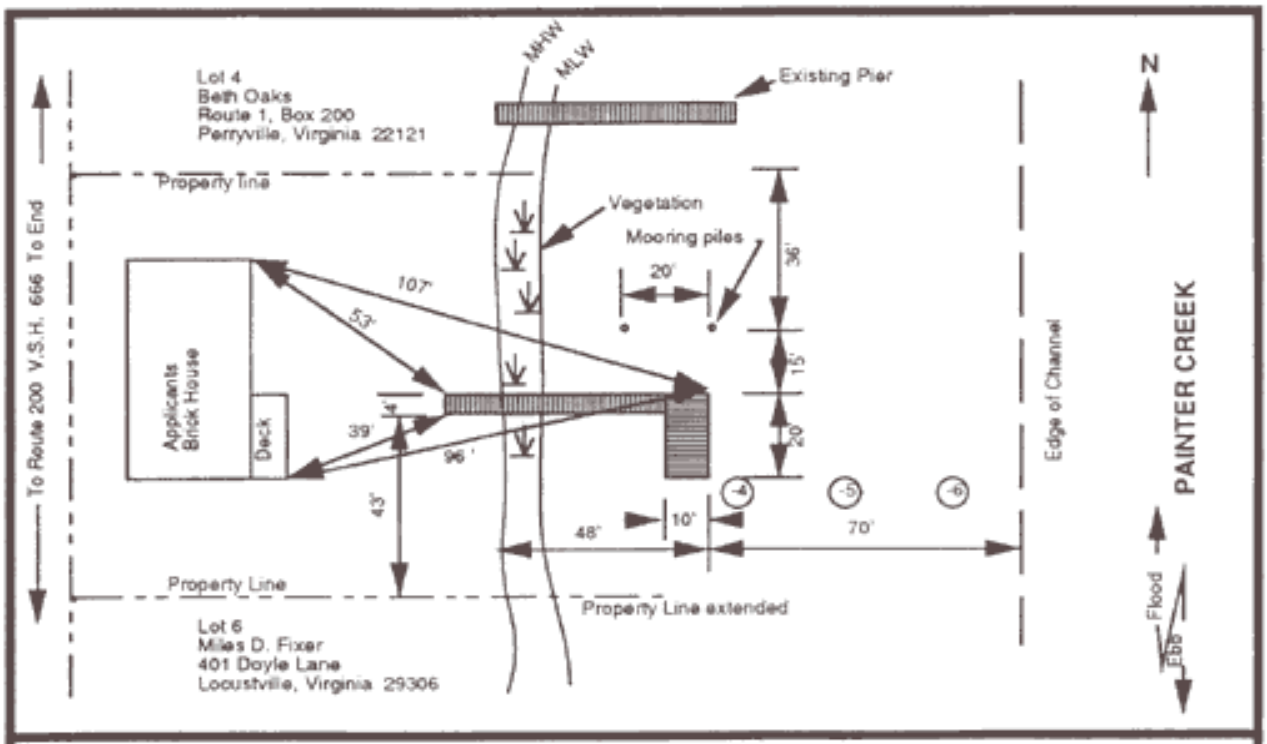
IF YOU PLAN TO CONSTRUCT A PRIVATE PIER, YOU *MAY* QUALIFY TO WORK IN A NON-REPORTING CAPACITY FOR THE NORFOLK DISTRICT CORPS OF ENGINEERS' REGIONAL PERMIT 17 (RP-17).

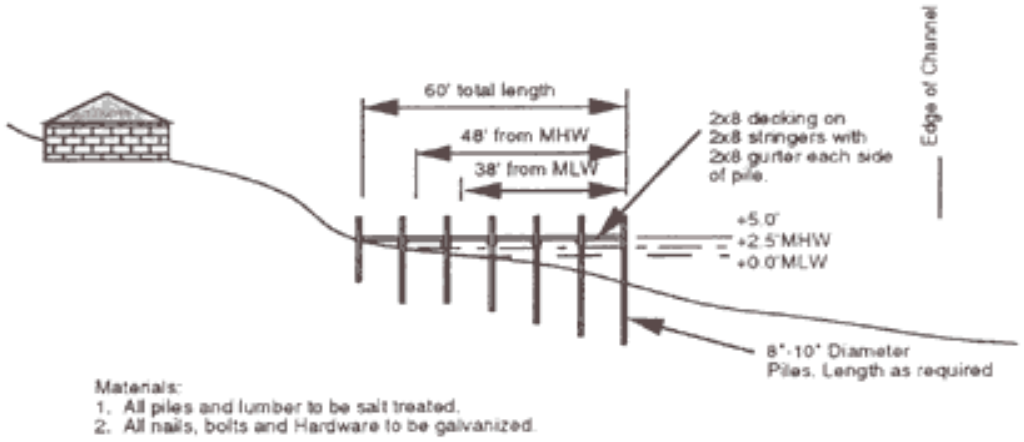
RP-17 can generally be used for private pier projects where the proposed pier does not extend more than ¼ the waterway width. In addition, the RP-17 has special conditions that must be met when piers extend over vegetated wetlands.

RP-17 may not always be used in a non-reporting capacity in areas where the Corps of Engineers has Real Estate easements and/or on waterways where federally-maintained channels are present. RP-17 may not be used in a non-reporting capacity in areas where there are known concentrations of federally-listed threatened or endangered species.

***DO NOT* SIGN THE FOLLOWING FORM UNTIL YOU HAVE READ AND COMPLETELY UNDERSTAND ALL OF THE TERMS AND CONDITIONS OF RP-17 (a copy of the permit may be found at http://www.nao.usace.army.mil/Regulatory/98-RP-17.pdf, or you may call (757) 441-7652 to have a copy of the permit mailed to you). FAILURE TO COMPLY WITH ALL OF THE CONDITIONS OF THE PERMIT MAY RESULT IN ENFORCEMENT ACTION BY THE CORPS, WHICH COULD POTENTIALLY INVOLVE CIVIL AND/OR CRIMINAL PENALTIES AND/OR REMOVAL OR MODIFICATION OF THE STRUCTURE.**

APPENDIX A, Private Piers & Marginal Wharves





Matenals:
1. All piles and lumber to be salt treated.
2. All nails, bolts and Hardware to be galvanized.

Adjacent Property Owners:	Plan & Cross Sectional View	Proposed private pier project
1. Beth Oaks	Evans Pier Project	in Painter Creek at Martin Bay
2. Miles D. Fixer	Scale 1" = 40'	County of West
		Applicant J. J. Evans
		Sheet 1 of 1 Date 1/29/92

Norfolk District
US Army
Corps of Engineers

CERTIFICATE OF COMPLIANCE WITH CORPS OF ENGINEERS, NORFOLK DISTRICT REGIONAL PERMIT RP-17 FOR PRIVATE PIERS

I, _____, hereby certify that I have read and understand all conditions of the effective Regional Permit RP-17, issued by the Army Corps of Engineers, Norfolk District, Norfolk, Virginia, regulating the construction, maintenance, and repair of **private, non-commercial piers & associated mooring piles** in certain navigable waters of the United States within the Commonwealth of Virginia.

The proposed (work) to be located at:

fully complies with all conditions set forth in RP-17.

I agree to make available a copy of this certification and any other documents required by RP-17 to any regulatory representative authorized to visit the project site to ensure permit compliance. If I fail to provide the required documentation upon request, I understand that the representative will have the option of stopping work at the project site until it has been determined that I am in full compliance with all terms and conditions set forth in the regional permit.

_____
Signature of Property Owner or Agent

_____
Date

NOTE: DO NOT SIGN THIS FORM IF YOU ARE CONSTRUCTING A BULKHEAD, RIPRAP REVETMENT, OR PERFORMING ANY OTHER ACTIVITY NOT COVERED BY RP-17.
DO NOT SIGN THIS FORM IF YOU HAVE NOT READ THE TERMS AND CONDITIONS OF RP-17.
RP-17 IS NOT APPLICABLE FOR USE IN ALL WATERWAYS.
YOU MAY CONTACT THE CORPS AT (757) 441-7652 FOR A COPY OF THE PERMIT TO SEE IF YOUR PROJECT QUALIFIES FOR RP-17.

NAO FL 17 (Rev. Nov 02)

APPENDIX B - BOATHOUSES, GAZEBOS, COVERED BOAT LIFTS, & OTHER ROOFED STRUCTURES

Questions:

1. Provide the type (i.e. sail, power, skiff, etc.), size, and registration number of vessel(s) to be moored at the boathouse:

_____type _____length _____width _____draft registration # _____
_____type _____length _____width _____draft registration # _____
_____type _____length _____width _____draft registration # _____

2. Provide the type (i.e. sail, power, skiff, etc.), size, and registration number of vessel(s) to be moored at the pier:

_____type _____length _____width _____draft registration # _____
_____type _____length _____width _____draft registration # _____
_____type _____length _____width _____draft registration # _____

3. Will the sides of the structure be enclosed? __ Yes __ No

Specific Information for Plan View Drawing:

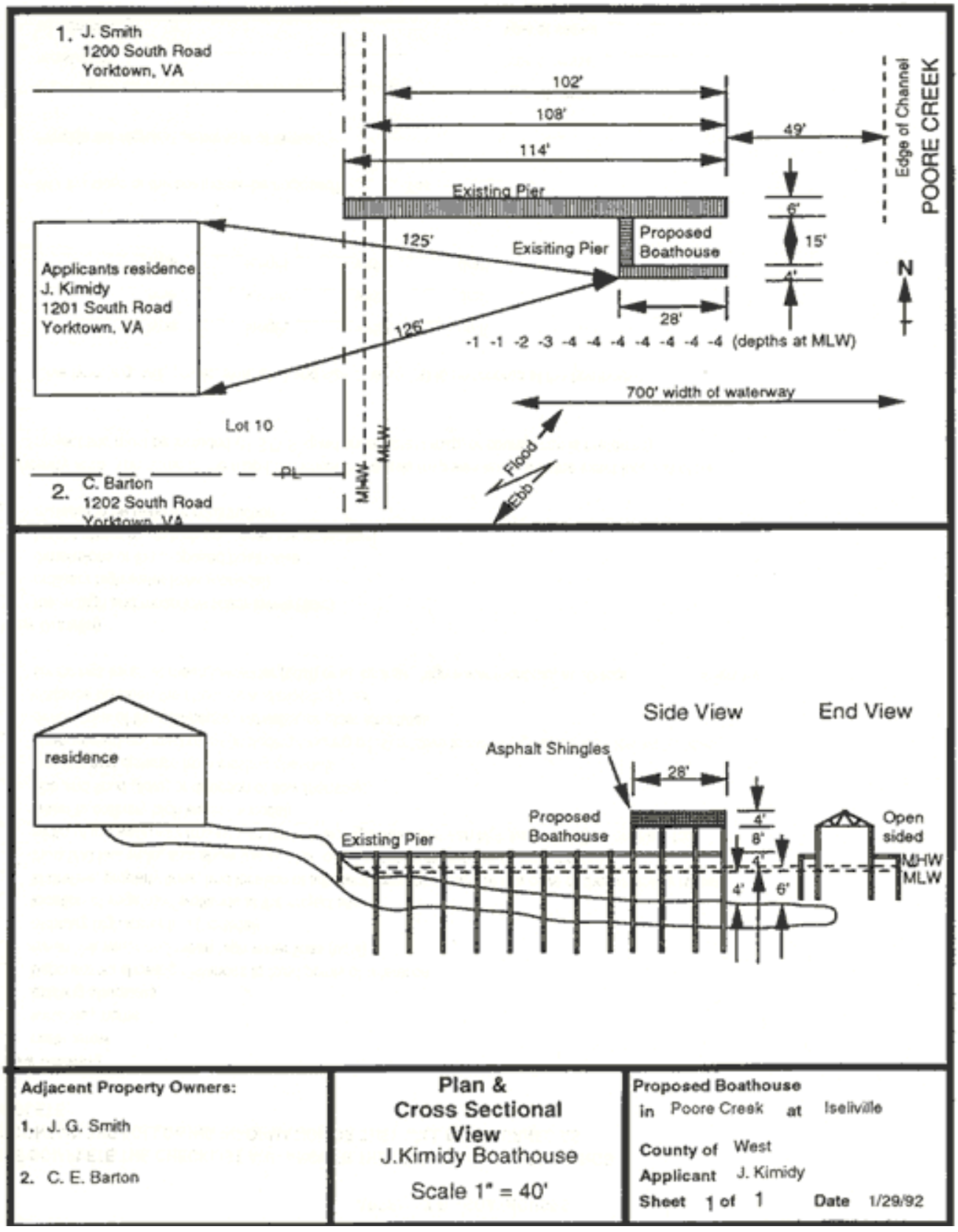
- limits of vegetated wetlands, if applicable
- width of the waterway, measuring from mean high water to mean high water (tidal areas) or ordinary high water to ordinary high water (nontidal areas)
- location and distance from existing channels (marked and/or unmarked)
- soundings taken at mean low water (tidal areas) or at full pool level (nontidal areas) at 10-foot intervals
- channelward encroachment (including mooring piles) relative to mean high and mean low water lines
- dimensions of structure roof, and catwalks if applicable
- distance between the structure and mooring piles

Specific Information for Cross-Sectional and End View Drawing:

- existing contours of the bottom (depths relative to MLW or OHW)
- height of structure over mean high and mean low water levels, and over wetlands if applicable
- material to be used for construction

Note: *Land disturbance or removal of vegetation associated with projects located in Chesapeake Bay Preservation Areas will require approval from local governments. Please contact your local government to determine local Chesapeake Bay Preservation Act requirements concurrent with this application.*

APPENDIX B, Boathouses



APPENDIX C - MARINAS, COMMERCIAL & COMMUNITY PIERS

Questions:

1. Have you obtained the State Health Department's approval for sanitary facilities?
__ Yes __ No (You are required to obtain this approval or a variance before a VMRC permit can be issued.)

2. Will petroleum products or other hazardous materials be stored or handled at the facility?
__ Yes __ No If your answer is yes, please attach your spill contingency plan.

