

GENERAL NOTES

PART I - GENERAL

- 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 Engineer at the Contractor's expense.
- All horizontal controls are based on Maryland State Coordinates. [North American Datum of 1983 (NAD '83)].
- All vertical controls are based on U.S.G.S. data.
- 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. The owner has contacted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event that the contractor's work requires the bracing of additional poles, any cost incurred by the owner for bracing of additional poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
- For details not shown on the drawings, and for materials and construction methods, use Howard County Design Manual, Volume IV, Standard Specifications and Details for Construction (Latest Edition). The contractor shall have a copy of Volume IV on the job.
- Where test pits have been made on existing utilities, they are noted by the symbol at the location of the test pit. A note or notes containing the results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the contractor two weeks in advance of construction operations at his own expense.
- Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

State Highway Administration	531-5533
B&E Co. Contractor Services	850-4620
B&E Co. Under Ground Damage Control	787-9068
Miss Utility	1-800-257-7777
Colonial Pipeline Co.	795-1390
Howard County Department of Public Works Bureau of Utilities	313-4900
- Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs 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. Payment for such removal shall be included in the unit price bid for construction of the main.
- The contractor shall notify the Bureau of Highways, Howard County, at (410) 313-2450 at least five working days before any open cut of any County road or boring/jacking operation in County roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per Section 18.114(a) of the Howard County Code.

PART II - WATER

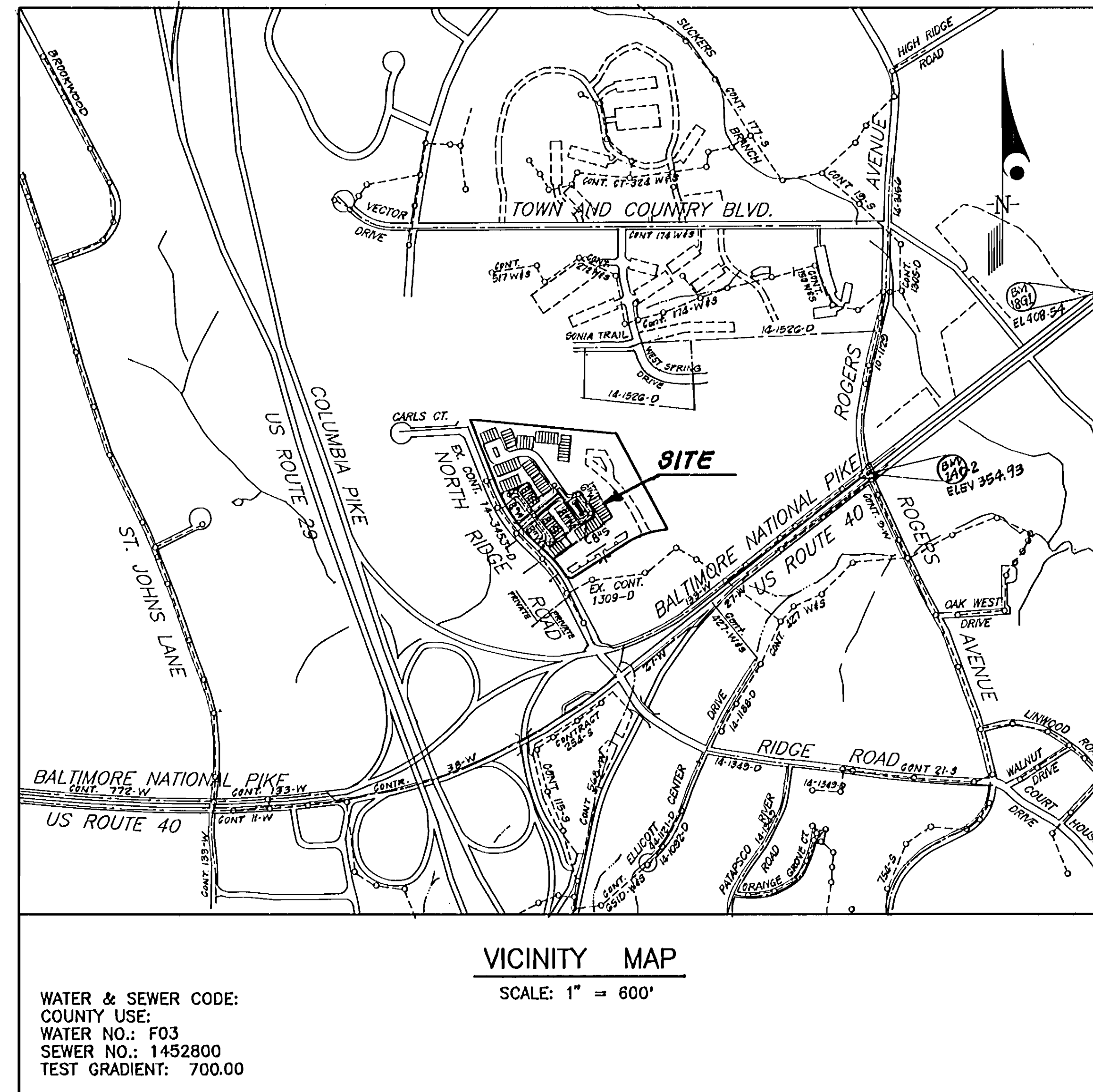
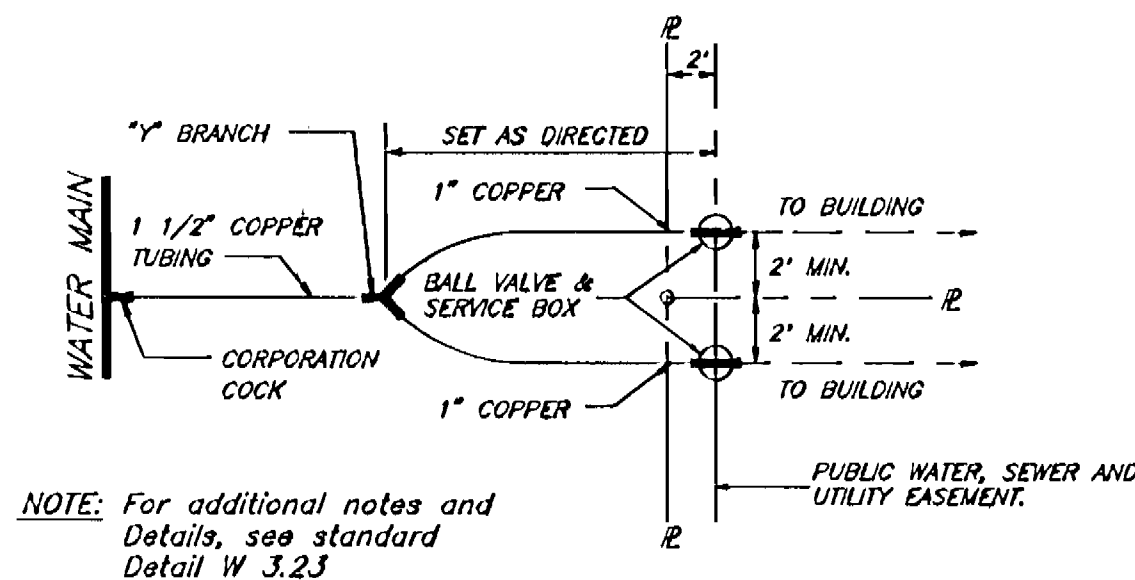
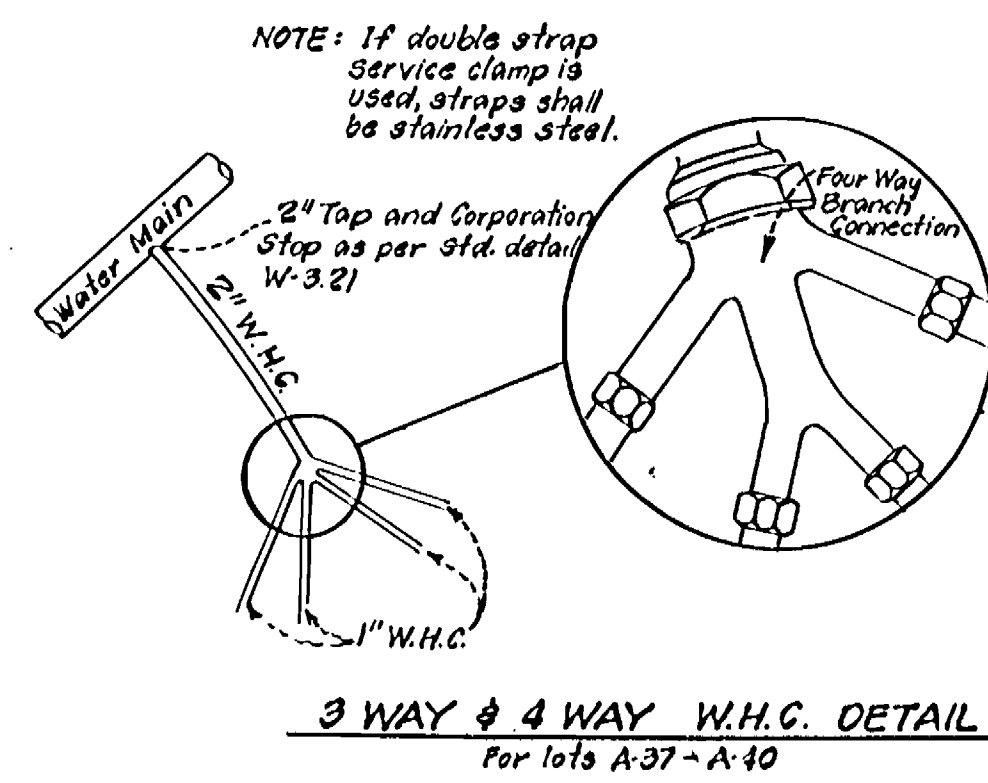
- All water mains to be D.I.P. Class 52 unless otherwise noted.
- Tops of all water mains to have a minimum of 3'-1/2' cover unless otherwise noted.
- Valves adjacent to tees shall be strapped to tees.
- All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
- Fire hydrants shall be set to the bury line elevations shown of the drawings. All fire hydrants shall be restrained and buttressed with concrete in accordance with Standard Details. Soil around the fire hydrant shall be compacted in accordance with Sections 1000 and 1005 of the Standard Specifications.
- The contractor shall not operate any water main valves on the existing water system.
- All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
- For sprinkler system for all townhomes or multi-family dwelling units shall have a minimum of 1" connection with a 3/4" meter.

