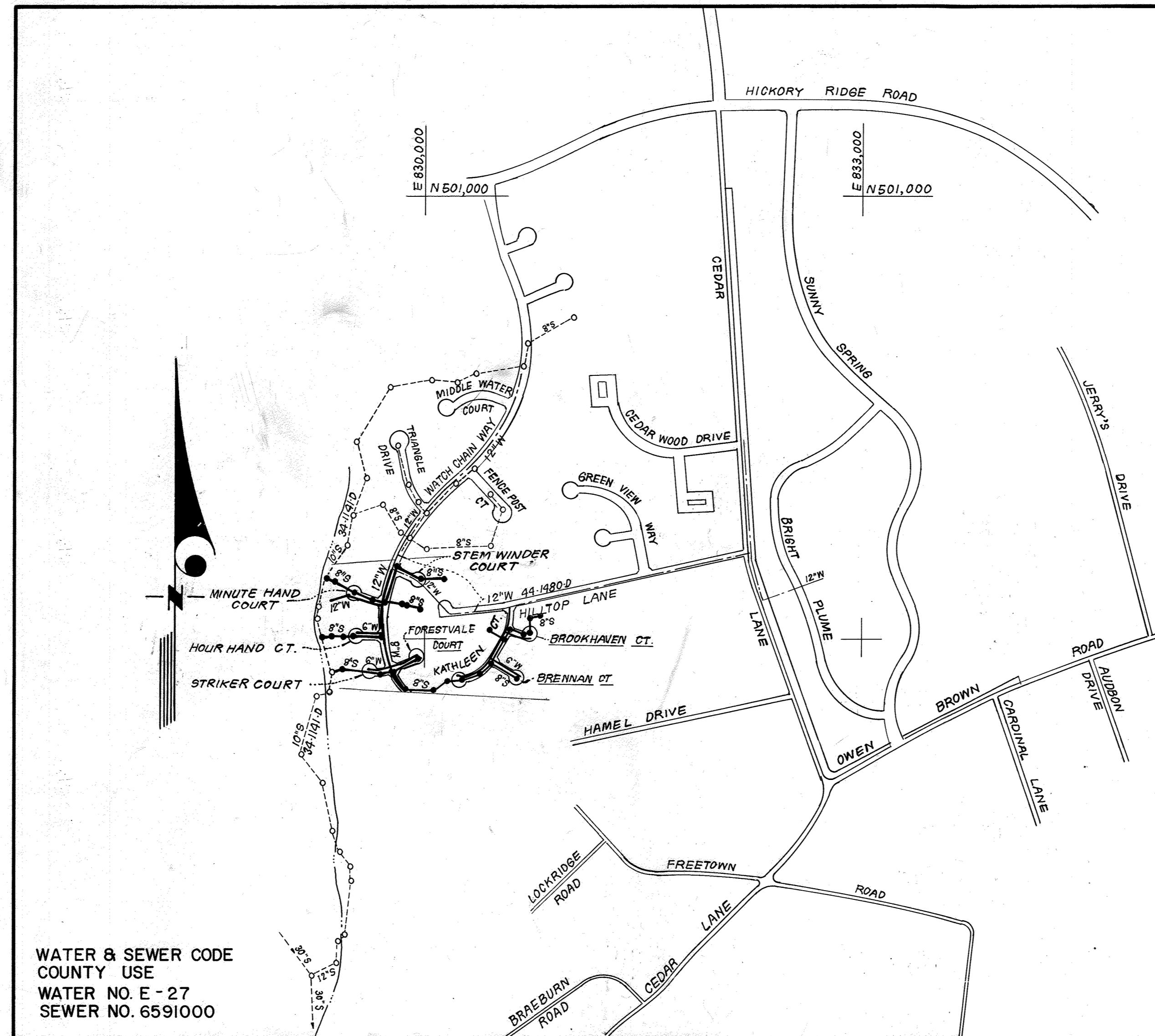


TYPE OF BUILDING	Single Family
NO OF LOTS	91
NO OF WHC	80
NO OF SHC	91
DRAINAGE AREA	MIDDLE Patuxent



WATER & SEWER CODE
 COUNTY USE
 WATER NO. E-27
 SEWER NO. 6591000

VICINITY MAP
 SCALE: 1" = 600'

GENERAL NOTES

- 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.
- All horizontal controls are based on Maryland State Coordinates.
- All vertical controls are based on U.S.G.S. Datum.
- All pipe elevations shown are invert elevations.
- 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.
- 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.
- 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.
- 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 - 850-4620
 - Baltimore Gas & Electric Company - Underground Damage Control - 850-0004
 - Baltimore Gas & Electric Company - Trouble Shooting - 298-9001
 - "Miss Utility" - 1-559-0100
 - Chesapeake & Potomac (C & P) Telephone Company - 1-800-257-7777
 - Colonial Pipeline Company - 705-1300
 - Bureau of Utilities Howard County - 992-2366
- 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.
- 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.
- 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.
- All water mains to be D.I.P. unless otherwise noted.
- Top of all water mains to have a minimum of 3-1/2' cover unless otherwise noted.
- Valves adjacent to tees shall be strapped to tees.
- Block all fittings with concrete.
- 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.
- All water house connections shall be for an inside meter setting.
- The contractor shall not operate any water main valves on the existing system.
- 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.
- The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
- All manholes shall be 4'-0" inside diameter, unless otherwise noted.
- 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'.
- For all Copper Water House Connections, utilize flared type fittings only.
- Manholes designated thus: WT shall have Watertight Frame & Cover.

