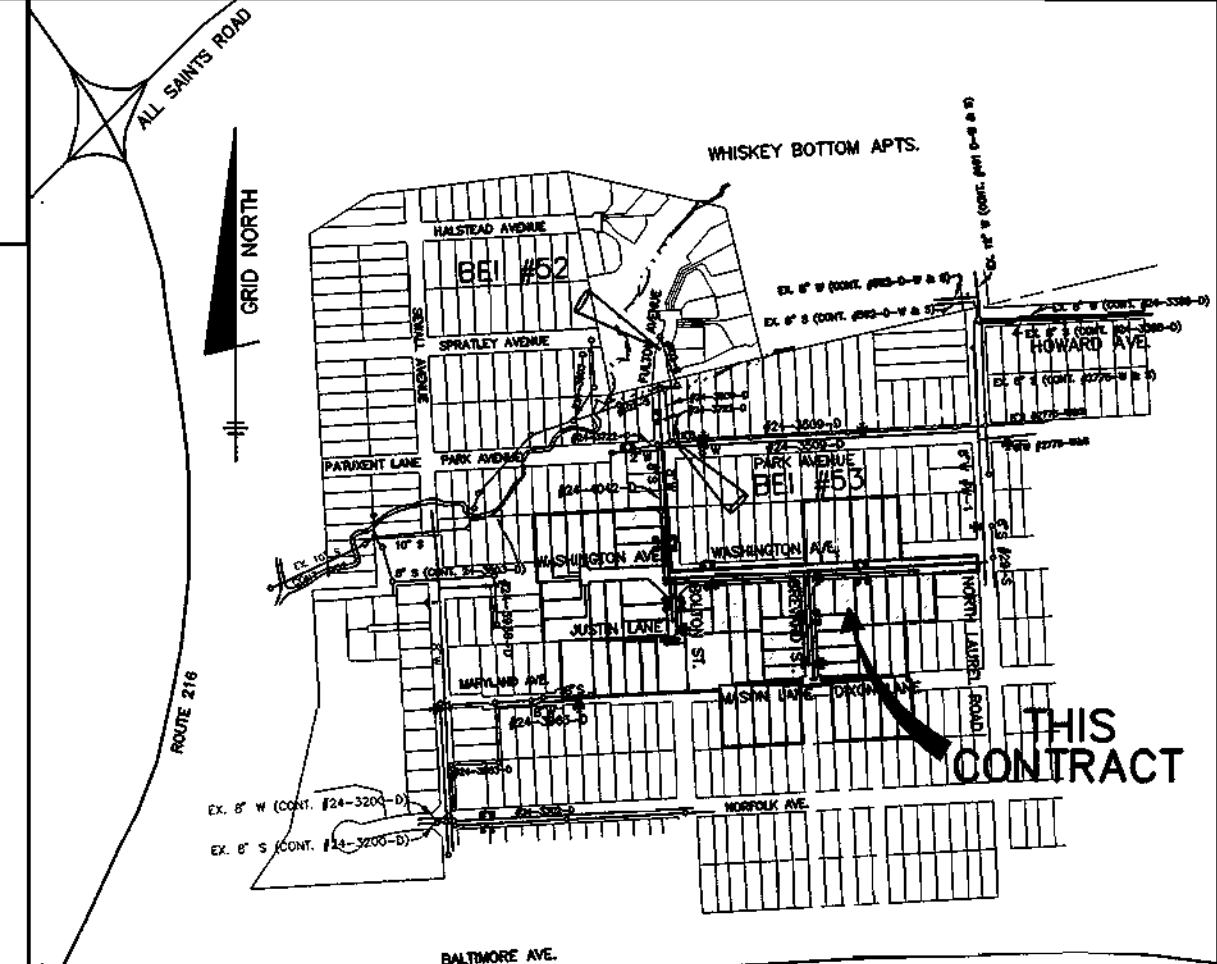


**LEGEND**

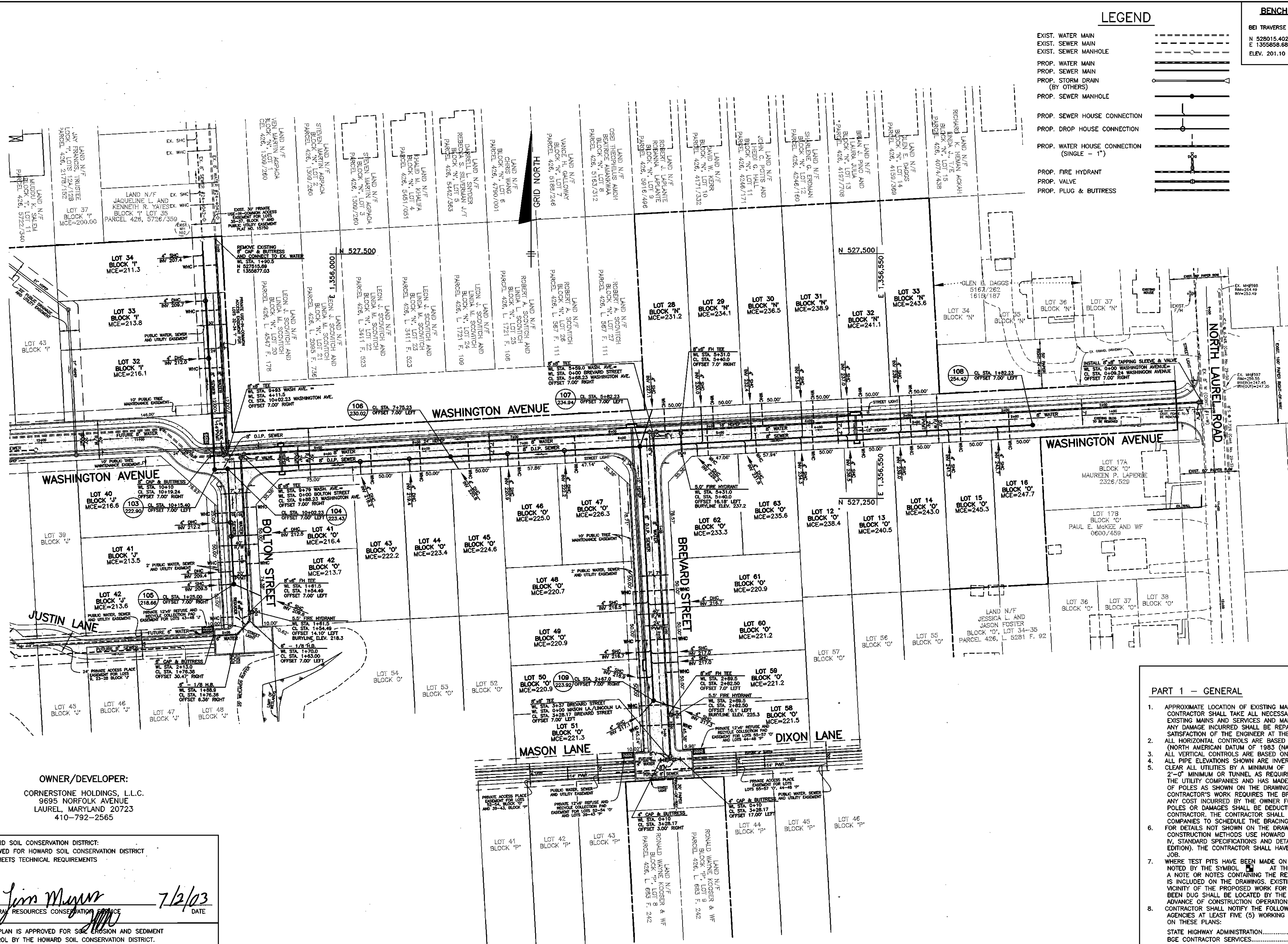
- EXIST. WATER MAIN
- EXIST. SEWER MAIN
- EXIST. SEWER MANHOLE
- PROP. WATER MAIN
- PROP. SEWER MAIN
- PROP. STORM DRAIN (BY OTHERS)
- PROP. SEWER MANHOLE
- PROP. SEWER HOUSE CONNECTION
- PROP. DROP HOUSE CONNECTION
- PROP. WATER HOUSE CONNECTION (SINGLE - 1")
- PROP. FIRE HYDRANT
- PROP. VALVE
- PROP.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

**BENCH MARKS NAD 83**

BEI TRAVERSE #52 N 528015.4024 E 1355658.6879 ELEV. 201.10	BEI TRAVERSE #53 N 527729.0270 E 1355902.8370 ELEV. 203.93
---	---



WATER AND SEWER COUNTY CODE	TYPE OF BUILDING: SINGLE FAMILY DETACHED
WATER CODE: C-05	NUMBER OF BUILDABLE LOTS: 34
SEWER CODE: 7141500	NUMBER OF SHCS: 34
TEST GRADIENT: 550	NUMBER OF WHCS: 34
	DRAINAGE AREA: LITTLE PATUXENT
	TREATMENT PLANT: LITTLE PATUXENT WATER QUALITY MANAGEMENT CENTER



**QUANTITIES**

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
4" WATER	20 L.F.			
6" WATER	51.5 L.F.			
8" WATER	1729.5 L.F.			
6" VALVES	3			
8" VALVES	11			
FIRE HYDRANTS	3			
1" WHC	810 L.F.			
8" PVC SEWER	753 L.F.			
8" D.I.P. SEWER	693 L.F.			
MANHOLES	7 EACH			
VERT. FEET OF MH	97.5 FT.			
4" SHC	678 L.F.			

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

**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 12" CLEAR ALL POLES BY 2'-0" MINIMUM PER 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 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 (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
    - STATE HIGHWAY ADMINISTRATION.....410-531-5533
    - BGE CONTRACTOR SERVICES.....410-850-4620
    - BGE UNDERGROUND DAMAGE CONTROL.....410-291-4607
    - MESS UTILITY.....1-800-257-7777
    - COLONIAL PIPELINE CO.....410-549-4120
    - HOWARD CO. DEPT. OF PUBLIC WORKS.....410-313-4900
    - BELL ATLANTIC.....1-800-446-5286
  - 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.
- PART 2 - SEWER**
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
  - ALL MANHOLES SHALL BE 4' - 0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
  - FORCE MAINS SHALL BE 4" ONLY.
  - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
  - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL C5.52. 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 SERVED.

**PLAN VIEW**  
SCALE: 1" = 50'

**NOTES:**

- ALL PROPOSED WATER AND SEWER MAINS ARE TO BE "PUBLIC".
- ALL DROP SEWER HOUSE CONNECTIONS ARE TO BE TYPE 'A' HO. CO. STD. S-2-12.

