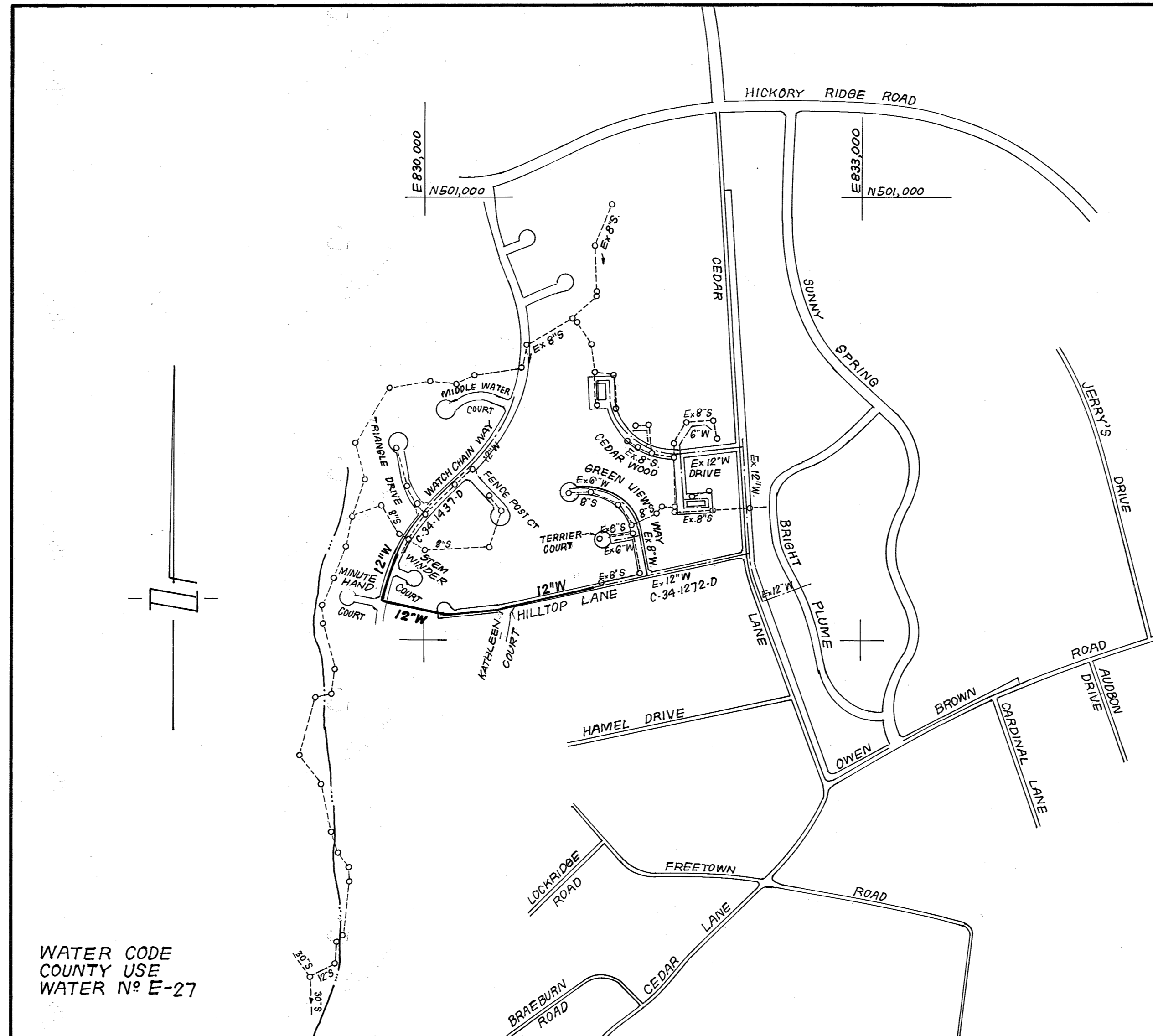


**SEQUENCE OF CONSTRUCTION**

1. Obtain grading permit. \_\_\_\_\_ 2 days
2. Clear and grub area and install sediment erosion control devices. \_\_\_\_\_ 1 day
3. Excavate and install 12" Watermain. \_\_\_\_\_ 3 days
4. Backfill trench and stabilize in accordance with standard details and specifications. \_\_\_\_\_ 14 days
5. Remove sediment and erosion control devices and stabilize upon approval of S&E Control inspector. \_\_\_\_\_ 7 days