3. Will the facility be equipped to off-load sewage from boats? __ Yes __ No

4. Indicate the number and type of slips:

	Wet Slips	Dry Storage
Existing		
Proposed Additional		

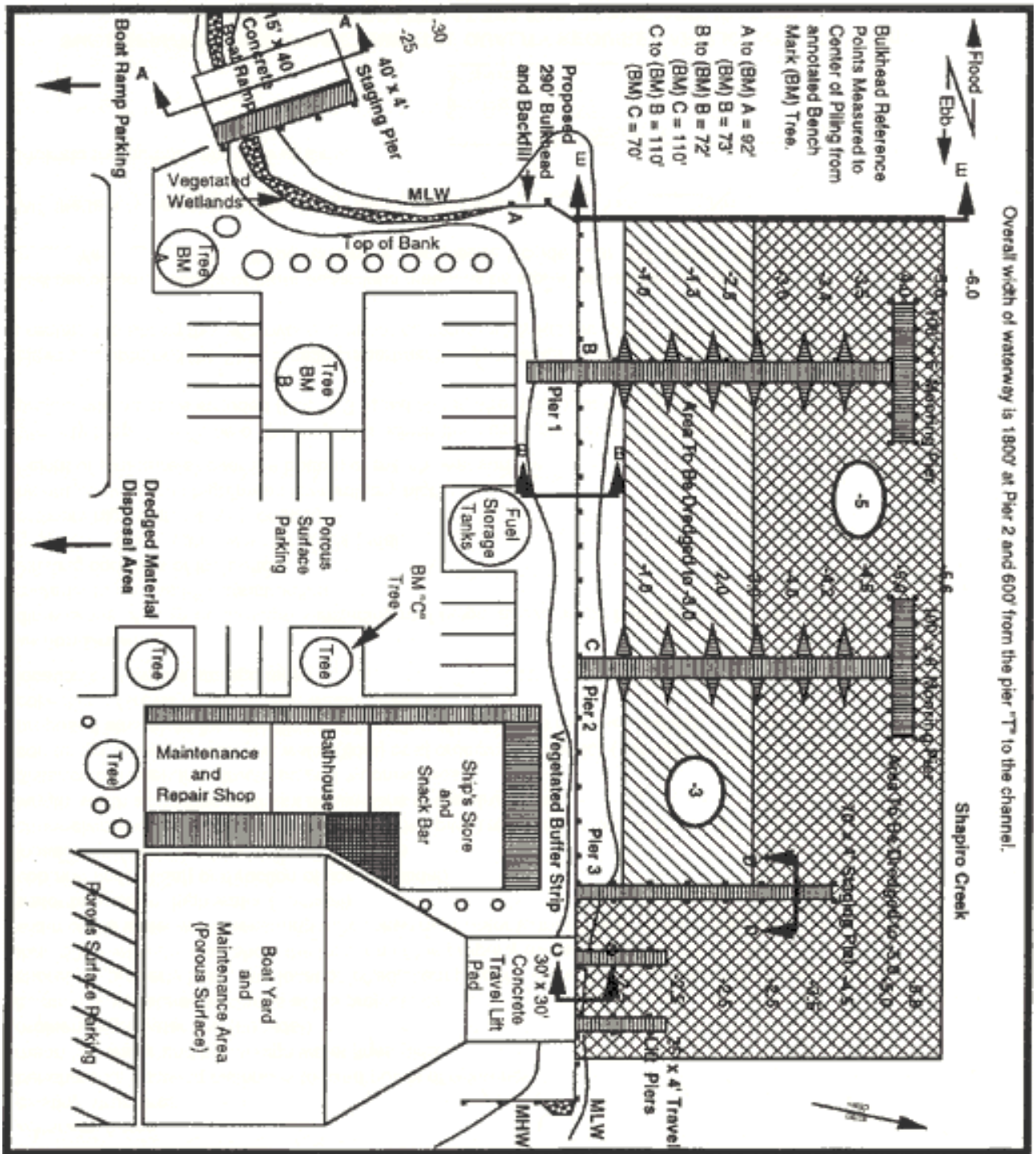
Specific Information for Plan View Drawing:

- limits of vegetated wetlands, if applicable
- width of the waterway, measuring from mean high water to mean high water (tidal areas) or ordinary high water to ordinary high water (nontidal areas)
- location and distance from existing channels (marked and/or unmarked)
- soundings taken at mean low water (tidal areas) or at full pool level (nontidal areas) at 10-foot intervals
- channelward encroachment (including mooring piles) relative to mean high and mean low water lines
- distance between structure(s) and mooring piles
- proposed structures for collection and handling of hazardous material (include settling tanks for collection of travel lift washdown water, paint chips, etc.)
- size and location of gasoline storage tanks

Specific Information for Cross-Sectional and End View Drawing:

- existing contours of the bottom (depths relative to MLW or OHW)
- height of roof over mean high and mean low water levels, and over wetlands if applicable
- material to be used for construction

Note: *Land disturbance or removal of vegetation associated with projects located in Chesapeake Bay Preservation Areas will require approval from local governments. Please contact your local government to determine local Chesapeake Bay Preservation Act requirements concurrent with this application.*



Adjacent Property Owners:

1. J. G. Smith
2. C. E. Barton

Plan View

Shapiro Creek Marina

Scale 1" = 40'

Proposed Marina & Support Facilities

in Shapiro Creek at Jones Point

County of West

Applicant Mark J. Harrell

Sheet 1 of 4 Date 3-12-93

APPENDIX D - FREE STANDING MOORING PILES, OSPREY NESTING POLES, MOORING BUOYS, & DOLPHINS (not associated with piers)

Questions:

1. Give the number of vessels to be moored: _____

2. Give type (i.e. sail, power, skiff, etc.) and size of vessel(s) to be moored:

_____type _____length _____width _____draft _____ registration #
_____type _____length _____width _____draft _____ registration #

3. Name(s) and complete mailing address(es) of the owner(s) of the vessel(s) if other than applicant:

4. Do you plan to reach the mooring from your own upland property? __ Yes __ No
If "No", explain the proposed means of access:

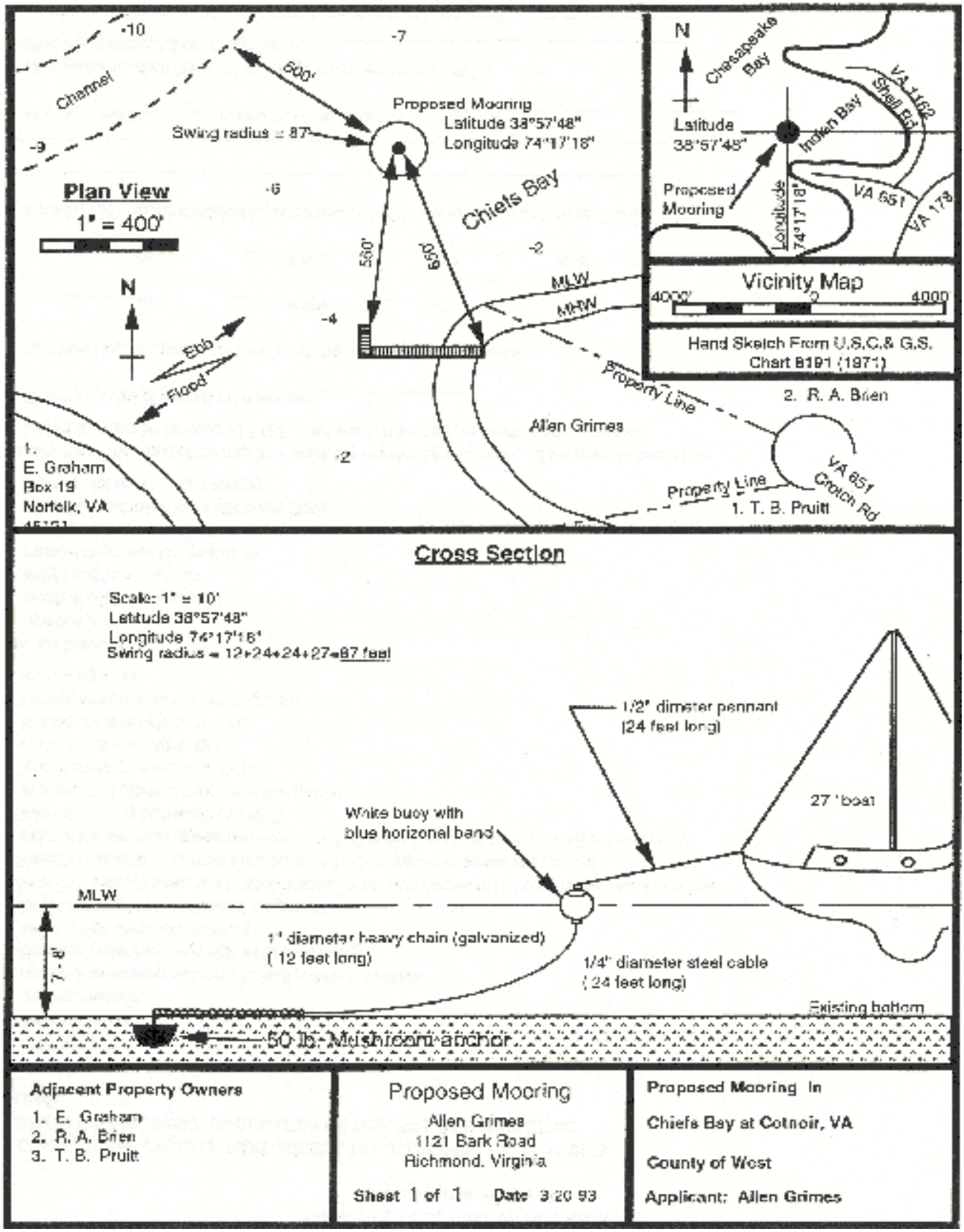
Specific Information for Plan View Drawing:

- limits of vegetated wetlands, if applicable
- width of the waterway, measuring from mean high water to mean high water (tidal areas) or ordinary high water to ordinary high water (nontidal areas)
- location and distance from existing channels (marked and/or unmarked)
- soundings taken at mean low water (tidal areas) or at full pool level (nontidal areas) at 10-foot intervals
- type of mooring (buoy, pile, dolphin)
- anchoring device and weight
- total swing radius
- latitude and longitude of structure in degrees, minutes, and seconds

Specific Information for Cross-Sectional Drawing:

- existing contours of the bottom (depths relative to MLW or OHW)
- type of mooring
- length of chain and line used
- weight and type of anchor, if applicable
- material to be used for construction

APPENDIX D. Dolphins or Moorings



Adjacent Property Owners	Proposed Mooring	Proposed Mooring In
1. E. Graham 2. R. A. Brien 3. T. B. Pruitt	Allen Grimes 1121 Bark Road Richmond, Virginia Sheet 1 of 1 Date 3 20 93	Chiefs Bay at Cotnoir, VA County of West Applicant: Allen Grimes

APPENDIX E - BOAT RAMPS

Questions:

1. Will any excavation be required to construct the boat ramp? __ Yes __ No
If yes, explain how and where you plan on disposing of the excavated material:

2. What type of design and materials will be used (e.g. open pile design with salt treated lumber or concrete slab on gravel bedding, etc.)?

3. Please give the location of and driving distance to the nearest public boat ramp:

4. Will any dredging other structures be installed concurrent with the boat ramp installation (i.e. tending pier, groin, etc.)? __ Yes __ No If "Yes", please include the appropriate appendices.

5. Will any portion of the project be placed on wetlands? __ Yes __ No. If your answer is yes, complete the table below:

	Tidal (sq. ft.)	Nontidal (sq. ft.)
Vegetated		*
Nonvegetated		*
Subaqueous land		*

*** If nontidal wetland impacts will occur, please complete Part IV or V of the JPA.**

Specific Information for Plan View Drawing:

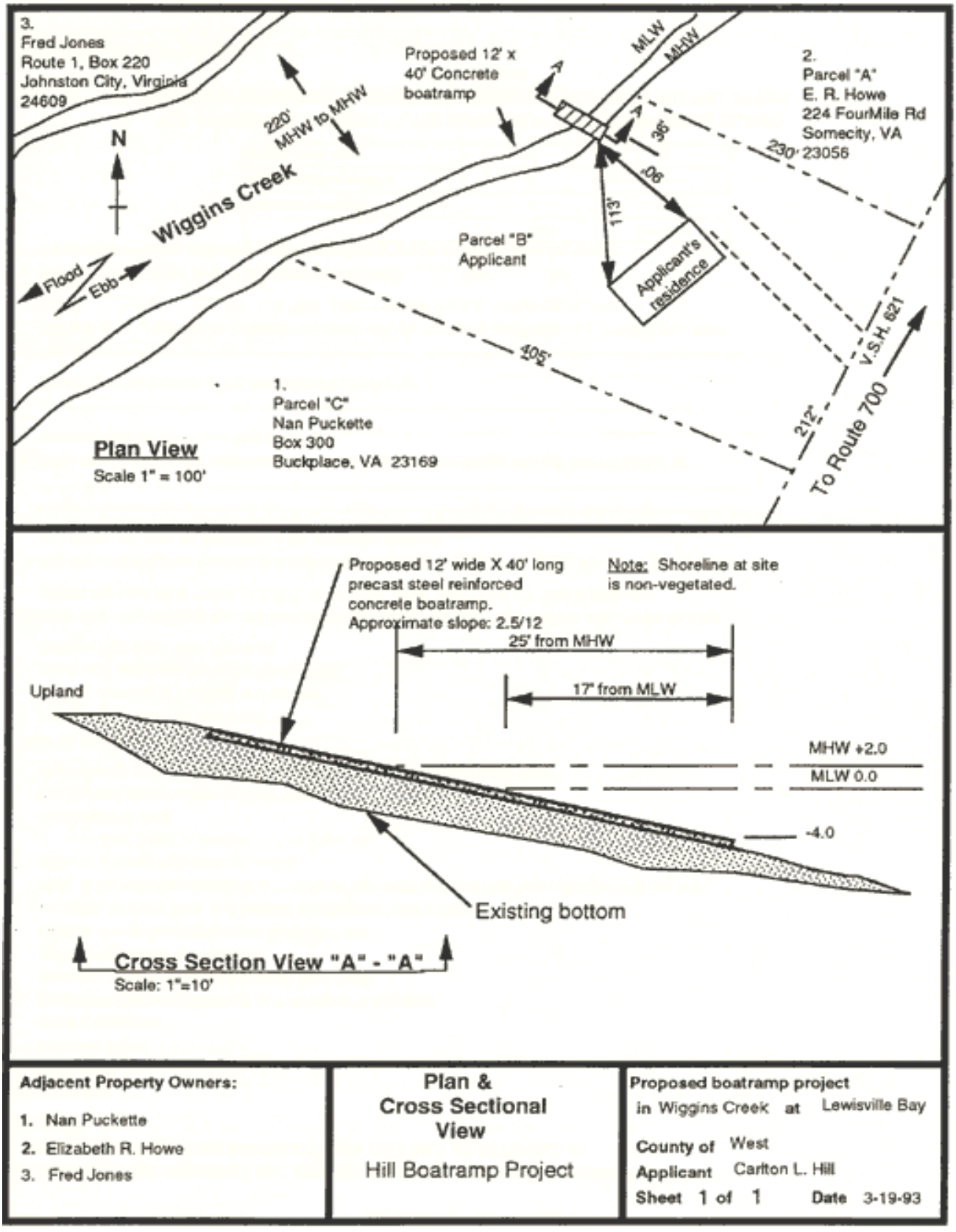
- width of the waterway, measuring from mean high water to mean high water (tidal areas) or ordinary high water to ordinary high water (nontidal areas)
- location and distance from existing channels (marked and/or unmarked)
- soundings taken at mean low water (tidal areas) or at full pool level (nontidal areas) at 10-foot intervals
- channelward encroachment (including mooring piles) relative to mean high and mean low water lines

Specific Information for Cross-Sectional Drawing:

- existing contours of the bottom (depths relative to MLW or OHW), and of bank
- water depth below MLW at channelward end of ramp
- material to be used for construction

Note: *Land disturbance or removal of vegetation associated with projects located in Chesapeake Bay Preservation Areas will require approval from local governments. Please contact your local government to determine local Chesapeake Bay Preservation Act requirements concurrent with this application.*

APPENDIX E, Boat Ramps



APPENDIX F - BULKHEADS & ASSOCIATED BACKFILL

Questions:

1. Is any portion of the project maintenance or replacement of an existing and currently serviceable bulkhead and/or backfill? __ Yes __ No Existing linear feet:_____

If yes, is it possible to construct the new bulkhead no greater than 2 feet channelward of the existing bulkhead?