PART III - SEWER

- All sewer mains shall be DIP or P.V.C. unless otherwise noted.
- All manholes shall be 4'-0" inside diameter unless otherwise noted.
- Force mains shall be D.I.P. only.
- Manholes shown with 12" and 16" walls are for brick manholes only.
- Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail 05.52. Where watertight manhole frame and cover is used, set top of frame 1" - 6" above finished grade unless otherwise noted on the drawings.
- House(a) with the symbol "C.N.S." indicates that cellar cannot be served.

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" W	824 L.F.	0 W.C.	D.I.P.	ATLANTIC STATES/AH PIPE, INC.
6" W	771 L.F.	710 D.I.F.	D.I.P.	ATLANTIC STATES/AH PIPE, INC.
2" W.H.C.	70 EA.			
1 1/2" W.H.C.	533 L.F.	706 D.I.F.	SOFT WOOD	REAR ROAD SUPPLY
1" W.H.C.	964 L.F.	1,014 D.I.F.	SOFT WOOD	REAR ROAD SUPPLY
8" V	3 EA.	3 EA.	METAL	REAR ROAD SUPPLY
6" V (EXCL. F.H.)	4 EA.	4 EA.	METAL	REAR ROAD SUPPLY
FIRE HYDRANT	2 EA.	2 EA.	METAL	REAR ROAD SUPPLY
8" S	1507 L.F.	1,421 D.I.F.	P.V.C.	J.M. MANUFACTURING
4" S.H.C.	822 L.F.	330 D.I.F.	P.V.C.	J.M. MANUFACTURING
4'-0" MANHOLE	11 EA.	11 EA.	CONCRETE M.H.	ATLANTIC STATES/AH PIPE, INC.

NAME OF UTILITY CONTRACTOR: **GAINES & COMPANY**
 SURVEY AND DRAFTING DIVISION AS-BUILT DATE:



TYPE OF BUILDING	TOWNHOUSES
NO. OF NON-BUILDABLE LOTS	3
NO. OF BUILDABLE LOTS	51
NO. OF WATER HOUSE CONNECTIONS	56
NO. OF SEWER HOUSE CONNECTIONS	56
DRAINAGE AREA	PATAPSCO
TREATMENT PLANT	PATAPSCO W.Q.M.C.

