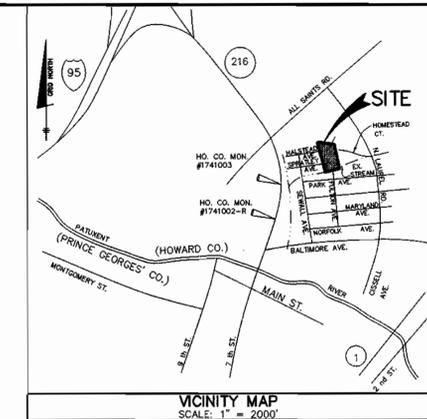


WATER AND SEWER MAIN EXTENSIONS CONTRACT NO. 24-3722-D

PATUXENT RIDGE 6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND



BENCH MARK DATA

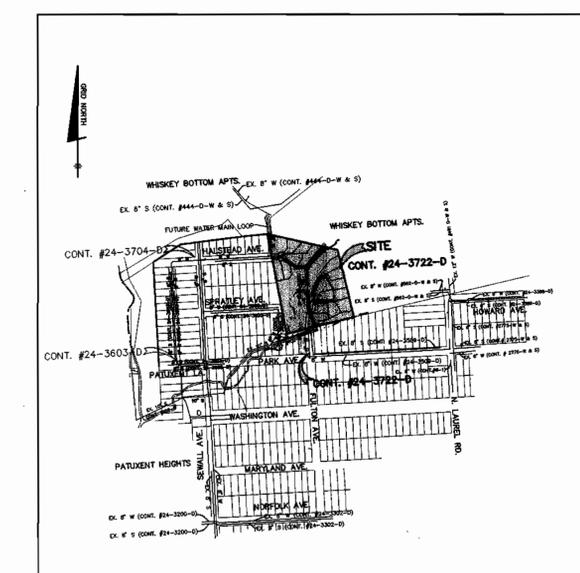
HOWARD COUNTY MON. # 1741003
CONC. MON. ON WEST SIDE OF
RTE. 216 AND 0.2' BELOW SURFACE.
ELEV. = 198.395

HOWARD COUNTY MON. # 1741002-R
CONC. MON. ON TOP OF BANK
EAST OF EAST EDGE MAC OF
RTE. 216 FLUSH WITH SURFACE.
ELEV. = 197.368

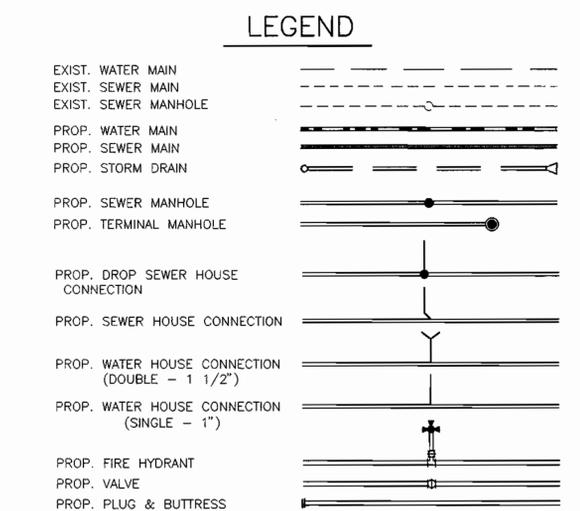
GENERAL NOTES

- PART 1 - 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 (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 THE CONTRACTOR'S WORK REQUIRES THE 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 DETAIL FOR CONSTRUCTION. 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 RUN 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... 410-531-5533
 - BALTIMORE GAS & ELECTRIC CO. 410-950-4620
 - CONTRACTOR SERVICES... .. 410-787-9068
 - BALTIMORE GAS & ELECTRIC CO. 410-787-9068
 - UNDERGROUND DAMAGE CONTROL... 1-800-287-7777
 - MISS UTILITY... .. 410-785-1390
 - COLORADO PIPELINE CO. 410-785-1390
 - BUREAU OF UTILITIES.
 - HOWARD CO. DEPT. OF PUBLIC WORKS... 410-313-4900
 - 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.
 - PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE OPERATIONS.
 - ALL WATER MAINS TO BE D.I.P. UNLESS OTHERWISE NOTED.
 - TOP OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" TO 4' COVER UNLESS OTHERWISE NOTED.
 - VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
 - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2490 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 DPM REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

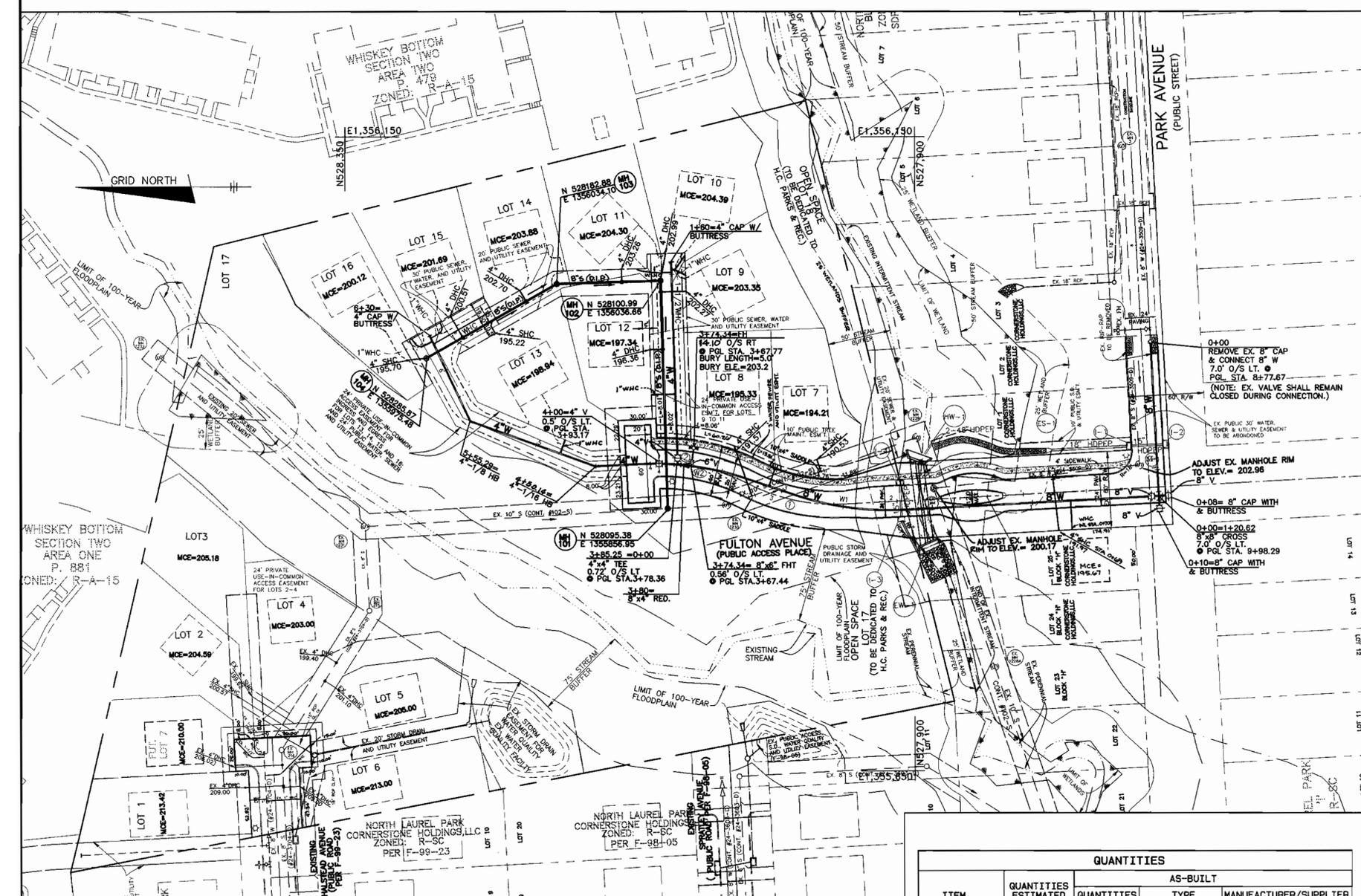
- PART 2 - WATER**
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2" TO 4' COVER UNLESS OTHERWISE NOTED.
 - VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
 - ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
 - FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON 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 SECTION 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.
- PART 3 - SEWER**
- ALL SEWER MAINS SHALL BE DIP, AND 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 18" WALLS ARE FOR BRICK MANHOLES ONLY.
 - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS, STANDARD DETAIL 85.52, WHERE WATER-TIGHT MANHOLE FRAME AND COVER IS USED. SET TOP OF FRAME 1' - 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - HOUSE (S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.



WATER AND SEWER COUNTY CODE		TYPE OF BUILDING : SINGLE FAMILY DETACHED	
WATER CODE:	C05	NUMBER OF LOTS :	19 (2 LOTS ARE OPEN SPACE)
SEWER CODE:	7141500	NUMBER OF SHCS :	11
TEST GRADIENT:	550	NUMBER OF WHCS :	11
		DRAINAGE AREA :	PATUXENT
		TREATMENT PLANT :	UTILE PATUXENT



SHEET INDEX	
SHEET NO	TITLE
1	PLAN AND TITLE SHEET
2	PROFILES



PLAN VIEW
SCALE: 1" = 50'

WATER MAIN CRIMP RADIUS DATA						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
W1	230.00'	86.56'	43.80'	88.05'	N07°42'08"E	21°33'47"
W2	230.00'	85.22'	43.11'	84.73'	N07°52'08"E	21°33'47"

ITEM	QUANTITIES ESTIMATED	AS-BUILT	
		QUANTITIES	MANUFACTURER/SUPPLIER
8" WATER	679 L.F.		
4" x 4" TEE	1 EA.		
8" x 8" CROSS	1 EA.		
8" VALVE	2 EA.		
4" VALVE	2 EA.		
8" x 8" FHT	1 EA.		
18" SMOKE (S.P.)	1 EA.		
8" x 4" REDUCER	1 EA.		
4" WATER	404 L.F.		
10" x 4" SMOKE	2 EA.		
1" WHC	185 L.F.		
1 1/2" WHC	30 L.F.		
8" SMOKE (S.P.)	30 L.F.		
MANHOLES	4 EA.		
4" SHC	108 L.F.		
4" DHC	128 L.F.		

