

CONTRACT 9W WATER MAIN EXTENSIONS

HOWARD COUNTY METROPOLITAN COMMISSION ELLICOTT CITY SUB-DISTRICT

Revised 1-7-53 10"W in Rogers Avenue South of Route #40 changed to 12"W

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION July 20, 1958 <small>DATE</small> <i>Carl W. Meyer</i> <small>CHAIRMAN</small>	CONTRACT NO. 9W	LOCATION MAP OF WATER MAIN EXTENSIONS	ELLICOTT CITY SUB-DISTRICT	DRAWING NO. 1 OF 16 SCALE AS SHOWN
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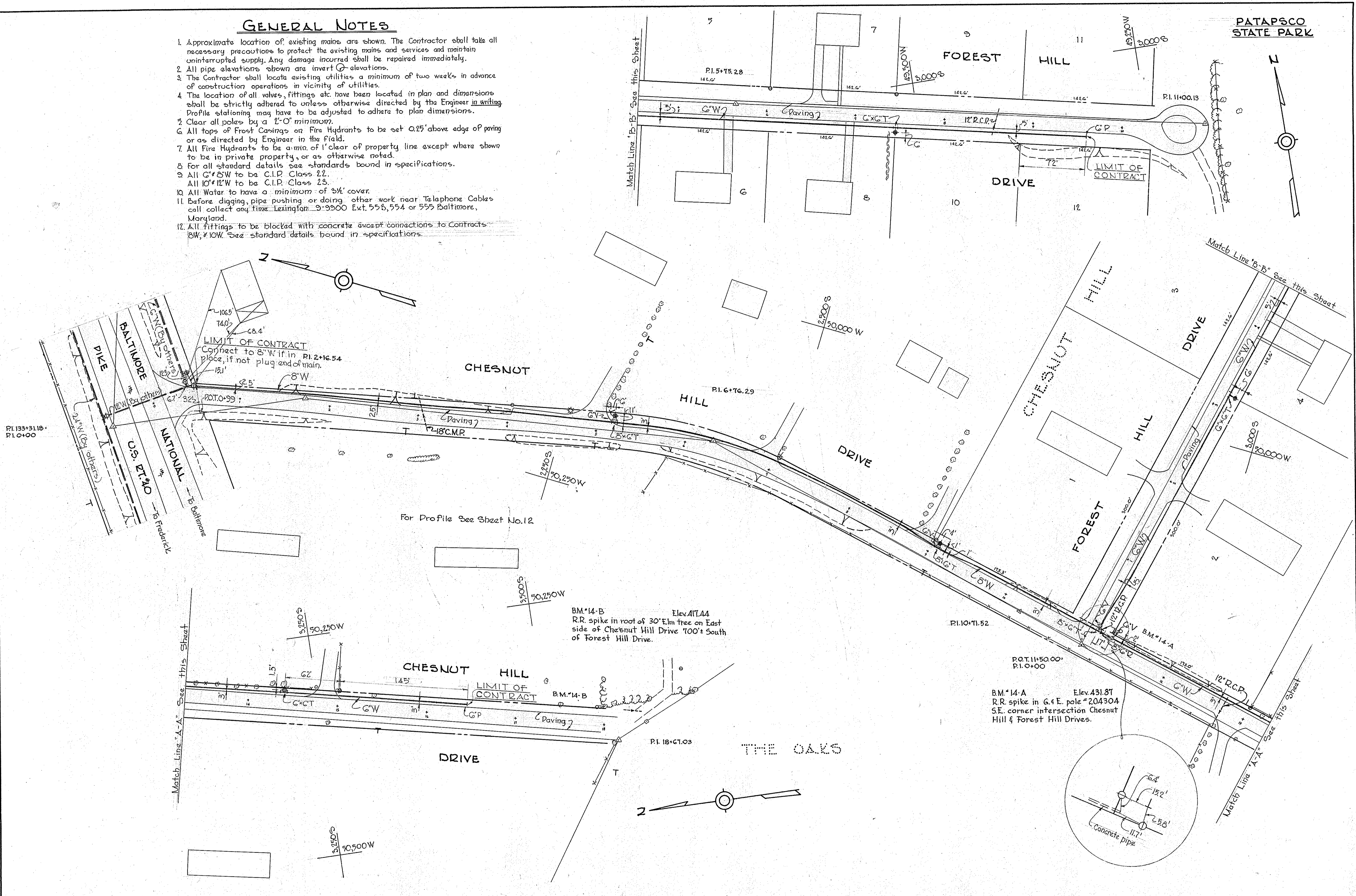
AS BUILT.

W.O. 4649

1/MS 9W/1

GENERAL NOTES

1. Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect the existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately.
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 vicinity of utilities.
4. The location of all valves, fittings etc. have been located in plan and dimensions shall be strictly adhered to unless otherwise directed by the Engineer in writing. Profile stationing may have to be adjusted to adhere to plan dimensions.
5. Clear all poles by a 2'-0" minimum.
6. All tops of Frost Casings or Fire Hydrants to be set 0.25' above edge of paving or as directed by Engineer in the field.
7. All Fire Hydrants to be a min. of 1' clear of property line except where shown to be in private property, or as otherwise noted.
8. For all standard details see standards bound in specifications.
9. All 6" SW to be C.I.P. Class 22.
All 10" SW to be C.I.P. Class 23.
10. All Water to have a minimum of 3/4" cover.
11. Before digging, pipe pushing or doing other work near Telephone Cables call collect any time Lexington 9-9900 Ext. 558, 554 or 555 Baltimore, Maryland.
12. All fittings to be blocked with concrete except connections to Contracts 8W, 9W. See standard details bound in specifications.



WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
July 30, 1958
DATE

CONTRACT NO. 9W

PLAN OF
WATER MAIN EXTENSIONS

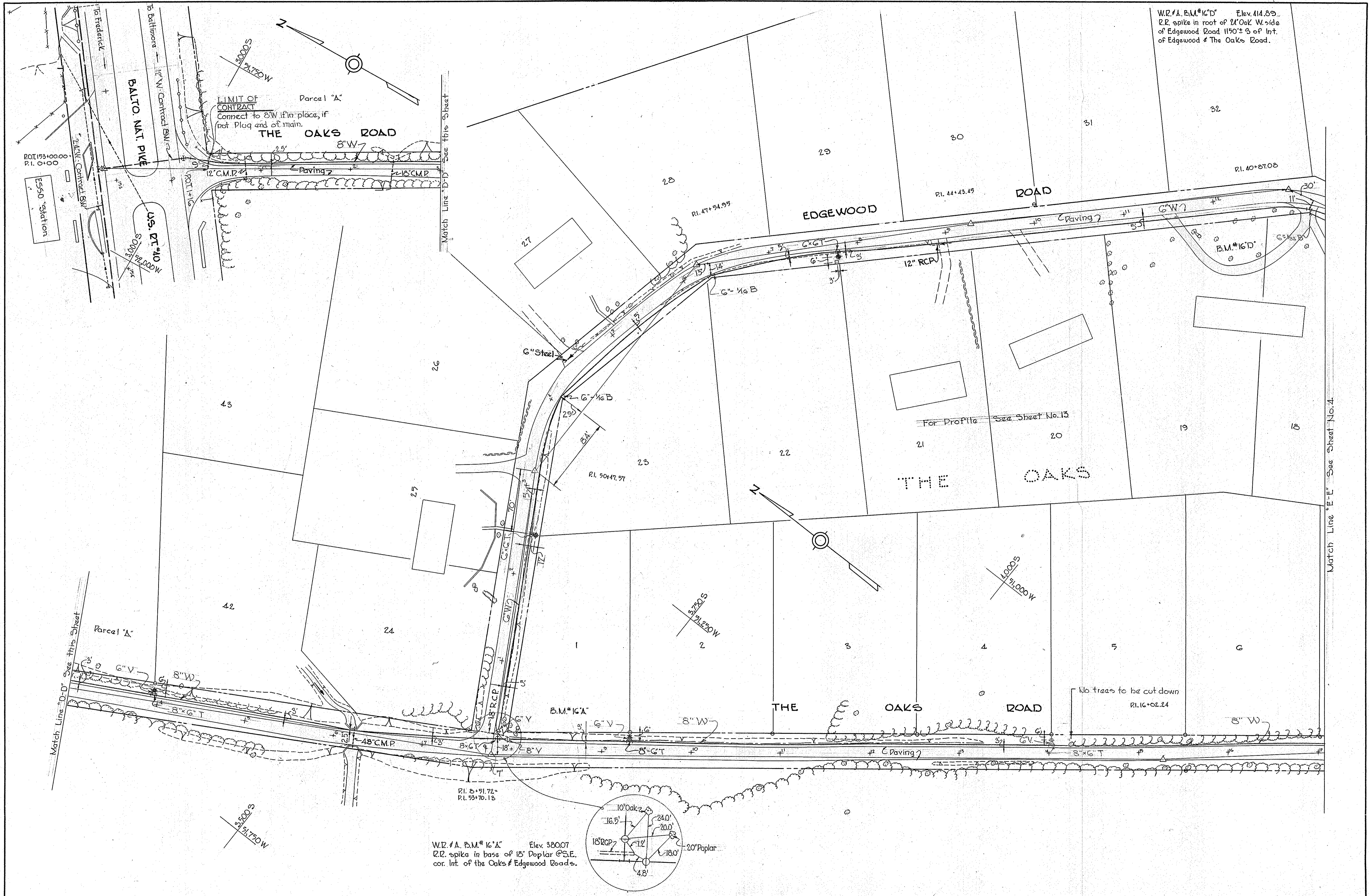
ELLCOTT CITY SUB-DISTRICT

DRAWING NO. 2 OF 16
SCALE 1"=50'

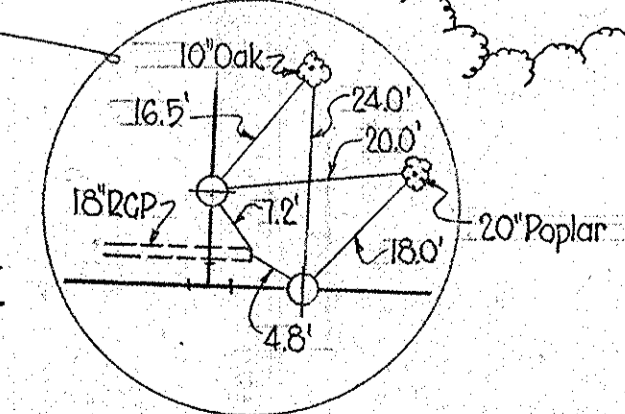
AS BUILT

WS 9W/2 SM

W.R.#A. B.M.#16'D' Elev. 414.89.
 R.R. spike in root of 24' Oak W. side
 of Edgewood Road 1150' S of Int.
 of Edgewood & The Oaks Road.



W.R.#A. B.M.#16'A' Elev. 380.07
 R.R. spike in base of 18' Poplar @ S.E.
 cor. Int. of the Oaks & Edgewood Roads.



WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE <u>July 30, 1958</u> <i>Carl W. Meyer</i> CHAIRMAN	CONTRACT NO. <u>9 W</u>	PLAN OF WATER MAIN EXTENSIONS	ELLICOTT CITY SUB-DISTRICT	DRAWING NO. <u>3</u> OF <u>16</u>	SCALE 1" = 50' AS BUILT
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W.O. 4649.

E/M 6 SM



W.P.A. B.M. #16'B' Elev. 451.95
 R.L. spike in base of 20' Poplar,
 W. side The Oaks Rd., 1800' ± S. of
 U.S. RT. #40.

W.P.A. B.M. #16'C' Elev. 336.29
 R.L. spike in base of G.F.E. pole 2026' 3/4
 S. side Edgewood Rd., 225' ± E. of
 Edgewood Rd.

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 DATE
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 CHAIRMAN

CONTRACT NO. 9W

PLAN OF
 WATER MAIN EXTENSIONS

ELLICOTT CITY SUB-DISTRICT

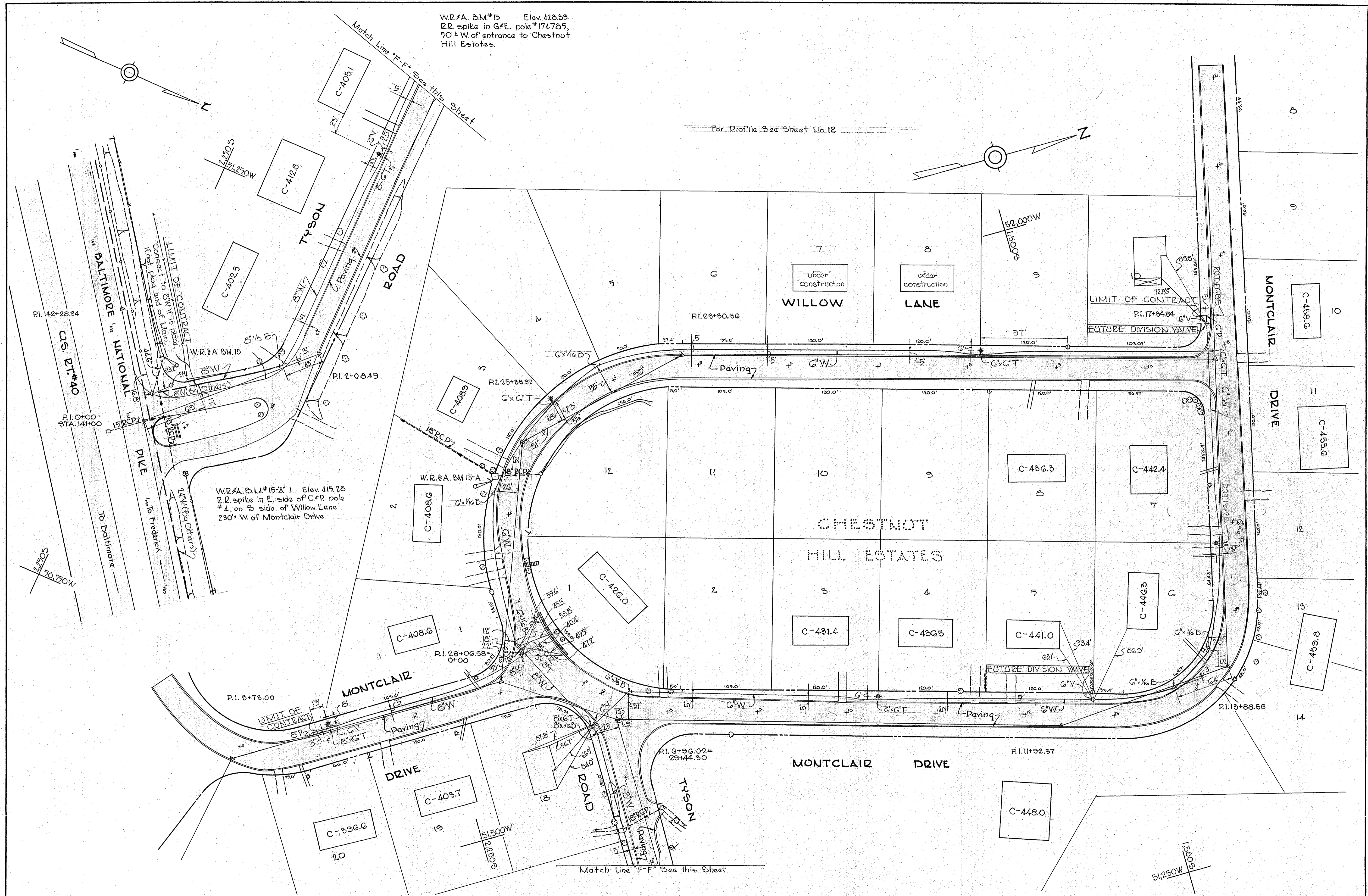
DRAWING NO. 4 OF 16
 SCALE 1" = 50'

AS BUILT

WS 9W/4

W.R. & B.M. #15 Elev. 428.53
 R.R. spike in G.E. pole #174785,
 70' ± W. of entrance to Chestnut
 Hill Estates.

For Profile See Sheet No. 12



WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 1304 ST. PAUL ST.
 BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
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CONTRACT NO. 9W

PLAN OF
 WATER MAIN EXTENSIONS

ELLCOTT CITY SUB-DISTRICT

DRAWING NO. 5 OF 16
 SCALE 1" = 50'
 25W35

W.O. 4G45

AS BUILT

WS 9W/5



W.P.A. B.M.#18 Elev. 414.84
 R.R. spike in G&E Pole #169057
 @ N.E. cor. Rt. 40 & Normandy Dr.

