



**BOONSBORO MUNICIPAL UTILITIES COMMISSION
AGENDA**

Wednesday, January 15, 2025 @ 6:00PM

CALL TO ORDER @ 6:00PM – *Chairman Colin Shanaberger*

ROLL CALL

MINUTES

- Meeting Minutes for December 18, 2024

TREASURER'S REPORT – *Tony*

PUBLIC COMMENTS

OLD BUSINESS & UPDATES

- Shafer Park Well update – *Pete*
- Reservoir Update – *Pete & Drew*
- Crestview Water Pressure Reduction & Bypass Project – *Drew*
- Internal Water Audit – *Drew*
- Controlled Growth Planning – *Colin*

NEW BUSINESS

- Water & Sewer Hydraulic Models Developed by WRA
- Route 34 Pump Station
- Connection Fees – Adjustments Needed?
- Fletcher's Grove Surcharge

SYSTEMS REPORT – *Pete Shumaker, W/S Superintendent; Greg Huntsberry, PW Superintendent; Drew Bowen, Town Planner*

ADJOURN

NEXT MEETING – February 19, 2025 @ 6PM

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**BOONSBORO MUNICIPAL UTILITIES COMMISSION
WEDNESDAY DECEMBER 18, 2024
MEETING MINUTES**

The Boonsboro Municipal Utilities Commission (BMUC) held a Regular Meeting on Wednesday, December 18, 2024 in the Meeting Chambers

CALL TO ORDER @ 6:00 PM – Chairman Colin Shanaberger

ROLL CALL – Present: Chairman Colin Shanaberger, Assistant Chairman Loren Norris, Commission Members Chad Matthews, Bobby Mose and Dave Wade. **Also Present:** Water/Sewer Superintendent Pete Shumaker, Public Works Superintendent Greg Huntsberry, BMUC Liaison Tony Nally, Town Manager Rachel Souders. **Absent Member was Terry Davis.**

REVIEW & APPROVAL OF MINUTES - Motion by Chairman Shanaberger and second by Commission Member Dave Wade to approve the November 20, 2024 Minutes. **Motion carried unanimously.**

REVIEW & APPROVAL OF TREASURER’S REPORT

Motion by Chairman Shanaberger and second by Commission Member Norris to approve the November 2024 Treasurer’s Report. **Motion carried unanimously.**

PUBLIC COMMENTS- None

OLD BUSINESS & UPDATES

- Shafer Park Well update – Water/Sewer Superintendent Shumaker stated that Phillips Well drilling will finish the project on January 8th. This includes the well decommissioning and the new well hook-up.
- Reservoir Update – Town Manager Souders stated a Pre-Construction meeting was held with HRI and there was a decision made for a February start date. Souders stated that HRI will be requesting Washington County to close a portion of Boonsboro Mountain Rd. during construction. Water/Sewer Superintendent Shumaker stated that he met with Steve with Welltech about the communication system between water facilities.
- Crestview Water Pressure Reduction & Bypass Project –Town Manager Souders stated that the Town has received 60% completed plans from WRA. The Commission requested Souders email copies of the plans. Commission Member Norris asked Souders if the plans included an area for future meters to be installed. She responded she would check.
- Internal Water Audit – No update.
- Ordinance Regarding Water & Wastewater Pre-Treatment – Town Manager Souders stated the Town already has Ordinance 2014-04, Amendment to Chapter 9 of the Code of the Town of Boonsboro Entitled Sewer Ordinance in place to manage Water & Wastewater pre-treatment. No action is needed from the Commission.

NEW BUSINESS

- Controlled Growth Plan- BMUC Chairman Shanaberger stated the importance of having a growth plan in place. He stated the Commission should continue with future conversations. BMUC



Liaison Nalley asked Town Manager Souders when the last time Tap Fees were increased. Town Manager Souders stated Town Planner Bowen just recently revised the Fee Schedule with 2022 amounts. Councilman Kitchen asked if there were different usage rates, fixed fees and Tap Fees for Out-of-Town residents. Yvette May stated yes there are different usage rates and fixed fees for Out-of-Town water residents but not Tap Fees. The Commission also reviewed the EDU Calculation Worksheet.

- Route 34 Pump Station- Town Manager Souders stated the meeting with Steve Odor concerning the Kueffner property had been moved to January 6, 2025. She will have more information to report back to the Commission next month about the Route 34 Pump Station after that meeting.
- BKWAB December 11, 2024 Meeting Update - BMUC Liaison Nalley reviewed the Boonsboro Keedysville Water Commission FY24 True-up and FY25 Projections with the Commission. Town Manager stated that the Town's lawyer is currently reviewing the agreement between Keedysville and Boonsboro and comments will follow.
- FY25 Fletcher's Grove Surcharge- Councilman Kitchen stated he wanted to confirm the surcharge project in Fletcher's Grove is still a priority for FY25. Town Manager Souders stated yes the surcharge is still on the Budget for FY25 and there may be possible funding contributed from Tap Fees.

SYSTEMS REPORT

- Water/Sewer Superintendent Shumaker stated that Phillips Well Drilling with complete the Shafer Park Well on January 8, 2025. He stated there are still some issues with the Keedysville pump being repaired and stated he had contacted M& L to speed up the repair time. Shumaker stated he is also having issues with the Chlorine Analyzer and the new pump for the Route 34 Station still has not been received so he is working with no available replacement pumps.
- Public Works Superintendent Greg Huntsberry stated that 7700 Old National Pike, Branded, is in the process of installing grinder pumps. He stated he will check the grease traps at that location. Huntsberry stated he found that 7841 Old National Pike is still hooked to the existing well as well as Public Water. He stated that the houses along Alt 40 were required to disconnect from their existing wells and hook into the Town's public water system after the MDE findings as part of the Alt 40 project. He assumed Washington County or the MDE inspected these homes. Superintendent Huntsberry updated the Commission that there were no recent updates on the Easterday properties. Huntsberry stated his crew had 3 Keedysville and 5 Boonsboro water Shut offs and had started the quarterly meter reading.
- Town Planner Drew Bowen - *absent*

ADJOURN - Motion by Chairman Shanaberger second by Commission Member Mose to adjourn meeting at 7:07pm. **Motion carried unanimously.**

NEXT MEETING – January 15, 2025 @ 6PM

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December 2024

ICS

YTD Interest

Prior YTD Interest

WATER FUND CHECKING - Recap

WF GENERAL LEDGER BEGINNING BALANCE \$1,325,295.90
BALANCE: \$1,325,295.90

Keedysville CC	-
Water	44,128.47
Sewer	47,734.13
Sanitation	2,738.07

Note: the balances don't include the returned check or open applied amount

Add Deposits:

Collections/Payment Deposits \$99,989.97
 Transfers from other accounts \$0.00
 Sewer Fund Deposits (reimbursements) \$957.55
 Keedysville Check \$0.00
 Keedysville Administrative Fee - Qtrly \$0.00
 Grant Income \$0.00
 Miscellaneous Deposits \$0.00
 Interest \$3,957.28

November 2024 A/P Reimbursements

TOTAL DEPOSITS WF: \$104,904.80

\$19,965.24 \$318.63

Deposits In Transit \$0.00
 Sweeps In Transit \$0.00

SUB-TOTAL WF: \$1,430,200.70

Less Withdrawals:

Checks written (\$19,184.10)
 EFT Payments (\$4,204.77)
 Transfers to General Fund Account (\$51,469.91)
 Transfers to General Fund Account \$0.00
 Transfers to Sewer Account (\$305,446.56)
 Transfers to Other Accounts \$0.00
 Transfers to Keedysville Utility (\$8,150.65)
 Transfers to Keedysville Utility \$0.00
 Returned Items \$0.00
 Credit Card fees \$0.00
 Bank Fees \$0.00

November 2024 A/P Reimbursements

October & November 2024 Sewer Collections

November 2024 Credit Card Collections

TOTAL WITHDRAWALS WF: (\$388,455.99)

Less Outstanding Checks \$0.00
 Sweeps In Transit \$0.00

SUB-TOTAL WF: (\$388,455.99)

WF ICS CHECKING ENDING BALANCE: **\$1,044,150.72**

Plus Deposits In Transit \$1,713.47

Less Outstanding Checks (\$4,119.48)

