BENCH MARKS NAD 27 HO. CO. #1741003 CONCRETE MONUMENT ON WEST SIDE OF ROUTE 216 AND 0.2' BELOW SURFACE ELEV. 198.395

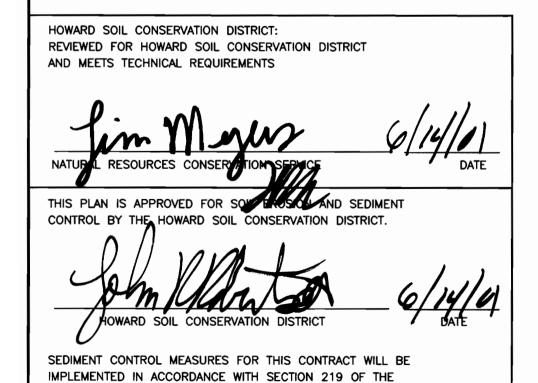
HO. CO. #1741002-R CONCRETE MONUMENT ON TOP OF BANK EAST OF EAST EDGE OF MAC. OF ROUTE 216 FLUSH WITH SURFACE ELEV. 197.368

SANITARY MANHOLE SCHEDULE				
MANHOLE	LOCATION	DESCRIPTION		
1	CL STA. 3+52.98 SEWALL AVENUE, OFFSET 17.0' LEFT	TYPE 'B' DROP MANHOLE, HO.CO. STD. S-1.32		
2	CL STA. 3+90.00 SEWALL AVENUE, OFFSET 20.0' RIGHT	STANDARD PRECAST MANHOLE, HO.CO. STD. G-5.11		
3	CL STA. 5+30.00 SEWALL AVENUE, OFFSET 20.0' RIGHT	STANDARD PRECAST MANHOLE, HO.CO. STD. G-5.11		
4	N 465970.49 E 842936.65	STANDARD PRECAST MANHOLE, HO.CO. STD. G-5.11		
5	CL STA. 1+66.09 MARYLAND AVENUE, OFFSET 5.24' LEFT	STANDARD PRECAST MANHOLE, HO.CO. STD. G-5.11		
6	CL STA. 2+80.16 MARYLAND AVENUE, OFFSET 7.0' LEFT	STANDARD PRECAST MANHOLE, HO.CO. STD. G-5.11		
7	CL STA. 3+18.88 MARYLAND AVENUE, OFFSET 7.0' LEFT	STANDARD PRECAST MANHOLE, HO.CO. STD. G-5.11		
8	CL STA. 4+67.38 MARYLAND AVENUE, OFFSET 7.0' LEFT	STANDARD PRECAST MANHOLE, HO.CO. STD. G-5.11		

	QUANTITIES				
ITEMS	QUANTITIES	AS-BUILT			
11 21413	ESTIMATED	QUANTITIES	TYPE	MANUF./SUPPLIER	
8" WATER	415 LF				
6" VALVES	1 EA.				
FIRE HYDRANTS	1 EA.				
1" WHC	110 LF				
1-1/2" WHC	160 LF				
8" SEWER D.I.P.	825 LF				
MANHOLES	8				
4" SHC	131 LF				
4" DHC	178 LF				
NAME OF UTILITY CONTRACTOR:					
SURVEY AND DRAF	SURVEY AND DRAFTING DIVISION AS-BUILT DATE:				

LEGEND

EXIST. WATER EXIST. SEWER EXIST. SEWER	MAIN	======================================	
PROP. WATER PROP. SEWER PROP. STORM (BY OTHER	MAIN DRAIN	•	
PROP. SEWER	MANHOLE	$\overline{}$	
PROP. SEWER	HOUSE CONNECTION		
	HOUSE CONNECTION - 1-1/2" x 1")		
(SINGL	HOUSE CONNECTION LE - 1")	×	3₁ }
PROP. FIRE H	IYDRANT		
PROP. VALVE		(