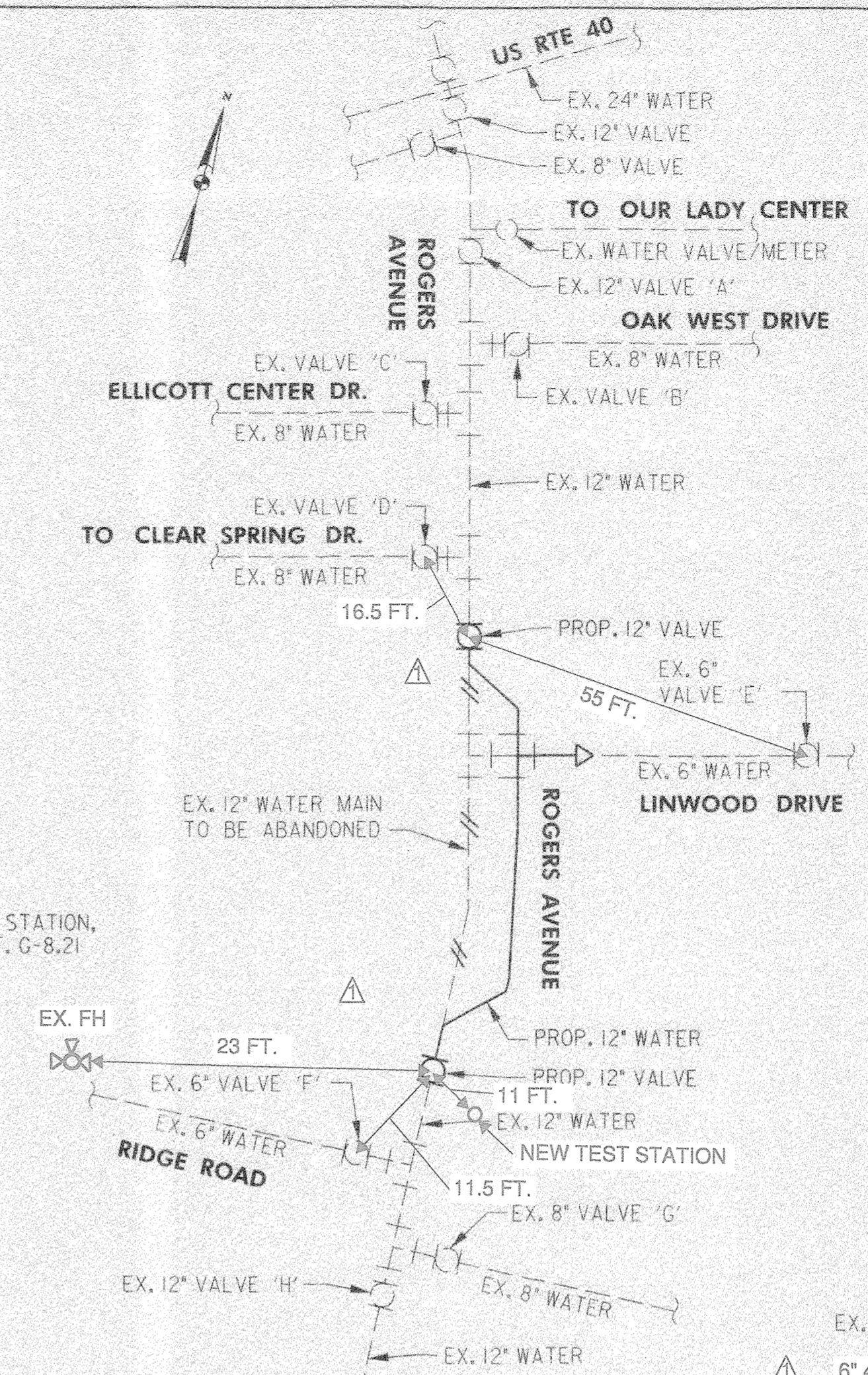
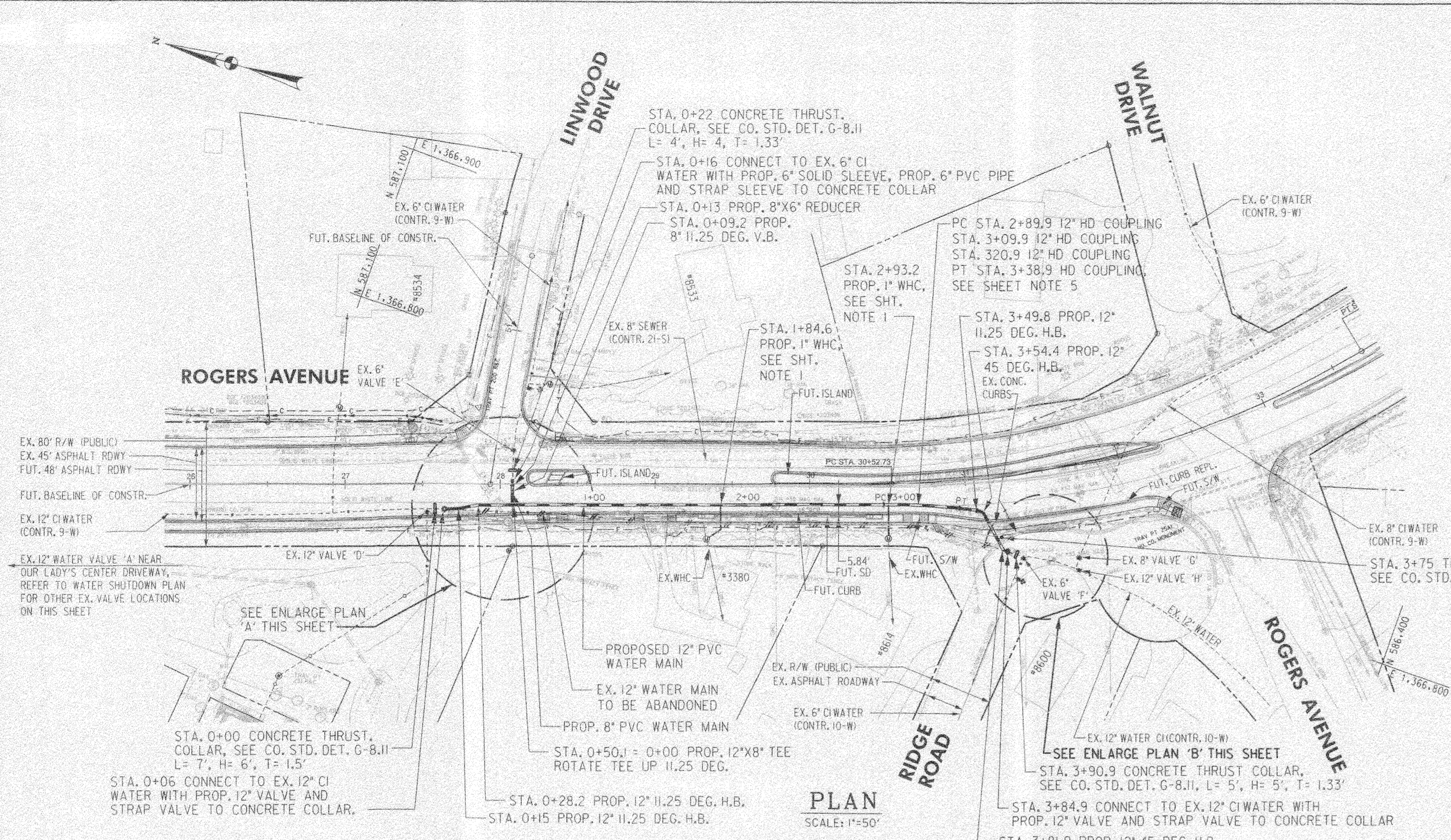
W.P.A. B.M.#18'A Elev. 479.66
 R.R. spike in root of 12" Beech N.E. cor. of
 Int. Normandy & Rosemar Drives

W.P.A. B.M.#18'B Elev. 422.17
 R.R. spike in base of 10" Beech
 S. side of Normandy Drive 600'
 S. of Int. Normandy & Rosemar Drives.

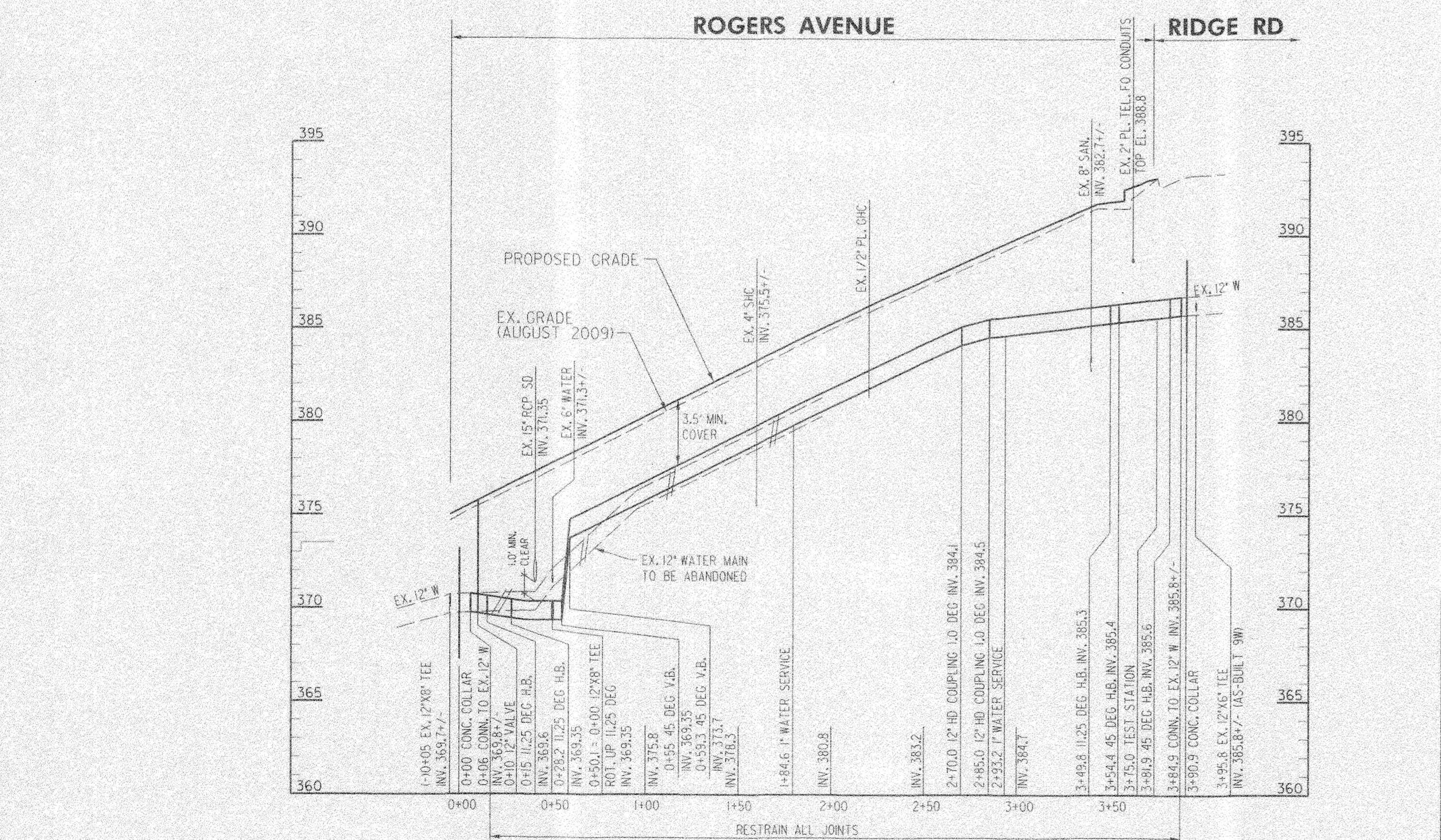
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION July 30, 1958 <i>Carl W. Meyer</i> CHAIRMAN	CONTRACT NO. 9W	PLAN OF WATER MAIN EXTENSIONS	ELICOTT CITY SUB-DISTRICT	DRAWING NO. 6 OF 16 SCALE 1"=50' AS BUILT
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W.O. 4649.

WS 9W/16



- ### SUGGESTED SEQUENCE OF CONSTRUCTION
- SUGGESTED WATER SEQUENCE OF CONSTRUCTION IS PROVIDED BELOW. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR DEVELOPING THEIR OWN SEQUENCE OF CONSTRUCTION TO THEIR OWN SATISFACTION WITH COUNTY REVIEW AND APPROVAL PRIOR TO START OF CONSTRUCTION.
1. NOTIFY AND COORDINATE WITH HOWARD COUNTY PRIOR TO CONSTRUCTION.
 2. INSTALL CONCRETE THRUST COLLARS AT STATIONS 0+00, 0+22 AND 3+90.9.
 3. INSTALL PROPOSED 12" WATER MAIN FROM STATION 0+20 TO 3+80 AND INSTALL TEMPORARY CAP AT STATIONS 0+20 AND 3+80. INSTALL 8" WATER MAIN FROM STATION 0+00 TO 0+09 AND INSTALL TEMPORARY CAP AT STATION 0+09.
 4. PRESSURE TEST, BACTERIA TEST AND DISINFECT PROPOSED WATER SYSTEM.
 5. VERIFY EXISTING 8" AND 12" WATER MAIN LOCATIONS, MATERIAL TYPE AND ROUNDNESS TO ENSURE PROPER CONNECTION METHOD PRIOR TO INSTALLING PROPOSED 8" SLEEVE AT STATION 0+16 AND 12" VALVES AT STATIONS 0+06 AND 3+84.9. REFER TO SHEET 1A FOR TIE IN TO EXISTING WATER MAIN NOTES.
 6. NOTIFY HOWARD COUNTY AND HOMEOWNERS 72 HOURS PRIOR TO SHUTDOWN THE EXISTING WATER SYSTEM. MAXIMUM SHUTDOWN IS 8 HOURS.
 7. CLOSE EXISTING VALVES A, B, C, D, E, F, G, AND H. INSTALL PROPOSED 8" WATER MAIN FROM STATION 0+09 TO 0+16. INSTALL 12" WATER MAIN FROM STATION 0+06 TO 0+20 AND FROM STATION 3+80 TO 3+84.9.
 8. UPON APPROVAL FROM HOWARD COUNTY, OPEN ALL VALVES TO PLACE PROPOSED MAIN IN SERVICE.
 9. INSTALL PROPOSED WATER SERVICES AND WATER METER SETTINGS AND CONNECT TO EXISTING WATER SERVICES.
 10. RESTORE AREA.



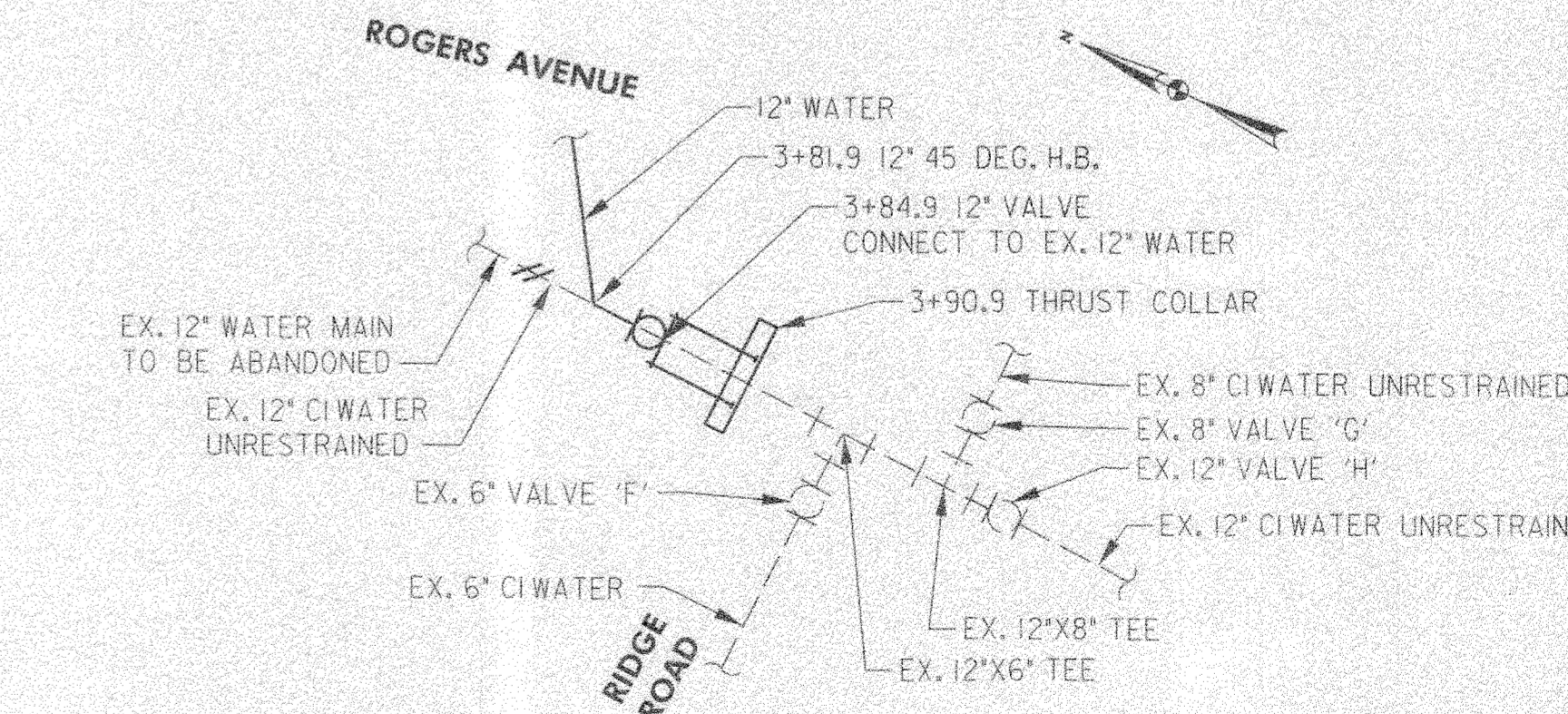
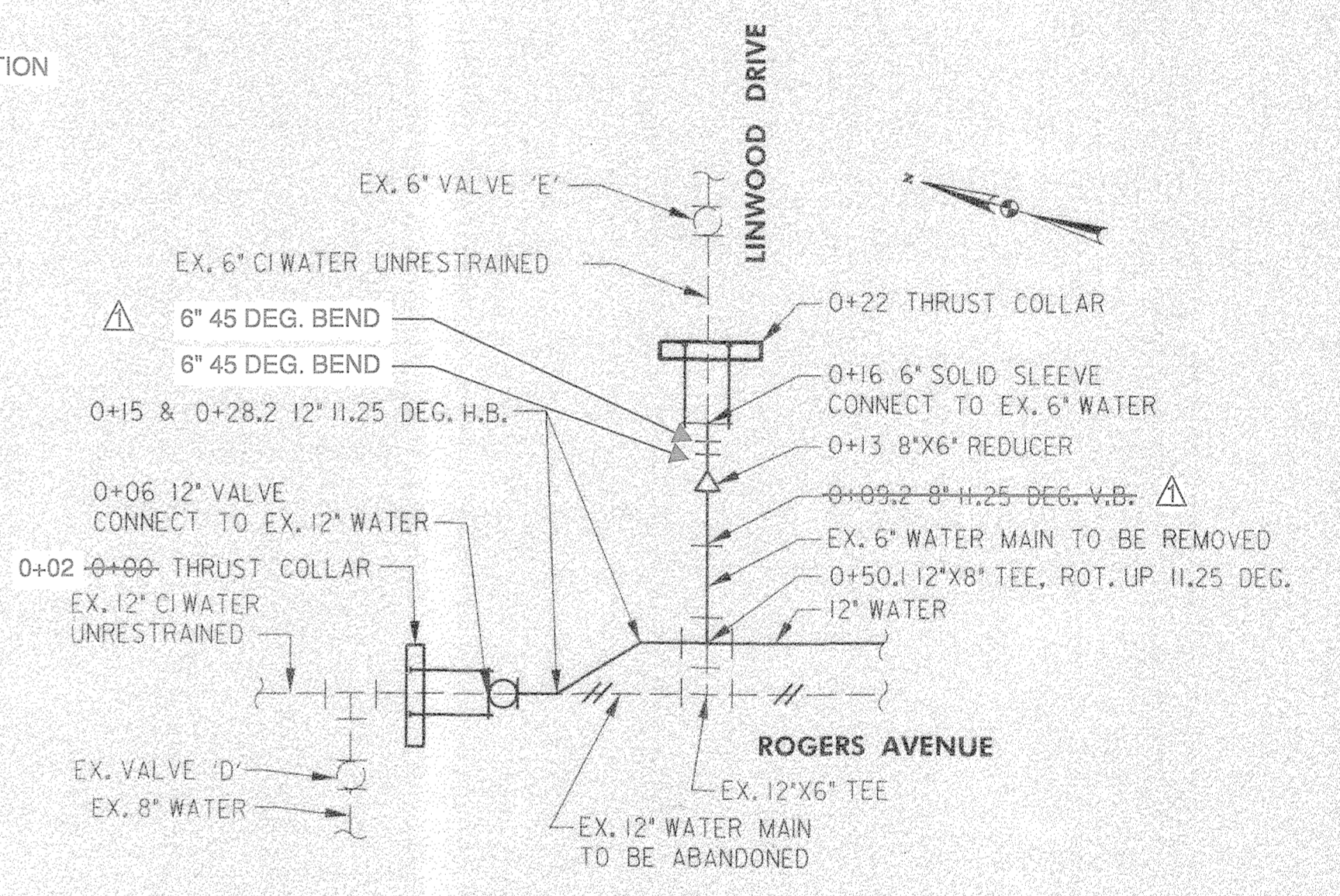
SHEET NOTES

1. CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF THE EXISTING WATER SERVICES AND EXISTING WATER METERS TO BE REPLACED PRIOR TO INSTALLING PROPOSED WATER SERVICE TO HOUSES 3380 AND 8614 AS SHOWN ON PLAN.
2. ALL PIPES, BENDS AND TEE JOINTS ON THE PROPOSED WATER MAIN SHALL BE RESTRAINED.
3. FOR PROPOSED PIPE TRENCH, REFER TO STANDARD DETAIL G-212. FOR UTILITY TRENCH REPAIRING, REFER TO STANDARD DETAIL G-4.01. SAW CUT EXISTING PAVEMENT FULL DEPTH TO THE TRENCH WIDTH ONLY. THE 2'-0" OVERCUT AND MILL AND OVERLAY ARE NOT REQUIRED.
4. FUTURE ROGERS AVENUE ROADWAY IMPROVEMENT SHOWN ON PLAN WILL BE CONSTRUCTED BY OTHERS UNDER CAPITOL PROJECT No. J4170.
5. CONTRACTOR SHALL DEFLECT EACH HD COUPLING TO ABOUT A TOTAL OF 2.25 DEGREES BETWEEN STATION 2+89.9 TO 3+38.9. REFER TO GENERAL NOTES H AND I2 ON SHEET 1A.

EROSION & SEDIMENT CONTROL NOTES

1. INSTALLATION OF THE WATER MAIN SHALL BE LIMITED TO THAT WHICH CAN BE BACKFILLED AND STABILIZED EACH WORK DAY.
2. STOCKPILING WILL NOT BE ALLOWED ON-SITE WITHOUT PRIOR APPROVAL FROM INSPECTOR AND ENGINEER.
3. ALL DISTURBED AREAS SHALL BE RESTORED TO A CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED PRIOR TO CONSTRUCTION.