WF GENERAL LEDGER ENDING BALANCE: **\$1,041,744.71**

VARIANCE: \$0.00

December 2024		ICS	YTD Interest	Prior YTD Interest
SEWER FUND CHECKING - Recap				
SF GENERAL LEDGER BEGINNING BAL	\$295,659.64			
BALANCE:	\$295,659.64			
ADD DEPOSITS:				
Sewer Payment Deposits	\$0.00			
Transfers from Water Fund	\$305,446.56	October & November 2024 Sewer Collections		
Transfer from General Fund	\$0.00			
Miscellaneous Deposits	\$0.00			
Miscellaneous Deposits	\$0.00			
Interest	\$884.42		\$5,514.76	\$75.91
TOTAL DEPOSITS SF:	\$306,330.98			
Deposits In Transit	\$0.00			
Sweeps In Transit	\$0.00			
SUB-TOTAL SF:	\$601,990.62			
LESS WITHDRAWALS:				
Checks written	(\$156,728.35)			
EFT Payments	\$0.00			
Transfers to General Fund Account	(\$38,312.45)	November 2024 A/P Reimbursements		
Transfers to Water Account	(\$957.55)	November 2024 A/P Reimbursements		
Transfers to Other Accounts	\$0.00			
Returned Items	\$0.00			
Bank Fees	\$0.00			
Miscellaneous Withdrawals	\$0.00			
TOTAL WITHDRAWALS SF:	(\$195,998.35)			
SF ICS CHECKING ENDING BALANCE:	\$551,330.71			
Plus Deposits In Transit	\$0.00			
Less Outstanding Checks	(\$145,338.44)			
SF GENERAL LEDGER ENDING BALANCE:	\$405,992.27			
VARIANCE:	\$0.00			

December 2024

YTD Interest Prior YTD Interest

Restricted Funds - Money Market - MVB

Beg GL Balance:	\$455,325.61
Add Deposits:	\$0.00
Add Transfers:	\$0.00
Other:	\$0.00
Interest:	\$1,089.05
Ending GL BALANCE:	<u>\$456,414.66</u>
Ending Bank Balance:	\$456,414.66
Add (Less) Other:	\$0.00
Total:	\$456,414.66

Breakdown of Restricted Funds

HUR	289,942.00
Community Garden	4,025.00
EDC Website	17,200.00
EDC Feasibility	45,386.10
EDC Gateway Sign	18,000.00
EDC NRM Bathroom	75,000.00
Interest	<u>6,861.56</u>
Total	456,414.66

\$6,861.56 634.42

Payroll Account - MVB

Beg GL Balance:	(\$600.00)
Add Deposits:	\$107,381.94
Less Withdrawals:	(\$159,511.01)
Outstanding Checks	<u>\$0.00</u>
Ending GL BALANCE:	<u>(\$52,729.07)</u>
Ending Bank Balance:	\$0.00
(Less) Outstanding Checks:	(\$52,729.07)
Total:	(\$52,729.07)

December 31 Payroll hit but the sweeps from GF didn't occur until January 2

American Rescue Plan Act Funds - MVB

Beg GL Balance:	\$2,375,204.01
Add Deposits:	\$0.00
Add Transfers:	\$0.00
Less Withdrawals:	(\$24,637.29)
Interest	<u>\$7,065.86</u>
Ending GL BALANCE:	<u>\$2,357,632.58</u>
Ending Bank Balance:	\$2,357,632.58
(Less) Outstanding Checks:	\$0.00
Total:	\$2,357,632.58

WRA Reservoir Invoice

\$36,680.11 649.98

WF User Fees - Money Market - MVB

Beg GL Balance:	\$2,568,568.59
Add Deposits:	\$63,300.00
Add Transfers:	\$0.00
Other:	\$0.00
Interest	<u>\$3,149.91</u>
Ending GL BALANCE:	<u>\$2,635,018.50</u>
Ending Bank Balance:	\$2,635,018.50
Add (Less) Other:	\$0.00
Total:	\$2,635,018.50

Vanish Brewery Tap Fees

\$34,171.26 51.70

SF User Fees - Money Market - MVB

Beg GL Balance:	\$119,895.43
Add Deposits:	\$186,000.00
Add Transfers:	\$0.00
Less Withdrawals:	\$0.00
Interest	<u>\$332.00</u>
Ending GL BALANCE:	<u>\$306,227.43</u>
Ending Bank Balance:	\$306,227.43
Add (Less) Other:	\$0.00
Total:	\$306,227.43

Vanish Brewery Tap Fees

\$1,647.96 17.99



December 20, 2024

Mr. Andrew Bowen
Town Planner & Zoning Administrator
Town of Boonsboro
21 North Main Street
Boonsboro, Maryland 21713

Re: Proposal - Engineering Services for Comprehensive Plan Update

Dear Mr. Bowen:

Whitman, Requardt and Associates, LLP (WRA) is pleased to present our proposal for Engineering Services related to the update of the Town's Comprehensive Plan. Services will include Civil Engineering, including conversion and update of the Town's sewer system model.

A. Scope of Services

Upon Notice to Proceed, we will proceed with engineering support for the Town Comprehensive Plan development, as directed and as described below.

1. Model Conversion and Update

WRA has been requested to provide engineering services on an as-needed basis to assist the Town with development of the updated Comprehensive Plan. The Town's existing 2021 Wastewater Master Plan model was developed in InfoSewer which is no longer supported by the software developer. WRA services will include:

- a. Converting the existing model to SewerCAD and,
- b. Providing analysis of proposed growth in the King Road area, located to the southwest of Town.

The alternate redevelopment options will be developed and simulated in the updated model. Results will be provided in a technical memo. Up to two in-person meetings are included.

B. List of Drawings

N/A

C. Assumptions

1. Engineering designs are not included.
2. Permitting is not included.

D. Compensation

We will perform the Scope of Services on a time and materials basis. The estimated cost for the Scope of Services is included below. This fee will not be exceeded without your authorization.

Invoices will be rendered every four weeks for the actual services performed during the previous four-week period and are due within 30 days of receipt.

Scope Item	Cost
1. Model Conversion	\$ 8,624
2. Model Update and Analysis	\$ 16,648
Total	\$ 25,272

A detailed Manhour Estimate and Cost Breakdown by task is included as Attachment A.

E. Schedule

The proposal assumes that all work will be completed by March 2025 with Notice to Proceed on January 1, 2025; however, WRA will not be liable for delays beyond our reasonable control.

F. Terms and Conditions

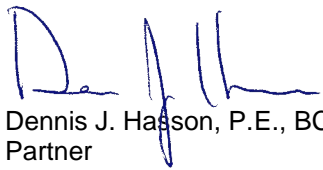
This work will be completed in accordance with our October 2018 Water System Contract as amended on September 27, 2021.

If this proposal is acceptable to you, please sign in the appropriate location below and return a copy for our files.

Thank you for the opportunity to present our Proposal. We look forward to working with you on this project.

