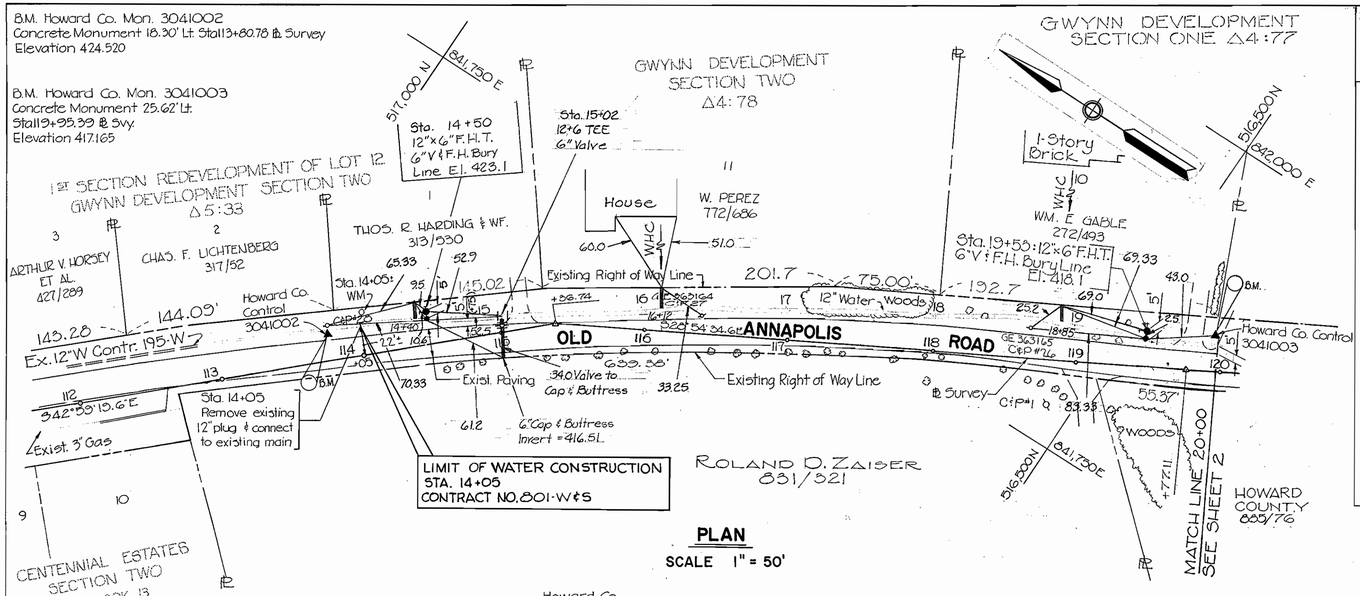
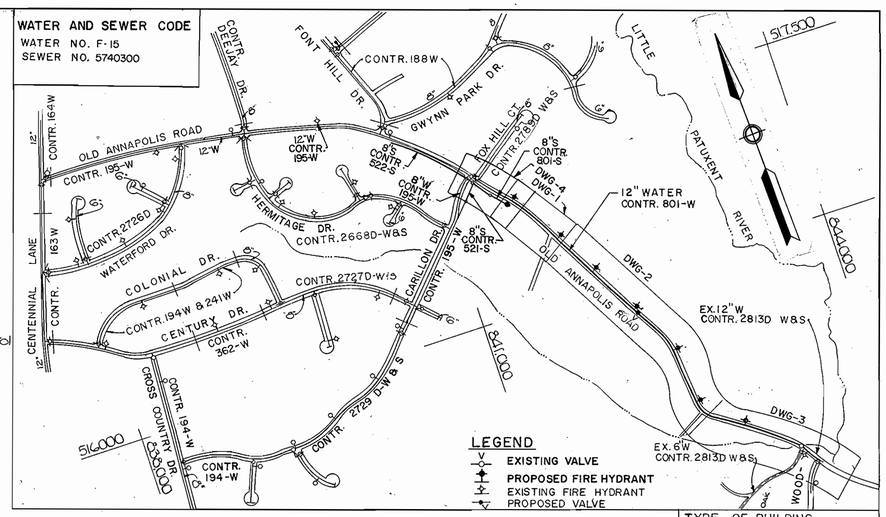
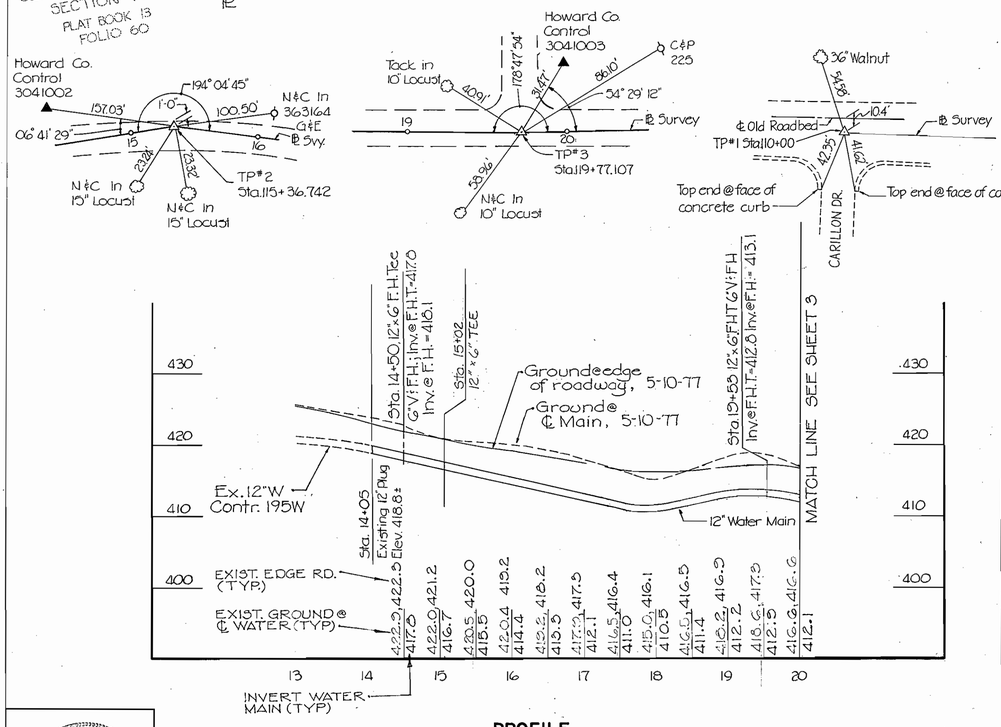