WATER CODE  
COUNTY USE  
WATER N<sup>o</sup> E-27

**VICINITY MAP**

**CONTRACT NO. 44-1480-D**

**CEDAR ACRES, SECTION FOUR  
WATER EXTENSION FROM HILL TOP LANE TO  
WATCH CHAIN WAY, LOOP FOR 550 WATER ZONE  
HOWARD COUNTY, MARYLAND**

**DEPARTMENT OF PUBLIC WORKS**

Sediment Control Measures will be implemented in accordance with Article No. 15 of the Specifications & with Road Construction Plan F; Drawing \_\_\_\_\_, Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

*J. Helms* 6-9-86  
SIGNATURE DATE

U.S. SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

APPROVED:  
*Stephen R. Hawk* 6/7/86  
Howard S.C.D. DATE

**GENERAL NOTES**

1. Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the Inspector, at the contractor's expense.
2. All horizontal controls are based on Maryland State Coordinates.
3. All vertical controls are based on U.S.G.S. Datum.
4. All pipe elevations shown are invert elevations.
5. Clear all utilities by a minimum of 6" clear all poles by 2'-0" minimum or tunnel as required. Any cost incurred to the contractor for tunneling or bracing at poles shall be included in unit prices bid for excavation and backfill.
6. For details not shown on the drawings use Howard County Standard Specifications & Ho. Co. Design Manual, Volume II. The Contractor shall have a copy of Volume II on the job.
7. Contractor shall locate existing utilities a minimum of two (2) weeks in advance of construction operations in the vicinity of proposed utilities at his own expense.
8. Contractor shall notify the following utilities or agencies at least five (5) working days before starting work shown on these plans.  
State Highway Administration - 531-5533  
Baltimore Gas & Electric Company - Contractor Services 561-2585.  
Baltimore Gas & Electric Company - Underground Damage Control 234-5621.  
Baltimore Gas & Electric Company Trouble Shooting - 298-9013.  
"Miss Utility" - 1-559-0100  
Chesapeake & Potomac (C & P) Telephone Company - 725-9976  
Colonial Pipeline Company - 795-1390  
Bureau of Utilities Howard County - 992-2366
9. Trees are to be protected from damage to maximum extent. Trees located within the construction strip are not to be removed or damaged by the contractor.
10. Contractor shall remove trees, stumps, and roots along line of excavation as directed by the Inspector. Payment for such removal shall be included in the unit price bid for excavation and backfill.
11. Place regulation "Men Working" and warning signs as required to comply with Maryland State Highway Administration Manual of Traffic Control for Highway Construction and Maintenance Operations.
12. All water mains to be \_\_\_\_\_ or D.I.P. unless otherwise noted.
13. Top of all water mains to have a minimum of 3-1/2' cover unless otherwise noted.
14. Valves adjacent to tees shall be strapped to tees.
15. Block all fittings with concrete.
16. Bury line elevations on fire hydrants shall be set to the elevations shown on the drawings. All fire hydrants shall be strapped and buttressed with concrete in accordance with standard details. Soil around the fire hydrant to be compacted in accordance with Sections 1003 & 1008 of the Standard Specifications.
17. All water house connections shall be for an inside meter setting.
18. The contractor shall not operate any water main valves on the existing system.
19. All sewer mains shall be C.S.P.X., V.C.P.X., P.V.C., or A.C.P. Class 2400 unless otherwise noted.
20. The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
21. All manholes shall be 4'-0" inside diameter, unless otherwise noted.
22. Water main and water house connection lines must have a minimum of one foot separation from the sanitary sewer and sewer house connections as they cross. Except at crossings, water and sewer lines shall have a minimum horizontal separation of 10'.
23. For all Copper Water House Connections, utilize flared type fittings only.