NAME OF UTILITY CONTRACTOR: _____
SURVEY AND DRAFTING AS-BUILT DATE: _____

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

[Signature] 9/22/99
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

[Signature] 9/22/99
NATURAL RESOURCES CONSERVATION SERVICE DATE

OWNER/DEVELOPER
CORNERSTONE HOLDINGS, L.L.C.
9691 NORFOLK AVENUE
LAUREL, MARYLAND 20723
410-792-2565

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 9/22/99
MICHAEL A. GIANINELLO
CHIEF, BUREAU OF UTILITIES RMB DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

[Signature] 9/22/99
HARRY W. DEWINTER
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**BENCHMARK
ENGINEERING, INC.**

6480 BALTIMORE NATIONAL PIKE • SUITE 418 • ELICOTT CITY, MARYLAND 21043
PHONE: 410-665-8105 FAX: 410-665-6644

[Signature]
DONALD MAZUR

DES: YSL
DRN: YSL
CHK: CAM
DATE: 3/99
6/99

BY	NO.	REVISIONS	DATE

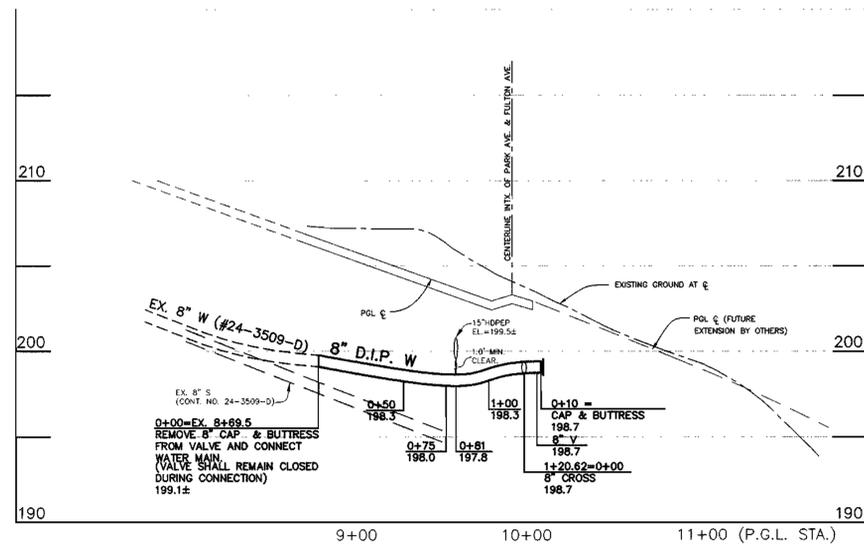
**WATER & SEWER EXTENSION
PLAN AND TITLE SHEET**

600 SCALE MAP NO. 50 BLOCK "3"

PATUXENT RIDGE
LOTS 1 THRU 18
AND LOT 25 BLOCK 'H'
HOWARD COUNTY ELECTION DISTRICT NO. 6

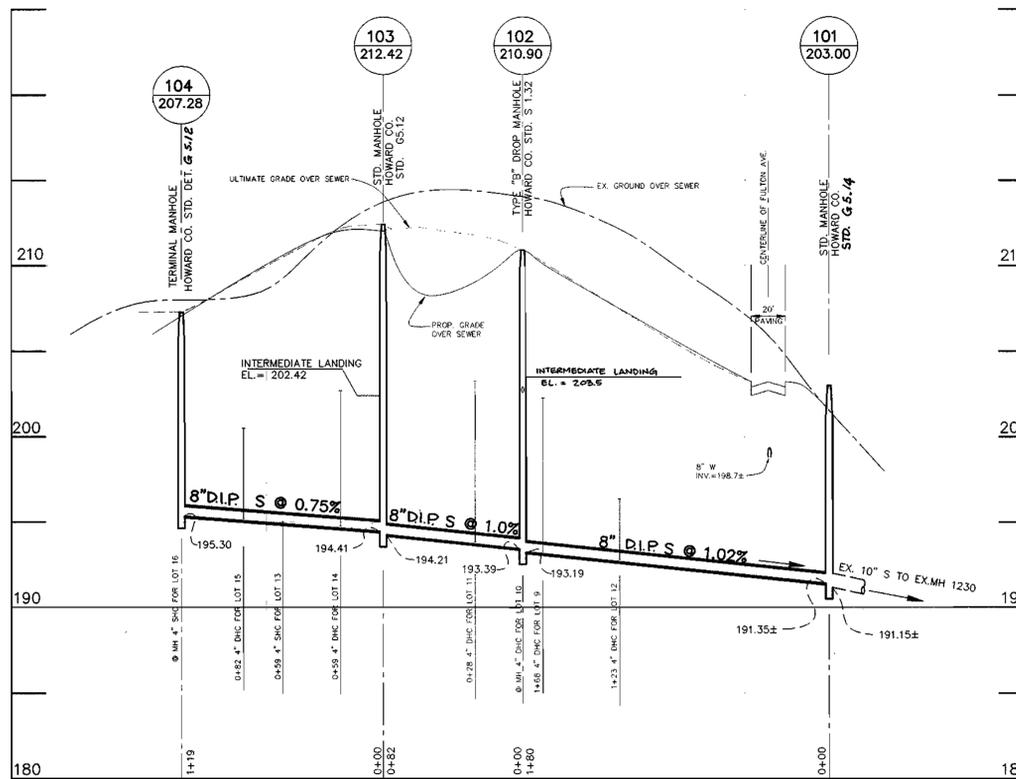
CONTRACT NO. 24-3722-D

SCALE AS SHOWN
SHEET 1 OF 2



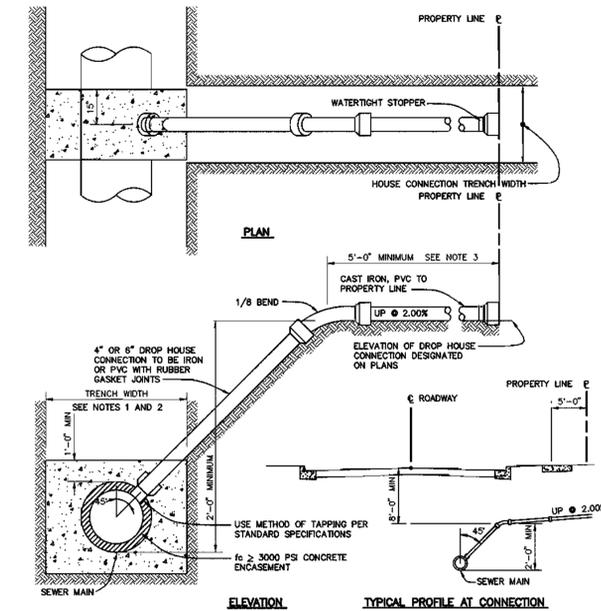
WATER MAIN AT PARK AVENUE

SCALE: HORT.: 1" = 50'
 VERT.: 1" = 5'



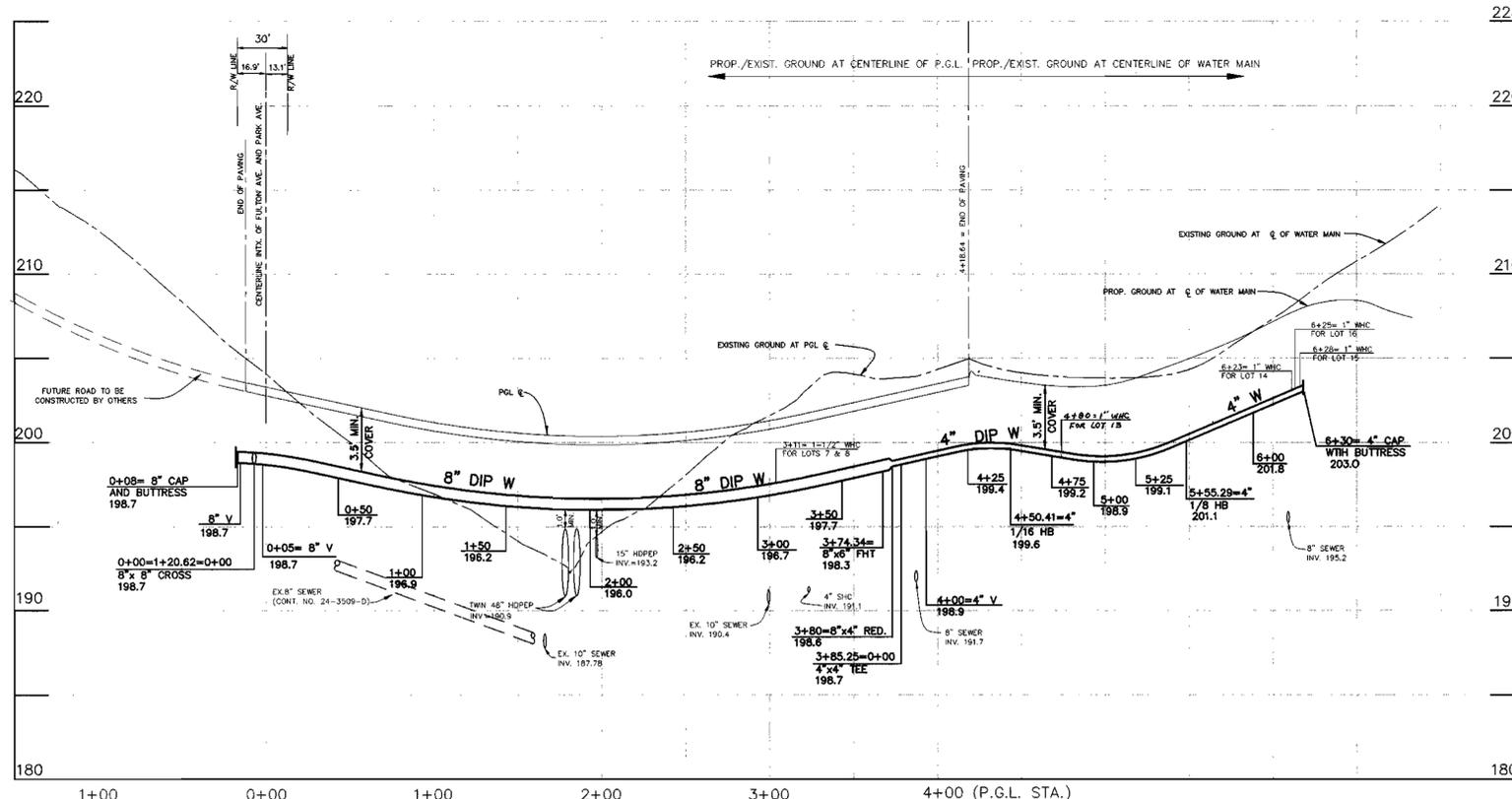
8" SEWER PROFILE

SCALE: HORT.: 1" = 50'
 VERT.: 1" = 5'



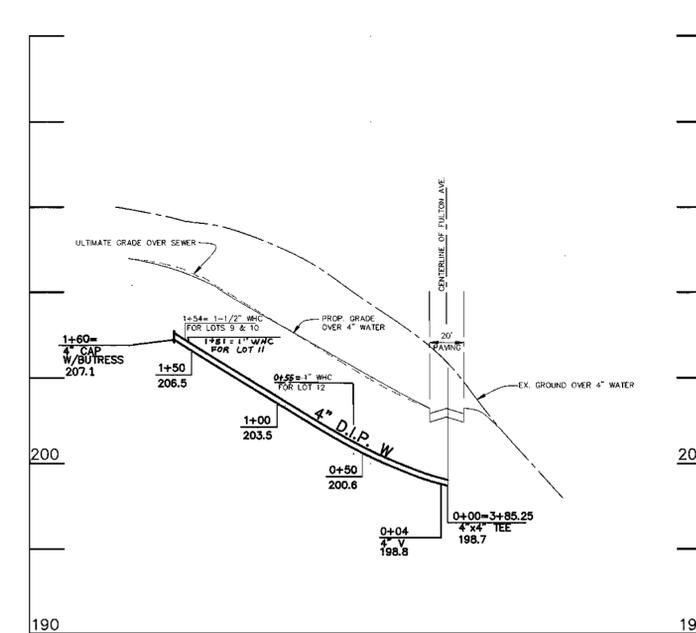
4" DROP HOUSE CONNECTION TO SEWER MAIN

NOT TO SCALE
 HOWARD COUNTY DESIGN MANUAL - VOL. II
 WATER AND SEWER - APPENDIX 13



WATER MAIN PROFILE AT FULTON AVE.