WATER STATION	FITTING	INVERT	NORTHING	EASTING
0+00	CONC. COLLAR	369.8+/-	587,009.05	1,366,687.59
0+15.0	12" 11.25 H.B.	369.6	586,994.91	1,366,692.69
0+28.2	12" 11.25 H.B.	369.35	586,983.64	1,366,699.45
2+89.9	PC CURVE	384.7	586,737.44	1,366,787.99
3+38.9	PT CURVE	386.5	586,690.60	1,366,802.30
3+49.8	12" 11.25 H.B.	385.3	586,680.03	1,366,804.96
3+54.4	12" 45 H.B.	385.4	586,675.44	1,366,805.20
3+81.9	12" 45 H.B.	385.6	586,655.05	1,366,786.79
3+90.9	CONC. COLLAR	385.8+/-	586,645.99	1,366,787.23
0+22.0	CONC. COLLAR	373.3+/-	586,970.58	1,366,727.73

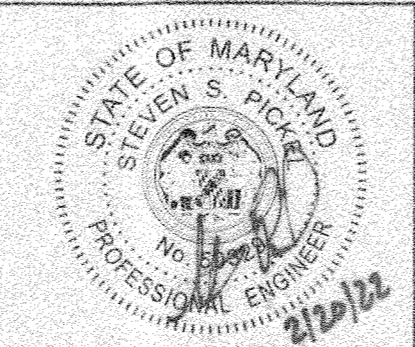
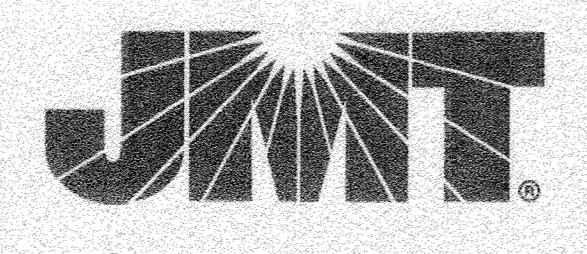


DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

27.2023
DIRECTOR, PUBLIC WORKS

02-23-23
CHIEF, BUREAU OF ENGINEERING

2-23-23
CHIEF, BUREAU OF UTILITIES



DES:	RAF	BY NO.:	SSP	NO.:	AS-BUILT	DATE:	10-10-2023
DRN:	RAF	CHK:	SSP	DATE:	02/15/2023		

WATER PLAN AND PROFILE

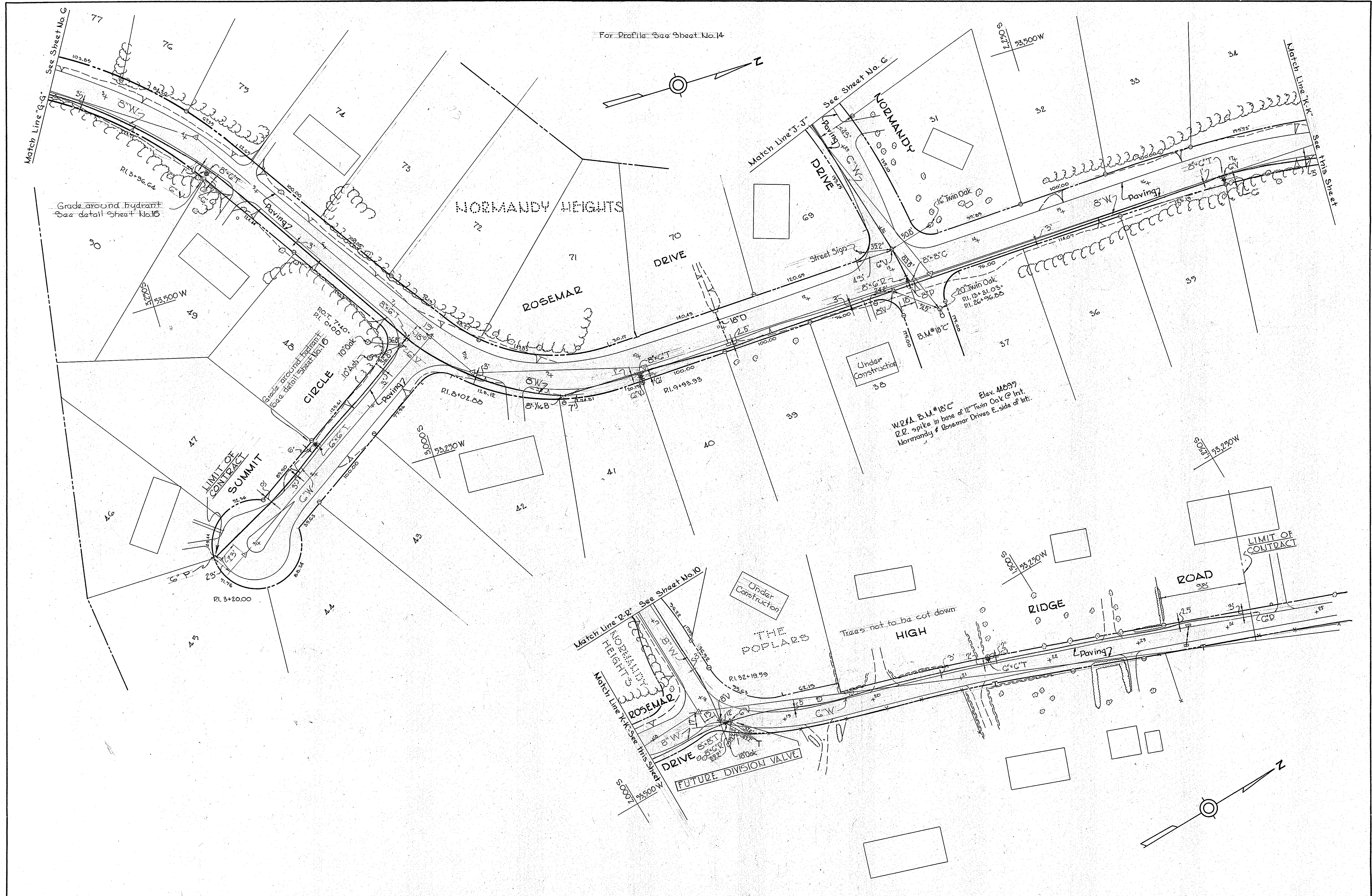
SCALE: 1"=50'

ROGERS AVENUE WATER RELOCATION

CAPITAL PROJECT No. J4170
CONTRACT No. 9-W

ELECTION DISTRICT 1
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET SA OF 16



For Profile See Sheet No. 14

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
DATE July 30, 1958
Carl W. Meyer
CHAIRMAN

CONTRACT NO. 9W

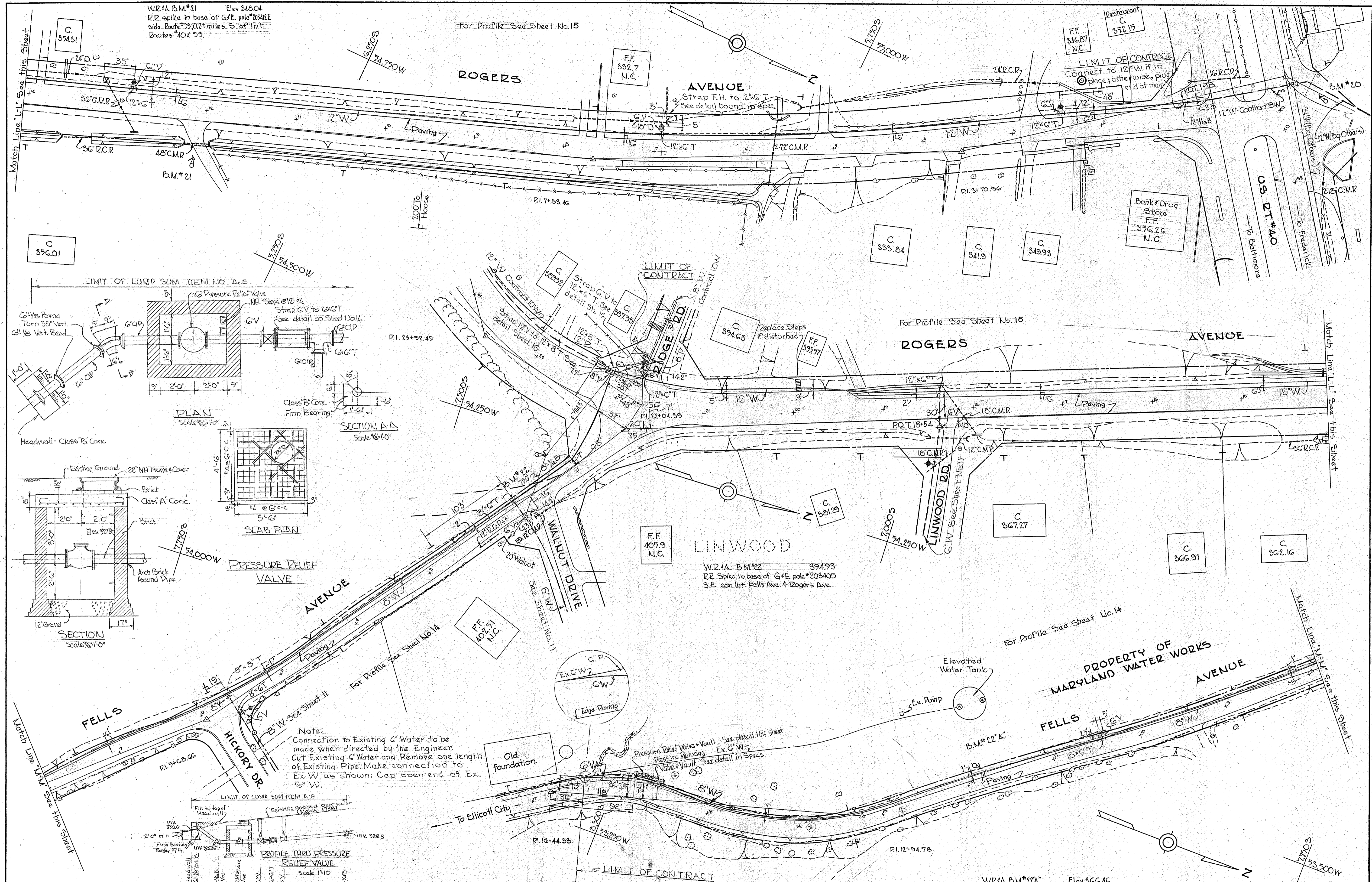
PLAN OF
WATER MAIN EXTENSIONS

ELLICOTT CITY SUB-DISTRICT

DRAWING NO. 7 OF 16
SCALE 1"=50'

AS BUILT

1/WS 9W/7



WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 1304 ST. PAUL ST.
 BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
 July 30, 1958
 DATE
 [Signature]
 CHAIRMAN

CONTRACT NO. 9W

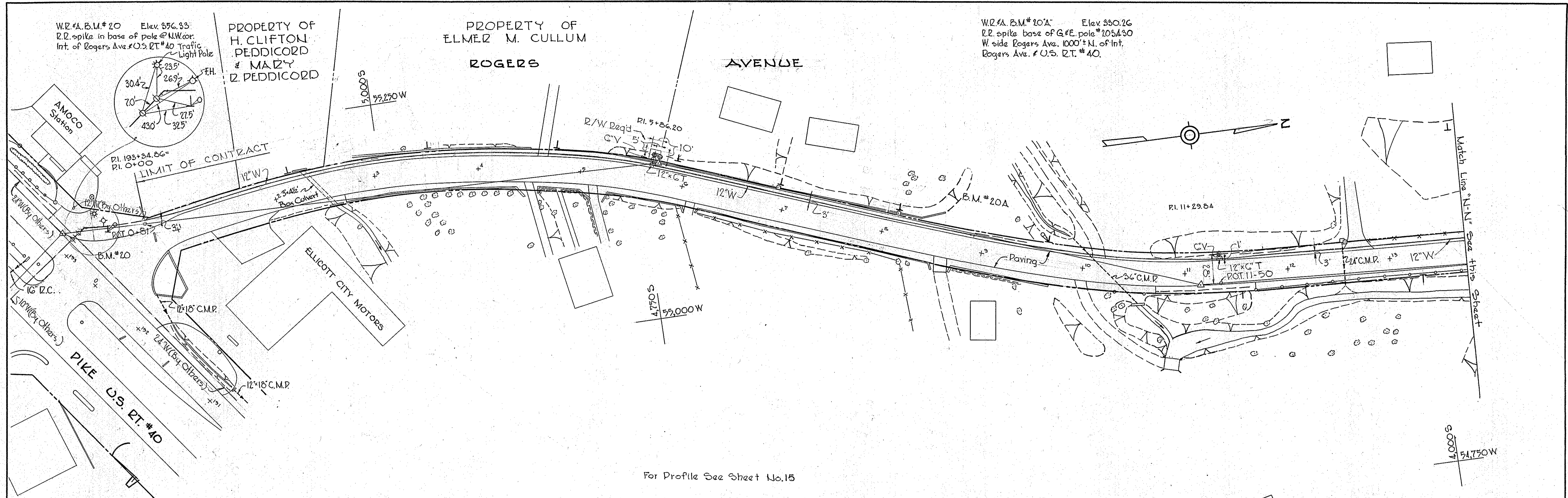
PLAN OF
 WATER MAIN EXTENSIONS

ELLCOTT CITY SUB-DISTRICT

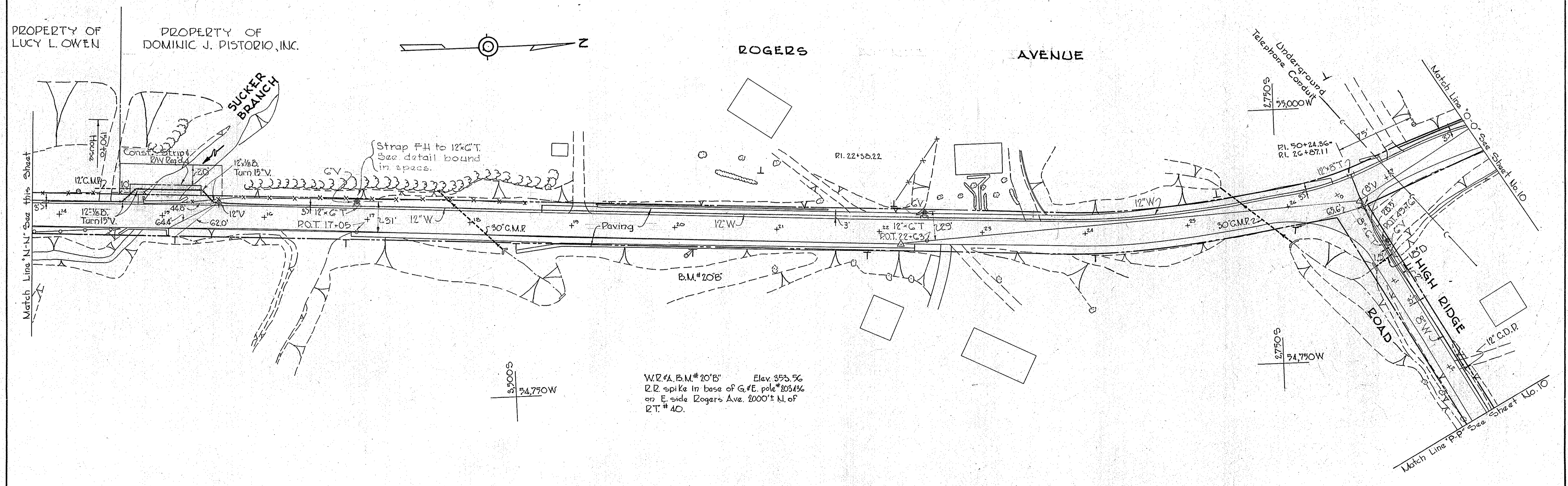
DRAWING NO. 8 OF 16
 SCALE 1"=50'

AS BUILT.

WS 9W/8



For Profile See Sheet No. 15



WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION July 30, 1958 <i>Carl W. Meyer</i> CHAIRMAN	CONTRACT NO. 9W	PLAN OF WATER MAIN EXTENSIONS	ELLICOTT CITY SUB-DISTRICT	DRAWING NO. 9 OF 16 SCALE 1" = 50' AS BUILT
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W.O. 4649.

61M6 SM

W.R.#A.B.M.#20'C Elev. 386.65
 R.R. spike in base of G.E. pole #205441
 W. Side Rogers Ave. 3000'± of U.S.R.T.#40

For Profile See Sheet No. 15

LIMIT OF CONTRACT
ROGERS

AVENUE

ROGERS AVENUE

W.R.#A.B.M.#20'D Elev. 447.96
 R.R. spike in base of G.E. pole #205449
 E. side Rogers Ave. 4000'± N. U.S.R.T.#40

For Profile See Sheet No. 14

HIGH RIDGE ROAD

W.R.#A.B.M.#18'D Elev. 442.18
 R.R. spike in base of G.E. pole #100585
 N. side of High Ridge Rd. 1950'± E. of
 Int. of High Ridge Rd. & Rogers Ave.

W.R.#A.B.M.#18'E Elev. 396.58
 R.R. spike in base of G.E. pole #100581
 N. Side High Ridge Rd. 450'± E. of Int.
 of High Ridge Rd. & Rogers Ave.

Revised 2-23-59 Valve added
 at 10+00 High Ridge Road

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 BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
 DATE July 30, 1958
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 CHAIRMAN