Very truly yours,

Whitman, Requardt and Associates, LLP



Dennis J. Hasson, P.E., BCEE
Partner

Enclosures

cc: File
Francis Bonkowski, P.E.
P. Andrew Cooper, P.E., BCEE

APPROVAL:

Signature

Date





PROJECT NAME: TOWN OF BOONSBORO - COMPREHENSIVE PLAN TASKS											REVISION 0					
MANHOUR ESTIMATE AND PROPOSAL											DATE 12/18/2024					
CLIENT:											BY PAC/FJB					
TASK	PROJECT DESCRIPTION: Town of Boonsboro - Sewer Model Conversion and Update	Project Manager	Senior Civil Engineer	Civil Engineer / GIS Specialist	Civil Designer / CADD	Senior Mechanical Engineer	Mech. Engineer	Mech. Designer / CADD	Construction Specialist	WRA TOTAL HOURS	WRA TOTAL PAYROLL	WRA EXPENSES	Subcontractor hours	Subcontractor Payroll	Subcontractor Expenses	Line Item Totals
Phase A -	Engineering Planning Services										T, R, E	T, R, E				
Use Labor Cost Rates for year:		2024	\$80	\$70	\$55	\$35	\$63	\$53	\$38	\$60		S, or L (See Legend)	S, or L (See Legend)			
1.a	Model Conversion and Update	8	16	32						56	\$8,624	T \$0		\$	- \$	\$8,624
1.b	Model Update, Analysis and Summary Memo	12	24	48		8	16			108	\$16,248	T \$400		\$	- \$	\$16,648
										0	\$0	- \$		\$	- \$	\$0
										0	\$0	- \$		\$	- \$	\$0
										0	\$0	- \$		\$	- \$	\$0
PHASE A SUBTOTALS =		20	40	80	0	8	16	0	0	164	\$24,872	\$400	Subcontractor Total		\$0	\$25,272
PHASE A SUB-TOTAL DOLLARS =		\$3,920	\$6,860	\$10,780	\$0	\$1,235	\$2,078	\$0	\$0	\$24,872			Profit on Sub		0.0%	
			120	Civil	\$17,640	24	Mech.	\$3,312					WRA Total		\$25,272	
													PHASE A TOTAL		\$25,272	

		Project Manager	Senior Civil Engineer	Civil Engineer / GIS Specialist	Civil Designer / CADD	Senior Mechanical Engineer	Mech. Engineer	Mech. Designer / CADD	Construction Specialist
Bare Labor Cost rates for year	2023								
Contract Rates - LOADED LABOR AT A FACTOR OF:	2.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Bare Labor Cost rates for year	2024	\$80.00	\$70.00	\$55.00	\$35.00	\$63.00	\$53.00	\$38.00	\$60.00
Contract Rates - LOADED LABOR AT A FACTOR OF:	2.45	\$196.00	\$171.50	\$134.75	\$85.75	\$154.35	\$129.85	\$93.10	\$147.00
Bare Labor Cost rates for year	2025								
Contract Rates - LOADED LABOR AT A FACTOR OF:	2.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

WRA EXPENSES

- T = Travel
- R = Reproduction
- E = Equipment Rental
- S = Subcontractor
- L = Laboratory Cost

DEC 12/12/24

TOWN OF BOONSBORO

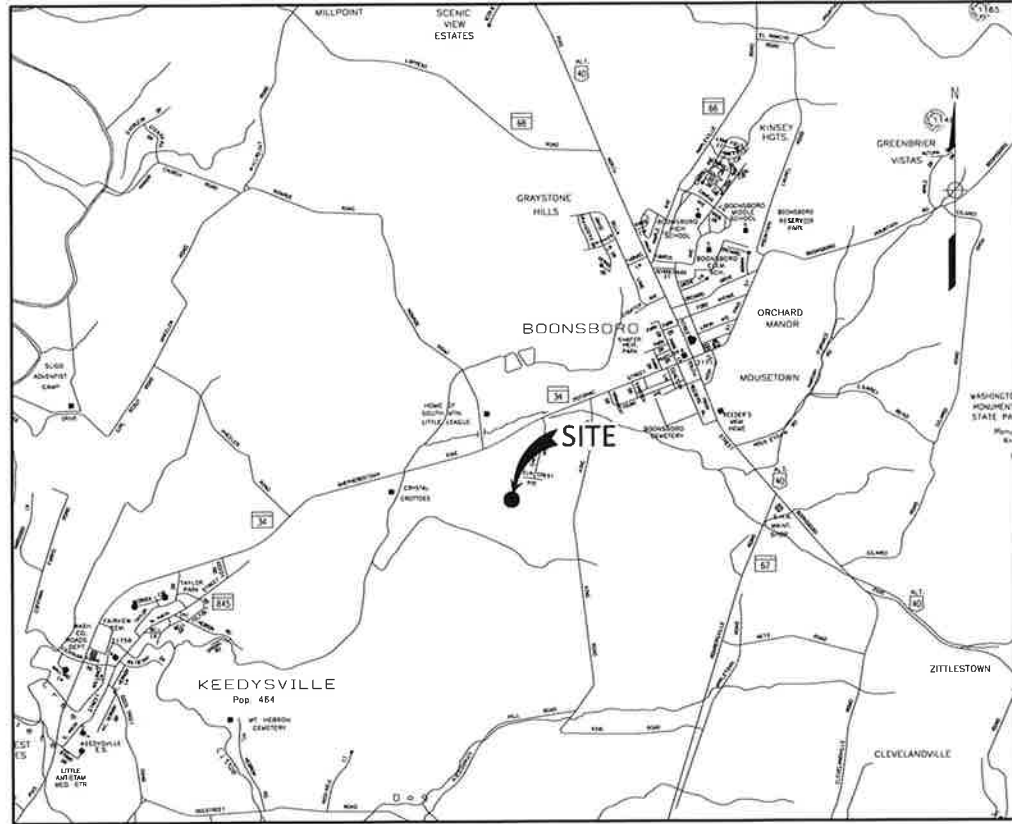
WASHINGTON COUNTY, MARYLAND

CRESTVIEW BYPASS 12-INCH WATER MAIN AND INSTALLATION OF TWO PRESSURE REDUCING VALVES

CONTRACT NO. ~~X-X~~ WM-1

DRAWING NO.	SHEET NO.	DESCRIPTION
GENERAL	G-1	TITLE SHEET, MAP KEY, LEGEND AND GENERAL NOTES
CIVIL	G-2	
	C-1	WATER MAIN PLANS AND PROFILE
	-2	
	-3	
	-4	
	-5	DETAILS (see WSSC details)
	SC-1	} COPY FROM BOONS RES 14421.006
	SC-2	

LIST OF DRAWINGS



LOCATION MAP
SCALE: 1" = 2000'

GENERAL NOTES

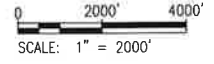
- ALL WATER AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE WASHINGTON COUNTY/TOWN OF BOONSBORO GENERAL CONDITIONS AND STANDARD SPECIFICATIONS AND DETAILS FOR WATER MAINS, SANITARY SEWER AND RELATED STRUCTURES.
- THE CONTRACTOR SHALL NOT OPERATE VALVES ON EXISTING TOWN OWNED WATER MAINS.
- THE CONTRACTOR SHALL NOT TAP OR PENETRATE EXISTING WATER AND/OR SEWER MAINS WITHOUT APPROVAL FROM THE TOWN OF BOONSBORO.
- EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE RECORDS. THE CONTRACTOR SHALL TEST PIT IN THE AREA OF KNOWN UTILITIES TO VERIFY SIZE, ELEVATION, LOCATION AND TYPE PRIOR TO PERFORMING ANY WORK. ANY UTILITY, WHETHER SHOWN OR NOT, THAT IS DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE OWNER IS TO BE NOTIFIED IMMEDIATELY. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT THE AUTHORIZATION OF THE OWNER, THEN THE CONTRACTOR ASSUMES THE RESPONSIBILITY FOR SAID CORRECTIONS OR ADJUSTMENTS.
- ANY NECESSARY ADJUSTMENTS TO EXISTING MANHOLES, VALVE BOXES, ETC., ARE TO BE DONE SO BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING ANY EXISTING FENCE, DRIVEWAYS, SIGNS, DRAINAGE PIPES, MAILBOXES, SHRUBS, TREES, ETC. DAMAGED OR REMOVED DURING CONSTRUCTION. ALL DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY (1-800-257-7777) 72 HOURS PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING SILT AND DEBRIS OUT OF THE STORM DRAINAGE SYSTEM FOR THE DURATION OF THE CONTRACT.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTY OWNERS AT ALL TIMES. THE CONTRACTOR, WITH OWNER APPROVAL, WILL COORDINATE WITH PROPERTY OWNERS IF ACCESS MUST BE INTERRUPTED FOR SHORT TIME PERIODS.
- THE FACILITY MUST BE DISINFECTED IN ACCORDANCE WITH THE LATEST VERSION OF AWWA C653.