SCALE: HORT.: 1" = 50'
 VERT.: 1" = 5'



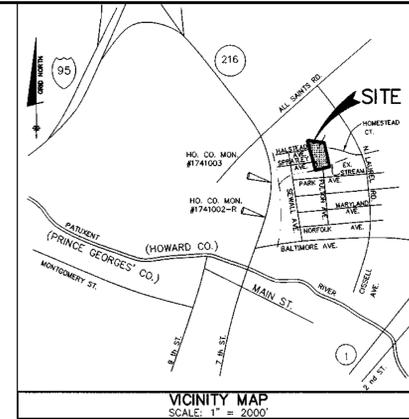
4" WATER MAIN PROFILE

SCALE: HORT.: 1" = 50'
 VERT.: 1" = 5'

OWNER/DEVELOPER

CORNERSTONE HOLDINGS, L.L.C.
 9691 NORFOLK AVENUE
 LAUREL, MARYLAND 20723
 410-792-2565

WATER AND SEWER MAIN EXTENSIONS CONTRACT NO. 24-3722-D PATUXENT RIDGE 6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND



BENCH MARK DATA

HOWARD COUNTY MON. # 1741003
CONC. MON. ON WEST SIDE OF
RTE. 216 AND 0.2' BELOW SURFACE.
ELEV. = 198.395

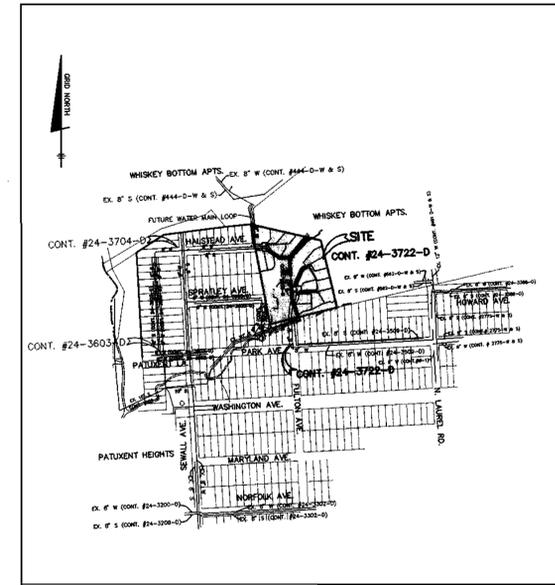
HOWARD COUNTY MON. # 1741002-R
CONC. MON. ON TOP OF BANK
EAST OF EAST EDGE MAC. OF
RTE. 216 FLUSH WITH SURFACE.
ELEV. = 197.368

GENERAL NOTES

- PART 1 - 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 (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 TUNNELS 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 THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE 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 DETAIL FOR CONSTRUCTION. 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.....410-531-5533
 - BALTIMORE GAS & ELECTRIC CO.....410-850-4620
 - BALTIMORE GAS & ELECTRIC CO.....410-787-9098
 - UNDERGROUND DAMAGE CONTROL.....410-257-7777
 - MISSISSIPPI VALLEY.....410-795-1390
 - COLONIAL PIPELINE CO.....410-795-1390
 - BUREAU OF UTILITIES.....410-313-4900
 - HOWARD CO. DEPT. OF PUBLIC WORKS.....410-313-4900
 - 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.
 - PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE OPERATIONS.
 - ALL WATER MAINS TO BE 0.1 P. UNLESS OTHERWISE NOTED.
 - TOP OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" TO 4' COVER UNLESS OTHERWISE NOTED.
 - VALVES ADJACENT TO TREES SHALL BE STRAPPED TO TREES.
 - 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 2 - WATER**
- ALL WATER MAINS TO BE 0.1 P. CLASS 52 UNLESS OTHERWISE NOTED. UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2' TO 4' COVER UNLESS OTHERWISE NOTED.
 - VALVES ADJACENT TO TREES SHALL BE STRAPPED TO TREES.
 - 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 ON 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 SECTION 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 SETTINGS UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.

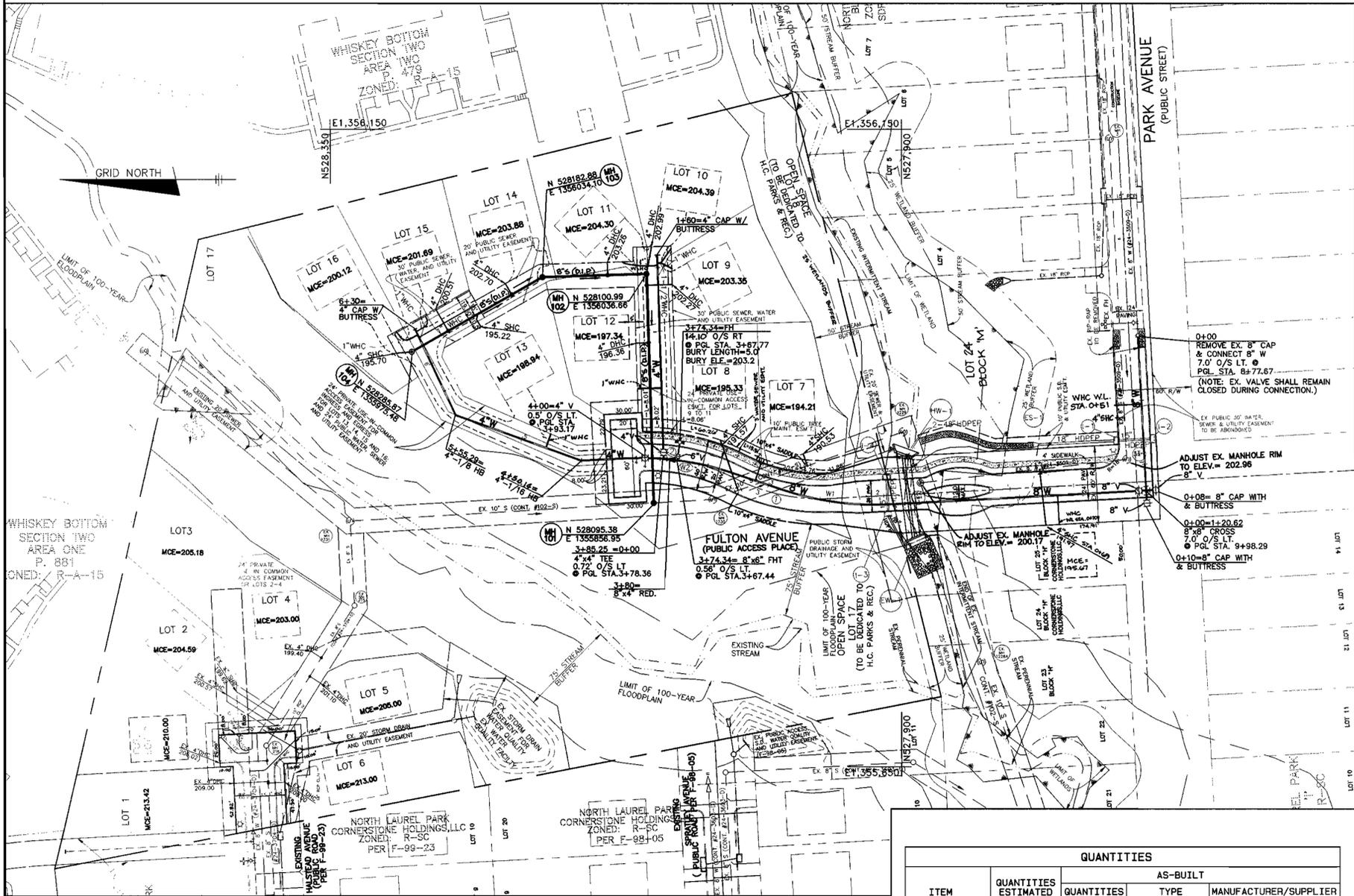
- PART 3 - SEWER**
- ALL SEWER MAINS SHALL BE DIP. AND P.V.C. UNLESS OTHERWISE NOTED.
 - ALL MANHOLES SHALL BE 4' - 0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
 - FORCE MAINS SHALL BE D.I.P. ONLY.
 - MANHOLES SHOWN WITH 12" AND 18" WALLS ARE FOR BRICK MANHOLES ONLY.
 - MANHOLES DESIGNATED "T.Y." IN PLAN AND PROFILE SHALL HAVE WATER TIGHT FRAME AND COVERS. STANDARD DETAIL 05 55. WHERE WATER TIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - HOUSE (S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.