CONTRACT NO. 9W

PLAN OF
 WATER MAIN EXTENSIONS

ELLICOTT CITY SUB-DISTRICT

DRAWING NO. 10
 OF 16

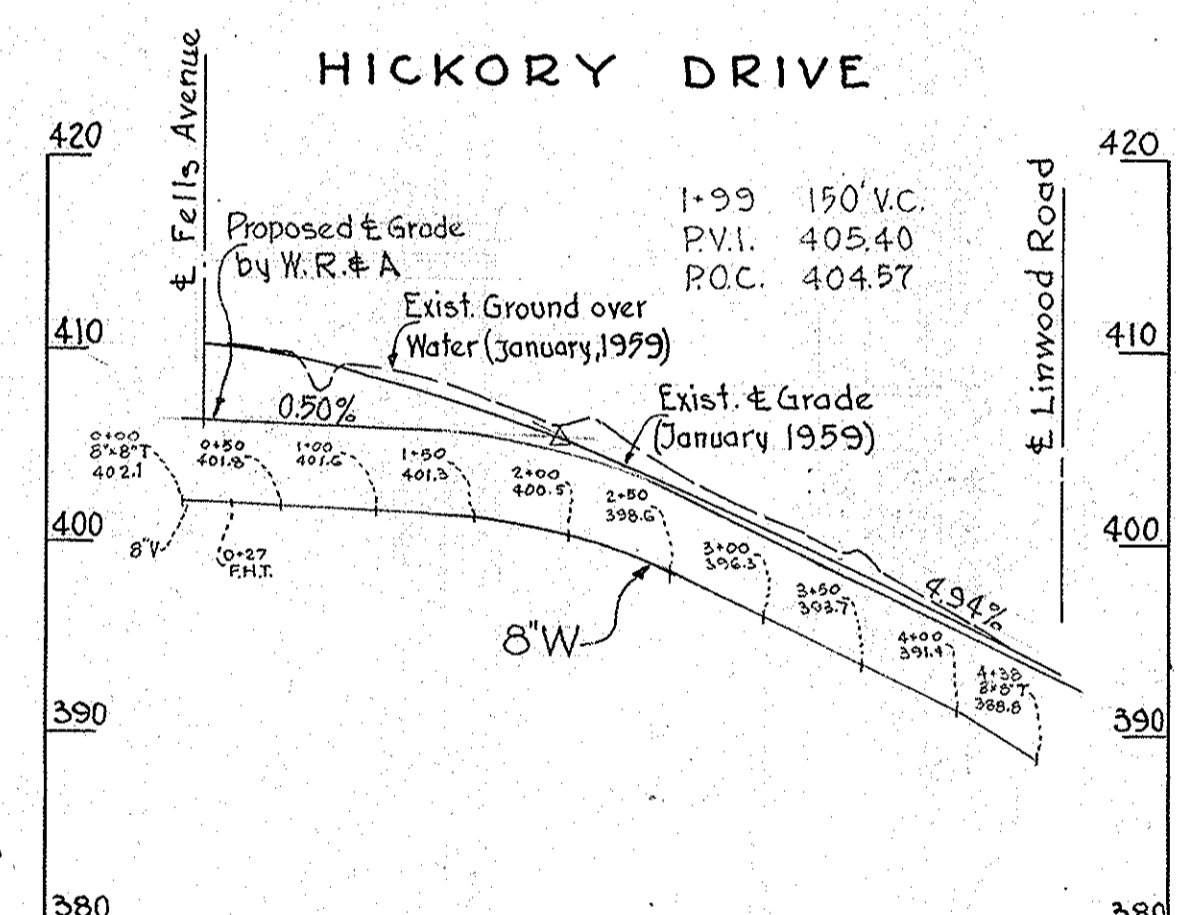
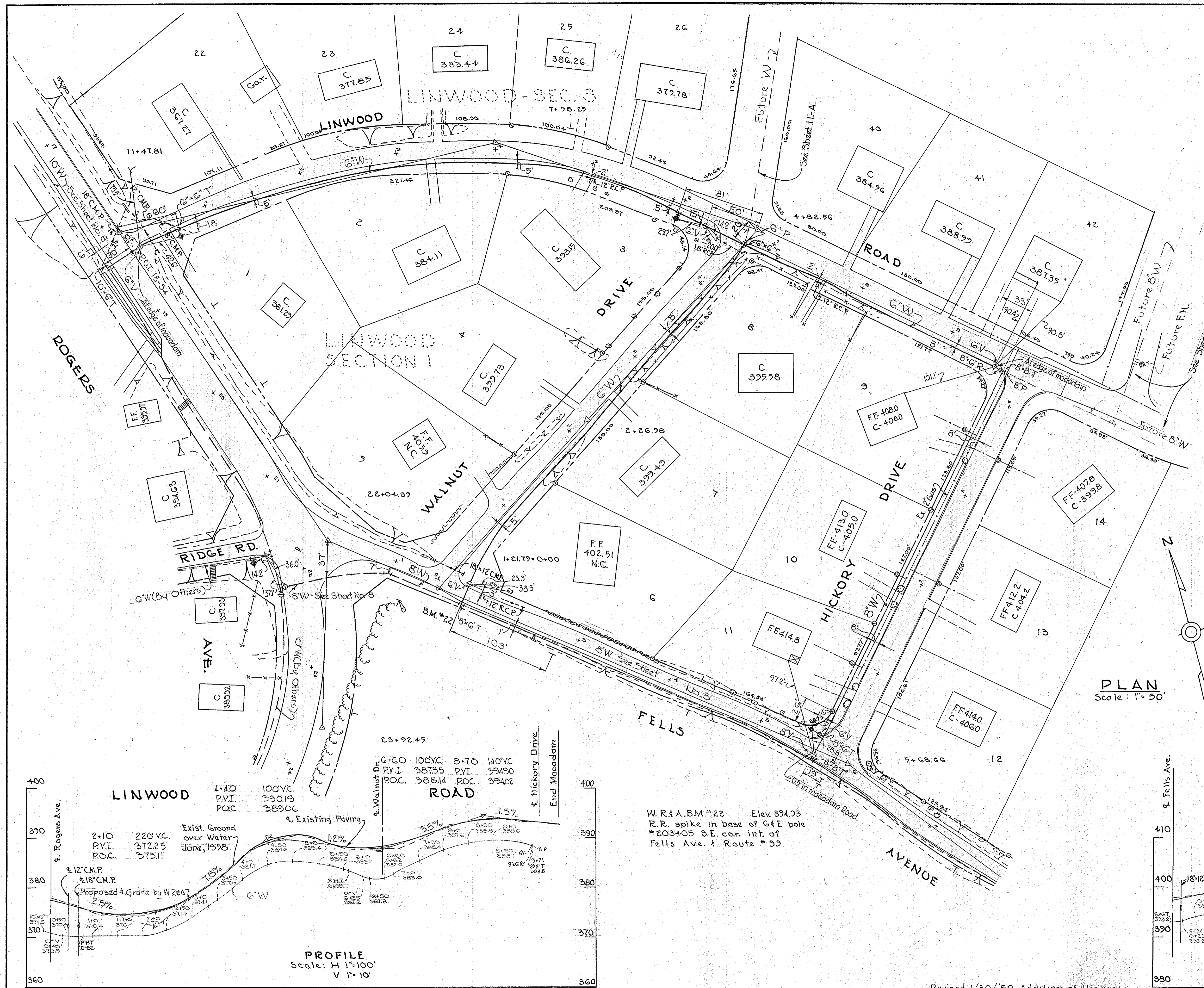
SCALE
 1" = 50'

AS BUILT

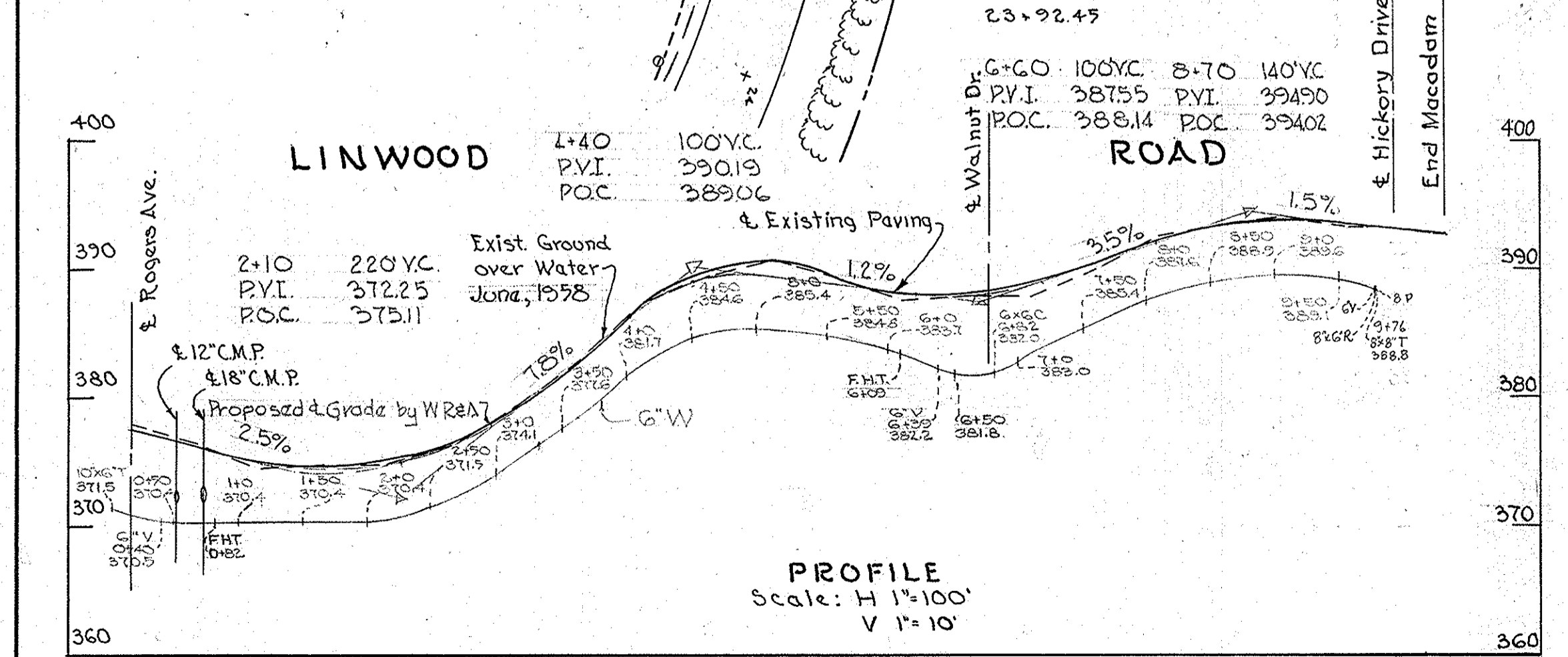
W.O.4649.

K. ELLIOTT CO. #70182 11-58 100

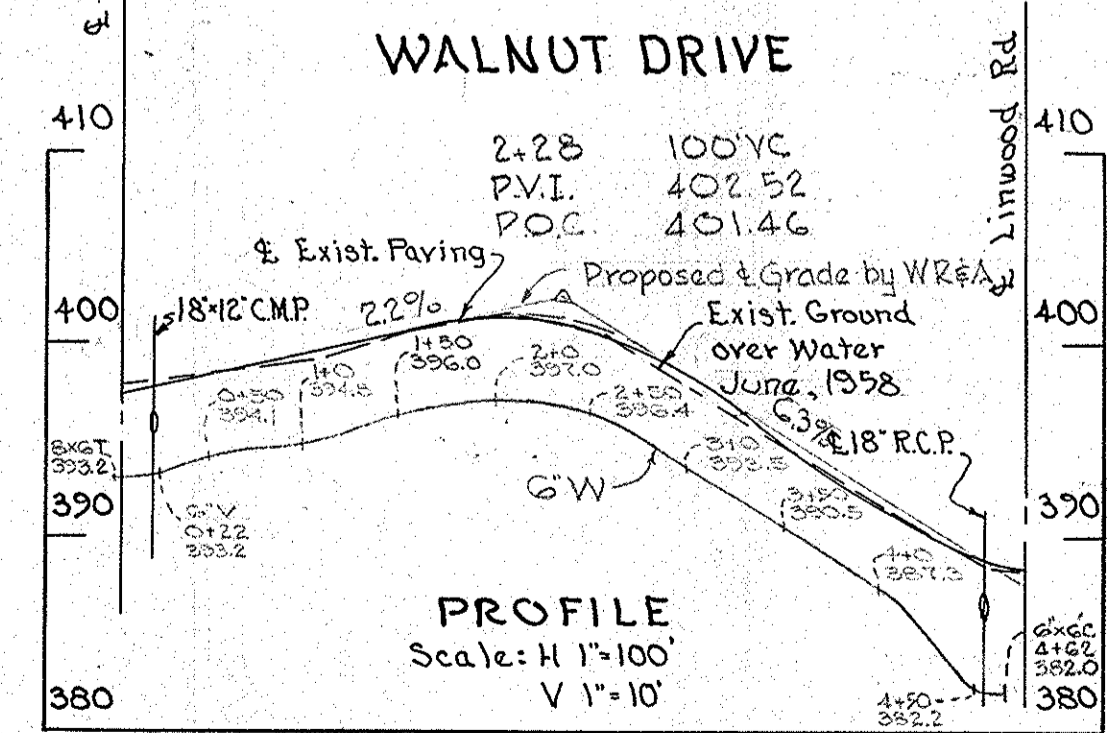
WS 9W/10



HICKORY DRIVE
 PROFILE
 Scale: Hor. 1"=100'
 Vert. 1"=10'



LINWOOD ROAD
 PROFILE
 Scale: H 1"=100'
 V 1"=10'



WALNUT DRIVE
 PROFILE
 Scale: H 1"=100'
 V 1"=10'

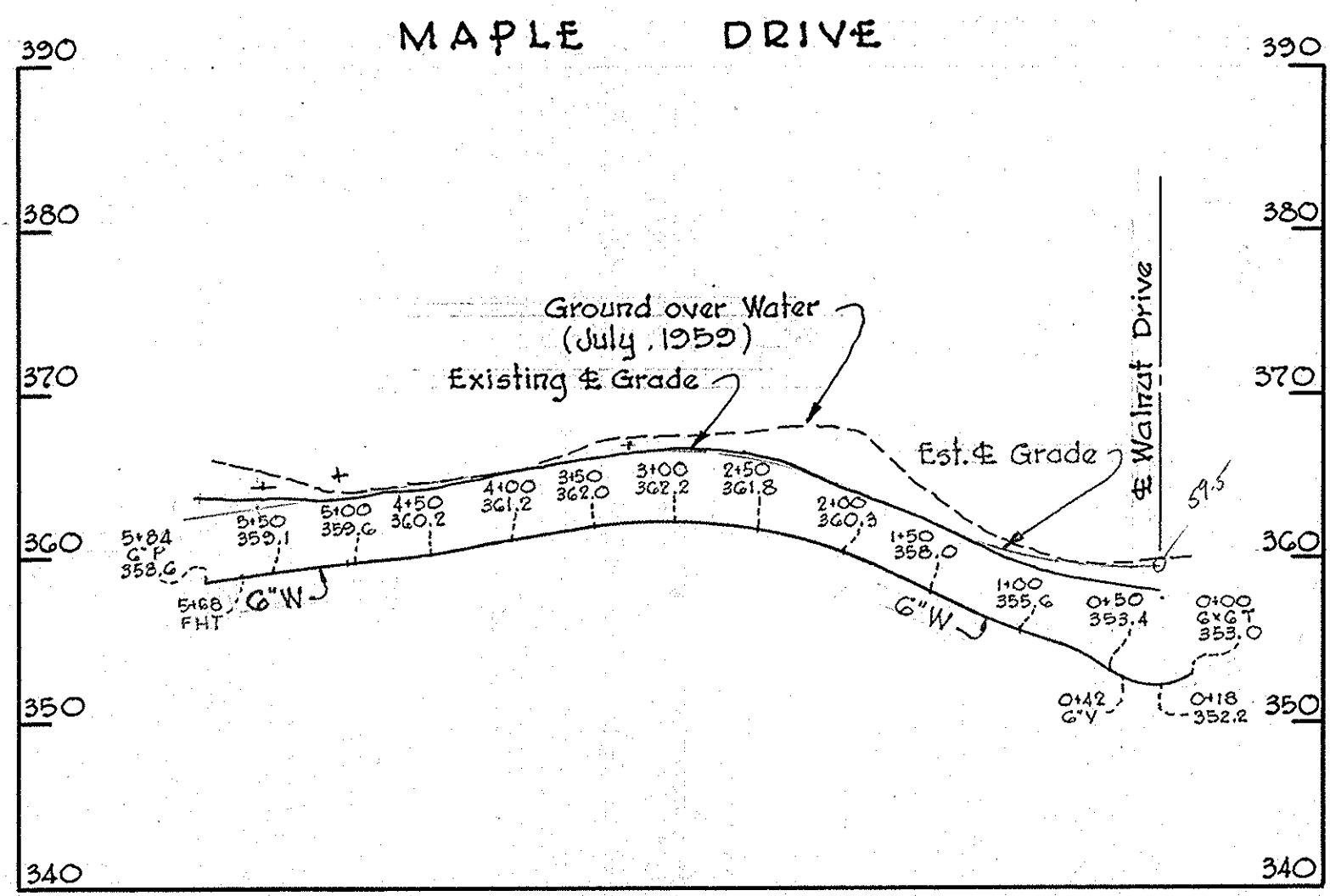
W.R.# A. B.M. #22 Elev. 394.53
 R.R. spike in base of G&E pole
 #203405 S.E. cor. int. of
 Fells Ave. & Route #33

Revised 1/30/59 Addition of Hickory Drive Plan and Profile.

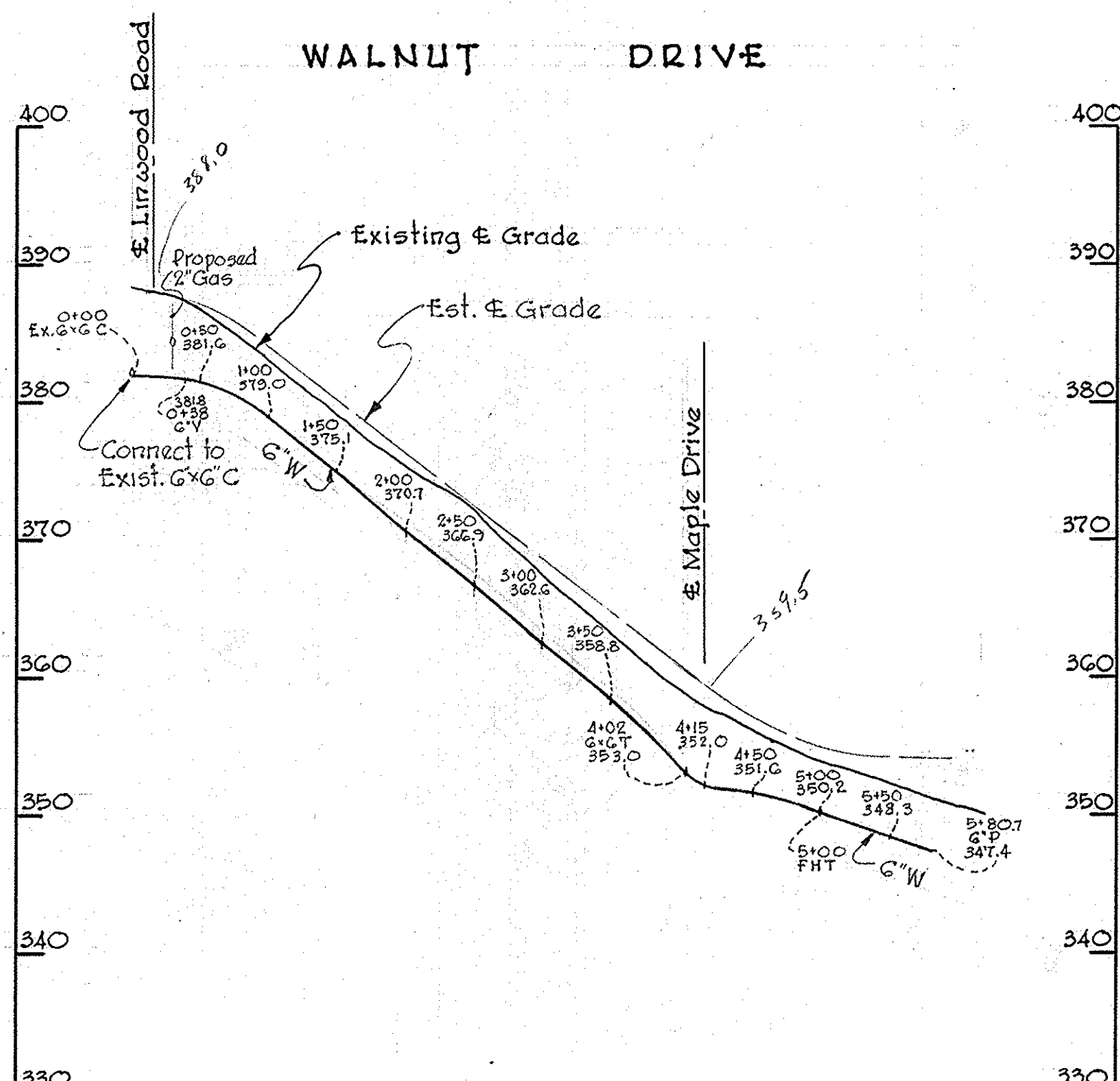
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION July 30, 1958 DATE <i>Carl W. Meyer</i> CHAIRMAN	CONTRACT NO. 9W	PLAN AND PROFILE OF WATER MAIN EXTENSIONS	ELLICOTT CITY SUB-DISTRICT	DRAWING NO. 11	SCALE AS SHOWN
					OF 16	AS BUILT

WO.4649

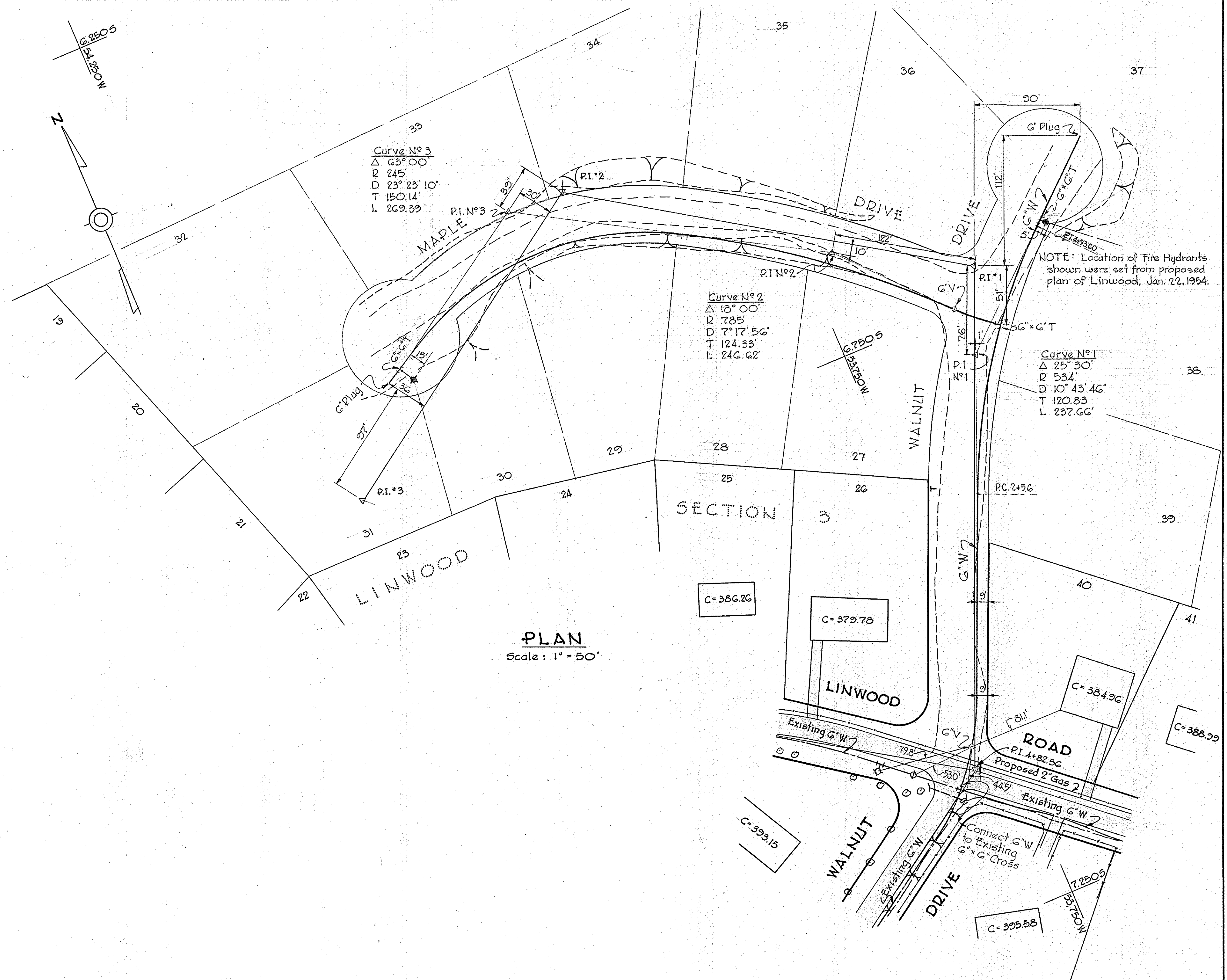
11/16 SM



PROFILE
 Scale: H = 1" = 100'
 V = 1" = 10'



PROFILE
 Scale: H = 1" = 100'
 V = 1" = 10'



PLAN
 Scale: 1" = 50'

NOTE: Location of Fire Hydrants shown were set from proposed plan of Linwood, Jan. 22, 1954.