CONTRACT NO. 34-1432-D
CEDAR ACRES
SECTION FOUR, LOTS 167 THRU 263
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications & with Road Construction Plan F 86-213; Drawings 10 & 11 of 11 Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT
[Signature] 10-16-86
 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:
[Signature] 10/16/86
 Howard S.C.D. DATE

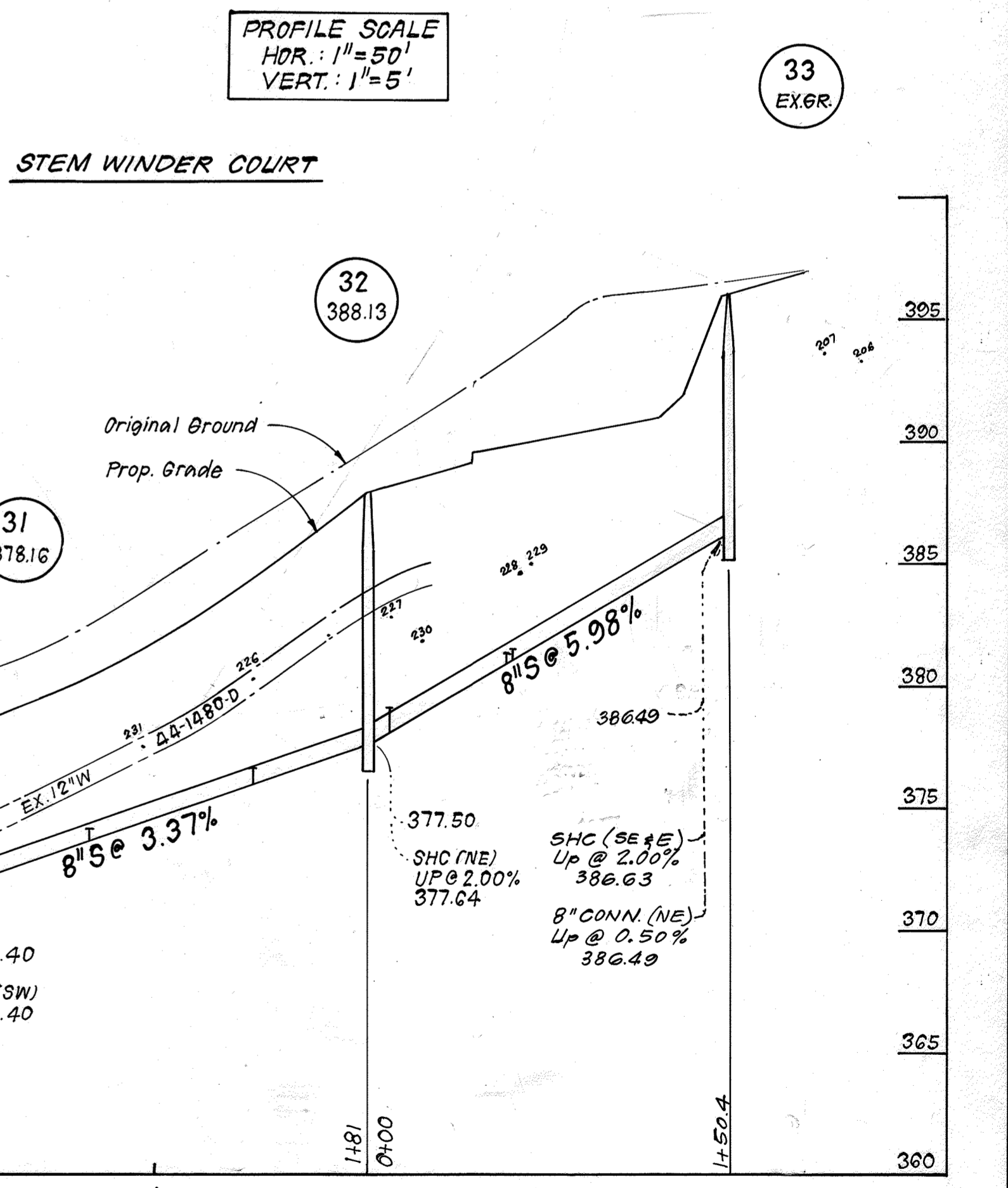
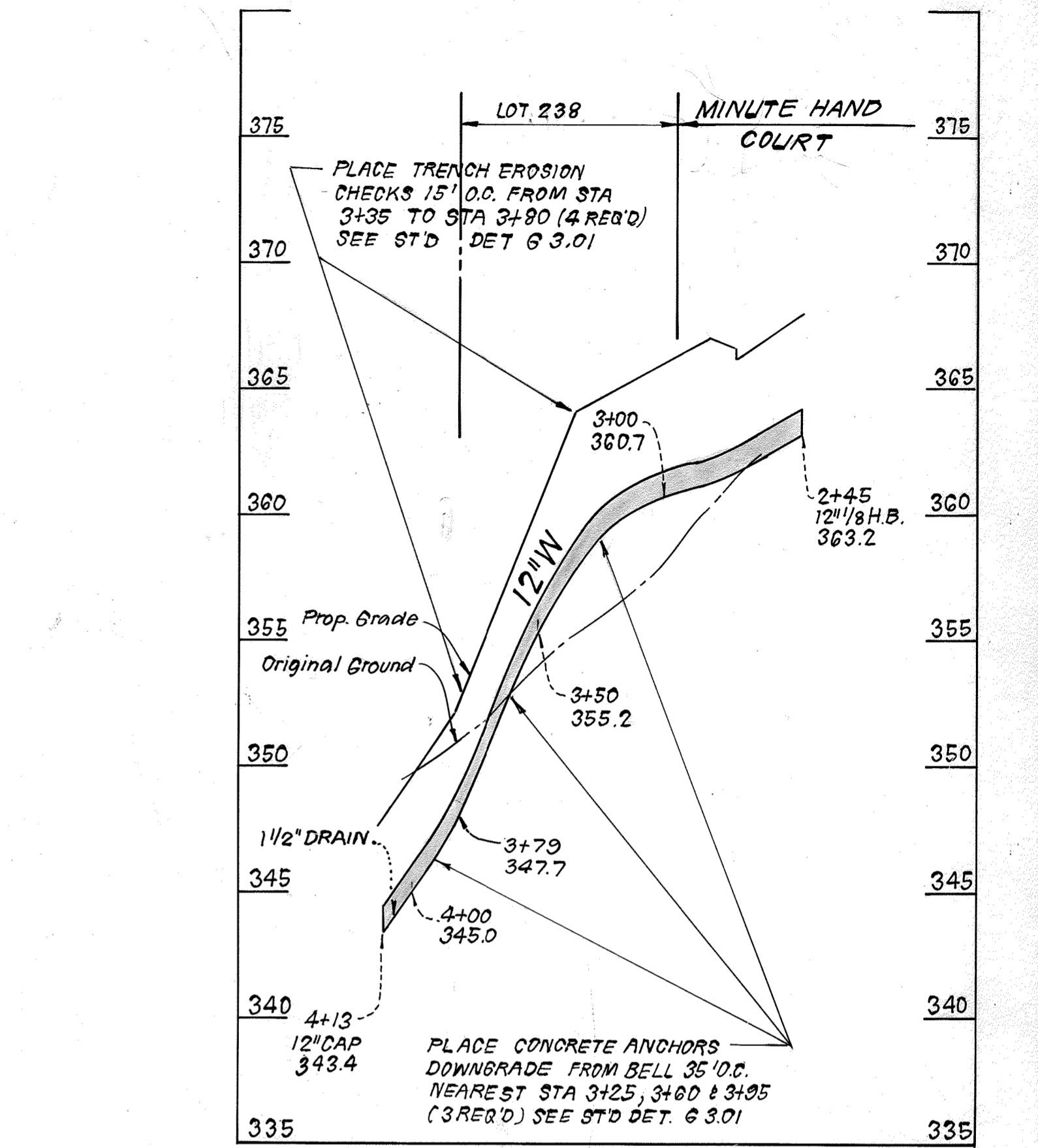
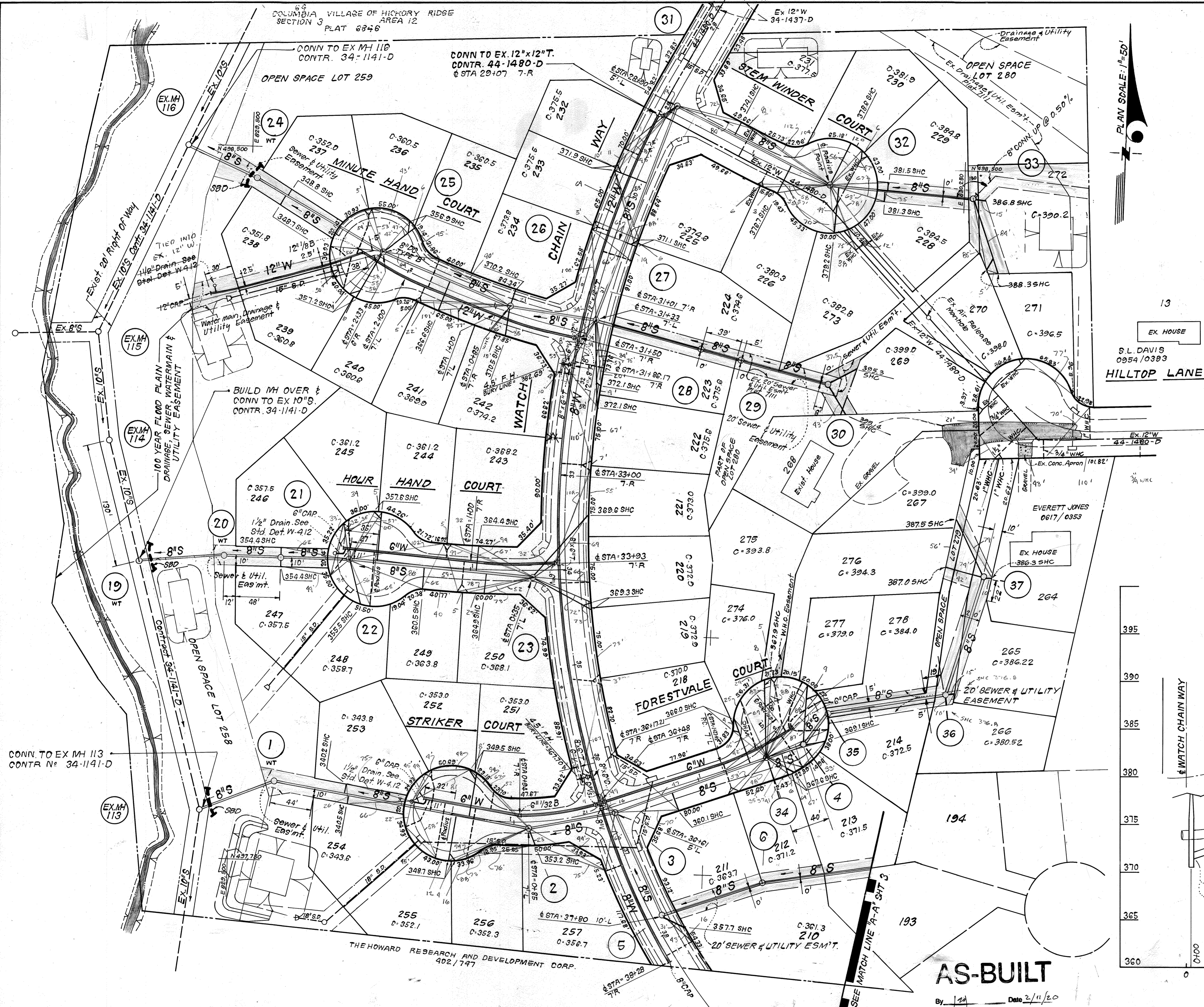
QUANTITIES			
ITEM	EST'D	AS-BUILT	MATERIAL / SUPPLIER
12" W	664 LF	689 L.F.	D.I.P. ATLANTIC PIPE CO
8" W	1,116 LF	1116 L.F.	" "
6" W	1,400 LF	1400 L.F.	" "
8" S	4,286 LF	4541 L.F.	SDR-35 J-M MANUFACTURING CO. P.V.C.
6" SHC	2,216 LF	2554 L.F.	" "
1" WHC	715 LF	715 L.F.	TYPE 'K' COPPER
3/4" WHC	950 LF	950 L.F.	" "
FH	4 EA	4 EA.	M&H VALVE CO.
4" DIAM H	33 EA	37 EA.	PRE-CAST CONCRETE ATLANTIC PRE-CAST CONCRETE CO. P
12" V	1 EA	1 EA.	M&H VALVE CO.
8" V	3 EA	3 EA.	" "
6" V (excl. FH)	6 EA	6 EA.	" "
8" DC TYPE 'B'	1 EA	1 EA.	" "
1 1/2" DRAIN	4 EA	3 EA.	FORD VALVE CO.