1. WATER HOUSE CONNECTIONS FOR BLOCK 'K' LOTS 29-32 ARE PROPOSED UNDER THIS CONTRACT. THE CONNECTIONS ARE TO BE MADE TO THE 8" WATER MAIN CONSTRUCTED

PUBLIC WATER AND SEWER PLANS NORTH LAUREL PARK

BLOCK 'J' LOTS 17-21 AND BLOCK 'K' LOTS 4-10 AND 30-32

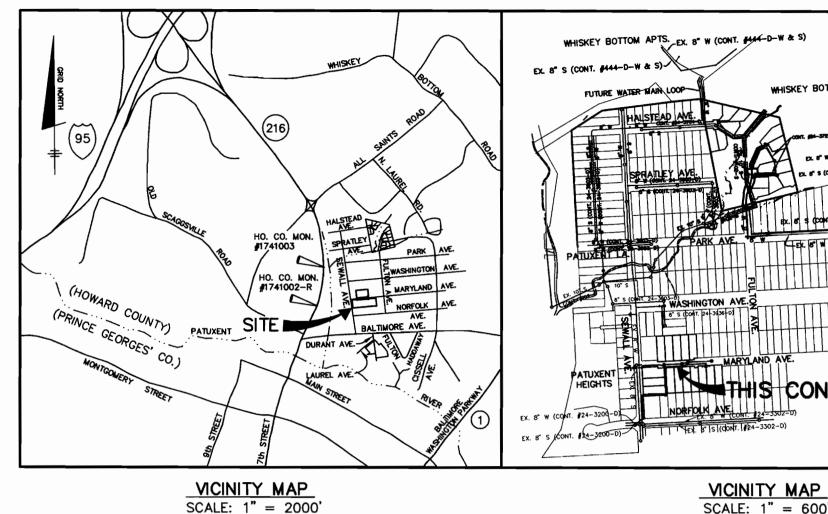
> 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT No. 24-3963-D

> > LOT 34 \ BLOCK 'U'

BLOCK 'U'

LOT 24

BLOCK 'U'



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 (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 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 DETAIL FOR CONSTRUCTION (LATEST. EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE

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 (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

STATE HIGHWAY ADMINISTRATION.... BGE CONTRACTOR SERVICES.... ...410-850-4620 BGE UNDERGROUND DAMAGE CONTROL410-291-4607 COLONIAL PIPELINE CO... BUREAU OF UTILITIES410-313-4900 BELL ATLANTIC ...

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.

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. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE (5) 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 3.5' COVER UNLESS

VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES. 4. 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. ALL WATER HOUSE CONNECTIONS SHALL BE 1 INCH.

8. FOR SPRINLKER SYSTEM FOR ALL TOWN HOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1' CONNECTION WITH A 3/4" METER. PART 3 — 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.

3. FORCE MAINS SHALL BE D.I.P. ONLY. 4. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY. 5. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE

FRAME AND COVER IS USED. SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.

HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE

LOT 17 C. F. SE ST.	LOT 18 LOT 18 LOT 19 BLOCK 'J' BLOCK 'J'
LOT 15 Co. Sect Sect	Septical Procession
JACKSON COURT (PUBLIC STREET - 50' R/W) EX. 15' ROP EX. 5' W (CONT. 124-3200-0) EX. 5' S O 0.5%(CONT. 124-3200-0)	ECT 14 BLOCK 'K' BLO
BUILD MANHOLE OVER TOP OF EXIST. 8' SEWER	JACKSON COURT (PUBLIC STREET - 50' R/M) DE ST ME CONT. 124-3200-0) EX. ST SO 0.53X(CONT. 124-3200-0) EX. ST SO 0.53X(C

UNDER CONTRACT NUMBER 24-3200-D.