W.R. & A. BM*22 Elev. 354.93
 Railroad spike in base of G & E pole * 203405
 Southeast corner intersection of Falls Avenue and Route No 23

WHITMAN, REQUARDT & ASSOCIATES
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 BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
 DATE _____
 CHAIRMAN

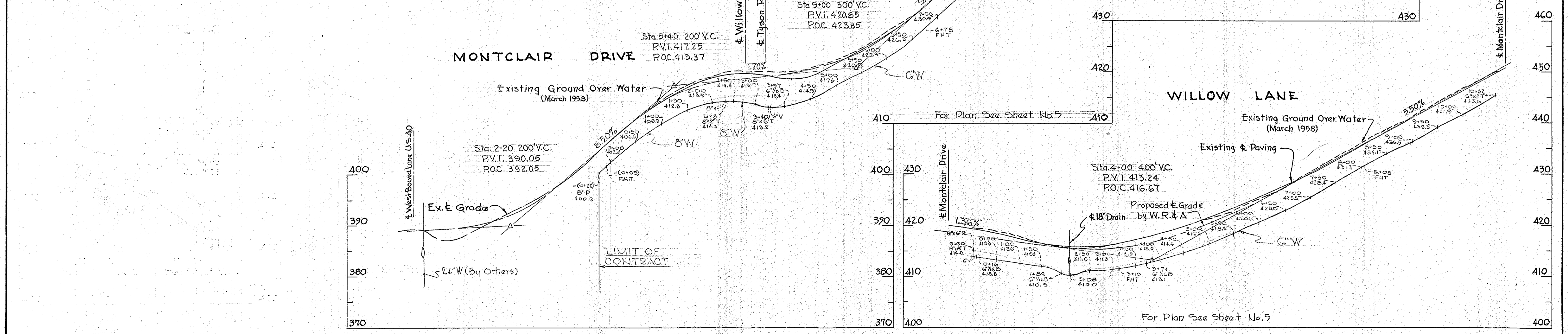
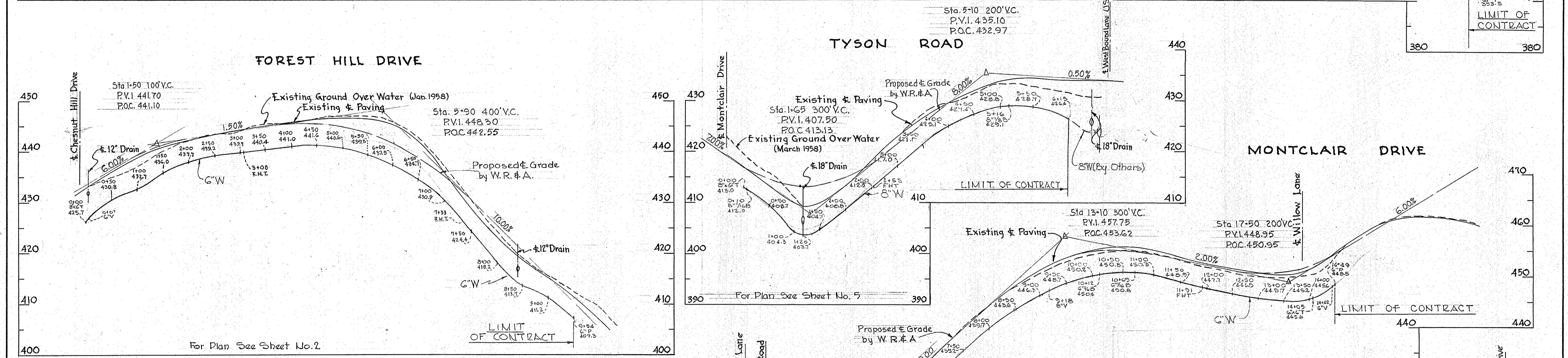
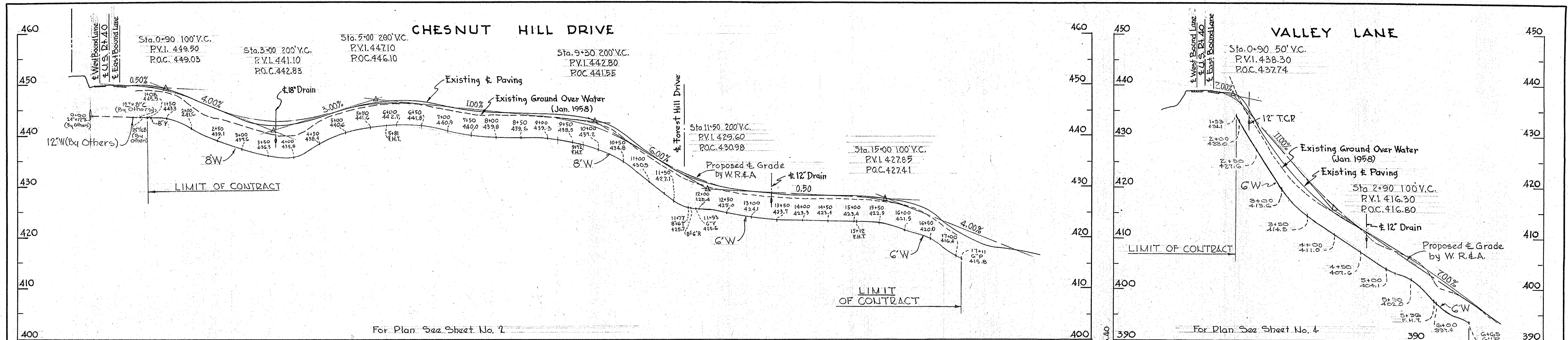
CONTRACT NO. 9-W

PLAN AND PROFILE OF
 WATER MAIN EXTENSIONS

ELLICOTT CITY SUB-DISTRICT

DRAWING NO. 11A OF 16
 SCALE AS SHOWN

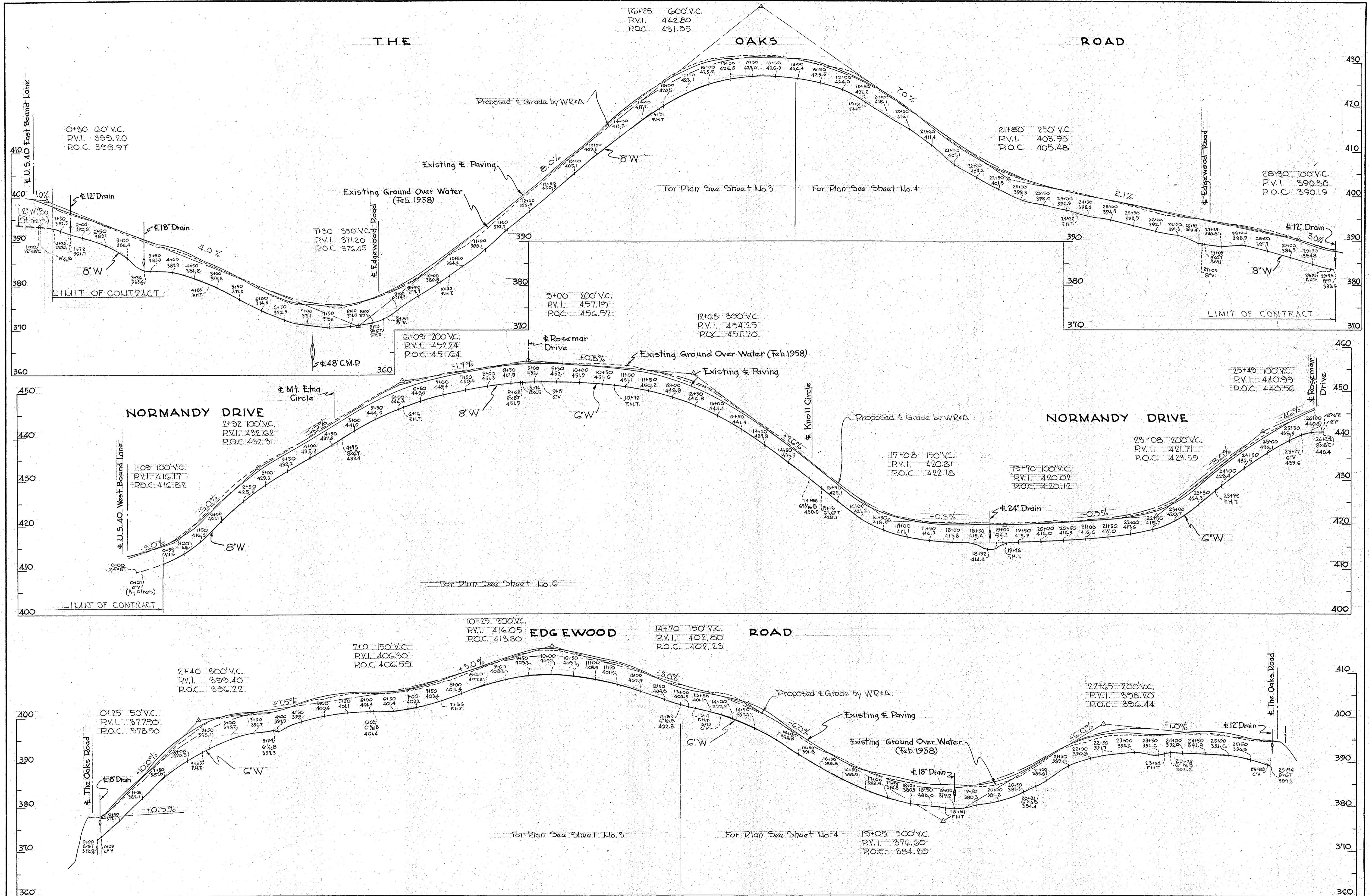
WS 9W/11A



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					OF 16	AS BUILT

W.O. 4649

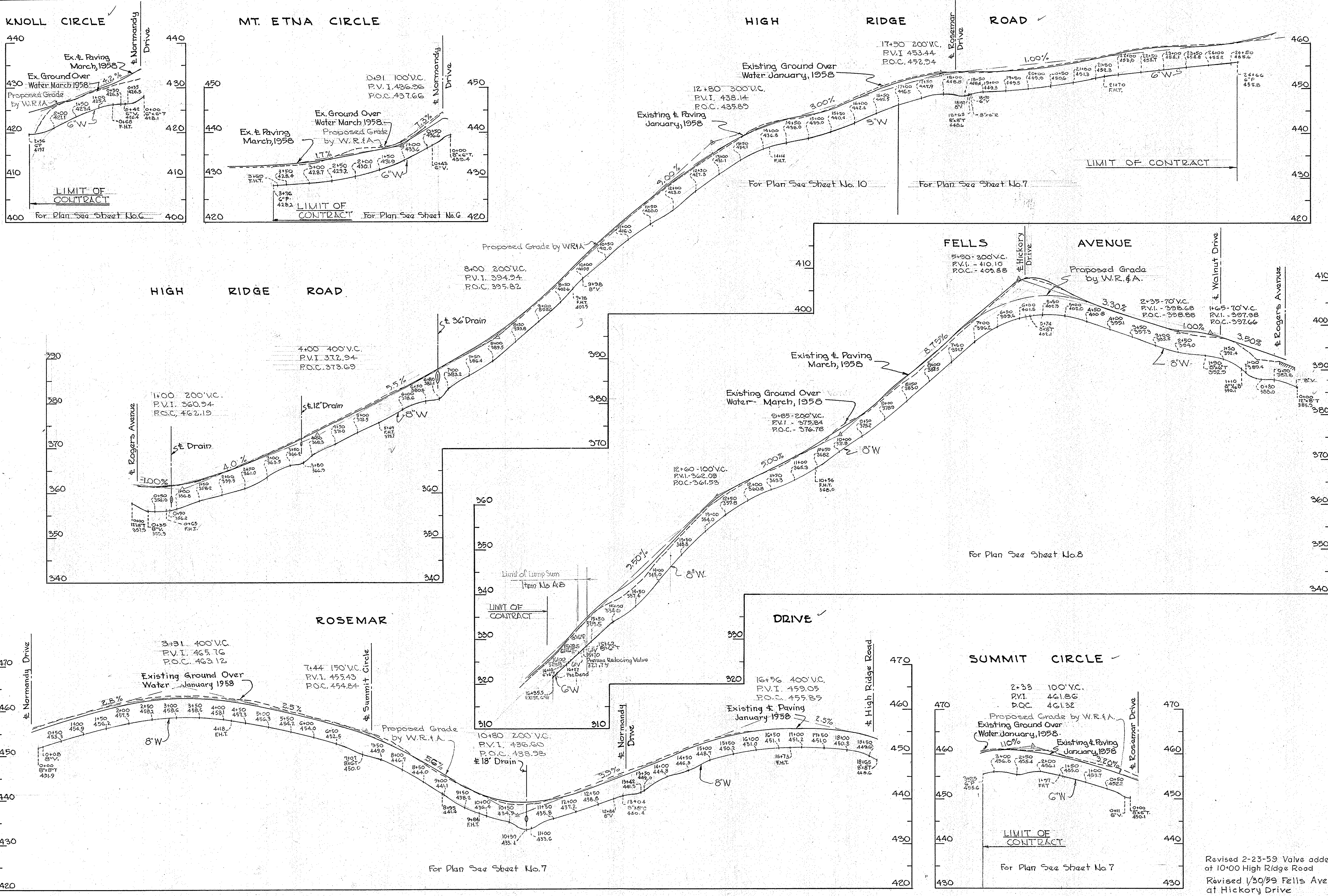
WS 9W/12



WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION July 30, 1958 <i>Carl W. Meyer</i> CHAIRMAN	CONTRACT NO. 9W	PROFILES OF WATER MAIN EXTENSIONS	ELLICOTT CITY SUB-DISTRICT	DRAWING NO. 13 OF 16 SCALE H-1"=100' V-1"=10' AS BUILT
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W.O.4649

WS 9W/13



Revised 2-23-59 Valve added at 10+00 High Ridge Road
 Revised 1/30/59 Fell's Avenue at Hickory Drive
 Revised 9/2/58

WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 1304 ST. PAUL ST.
 BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
 July 30, 1958
 DATE
Carl W. Meyer
 CHAIRMAN

CONTRACT NO. 9W

PROFILES OF
 WATER MAIN EXTENSIONS

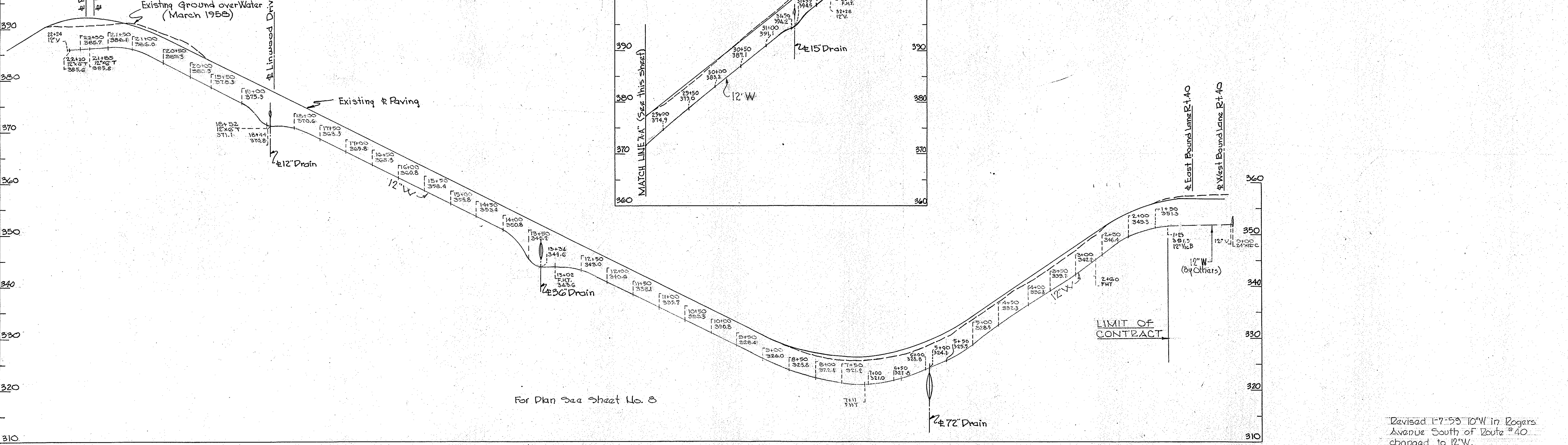
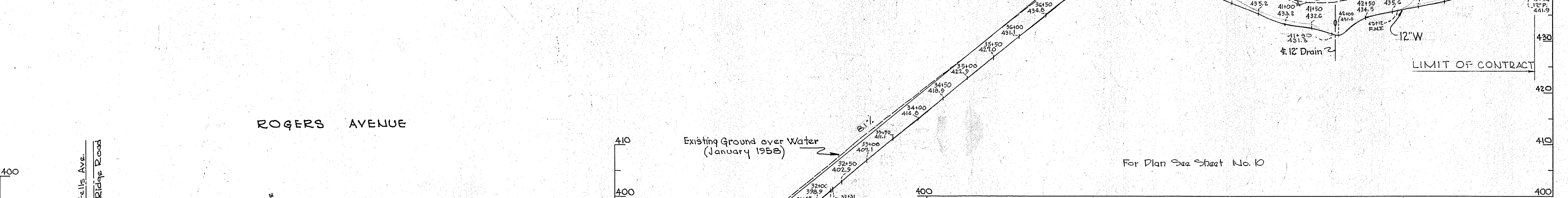
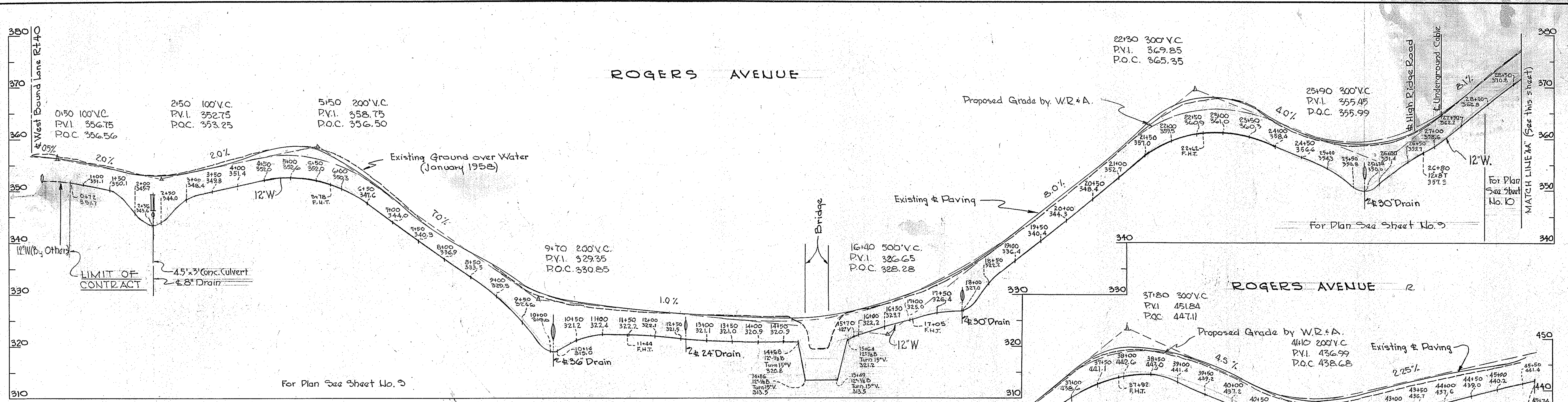
ELLCOTT CITY SUB-DISTRICT