AS-BUILT
 Date 2/11/20

NOTE: Contractor to Notify Froehling & Robertson Inc. at 947-6500 (Attn: William Ochs) five (5) work days in advance of beginning work.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: <i>[Signature]</i> 11-10-86 Chief, Bureau of Engineering: <i>[Signature]</i> Chief, Bureau of Utilities: <i>[Signature]</i> 10-20-86 Chief, Land Development Div.: <i>[Signature]</i>		CLARK FINECROCK & SACKETT ENGINEERS, PLANNERS, SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400		DES: CCM DRN: JTR CHK: CCM DATE: 6-23-86		TITLE SHEET A.D.O. AS-BUILT INFO (SHEET 3 OF 5) 2-11-20		CEDAR ACRES SECTION FOUR, LOTS 167 THRU 263 ELECTION DISTRICT NO. 5 CONTRACT NO. 34-1432-D		SCALE AS SHOWN SHEET 1 OF 5
---	--	---	--	---	--	---	--	---	--	--------------------------------------

AS-BUILT G. WALLACE 8/4/87



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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John C. Neumaier 11-10-15
DIRECTOR OF PUBLIC WORKS DATE

Robert M. Bevis 10-20-16
CHIEF, BUREAU OF UTILITIES DATE

Robert M. Bevis 10-21-16
CHIEF, BUREAU OF ENGINEERING DATE

Michael J. ... 10-21-16
CHIEF, LAND DEVELOPMENT DIV. DATE

CLARK · FINEPROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS

11515 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904
(301) 593-3400

DES:			
DRN:			
CHK:	VLM	2	7-23-87
DATE:	VLM	1	5-14-87
BY:	NO.	REVISION	DATE
		Revised Water & Sewer Mains, W.C.'s & S.H.C.'s in vicinity of Forestvale Ct, Stem Winder Ct. and Hilltop Lane due to lot configuration changes.	7-23-87
		Added 3+79 station to profile.	5-14-87