__ Yes __ No If your answer is "No", explain:

2. What is the total length of the proposed bulkhead, including returns?

3. Bulkhead will extend an average of _____ feet channelward from MLW and _____ feet channelward from MHW. The maximum channelward encroachment from MLW is _____feet, and _____ feet from MHW.

4. Describe type of construction and materials to be used, including source of backfill material and its composition (i.e. 80% sand, 15% clay and 5% silt), and all fittings for the bulkhead:

5. Will any portion of the project be placed on wetlands or subaqueous land? __ Yes __ No
If your answer is yes, complete the table below:

	Tidal (sq. ft.)	Nontidal (sq. ft.)
Vegetated		*
Nonvegetated		*
Subaqueous land		*

*** If nontidal wetland impacts will occur, please complete Part IV or V of the JPA.**

Specific Information for Plan View Drawing:

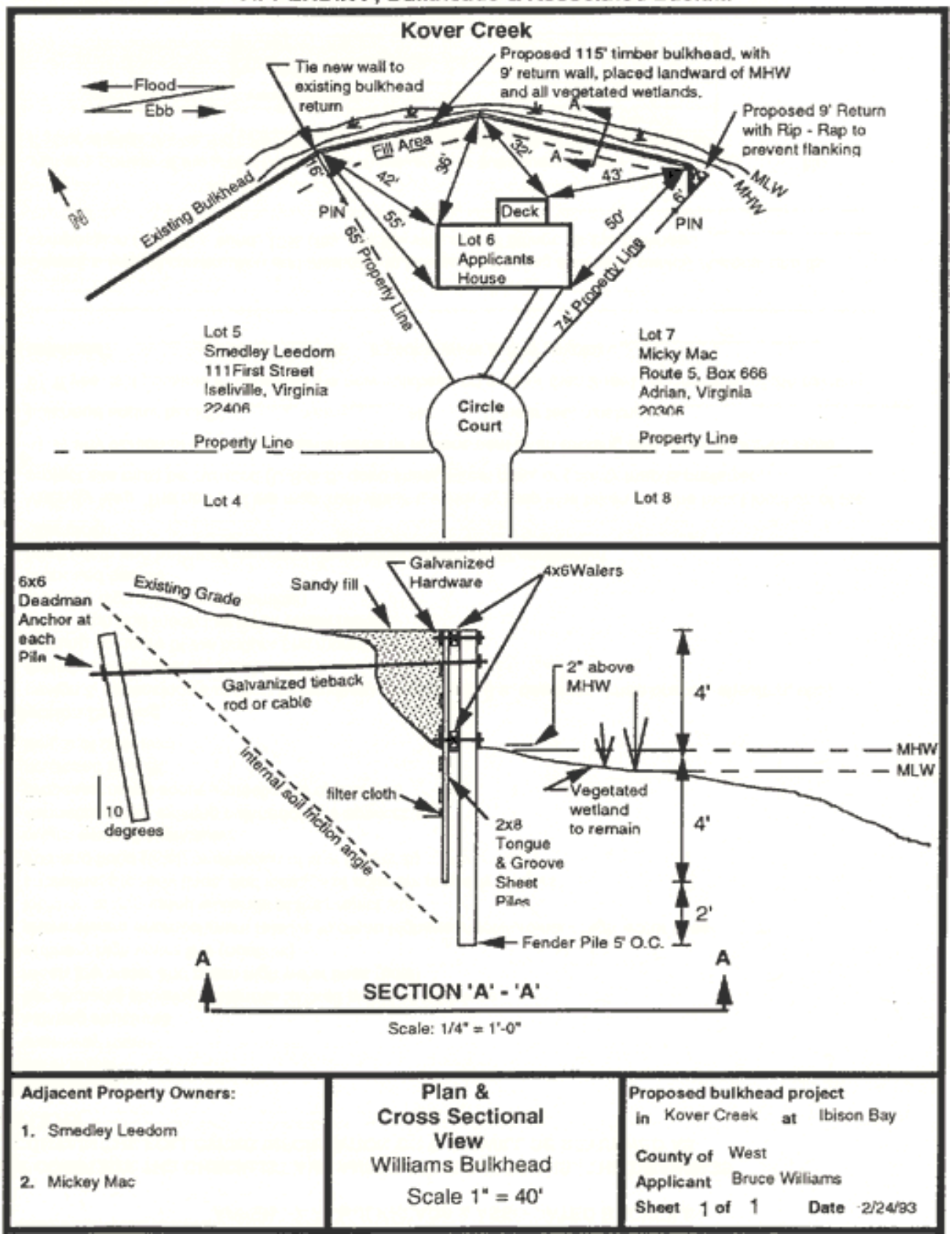
- channelward encroachment relative to mean high/mean low/ordinary high water lines
- return walls, if applicable
- connection with existing bulkhead(s), if applicable
- proposed riprap scour protection, if applicable
- proposed backfill
- length of bulkhead, including return walls
- two measurements from fixed points of reference to each end and turning point along structure(s)
- labeled fixed, end, and turning points

Specific Information for Cross-Sectional Drawing:

- existing contours of the bottom (depths relative to MLW or OHW)
- design & dimensions of structural components (i.e. deadmen, knee braces, sheeting, etc.)
- material to be used for construction, including CCA treatment, if applicable
- proposed backfill
- base width and height of proposed riprap scour protection, if applicable
- filter cloth, weep holes
- depth of penetration of piles/sheeting below substrate

Note: *Land disturbance or removal of vegetation associated with projects located in Chesapeake Bay Preservation Areas will require approval from local governments. Please contact your local government to determine local Chesapeake Bay Preservation Act requirements concurrent with this application.*

APPENDIX F, Bulkheads & Associated Backfill



Adjacent Property Owners:

1. Smedley Leedom
2. Mickey Mac

Plan & Cross Sectional View
Williams Bulkhead
Scale 1" = 40'

Proposed bulkhead project
in Kover Creek at Ibison Bay
County of West
Applicant Bruce Williams
Sheet 1 of 1 Date 2/24/93

APPENDIX G - FILL
(not associated with backfilled shoreline structures)

Questions:

1. What is the source (i.e. quarry, borrow pit, etc.) and quantity of the fill material, and area of the fill site? Source: _____ Amount: _____ (cubic yards) Area: _____ (sq feet)

2. State the type and composition percentage of the fill material (e.g. 80% sand, 15% clay, 5% silt):_____

3. Explain the purpose of the filling activity & the type of structure to be built on the filled area, if any:

4. Will any of the fill be placed on wetlands or subaqueous land? __ Yes __ No. If your answer is yes, complete table below:

	Tidal (sq. ft.)	Nontidal (sq. ft.)
Vegetated		*
Nonvegetated		*
Subaqueous land		*

*** If nontidal wetland impacts will occur, please complete Part IV or V of the JPA.**

5. If filling activity is proposed in wetlands, name the nearest waterbody and give the distance from the activity:_____

6. What is the approximate drainage area and average stream flow? DA: _____ square miles Flow: _____ cubic feet per second

Specific Information for Plan View Drawing:

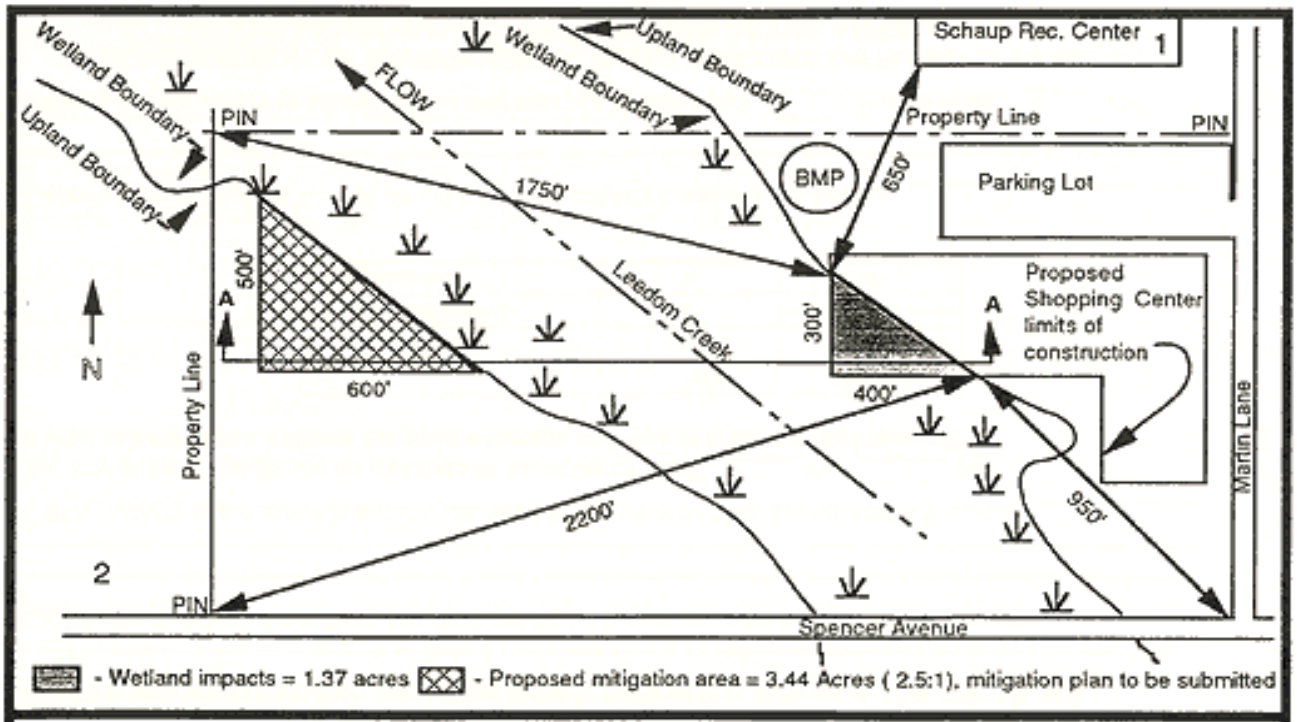
- width of the waterway, measuring from mean high water to mean high water (tidal areas) or ordinary high water to ordinary high water (nontidal areas)
- channelward encroachment relative to mean high/mean low water lines (tidal) or ordinary high water line (nontidal)
- fill area (labeled)

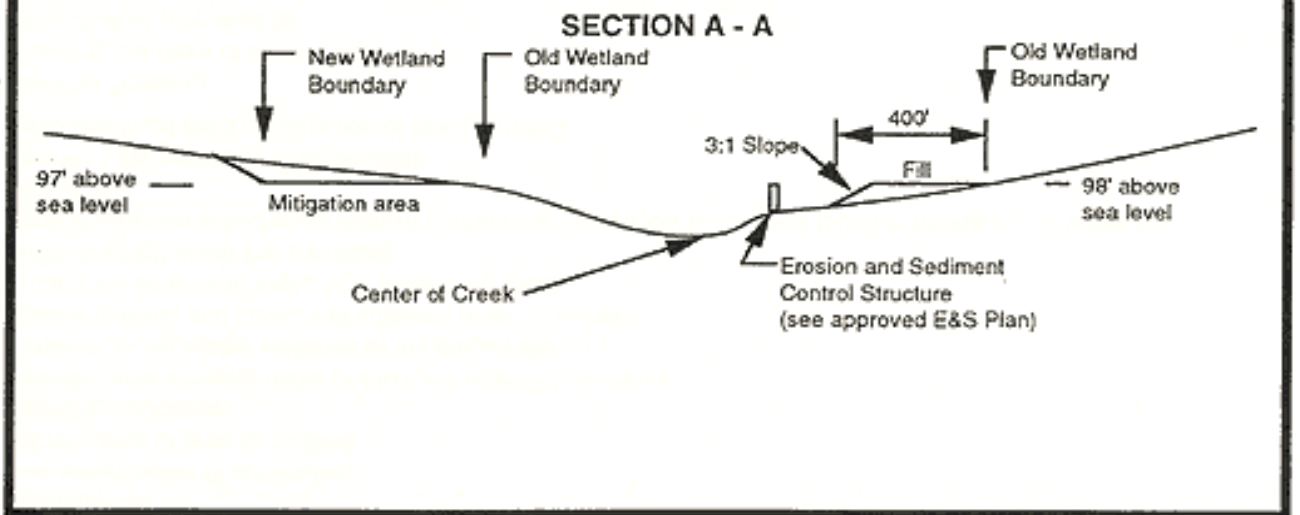
Specific Information for Cross-Sectional Drawing:

- existing contours of the bottom (depths relative to MLW or OHW)
- elevation of proposed fill
- structure or method used to contain fill

Note: *Land disturbance or removal of vegetation associated with projects located in Chesapeake Bay Preservation Areas will require approval from local governments. Please contact your local government to determine local Chesapeake Bay Preservation Act requirements concurrent with this application.*

APPENDIX G, Filling Waters / Wetlands





Adjacent Property Owners:

1. M. Schaup
2. C. Jones

Plan &
Cross Sectional
View
Knepper Filling Project
Scale 1" = 500'

Proposed dredging project
in Leedom Creek at Perkins Bay

County of Woodward
Applicant D.A. Knepper
Sheet 1 of 1 Date 1/29/92

APPENDIX H - RIPRAP REVETMENT & ASSOCIATED BACKFILL

Questions:

1. What will be the average amount of material per linear foot of shoreline that is placed below the plane of mean high water or ordinary high water? _____cubic yards per foot

2. What is the total length of the revetment, including returns? _____

3. The riprap toe will extend an average of _____ feet channelward from MLW and _____ feet channelward from MHW. The maximum channelward encroachment from MLW is _____feet, and _____ feet from MHW.