DRAWING NO. 14 OF 16
 SCALE H-1"=100' V-1"=10'

AS BUILT

W.O. 4649

WS 9W/14

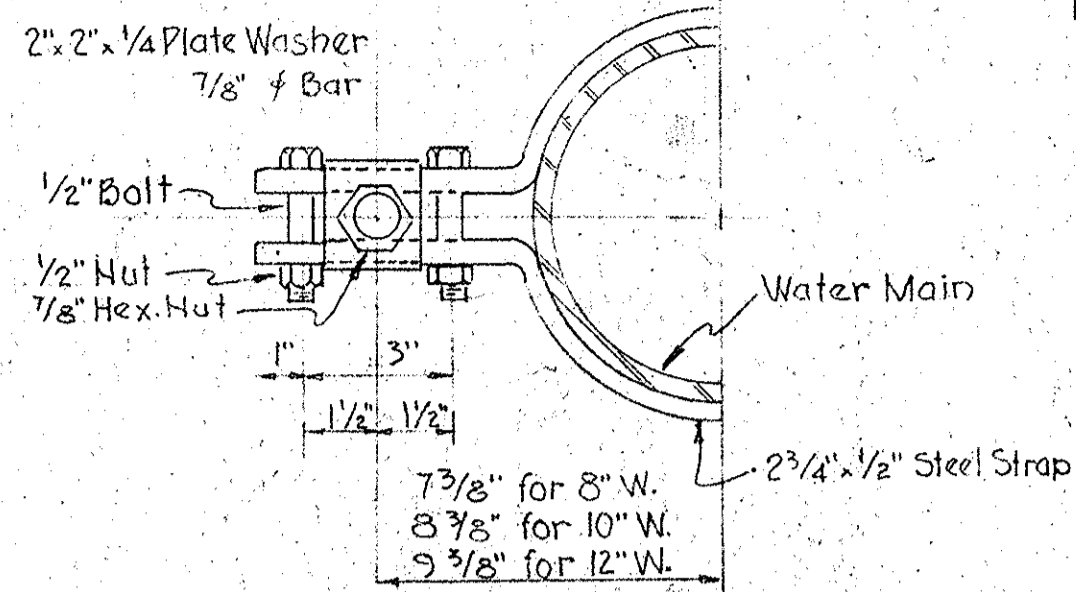


Revised 1-7-59 10'W in Rogers Avenue South of Route 40 changed to 12'W.

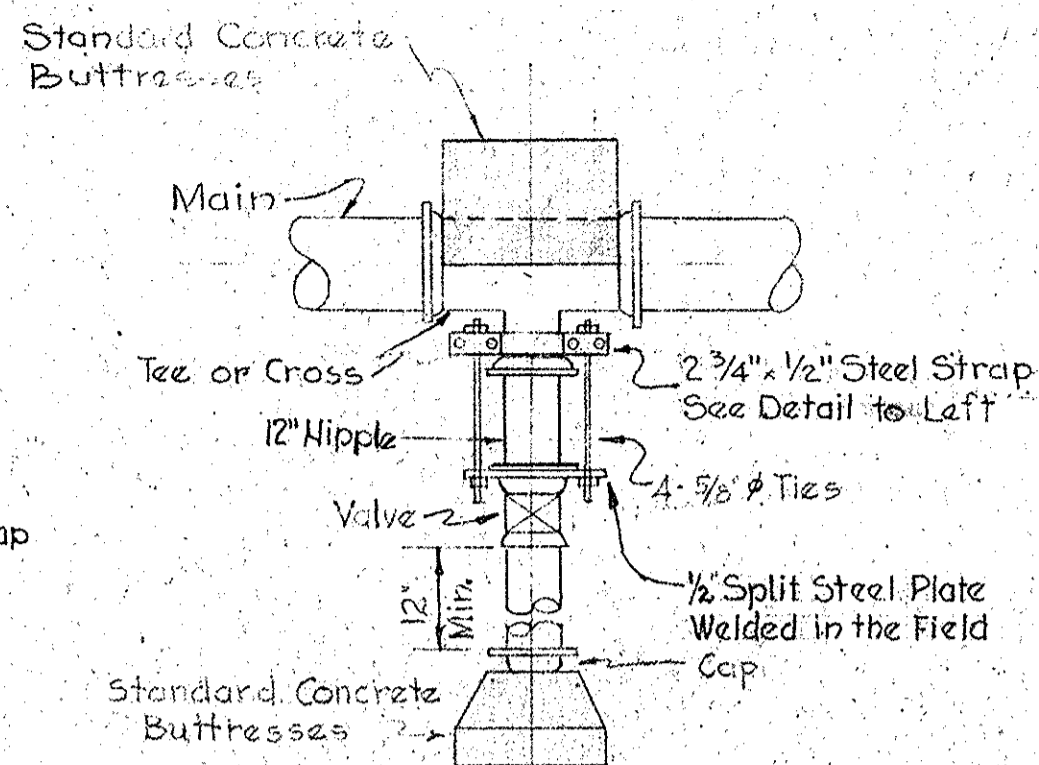
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION July 30, 1958 <i>Carl W. Meyer</i> CHAIRMAN	CONTRACT NO. 9W	PROFILES OF WATER MAIN EXTENSIONS	ELLICOTT CITY SUB-DISTRICT	DRAWING NO. 15 OF 16 SCALE H-1"=100' V-1"=10' AS BUILT
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W.O. 4649

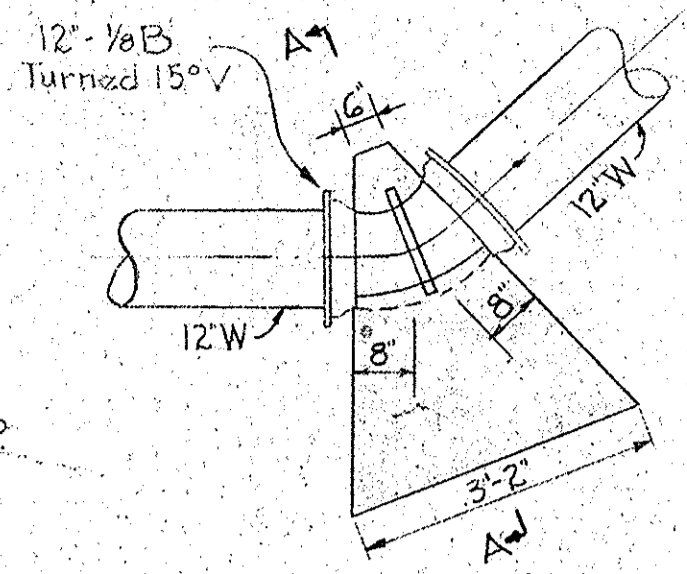
WS 9W/15



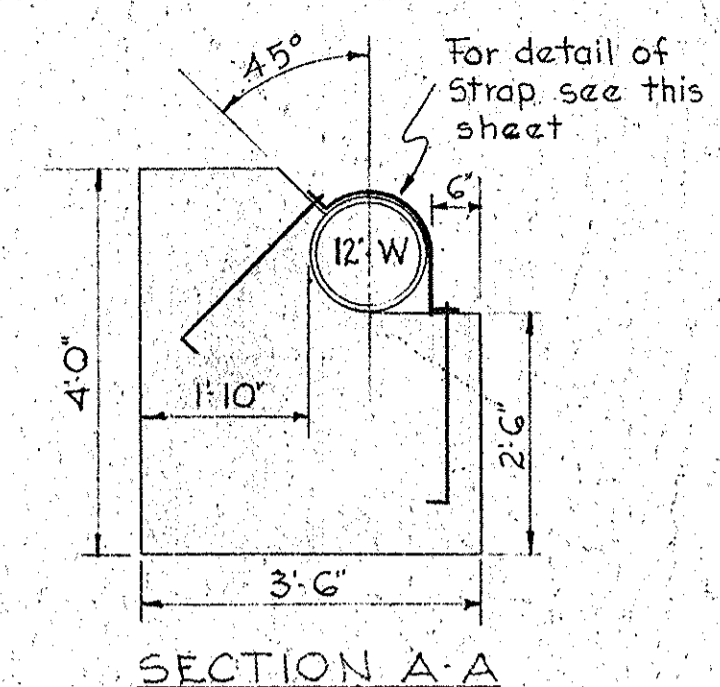
STRAPPING DETAIL
No Scale



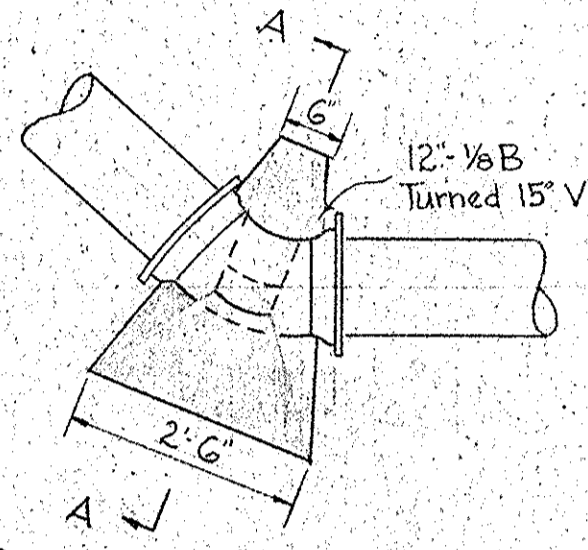
HARNESSE DETAIL
No Scale



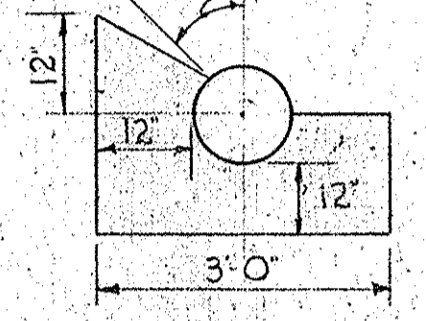
UPPER VERTICAL



SECTION A-A

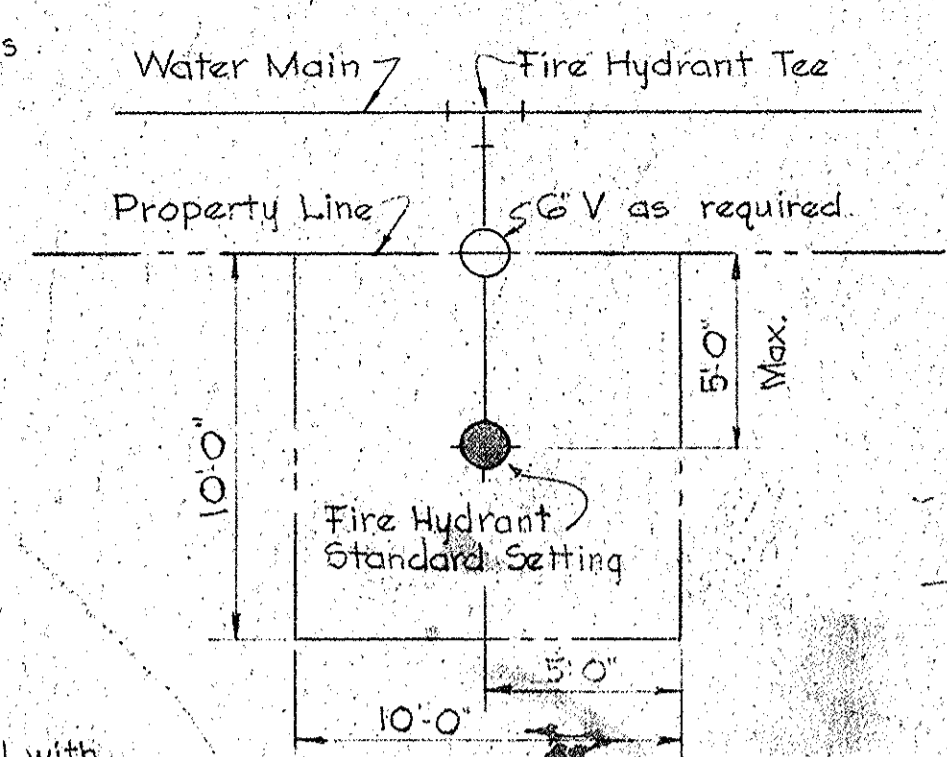


LOWER VERTICAL

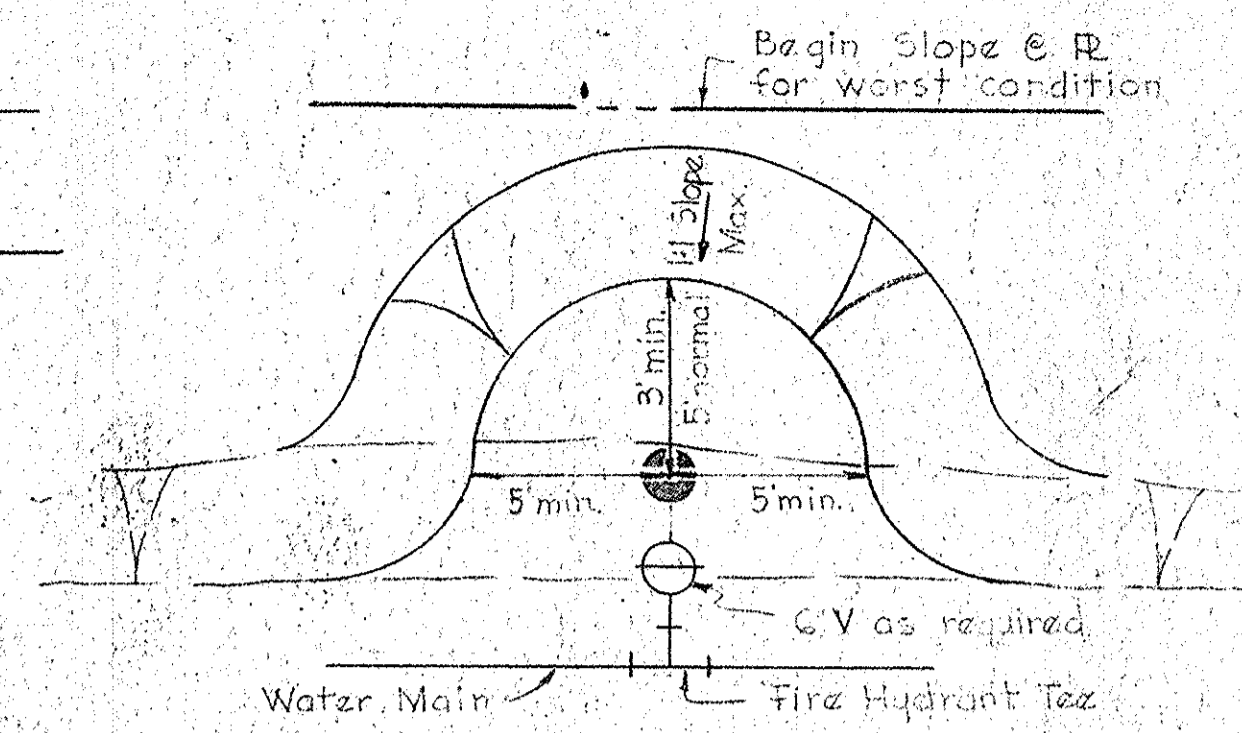


SECTION A-A

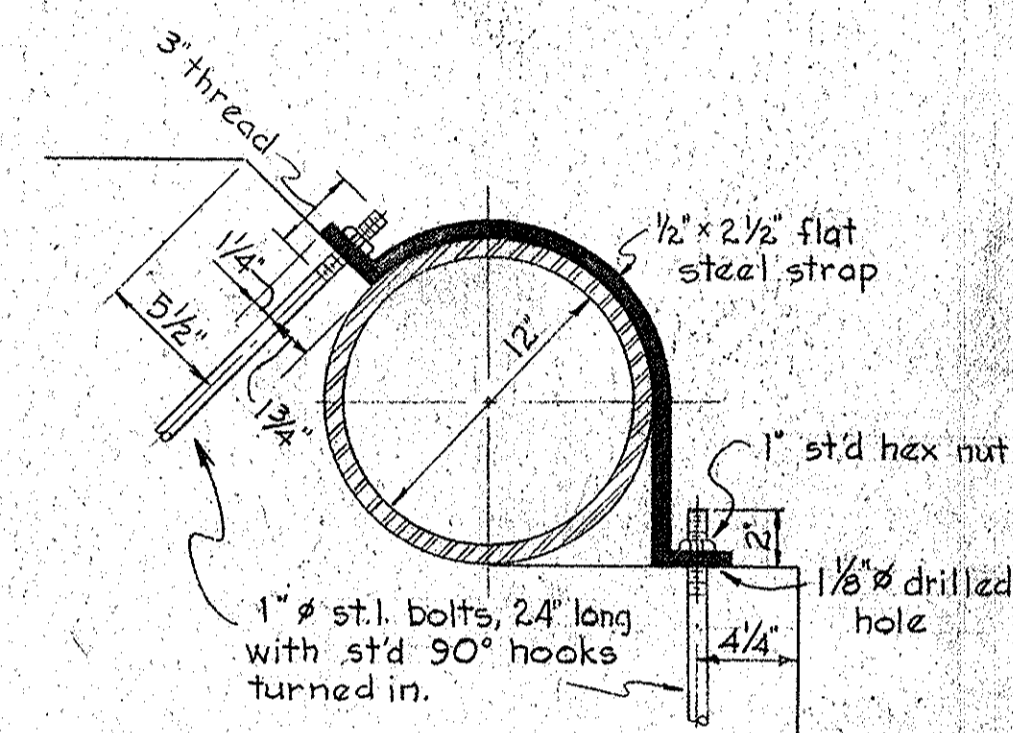
BLOCKING DETAILS
(AT ROGERS AVENUE BRIDGE)
Scale: 1/2" = 1'-0"
CONTRACT 9W