**OWNER/DEVELOPER:**  
CORNERSTONE HOLDINGS, L.L.C.  
9695 NORFOLK AVENUE  
LAUREL, MARYLAND 20723  
410-792-2565

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

*Jim Meyer* 7/2/03 DATE  
NATURAL RESOURCES CONSERVATION OFFICE

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

*John R. Roberts* 7/2/03 DATE  
HOWARD SOIL CONSERVATION DISTRICT

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-03-095

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Ruth Berman* 6-26-03 DATE  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

*John D. ...* 7/6/03 DATE  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

**BENCHMARK ENGINEERING, INC.**  
ENGINEERS & LAND SURVEYORS & PLANNERS  
8480 BALTIMORE NATIONAL PIKE A SUITE 418  
ELLCOTT CITY, MARYLAND 21043  
PHONE: 410-465-6105 FAX: 410-465-6644

*Donall Mann*  
d/2/03

DESIGN: DBT	
DRAFT: DBT	
CHK: DAM	
DATE: 6/03	
BY NO.	
REVISIONS	
DATE	

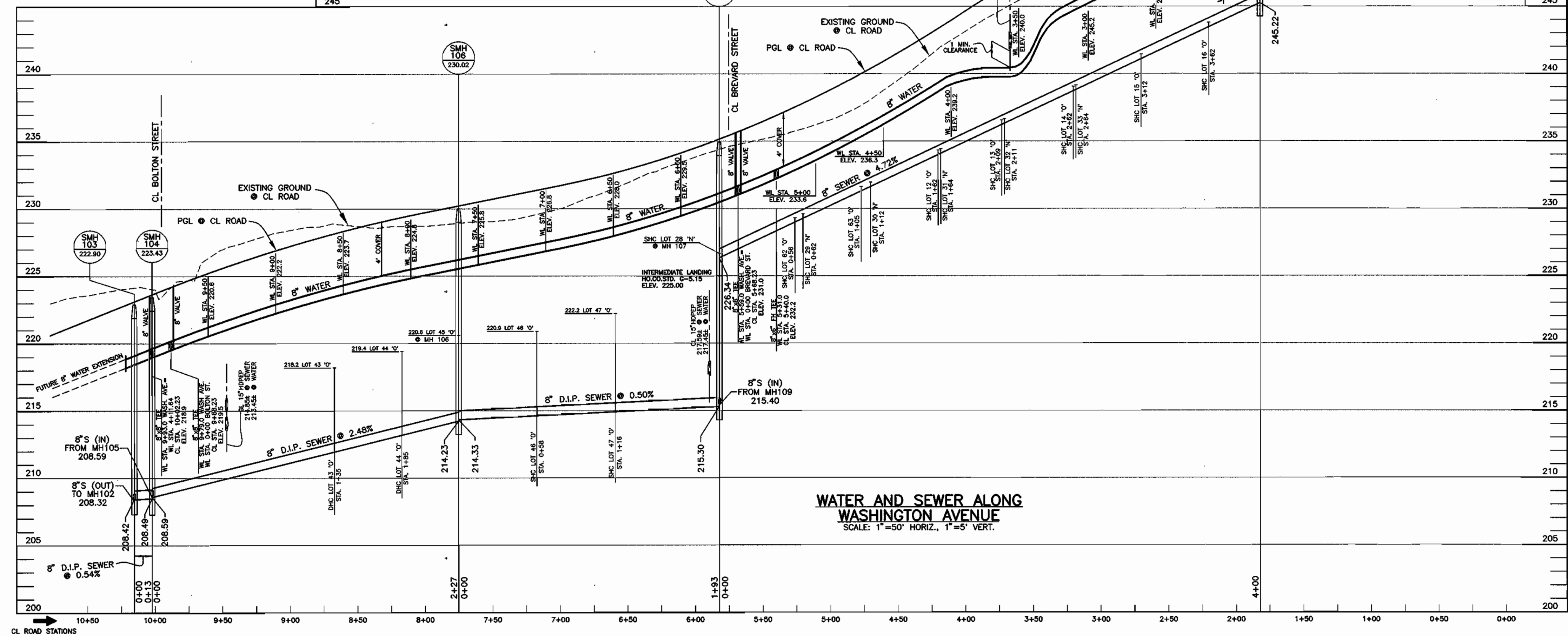
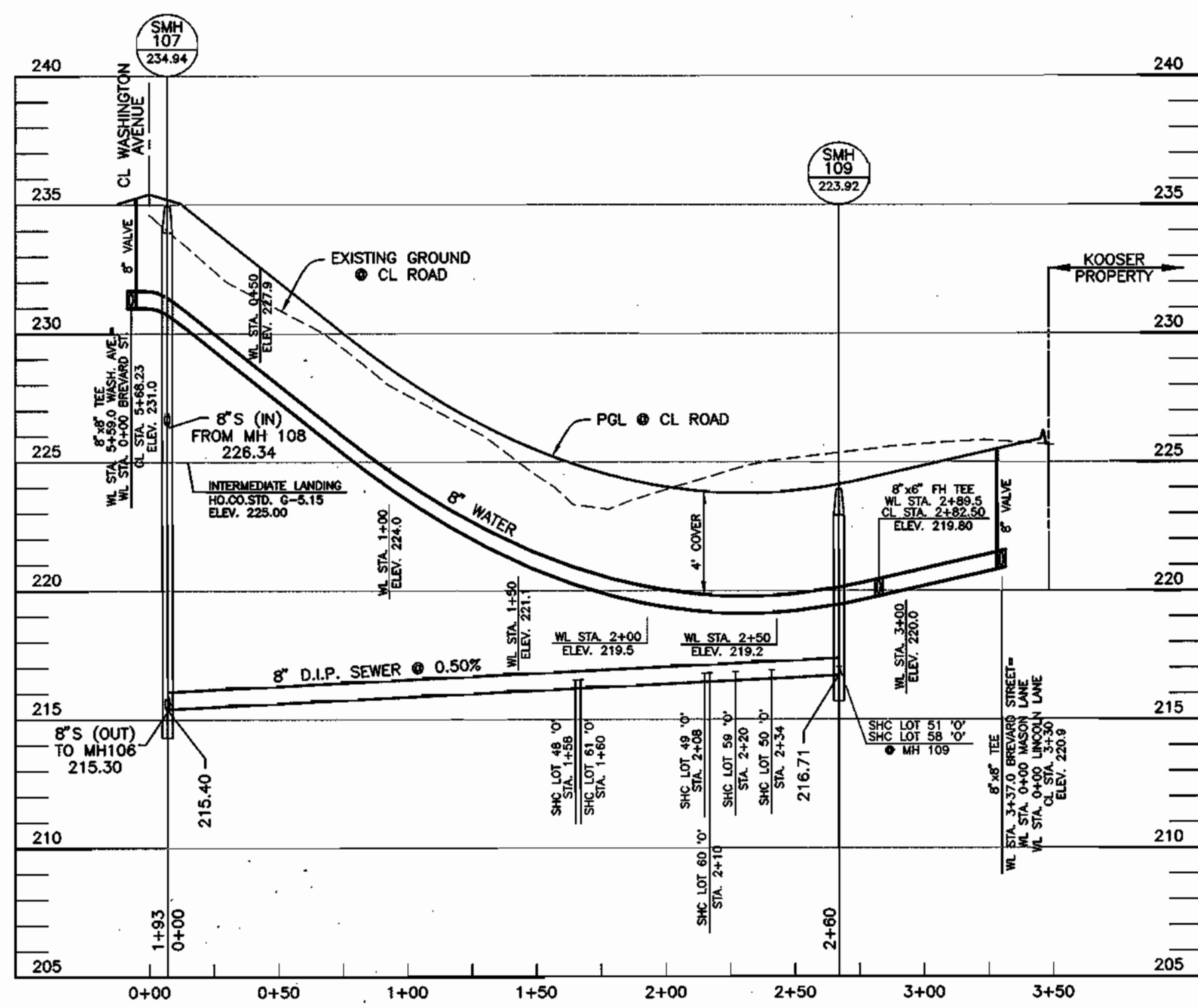
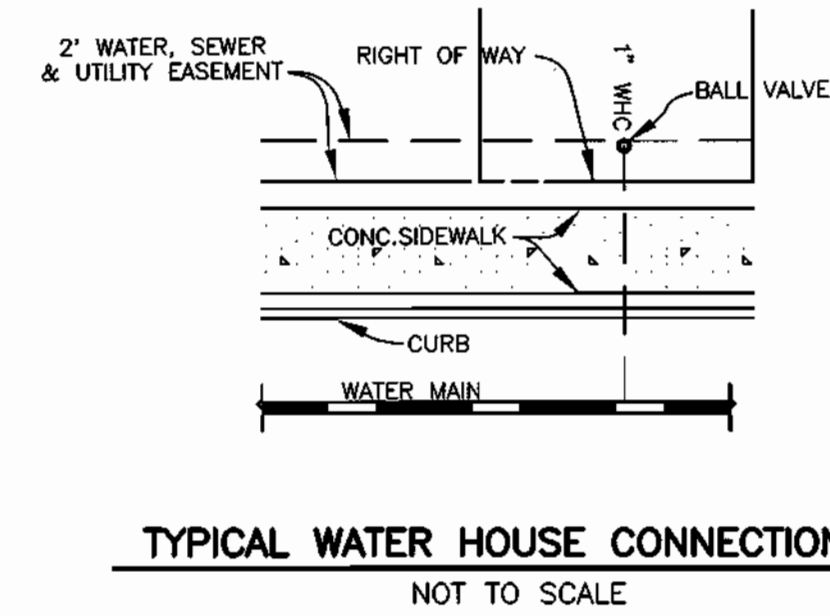
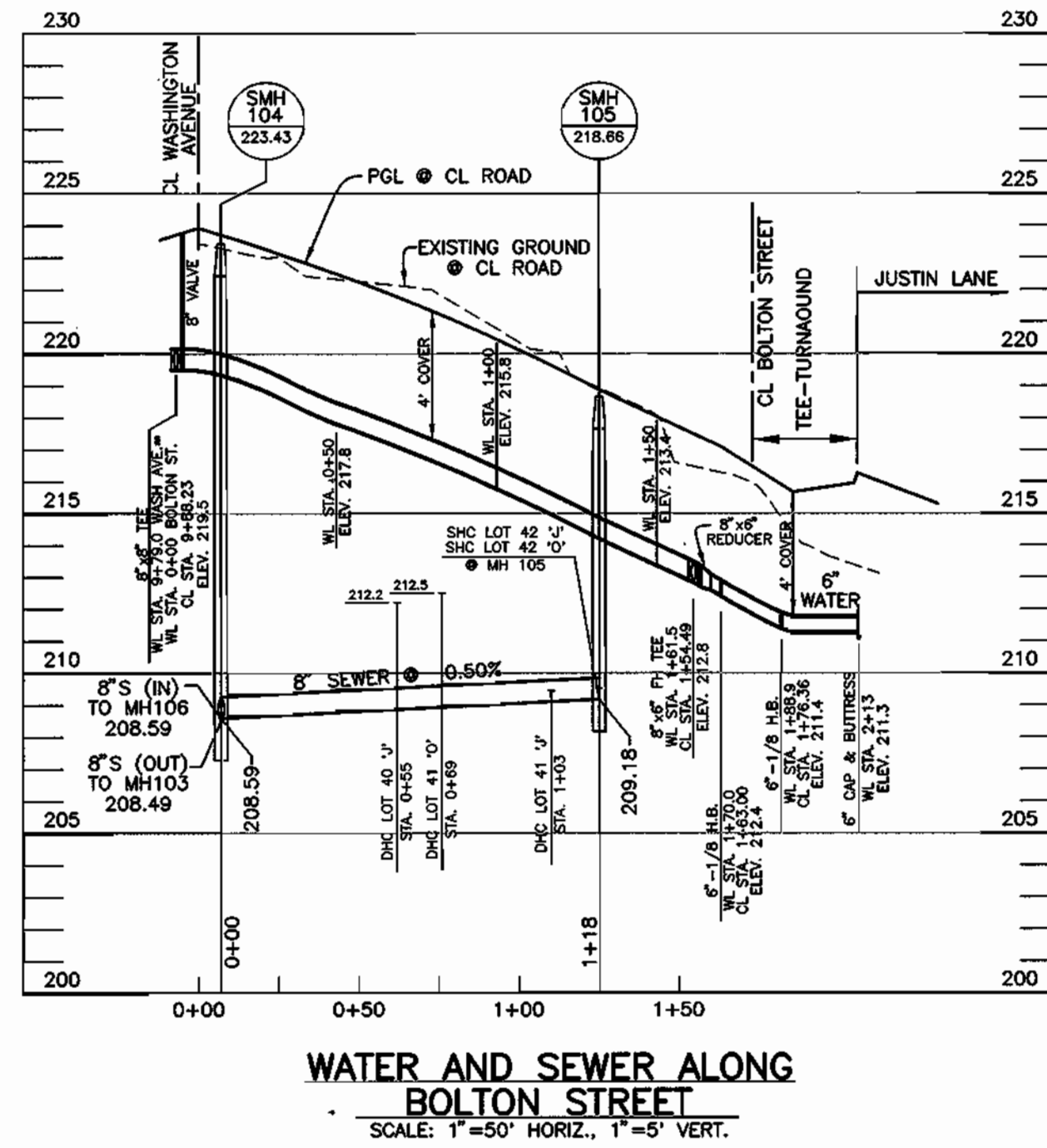
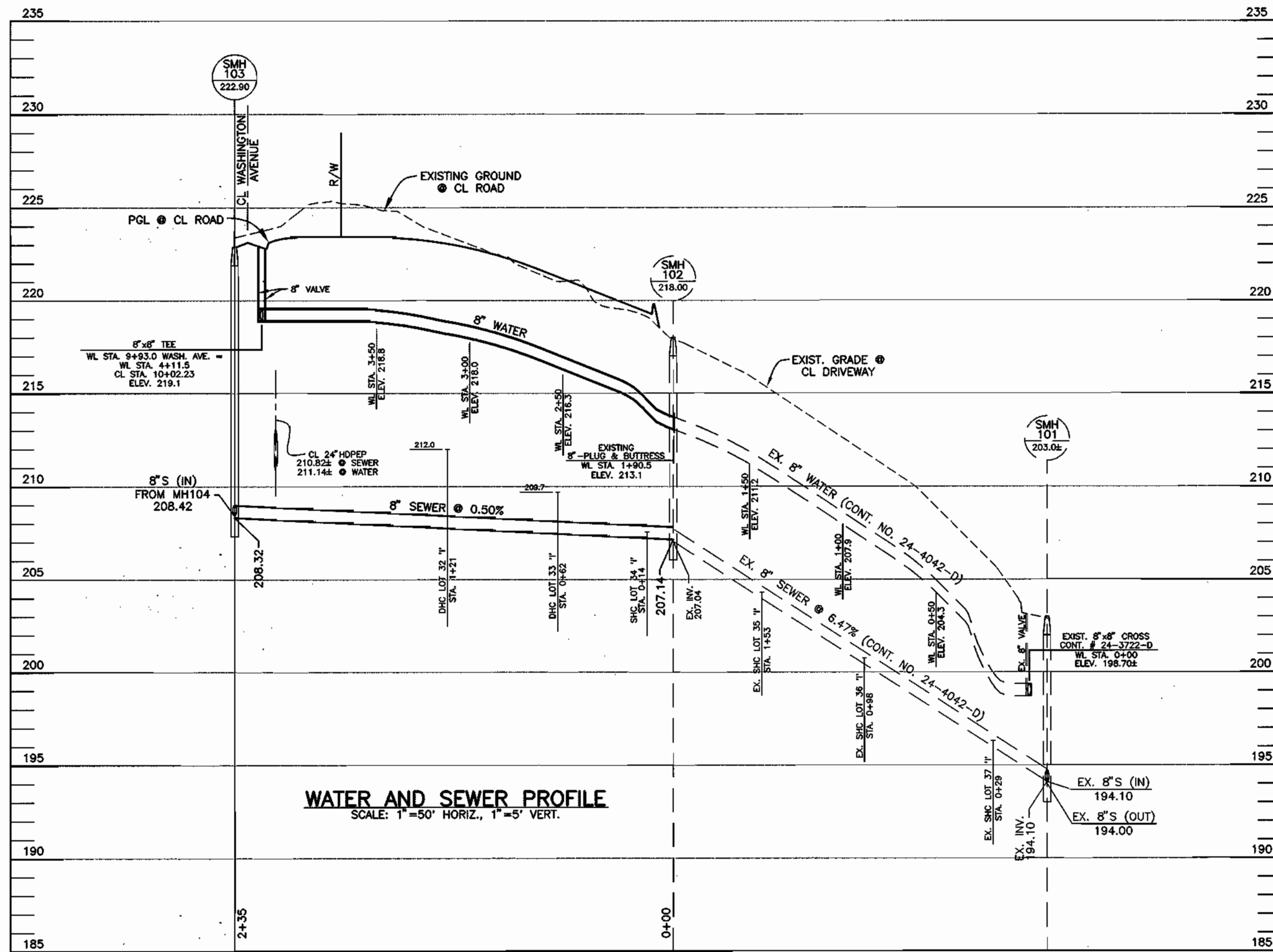
**PLAN VIEW OF WATER AND SEWER MAINS**