4. What type of material will be used for construction of the riprap revetment (e.g. quarry stone, broken concrete, etc.)? _____

5. What will be the average weight of the:
Core material (bottom layers) _____ pounds per stone Class _____
Armor material (top layer) _____ pounds per stone Class _____

6. If the revetment will be backfilled, give the source and composition (e.g. 80% sand, 15% clay and 5% silt) of the material to be used. Source: _____
Composition: _____

7. Will any portion of the project be placed on wetlands or subaqueous land? ___ Yes __ No.
If your answer is yes, complete the table below:

	Tidal (sq. ft.)	Nontidal (sq. ft.)
Vegetated		*
Nonvegetated		*
Subaqueous land		*

*** If nontidal wetland impacts will occur, please complete Part IV or V of the JPA.**

Specific Information for Plan View Drawing:

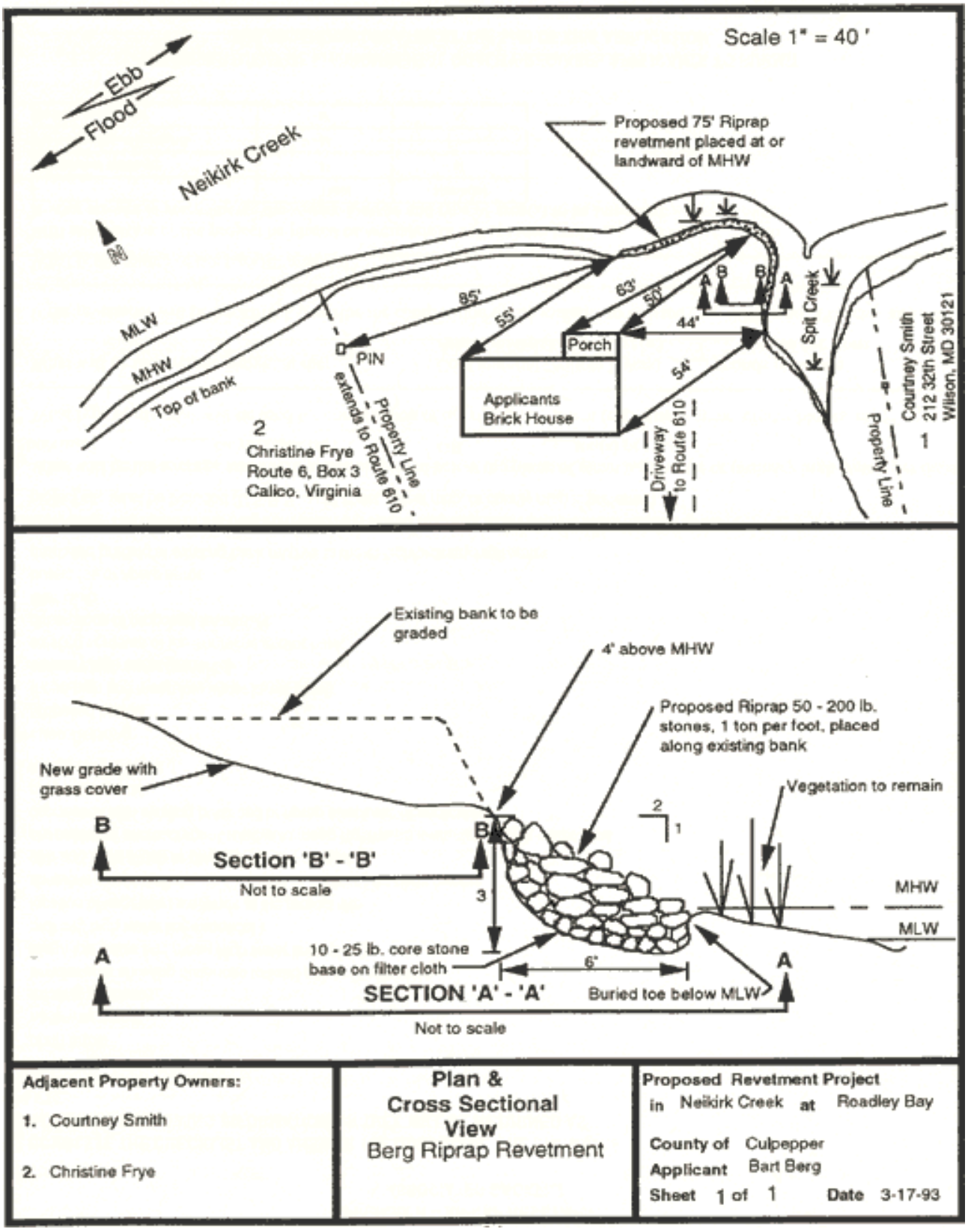
- channelward encroachment relative to mean high/mean low lines (tidal) and OHW line (nontidal)
- connection with existing bulkhead or riprap structures, if applicable
- proposed backfill

Specific Information for Cross-Sectional Drawing:

- existing contours of the bottom (depths relative to MLW or OHW)
- proposed backfill
- length, height, and base width of revetment, including returns
- filter cloth
- depth of penetration of piles/sheeting below substrate
- buried toe or riprap apron and depth below MLW/OHW
- proposed grading and slope of existing bank relative to mean high water or ordinary high water line

Note: *Land disturbance or removal of vegetation associated with projects located in Chesapeake Bay Preservation Areas will require approval from local governments. Please contact your local government to determine local Chesapeake Bay Preservation Act requirements concurrent with this application.*

APPENDIX H, Riprap Revetment & Associated Backfill



APPENDIX I - MARSH TOE STABILIZATION

Questions:

1. What type of material will be used (i.e. quarry stone, broken concrete, treated tongue and groove timber, etc.)? _____

2. If riprap will be used for construction, provide the following information:
Average amount of cu yds per linear foot of structure _____
Will filter cloth be used? ___ Yes ___ No
Average weight of the: Core material (bottom layers) ____ pounds per stone Class _____
Armor material (top layer) ____ pounds per stone Class _____

3. What is the total length of the stabilization area, including returns? _____

4. Will any portion of the project be placed on wetlands or subaqueous land? __Yes __No.
If your answer is yes, complete the table below:

	Tidal (sq. ft.)	Nontidal (sq. ft.)
Vegetated		*
Nonvegetated		*
Subaqueous land		*

*** If nontidal wetland impacts will occur, please complete Part IV or V of the JPA.**

Specific Information for Plan View Drawing:

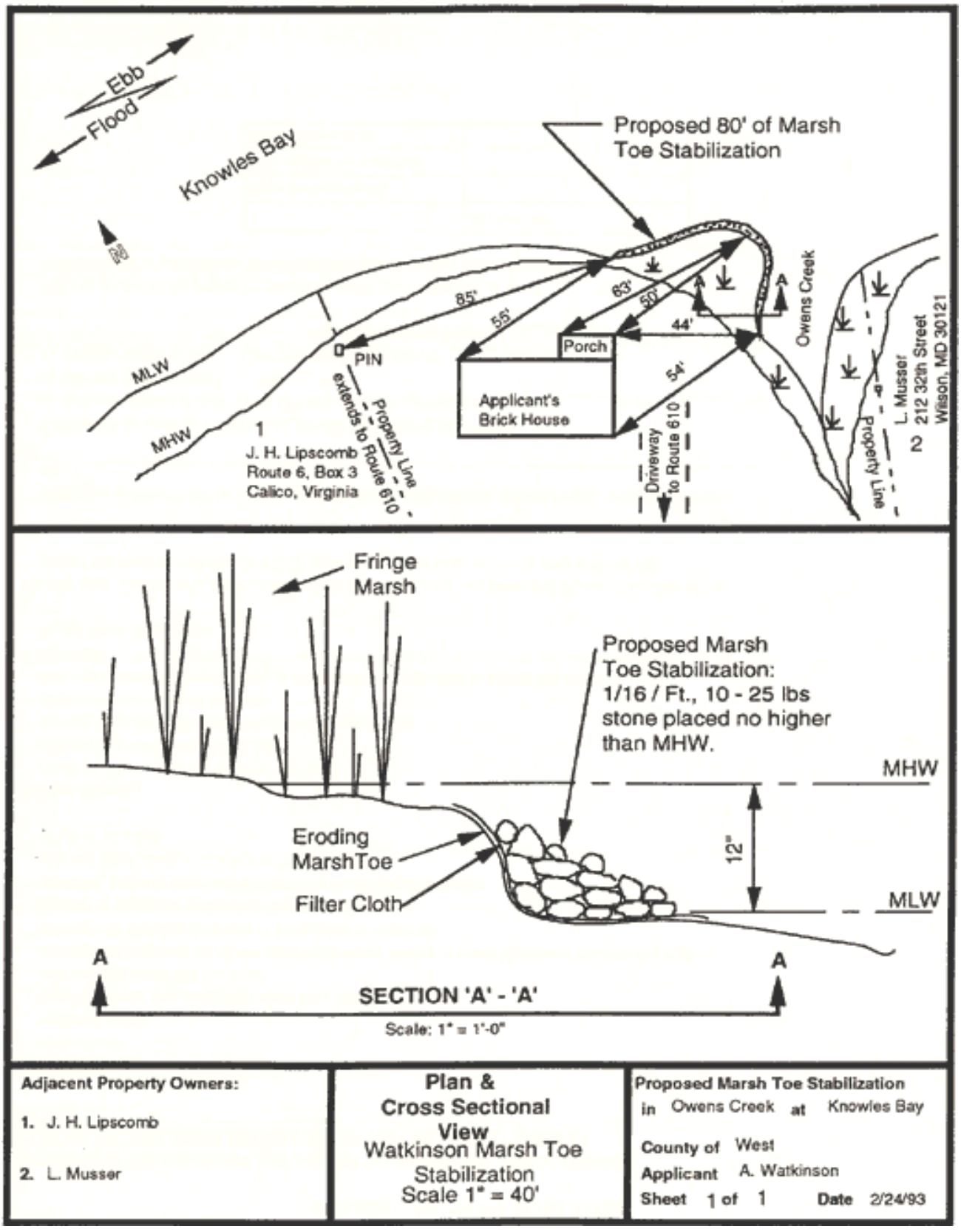
- existing and proposed structures showing distance relative to mean high/mean low water lines (tidal) or ordinary high water line (nontidal)

Specific Information for Cross-Sectional Drawing:

- existing contours of the bottom (depths relative to MLW or OHW)
- length, height, and base width of stabilization
- design & dimensions of structural components (e.g. deadmen, tie-backs, knee braces, or other anchors)
- filter cloth
- buried toe or riprap apron

Note: *Land disturbance or removal of vegetation associated with projects located in Chesapeake Bay Preservation Areas will require approval from local governments. Please contact your local government to determine local Chesapeake Bay Preservation Act requirements concurrent with this application.*

APPENDIX I, Marsh Toe Stabilization



Adjacent Property Owners:	Plan & Cross Sectional View	Proposed Marsh Toe Stabilization
1. J. H. Lipscomb	Watkinson Marsh Toe Stabilization	in Owens Creek at Knowles Bay
2. L. Musser	Scale 1" = 40'	County of West
		Applicant A. Watkinson
		Sheet 1 of 1 Date 2/24/93

APPENDIX J - DREDGING, MINING, & EXCAVATING

Questions:

1. Complete the table below with the volumes (cu. yds.) and areas (sq. ft.) of material to be removed from waters by each method, for each category:

	NEW				MAINTENANCE			
	Hydraulic	Dragline	Clamshell	Other	Hydraulic	Dragline	Clamshell	Other
Vegetated Wetlands*								
Nonveg. Wetlands*								
Subaqueous Land*								
Totals:								

* Report tidal and/or nontidal

2. State the composition of the material (e.g. clay 25%, sand 25%, silt 50%):_____

3. How will the dredged material be retained to prevent re-entry into the waterway?

_____

4. Will the dredged material be used for any commercial purpose? __ Yes ___ No

5. For mining projects: Explain the operation plans on a separate sheet of paper. Include the frequency (e.g. every 6 wks), duration (e.g. Apr - Sep), and volume (cu. yds.) to be removed per operation; the temporary storage and handling methods of dredged material; and how equipment will access the dredge site. Have you applied for a permit from the VA Dept of Mines, Minerals, & Energy? __ Yes __ No

6. For maintenance dredging projects: When was dredging last performed? _____
Provide permit number _____. Attach a copy of the permit.