WATER AND SEWER COUNTY CODE		TYPE OF BUILDING : SINGLE FAMILY DETACHED	
WATER CODE:	605	NUMBER OF LOTS :	19 (2 LOTS ARE OPEN SPACE)
SEWER CODE:	7141500	NUMBER OF SHCS :	11
TEST GRADIENT:	550	NUMBER OF WHO'S :	11
		DRAINAGE AREA :	PATUXENT
		TREATMENT PLANT :	LITTLE PATUXENT

LEGEND

EXIST. WATER MAIN	
EXIST. SEWER MAIN	
EXIST. SEWER MANHOLE	
PROP. WATER MAIN	
PROP. SEWER MAIN	
PROP. STORM DRAIN	
PROP. SEWER MANHOLE	
PROP. TERMINAL MANHOLE	
PROP. DROP SEWER HOUSE CONNECTION	
PROP. SEWER HOUSE CONNECTION	
PROP. WATER HOUSE CONNECTION (DOUBLE - 1 1/2")	
PROP. WATER HOUSE CONNECTION (SINGLE - 1")	
PROP. FIRE HYDRANT	
PROP. VALVE	
PROP. PLUG & BUTTRESS	



QUANTITIES

ITEM	QUANTITIES ESTIMATED	AS-BUILT	
		QUANTITIES	TYPE MANUFACTURER/SUPPLIER
8" WATER	572 L.F.		
4"x4" CBE	1 EA.		
8" VALVES	3 EA.		
4" VALVES	2 EA.		
8" x 8" FIT	1 EA.		
FIRE HYDRANTS	1 EA.		
8"x4" REDUCER	1 EA.		
404 L.F.			
10"x4" SADDLE	2 EA.		
1" WHC	205 L.F.		
1 1/2" WHC	301 L.F.		
8" SEWER (DIP)	301 L.F.		
MANHOLES	4 EA.		
4" DHC	128 L.F.		

NAME OF UTILITY CONTRACTOR:
SURVEY AND DRAFTING AS-BUILT DATE:

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

Spencer L. Adley 9/24/99
HOWARD SOIL CONSERVATION DISTRICT

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Cheryl Starnes 9/24/99
NATURAL RESOURCES CONSERVATION SERVICE

OWNER/DEVELOPER
CORNERSTONE HOLDINGS, L.L.C.
9691 NORFOLK AVENUE
LAUREL, MARYLAND 20723
410-792-2565

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Michael A. Gammillo 9/22/99
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Harold W. ... 9/22/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION

BENCHMARK ENGINEERING, INC.
9490 BALTIMORE NATIONAL PIKE • SUITE 418 • ELLICOTT CITY, MARYLAND 21043
PHONE: 410-485-8105 FAX: 410-485-8644

Doreen Mann

DES:	YSL				
DRN:	YSL				
CHK:	CAM				
DATE:	3/99	MLV	1	ADD WHC, LOT 24	3-24-00
	6/99	BY	NO.	REVISIONS	DATE

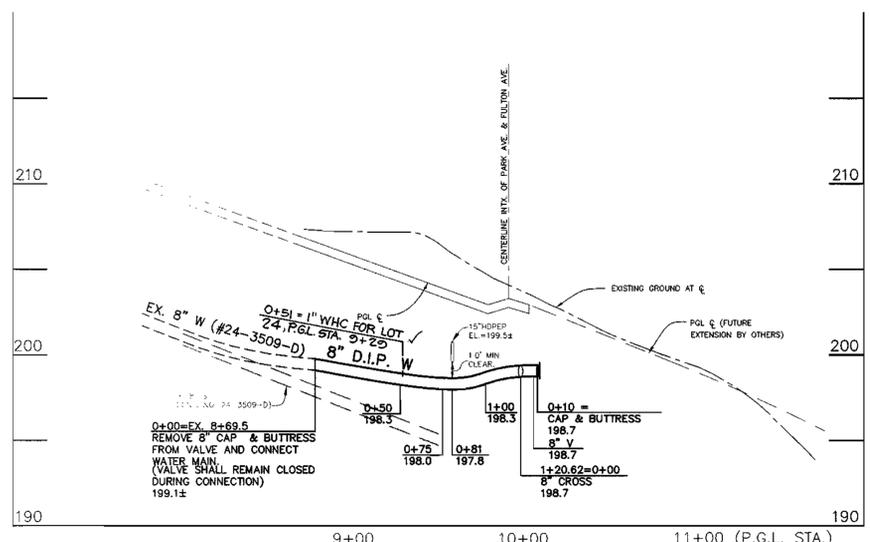
**WATER & SEWER EXTENSION
PLAN AND TITLE SHEET**

600 SCALE MAP NO. 50 BLOCK "3"

PATUXENT RIDGE
LOTS 1 THRU 18
AND LOT 25 BLOCK 'H'
HOWARD COUNTY ELECTION DISTRICT NO. 6

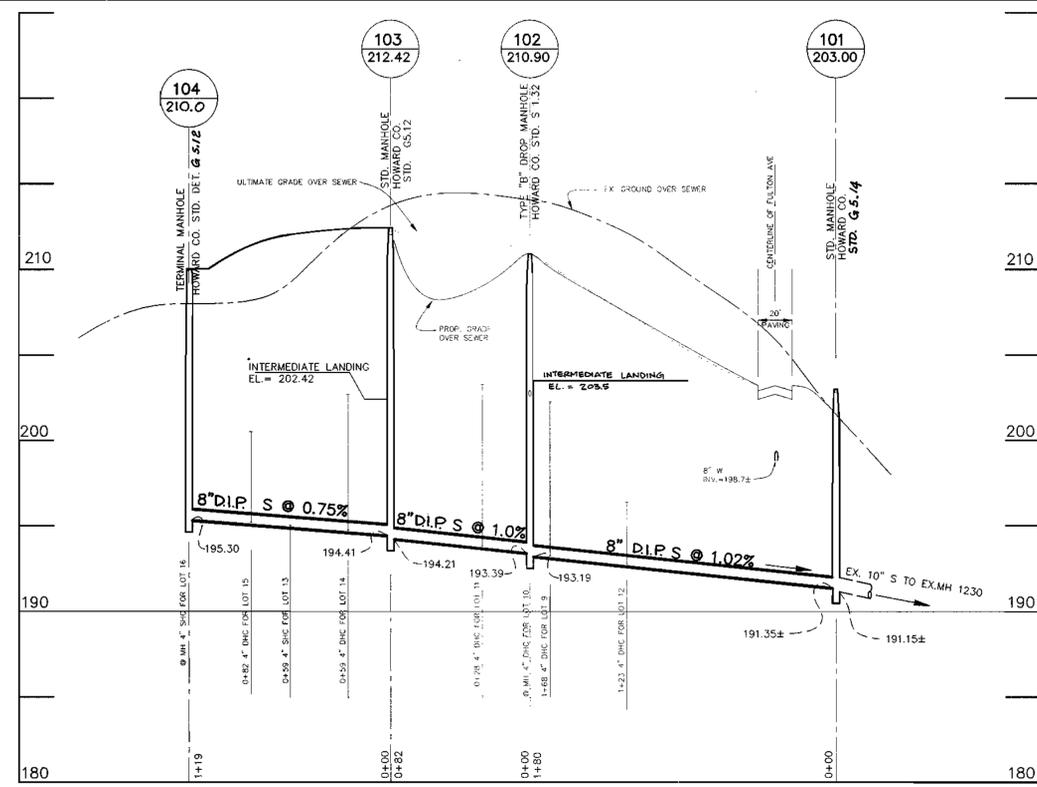
CONTRACT NO. 24-3722-D

SCALE AS SHOWN
SHEET 1 OF 2



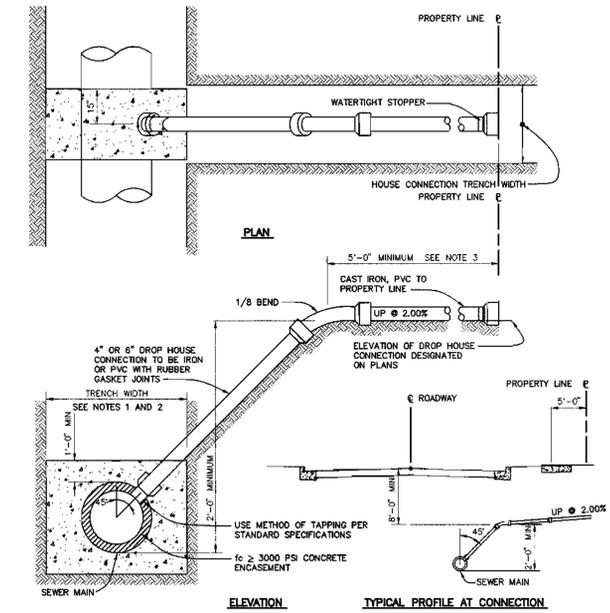
WATER MAIN AT PARK AVENUE

SCALE: HORT.: 1" = 50'
VERT.: 1" = 5'



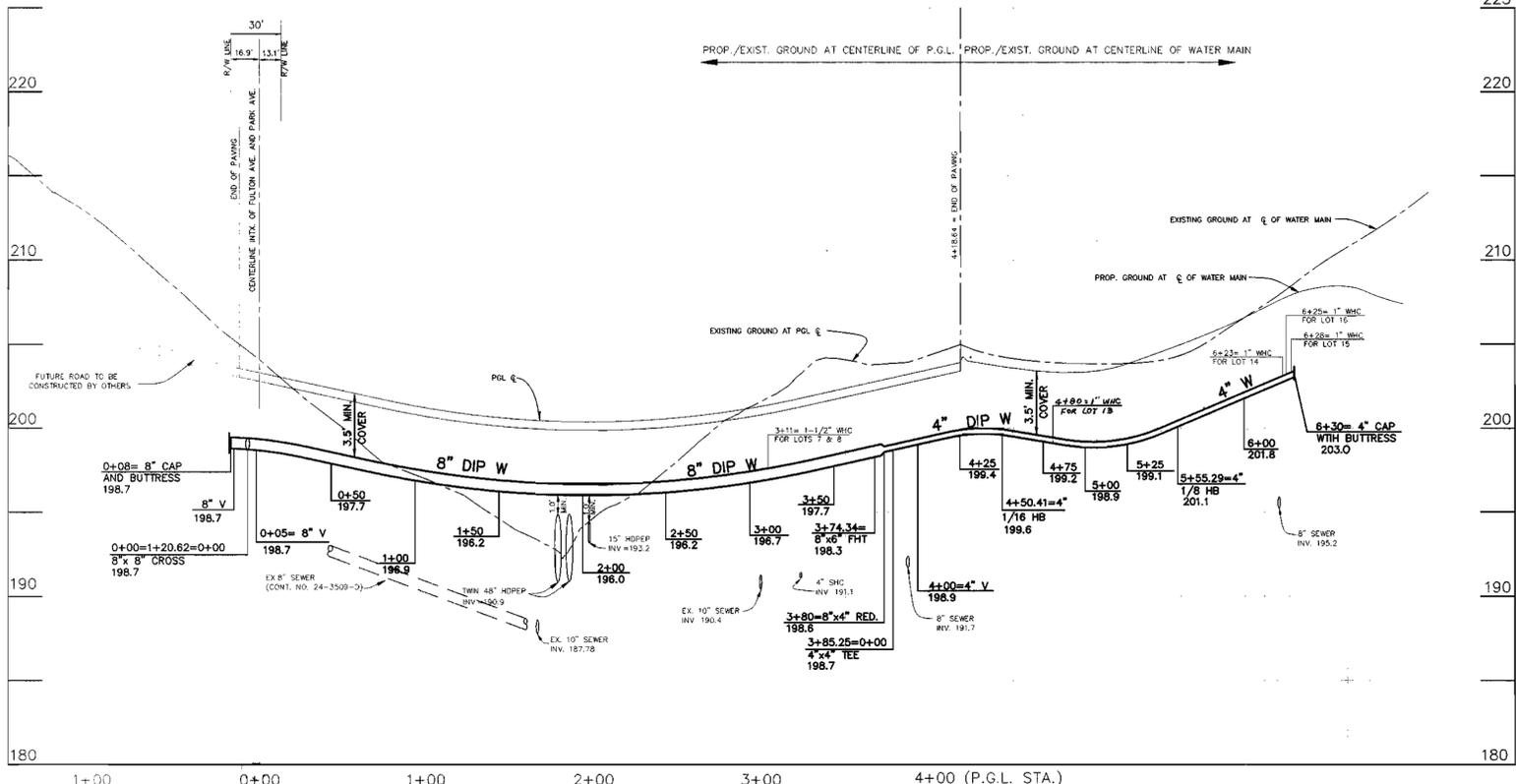
8" SEWER PROFILE

SCALE: HORT.: 1" = 50'
VERT.: 1" = 5'