VICINITY MAP

Scale 1"=600'

TYPE OF BUILDING
NO. OF WHC 14
NO. OF SHC 1
DRAINAGE AREA - SAVAGE WWTP



PROFILE

SCALE: HOR. 1"= 100'
VERT. 1"= 10'

CONSTRUCTION STAKEOUT DATA			
WATER MAIN STATION	OFFSET FROM EDGE OF RD.	WATER MAIN STATION	OFFSET FROM EDGE OF RD.
14+05 -	4'	17+25	5.0'
14+25	9'	17+50	5.0
14+50	7.9'	17+75	5.3
14+75	5.8'	18+00	7.0
15+00	5.0'	18+25	10.0
15+25	5.0'	18+50	11.6
15+50	5.0'	18+75	12.1
15+75	5.0'	19+00	11.4
16+00	5.6'	19+25	9.9
16+25	7.2	19+50	6.6
16+50	7.5	19+75	5.7
16+75	6.7'	20+00	5.0
17+00	5.3		

QUANTITIES		As Built	Supplier
12" Water	3281	3281 L.F.	Griffin Pipe Co.
Fire Hydrants	7 ea.	7 ea.	Flow Industries
6" Water	35 L.F.	28.6 L.F.	Griffin Pipe Co.
12" Valve	1 ea.	1 ea.	Flow Industries
3/4" Copper Water Service	220 L.F.	243.3 L.F.	Flow Industries
2" Copper Water Service	30 L.F.	32 L.F.	Flow Industries
8" Sewer	170 L.F.	164.69 L.F.	John Mansville
Manhole	16 V.L.F.	18.2 V.L.F.	Atlantic Precast
6" Sewer House Connections	67 L.F.	67 L.F.	Certain-Teed Product