PLAN AND PROFILES OF
WATER & SEWER MAINS

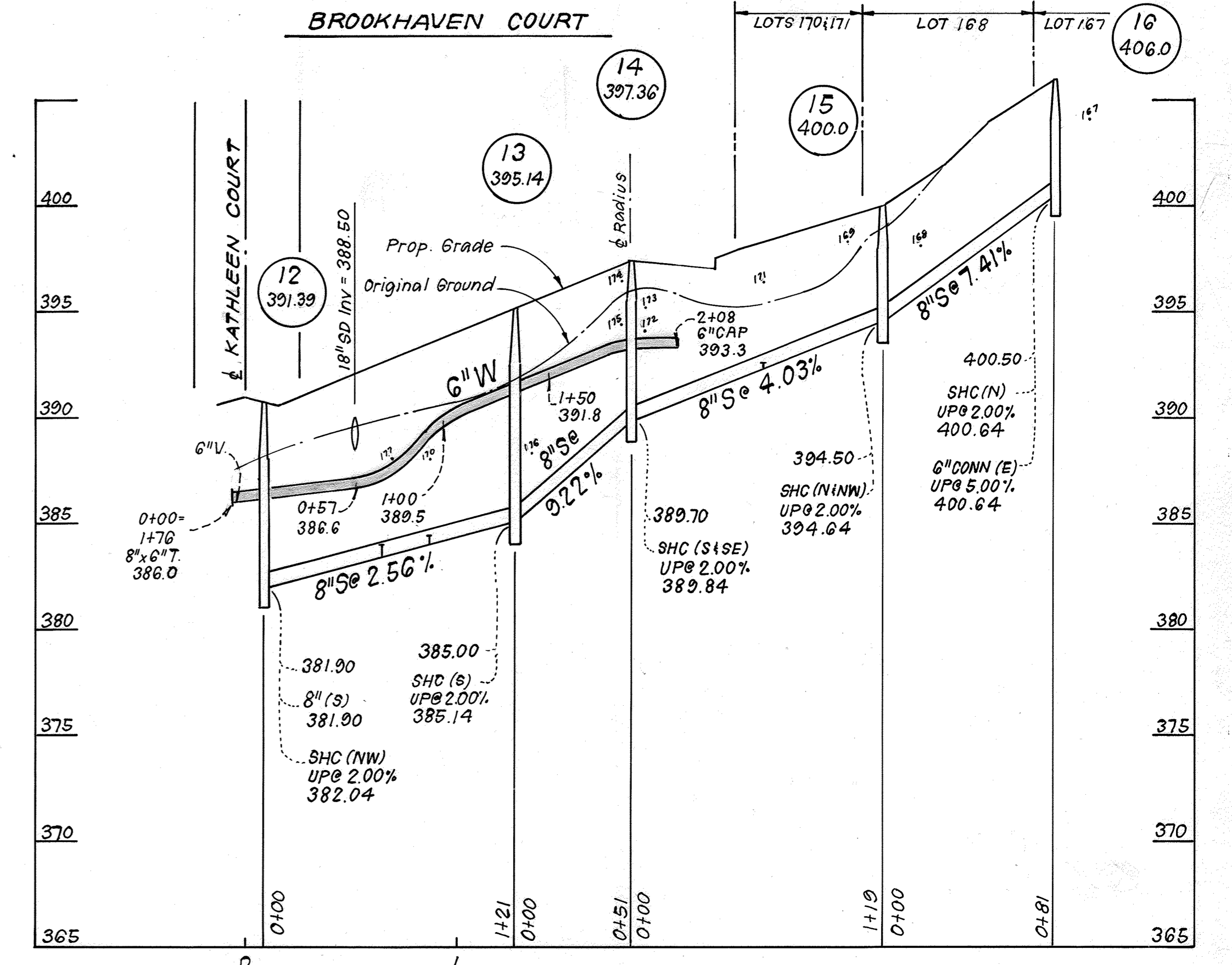
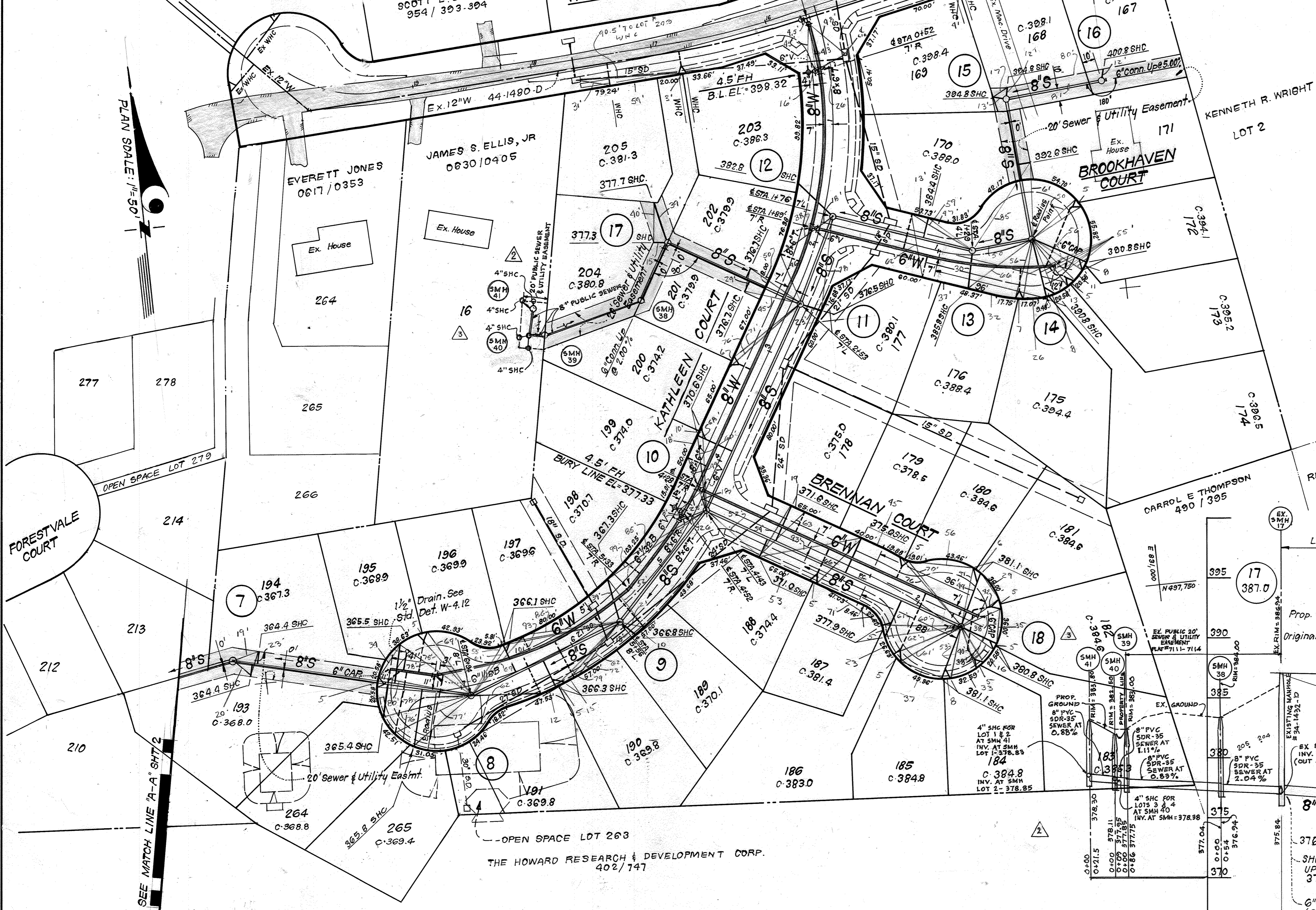
600' SCALE MAP NO. 35 BLOCK NO.