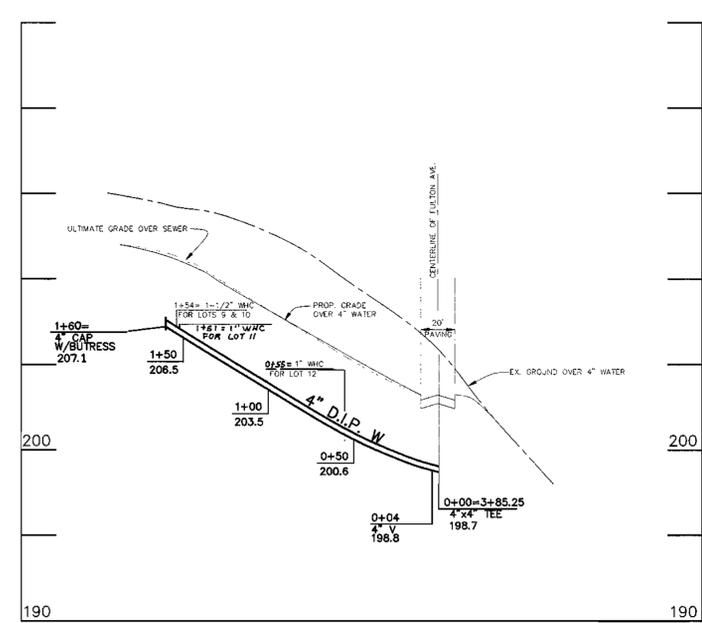
4" DROP HOUSE CONNECTION TO SEWER MAIN

NOT TO SCALE
HOWARD COUNTY DESIGN MANUAL - VOL II
WATER AND SEWER - APPENDIX 13



WATER MAIN PROFILE AT FULTON AVE.

SCALE: HORT.: 1" = 50'
VERT.: 1" = 5'



4" WATER MAIN PROFILE

SCALE: HORT.: 1" = 50'
VERT.: 1" = 5'

OWNER/DEVELOPER
CORNERSTONE HOLDINGS, L.L.C.
9691 NORFOLK AVENUE
LAUREL, MARYLAND 20723
410-792-2565

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Michael A. Buranillo
CHIEF, BUREAU OF UTILITIES
DATE: 9/22/99

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
Harold C. ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 9/22/99

BENCHMARK ENGINEERING, INC.
ENGINEERS - LAND SURVEYORS - PLANNERS
2480 BALTIMORE NATIONAL PIKE, SUITE 418 - ELLICOTT CITY, MARYLAND 21043
PHONE: 410-465-8100 FAX: 410-465-6644

Donald M. ...

DES:	YSL				
DRN:	YSL				
CHK:	CAM				
DATE:	3/99	MLV	I	ADD WHC, LOT 24, REV. MH 104 RIM ELEV.	3-24-00
	6/99	BY	NO.	REVISIONS	DATE

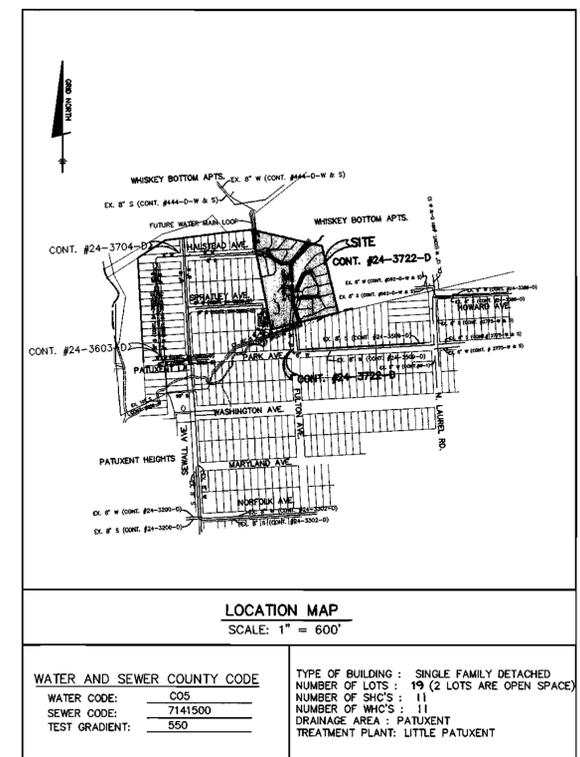
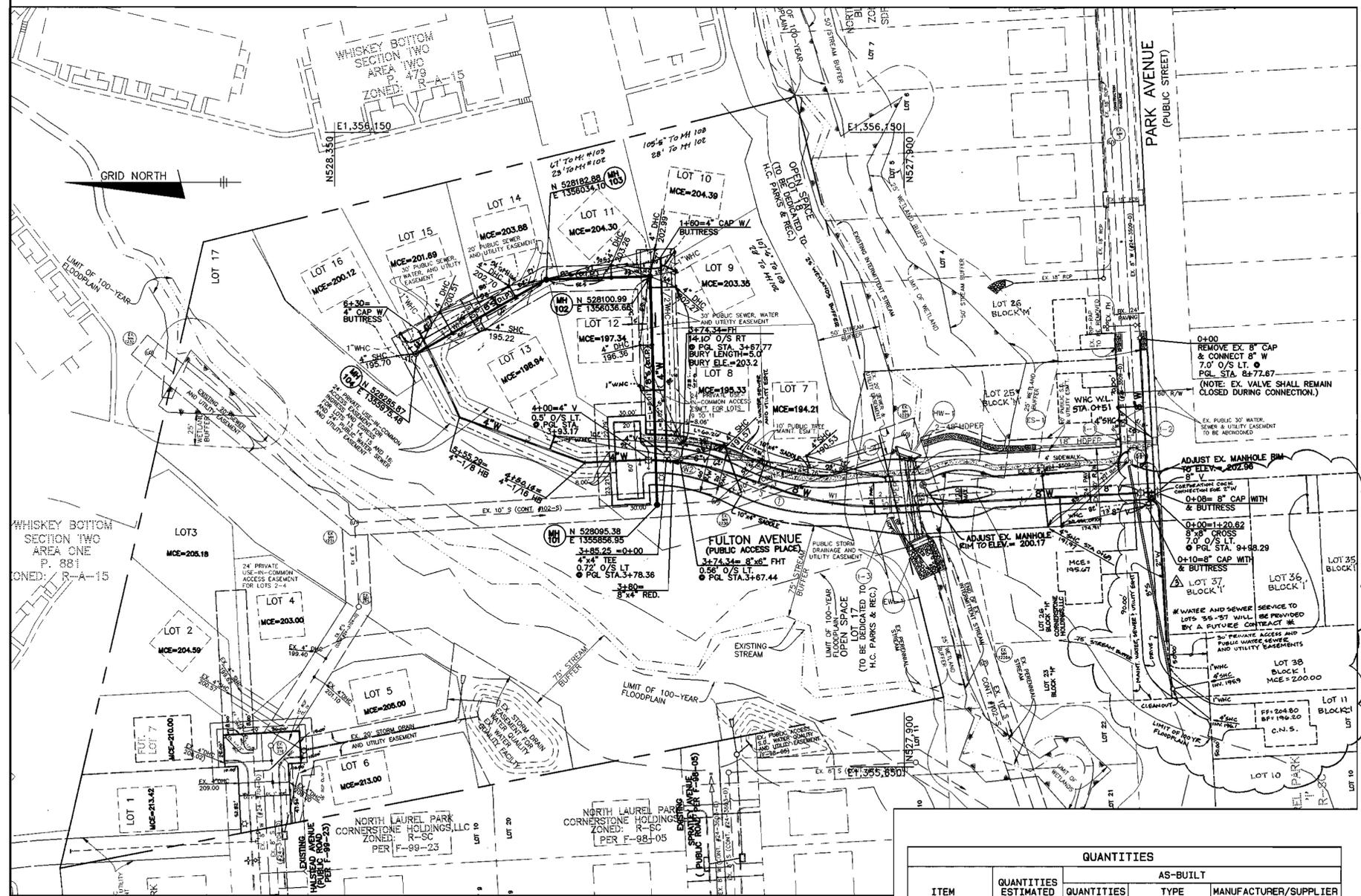
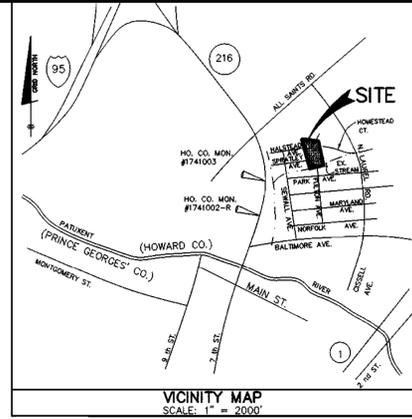
WATER & SEWER EXTENSION PROFILES
600 SCALE MAP NO. 50
BLOCK "3"