* 5 HOUSE CONNECTIONS TO SERVE FUTURE BUILDABLE LOTS.

CONTRACT NO.14-3491-D
HOWARD'S RIDGE
SECTION 1 AREA 1
LOTS A-5 THRU A-61
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLAN F-95-147; DRAWING , SEDIMENT AND EROSION CONTROL.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

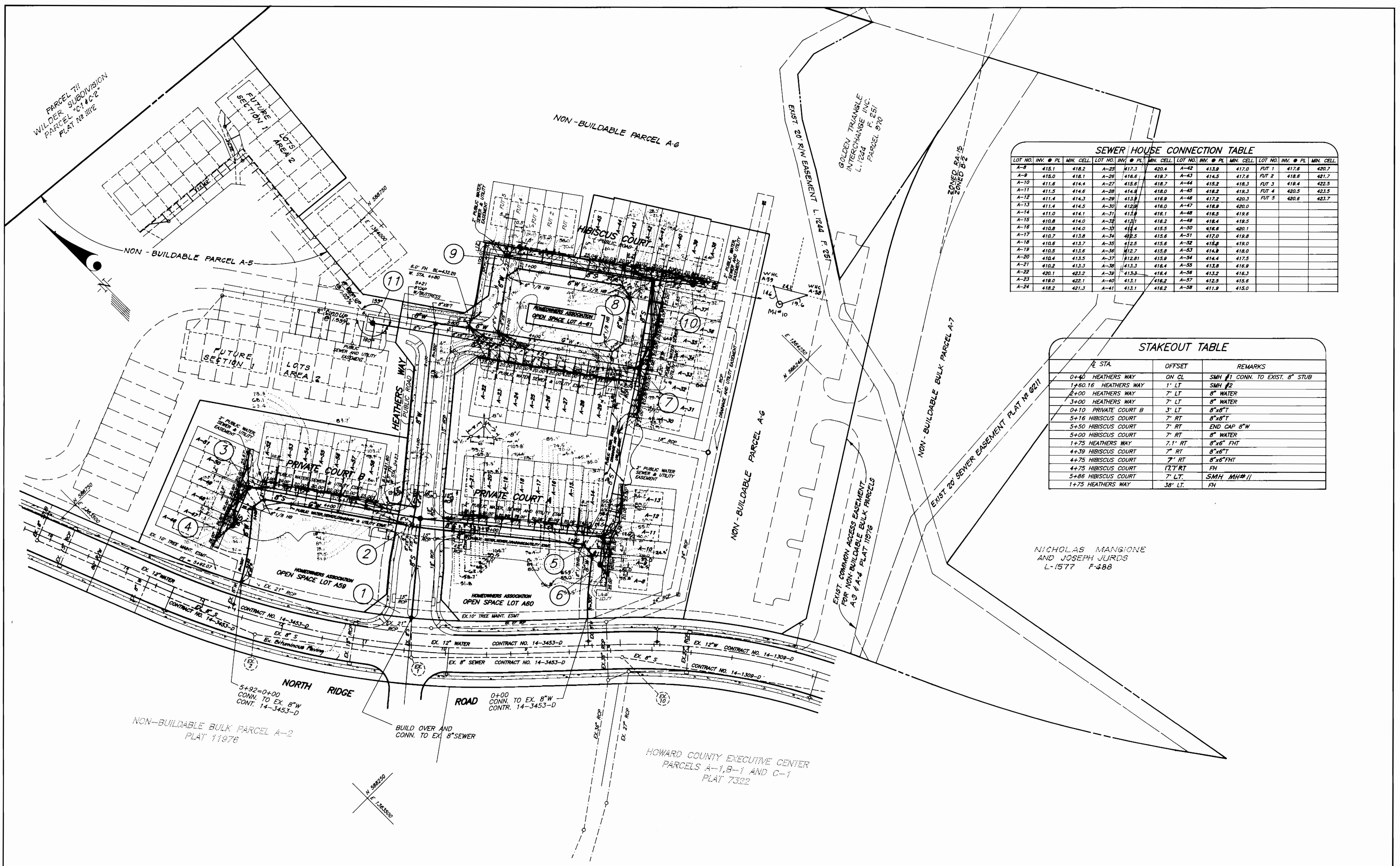
J. A. Walden 2/16/96
 SIGNATURE DATE

U. S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED:
John R. Deutscher 2/16/96
 HOWARD S. C. D. DATE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND	CLARK · FINEPROCK & SACKETT, INC. ENGINEERS · PLANNERS · SURVEYORS 7135 MINSTREL WAY COLUMBIA, MD 21045 (410) 381-7500 (301) 821-8100 WASH.	DES: KIWM/KZ DRN: KIWM/ZAH CHK: CBM DATE: MARCH 96	BY: NO. REVISION DATE	600' SCALE MAP NO. 24 BLOCK NO. 6	HOWARD'S RIDGE SECTION 1 AREA 1 LOTS A-5 THRU A-61 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT No. 14-3491-D	SCALE: AS SHOWN SHEET 1 OF 4
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SEWER HOUSE CONNECTION TABLE