QUANTITIES			
ITEM	EST'D	AS BUILT	MATERIAL / SUPPLIER
12" W	1,484 LF	1484 LF	ATLANTIC PIPE
3/4" WHC	72 LF	172 LF	HALSTED METALS
1" WHC	95 LF	105 LF	HALSTED METALS
12" V	2 EA	2 EA	M&H VALVE
1" ARV IN MH.	1 EA	1 EA	GA INDUSTRIES
1 1/2" WHC		42 LF	HALSTED METALS

**AS-BUILT**

By *[Signature]* Date 2/11/20

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*George Newman* 6-11-86  
DIRECTOR OF PUBLIC WORKS DATE

*William B. Berman* 6-10-86  
CHIEF, BUREAU OF UTILITIES DATE

*William B. Berman* 6-12-86  
CHIEF, BUREAU OF ENGINEERING DATE

*William B. Berman* 6-12-86  
CHIEF, LAND DEVELOPMENT DIV. DATE

**CFE** CLARK • FINEPROCK & SACKETT  
ENGINEERS • PLANNERS • SURVEYORS

11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904  
(301) 593-3400



DES:	VLM	1	Revised Street names on vicinity map	2-3-87
DRN:			ADO AS-BUILT INFO (SHEET 2 OF 3)	2/11/20
CHK:				
DATE:	BY	NO.	REVISION	DATE