GENERAL NOTES

1. Approximate locations of existing mains are shown. The contractor shall take all the necessary precautions to protect the existing mains and services and maintain uninterrupted supply. Any damage incurred due to the contractor's operations shall be repaired immediately at the contractor's expense.
2. All pipe elevations shown are invert elevations.
3. The contractor shall locate existing utilities a minimum of two weeks in advance of construction operations in the vicinity of proposed utilities.
4. For all standard details see standards bound in specifications.
5. Clear all utilities by a minimum of 6". Clear all utility poles by 2'-0" or tunnel as required. Any costs incurred to the contractor for tunneling or bracing at poles shall be included in unit prices bid for excavation.
6. Contractor shall notify the following utilities or agencies at least five (5) days before starting work shown on these plans:

   Baltimore Gas & Electric Company - Underground Electric Distribution Engineering - "Damage Control" - 234-5691
   Baltimore Gas & Electric Company - Underground Gas Distribution Engineering - 559-0100
   Chesapeake & Potomac Telephone Company - 725-9976
   Miss Utility - 393-3648

7. 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.
8. 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.
9. All water mains to be C.I.P. or D.I.P. unless otherwise noted.
10. Top of all water mains to have a minimum of 3'-6" cover unless otherwise noted.
11. All valves shall be strapped to tees, where applicable, in accordance with standard details.
12. Buttress or anchor all water main fittings with concrete. See Standard details bound in the Specifications.
13. 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 Section 5-15 of the Standard Specifications.
14. Cost of strapping fire hydrants and valves to be included in the unit price bid for furnishing and installing fire hydrants.
15. All horizontal controls are based on Maryland State Coordinates.
16. All vertical controls are based on USGS Datum.
17. Contractor shall remove trees, stumps and roots along line of excavation as directed by the Engineer. Payment for such removal shall be included in the unit price bid for excavation and backfill for water and sewer mains.
18. All water house connections shall be constructed in accordance the Standards bound in the Specifications for inside meters.
19. Block all fittings with concrete, see Standards bound in the Specifications.
20. All sewer mains shall be C.S.P.X., V.C.P.X., or A.C.P. Class 2400 unless otherwise noted.
21. The contractor shall provide a pipe joint in each sewer main within 2'-0" of the exterior manhole walls.
22. All manholes shall be 4'-0" inside diameter.

As built 10-6-80

Kenneth L. Evans 4-3-80

James L. Gilig. 4/9/80
CHIEF-BUREAU OF UTILITIES DATE

THE WILSON T. BALLARD COMPANY
CONSULTING ENGINEERS
OWINGS MILLS MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Hugh F. Newman 4-10-80
DIRECTOR OF PUBLIC WORKS DATE

Richard J. Roy 4-9-80
CHIEF - BUREAU OF ENGINEERING DATE

CONTRACT NO. 801-W&S
W-7-8073
CAPITAL PROJECT NO. S-4-6030

PLAN AND PROFILE OF 12" WATER MAIN

OLD ANNAPOLIS ROAD WATER MAIN
S.E. OF CARILLON DR. TO OAK HILL DR.
ELECTION DISTRICT NO. 2

OLD ANNAPOLIS ROAD
PROJECT NO. W-7-8073
& S-4-6030
CONTRACT NO. 801-W&S

DRAWING NO. 1 OF 4

SCALE AS SHOWN

Designed: P.R.
Drafted: S.H.
Checked: K.L.E.

April 3, 1980

WS 801-WS/1

B.M. "A" = Boat Spike in C&P pole #21 on East Side of Old Annapolis Road Left Entrance to Howard Fruit Farm

GWYNN DEVELOPMENT SECTION ONE Δ4:77

DONALD M. COLE 272/286

H.R. MATTHEWS 273/216

JOSEPH C. ANELLO 273/437

LOWELL D. RAU 273/433

JOHN & IRENE P. IANNUZZI 273/435

SEE SHEET 1.