7. What is the approximate drainage area and average stream flow? _____ sq mi _____ cfs

Specific Information for Plan View Drawing:

- width of the waterway, measuring from mean high water to mean high water (tidal areas) or ordinary high water to ordinary high water (nontidal areas)
- location and dimensions of area proposed to be dredged
- location of existing channels
- location of dredged material disposal area if located on-site** (for off-site areas: Provide a drawing
- that includes the location, dimensions, benchmarks, berms, and/or spillways. Also provide an explanation of how the material will be transported, including the location of the proposed transfer site(s). For non-commercially owned/operated disposal areas, attach local approvals for proposed disposal areas.
- location and dimensions of buffer zone between dredge cut and vegetated wetlands
- existing and proposed depths in the project area based on mean low water (tidal) or ordinary high water (nontidal)

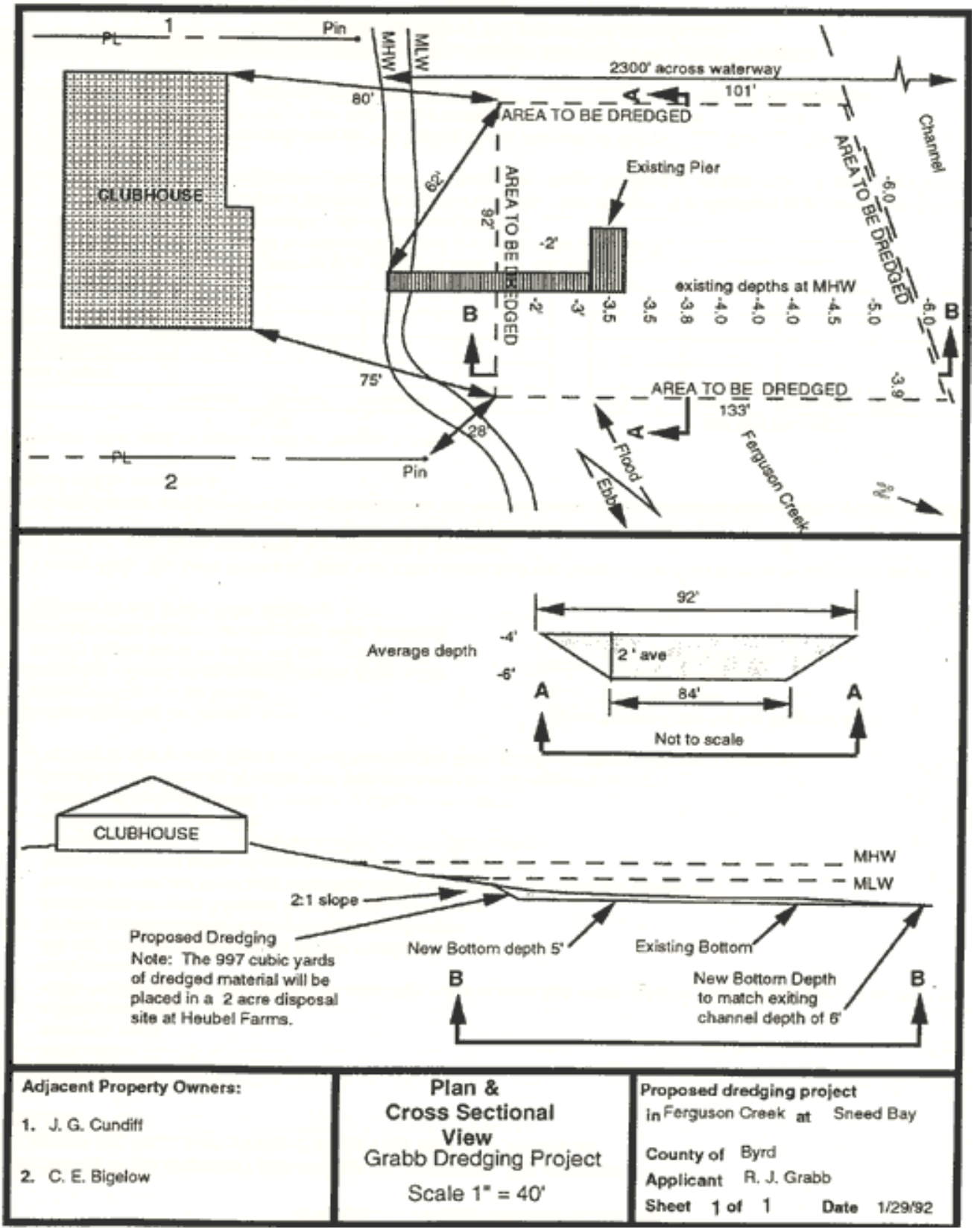
Specific Information for Cross-Sectional Drawing of Dredge Area:

- existing contours of the bottom (depths relative to MLW or OHW); include reference station & datum
- dredge cut: slopes, average depth, bottom & top width
- proposed project depths (after dredging)

Specific Information for Cross-Sectional Drawing of Disposal Area:

- proposed berms & spillways
- ponding depth of dredged material

Note: *Land disturbance or removal of vegetation associated with projects located in Chesapeake Bay Preservation Areas will require approval from local governments. Please contact your local government to determine local Chesapeake Bay Preservation Act requirements concurrent with this application.*



Adjacent Property Owners:	Plan & Cross Sectional View	Proposed dredging project
1. J. G. Cundiff	Grabb Dredging Project	in Ferguson Creek at Sneed Bay
2. C. E. Bigelow	Scale 1" = 40'	County of Byrd
		Applicant R. J. Grabb
		Sheet 1 of 1 Date 1/29/92

APPENDIX K - GROINS & JETTIES

Questions:

1. What type of material(s) are to be used for the construction?

_____

2. If using riprap, what will be the average weight of the:
Core material (bottom layers) _____ pounds per stone Class _____
Armor material (top layer) _____ pounds per stone Class _____
Will filter cloth be used? __ Yes __ No

3. Are there similar structures in the vicinity of the project site? __ Yes __ No If your answer is "yes", describe the type and location of the structures:

4. Will the channelward end of the structure be marked to show a hazard to navigation?
__ Yes __ No

5. Has the project been reviewed by the Shoreline Erosion Advisory Service (SEAS)?
__ Yes __ No If yes, please attach a copy of their comments.

Specific Information for Plan View Drawing:

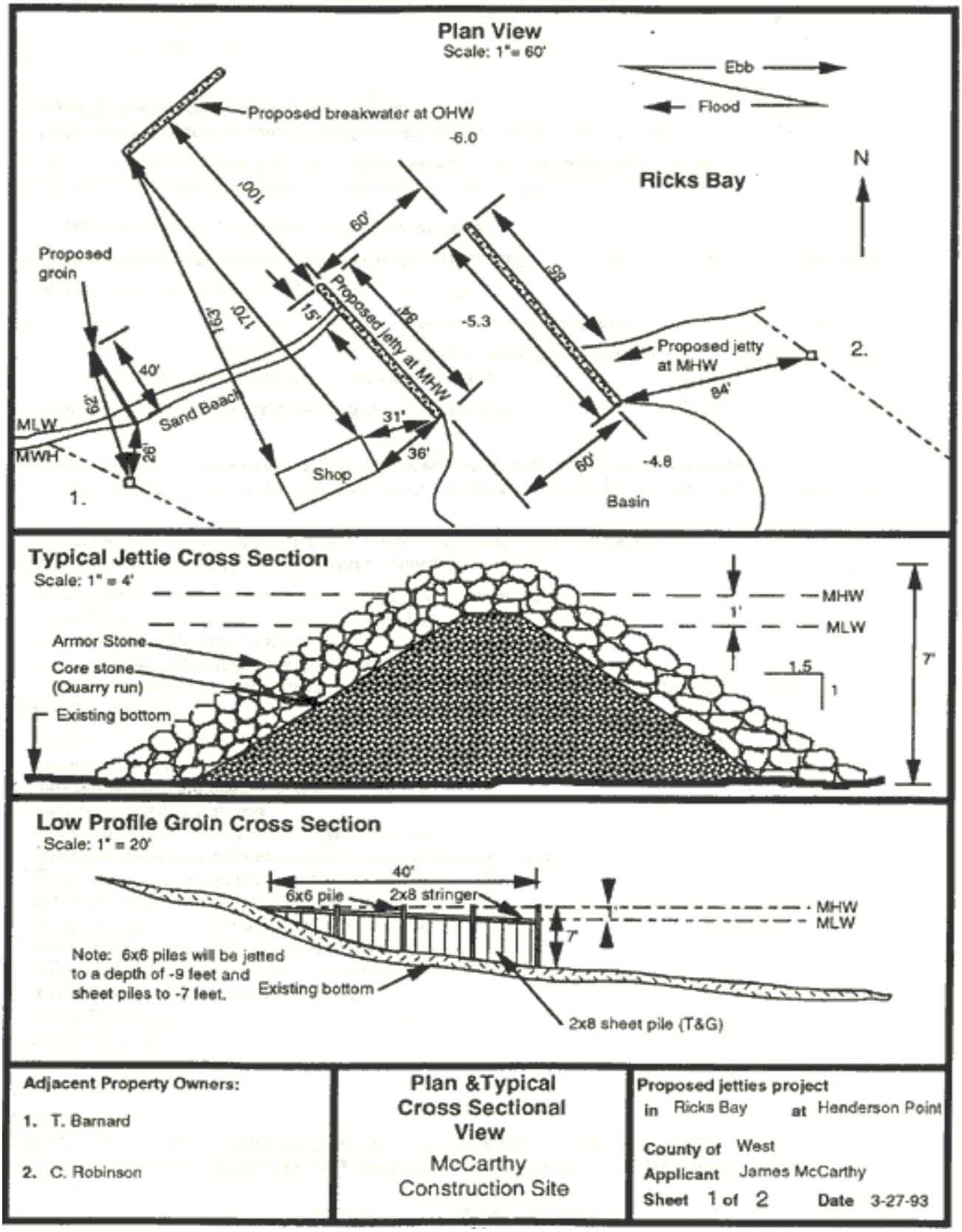
- location and distance from existing channels (marked and/or unmarked)
- direction of net sand transport along the shoreline
- location of scour protection or spurs (if applicable)
- channelward encroachment (including mooring piles) relative to mean high and mean low water lines

Specific Information for Cross-Sectional Drawing:

- existing contours of the bottom (depths relative to MLW or OHW)
- dimensions of structure including base width & top width
- height of structure over MLW, OHW, and/or existing wetlands, if applicable
- height of channelward end of groin relative to MLW or OHW

Note: *Land disturbance or removal of vegetation associated with projects located in Chesapeake Bay Preservation Areas will require approval from local governments. Please contact your local government to determine local Chesapeake Bay Preservation Act requirements concurrent with this application.*

APPENDIX K, Groins & Jetties



Adjacent Property Owners:

1. T. Barnard
2. C. Robinson

Plan &Typical Cross Sectional View

McCarthy Construction Site

Proposed jetties project
in Ricks Bay at Henderson Point

County of West
Applicant James McCarthy
Sheet 1 of 2 Date 3-27-93

APPENDIX L - BREAKWATERS

Questions:

1. What type of materials are to be used for the construction of the breakwater?

_____

2. If using riprap, what will be the average weight of the:
Core material (bottom layers) _____ pounds per stone Class _____
Armor material (top layer) _____ pounds per stone Class _____
Will filter cloth be used? __ Yes __ No

3. Are there similar structures in the vicinity of the project site? __ Yes __ No If your answer is "yes", describe the type and location of the structures:

4. What is the total length of the breakwater, including returns? _____

Specific Information for Plan View Drawing:

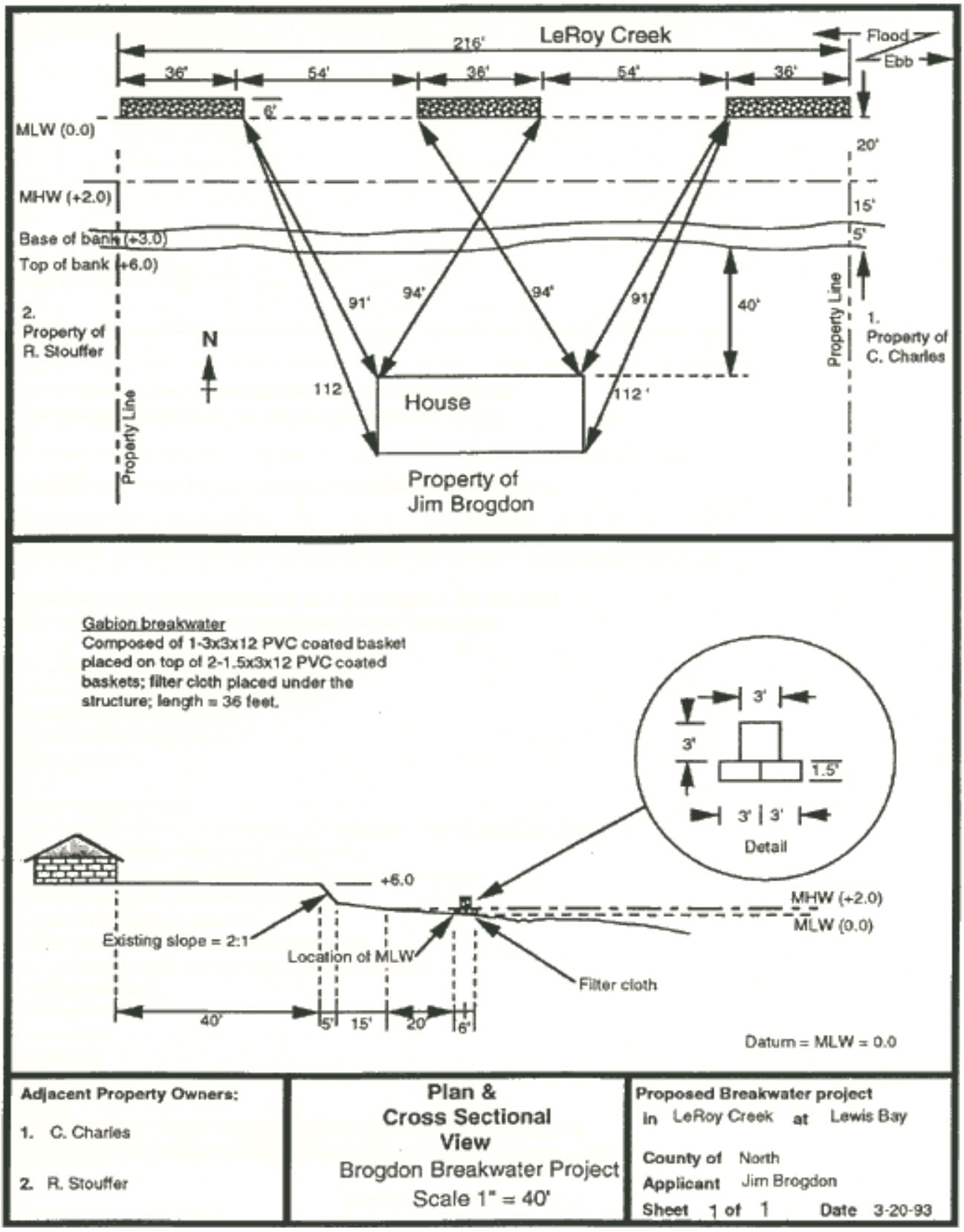
- channelward encroachment (including mooring piles) relative to mean high and mean low water lines

Specific Information for Cross-Sectional Drawing:

- existing contours of the bottom (depths relative to MLW or OHW)
- dimensions of structure including base width, top width, and slope

Note: *Land disturbance or removal of vegetation associated with projects located in Chesapeake Bay Preservation Areas will require approval from local governments. Please contact your local government to determine local Chesapeake Bay Preservation Act requirements concurrent with this application.*

APPENDIX L, Breakwaters



APPENDIX M - BEACH NOURISHMENT

Questions:

1. Provide the following:

Source of material: _____

Volume of material: _____ cu. yds.