LOT NO.	INV.	PL.	MIN. CELL.	LOT NO.	INV.	PL.	MIN. CELL.	LOT NO.	INV.	PL.	MIN. CELL.	LOT NO.	INV.	PL.	MIN. CELL.
A-8	415.1		418.2	A-25	417.3		420.4	A-42	413.9		417.0	FUT 1	417.6		420.7
A-9	418.0		418.1	A-26	416.6		418.7	A-43	414.5		417.6	FUT 2	418.6		421.7
A-10	411.6		414.4	A-27	415.6		418.7	A-44	415.2		418.3	FUT 3	418.4		422.5
A-11	411.5		414.6	A-28	414.9		418.0	A-45	418.2		418.3	FUT 4	420.4		423.5
A-12	411.4		414.3	A-29	413.9		418.9	A-46	417.2		420.3	FUT 5	420.6		423.7
A-13	411.4		414.5	A-30	412.9		418.0	A-47	418.9		420.0				
A-14	411.0		414.1	A-31	413.9		418.1	A-48	418.5		419.6				
A-15	410.8		414.0	A-32	413.1		418.2	A-49	418.4		419.5				
A-16	410.8		414.0	A-33	412.4		415.5	A-50	418.6		420.1				
A-17	410.7		413.8	A-34	412.5		415.6	A-51	417.0		419.8				
A-18	410.6		413.7	A-35	412.5		415.6	A-52	415.8		419.0				
A-19	410.5		413.6	A-36	412.7		415.8	A-53	414.9		418.0				
A-20	410.4		413.5	A-37	412.0		415.9	A-54	414.4		417.5				
A-21	410.2		413.3	A-38	413.3		416.4	A-55	413.8		416.9				
A-22	420.1		423.2	A-39	413.3		416.4	A-56	413.2		416.3				
A-23	418.0		422.1	A-40	413.1		416.2	A-57	412.5		415.6				
A-24	418.2		421.3	A-41	413.1		416.2	A-58	411.9		415.0				

STAKEOUT TABLE

STATION	OFFSET	REMARKS
0+40	HEATHERS WAY ON CL	SMH #1 CONN. TO EXIST. 8" STUB
1+60.16	HEATHERS WAY 1' LT	SMH #2
2+00	HEATHERS WAY 7' LT	8" WATER
3+00	HEATHERS WAY 7' LT	8" WATER
0+10	PRIVATE COURT B 3' LT	8"x8" T
5+16	HIBISCUS COURT 7' RT	8"x8" T
5+50	HIBISCUS COURT 7' RT	END CAP 8" W
5+00	HIBISCUS COURT 7' RT	8" WATER
1+75	HEATHERS WAY 7.1' RT	8"x6" FHT
4+39	HIBISCUS COURT 7' RT	8"x6" T
4+75	HIBISCUS COURT 7' RT	8"x6" FHT
4+75	HIBISCUS COURT 17.7' RT	FH
5+86	HIBISCUS COURT 7' LT	SMH MH# 11
1+75	HEATHERS WAY 38' LT	FH

NICHOLAS MANGIONE
AND JOSEPH JURDS
L-1577 P-488

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

J. J. [Signature]
BUREAU OF UTILITIES
DATE: 8/10/94

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 8/19/94

CLARK · FINEFROCK & SACKETT, INC.
ENGINEERS · PLANNERS · SURVEYORS

7135 MINSTREL WAY COLUMBIA, MD 21045
(410) 381-7500 BALT. (301) 621-8100 WASH.

[Signature]