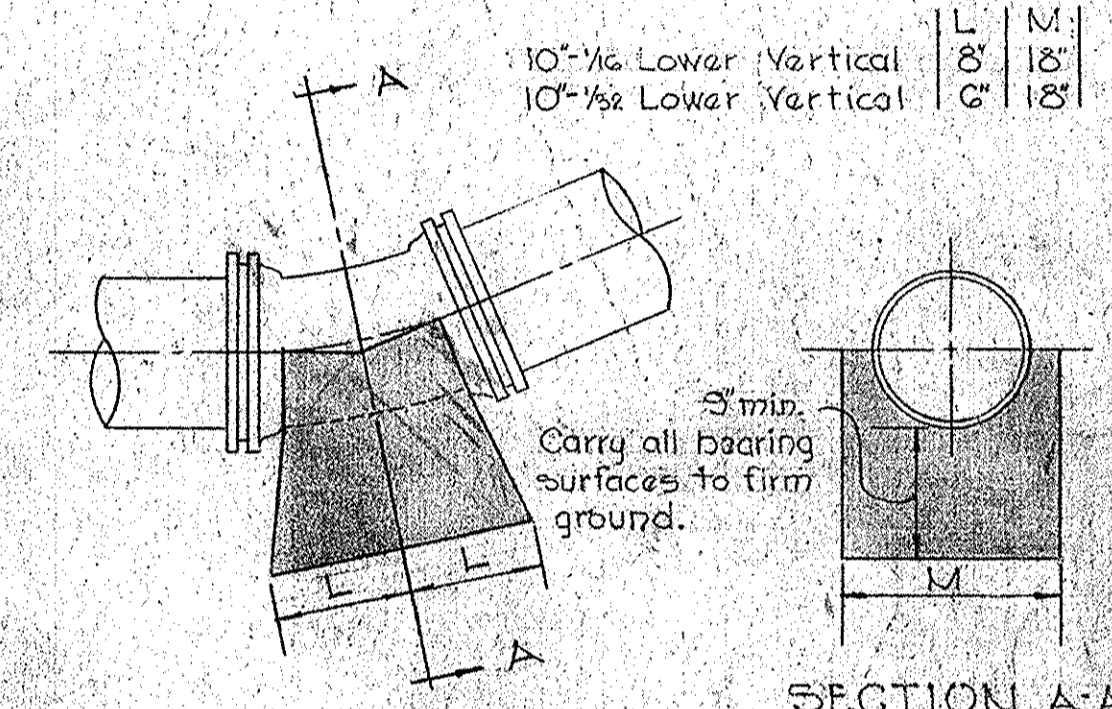
FIRE HYDRANT SETTING IN PRIVATE PROPERTY
No Scale



GRADING DETAIL FOR FIRE HYDRANTS
No Scale

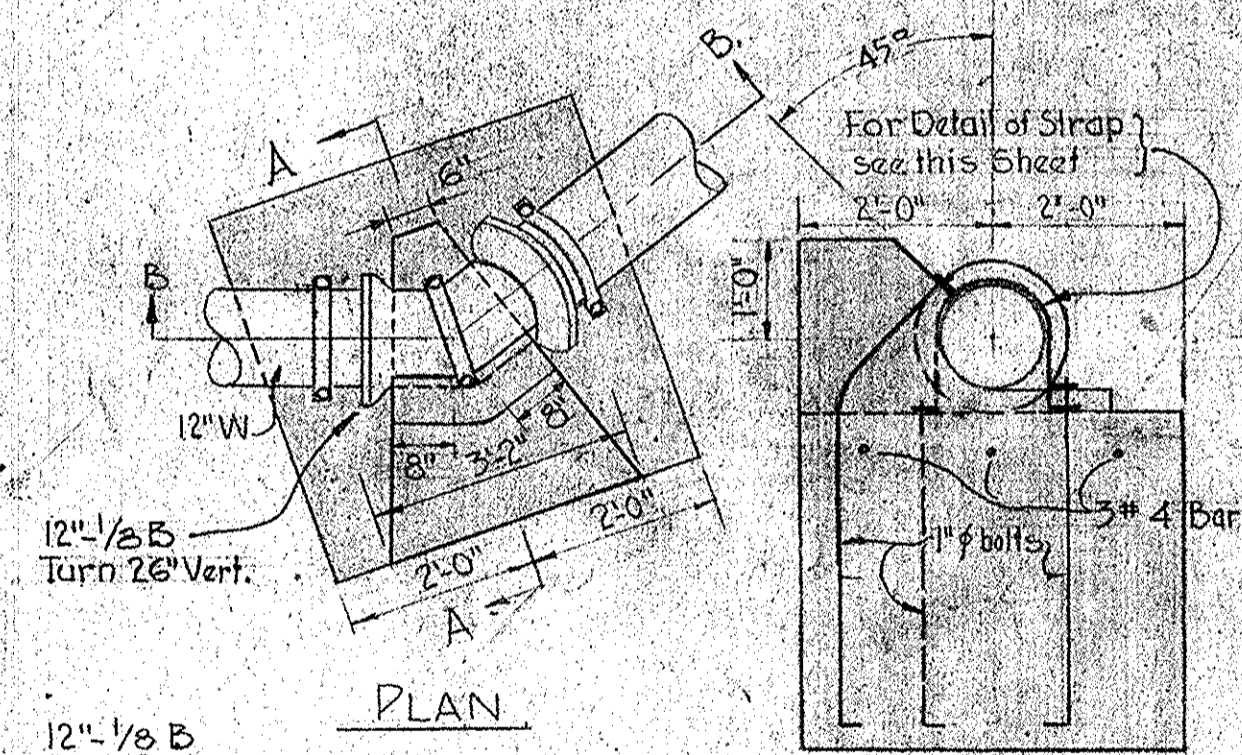


STRAPPING DETAIL
Scale: 1/2" = 1'-0"

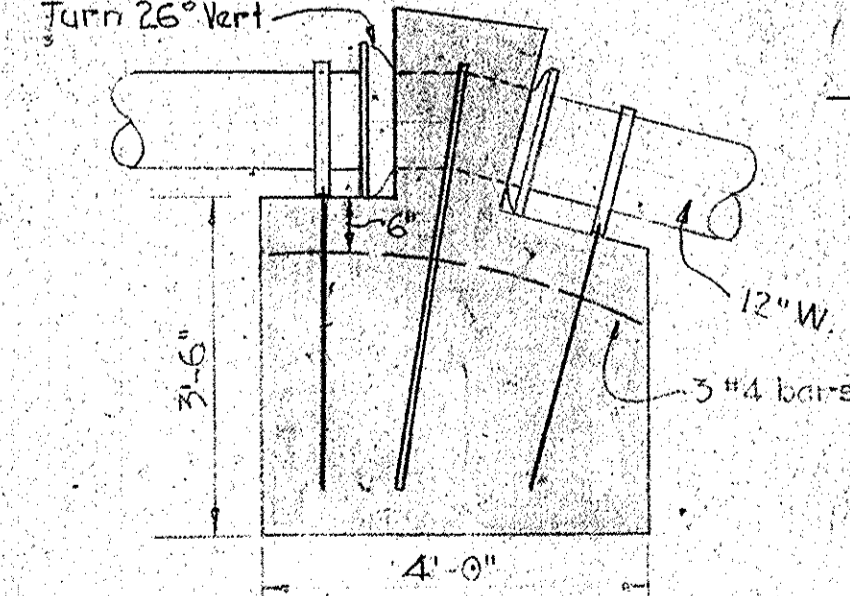


10" LOWER VERTICAL BENDS

BLOCKING DETAILS
(ALONG FREDERICK ROAD)
NO SCALE
CONTRACT 10W

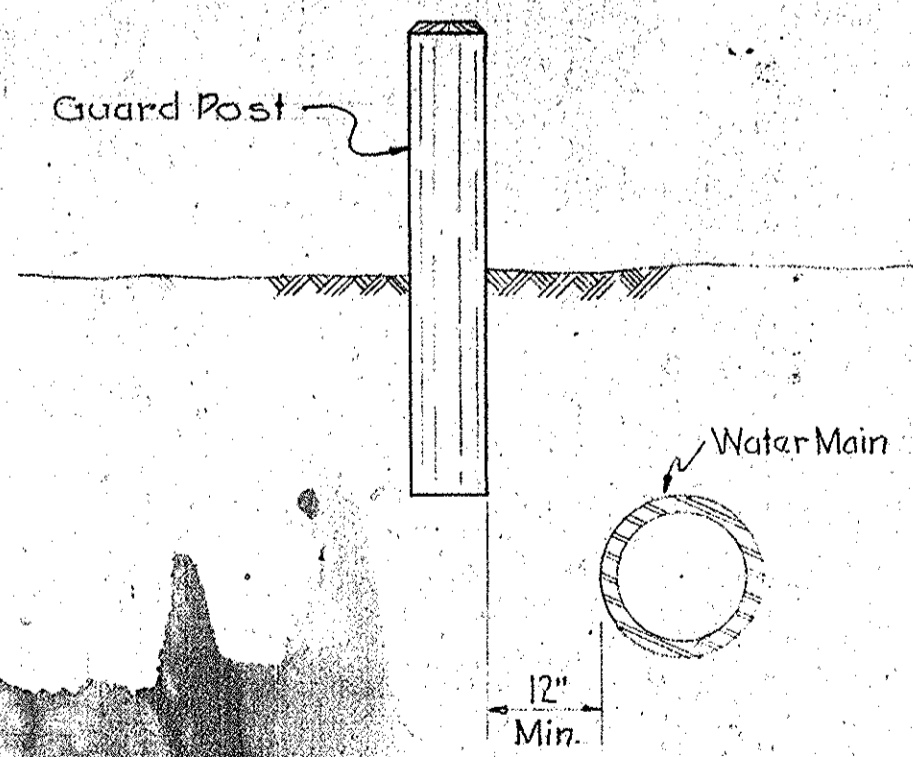


PLAN



SECTION B-B

UPPER VERTICAL
BLOCKING DETAILS
(STA 105+00 ON FREDERICK ROAD)
Scale: 1/2" = 1'-0" CONTRACT 11-W



DETAIL OF REPLACED GUARD RAIL
NO SCALE

Note:
Blocking for 12" Lower Vertical Bends @ Sta 105+00 and 102+00 along Frederick Road to be same as blocking for lower vertical bends at Rogers Avenue bridge. See detail on this sheet.
Paint all exposed steel with 2 coats Valdura asphalt paint or approved equal.
Carry all bearing surfaces to firm ground.
Concrete to be Class "B"

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
DATE: July 30, 1958
CHAIRMAN

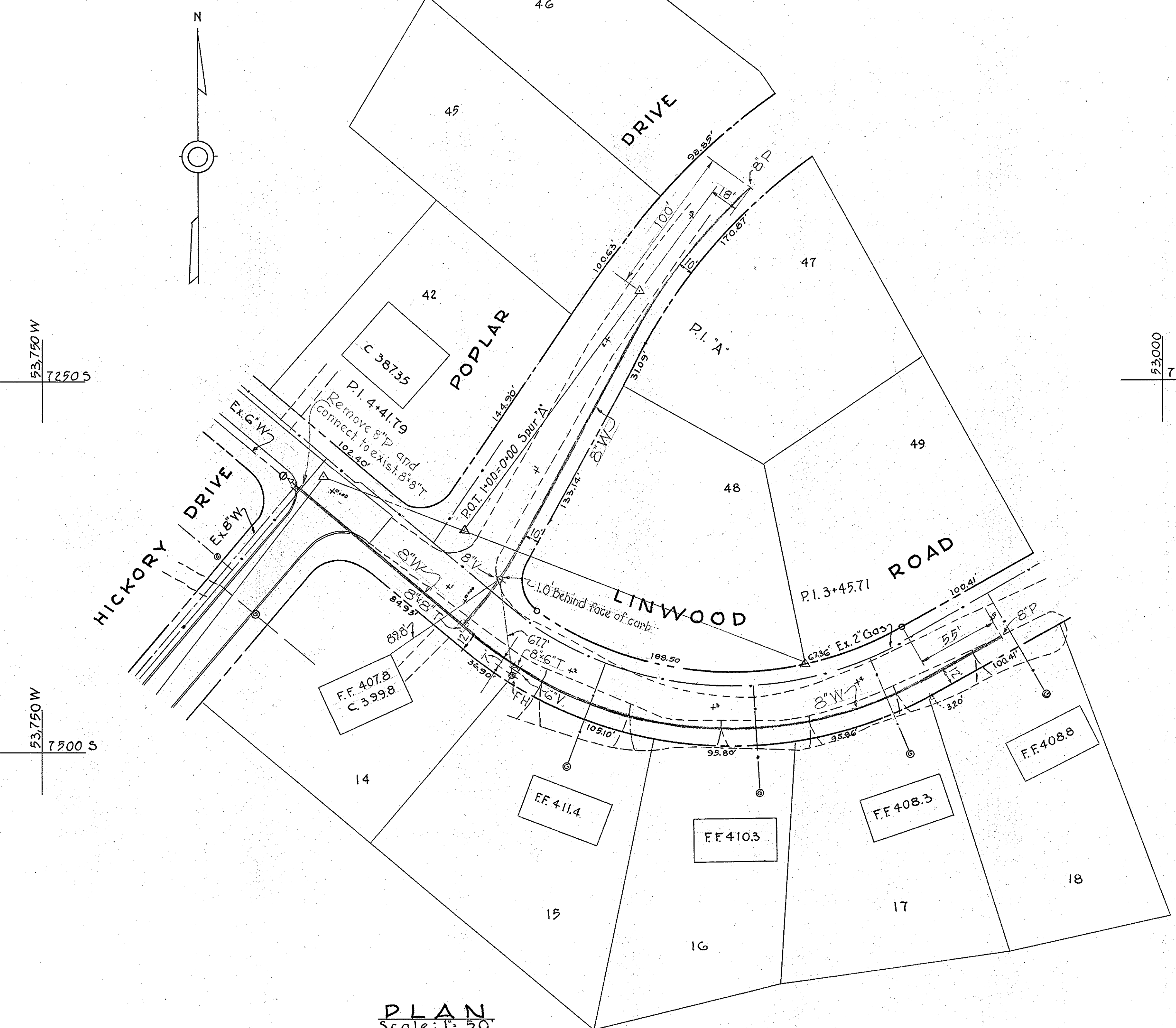
CONTRACT NO. 9W

DETAILS

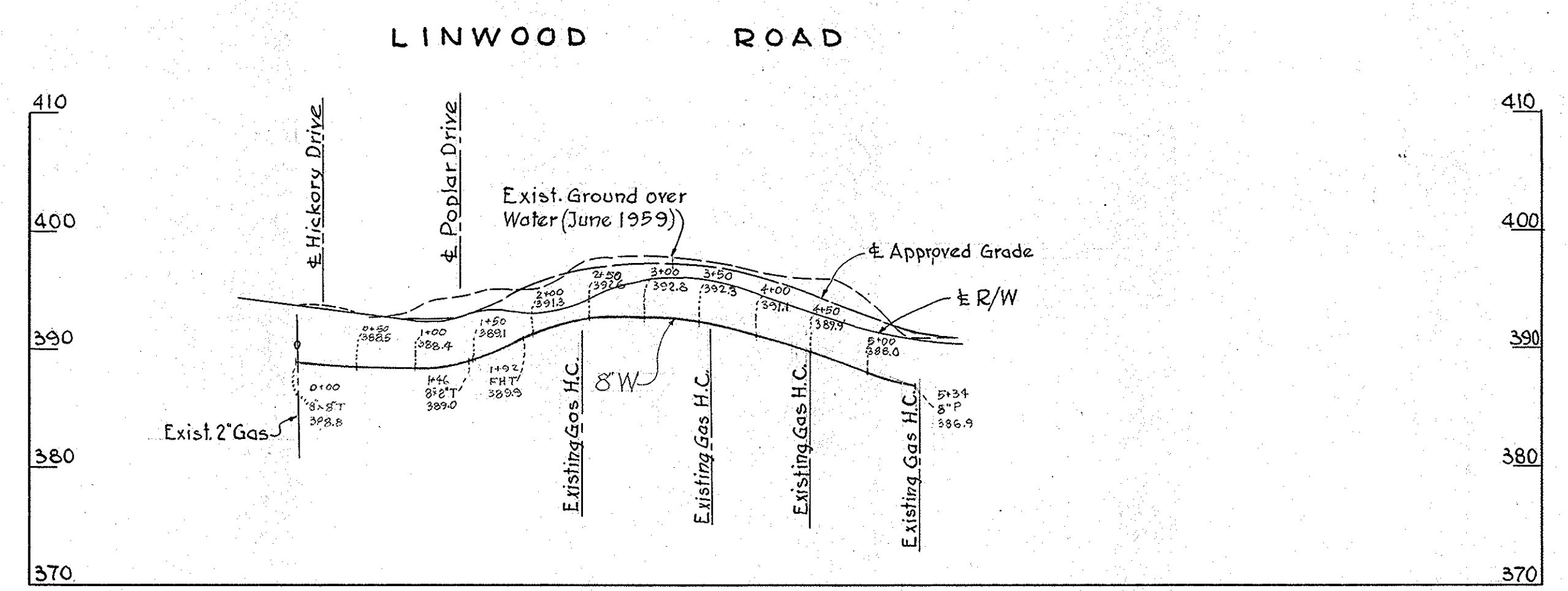
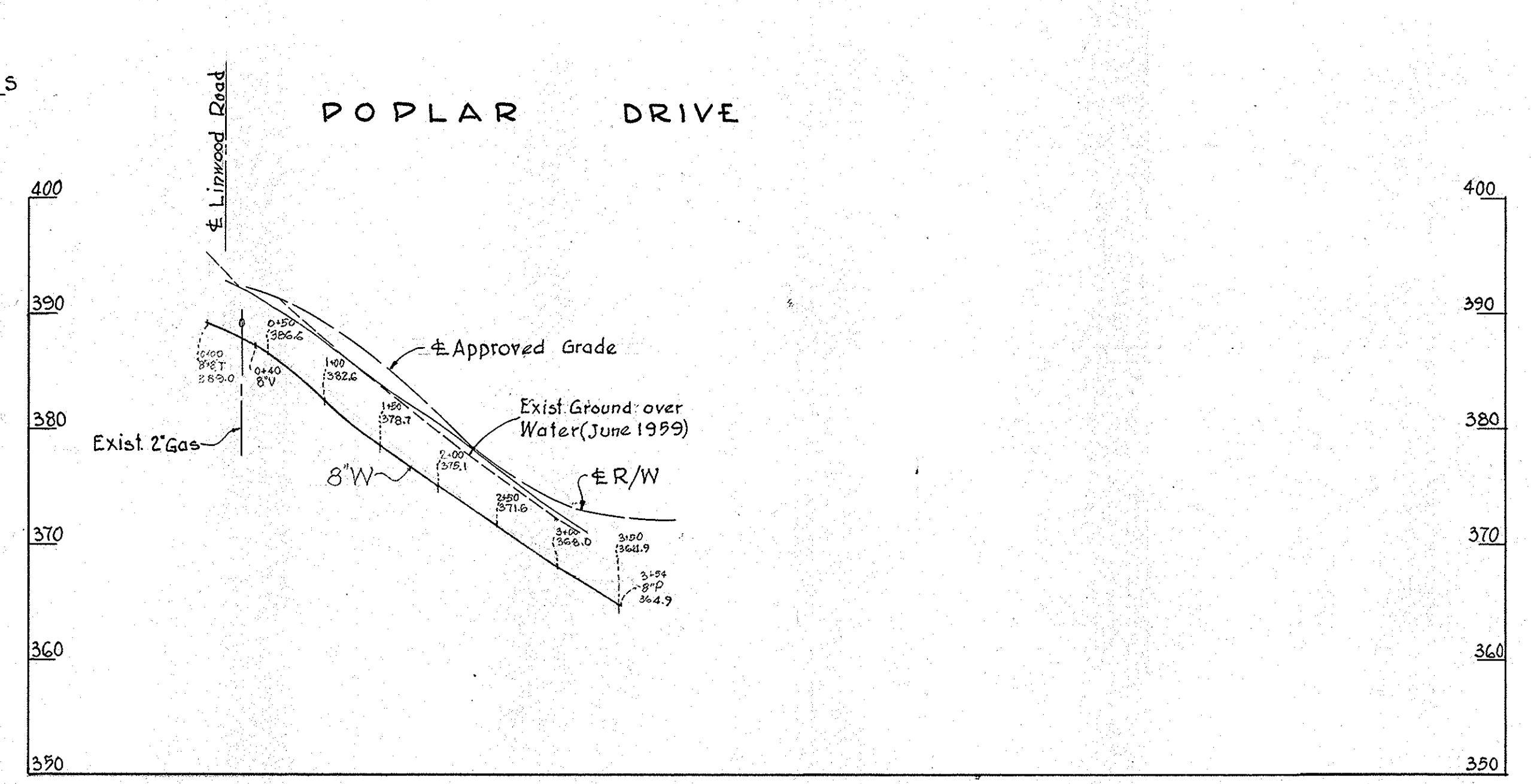
ELLICOTT CITY SUB-DISTRICT

DRAWING NO. 16 OF 16
SCALE AS SHOWN

91/M6 SM



PLAN
Scale: 1" = 50'