Type and composition of material (e.g. sand 90%, clay 10%): _____

Mode of transportation to the project site (e.g. truck, pipeline, etc.): _____

2. Describe the type(s) of vegetation proposed for stabilization and the proposed planting plan, including schedule, spacing, monitoring, etc.:

Specific Information for Plan View Drawing:

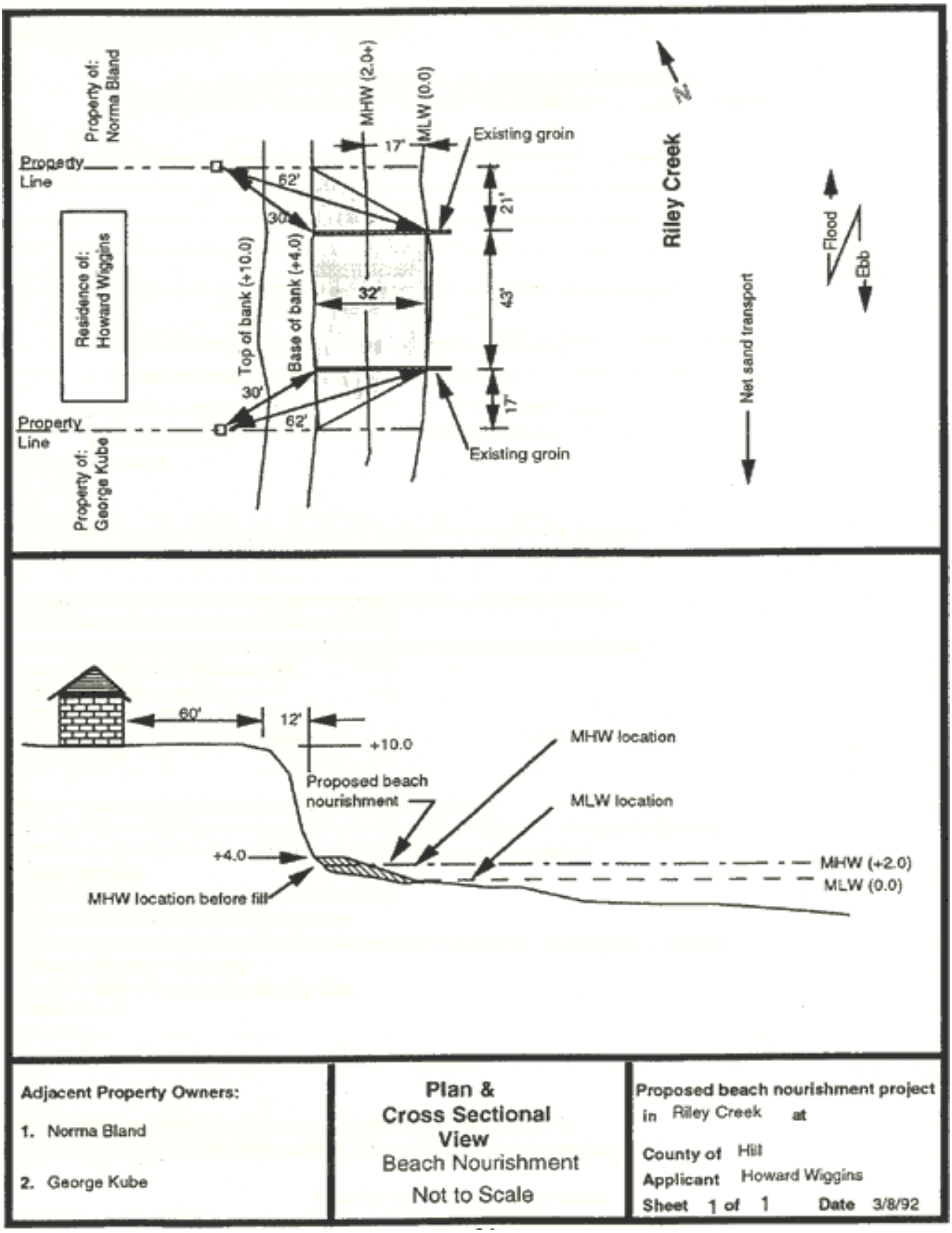
- channelward encroachment relative to mean high and mean low water lines
- dimensions of structures used to stabilize nourishment area
- label fill area and include sq footage
- location of marsh vegetation to be used for stabilization, if applicable

Specific Information for Cross-Sectional Drawing:

- contour and slope of existing beach and of the nourished area
- groins, breakwaters or other structures existing or proposed to stabilize the nourished area
- elevation at the channelward end of the nourished area
- elevation of vegetation to be planted relative to mean high/mean low/ordinary high water

Note: *Land disturbance or removal of vegetation associated with projects located in Chesapeake Bay Preservation Areas will require approval from local governments. Please contact your local government to determine local Chesapeake Bay Preservation Act requirements concurrent with this application.*

APPENDIX M, Beach Nourishment



Adjacent Property Owners:	Plan & Cross Sectional View	Proposed beach nourishment project
1. Norma Bland	Beach Nourishment	in Riley Creek at
2. George Kube	Not to Scale	County of Hill
		Applicant Howard Wiggins
		Sheet 1 of 1 Date 3/8/92

APPENDIX N - INTAKE/OUTFALL & WATER CONTROL STRUCTURES

Questions:

1. For Intake(s):

Type & size of pipe: _____

Daily rate of withdrawal _____ mgd and velocity _____ fps

Screen mesh size: _____inches _____mm _____other (specify)

For Outfall(s):

Type & size of pipe: _____

Daily rate of discharge _____ mgd

2 If discharge will be thermally enhanced, provide the maximum temperature: _____

3. Will any structure (wingwalls, splash apron, etc.) impact wetlands or subaqueous land?
__ Yes __ No. If your answer is yes, complete the table below:

	Tidal (sq. ft.)	Nontidal (sq. ft.)
Vegetated		*
Nonvegetated		*
Subaqueous land		*

*** If nontidal wetland impacts will occur, please complete Part IV or V of the JPA.**

4. What is the approximate drainage area and average stream flow at intake? _____ sq. mi. _____ cfs at outfall? _____ sq. mi. _____ cfs

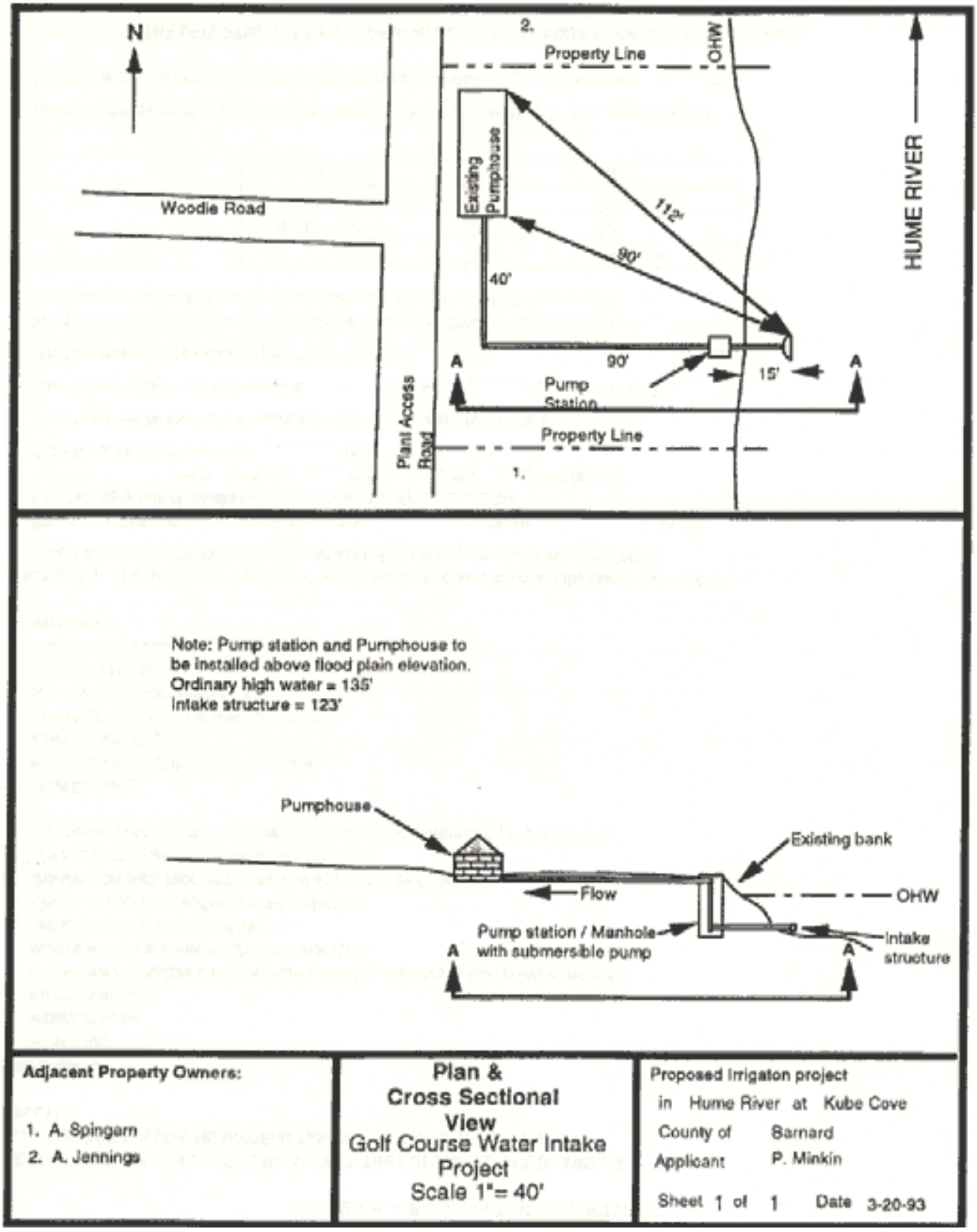
Specific Information for Plan View Drawing:

- channelward encroachment relative to mean high/mean low water lines (tidal) or ordinary high water line (nontidal)

Specific Information for Cross-Sectional Drawing:

- existing contours of the bottom (depths relative to MLW or OHW), and of banks
- intake and/or outfall pipe(s)
- supporting structures, including splash apron, wing walls, bank erosion controls, if applicable
- filter cloth

APPENDIX N, Intake / Outfall Structures



APPENDIX O - NONTIDAL STREAM CHANNEL MODIFICATIONS

Questions:

1. Provide the following:

Approximate normal flow rate and drainage area of the existing water body: ____ cfs _____ sq. mi.

Approximate normal flow rate and drainage area of the new or modified water body: ___ cfs ____ sq. mi.

Method used to stabilize the banks:

Type and approximate composition percentage of the existing stream bed (e.g. cobble 35%, rock 45%, sand 20%, etc.):

_____

2. Will low flow channels be maintained? __ Yes __ No

3. Will any structures be placed in the stream to create riffles, pools, meanders, etc? If "Yes" please explain.

Specific Information for Plan View Drawing:

- location, length and width (from OHW to OHW) of the existing channel
- location, length and width of the proposed channel
- location of existing and proposed nonvegetated wetlands, and vegetated or nonvegetated bars, islands, riffles, and pool complexes or other special aquatic sites at the project site
- location and dimensions of bank stabilization structures

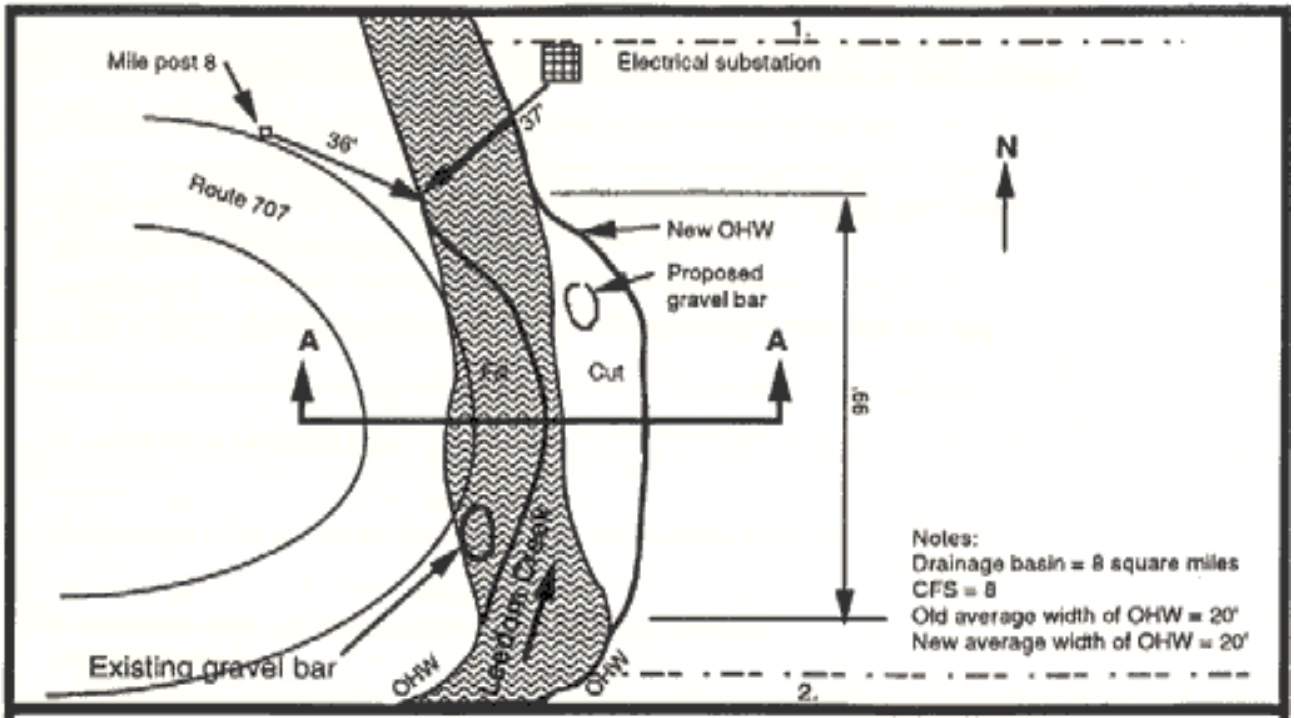
Specific Information for Cross-Sectional Drawing of Existing Channel:

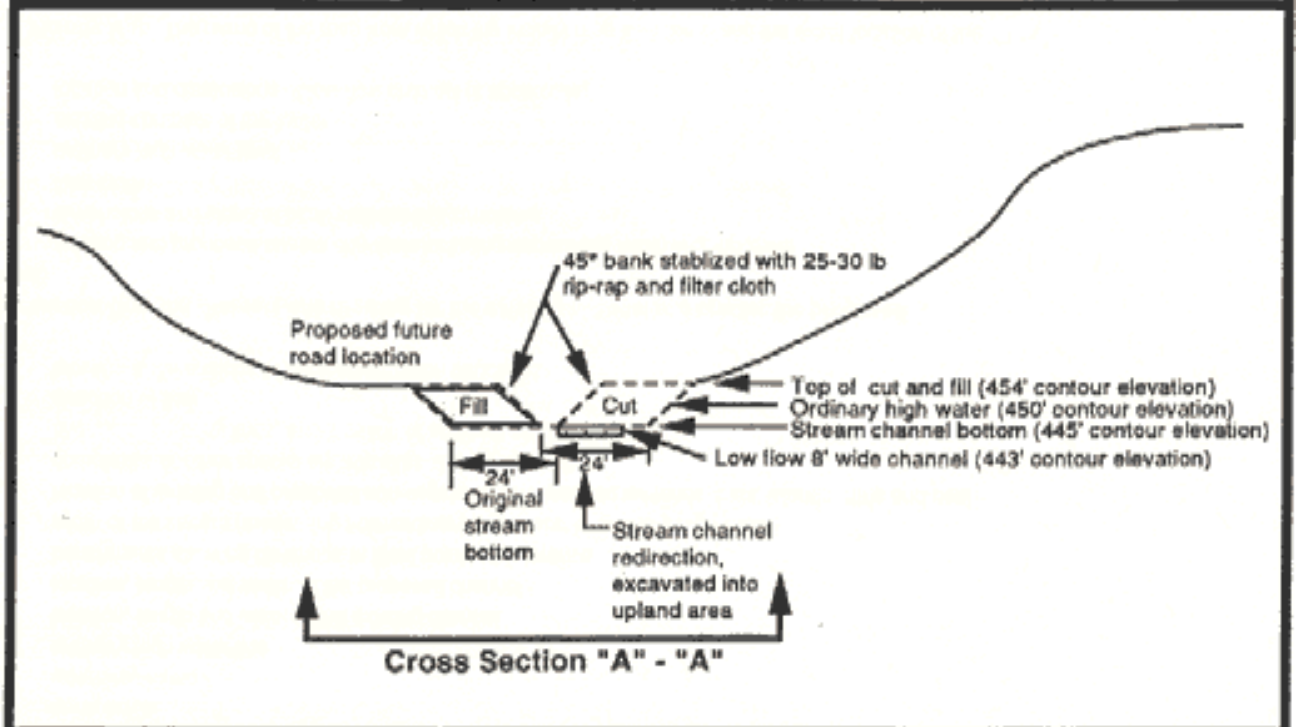
- existing contours of the bottom (depths relative to OHW)
- existing stream channels, including depth, base width, & top width
- dimensions and slope of bank stabilization structures
- filter cloth
- location and dimensions of low flow channel, if applicable

Specific Information for Cross-Sectional Drawing of Proposed Channel:

- proposed bottom contours (depths relative to OHW)
- proposed stream channels, including depth, base width, & top width
- dimensions and slope of bank stabilization structures
- filter cloth
- location and dimensions of low flow channel, if applicable

APPENDIX O, Nontidal Stream Channel Modifications





Adjacent Property Owners:	Plan & Cross Sectional View	Proposed stream channel modification
1. J. G. Smith	Construction site	in Leedom Creek at Big Mount
2. C. E. Barton	Scale 1" = 40'	County of Thomas
		Applicant R. Henderson
		Sheet 1 of 1 Date 1/29/92

APPENDIX P - IMPOUNDMENTS, DAMS, & STORMWATER MANAGEMENT FACILITIES

Questions:

1. Materials to be used for construction (e.g. earth, rock, concrete, etc.)? _____
Source of materials: _____

2. The impoundment's storage capacity will be _____ acre-feet and its surface area will be _____ acres. For stormwater management facilities, what is the design storm event with 24 hours of retention? _____

3. What is the current average flow? _____ cfs; the proposed outflow? _____ cfs
Will the impoundment structure be designed to pass a minimum flow at all times?
__ Yes __ No. If "Yes", what will be the minimum rate of flow? _____ cfs

4. What is the drainage area of the water body upstream of the proposed impoundment?
____ sq mi

5. Does your project comply with State Dam Safety Criteria? __ Yes __ No __ Uncertain
If your answer is "No" or "Uncertain", contact the Dept. of Conservation & Recreation's Dam Safety Program at telephone (804) 371-6095 or reference the web site http://www.dcr.state.va.us/sw/damsafty.htm.

6. How much of impoundment structure will be located on the stream bed? _____ sq ft
What will be the area of waters affected/flooded by the impoundment?
Wetands: _____ acres Streams: _____ sq. ft.

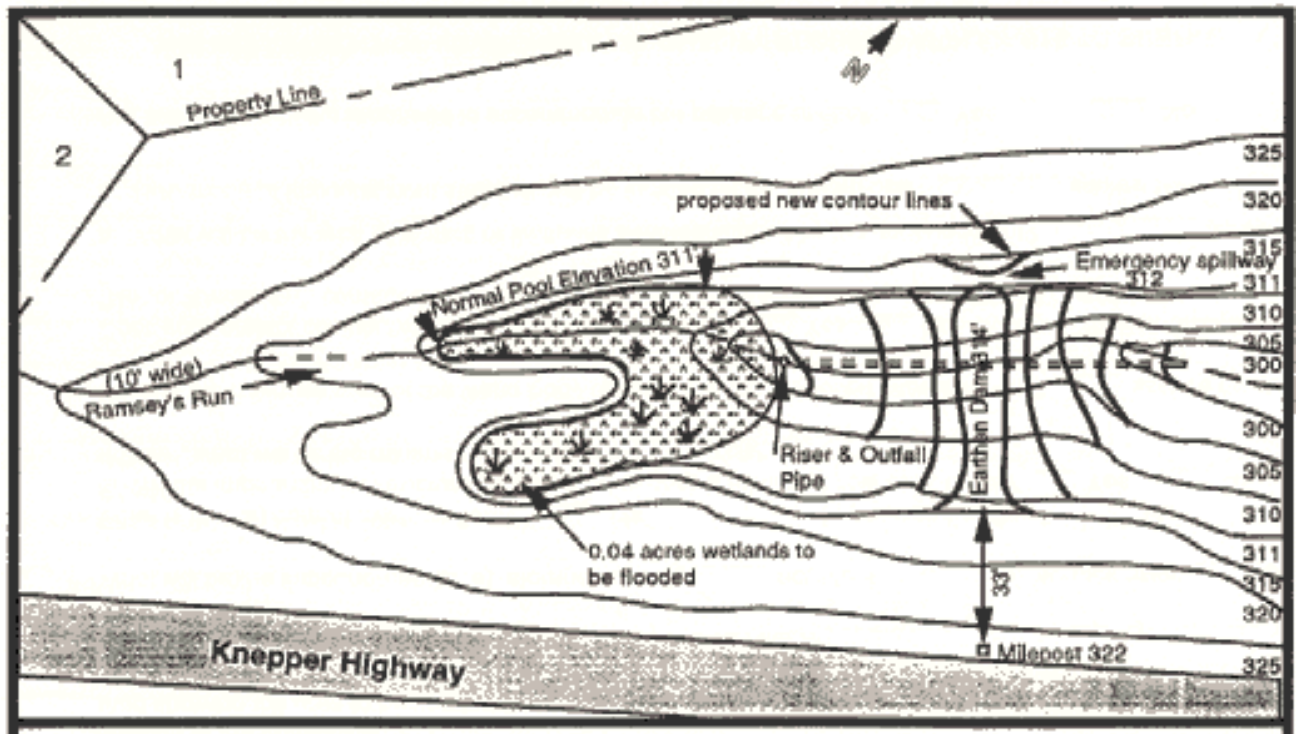
7. Are fish ladders being proposed to accommodate the passage of fish?__ Yes __ No

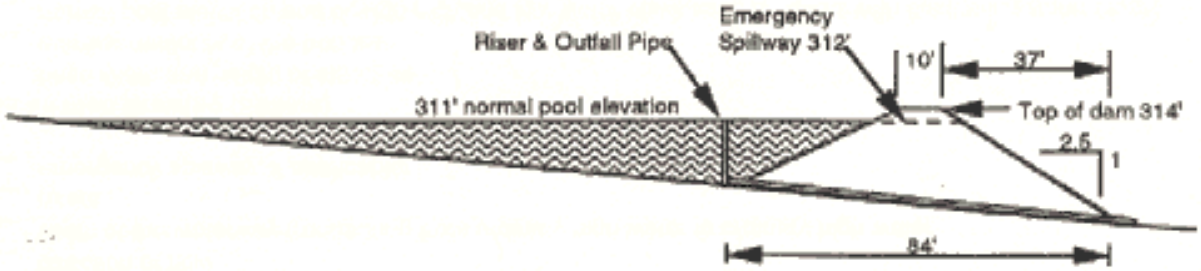
Specific Information for Plan View Drawing:

- width of the waterway, measuring from mean high water to mean high water (tidal areas) or ordinary high water to ordinary high water (nontidal areas)
- area to be flooded
- risers, emergency spillway, if applicable

Specific Information for Cross-Sectional Drawing of Proposed Structure:

- existing contours of the bottom (depths relative to MLW or OHW)
- for dams with fluctuating water levels, normal pool elevation and design high & low water elevations (i.e. hydropower or water supply reservoirs)
- risers, emergency spillway, if applicable





Adjacent Property Owners:	Plan & Cross Sectional View	Proposed recreational / farm pond
1. J. G. Smith	O. McDonalds Pond	In Ramsey's Run at
2. C. E. Barton	Scale 1" = 40'	County of West
		Applicant O. McDonald
		Sheet 1 of 1 Date 1/29/92

APPENDIX Q - UTILITY CROSSINGS

Questions:

1. Describe the type of crossing (overhead, underground, etc.), materials to be used, including gravel bedding, the method of construction, and the order in which the construction will be accomplished. Include use of mechanized land clearing versus hand cutting above soil surface:

2. For overhead crossings: if there are other overhead crossings or bridges in the area, how high are they relative to mean high/low water or ordinary high water? _____

3. If the project is a power line crossing, what will be the nominal system voltage of the line? _____

4. Will there be an excess of excavated material? __Yes __ No If yes, please describe the method of transporting and disposing of the material:

5. What is the approximate drainage area and average stream flow? _____ sq. mi._____ cfs

6. Will excess material be temporarily stockpiled in wetlands? __Yes __ No If "Yes", will the stockpiled material be placed on filter fabric or some other type of impervious surface? __Yes __ No

Specific Information for Plan View Drawing:

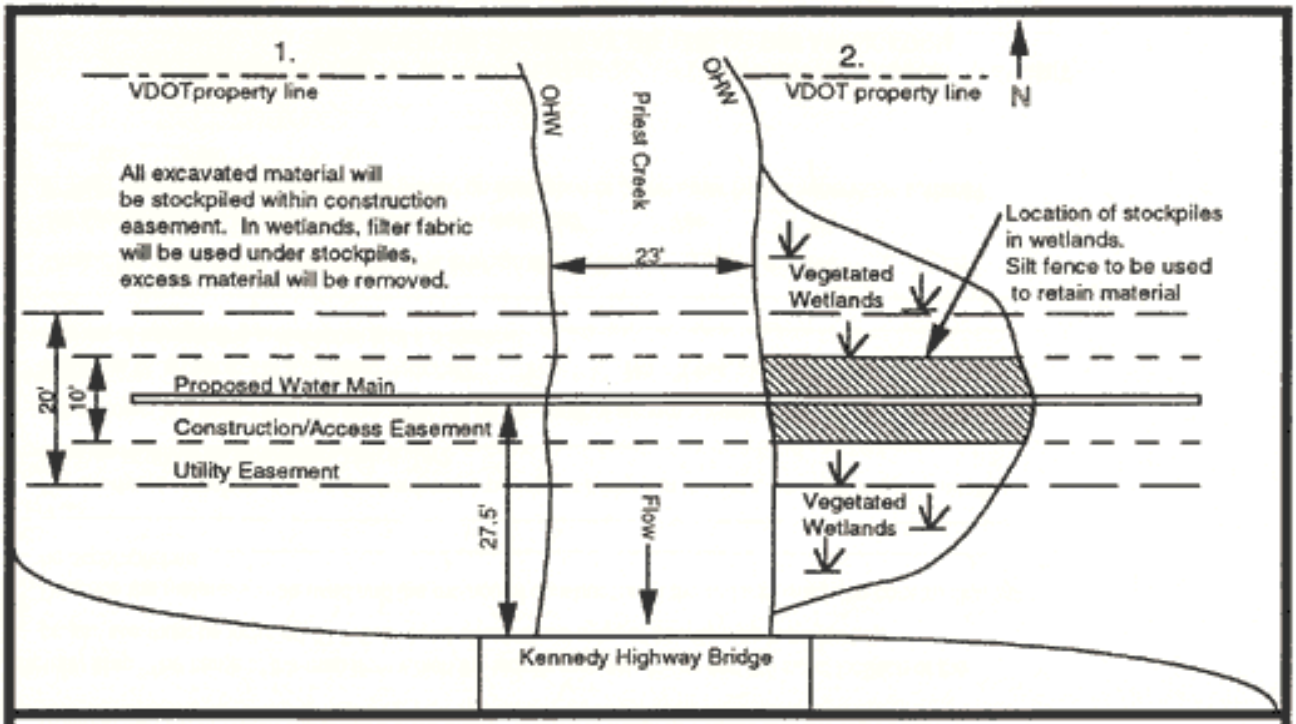
- width of the waterway, measuring from mean high water to mean high water (tidal areas) or ordinary high water to ordinary high water (nontidal areas)
- type and location of support structures (i.e. towers, poles, platforms)
- location of temporary stockpiles for excavated material, if applicable
- location of temporary construction access
- location of utility line/maintenance right of way

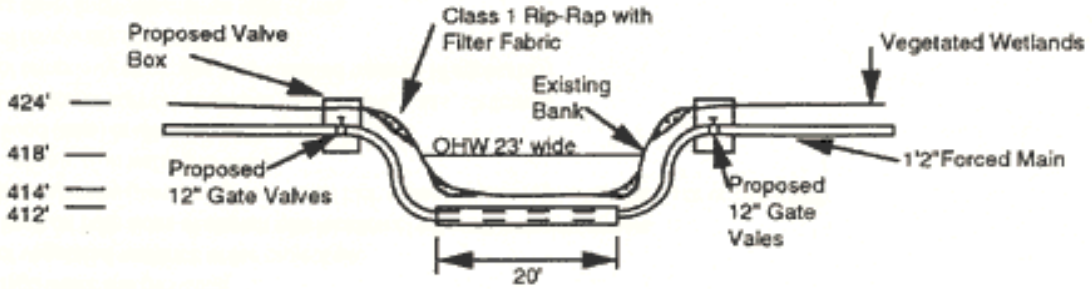
Specific Information for Cross-Sectional Drawing:

- existing contours of the bottom (depths relative to MLW or OHW)
- vertical distance above mean high/mean low or ordinary high water for overhead crossings
- depth below stream bottom for submarine crossings
- distance that the structure will cross the waterbody relative to MLW or OHW

Note: *Land disturbance or removal of vegetation associated with projects located in Chesapeake Bay Preservation Areas will require approval from local governments. Please contact your local government to determine local Chesapeake Bay Preservation Act requirements concurrent with this application.*

APPENDIX Q, Utility Crossings





Adjacent Property Owners: 1. C. Schulz 2. K. Mayne	**Plan & Cross Sectional View** Jennings Sewage Line Scale 1" = 20'	**Proposed Utility Line Crossing** in Priest Creek **County of** West **Applicant** Arthur Jennings **Sheet** 1 **of** 1 **Date** 1/29/92

APPENDIX R - ROAD CROSSINGS

Questions:

1. On a separate sheet of paper, describe the materials to be used, the method of construction, and the order in which the construction will be accomplished including cofferdams, if applicable.