PATUXENT RIDGE
LOTS 1 THRU 18
AND LOT 25 BLOCK "H"
HOWARD COUNTY ELECTION DISTRICT NO. 6
CONTRACT NO. 24-3722-D

SCALE AS SHOWN
SHEET 2 OF 2

WATER AND SEWER MAIN EXTENSIONS CONTRACT NO. 24-3722-D

PATUXENT RIDGE 6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND



BENCHMARK DATA

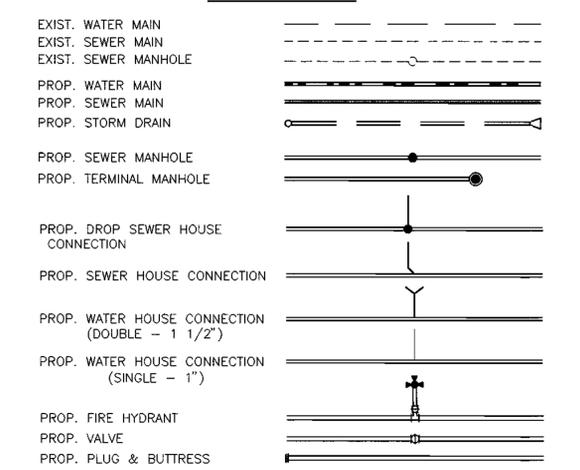
HOWARD COUNTY MON. # 1741003
CONC. MON. ON WEST SIDE OF
RTE. 216 AND 0.2' BELOW SURFACE.
ELEV. = 198.395

HOWARD COUNTY MON. # 1741002-R
CONC. MON. ON TOP OF BANK
EAST OF EAST EDGE MAC OF
RTE. 216 FLUSH WITH SURFACE.
ELEV. = 197.368

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 ENGINEER AT THE CONTRACTOR'S EXPENSE.
2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES (NAD 83).
3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.
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. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE 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.
6. FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATIONS AND DETAIL FOR CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
7. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL Φ 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.
8. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - STATE HIGHWAY ADMINISTRATION..... 410-531-5533
 - BALTIMORE GAS & ELECTRIC CO. 410-950-4620
 - CONTRACTOR SERVICES..... 410-860-4620
 - BALTIMORE GAS & ELECTRIC CO. 410-950-9098
 - UNDERGROUND DAMAGE CONTROL..... 410-787-7000
 - MISS UTILITY..... 410-600-267-7777
 - COLONIAL PIPELINE CO..... 410-795-1990
 - BUREAU OF UTILITIES.....
 - HOWARD CO. DEPT. OF PUBLIC WORKS..... 410-313-4900
9. 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.
10. 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.
11. PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE OPERATIONS.
12. ALL WATER MAINS TO BE D.I.P. UNLESS OTHERWISE NOTED.
13. TOP OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" TO 4' COVER UNLESS OTHERWISE NOTED.
14. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
15. 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 DPM REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

LEGEND



QUANTITIES				
ITEM	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" WATER	812 L.F.	812 L.F.	DIP G.C.S.T.V.	ATLANTIC STATES/A-1
8" x 4" TE	1 EA.	1 EA.	M.J. CLASS 52	TRIER FIRE
8" x 4" REDUCER	1 EA.	1 EA.		
8" VALVES	3 EA.	3 EA.	M.J. CLASS 52	MUELLER / A-1
4" VALVES	2 EA.	2 EA.		
4" x 2" F.F.H.T.	1 EA.	1 EA.	5.0" BURY ALBS	MUELLER / A-1
FIRE HYDRANTS	1 EA.	1 EA.	M.J. CLASS 52	MUELLER / A-1
8" x 4" REDUCER	1 EA.	1 EA.	DIP G.C.S.T.V.	ATLANTIC STATES/A-1
4" VALVES	40 EA.	40 EA.		SCHUBERT / A-1
10" x 4" SADDLE	2 EA.	2 EA.		CHORLEIGH - LBETA-1
1" x 1/2" W.H.C.	30 L.F.	30 L.F.		
8" SEWER (DIP)	881 L.F.	881 L.F.	CLAS T.S.	ATLANTIC STATES/A-1
MANHOLES	108 EA.	108 EA.		ATLANTIC STATES/A-1
4" D.H.C.	128 L.F.	128 L.F.	P.V.C. SDR 35	ATLANTIC STATES/A-1

NAME OF UTILITY CONTRACTOR:
SURVEY AND DRAFTING AS-BUILT DATE:

PLAN VIEW
SCALE: 1" = 50'

WATER MAIN CRIMP RADIUS DATA

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA	P.C. STA.	P.T. STA.
W1	230.00'	86.56'	43.80'	86.05'	N07°42'08"E	21°33'47"	2+02.07	2+88.63
W2	230.00'	85.22'	43.11'	84.73'	N07°52'08"E	21°13'47"	3+29.23	4+14.45

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

Shirley L. ... 9/24/99
HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND PER F-99-147

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Cheryl Simmons 9/24/99
NATURAL RESOURCES CONSERVATION SERVICE DATE

OWNER/DEVELOPER
CORNERSTONE HOLDINGS, L.L.C.
9691 NORFOLK AVENUE
LAUREL, MARYLAND 20723
410-792-2565

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Michael A. ... 9/22/99
CHIEF, BUREAU OF UTILITIES RMB DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

... 9/21/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

BENCHMARK
ENGINEERING, INC.

Donald Man

8480 BALTIMORE NATIONAL PIKE - SUITE 418 - ELLICOTT CITY, MARYLAND 21043
PHONE: 410-485-5105 FAX: 410-485-8544

DES: YSL			
DRN: YSL			
CHK: CAM	DBT	ADD 6'S AND 2'W ALONG PARK AVE. (WEST SIDE OF FULTON AVE.)	3-16-02
	K.C.I.	AS-BUILT CONDITIONS ADDED TO PLAN	11/24/00
	MLV	ADD WHC, LOT 24	3-24-00
DATE: 3/99			
DATE: 6/99	BY NO.	REVISIONS	DATE

**WATER & SEWER EXTENSION
PLAN AND TITLE SHEET**

600 SCALE MAP NO. 50 BLOCK "3"

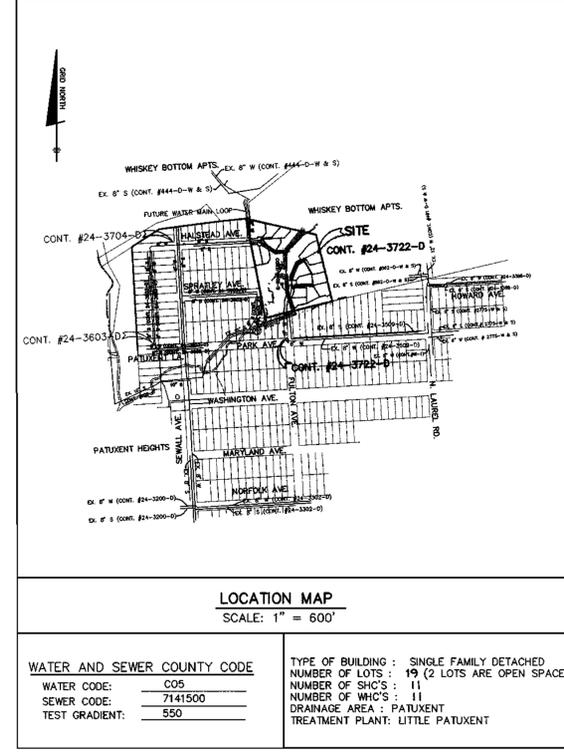
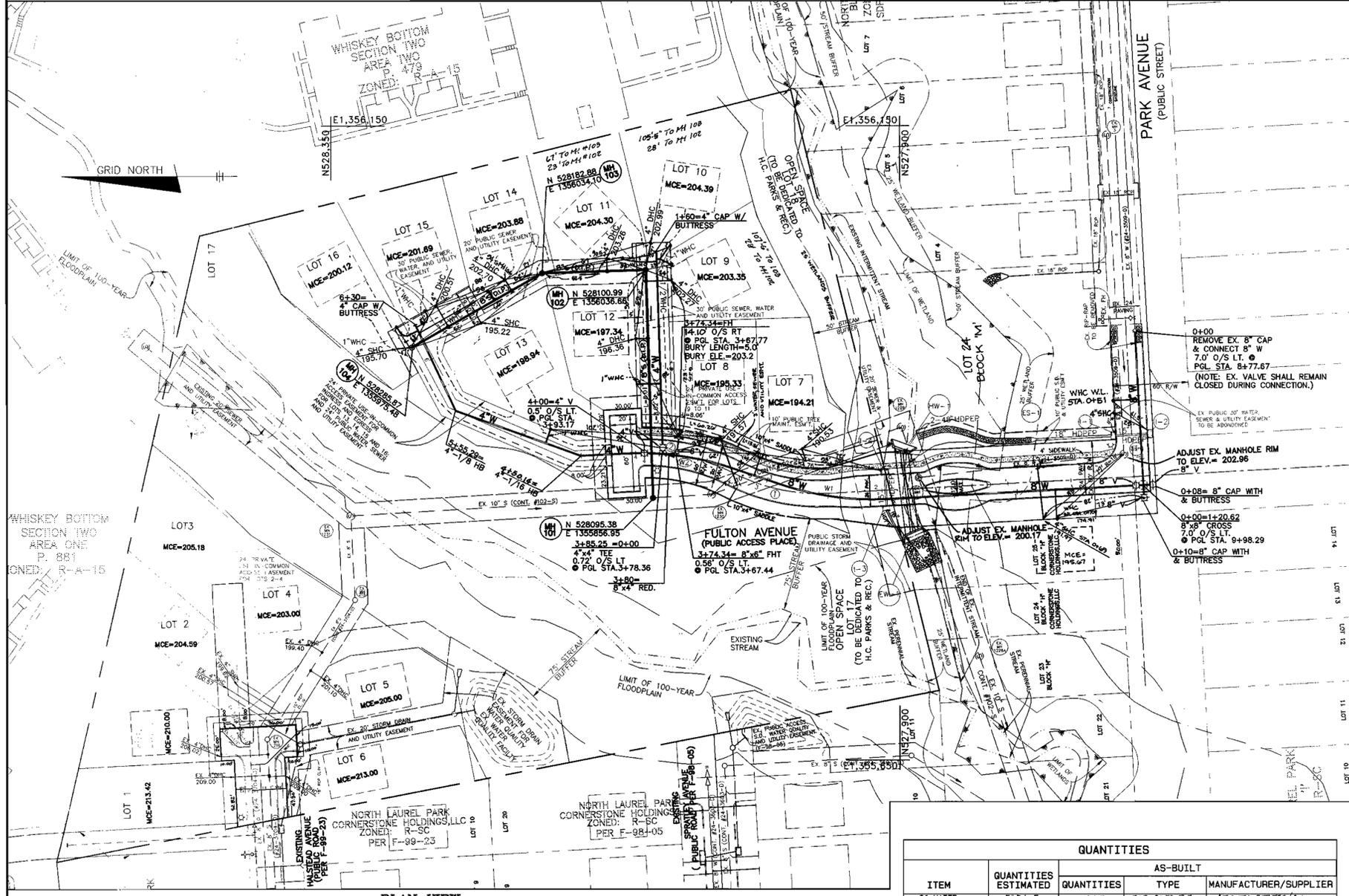
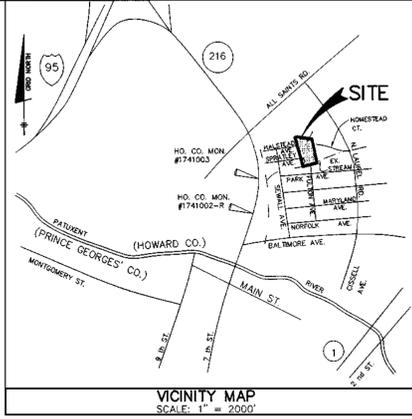
PATUXENT RIDGE
LOTS 1 THRU 18
AND LOT 25 BLOCK 'H'
HOWARD COUNTY ELECTION DISTRICT NO. 6