SHEET INDEX DESCRIPTION TITLE SHEET AND PLAN VIEW PROFILES OF WATER AND SEWER MAINS

BLOCK 3

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

ROAD CONSTRUCTION PLANS F-01-101

HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER

PROP. PLUG & BUTTRESS

DEPARTMENT OF PLANNING AND ZONING

HOWARD COUNTY, MARYLAND

ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE A SUITE 418 PHONE: 410-465-6105 FAX: 410-465-6644

BENCHMARK

ENGINEERS A LAND SURVEYORS A PLANNERS



	DATE:	6/01	BY	NO.	REVISIONS	DATE
		12/00				
	CHEC	K: GWF				
	DRAW	N: DBT				
DESIGN: DBT						

CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE (1) LANE OF TRAFFIC

OPEN AT ALL TIMES ALONG SEWALL AVENUE. IF THE WORK WITHIN

SHALL INSTALL STEEL PLATES AT THE END OF EACH WORK DAY.

SEWALL AVENUE TAKES MORE THAN ONE (1) DAY, THE CONTRACTOR

PLAN OF WATER AND SEWER MAINS

600 SCALE MAP NO. 50

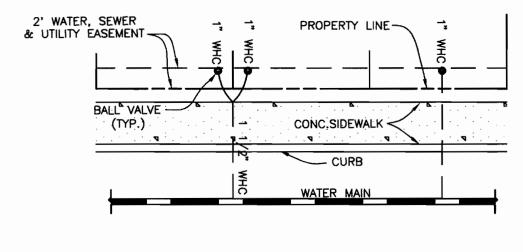
NORTH LAUREL PARK BLOCK 'J' LOTS 17-21 AND BLOCK 'K' LOTS 4-10 and 30-32 ELECTION DISTRICT NO. 6

CONTRACT NO. 24-3963-D

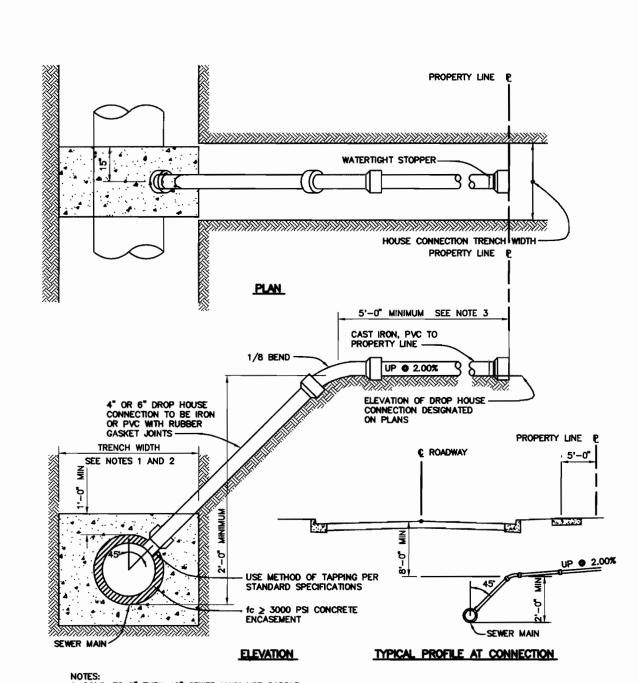
SHEET NO. 1 OF 2

SCALE:

AS SHOWN



TYPICAL WATER HOUSE CONNECTIONS NOT TO SCALE

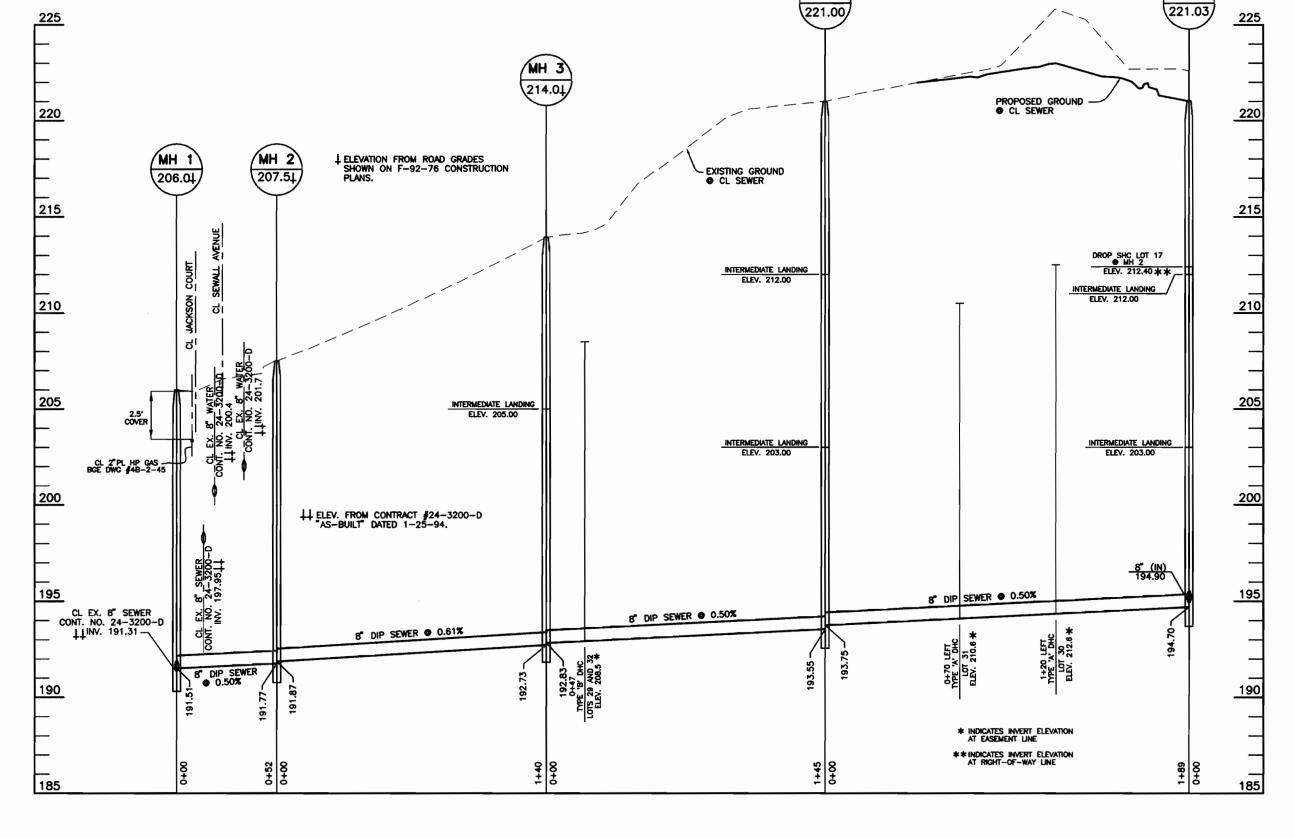


NOTES:

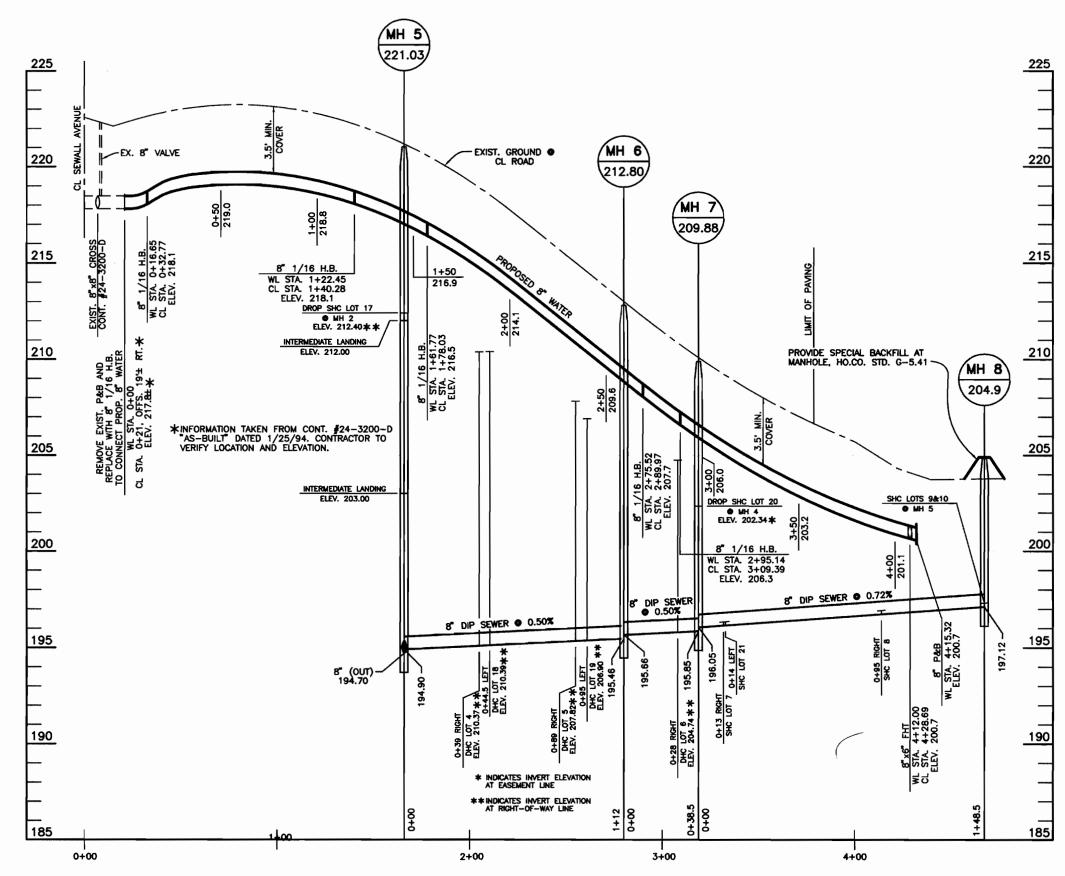
1. S.H.C. TO 8" THRU 12" SEWER MAIN USE SADDLE

2. S.H.C. TO PROPOSED SEWER MAINS, USE TEES, SEE VOLUME IV, STANDARD DETAIL S2.12

3. S.H.C. AT PROPERTY LINE SHALL TERMINATE WITH MINIMUM PIPE LENGTH OF 5'-0". DETAIL IS NOT APPLICABLE FOR A SHORTER LENGTH THAN 5'-0" AT THE PROPERTY LINE. 4"& 6" DROP HOUSE CONNECTION TO SEWER MAIN



SEWER PROFILE SCALE: 1" = 50' HORIZ., 1" = 5' VERT.



WATER AND SEWER PROFILE SCALE: 1" = 50' HORIZ., 1" = 5' VERT.

BLOCK 3

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

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE A SUITE 418

PHONE: 410-465-6105

ELLICOTT CITY, MARYLAND 21043

Donald Masn

DESIGN: DBT DRAWN: DBT CHECK: GWF TE: 12/00 BY NO. DATE 600 SCALE MAP NO. 50 **REVISIONS**

PROFILES OF WATER AND SEWER MAINS

NORTH LAUREL PARK BLOCK 'J' LOTS 17-21 AND BLOCK 'K' LOTS 4-10 and **30**-32 ELECTION DISTRICT NO. 6

SCALE: AS SHOWN

SHEET NO.