2. What is the approximate drainage area and average flow rate of the stream? _____sq mi _____ cfs

3. Will any fill will be located on wetlands or subaqueous land? __Yes __ No. If your answer is yes, complete the table below:

	Tidal (sq. ft.)	Nontidal (sq. ft.)
Vegetated		*
Nonvegetated		*
Subaqueous land		*

*** If nontidal wetland impacts will occur, please complete Part IV or V of the JPA.**

4. Have you conducted hydrologic/hydraulic studies to verify adequacy of the culverts? __Yes __ No. If your answer is "Yes", please attach a copy of the study/report. NOTE: Virginia Department of Transportation (VDOT) standards require that the backwater for a 100 year storm not exceed 1 foot for all road, culvert, and bridge projects within FEMA-designated floodplains.

5. If the project is a bridge crossing and there are similar crossings in the area, what is the vertical distance above mean high/low water or ordinary high water for the other crossings?

_____

Specific Information for Plan View Drawing:

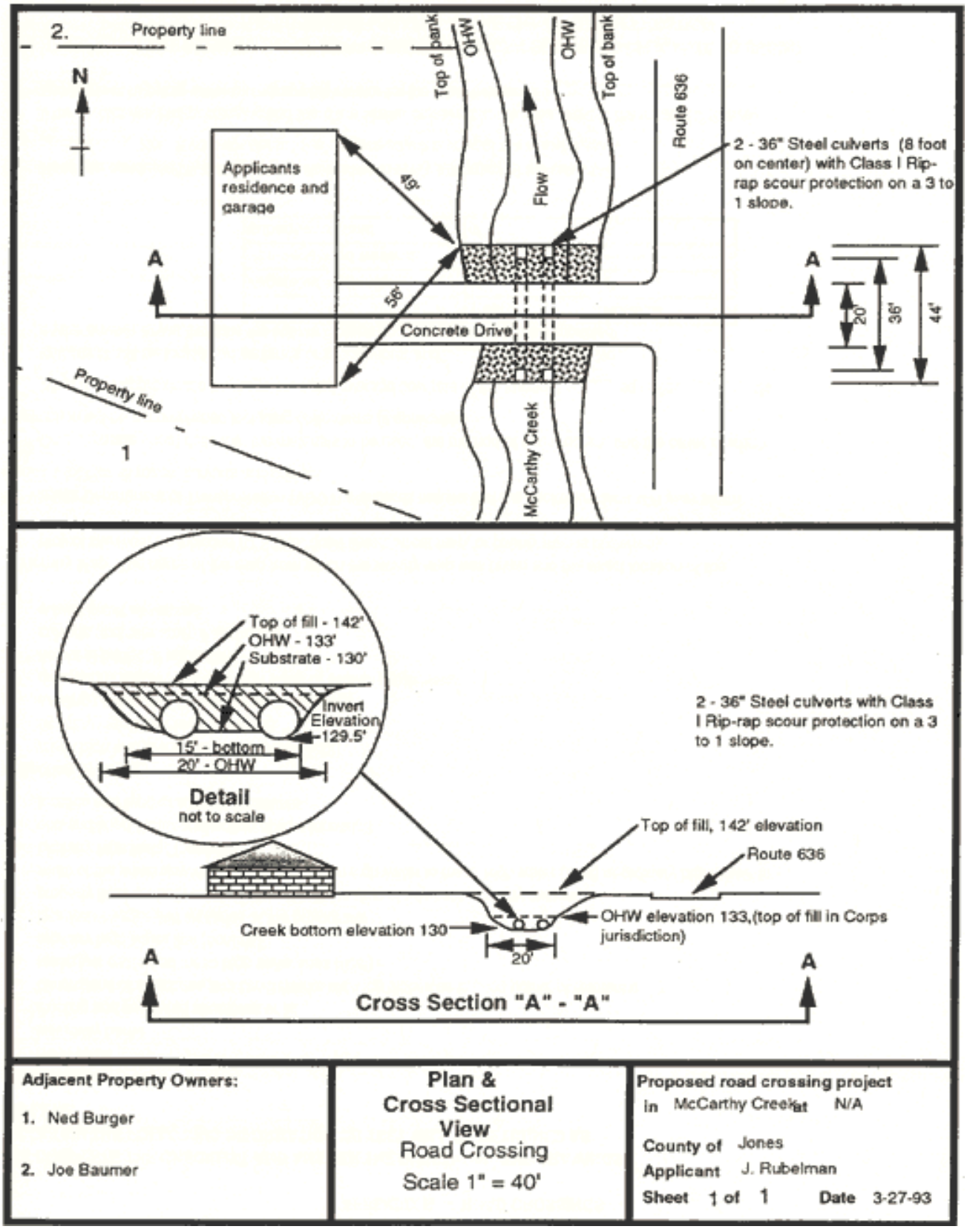
- width of the waterway, measuring from mean high water to mean high water (tidal areas) or ordinary high water to ordinary high water (nontidal areas)
- location and type of support structures

Specific Information for Cross-Sectional Drawing:

- existing contours of the bottom (depths relative to MLW or OHW)
- height of bridge, if applicable
- culverts and size, if applicable
- culvert invert elevations

Note: *Land disturbance or removal of vegetation associated with projects located in Chesapeake Bay Preservation Areas will require approval from local governments. Please contact your local government to determine local Chesapeake Bay Preservation Act requirements concurrent with this application.*

APPENDIX R, Road Crossings



Adjacent Property Owners:

1. Ned Burger
2. Joe Baumer

Plan & Cross Sectional View
Road Crossing
Scale 1" = 40'

Proposed road crossing project
In McCarthy Creek at N/A
County of Jones
Applicant J. Rubelman
Sheet 1 of 1 Date 3-27-93

APPENDIX S - PRIVATE & COMMERCIAL AQUACULTURE ACTIVITIES

Questions:

1. Briefly describe your proposed aquaculture activity from the time of acquisition (seed, fingerlings, etc.) to time of harvest, and indicate which species you intend to culture.

2. What is the source of the animals/plants you intend to culture?
(Note: VMRC Regulation 4VAC 20-754 et seq. "Pertaining to the Importation of Fish, Shellfish or Crustacea" sets forth the requirements for importing organisms from out of State).

3. Describe the number, type and dimensions of the structures that will be used (e.g., 4' x 2' X 18" floats, 3' x 3' x 1' bottom cages, etc.) and the overall dimensions of the area to be occupied by the aquaculture structures (e.g. two 40-foot by 10-foot bottom plots, etc.)

4. Will the structures be affixed to an existing structure? ___ Yes ___ No. If yes, describe.

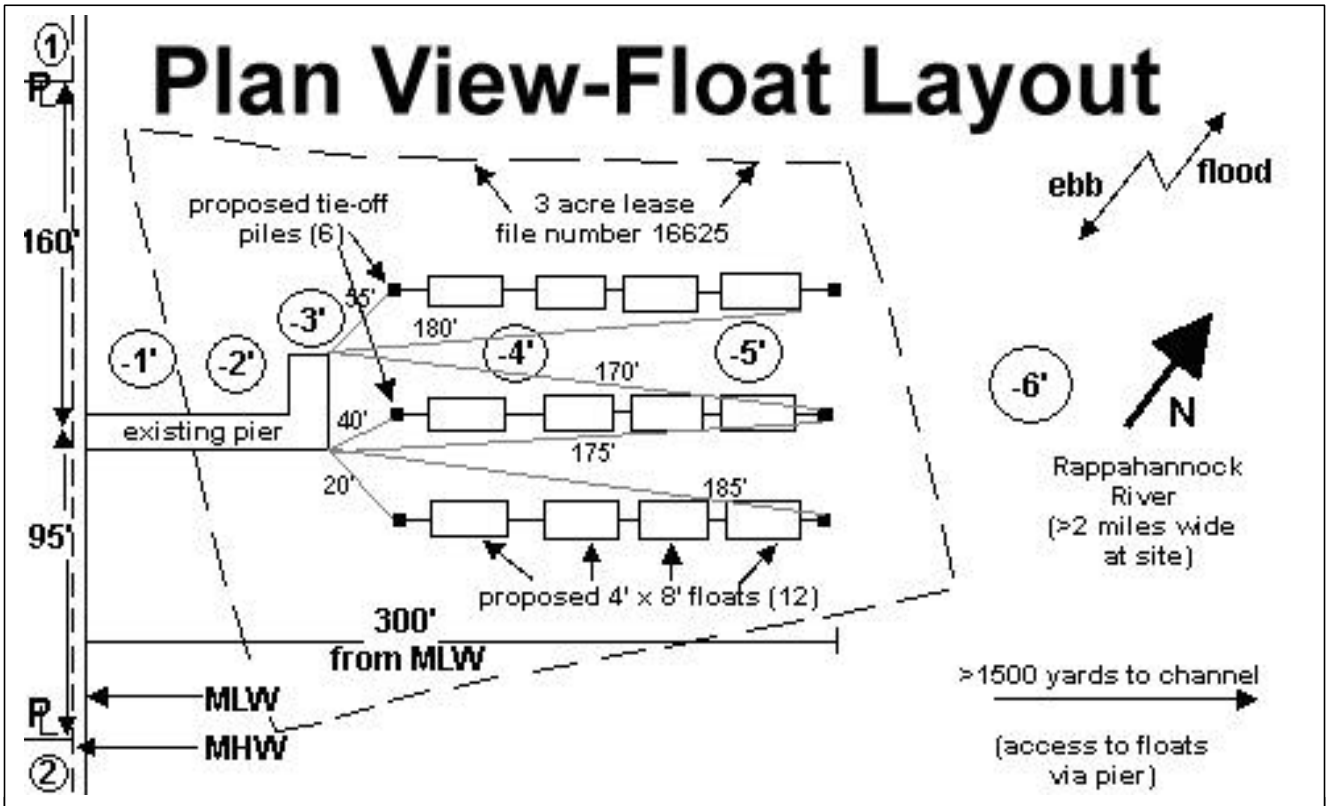
5. Will the structures be located on leased oyster planting ground? If so, provide lease and plat file number: Lease no._____ Plat file no._____

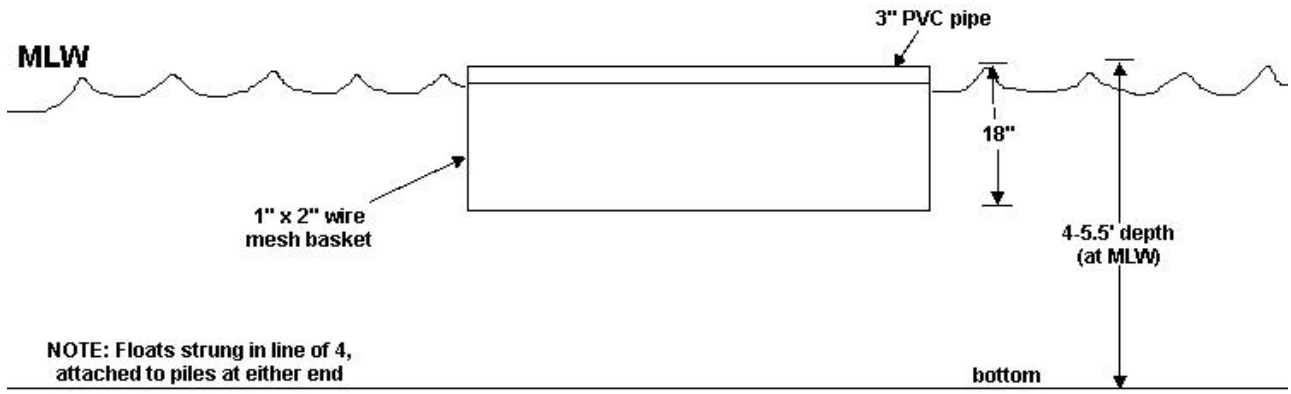
Specific Information for Plan View Drawing:

- width of the waterway, measuring from mean high water to mean high water (tidal areas) or ordinary high water to ordinary high water (nontidal areas)
- the overall dimensions of the area to be occupied by the aquaculture structures
- location and distance from existing channels (marked and/or unmarked)
- soundings taken at mean low water (tidal areas) or at full pool level (nontidal areas) in the location of the proposed structures
- channelward encroachment of structures relative to mean high and mean low water lines
- location of any Submerged Aquatic Vegetation (SAV) in the area

Specific Information for Cross-Sectional Drawing:

- detailed dimensions of the proposed structures, including anchoring or tie-off system to be used
- existing contours of the bottom (depths relative to MLW or OHW) and height above the bottom and below the surface of the structures





Adjacent property owners: **1. L.B. Smith** **2. J.R. Jones**	**Plan and Section View** **L&W Seafood, Inc.**	**Proposed aquaculture project** **Rappahannock River** **Lancaster County** **Sheet 1 of 3 10/1/02**