COMAR NOTES

IN ACCORDANCE WITH CODE OF MARYLAND REGULATIONS (COMAR) 26.04.01.33, DIRECT AND INDIRECT ADDITIVES, SUPPLIERS OF WATER SHALL ONLY USE PRODUCTS (ANY MATERIALS THAT COME IN CONTACT WITH WATER INTENDED FOR USE IN PUBLIC WATER SUPPLY) THAT MEET THE APPLICABLE AMERICAN NATIONAL STANDARDS INSTITUTE/NSF INTERNATIONAL (ANSI / NSF) STANDARDS FOR DIRECT OR INDIRECT DRINKING WATER ADDITIVES. THE PRODUCTS CAN ALSO BE CERTIFIED BY AN ORGANIZATION HAVING A THIRD-PARTY CERTIFICATION PROGRAM ACCREDITED BY THE ANSI (E.G., UNDERWRITERS LABORATORY, NORTHBROOK IL; WATER QUALITY ASSOCIATION, LISLE IL; AND INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS RESEARCH AND TESTING, ONTARIO, CA; AND CSA INTERNATIONAL, TORONTO, ONT.).

IN ACCORDANCE WITH CODE OF MARYLAND REGULATIONS (COMAR) 09.20.01.03 AND THE SAFE DRINKING WATER ACT (SECTION 1417(A)(4)(B)), MATERIALS THAT COME IN CONTACT WITH WATER INTENDED FOR USE IN PUBLIC WATER SUPPLY SHALL COMPLY WITH THE REDUCTION OF LEAD IN DRINKING WATER ACT, WHICH WENT INTO EFFECT IN MARYLAND IN JANUARY 2012.

GRAPHIC SCALE



ENGINEER/ARCHITECT DESIGN CERTIFICATION		
I HEREBY CERTIFY THIS PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAS BEEN DESIGNED IN ACCORDANCE WITH LOCAL ORDINANCES, COMAR 26.17.01.07, AND MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.		
DATE	REG NO.	SIGNATURE
OWNER / DEVELOPER CERTIFICATION		
I/WE CERTIFY ALL/ANY PARTIES RESPONSIBLE FOR CLEARING, GRADING, CONSTRUCTION, AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SOIL EROSION AND SEDIMENT.		
DATE	PRINTED NAME	SIGNATURE

DISTURBED AREA QUANTITIES	
THE TOTAL AREA TO BE DISTURBED SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE APPROXIMATELY _____ ACRES AND THE TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO BE APPROXIMATELY _____ CUBIC YARDS OF EXCAVATION AND _____ CUBIC YARDS OF FILL.	

WASHINGTON COUNTY DIVISION OF ENGINEERING		
APPROVED BY:		
DATE:		
REVISION	DATE	DESCRIPTION

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 28792, EXPIRATION DATE: 06/10/2025



Whitman, Requardt & Associates, LLP
801 South Caroline Street, Baltimore, Maryland 21231
410-235-3450

TOWN OF BOONSBORO, MARYLAND		TOWN OF BOONSBORO, MARYLAND	
MAYOR	DATE	BMUC CHAIR	DATE
TOWN OF BOONSBORO, MARYLAND		TOWN OF BOONSBORO	
PLANNING CHAIR	DATE	21 NORTH MAIN STREET BOONSBORO, MD 21713 301-432-5141	TAX ID: 05-02320 ZONING: RT, DEED REF: 281/607 MAP: 006B, GRID: 0024, PARCEL: 0111 ELECTION DISTRICT: 6

CRESTVIEW BYPASS
12-INCH WATER
CONTRACT NO. ~~X-X~~

TITLE SHEET, MAP KEY,
LEGEND AND GENERAL NOTES

DRAWING NO. 1 OF XX	SHEET G-1
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DEC

LEGEND

	EXISTING	NEW
WATER LINE	— W —	— 8" W —
SEWER LINE	— S —	
DRAIN LINE	— D —	
DRAIN INLET		
GAS LINE	— G —	
UG TELEPHONE	— T —	
FIRE HYDRANT		
WATER VALVE		
WATER METER		
SEWER MAN-HOLE		
CLEANOUT		
GAS VALVE		
UTILITY POLE		
GUY WIRE ANCHOR		
AIR RELEASE VALVE		
PROPERTY LINE	— — —	
ROAD CENTERLINE	— x —	
FENCE LINE	— x —	
SIGN		
MAILBOX		
SURVEY POINT		
SHRUB		
TREE		
ABANDON		
ABANDON IN PLACE TO BE REMOVED		
DEMO STRUCTURE		
LIMIT OF DISTURBANCE	— L O O —	
BUILDING		
STAIRS		
OVERHEAD ELECTRIC	— OHE —	
SUPER SILT FENCE	— SSF —	
CONCRETE		

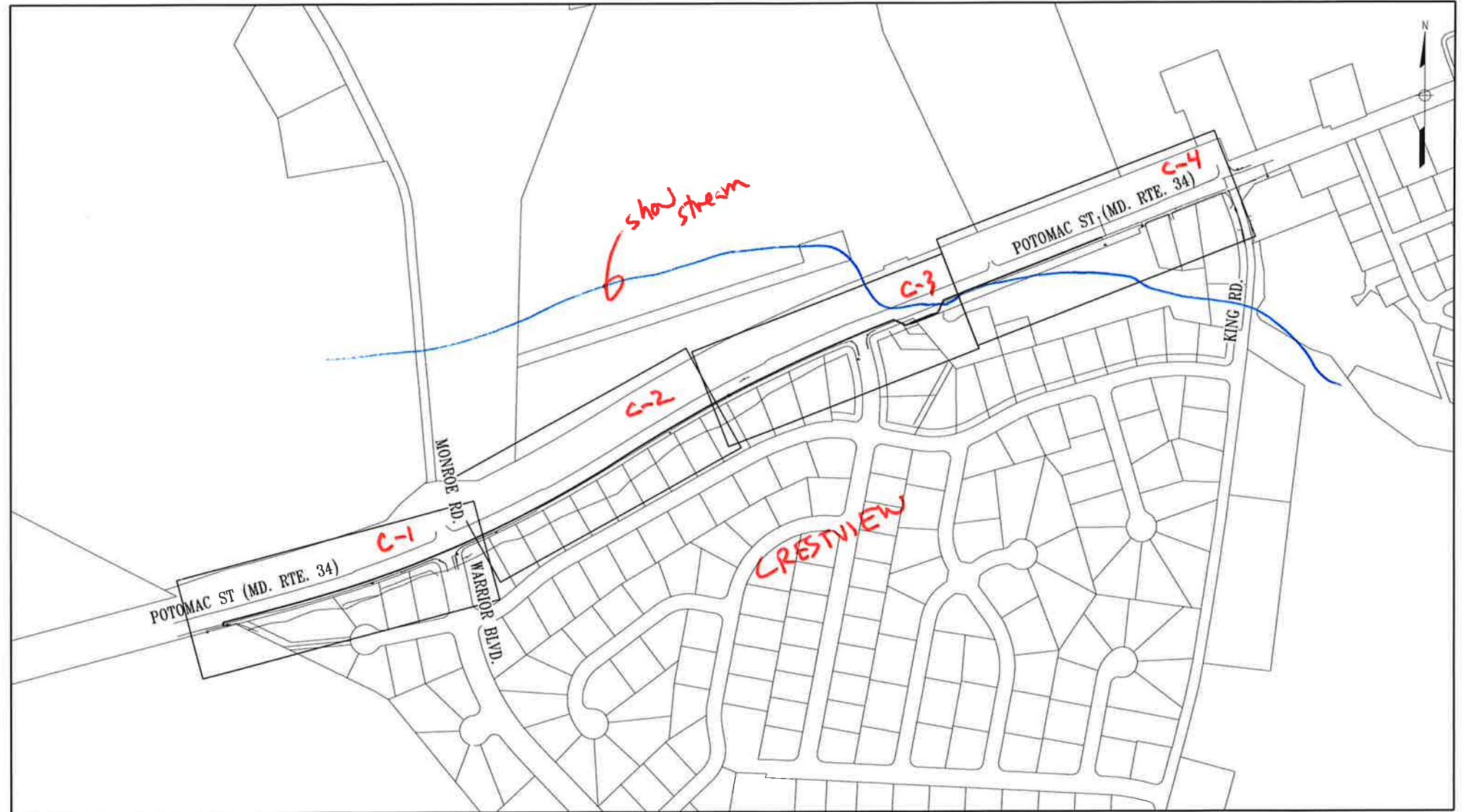
ABBREVIATIONS

CL	CENTERLINE
CM	CORRUGATED METAL PIPE
CT	COURT
DIP	DUCTILE IRON PIPE
EL.	ELEVATION
EX.	EXISTING
F	FOLIO
HB	HORIZONTAL BEND
HORIZ.	HORIZONTAL
INV.	INVERT
L	LIBER
MAX.	MAXIMUM
MG	MILLION GALLON
MIN.	MINIMUM
N	NORTH
N/F	NOW OR FORMERLY
OD	OUTSIDE DIAMETER
P	PROPERTY LINE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
S	SEWER, SOUTH
SCE	STABILIZED CONSTRUCTION ENTRANCE
ST	STREET, SAINT
TP	TRAVERSE POINT
TYP.	TYPICAL
UG	UNDERGROUND
VERT.	VERTICAL
W	WATER, WEST

SURVEY DATA

do we have this?