VICINITY MAP AND GENERAL NOTES

600' SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

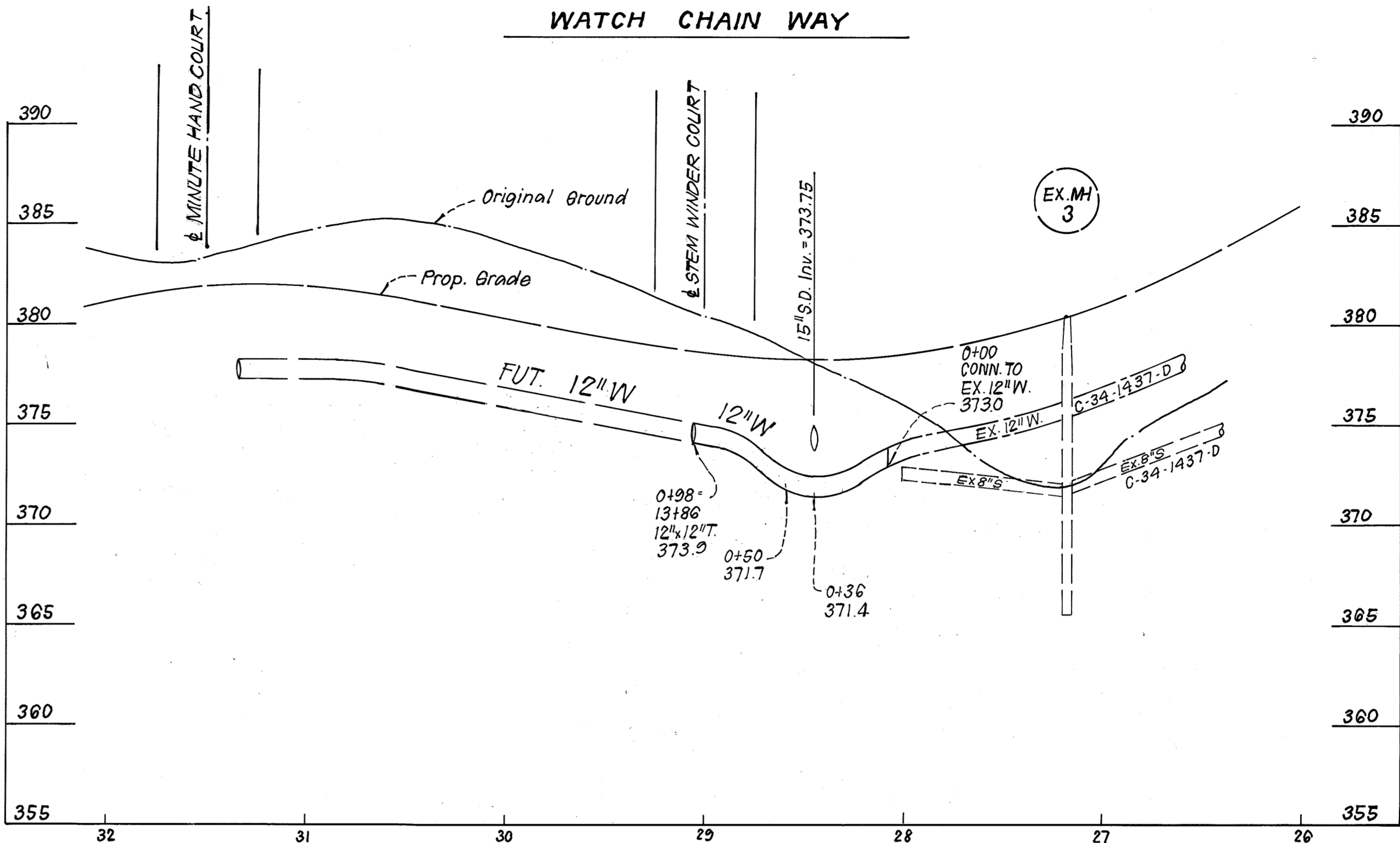
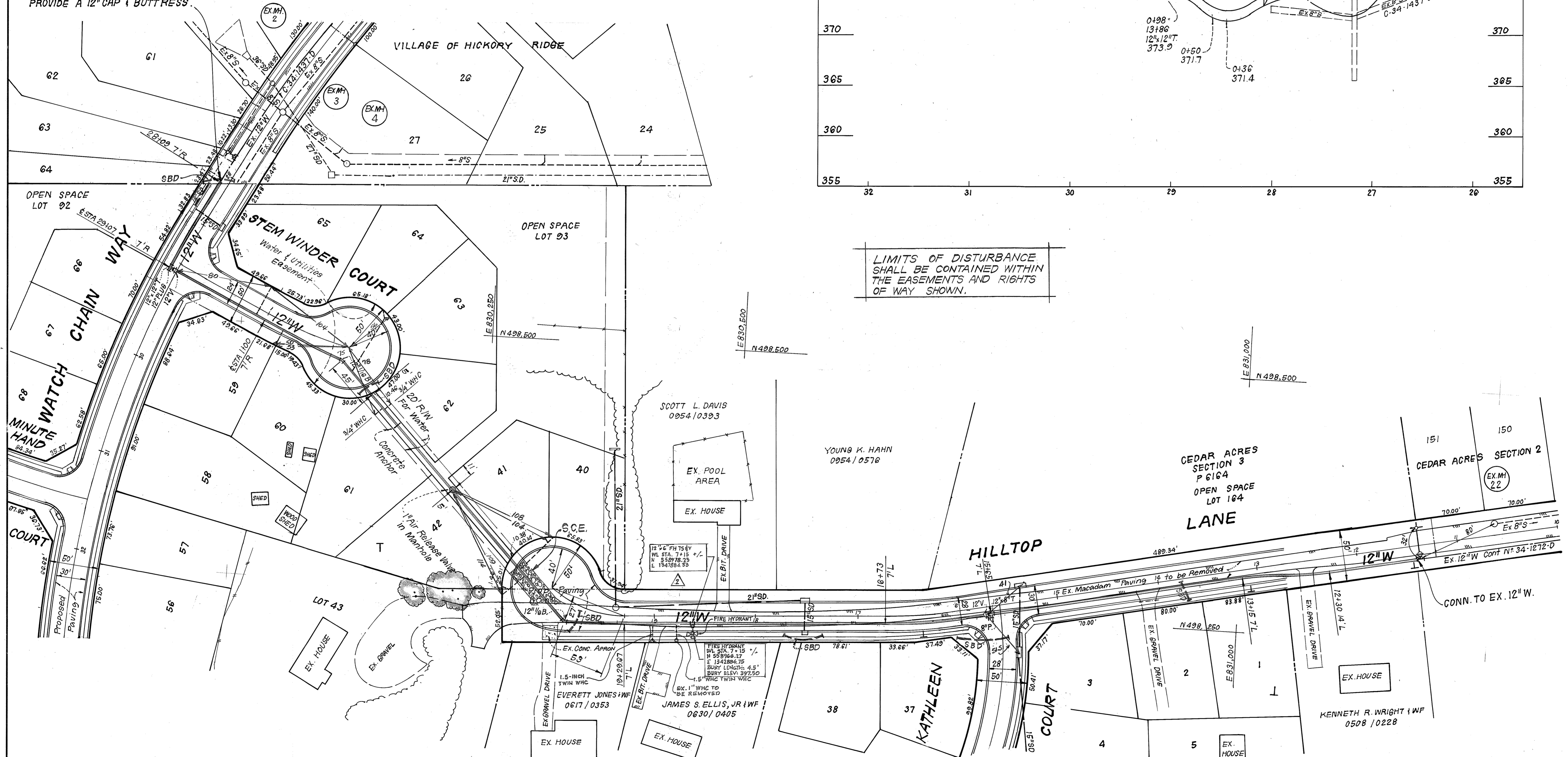
CEDAR ACRES, SECTION FOUR  
WATER EXTENSION FROM HILL TOP LANE TO  
WATCH CHAIN WAY, LOOP FOR 550 WATER ZONE  
ELECTION DISTRICT NO. 5  
CONTRACT NO. 44-1480 D