DES: KIWM/KZ
DRN: KIWM/ZAH
CHK: *[Signature]*
DATE: MARCH 96

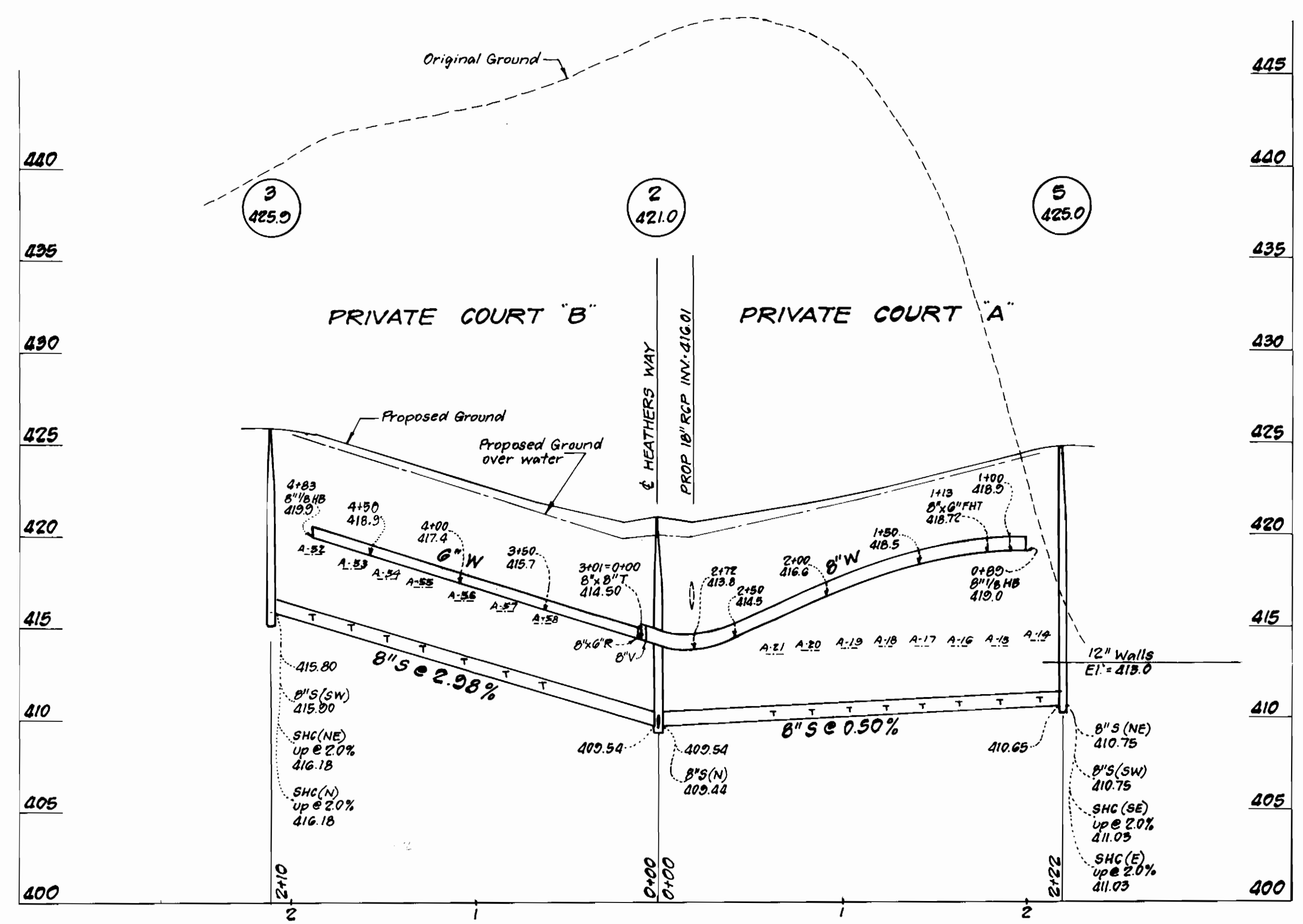
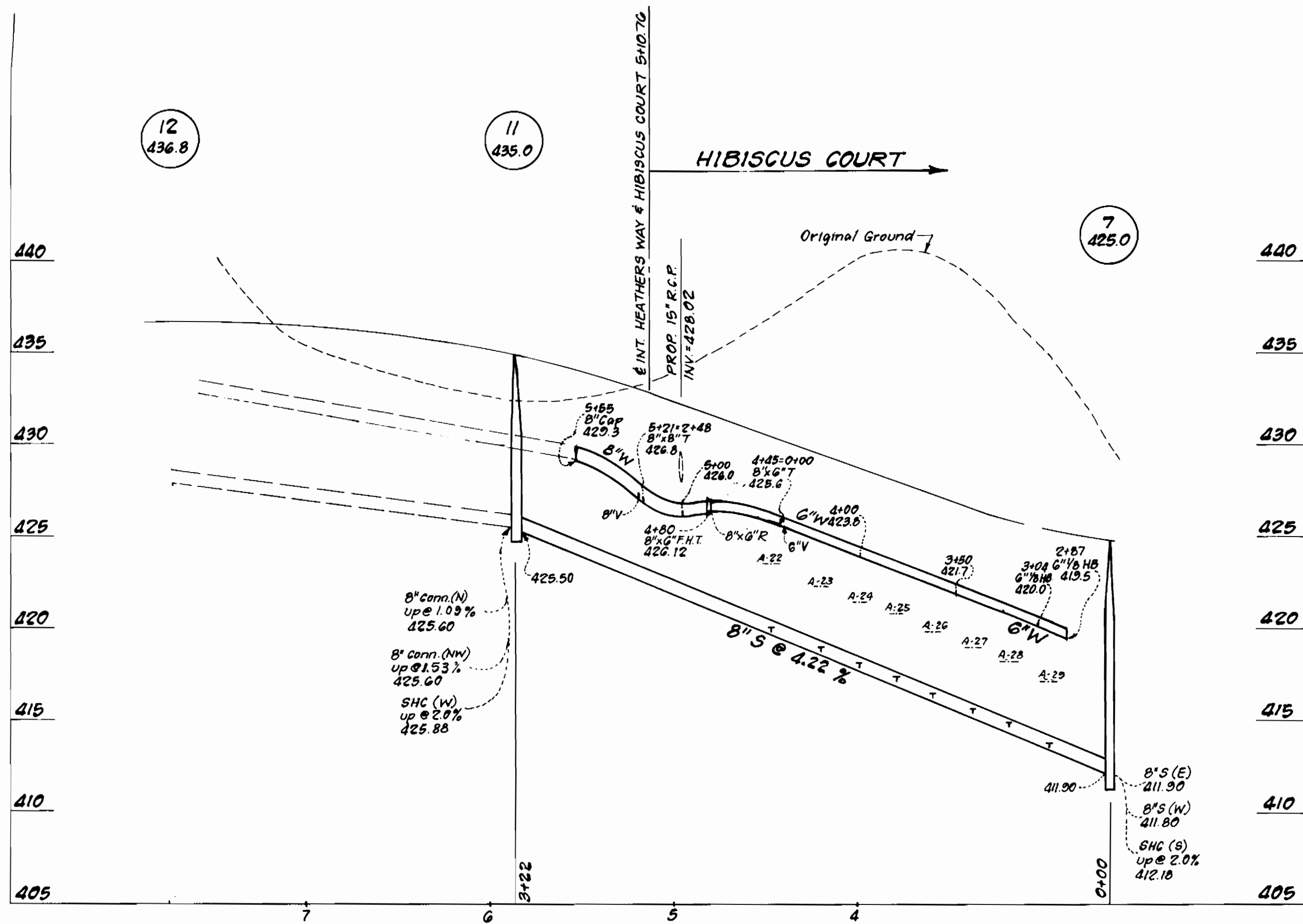
BY NO. REVISION DATE