CEAR ACRES
SECTION FOUR, LOTS 167 THRU 263
ELECTION DISTRICT NO. 5
CONTRACT NO. 34-1432-D

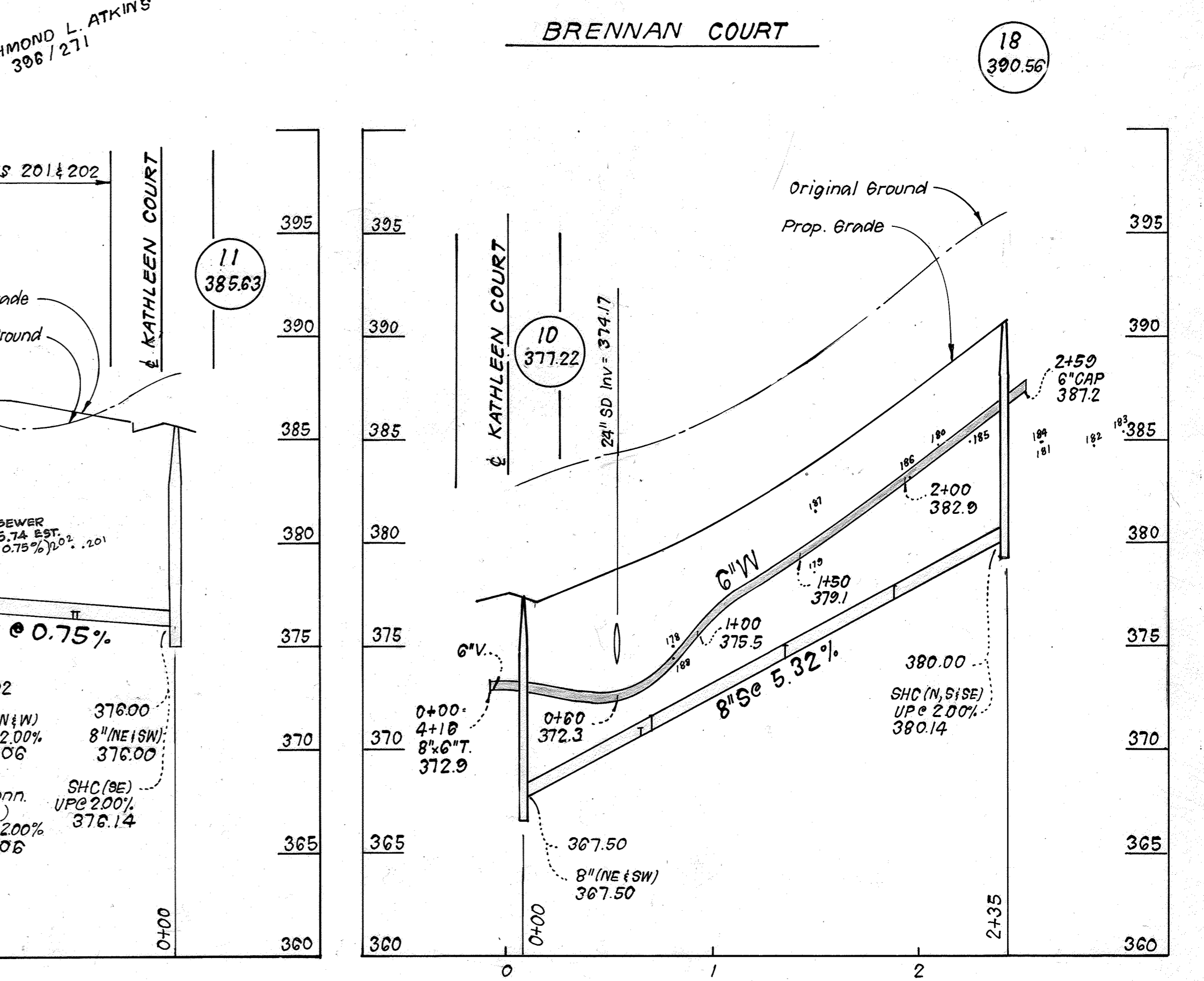
SCALE
AS SHOWN

SHEET
2 OF 5

Sewer House Clean Out Lot	Ties	Inverts
Sewer House Clean Out Lot 4		
Lot #4 HCO to SMH #39	12.0'	378.60
Lot #4 HCO to Lot #3 HCO	12.5'	
Sewer House Clean Out Lot 3		
Lot #3 HCO to SMH #39	11.5'	378.60
Lot #3 HCO to Lot #4 HCO	12.5'	
Sewer House Clean Out Lot 2		
Lot #2 HCO to SMH #41	13.8'	378.83
Lot #2 HCO to Lot #1 HCO	11.3'	
Sewer House Clean Out Lot 1		
Lot #1 HCO to SMH #41	7.5'	378.73
Lot #1 HCO to Lot #2 HCO	11.3'	



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



AS-BUILT

By *[Signature]* Date 2/1/20

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 11-10-16
DIRECTOR OF PUBLIC WORKS DATE

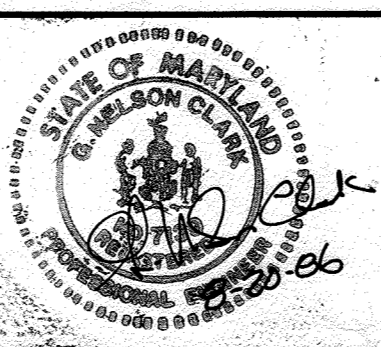
[Signature] 10-20-16
CHIEF, BUREAU OF UTILITIES DATE