MATCH LINE STA. 20+00

MATCH LINE STA. 30+00

SEE DRWG. BELOW

Howard Co. Control 3041003

Existing Paving

Exist. Right of Way Line

Survey

S30°06'24"E 711.60

OLD ANNAPOLIS ROAD

HOWARD COUNTY 835/76

JOHN T. MASON JR. FRANCES W. MASON 276/575

EXTENSION OF HOUSE EXTENSION (TYP.)

STA 23+60 12"x6" F.H.T. 6"V.F.H. BURY LINE EL. 402.5

STA 23+60 12"x6" F.H.T. 6"V.F.H. BURY LINE ELEV. 393.0

STA. 22+62 (12"V)

R.R. Tie Retaining Wall

NOTE: WARP 12" WATER BETWEEN STA 23+00 AND STA 30+65 TO MISS C&P POLE #20 SEE STAKEOUT DATA.

NOTE: Grade around F.H. in accordance with Std. No. W-48. Transition to 2:1 slope as soon as possible. Sod slope.

PLAN
SCALE 1"=50'

CONSTRUCTION STAKEOUT DATA

WATER MAIN STATION	OFFSET FROM EDGE OF RD.	WATER MAIN STATION	OFFSET FROM EDGE OF RD.
29+00	5.0	31+25	3.7
29+25	6.0	31+50	2.8
29+50	8.2	31+75	2.4
29+75	10.1	32+00	2.0
30+00	10.3	32+25	2.4
30+25	9.3	32+50	2.9
30+50	6.6	32+75	3.6
30+75	5.0	33+00	4.6
31+00	4.7	33+10	5.0

CONSTRUCTION STAKEOUT DATA

WATER MAIN STATION	OFFSET FROM EDGE OF RD.
36+50	5.0'
36+75	4.7'
37+00	3.5'
37+25	2.6'
37+50	2.0'

GWYNN DEVELOPMENT SECTION ONE Δ4:77

SAM S MANGANIELLO 425/753

SAMUEL H. BRAN 561/703

PERRY R. MASON 539/555

REDEVELOPMENT OF LOT #1 GWYNN DEVELOPMENT SEC. 1

JOSEPH F. & DORIS M. CAVEY 467/48

RONNIE LEE & FLORENCE M. SMALLWOOD 875/471

JOHN T. MASON JR. & FRANCES W. MASON 276/575

STA. 30+00 12"x6" F.H.T. 6"V.F.H. BURY LINE EL. 375.9

STA. 38+00 12"x6" F.H.T. 6"V.F.H. BURY LINE EL. 342.4 See Detail 'A'

12" Water Line

Ball Valve El. at ℄ = 367.62

Sta. 131+89.66

Sta. 131+50

Sta. 138+50.92

SEE DRAWING ABOVE

SEE SHEET 3

stone drive Squirrel Hill Farm

PLAN
SCALE 1"=50'

DETAIL 'A'
STA. 38+00 ℄ 12" WATER
SCALE: 1"=5'

T.P. #4

T.P. #5 Sta. 138+50.92

Kenneth L. Evans 4-3-80

Jame L. Lytle 11/9/80
CHIEF-BUREAU OF UTILITIES — DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Geo. F. Neumeyer 4-10-80 — DIRECTOR OF PUBLIC WORKS — DATE
R. Lee Roop 4-9-80 — CHIEF-BUREAU OF ENGINEERING — DATE