PLAN SHEET

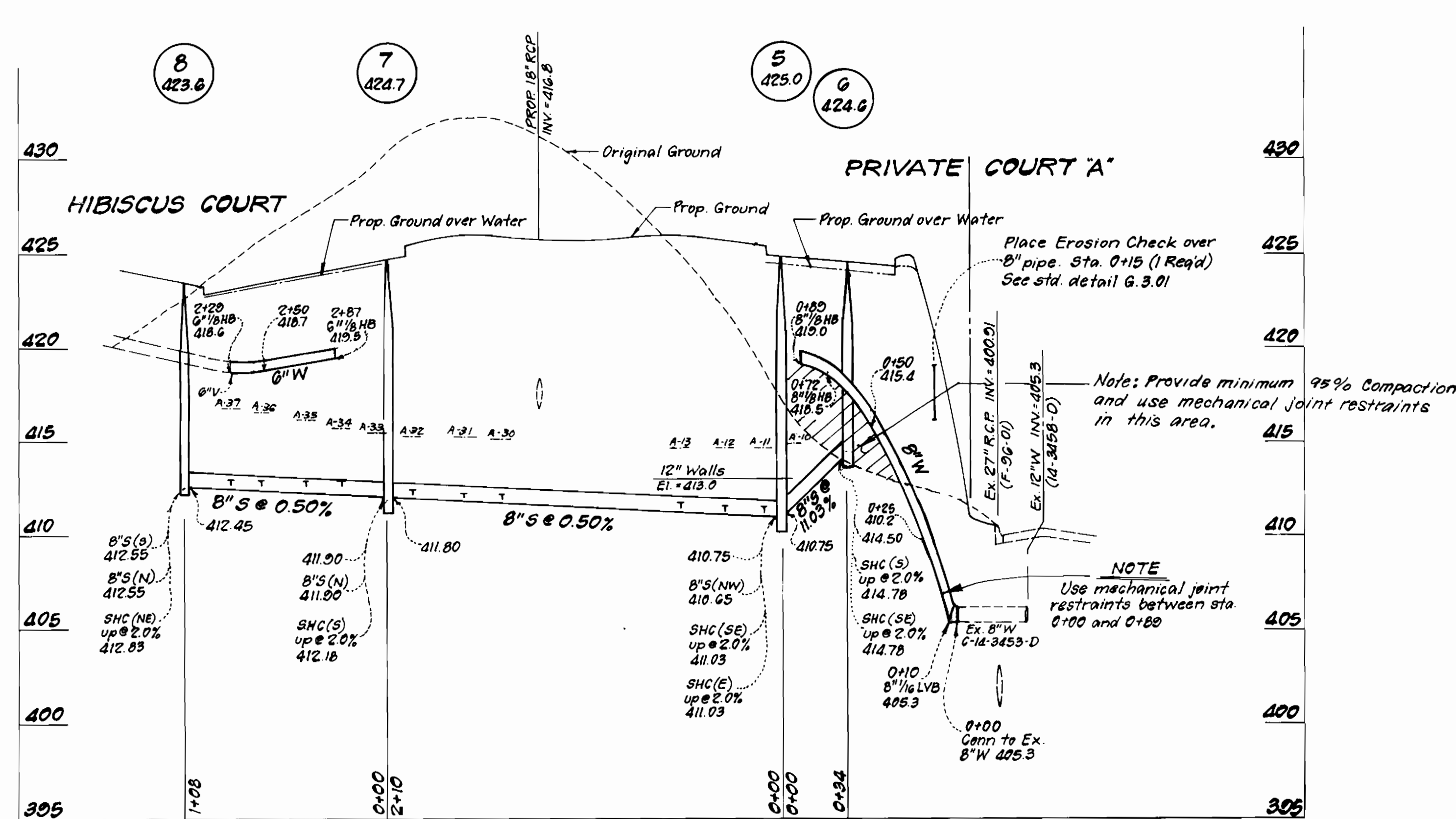
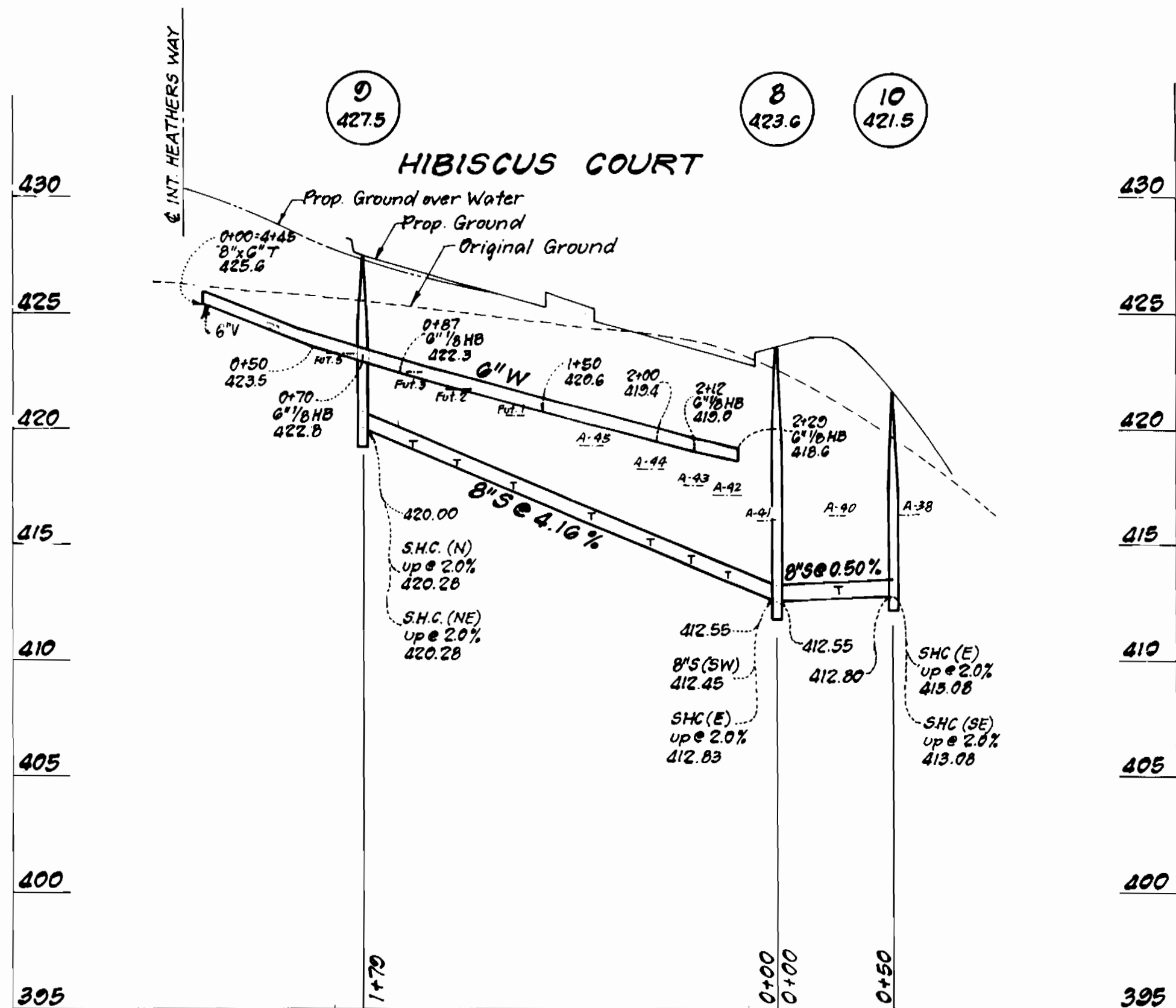
600' SCALE MAP NO. 24 BLOCK NO. 6