PROFILES
Scale: Hor. 1" = 50'
Vert. 1" = 5'

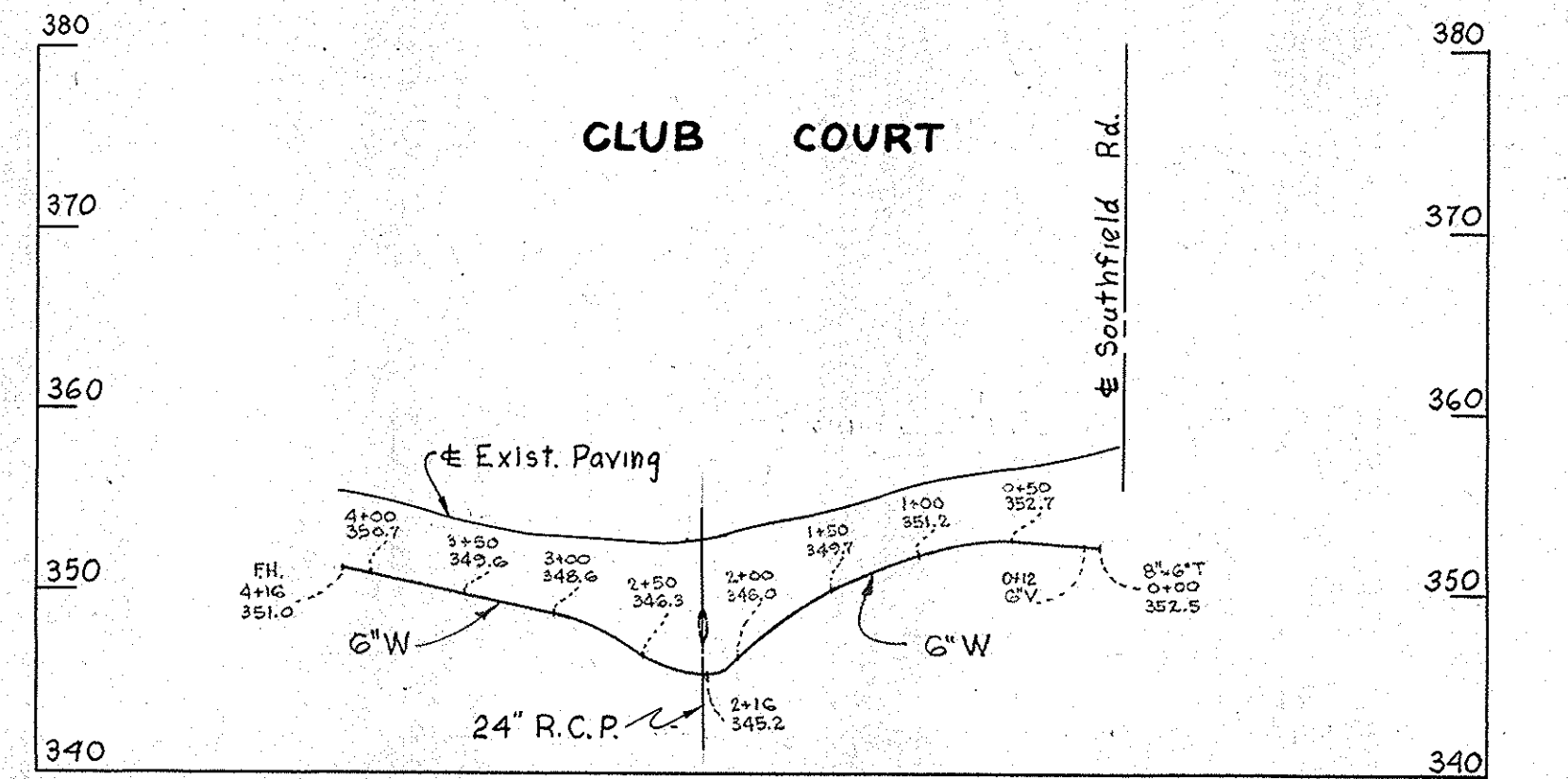
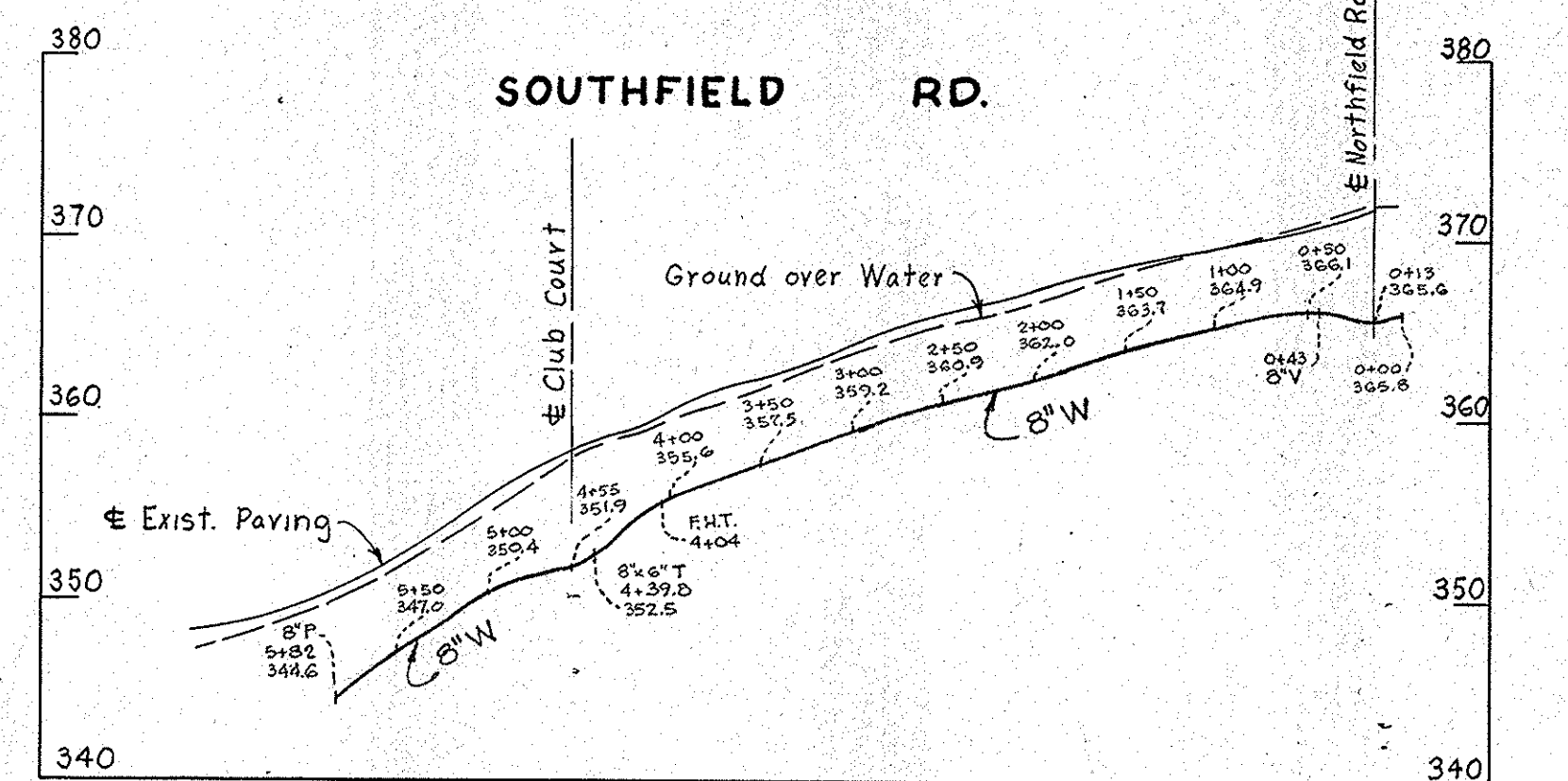
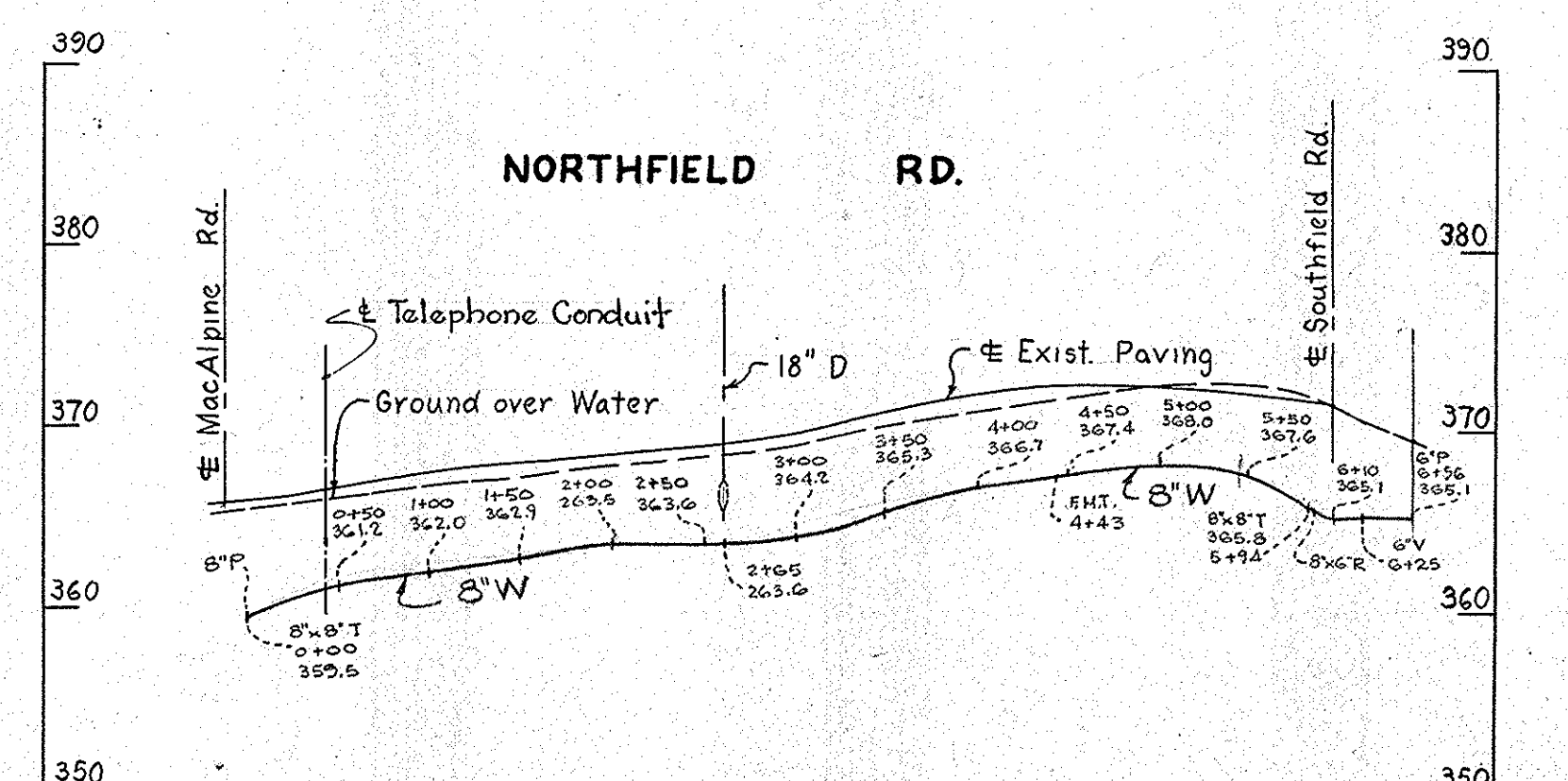
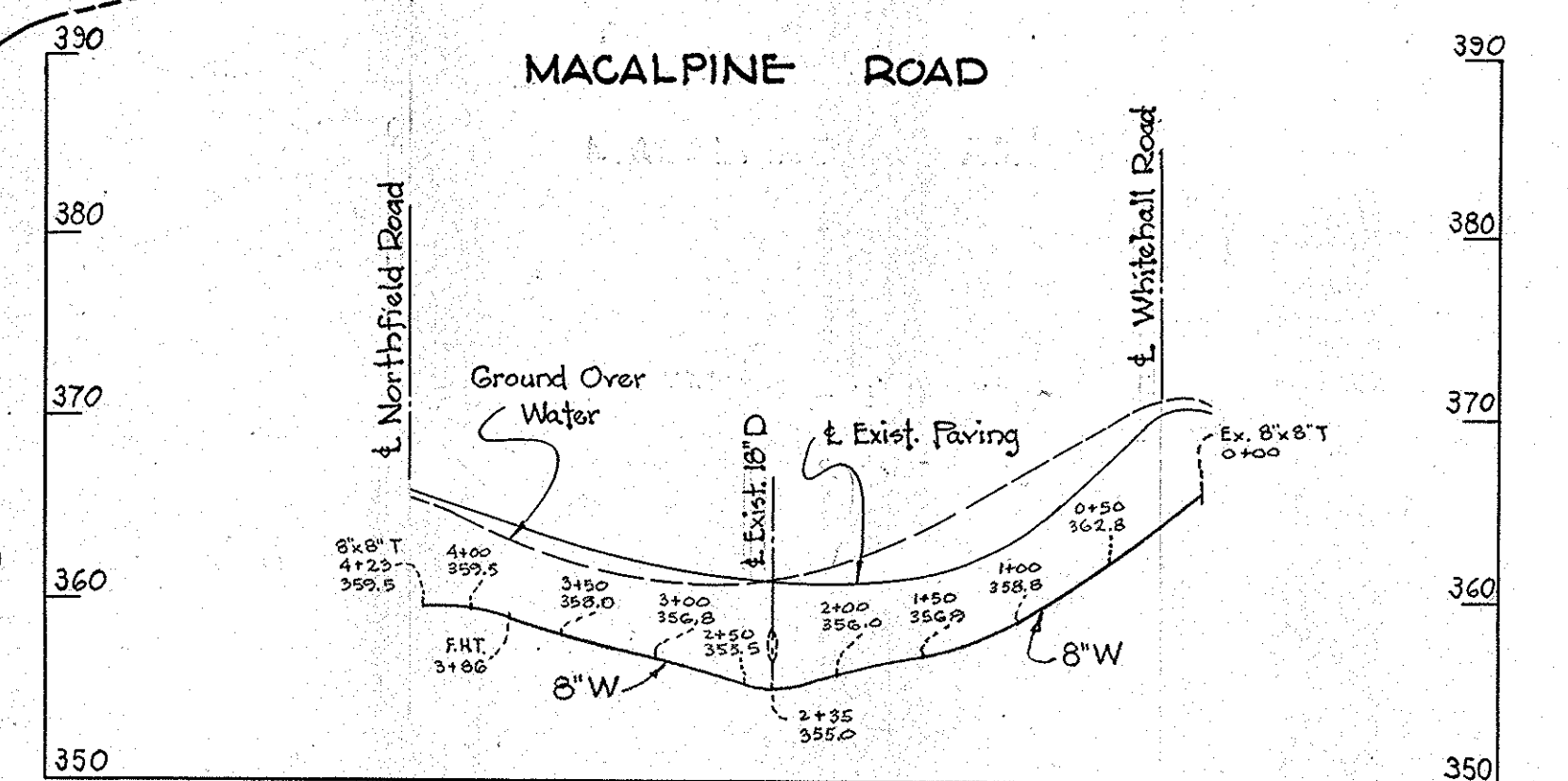
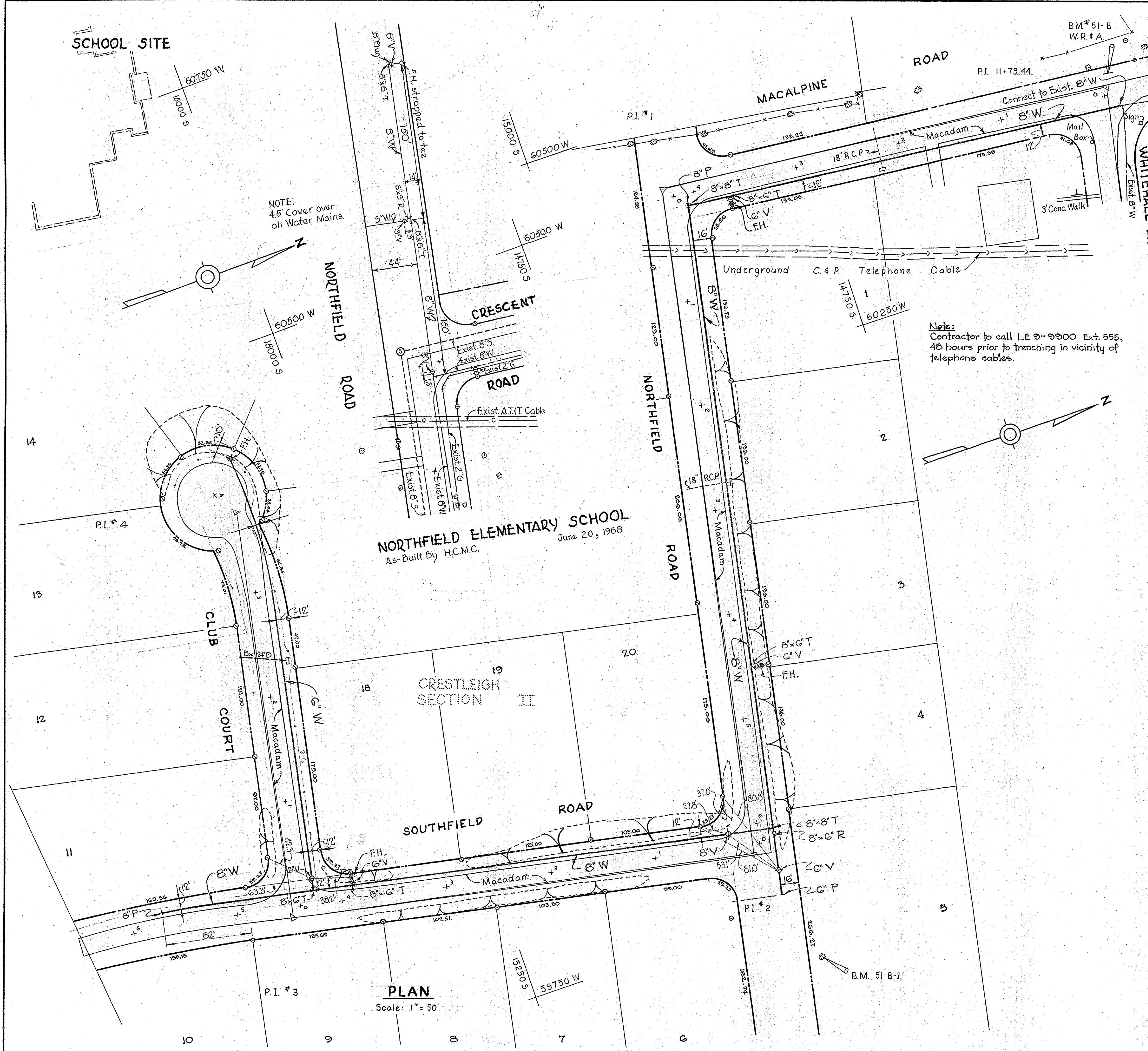
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION July 2, 1959 DATE <i>Carl W. Meyer</i> CHAIRMAN	CONTRACT NO. 9 W	PLAN & PROFILES WATER MAIN EXTENSIONS	ELLICOTT CITY SUB-DISTRICT	DRAWING NO. 16 A OF 16 SCALE AS SHOWN 8,5W, D.C.
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WO 4649 FB 2357

F.B. 2357 AS BUILT

WS 9W/16A

W.R.#A. B.M.# 51-B Elev. 367.21
 R.R. spike in base of C.F. pole #15,
 S.W. cor. of Macalpine & Whitehall Rds.



PROFILES
 Scale: Vert. 1" = 10', Horz. 1" = 100'

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION August 17, 1959 <i>Charles W. Meyer</i> CHAIRMAN	CONTRACT NO. 9-W	PLAN & PROFILE OF WATER MAIN EXTENSIONS	ELLICOTT CITY SUB-DISTRICT	DRAWING NO. 16-B OF 16 SCALE AS SHOWN 1" SW 40' x 41" 1" SW 40' x 41"
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4649-2

AS BUILT E.S.# 2957

WS 9W/16-B