TOPO SURVEYS PERFORMED BY CLSI IN MARCH, 2024.



KEY SHEET PLAN

SCALE: 1" = 200'

PROFESSIONAL CERTIFICATION
 "I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND," LICENSE NO. 28792, EXPIRATION DATE: 06/10/2025



Whitman, Requardt & Associates, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 410-235-3459

TOWN OF BOONSBORO, MARYLAND		TOWN OF BOONSBORO, MARYLAND	
MAYOR	DATE	BMUC CHAIR	DATE
TOWN OF BOONSBORO, MARYLAND		TOWN OF BOONSBORO, MARYLAND	
PLANNING CHAIR	DATE	21 NORTH MAIN STREET BOONSBORO, MD 21713 301-432-5141	TAX ID: 06-023320 ZONING: RT, DEED REF: 281/607 MAP: 008B, GRID: 0024, PARCEL: 0111 ELECTION DISTRICT: 6

**CRESTVIEW BYPASS
 12-INCH WATER**
 CONTRACT NO. X-X

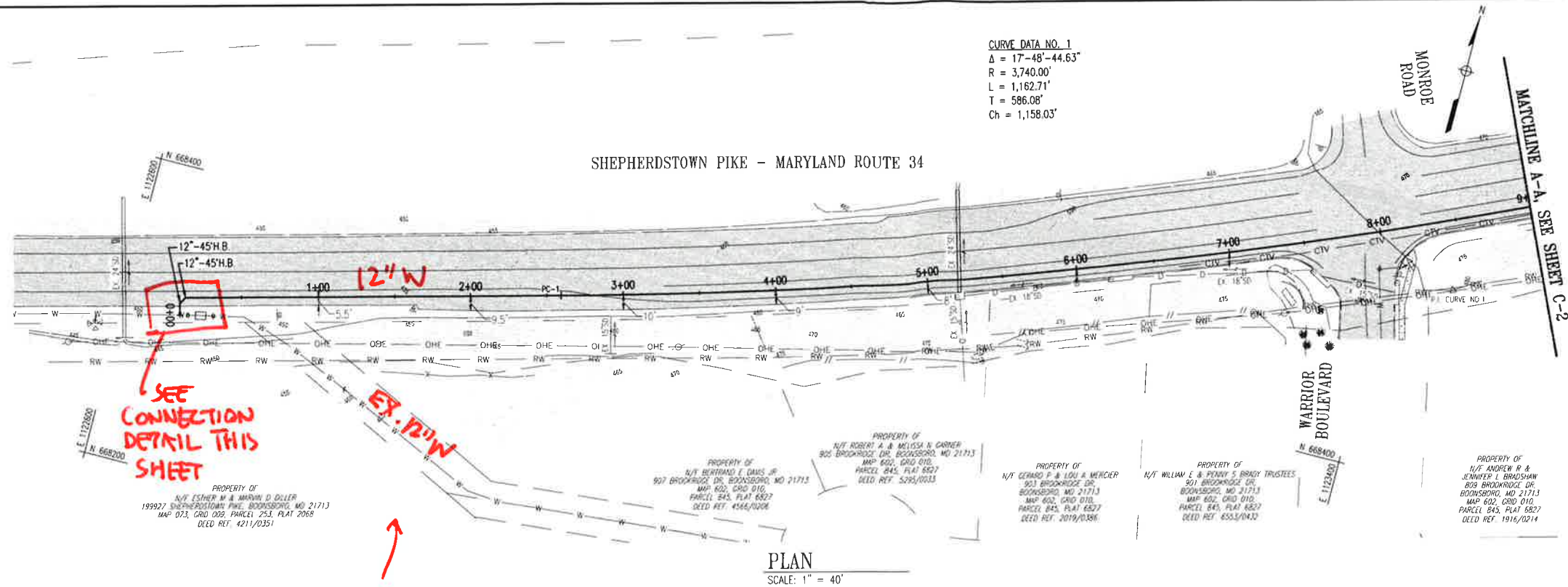
**LEGEND, ABBREVIATIONS,
 SURVEY DATA AND KEY SHEET PLAN**

WASHINGTON COUNTY DIVISION OF ENGINEERING

APPROVED BY: _____
 DATE: _____

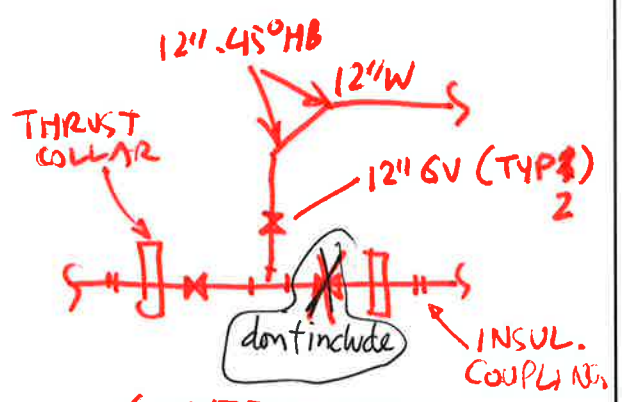
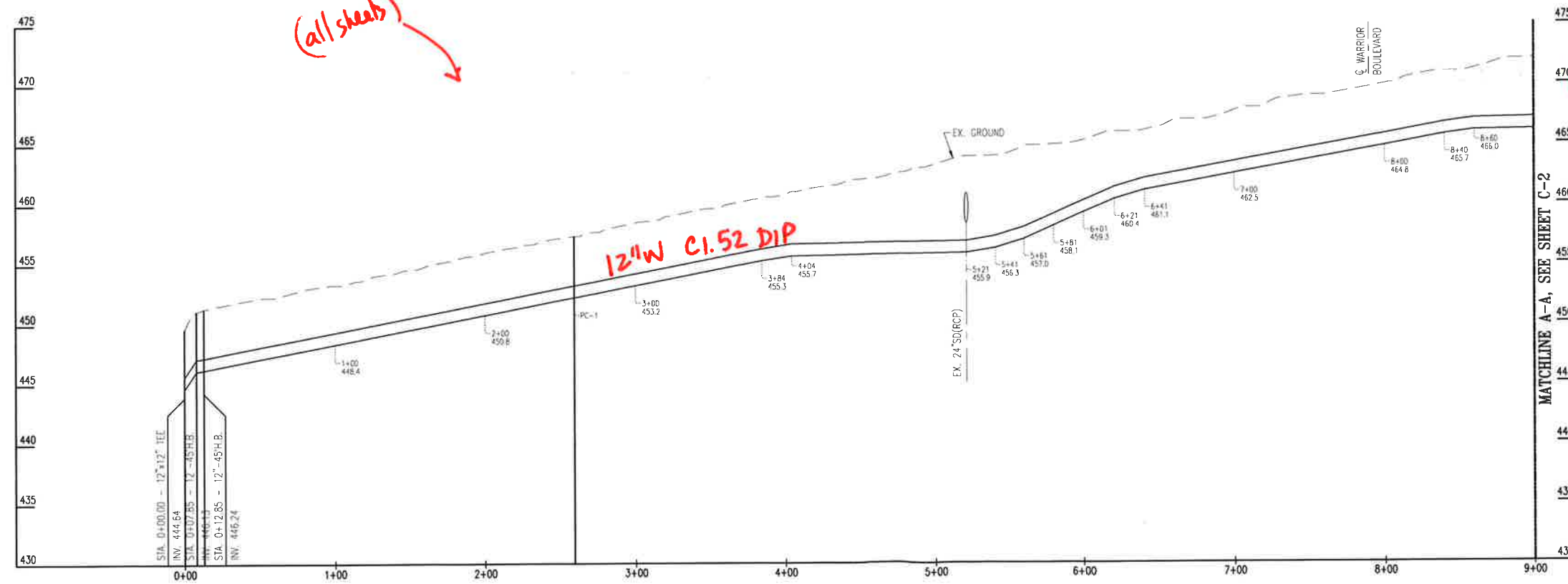
REVISION	DATE	DESCRIPTION