**HOWARD'S RIDGE
SECTION 1 AREA 1
LOTS A-5 THRU A-61
2ND ELECTION DISTRICT
CONTRACT No. 14-3491-D**

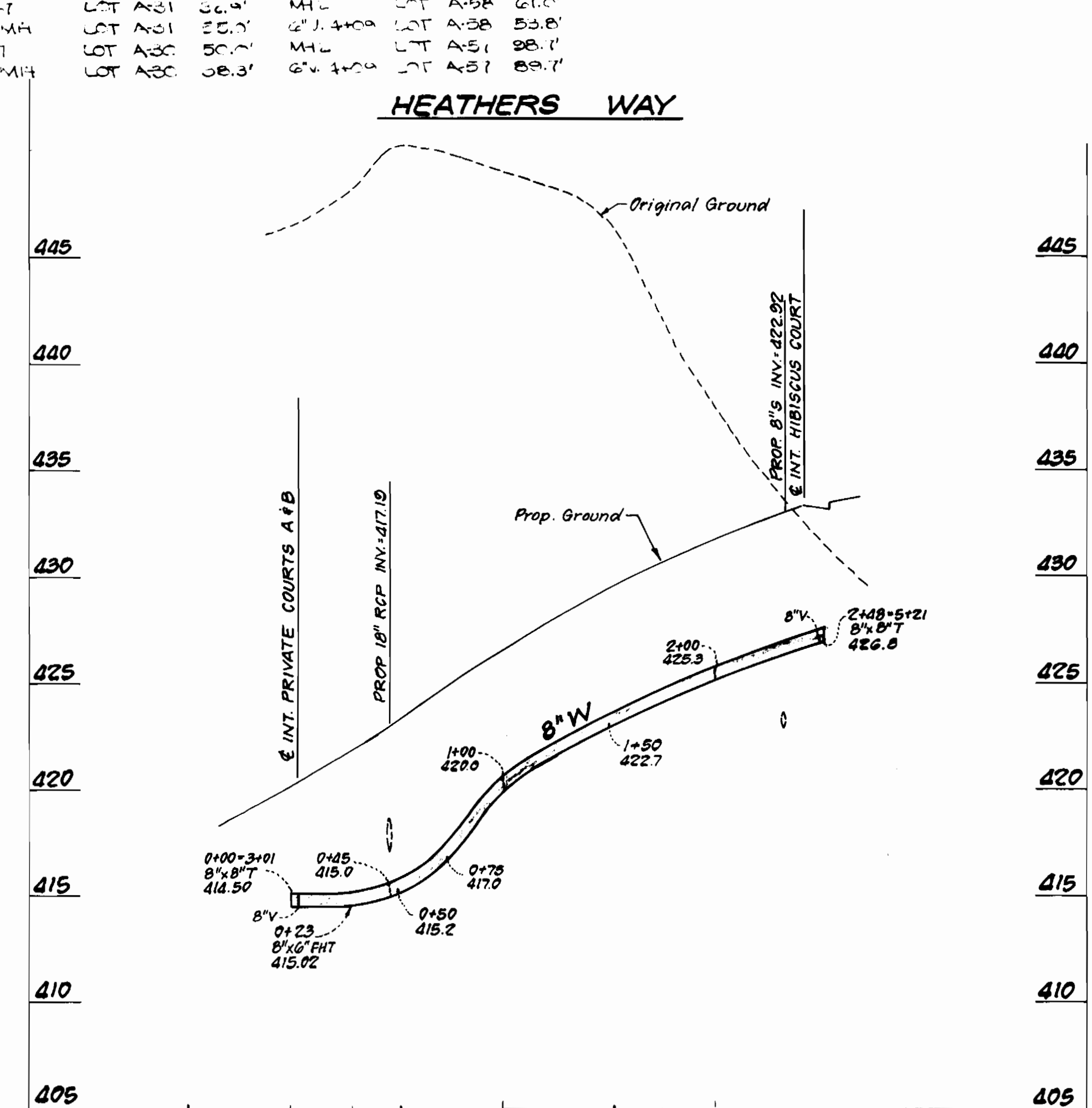
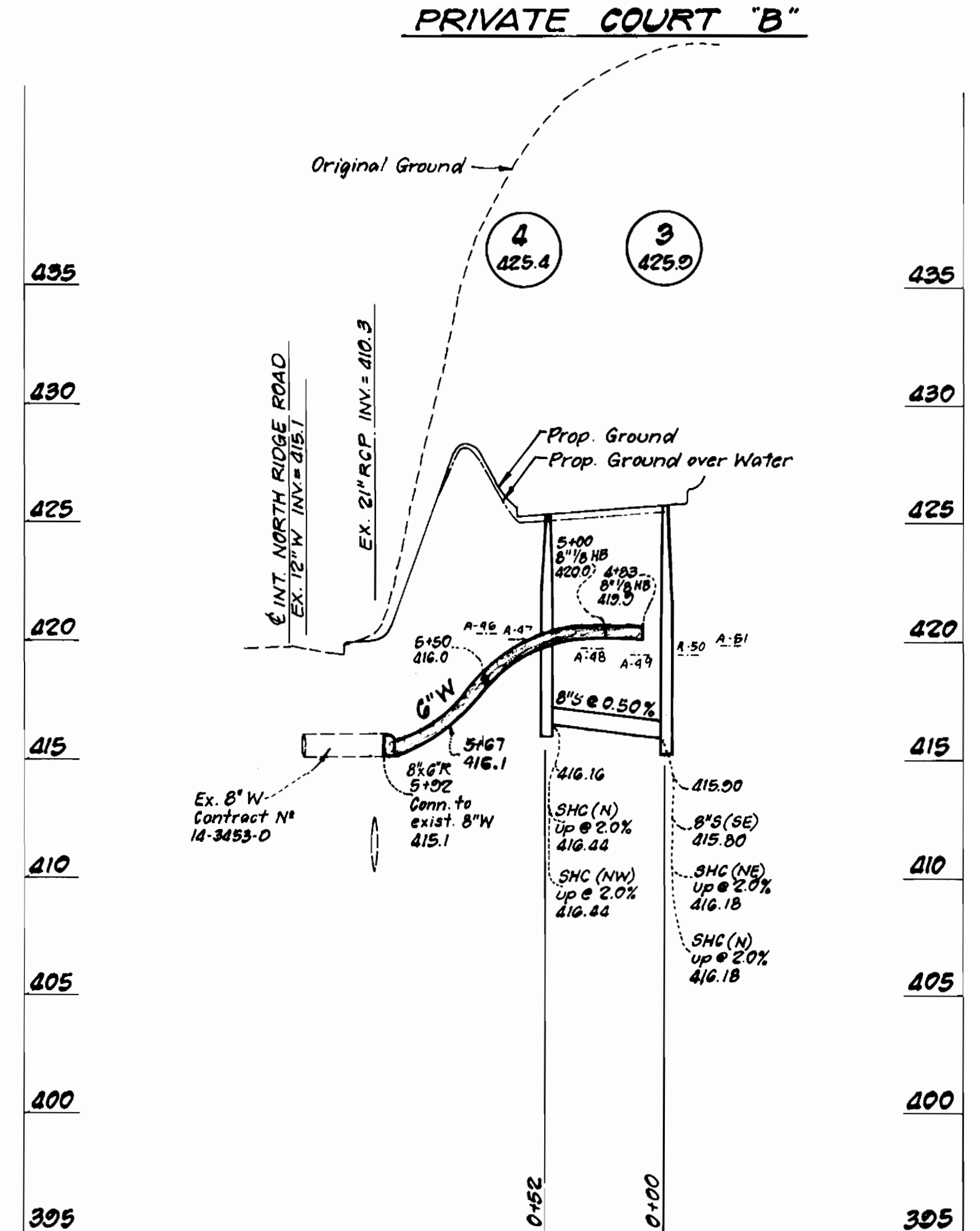
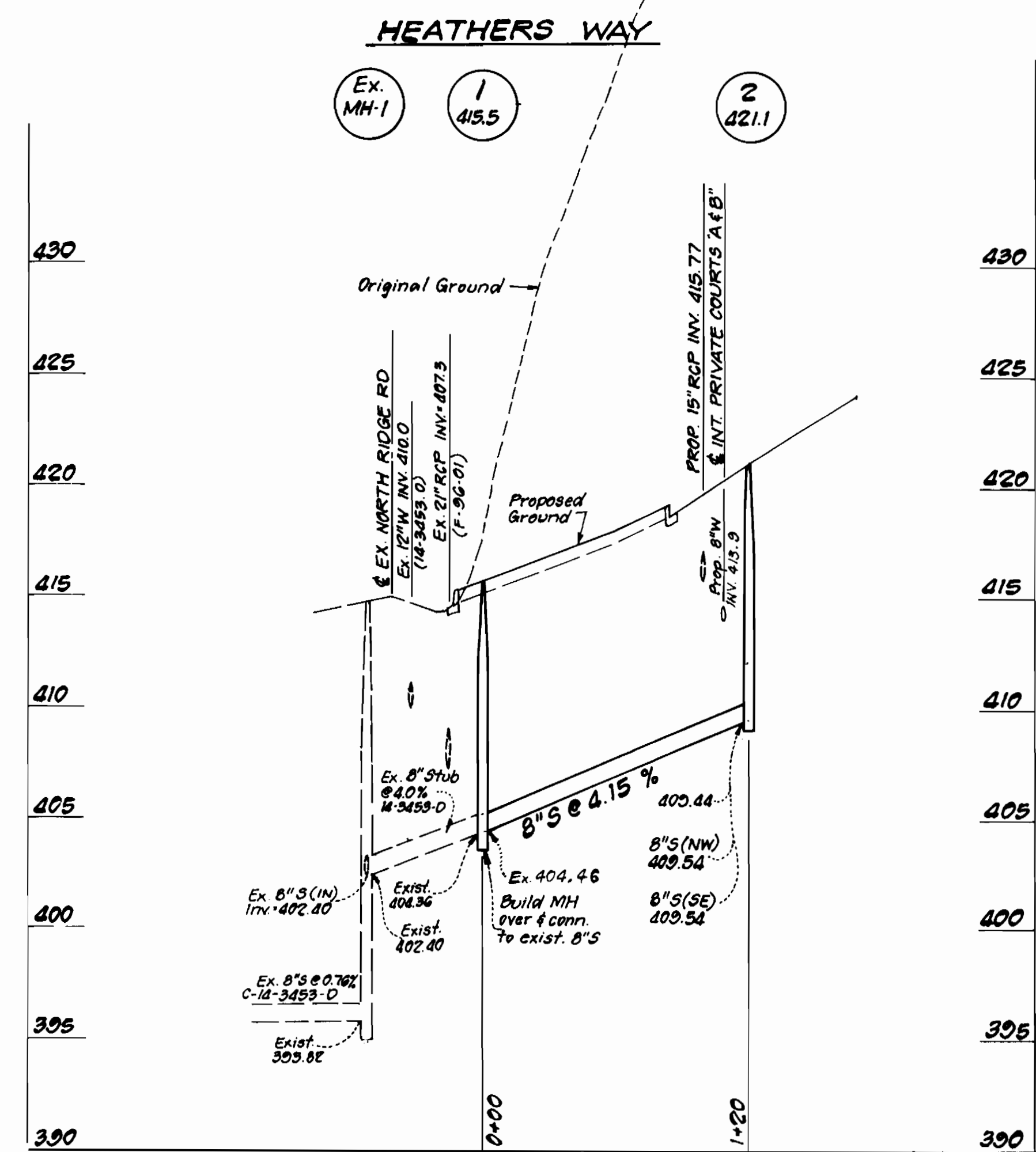
SCALE:
1"=50'
SHEET
2 OF 4