2 OF. 2

CONTRACT NO. 24-3963-D

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

HO. CO. #1741003 CONCRETE MONUMENT ON WEST SIDE OF ROUTE 216 AND 0.2' BELOW SURFACE

HO. CO. #1741002-R CONCRETE MONUMENT ON TOP OF BANK EAST OF EAST EDGE OF MAC. OF ROUTE 216 FLUSH WITH SURFACE

SANITARY MANHOLE SCHEDULE				
MANHOLE	LOCATION	DESCRIPTION		
1	CL STA. 3+52.98 SEWALL AVENUE, OFFSET 17.0' LEFT	TYPE 'B' DROP MANHOLE, HO.CO. STD. S-1.32		
2 .	CL STA. 3+90.00 SEWALL AVENUE, OFFSET 20.0' RIGHT	STANDARD PRECAST MANHOLE, HO.CO. STD. G-5.11		
3	CL STA. 5+30.00 SEWALL AVENUE, OFFSET 20.0' RIGHT	STANDARD PRECAST MANHOLE, HO.CO. STD. G-5.11		
4	N 465970.49 E 842936.65	STANDARD PRECAST MANHOLE, HO.CO. STD. G-5.11		
5	CL STA. 1+66.09 MARYLAND AVENUE, OFFSET 5.24' LEFT	STANDARD PRECAST MANHOLE, HO.CO. STD. G-5.11		
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8	CL STA. 4+67.38 MARYLAND AVENUE, OFFSET 7.0' LEFT	STANDARD PRECAST MANHOLE, HO.CO. STD. G-5.11		

QUANTITIES						
ITEMS	QUANTITIES	AS-BUILT				
TILIVIS	ESTIMATED	QUANTITIES	TYPE	MANUF./SUPPLIER		
				_		
8" WATER	415 LF	415 L.F	CRIFFILL DIP.	GRIFFIN HUGHES		
6" VALVES	1_EA.	IEA.	GATE	KENNOY HUGHES		
FIRE HYDRANTS	1 EA.	I EA.	KENNEDY	K " "		
1"_WHC	110 LF	270 L.F.	COPPER	HOWELL/HUGHES		
1-1/2" WHC	160 LF			·		
8" SEWER D.I.P.	825 LF	825 L.F.	GRIFFILI DIP	GRIFFIN HUGHES		
MANHOLES	* 8 ·	8	PRECAST	ATCANTIC / "		
4" SHC	131 LF	131 L.F.	GRIFFIN D.I.P.	GRIFFIN HUGHES		
4" DHC	178 LF	178 U.F.	t1 #	<u>'</u>		
Λ.						
NAME OF UTILITY CONTRACTOR: CAINES						
SURVEY AND DRAF	SURVEY AND DRAFTING DIVISION AS-BUILT DATE: //-/3-01					

LEGEND

EXIST. WATER MAIN EXIST. SEWER MAIN	
EXIST. SEWER MANHOLE	========
PROP. WATER MAIN	,
PROP. SEWER MAIN PROP. STORM DRAIN (BY OTHERS)	•
PROP. SEWER MANHOLE	· · · · · · · · · · · · · · · · · · ·
PROP. SEWER HOUSE CONNECTION	Y
PROP. WATER HOUSE CONNECTION (DOUBLE - 1-1/2" x 1")	
PROP. WATER HOUSE CONNECTION (SINGLE - 1")	
PROP. FIRE HYDRANT	
PROP. VALVE	
PROP. PLUG & BUTTRESS	

HOWARD SOIL CONSERVATION DISTRICT: REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

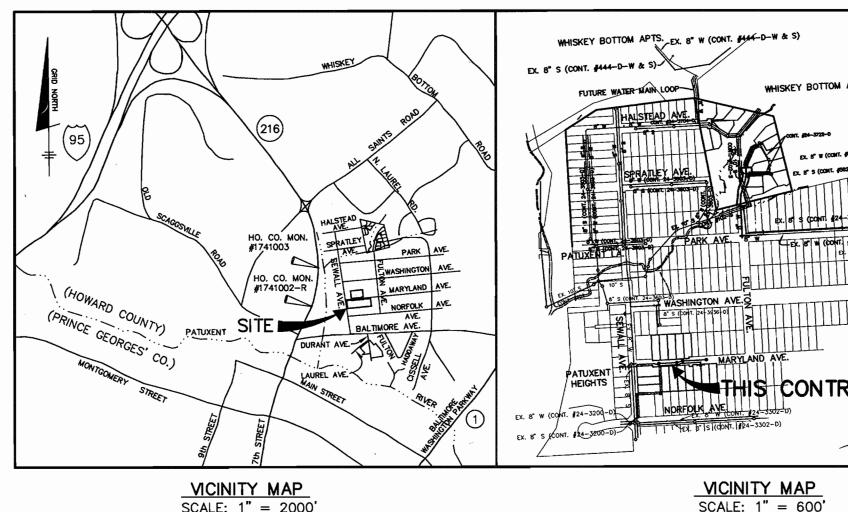
SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER ROAD CONSTRUCTION PLANS F-01-101