DRAWING NO. 2 OF XX SHEET G-2

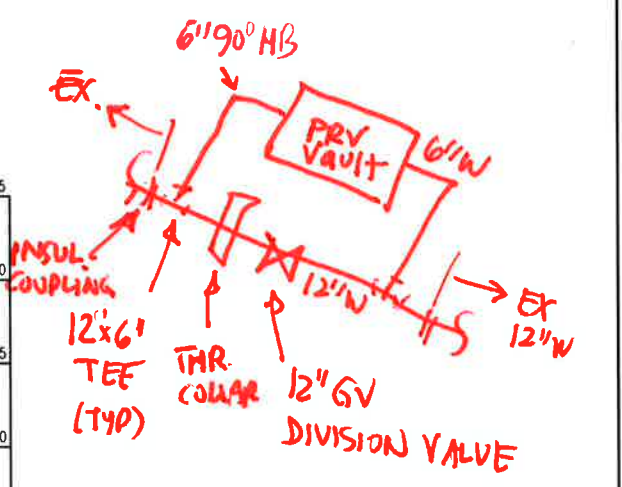


CURVE DATA NO. 1
 $\Delta = 17-48-44.63'$
 $R = 3,740.00'$
 $L = 1,162.71'$
 $T = 586.08'$
 $Ch = 1,158.03'$

PLAN
 SCALE: 1" = 40'



CONNECTION DETAIL
 - RESTRAIN ALL JOINTS
 - CONNECT TO EX. DIP WITH INSULATING COUPLING.



PRV VAULT DETAIL
 - RESTRAIN ALL NEW PIPE
 - CONNECT TO EX. DIP w/ INSUL. COUPLING.

SEE CONNECTION DETAIL THIS SHEET

(all sheets)

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 28792, EXPIRATION DATE: 06/10/2025

WRA
 Whitman, Reardon & Associates, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 410 235-3450

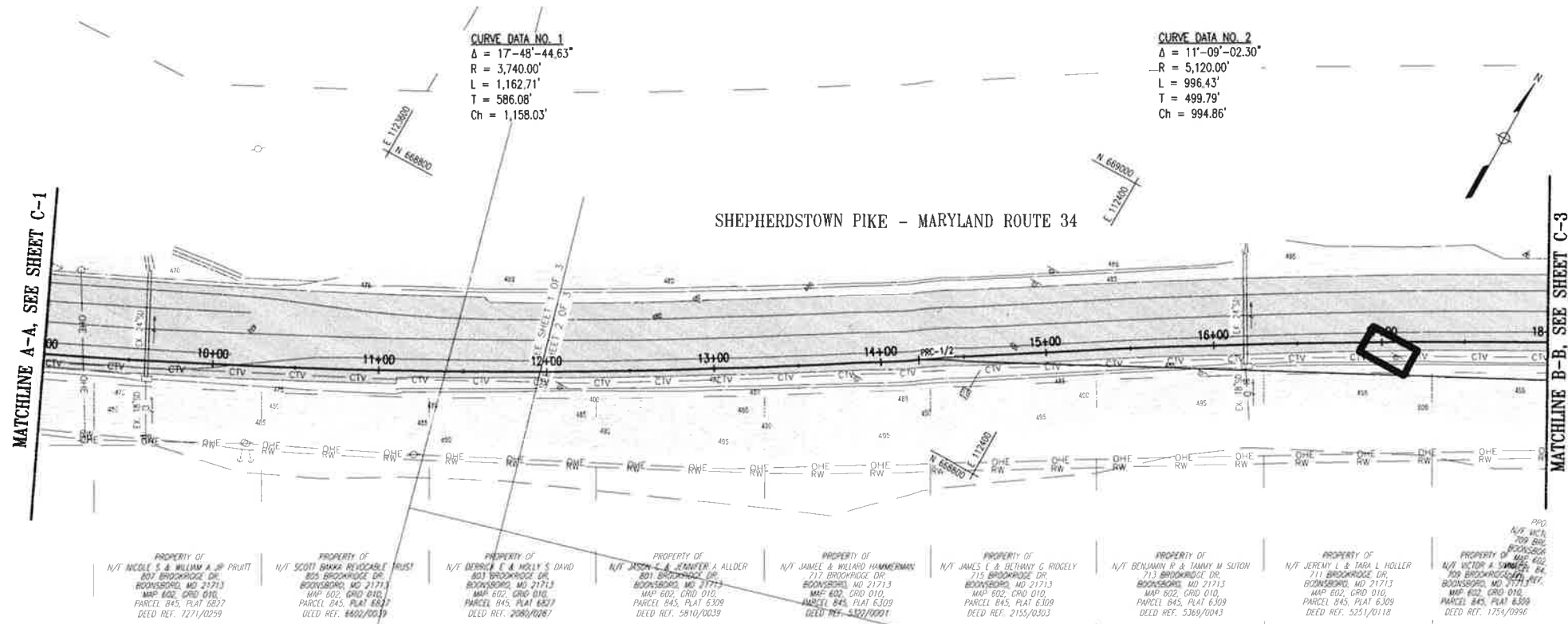
TOWN OF BOONSBORO, MARYLAND		TOWN OF BOONSBORO, MARYLAND	
MAYOR	DATE	BMUC CHAIR	DATE
TOWN OF BOONSBORO, MARYLAND		TOWN OF BOONSBORO, MARYLAND	
PLANNING CHAIR	DATE	TOWN OF BOONSBORO	DATE
		21 NORTH MAIN STREET BOONSBORO, MD 21713 301-432-5141	

TAX ID: 05-023320
 ZONING: RT, DEED REF: 281/607
 MAP: 006B, GRID: 0024,
 PARCEL: 0111
 ELECTION DISTRICT: 6

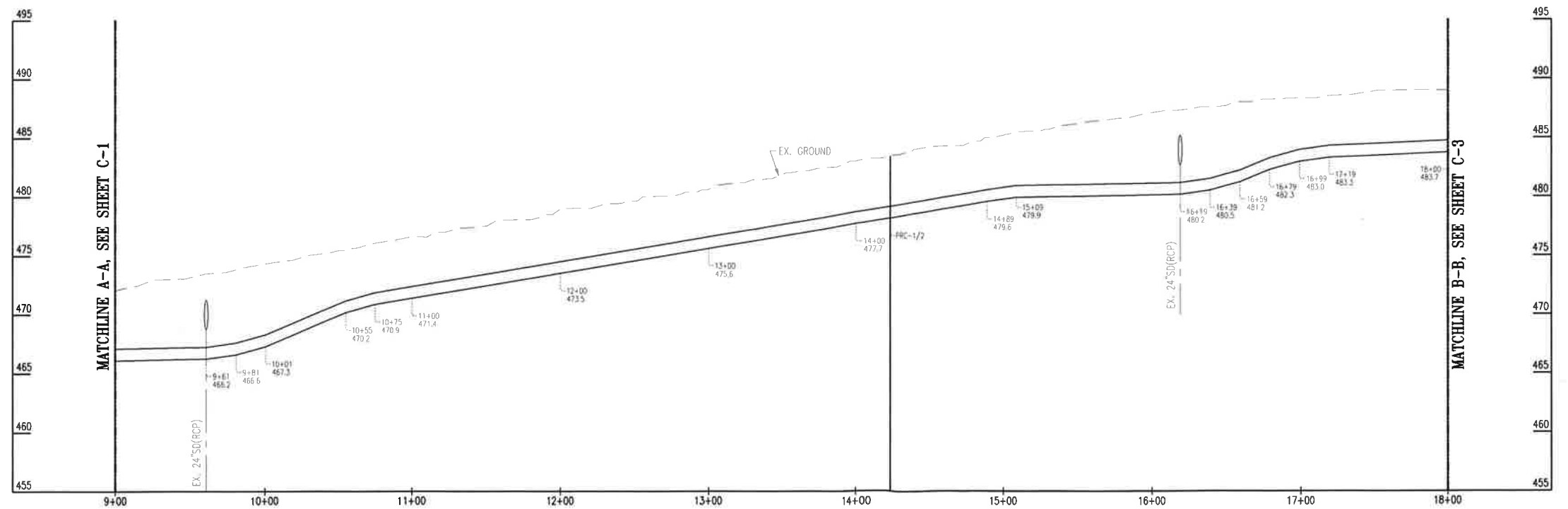
CRESTVIEW BYPASS
 12-INCH WATER
 CONTRACT NO. X-X