PROFILES
Scale HOR: 1"=50'
VER: 1"=5'



FROM:	TO:	DIST:	FROM:	TO:	DIST:	FROM:	TO:	DIST:	FROM:	TO:	DIST:	FROM:	TO:	DIST:	FROM:	TO:	DIST:	FROM:	TO:	DIST:	FROM:	TO:	DIST:	FROM:	TO:	DIST:
MH 0	LOT A-8	20.0'	MH 1	LOT A-21	39.0'	MH 5	LOT A-17	35.0'	MH 5	LOT A-17	35.0'	MH 5	LOT A-17	35.0'	MH 5	LOT A-17	35.0'	MH 5	LOT A-17	35.0'	MH 5	LOT A-17	35.0'	MH 5	LOT A-17	35.0'



PROFILES
Scale: HOR: 1"=50'
VER: 1"=5'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE: 10/19/95	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND DATE: 10/19/95	CLARK • FINEBROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7135 MINSTREL WAY COLUMBIA, MD 21045 (410) 381-7500 BALT. (301) 621-8100 WASH.	DES: KJWM DRN: ZAH CHK: [Signature] DATE: OCT. 95	REVISION: _____ DATE: _____	600' SCALE MAP NO. 24 BLOCK NO. 6	HOWARD'S RIDGE LOTS A-5 THRU A-61 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT No. 14-3491-D	SCALE: AS SHOWN SHEET 4 OF 4
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