[Signature] 10-20-16
CHIEF, BUREAU OF ENGINEERING DATE

[Signature] 10-20-16
CHIEF, LAND DEVELOPMENT DIV. DATE

CFE CLARK · FINEPROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS

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



DES:		
DRN:		
CHK:	WRA	10-19-20
	LEM	2-11-20
	VLM	7-23-87
DATE:	BY NO.	REVISION

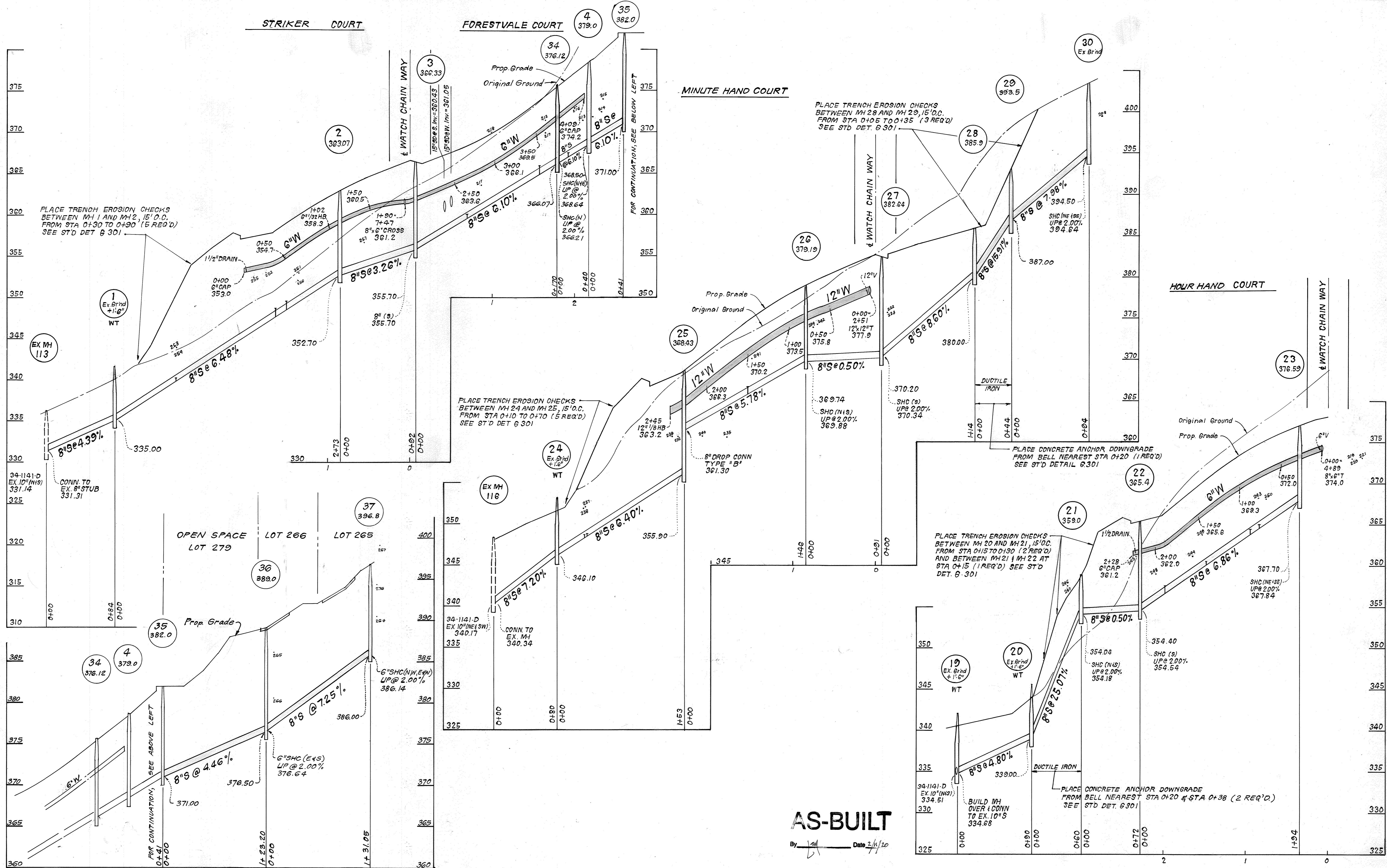
PLAN AND PROFILES OF
WATER & SEWER MAINS

600' SCALE MAP NO. 25 BLOCK NO.

CEDAR ACRES
SECTION FOUR, LOTS 167 THRU 263
ELECTION DISTRICT NO. 5
CONTRACT NO. 34-1432-D

SCALE
AS SHOWN

SHEET
3 OF 5



AS-BUILT

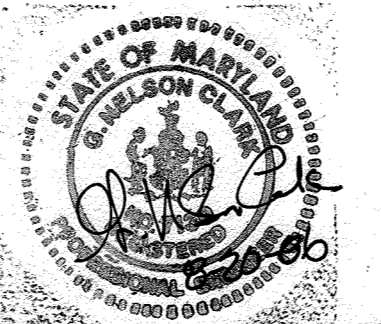
By *[Signature]* Date 2/11/20

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 11-10-16
DIRECTOR OF PUBLIC WORKS DATE
[Signature] 10-30-86
CHIEF, BUREAU OF UTILITIES DATE