**NORTH LAUREL PARK**  
WASHINGTON AVENUE, BREVARD STREET, BOLTON STREET  
LOTS 32-34 BLOCK 'N'; LOTS 40-42 BLOCK 'J'; LOTS 28-33 BLOCK 'N';  
AND LOTS 12-16, 41-51, 58-63 BLOCK 'N'

ELECTION DISTRICT NO. 6  
**CONTRACT NO. 24-4041-D**

SCALE: AS SHOWN  
SHEET NO. 1 OF 2

600 SCALE MAP NO. 50 BLOCK 3



OWNER/DEVELOPER:  
CORNERSTONE HOLDINGS, L.L.C.  
9695 NORFOLK AVENUE  
LAUREL, MARYLAND 20723  
410-792-2565

**WATER AND SEWER ALONG BREVARD STREET**  
SCALE: 1"=50' HORIZ., 1"=5' VERT.

**WATER AND SEWER ALONG WASHINGTON AVENUE**  
SCALE: 1"=50' HORIZ., 1"=5' VERT.

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  
ELLCOTT CITY, MARYLAND 21043  
PHONE: 410-465-6105 FAX: 410-465-6644

DESIGN: DBT  
DRAFT: DBT  
CHK: DAM  
DATE: 6/03

BY	NO.	REVISIONS	DATE

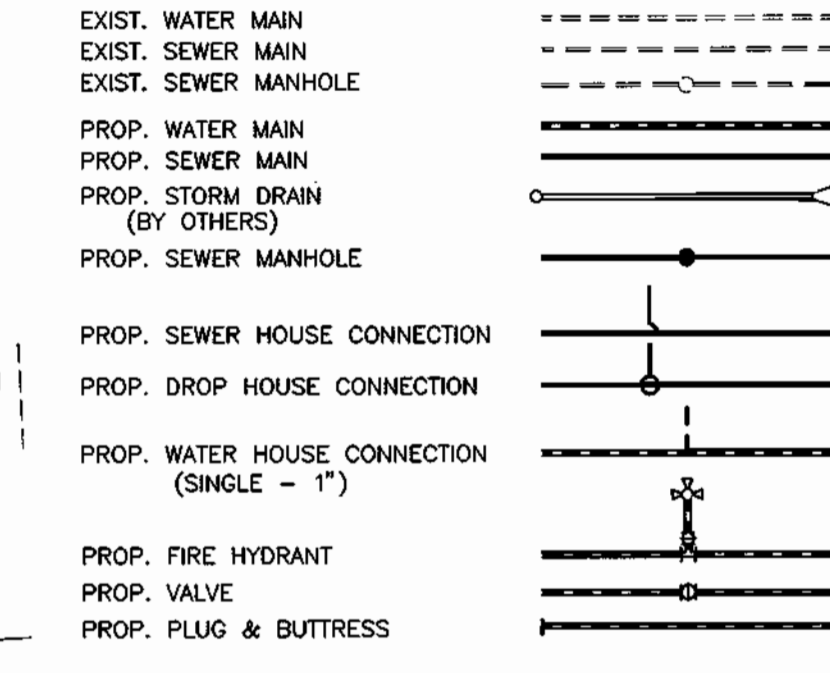
PROFILES AND DETAILS

600 SCALE MAP NO. 50 BLOCK 3

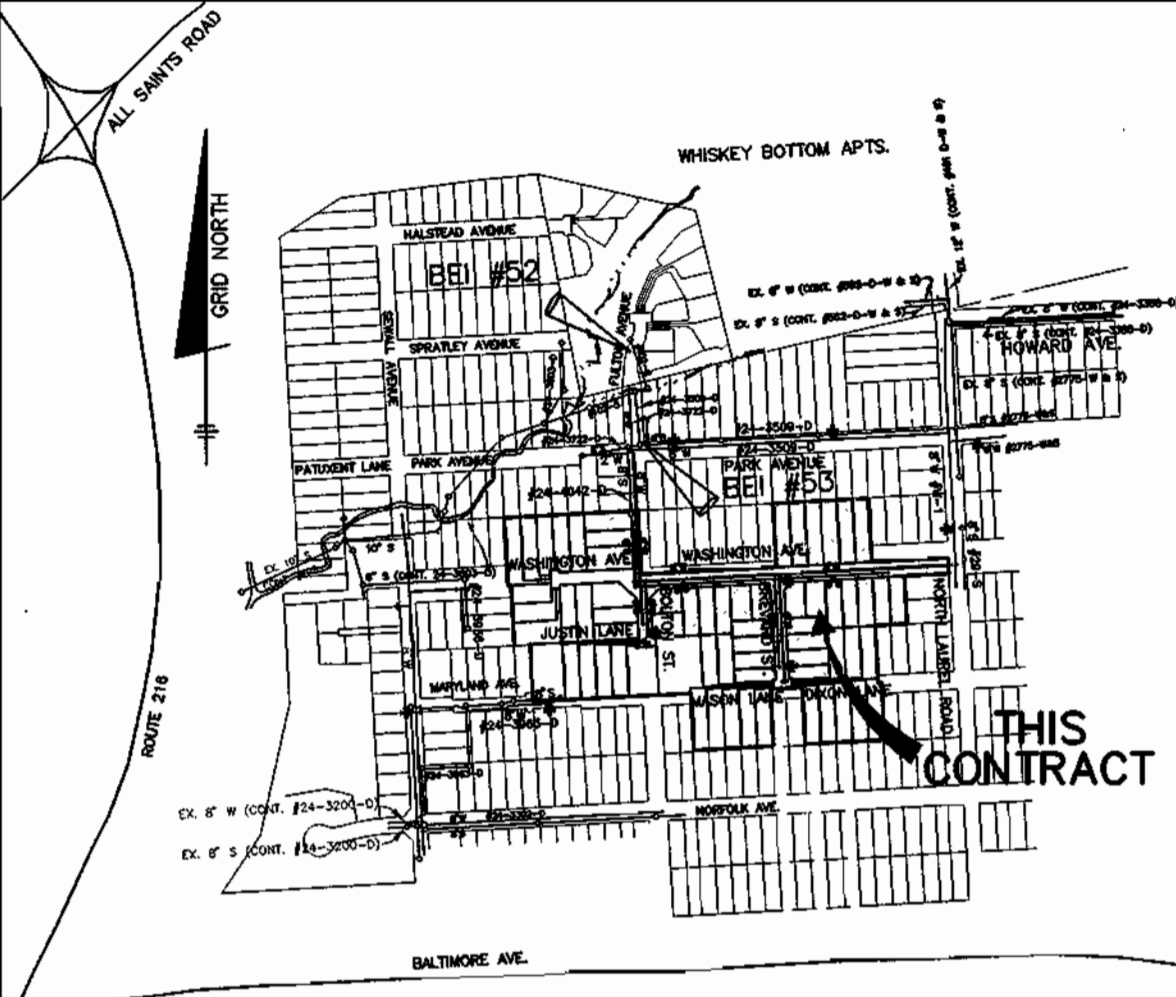
**NORTH LAUREL PARK**  
WASHINGTON AVENUE, BREVARD STREET, BOLTON STREET  
LOTS 32-34 BLOCK 'F'; LOTS 40-42 BLOCK 'J'; LOTS 28-33 BLOCK 'N';  
AND LOTS 12-16, 41-51, 56-63 BLOCK 'O'  
ELECTION DISTRICT NO. 6  
**CONTRACT NO. 24-4041-D**

SCALE:  
AS SHOWN  
SHEET NO.  
2 OF 2

LEGEND

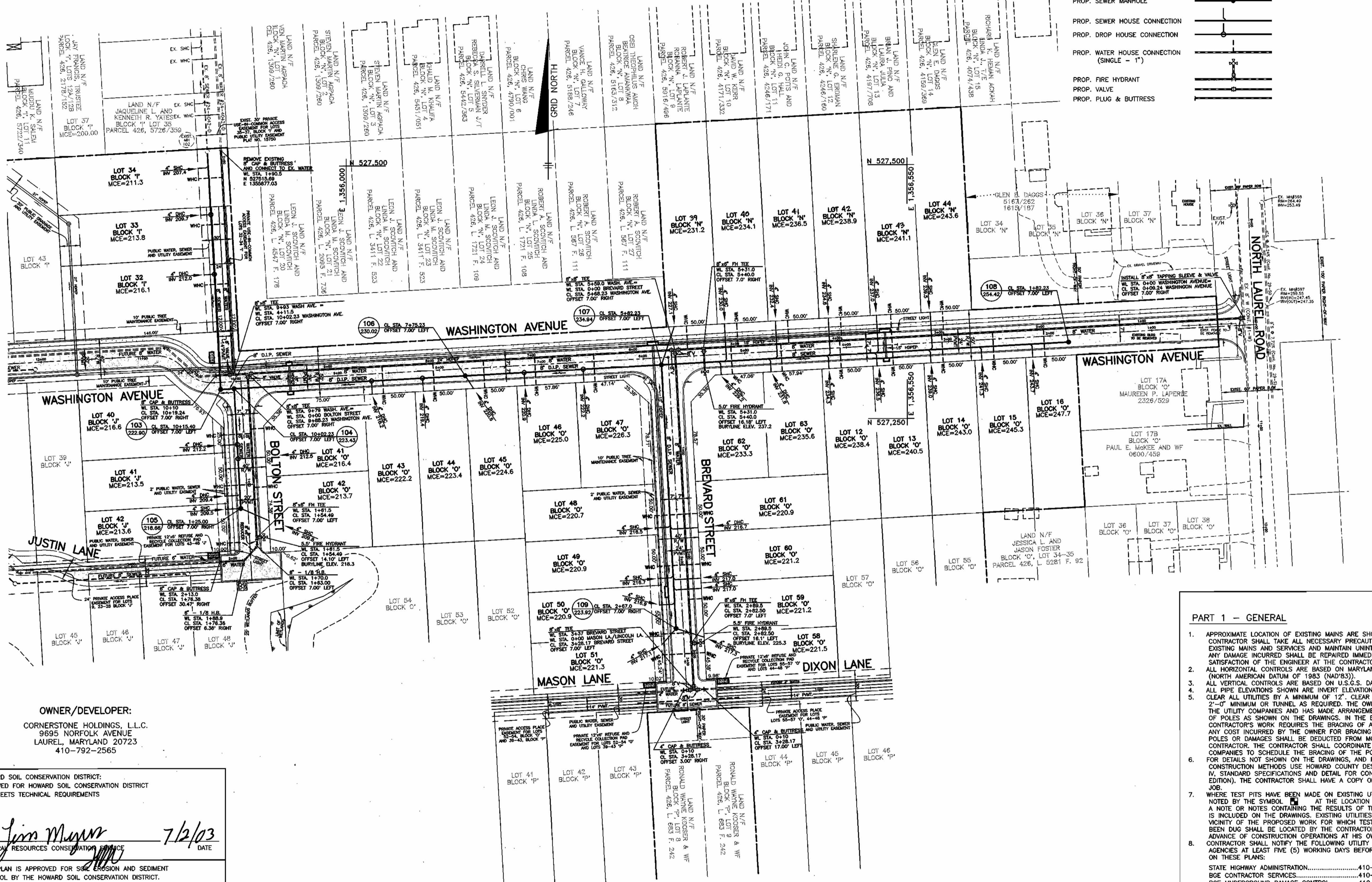


BENCH MARKS NAD 83 table with coordinates for BEI TRAVERSE #52 and #53.



WATER AND SEWER COUNTY CODE table with codes for water, sewer, and test gradient.

VICINITY MAP SCALE: 1" = 600'



QUANTITIES

Table with columns: ITEMS, QUANTITIES ESTIMATED, AS-BUILT QUANTITIES, TYPE, MANUF./SUPPLIER. Lists items like 4" water, 6" water, valves, fire hydrants, etc.

GENERAL NOTES

PART 1 - GENERAL

- 1. APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN... 2. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY... 3. ALL VERTICAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES... 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS... 5. CLEAR ALL UTILITIES BY A MINIMUM OF 12"...

PART 2 - WATER

- 1. ALL WATER MAINS TO BE D.I.P. CLASS S2 UNLESS OTHERWISE NOTED... 2. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3.5' COVER UNLESS OTHERWISE NOTED... 3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES... 4. ALL FITTINGS SHALL BE BUTTERFUSED OR ANCHORED WITH CONCRETE...

PART 3 - SEWER

- 1. ALL SEWER MAINS SHALL BE D.I.P. 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...

NOTES:

- 1. ALL PROPOSED WATER AND SEWER MAINS ARE TO BE "PUBLIC". 2. ALL DROP SEWER HOUSE CONNECTIONS ARE TO BE TYPE 'A' HO. CO. STD. S-2.12.

PLAN VIEW SCALE: 1" = 50'

OWNER/DEVELOPER: CORNERSTONE HOLDINGS, L.L.C. 9695 NORFOLK AVENUE LAUREL, MARYLAND 20723 410-792-2565

HOWARD SOIL CONSERVATION DISTRICT REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS. Signatures and dates for Jim Meyer (7/2/03) and John R. Roberts (7/2/03).

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-03-095

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND. Signature: R. J. ... 6-26-03