CONTRACT NO. 24-3722-D

SCALE AS SHOWN
SHEET 1 OF 2

WATER AND SEWER MAIN EXTENSIONS CONTRACT NO. 24-3722-D

PATUXENT RIDGE 6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND



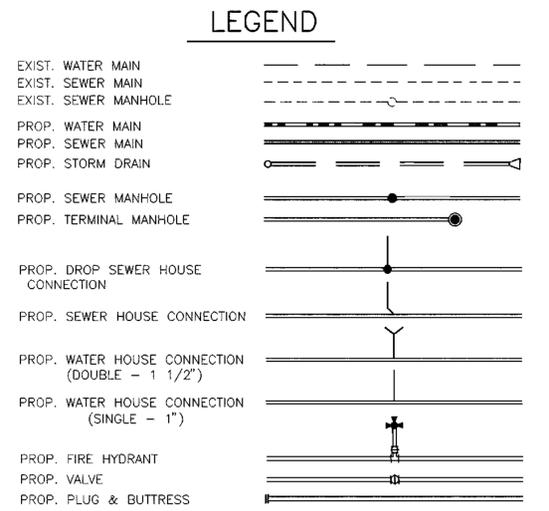
BENCH MARK DATA

HOWARD COUNTY MON. # 1741003
CONC. MON. ON WEST SIDE OF
RTE. 216 AND 0.2' BELOW SURFACE.
ELEV. = 198.395

HOWARD COUNTY MON. # 1741002-R
CONC. MON. ON TOP OF BANK
EAST OF EAST EDGE MAC. OF
RTE. 216 WITH SURFACE.
ELEV. = 197.368

GENERAL NOTES

- PART 1 - 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 (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 THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE 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 DETAIL FOR CONSTRUCTION. 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 410-531-5533
 - BALTIMORE GAS & ELECTRIC CO. CONTRACTOR SERVICES 410-950-4620
 - BALTIMORE GAS & ELECTRIC CO. UNDERGROUND DAMAGE CONTROL 410-797-9058
 - MISS UTILILITY 410-257-7777
 - COLONIAL PIPELINE CO. 410-795-1390
 - BUREAU OF UTILITIES
 - HOWARD CO. DEPT. OF PUBLIC WORKS 410-313-4900
 - 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.
 - PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE OPERATIONS.
 - ALL WATER MAINS TO BE D.I.P. UNLESS OTHERWISE NOTED.
 - TOP OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" TO 4' COVER UNLESS OTHERWISE NOTED.
 - VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
 - 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 2 - 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" TO 4' 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 ON 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 SECTION 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 INVERT METER SETTINGS UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
- PART 3 - SEWER**
- ALL SEWER MAINS SHALL BE DIP. AND 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 M.T. IN PLAN AND PROFILE SHALL BE WATER TIGHT FRAME AND COVERS, STANDARD DETAIL GS 52, WHERE WATER TIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-0" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - HOUSE (H) BY THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.



QUANTITIES

ITEM	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" WATER	819 L.F.	512 L.F.	DIP 6082 T.O.	ATLANTIC STATES/A-1
4"x4" TEE	1 EA.	1	M.I.C. 42552	TULER PIPE
4" X 8" CROSS	1 EA.	1	M.I.C. 42552	TULER PIPE
4" VALVES	3 EA.	3	M.I.C. 42552	MULLER / A-1
4" VALVES	2 EA.	2	M.I.C. 42552	MULLER / A-1
4" VALVES	1 EA.	1	M.I.C. 42552	MULLER / A-1
FIRE HYDRANTS	1 EA.	1	6.0" BURY 4823	MULLER / A-1
8"x4" REDUCER	1 EA.	1	M.I.C. 42552	TULER PIPE / A-1
4" WATER	404 L.F.	300 L.F.	DIP 6082 T.O.	ATLANTIC STATES/A-1
10"x4" SADDLE	2 EA.	2	317	SHILB BLA/10-1
1" W.C.	205 L.F.	205 L.F.	TYPE 1	CONCRETE - L&B/10-1
1 1/2" W.C.	30 L.F.	30 L.F.	TYPE 1	CONCRETE - L&B/10-1
8" SEWER (DIP)	381 L.F.	381 L.F.	CL 2	ATLANTIC STATES/A-1
MANHOLES	4 EA.	4 EA.	P.V.C. SDR 35	ATLANTIC STATES/A-1
4" S.H.	1 EA.	1 EA.	CL 2	ATLANTIC STATES/A-1
4" D.C.	128 L.F.	128 L.F.	CL 2	ATLANTIC STATES/A-1

NAME OF UTILITY CONTRACTOR: _____
SURVEY AND DRAFTING AS-BUILT DATE: _____

SHEET INDEX

SHEET NO	TITLE
1	PLAN AND TITLE SHEET
2	PROFILES

PLAN VIEW
SCALE: 1"=50'

WATER MAIN CRIMP RADIUS DATA

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA	P.C. STA.	P.T. STA.
W1	230.00'	86.56'	43.80'	86.05'	N07°42'08"E	21°33'47"	2+02.07	2+88.83
W2	230.00'	85.22'	43.11'	84.73'	N07°52'08"E	21°13'47"	3+29.23	4+14.45