WATER MAIN
 PLAN AND PROFILE

WASHINGTON COUNTY DIVISION OF ENGINEERING			
APPROVED BY: _____			
DATE: _____			
REVISION	DATE	DESCRIPTION	
		DRAWING NO. 3 OF XX	SHEET C-1



PLAN
 SCALE: 1" = 40'



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 28792, EXPIRATION DATE: 06/10/2025



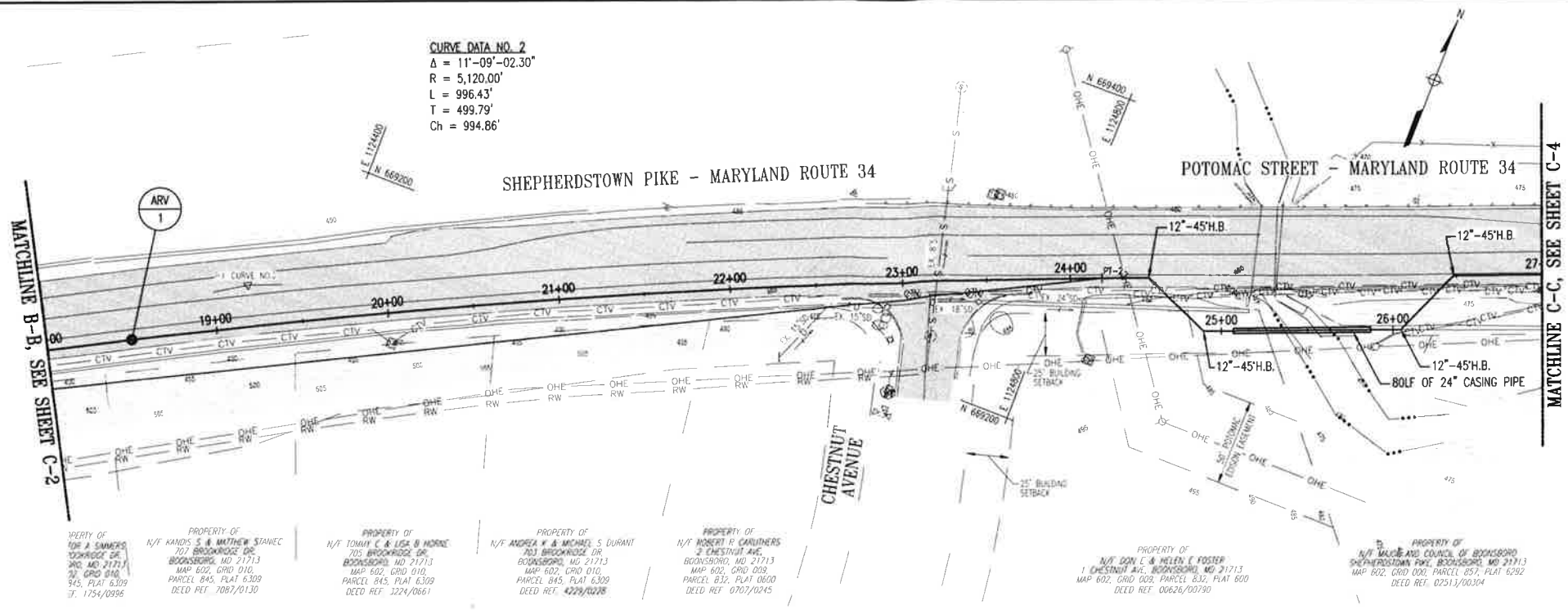
TOWN OF BOONSBORO, MARYLAND		TOWN OF BOONSBORO, MARYLAND	
MAYOR	DATE	BMUC CHAIR	DATE
TOWN OF BOONSBORO, MARYLAND		TOWN OF BOONSBORO, MARYLAND	
PLANNING CHAIR	DATE	21 NORTH MAIN STREET BOONSBORO, MD 21713 301-432-5141	TAX ID: 06-023320 ZONING: RT, DEED REF: 281/507 MAP: 005B, ORD: 0024, PARCEL: 0111 ELECTION DISTRICT: 6

CRESTVIEW BYPASS
 12-INCH WATER
 CONTRACT NO. X-X

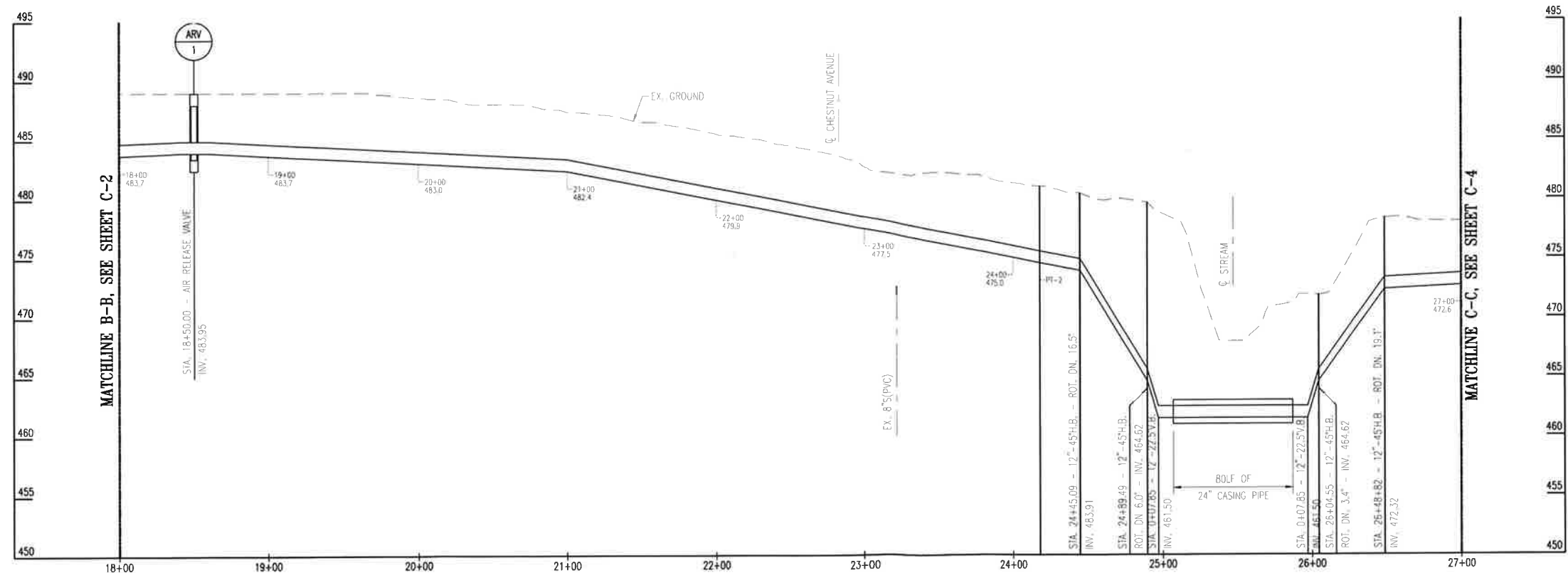
WATER MAIN
 PLAN AND PROFILE

WASHINGTON COUNTY DIVISION OF ENGINEERING			
APPROVED BY: _____			
DATE: _____			
REVISION	DATE	DESCRIPTION	
DRAWING NO. 4 OF XX			SHEET C-2