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND. Signature: ... 7/6/03

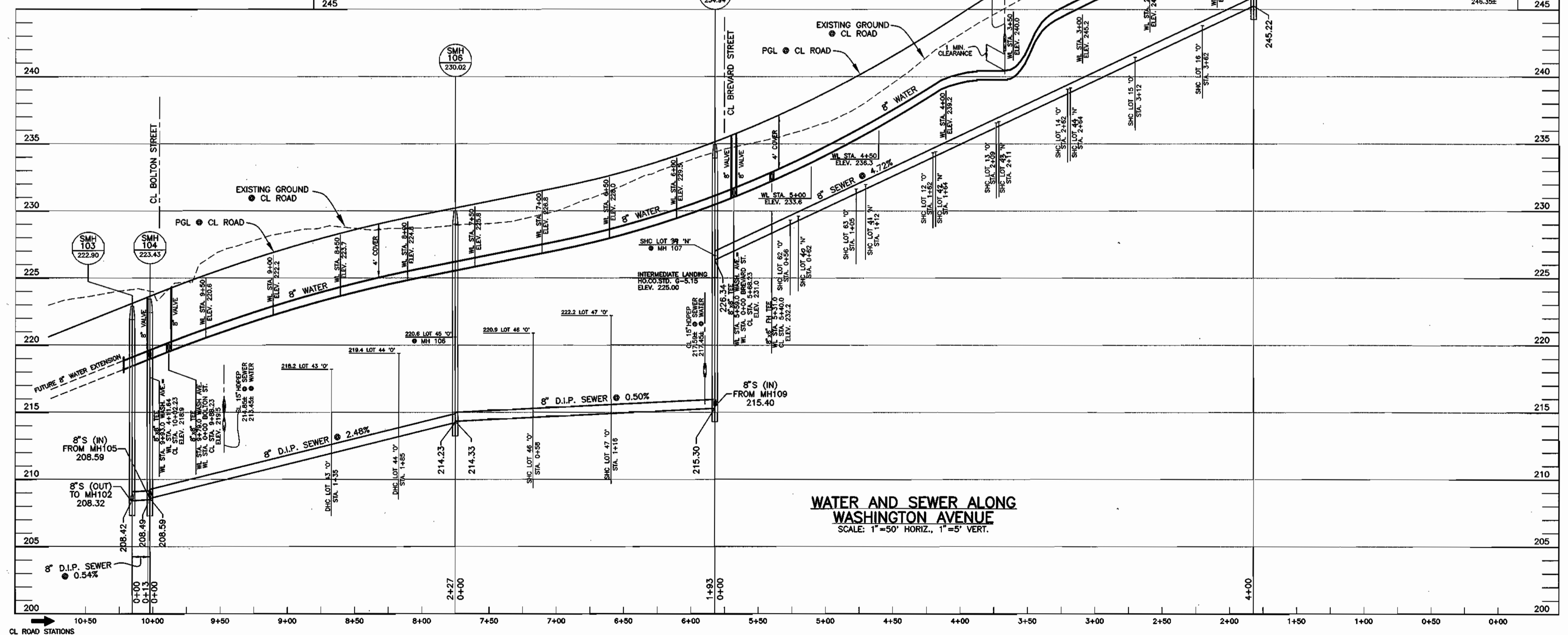
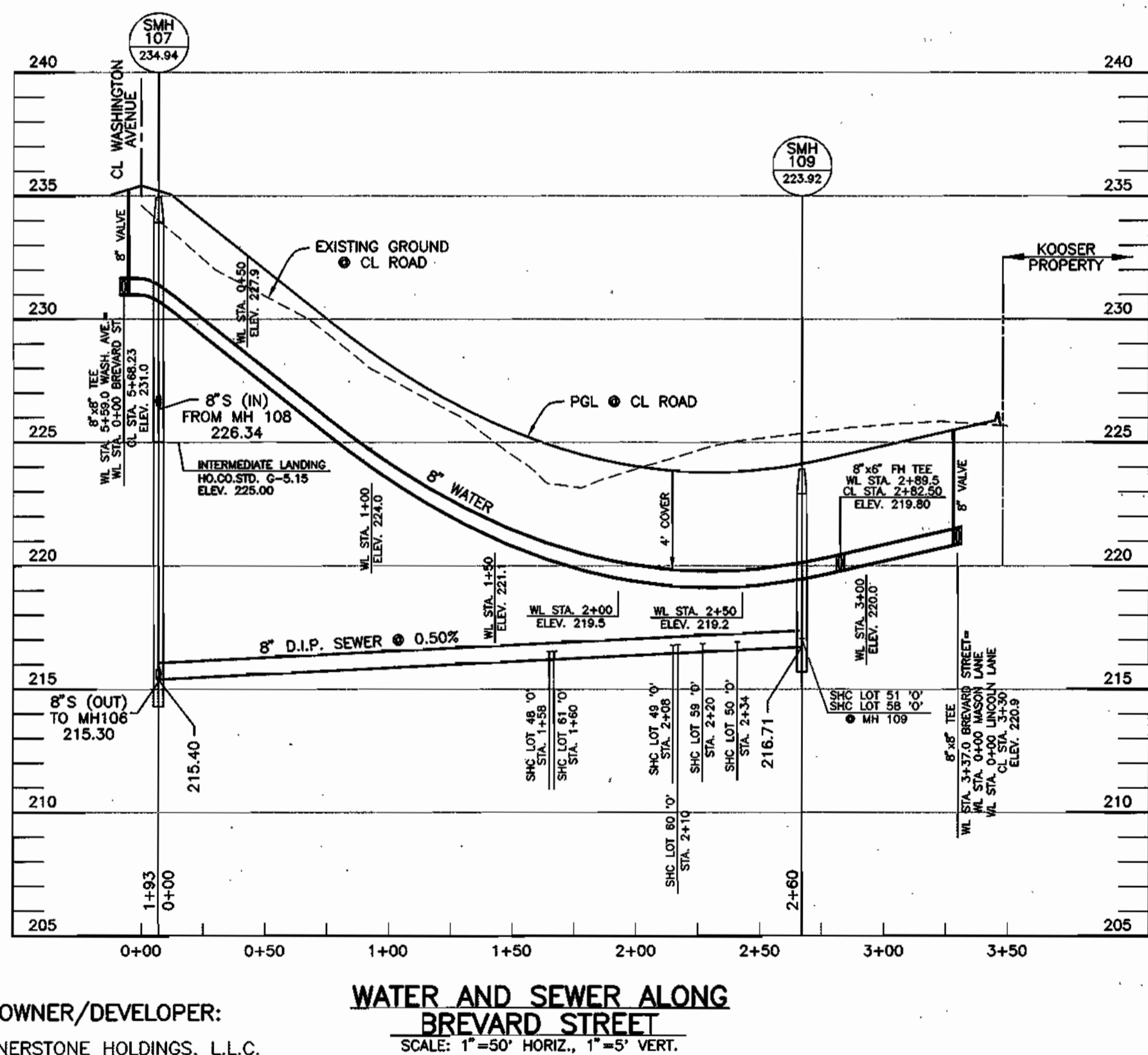
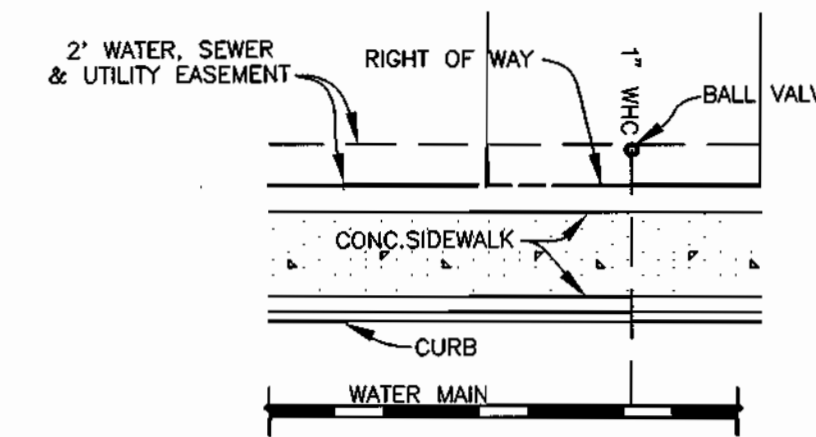
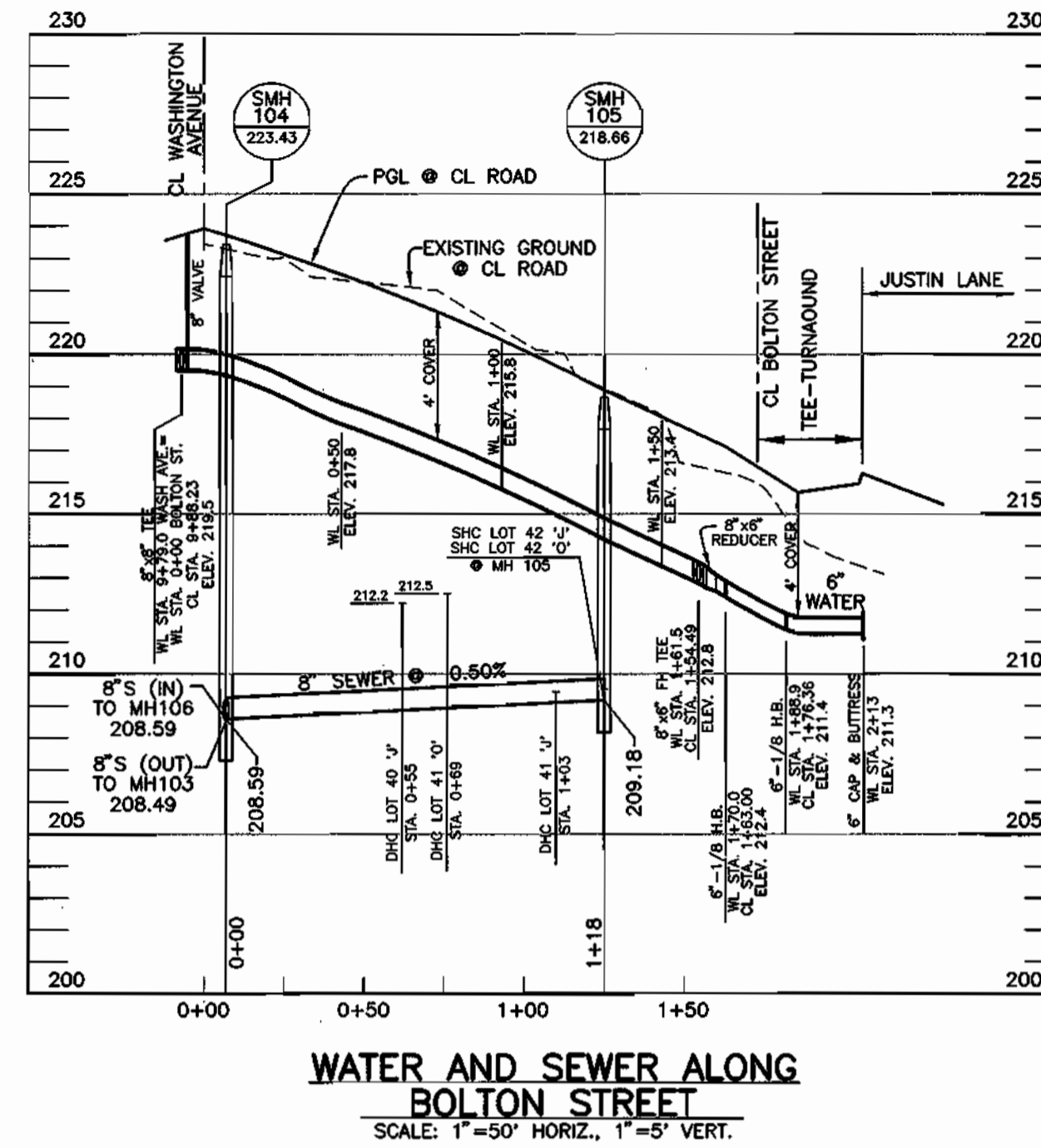
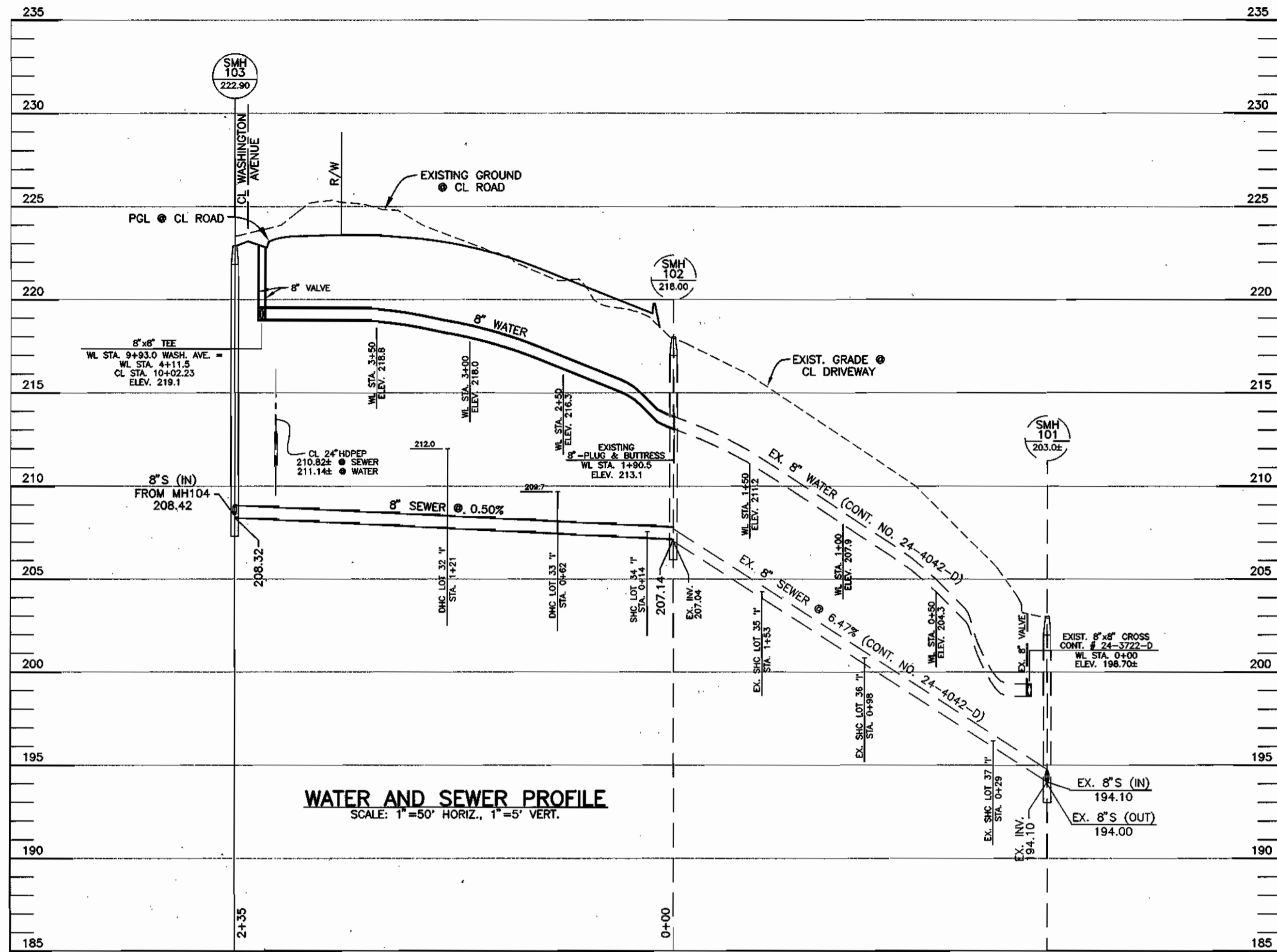
BENCHMARK ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE, SUITE 418 ELLICOTT CITY, MARYLAND 21043 PHONE: 410-465-6105 FAX: 410-465-6644