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

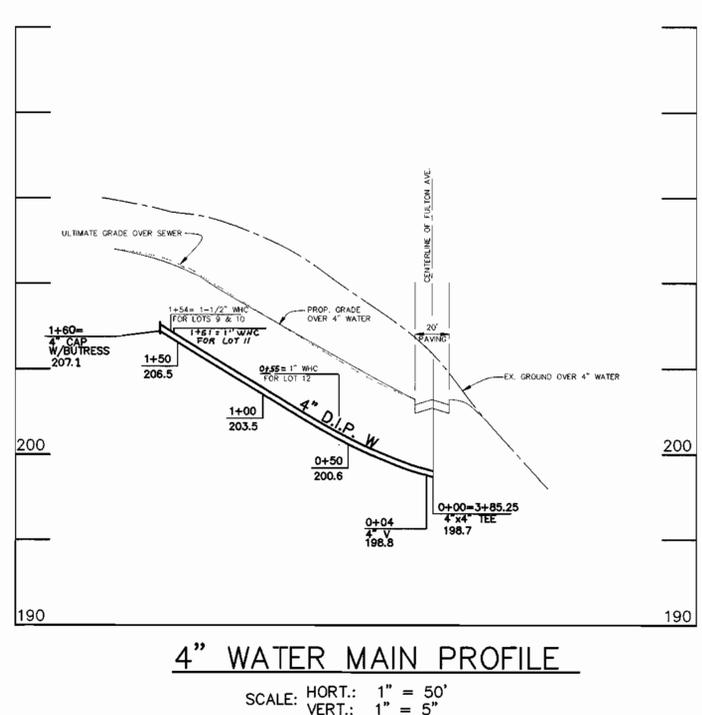
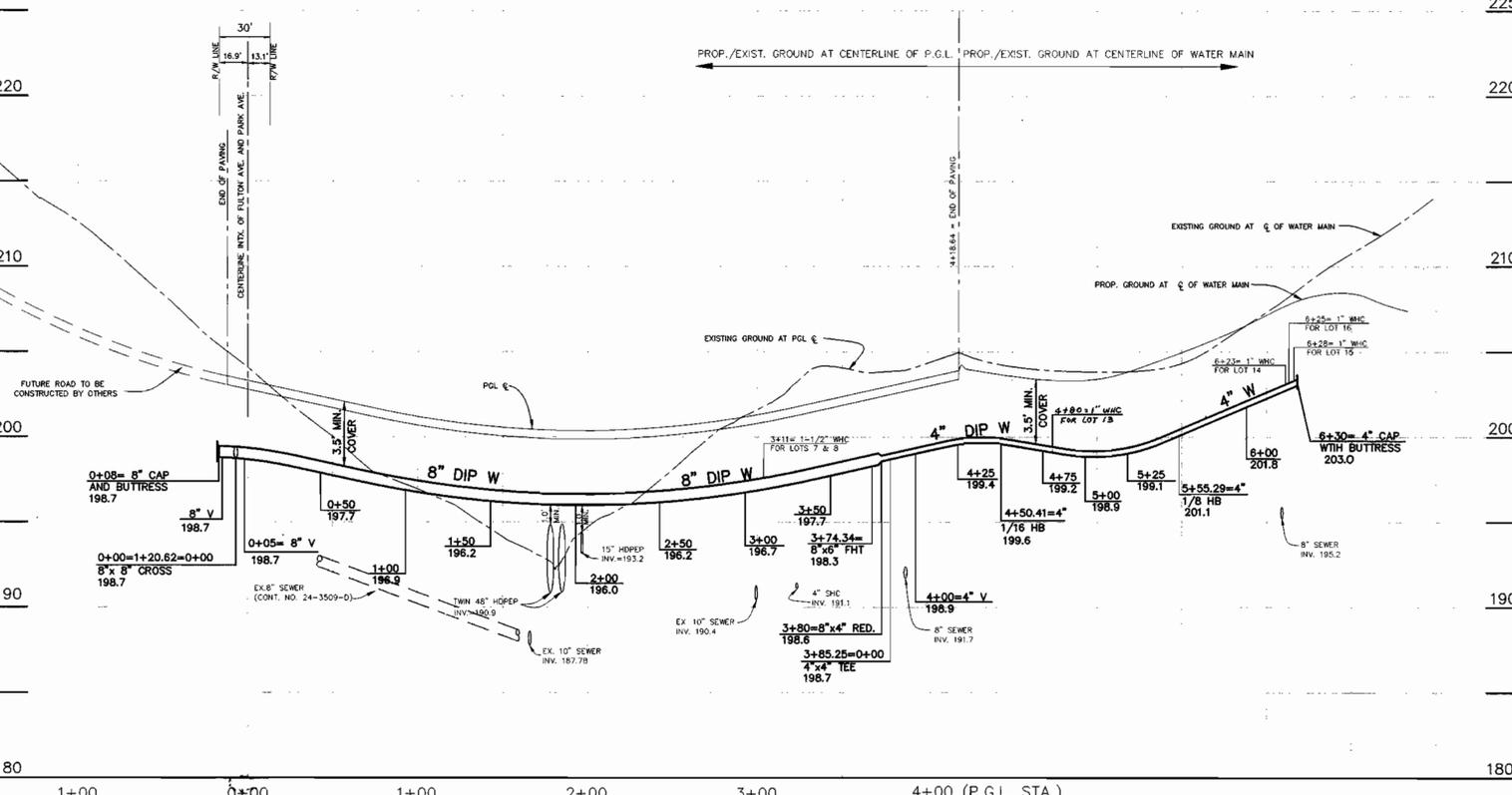
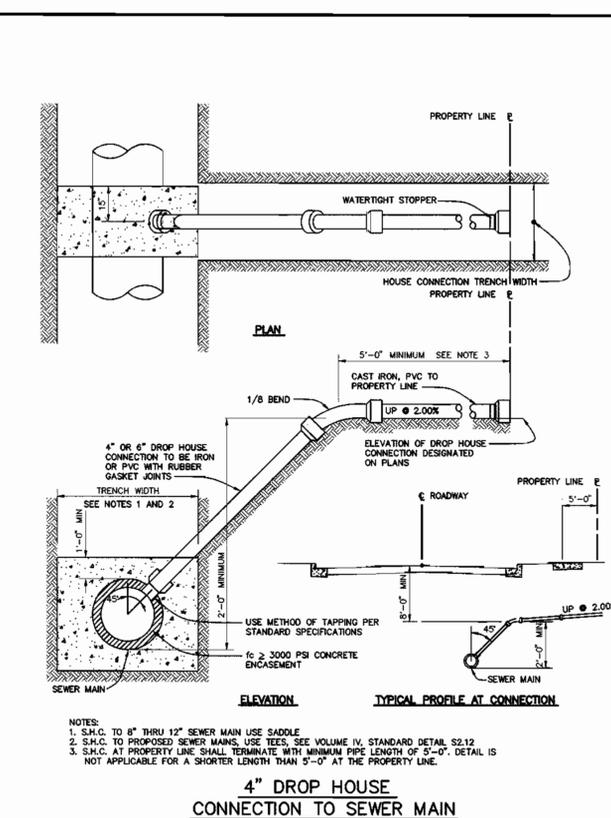
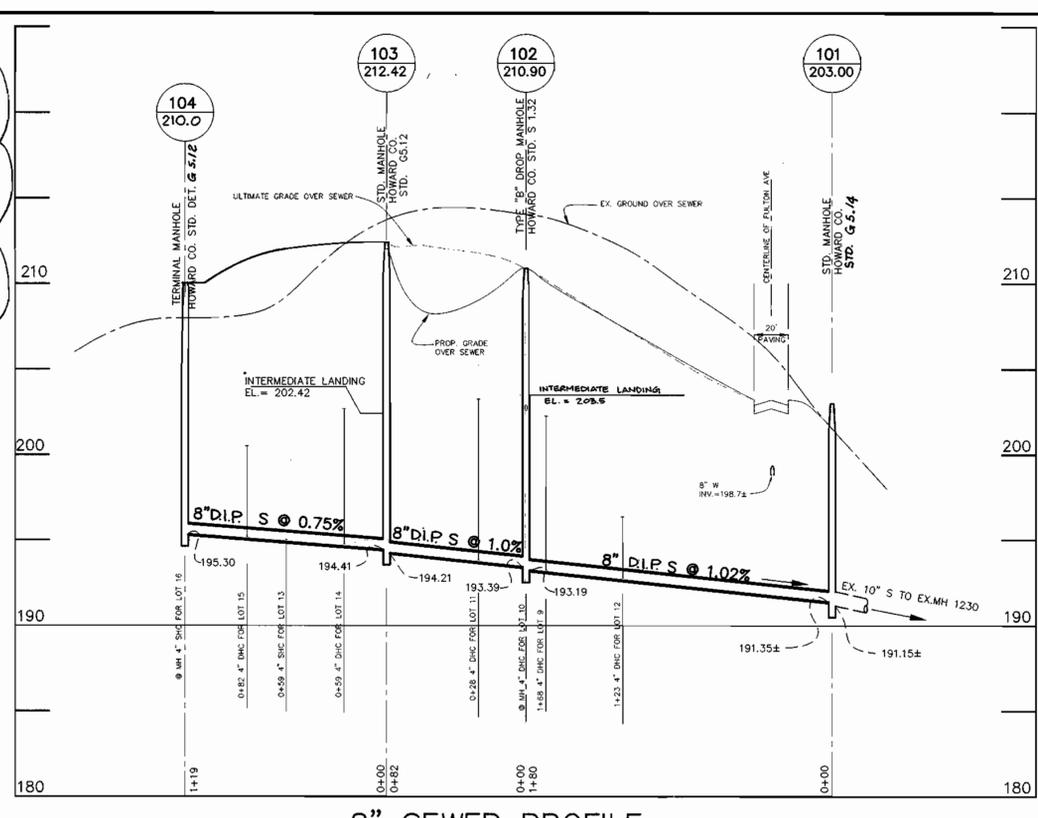
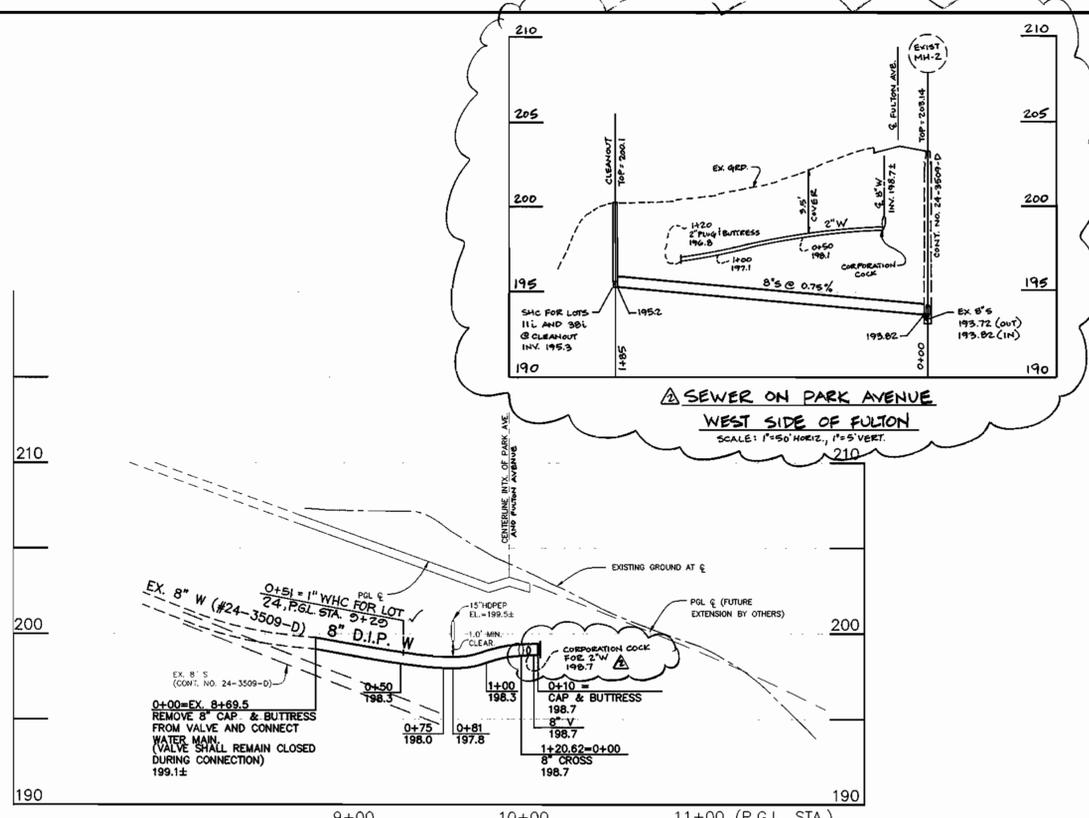
[Signature] 9/24/99
HOWARD SOIL CONSERVATION DISTRICT

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

[Signature] 9/24/99
NATURAL RESOURCES CONSERVATION SERVICE

OWNER/DEVELOPER
CORNERSTONE HOLDINGS, L.L.C.
9691 NORFOLK AVENUE
LAUREL, MARYLAND 20723
410-792-2565

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>[Signature]</i> 9/22/99 CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND <i>[Signature]</i> 9/27/99 CHIEF, DEVELOPMENT ENGINEERING DIVISION	BENCHMARK ENGINEERING, INC. 9480 BALTIMORE NATIONAL PIKE • SUITE 418 • ELICOTT CITY, MARYLAND 21043 PHONE: 410-465-6105 FAX: 410-465-6644 <i>[Signature]</i>	DES: YSL DRN: YSL CHK: CAM DATE: 9/99 BY: NO. REVISIONS: 1. AS-BUILT CONDITIONS ADDED TO PLAN 2. ADD WWC, LOT 24 DATE: 11/24/00 3-24-00	WATER & SEWER EXTENSION PLAN AND TITLE SHEET 600 SCALE MAP NO. 50 BLOCK "3"	PATUXENT RIDGE LOTS 1 THRU 18 AND LOT 25 BLOCK 'H' HOWARD COUNTY ELECTION DISTRICT NO. 6 CONTRACT NO. 24-3722-D SCALE AS SHOWN SHEET 1 OF 2
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OWNER/DEVELOPER
CORNERSTONE HOLDINGS, L.L.C.
9651 NORFOLK AVENUE
LAUREL, MARYLAND 20723
410-792-2565

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Michael A. Williams
CHIEF, BUREAU OF UTILITIES
DATE: 9/22/99

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
H. Williams
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 9/22/99

BENCHMARK ENGINEERING, INC.
ENGINEERS • LAND SURVEYORS • PLANNERS
8480 BALTHORE NATIONAL PIKE • SUITE 419 • ELLOTT CITY, MARYLAND 21043
PHONE: 410-465-6106 FAX: 410-465-6644

Donald M. ...

DES:	YSL				
DRN:	YSL				
CHK:	CAM	PBT	ADD PROFILE FOR 8" AND 2" W ALONG PARK AVE (WEST SIDE OF FULTON)	3-14-02	
DATE:	3/99	MLV	ADD WHC, LOT 24, REV. MH 104 RIM ELEV.	3-24-00	
	4/99	BY	NO.	REVISIONS	DATE

WATER & SEWER EXTENSION PROFILES
600 SCALE MAP NO. 50
BLOCK "3"

PATUXENT RIDGE
LOTS 1 THRU 18
AND LOT 25 BLOCK "H"
HOWARD COUNTY ELECTION DISTRICT NO. 6
CONTRACT NO. 24-3722-D
SCALE AS SHOWN
SHEET 2 OF 2