CURVE DATA NO. 2
 $\Delta = 11^{\circ}09'02.30''$
 $R = 5,120.00'$
 $L = 996.43'$
 $T = 499.79'$
 $Ch = 994.86'$



PLAN
 SCALE: 1" = 40'



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE
 PREPARED OR APPROVED BY ME, AND THAT I AM A DULY
 LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF
 THE STATE OF MARYLAND, LICENSE NO. 28792,
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 410-335-3650

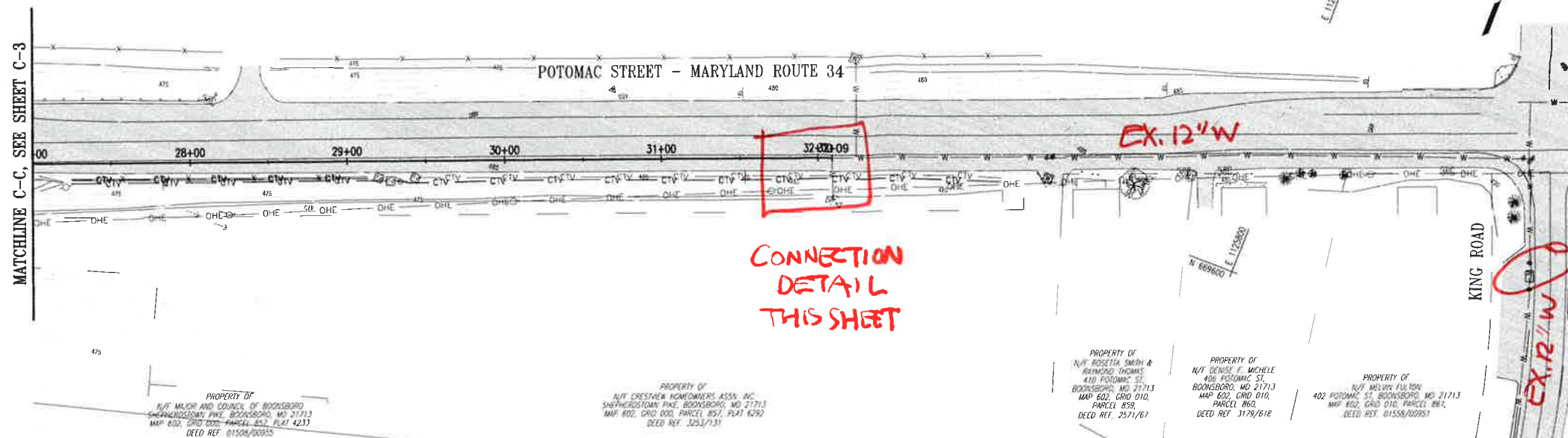
TOWN OF BOONSBORO, MARYLAND		TOWN OF BOONSBORO, MARYLAND	
MAYOR	DATE	BMUC CHAIR	DATE
TOWN OF BOONSBORO, MARYLAND		TOWN OF BOONSBORO	
PLANNING CHAIR	DATE	21 NORTH MAIN STREET BOONSBORO, MD 21713 301-432-5141	TAX ID: 06-023320 ZONING: RT, DEED REF: 281/607 MAP: 0068, GRD: 0024, PARCEL: 0111 ELECTION DISTRICT: 6

CRESTVIEW BYPASS
12-INCH WATER
 CONTRACT NO. X-X

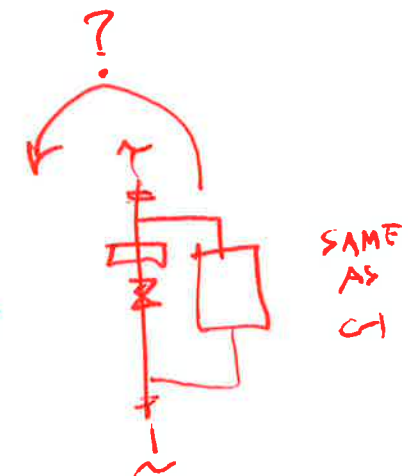
WATER MAIN
PLAN AND PROFILE

WASHINGTON COUNTY DIVISION OF ENGINEERING		
APPROVED BY:	_____	
DATE:	_____	
REVISION	DATE	DESCRIPTION

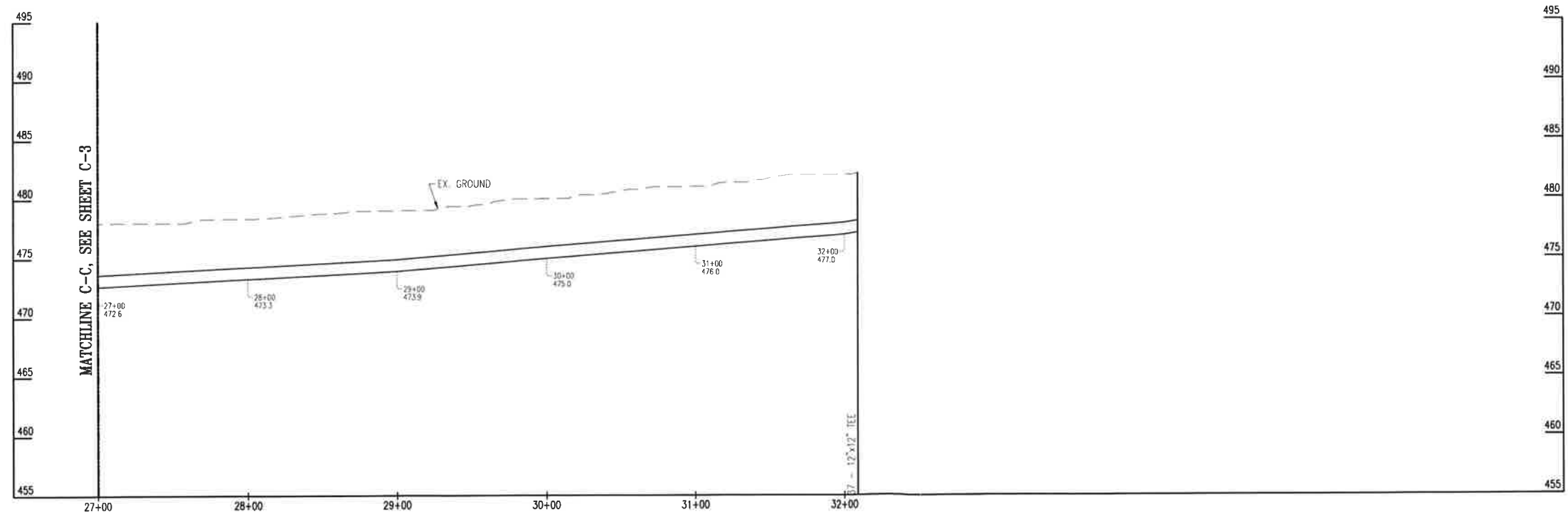
DRAWING NO. 5 OF XX SHEET C-3



CONNECTION
DETAIL
THIS SHEET



PLAN
SCALE: 1" = 40'



PROFESSIONAL CERTIFICATION
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LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF
THE STATE OF MARYLAND, LICENSE NO. 28792,
EXPIRATION DATE: 06/10/2025

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410-235-3450

TOWN OF BOONSBORO, MARYLAND		TOWN OF BOONSBORO, MARYLAND	
MAYOR	DATE	BMUC CHAIR	DATE
TOWN OF BOONSBORO, MARYLAND		TOWN OF BOONSBORO	
PLANNING CHAIR	DATE	21 NORTH MAIN STREET BOONSBORO, MD 21713 301-432-5141	TAX ID: 06-023320 ZONING: RT, DEED REF: 281/607 MAP: 006B, GRD: 002A, PARCEL: 0111 ELECTION DISTRICT: 6

CRESTVIEW BYPASS
12-INCH WATER
CONTRACT NO. X-X

WATER MAIN
PLAN AND PROFILE

WASHINGTON COUNTY DIVISION OF ENGINEERING		
APPROVED BY:	_____	
DATE:	_____	
REVISION	DATE	DESCRIPTION

DRAWING
NO. 6
OF XX
SHEET
C-4