Design and revision table with columns: DESIGN, DRAFT, CHK, DATE, BY, NO., REVISIONS.

PLAN VIEW OF WATER AND SEWER MAINS

NORTH LAUREL PARK WASHINGTON AVENUE, BREVARD STREET, BOLTON STREET CONTRACT NO. 24-4041-D

SCALE: AS SHOWN SHEET NO. 1 OF 2



OWNER/DEVELOPER:  
CORNERSTONE HOLDINGS, L.L.C.  
9695 NORFOLK AVENUE  
LAUREL, MARYLAND 20723  
410-792-2565

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  
ELLCOTT CITY, MARYLAND 21043  
PHONE: 410-465-8105 FAX: 410-465-8644

DESIGN: DBT	
DRAFT: DBT	
CHK: DAM	
DATE: 6/03	7/31/03
BY: NO.	REVISIONS
	DATE

PROFILES AND DETAILS

600 SCALE MAP NO. 50 BLOCK 3

**NORTH LAUREL PARK**  
WASHINGTON AVENUE, BREVARD STREET, BOLTON STREET  
LOTS 32-34 BLOCK '1'; LOTS 40-42 BLOCK '2'; LOTS 39-44 BLOCK 'N';  
AND LOTS 12-16, 41-51, 58-63 BLOCK 'O'  
ELECTION DISTRICT NO. 8  
**CONTRACT NO. 24-4041-D**

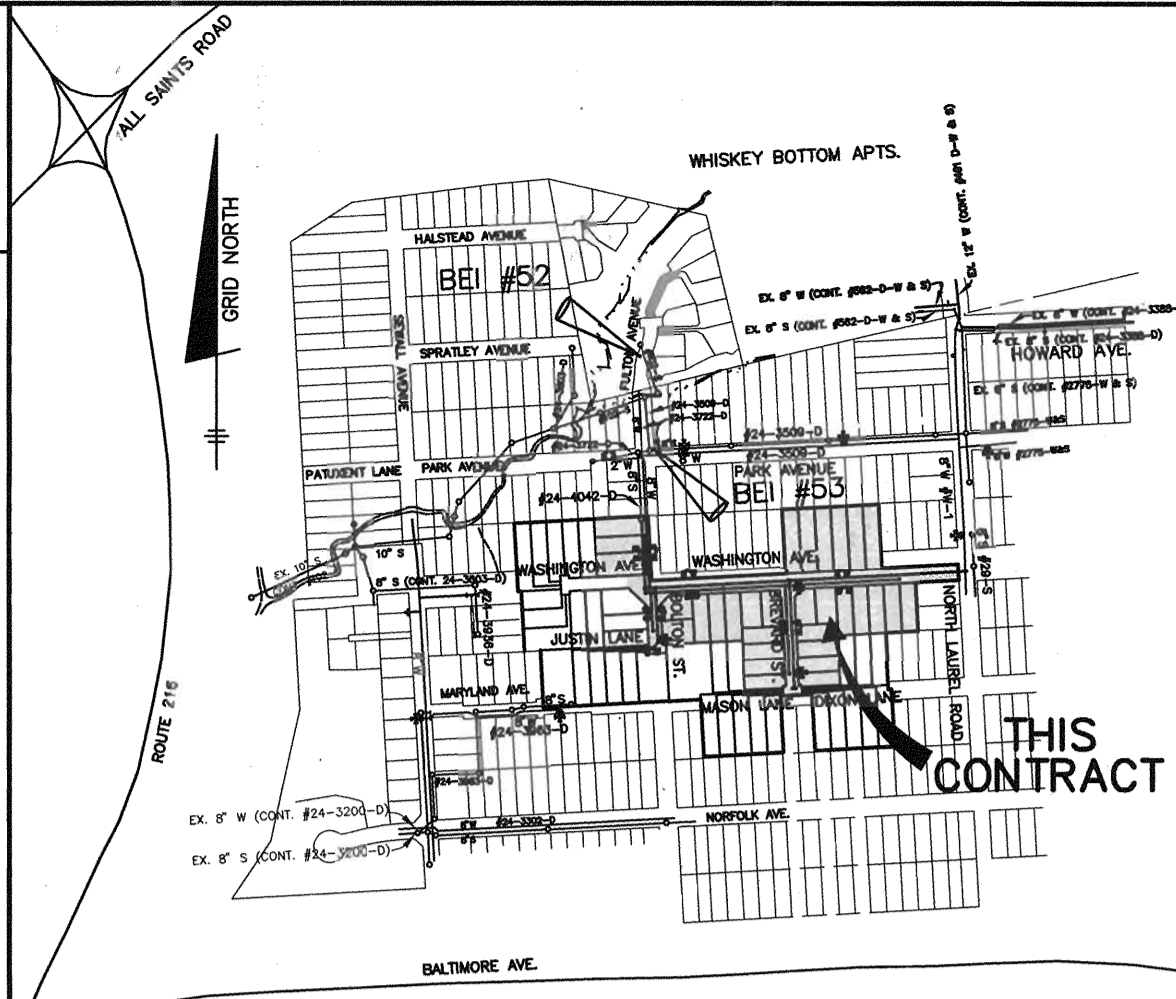
SCALE:  
AS SHOWN  
SHEET NO.  
2 OF 2

**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
- PROP. DROP HOUSE CONNECTION
- PROP. WATER HOUSE CONNECTION (SINGLE - 1")
- PROP. FIRE HYDRANT
- PROP. VALVE
- PROP. PLUG & BUTTRISS

**BENCH MARKS NAD 83**

BEI TRAVERSE #52 N 528015.4024 E 1355858.6879 ELEV. 201.10	BEI TRAVERSE #53 N 527728.0270 E 1355902.8370 ELEV. 203.93
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**WATER AND SEWER COUNTY CODE**

WATER CODE: C-05	TYPE OF BUILDING: SINGLE FAMILY DETACHED
SEWER CODE: 7141500	NUMBER OF BUILDABLE LOTS: 34
TEST GRADIENT: 550	NUMBER OF SHCS: 34
	NUMBER OF WHCS: 34
	DRAINAGE AREA: LITTLE PATUKENT
	TREATMENT PLANT: WATER QUALITY MANAGEMENT CENTER

**VICINITY MAP**  
SCALE: 1" = 600'

**QUANTITIES**

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
4" WATER	20 L.F.	20	D.I.P. 52	GRIFFIN PIPE CO.
6" WATER	51.5 L.F.	51.5	"	"
8" WATER	1729.5 L.F.	1729.5	"	"
6" VALVES	3	3	MUELLER	BEAVER RD SUPPLY
8" VALVES	11	11	MUELLER	"
FIRE HYDRANTS	3	3	MUELLER	"
1" WHC	810 L.F.	810	1" K-COPPER	CAMBRIDGE LEE/BRO.
8" PVC SEWER	753 L.F.	SDR 35	T.M. HFC/BROS.	
8" D.I.P. SEWER	693 L.F.	693 L.F.	GRIFFIN/GRIFFIN	
MANHOLES	7 EACH	7EA	ATLANTIC/ATLANTIC	
VERT. FEET OF MH	97.5 FT.	08		
4" SHC	678 L.F.	678	SDR 35	T.M. HFC/BROS.