THE WILSON T. BALLARD COMPANY
CONSULTING ENGINEERS
OWINGS MILLS MARYLAND

CONTRACT NO. 801-W&S
CAPITAL PROJECT NO. W-7-8073 S-4-6030

PLAN AND PROFILE OF 12" WATER MAIN

OLD ANNAPOLIS ROAD WATER MAIN
S.E. OF CARILLON DR. TO OAK HILL DR.
ELECTION DISTRICT NO. 2

OLD ANNAPOLIS ROAD
PROJECT NO. W-7-8073 & S-4-6030
CONTRACT NO. 801-W&S

DRAWING NO. 2 OF 4

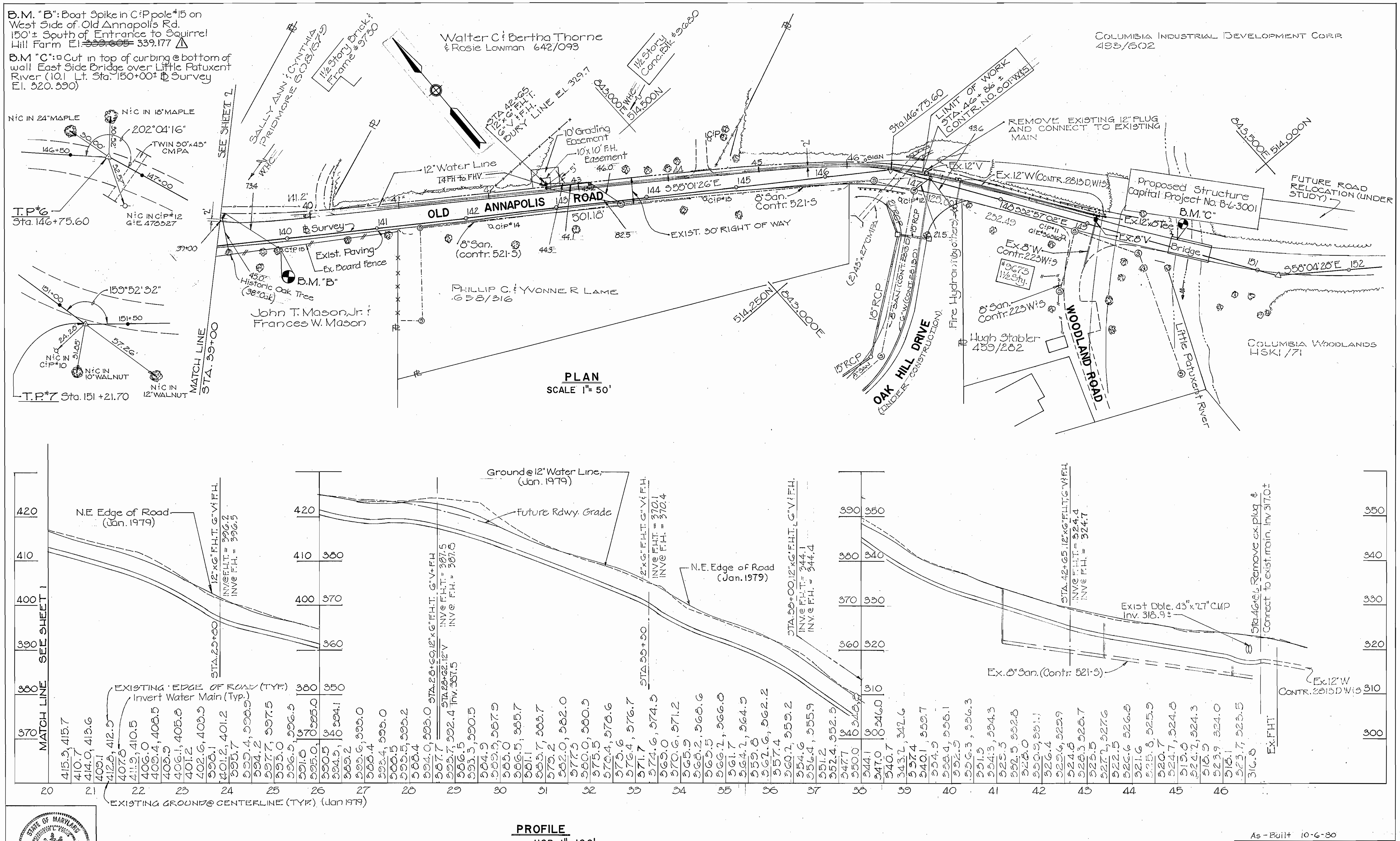
SCALE AS SHOWN

Designed: P.R.
Drafted: S.H.
Checked: K.L.E.