SCALE 1"=600'  
SHEET 1 OF 3

As Built for Hilltop Landing II		
		Distance (L.F.)
Fire Hydrant	Fire Hydrant to Water Meter Vault I	15.7
	Fire Hydrant to Water Valve	9.0
Water Valve	Water Valve to Fire Hydrant	9.0
	Water Valve to Water Meter Vault I	20.3
Water Meter Vault I	Water Meter Vault I to Fire Hydrant	15.7
	Water Meter Vault I to Water Valve	20.3
Water Meter Vault II	Water Meter Vault II to Water Meter Vault I	28.9
	Water Meter Vault II to Fire Hydrant	39.2

PLAN SCALE 1"=50'

IF THE 12" W. IS EXISTING, REMOVE THE CAP & CONNECT, OTHERWISE PROVIDE A 12" CAP & BUTTRESS.



PROFILE SCALE  
HOR. : 1"=50'  
VERT. : 1"=5'

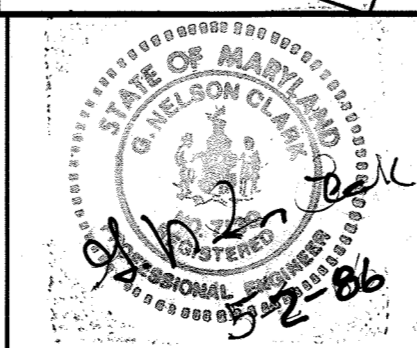
LIMITS OF DISTURBANCE SHALL BE CONTAINED WITHIN THE EASEMENTS AND RIGHTS OF WAY SHOWN.