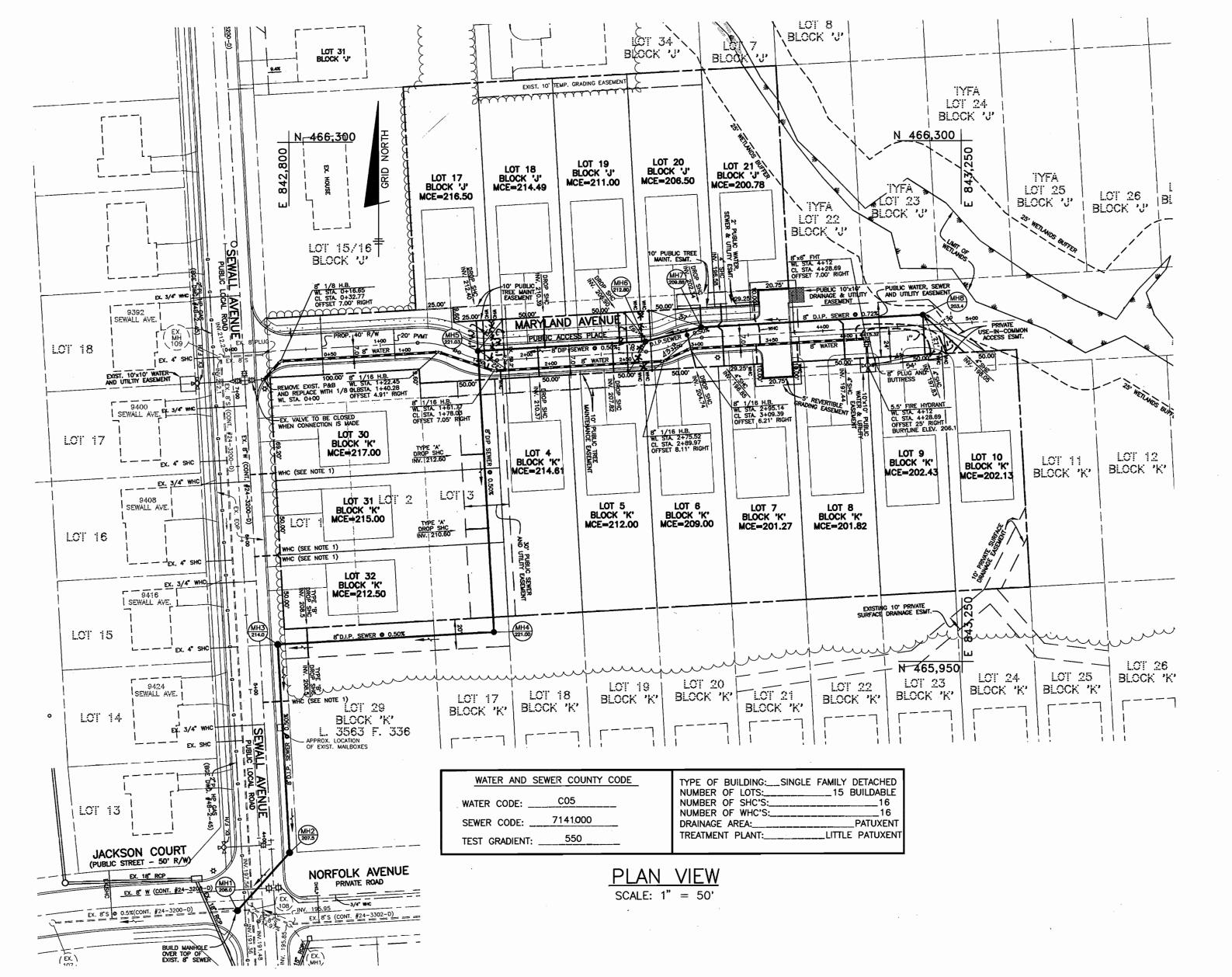
. WATER HOUSE CONNECTIONS FOR BLOCK 'K' LOTS 29-32 ARE PROPOSED UNDER THIS CONTRACT. THE CONNECTIONS ARE TO BE MADE TO THE 8" WATER MAIN CONSTRUCTED UNDER CONTRACT NUMBER 24-3200-D.