As built 10-6-80

April 3, 1980

WS 801-WS/2



As-Built 10-6-80

⚠ Corrected B.M. "B" Elev. 8-6-80

THE WILSON T. BALLARD COMPANY CONSULTING ENGINEERS OWINGS MILLS MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Chief-Bureau of Utilities 4/9/80 Director of Public Works 4-10-80 Chief-Bureau of Engineering 4-9-80	CONTRACT NO. 801-W&S CAPITAL PROJECT NO. W-7-8073 S-4-6030	PLAN AND PROFILE OF 12" WATER MAIN	OLD ANNAPOLIS ROAD WATER MAIN S.E. OF CARILLON DR. TO OAK HILL DR. ELECTION DISTRICT NO. 2	OLD ANNAPOLIS ROAD PROJECT NO. W-7-8073 & S-4-6030 CONTRACT NO. 801-W&S DRAWING NO. 3 OF 4 SCALE AS SHOWN Designed: P.R. Drafted: S.H. Checked: K.L.E.

Kenneth L. Evans 4-3-80

April 3, 1980

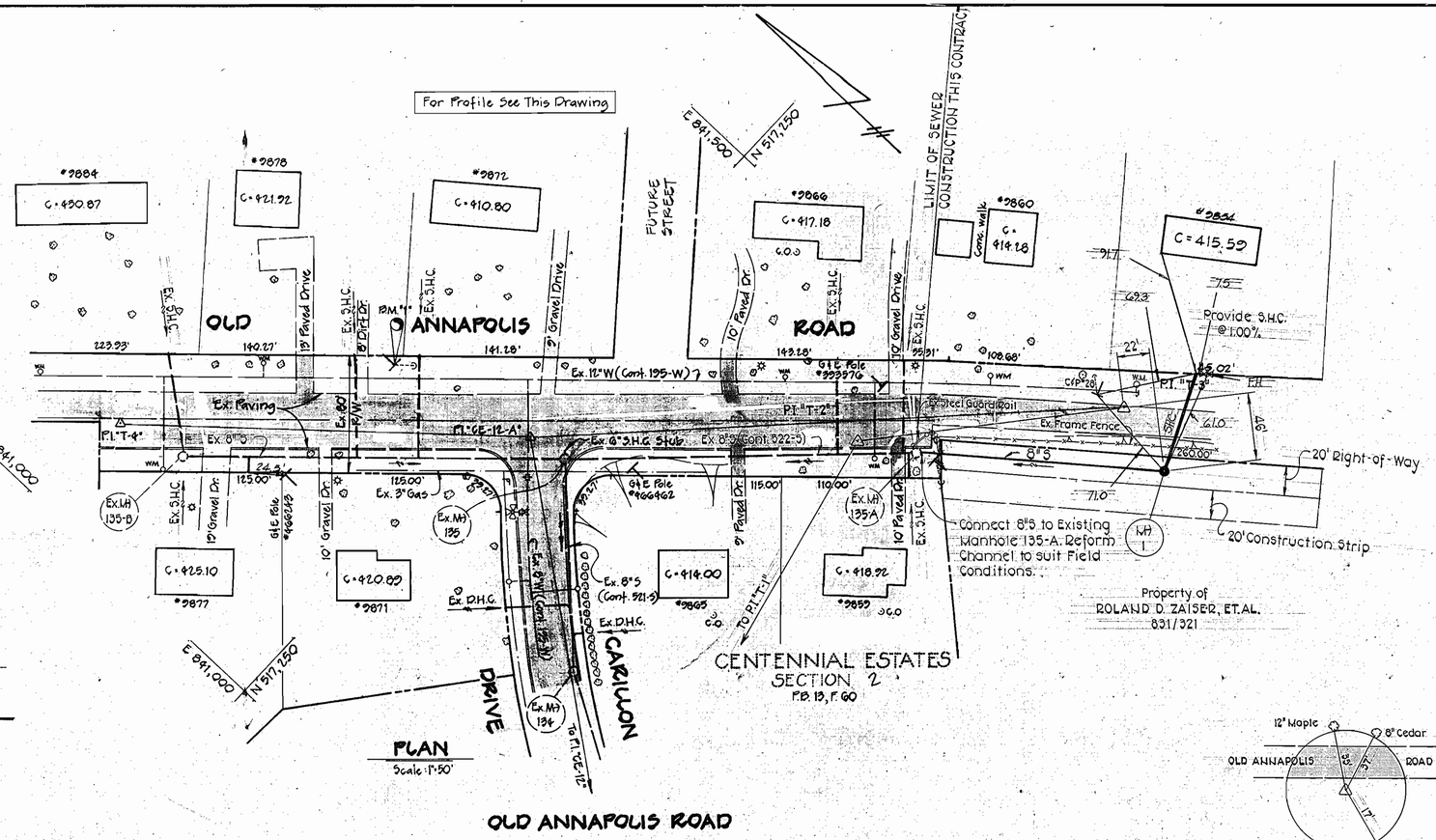
WS 801-WS/3

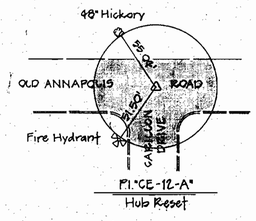
BENCH MARK

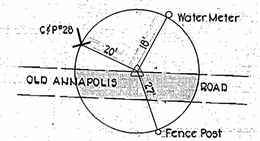
B.M. "1" Elev. 426.47

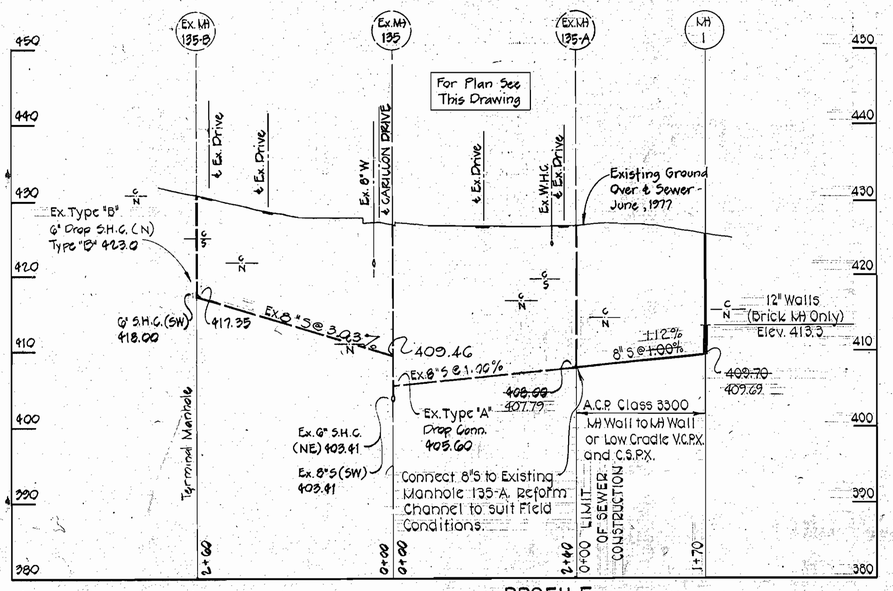