AS-BUILT  
By [Signature] Date 2/11/20

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

Director of Public Works: [Signature] 6-11-16  
Chief, Bureau of Engineering: [Signature] [Date]  
Chief, Bureau of Utilities: [Signature] 6-10-86  
Chief, Land Development Div.: [Signature] [Date]

CLARK - FINEPROCK & SACKETT  
ENGINEERS - PLANNERS - SURVEYORS  
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904  
(301) 593-3400



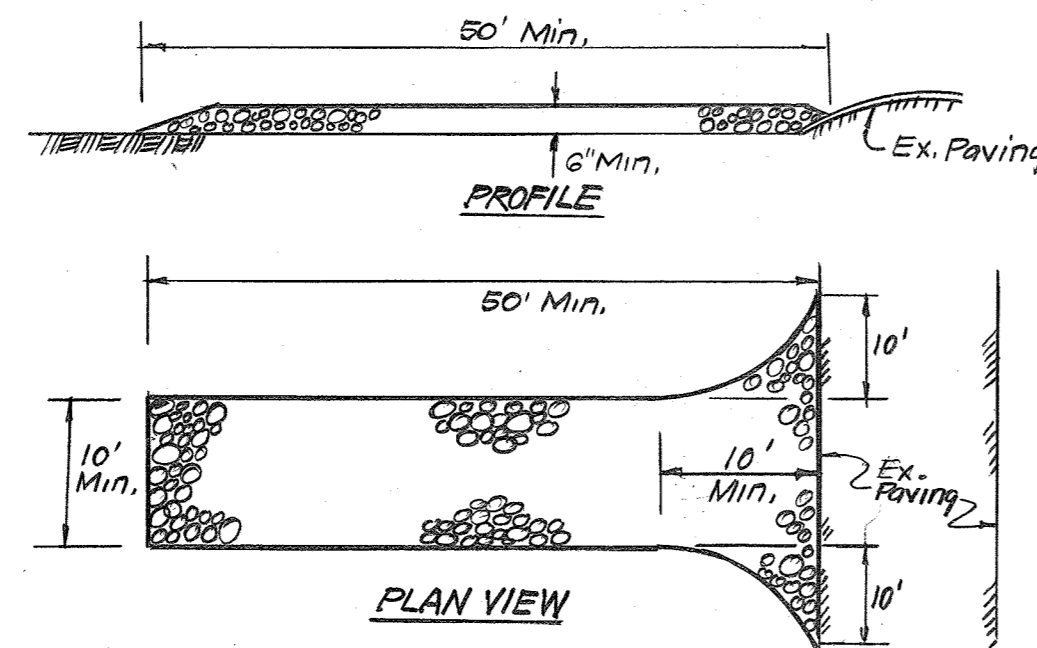
DES:	VLM /	Revised street names	2-3-87
DRN:	A	A.D.O. EXHIBIT #2 PUBLIC FIRE HYDRANT	8-7-20
CHK:			
DATE:	BY NO.	REVISION	DATE