NAME OF UTILITY CONTRACTOR: GAINES  
SURVEY AND DRAFTING DIVISION AS-BUILT DATE: 2-20-04



**PLAN VIEW**  
SCALE: 1" = 50'

**NOTES:**

- ALL PROPOSED WATER AND SEWER MAINS ARE TO BE "PUBLIC".
- ALL DROP SEWER HOUSE CONNECTIONS ARE TO BE TYPE 'A' HO. CO. STD. S-2.12.

**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 12". CLEAR ALL POLES BY 2'-0" MINIMUM PER 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 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 (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
  - STATE HIGHWAY ADMINISTRATION.....410-531-5533
  - BGE CONTRACTOR SERVICES.....410-850-4620
  - BGE UNDERGROUND DAMAGE CONTROL.....410-291-4607
  - MESS UTILITY.....1-800-257-7777
  - COLONIAL PIPELINE CO.....410-549-4120
  - HOWARD CO. DEPT. OF PUBLIC WORKS.....410-313-4900
  - BELL ATLANTIC.....1-800-446-5266
- 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.

**GENERAL NOTES**

- 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(c) 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 OTHERWISE NOTED.
  - VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
  - ALL FITTINGS SHALL BE BUTTRISSED 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 BUTTRISSED 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.
  - FOR SPRINKLER 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 D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
  - ALL MANHOLES SHALL BE 4' - 0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
  - FORCE MAINS SHALL BE D.I.P. ONLY.
  - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
  - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL C5.52. 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 SERVED.

**OWNER/DEVELOPER:**  
CORNERSTONE HOLDINGS, L.L.C.  
9695 NORFOLK AVENUE  
LAUREL, MARYLAND 20723  
410-792-2565

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

*Jim Meyer* 7/2/03 DATE  
NATURAL RESOURCES CONSERVATION SERVICE

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

*John R. Roberts* 7/2/03 DATE  
HOWARD SOIL CONSERVATION DISTRICT

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-03-095

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Ruth Berman* 6-26-03 DATE  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

*John Danner* 7/6/03 DATE  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

**BENCHMARK**  
ENGINEERS & LAND SURVEYORS & PLANNERS

*Dorrell Mann*

8480 BALTIMORE NATIONAL PIKE & SUITE 418  
ELLCOTT CITY, MARYLAND 21043  
PHONE: 410-465-8105 FAX: 410-465-8644

DESIGN: DBT  
DRAFT: DBT  
CHK: DAM  
DATE: 6/03

REVISIONS

NO.	DESCRIPTION	DATE
1	AS-BUILT DATA ADDED TO PLAN	08/20/04
2	REVISE LOT NUMBERS ON BLOCK 'N'	7/3/03

**PLAN VIEW OF WATER AND SEWER MAINS**

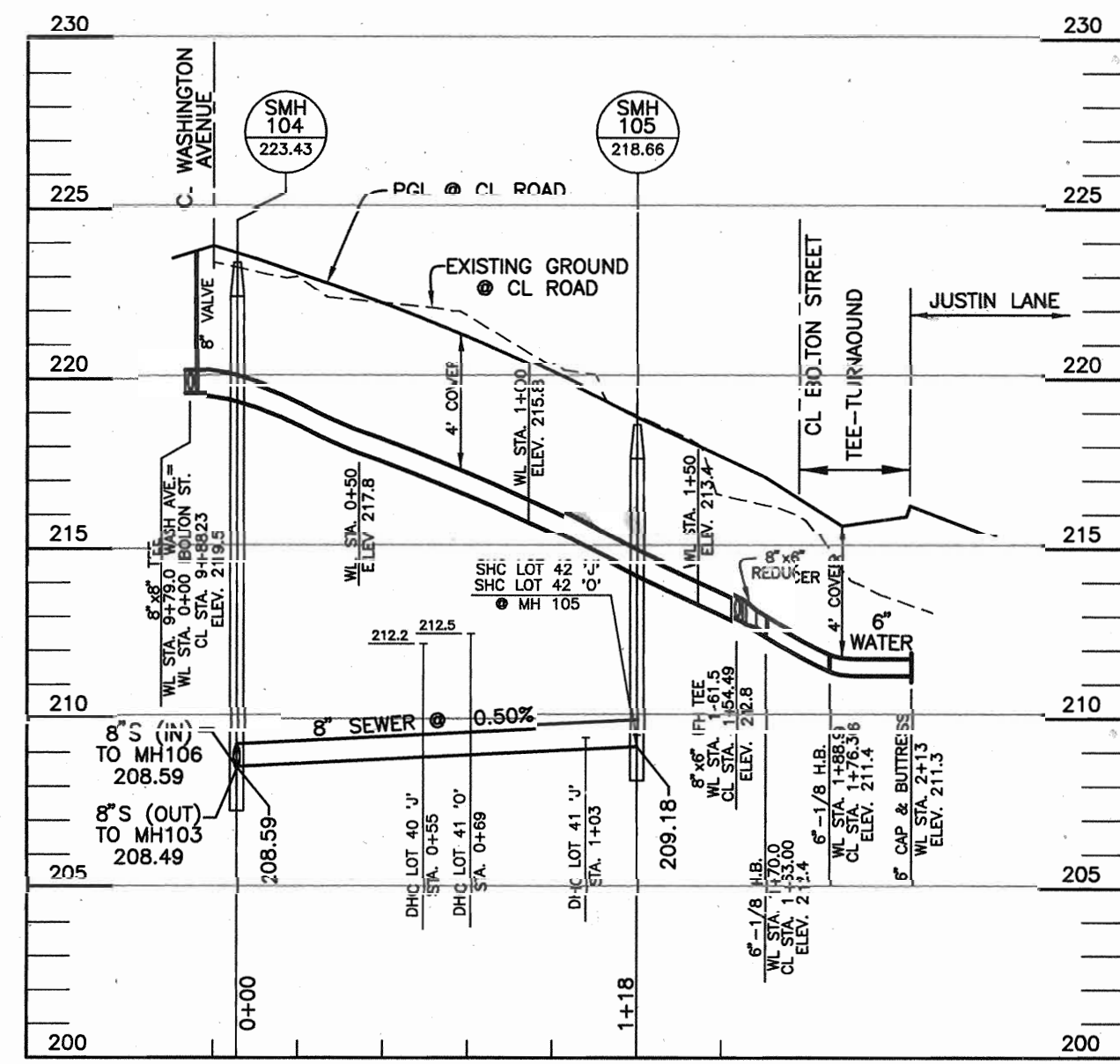
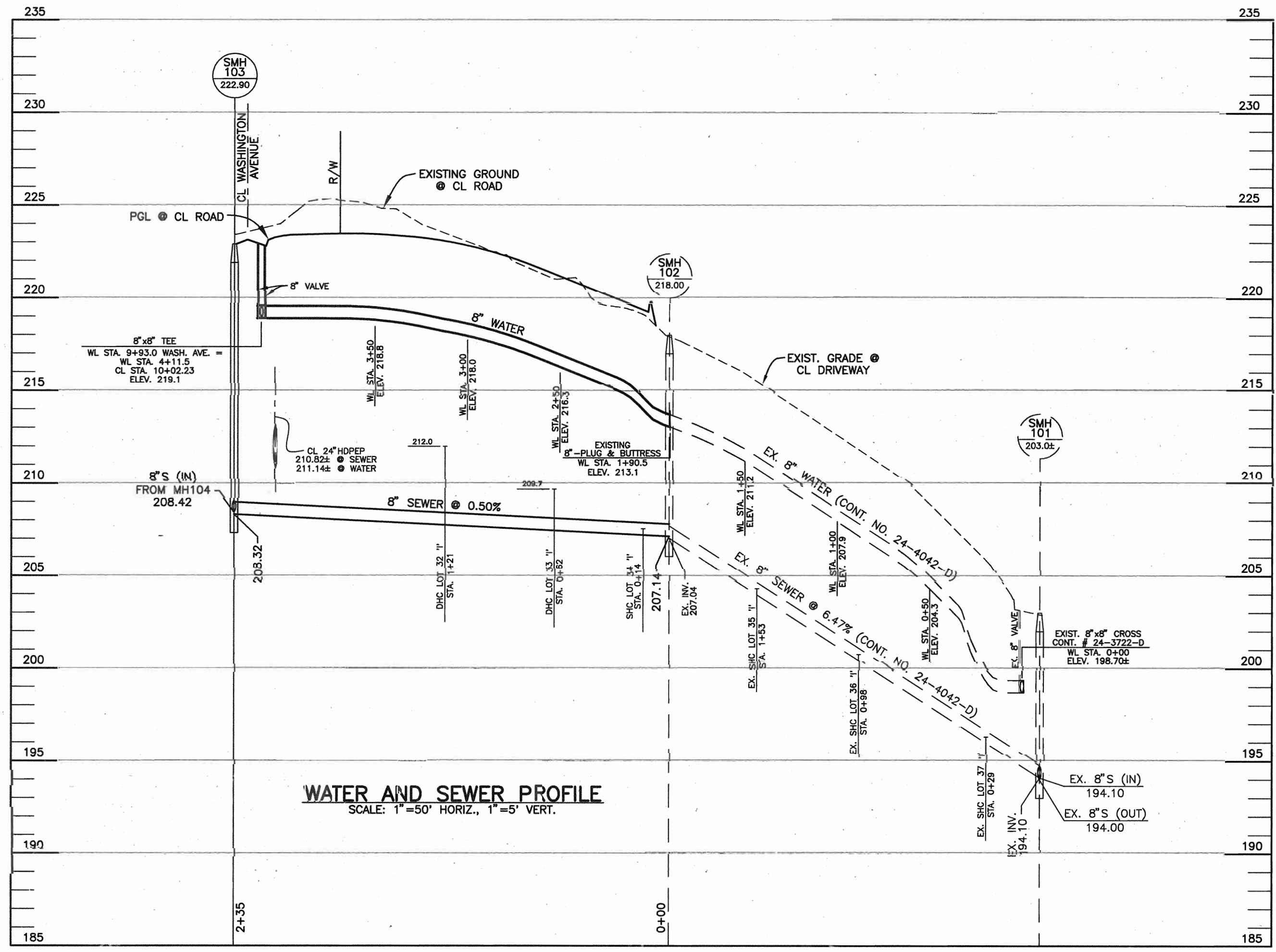
600 SCALE MAP NO. 50

**NORTH LAUREL PARK**  
WASHINGTON AVENUE, BREVARD STREET, BOLTON STREET  
LOTS 32-34 BLOCK 'U'; LOTS 40-42 BLOCK 'J'; LOTS 39-44 BLOCK 'N';  
AND LOTS 12-16, 41-51, 58-63 BLOCK 'N'