CLARK FINEROCK & SACKETT
ENGINEERS, PLANNERS, SURVEYORS

11515 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904
(301) 593-3400

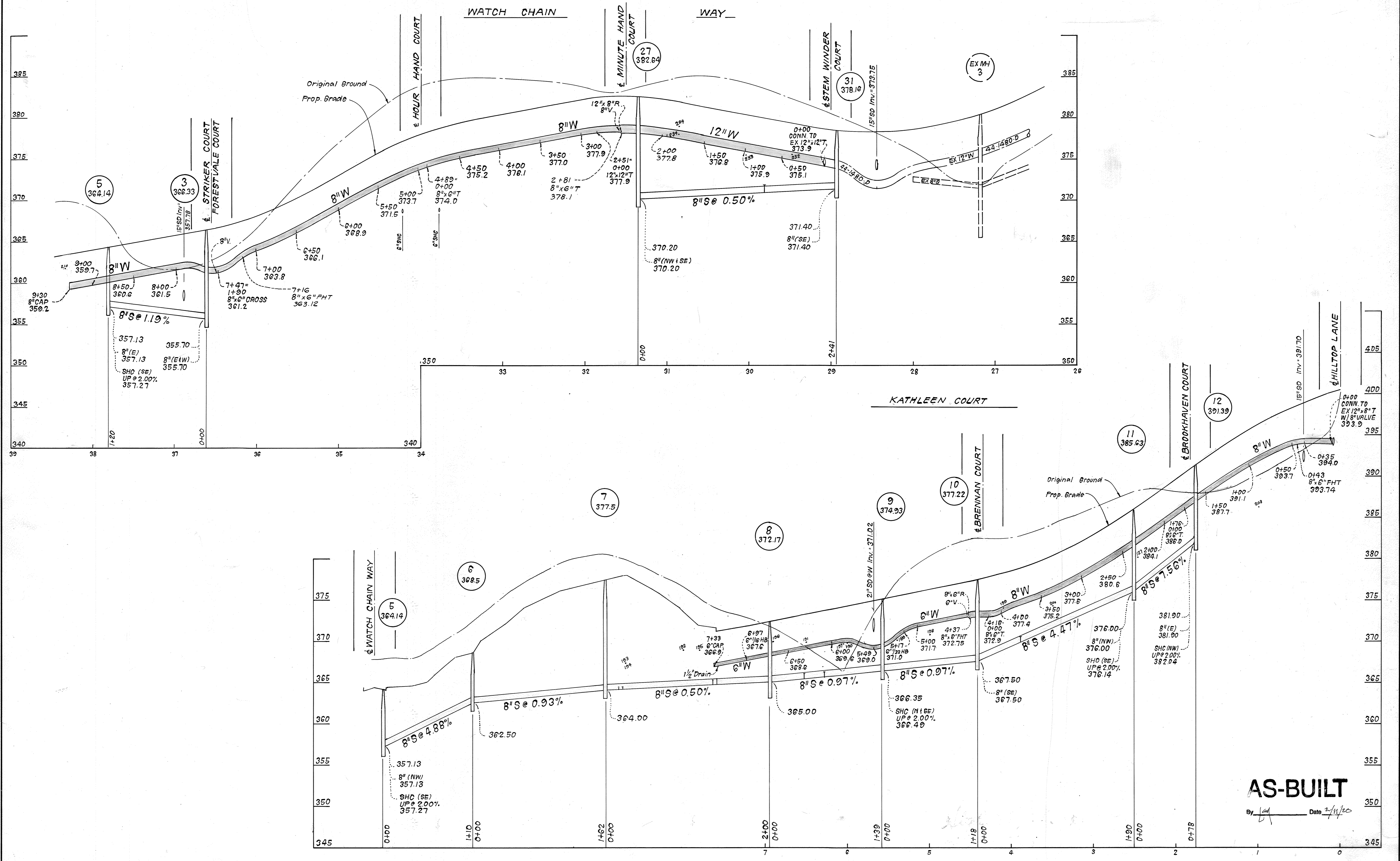


DES:		
DRN:		
CHK:	VLM 3 Revised profiles from MH 34 thru 37	7-28-87
	VLM 2 Revised grade bet. MH's 28 thru 30	5-14-87
	VLM 1 Added 2nd anchor at Sta. 0+38 Hour Hand Ct.	12-11-86
DATE:		
BY NO.		REVISION
		DATE

PROFILES OF WATER & SEWER MAINS

CEDAR ACRES
SECTION FOUR, LOTS 167 THRU 263
ELECTION DISTRICT NO. 5
CONTRACT NO. 34-1432-D

SCALE
HORZ: 1"=50'
VERT: 1"=5'
SHEET
4 OF 5



AS-BUILT
 By *[Signature]* Date 2/11/86

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

[Signature] 11-10-78
 DIRECTOR OF PUBLIC WORKS DATE

[Signature] 10-20-86
 CHIEF, BUREAU OF UTILITIES DATE

[Signature] 10-21-86
 CHIEF, BUREAU OF ENGINEERING DATE

[Signature]
 CHIEF, LAND DEVELOPMENT DIV. DATE

CLARK · FINEPROCK & SACKETT
 ENGINEERS · PLANNERS · SURVEYORS

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



DES:	
DRN:	
CHK:	
DATE:	VLM 1 12-11-86
BY NO.	REVISION
	Added profile station 1+20 to Watch Chain Way

PROFILES OF
 WATER & SEWER MAINS

600' SCALE MAP NO. 35 BLOCK NO.

CEDAR ACRES
 SECTION FOUR, LOTS 167 THRU 263
 ELECTION DISTRICT NO. 5
 CONTRACT NO. 34-1432-D

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

SHEET
 5 OF 5