PLAN & PROFILES OF  
WATER MAINS

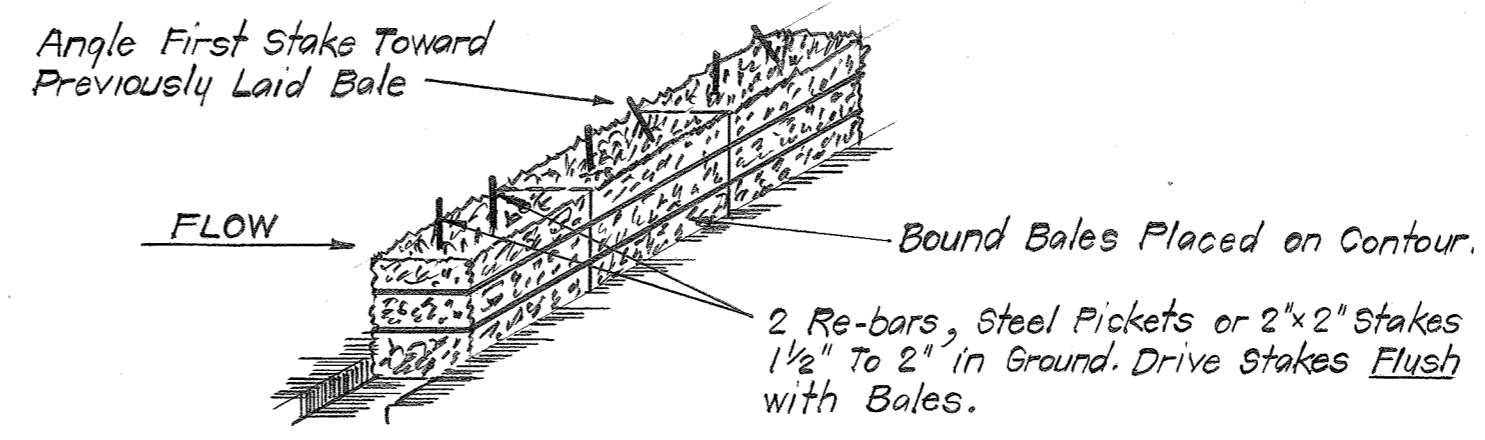
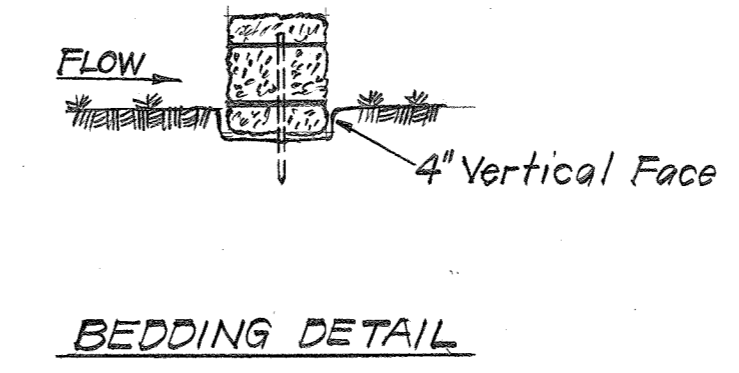
600' SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

CEDAR ACRES, SECTION FOUR  
WATER EXTENSION FROM HILL TOP LANE TO  
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ELECTION DISTRICT NO. 5  
CONTRACT NO. 44-1480 D