ELECTION DISTRICT NO. 6

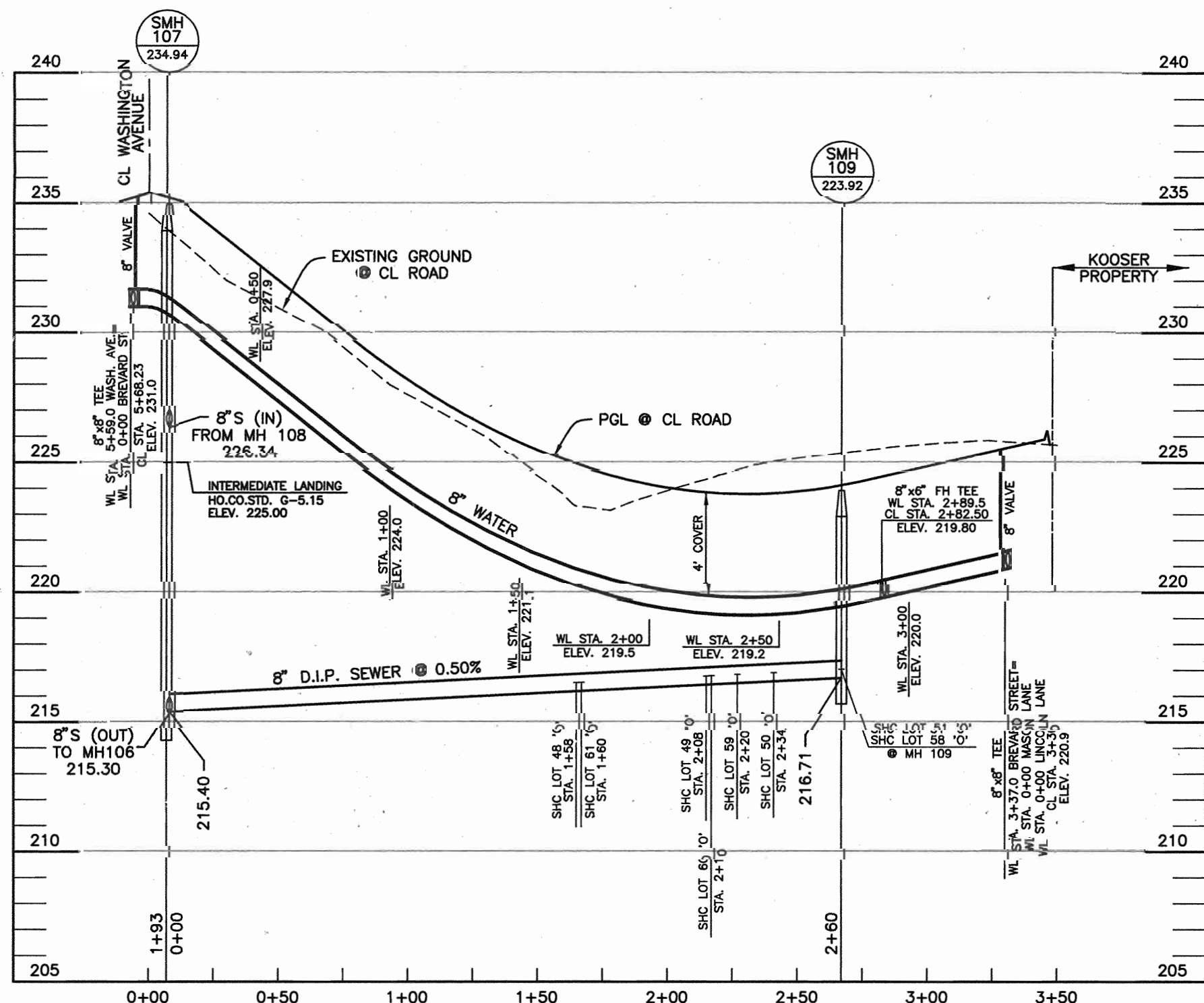
**CONTRACT NO. 24-4041-D**

SCALE: AS SHOWN  
SHEET NO. 1 OF 2

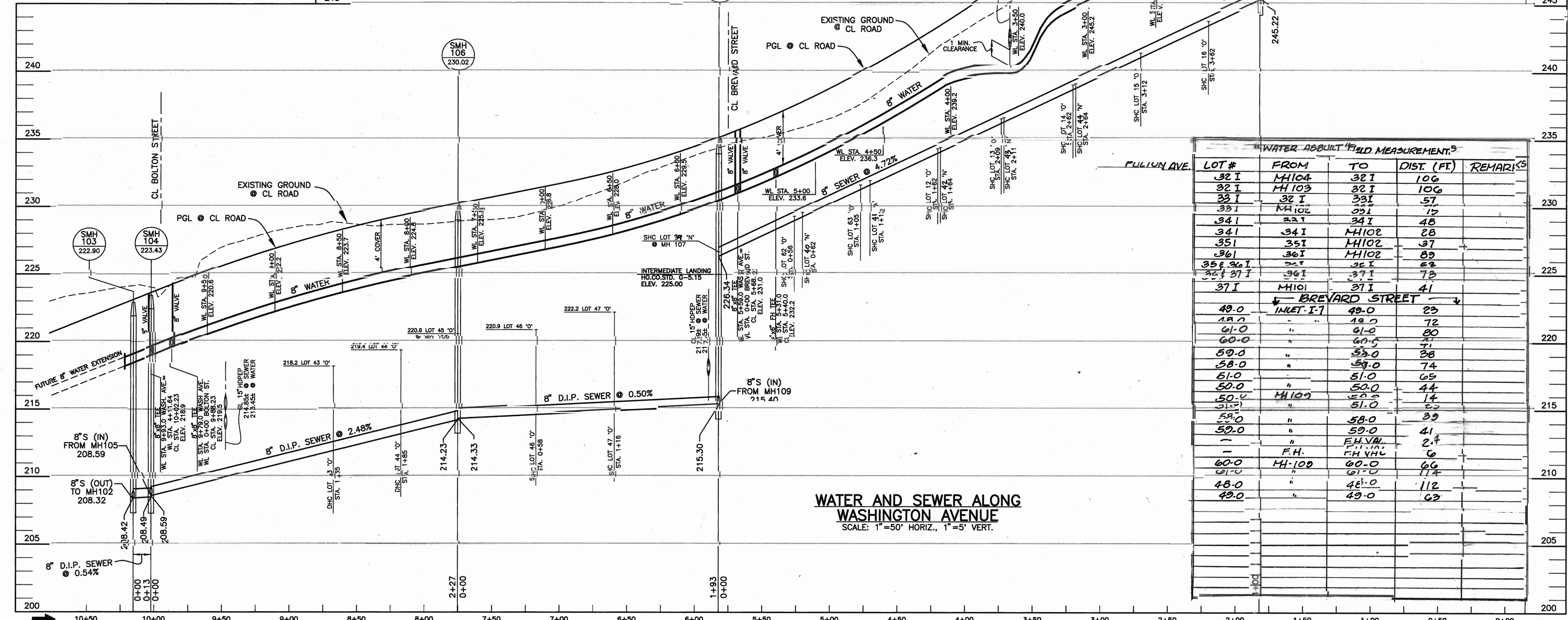


WATER AND SEWER ALONG BOLTON STREET  
SCALE: 1"=50' HORIZ., 1"=5' VERT.

LOT #	FROM	TO	DIST (FT)	REMARKS	LOT #	FROM	TO	DIST (FT)	REMARKS
MH108	18-0	19-0	28						
	19-0	20-0	31						
MH108	18-0	112	112						
	15-0	76	76						
	15-0	71	71						
	14-0	49	49						
	14-0	38-N	38						
	14-0	32-N	74						
	14-0	INLET I-5	64						
	14-0	INLET I-6	51						
	14-0	18-0	50						
INLET I-4	18-0	13	13						
	33-N	77	77						
	32-N	47	47						
	31-N	59	59						
	12-0	41	41						
	30-N	38	38						
	30-N	101	101						
INLET I-5	30-N	09	09						
	62-0	106	106						
	16-0	56	56						
	13-0	36	36						
	32-N	01	01						
	32-N	18	18						
F.H. STA 5140	63-0	74	74	STA 5140					
	62-0	25	25						
	30-N	04	04						
	28-N	55	55						
	28-N	20	20						
F.H.V. STA 5140	F.H.	22	22						
	14-0	45	45						
MH107	28-N	43	43						
	29-N	81	81						
F.H.V. STA 5140	30-N	86	86	STA 5140					
	63-N	78	78						
MH107	62-0	73	73						
F.H.V. STA 5140	62-0	36	36						
MH107	42-0	68	68						



WATER AND SEWER ALONG BREVARD STREET  
SCALE: 1"=50' HORIZ., 1"=5' VERT.



WATER AND SEWER ALONG WASHINGTON AVENUE  
SCALE: 1"=50' HORIZ., 1"=5' VERT.

LOT #	FROM	TO	DIST (FT)	REMARKS
32 I	MH104	32 I	106	
32 I	MH103	32 I	106	
33 I	32 I	33 I	57	
33 I	MH102	33 I	10	
34 I	33 I	34 I	48	
34 I	34 I	MH102	28	
35 I	35 I	MH102	37	
36 I	36 I	MH102	89	
35 & 36 I	35 I	36 I	82	
36 I	36 I	37 I	78	
37 I	MH101	37 I	41	
48-0	INLET I-7	48-0	23	
48-0		48-0	72	
61-0		61-0	50	
60-0		60-0	71	
59-0		59-0	38	
58-0		58-0	74	
61-0		61-0	69	
50-0		50-0	44	
50-0	MH102	50-0	14	
51-0		51-0	52	
59-0		58-0	39	
59-0		59-0	41	
	F.H.V.	F.H.V.	24	
	F.H.V.	F.H.V.	6	
60-0	MH102	60-0	66	
61-0		61-0	174	
48-0		48-0	112	
49-0		49-0	62	

OWNER/DEVELOPER:  
CORNERSTONE HOLDINGS, L.L.C.  
9695 NORFOLK AVENUE  
LAUREL, MARYLAND 20723  
410-792-2565

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 • SUITE 418  
ELICOTT CITY, MARYLAND 21043  
PHONE: 410-465-6105 FAX: 410-465-6844

DESIGN: DBT  
DRAFT: DBT  
CHK: DAM  
DATE: 6/03

PROFILES AND DETAILS  
KCI 2 WATER AND SEWER ASBUILT DATA 06/21/04  
7/3/03  
REVISIONS

600 SCALE MAP NO. 50  
BLOCK 3

**NORTH LAUREL PARK**  
WASHINGTON AVENUE, BREVARD STREET, BOLTON STREET  
LOTS 32-34 BLOCK 'I'; LOTS 42-42 BLOCK 'J'; LOTS 39-44 BLOCK 'N';  
AND LOTS 12-15, 41-51, 58-63 BLOCK 'O'  
ELECTION DISTRICT NO. 6  
**CONTRACT NO. 24-4041-D**

SCALE:  
AS SHOWN  
SHEET NO.  
2 OF 2

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