Galvanized Spike in Pole 102.8'± Northeast of Fl. "CE-12-A".

For Profile See This Drawing









PROFILE

Scale: Horiz. 1"=100'
Vert. 1"=10'

STATE OF MARYLAND CHARLES HENRY LEE No. 4555 PROFESSIONAL ENGINEER

Charles H. Lee

James L. Ellis — CHIEF - BUREAU OF UTILITIES — 4/9/80 DATE

Henry F. Niemann — DIRECTOR OF PUBLIC WORKS — 4-10-80 DATE

Donald E. Ray — CHIEF BUREAU OF ENGINEERING — 4-9-80 DATE

OLD ANNAPOLIS ROAD
WATER AND SEWER MAINS
CAPITAL PROJECT W-7-8073 & S-4-6030
CONTRACT NO. 801 W&S

As built 10-6-80

PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	CONTRACT NO. 801-W&S CAPITAL PROJECT NO. W-7-8073 S-4-6030	PLAN & PROFILE OF SEWER MAINS	OLD ANNAPOLIS ROAD WATER AND SEWER MAINS S.E. OF CARRILLON DRIVE TO OAK HILL DRIVE ELECTION DISTRICT NO. 2	DRAWING NO. 4 OF 4	SCALE AS SHOWN	Designed: REP Drafted: ARZ Checked: REP

W.O. 33-21, FB # 3321-10

K&E BALTIMORE 17 0483 PHOENIX MC 3343

MARCH 24, 1980

WS 801-WS/4