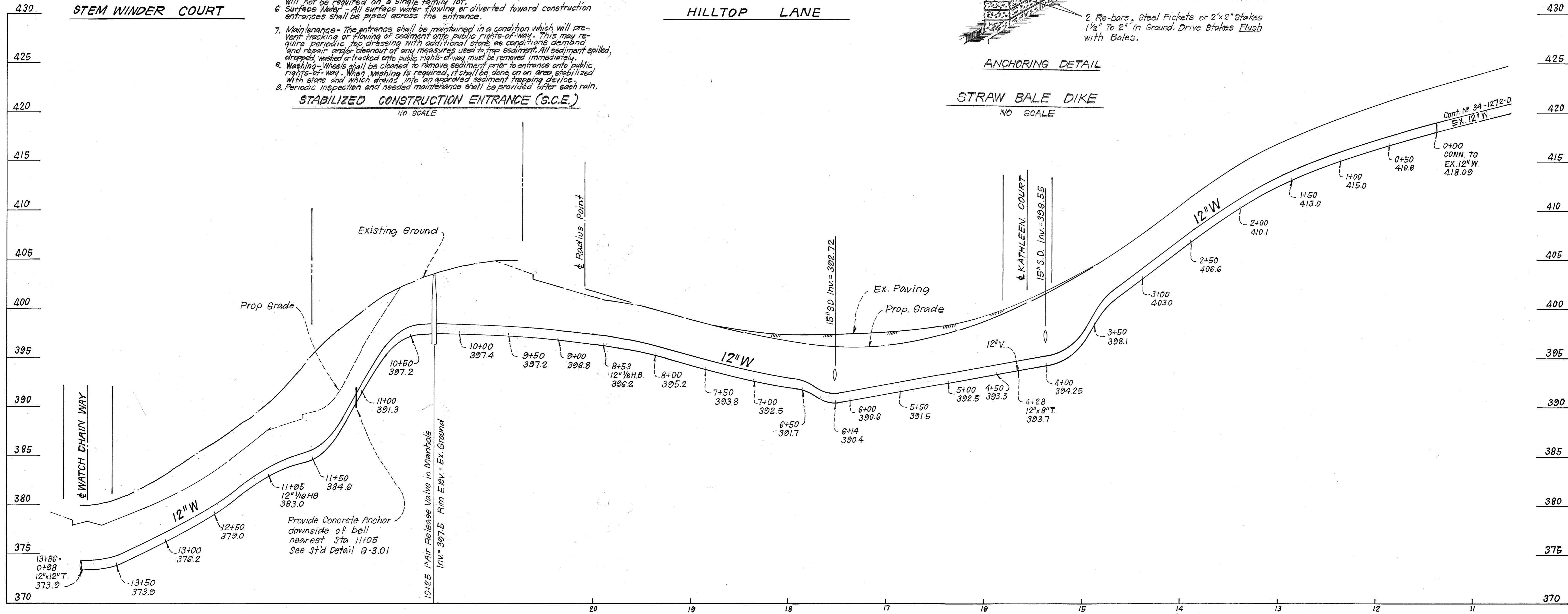
SCALE AS SHOWN  
SHEET 2 OF 3



- CONSTRUCTION SPECIFICATIONS:**
1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
  2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 min. length would apply.)
  3. Thickness - Not less than 6".
  4. Width - Ten foot min., but not less than the full width at point where ingress of egress occur.
  5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family lot.
  6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance.
  7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone, as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
  8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
  9. Periodic inspection and needed maintenance shall be provided after each rain.
- STABILIZED CONSTRUCTION ENTRANCE (S.C.E.)**  
NO SCALE



**STRAW BALE DIKE**  
NO SCALE



**AS-BUILT**

By *[Signature]* Date 2/11/20

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*[Signature]* 6-12-16  
DIRECTOR OF PUBLIC WORKS DATE

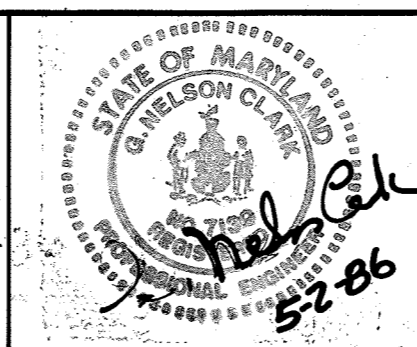
*[Signature]* 6-10-86  
CHIEF, BUREAU OF UTILITIES DATE

*[Signature]* 6-12-16  
CHIEF, BUREAU OF ENGINEERING DATE

*[Signature]* 6-12-16  
CHIEF, LAND DEVELOPMENT DIV. DATE

**CLARK · FINEPROCK & SACKETT**  
ENGINEERS · PLANNERS · SURVEYORS

11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904  
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DES:	VLM	1	Revised street names	2-3-87
DRN:				
CHK:				
DATE:	BY	NO.	REVISION	DATE

PROFILE OF WATER MAIN

600' SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

CEDAR ACRES, SECTION FOUR  
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CONTRACT NO. 44-1480 D

SCALE  
HORIZ: 1"=50'  
VERT: 1"=5'

SHEET  
3 OF 3

AS-BUILT