PUBLIC WATER AND SEWER PLANS NORTH LAUREL PARK

BLOCK 'J' LOTS 17-21 AND BLOCK 'K' LOTS 4-10 AND 30-32

> 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT No. 24-3963-D





CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE (1) LANE OF TRAFFIC OPEN AT ALL TIMES ALONG SEWALL AVENUE. IF THE WORK WITHIN SEWALL AVENUE TAKES MORE THAN ONE (1) DAY, THE CONTRACTOR SHALL INSTALL STEEL PLATES AT THE END OF EACH WORK DAY.

	SHEET INDEX
NO.	DESCRIPTION
1	TITLE SHEET AND PLAN VIEW
2	PROFILES OF WATER AND SEWER MAINS

BLOCK 3

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

(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.

2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE 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 UTILI' COMPANIES TO SCHEDULE THE BRACING OF THE POLES.

FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AN CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL VOLUM IV, STANDARD SPECIFICATIONS AND DETAIL FOR CONSTRUCTION (LATEST. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST

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 OF AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN

BGE UNDERGROUND DAMAGE CONTROL. ...410--291--4607 1-800-257-7777 COLONIAL PIPELINE CO... .410-549-4120 HOWARD CO. DEPT. OF PUBLIC WORKS BUREAU OF UTILITIES..... .410-313-4900 BELL ATLANTIC1-800-446-5266

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. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD

COUNTY, AT (410) 313-2450 AT LEAST FIVE (5) 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

ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.

TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3.5' COVER UNLESS

VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.

4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN

ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED 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. 6. 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. ALL WATER HOUSE CONNECTIONS SHALL BE 1 INCH.

3. FOR SPRINLKER SYSTEM FOR ALL TOWN HOMES OR MULTI—FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1' CONNECTION WITH A 3/4" METER. PART 3 - SEWER

1. ALL SEWER MAINS SHALL BE DIP OR P.V.C. UNLESS OTHERWISE NOTED. 2. ALL MANHOLES SHALL BE 4' - 0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.

3. FORCE MAINS SHALL BE D.I.P. ONLY. 4. 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 G5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.

HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE

PLAN OF WATER AND

NORTH LAUREL PARK BLOCK 'J' LOTS 17-21 AND

ELECTION DISTRICT NO. 6 CONTRACT NO. 24-3963-D SHEET NO. 1 OF 2

SCALE:

AS SHOWN

P:\PROJECTS\1329\dwg\6046.dwg, 06/04/2001 10:18:02 AM

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE A SUITE 418

ELLICOTT CITY, MARYLAND 21043

FAX: 410-465-6644

PHONE: 410-465-6105

DESIGN: DBT

DRAWN: DBT CHECK: GWF ASBUILT DATA ADDED KCI 2 10/06/02 12/00 KC.I 1 ASBUILT OATA ADDED 6/01 BY NO.

SEWER MAINS

600 SCALE MAP NO. 50

BLOCK 'K' LOTS 4-10 and 30 - 32

