

QUANTITY TABLE

ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
STANDARD MH	9	9	PRECAST	FREDERICK PRECAST/
8" SEWER MAIN	1,408 L.F.	1,408 L.F.	SDR-35	NORTH AMERICAN/HD SUPPLY
4" SEWER HOUSE CONNECTION	560 L.F.	560 L.F.	SDR-35	NORTH AMERICAN/HD SUPPLY
# SEWER HOUSE CONNECTIONS	25	35	SDR-35	NORTH AMERICAN/HD SUPPLY
# MH SEWER HOUSE CONNECTIONS	5	5	SDR-35	NORTH AMERICAN/HD SUPPLY
8" WATER	510 L.F.	510 L.F.	DR-14	NORTH AMERICAN/HD SUPPLY
6" WATER	310 L.F.	305 L.F.	DR-14	NORTH AMERICAN/HD SUPPLY
4" WATER	113 L.F.	119 L.F.	DR-14	NORTH AMERICAN/HD SUPPLY
1" WHC	680 L.F.	680 L.F.	COPPER	CAMBRIDGE LEE/HD SUPPLY
# WHC	9			
# TWHC	13			
8"x6" FHT&V	2	1	GATE VALVE	KENNEDY VALVE/HD SUPPLY
FIRE HYDRANTS	2	1		KENNEDY VALVE/HD SUPPLY
8"x6" TS&V	1	1	TAP SLAVE VALVE	FORD METER BOX/HD SUPPLY
8"x6" TS&V	1	1	"	"
4" 1/8 HB	1			
4" 1/16 HB	2			
8"x4" REDUCER	1	1	MJ REDUCER	SIGMA/HD SUPPLY
6" CAP & BUTTRESS	1	1	MJ CAP	SIGMA/HD SUPPLY
4" CAP & BUTTRESS	1	1	MJ CAP	SIGMA/HD SUPPLY
6" DIP WATER		108 L.F.	DIP, CL 9	U.S. PIPE & FOUNDRY/HD SUPPLY
NAME OF UTILITY CONTRACTOR: S.E.H. EXCAVATING, INC.				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE: OCTOBER 2010				

WATER / SEWER MAIN TABULATION CHART			
APPURTENANCE	ROAD	STATION	OFFSET
MH 1	MAGNOLIA	3+44.70	6.11 L
MH 2	MAGNOLIA	3+44.70	7.00 R
MH 3	ELM	1+57.77	5.14 R
MH 4	ELM	4+77.00	4.80 R
MH 5	MAGNOLIA	7+05.25	7.00 R
MH 6	CHERRY	7+97.00	5.00 R
8"x6" TS&V	MAGNOLIA	3+54.68	23.12 L
8"x6" FHT&V	ELM	0+23.88	20.74 L
8"x6" FHT&V	ELM	4+76.00	18.50 L
8"x6" TEE & 6"V	MAGNOLIA	6+95.25	7.00 R
8"x4" REDUCER	ELM	4+77.32	22.50 L
4" 1/8 HB	ELM	4+65.84	5.40 L
4" 1/16 HB	ELM	4+74.05	13.35 L
8"x6" TS&V	MAGNOLIA	6+95.25	10.19 L
APPURTENANCE		NORTHING	EASTING
8" 1/32 HB		N 550.397	E 1,382.015
8"x6" TS&V		N 550.383	E 1,382.001
4" 1/16 HB		N 550.836	E 1,381.892
4" CAP AND BUTTRESS		N 550.780	E 1,381.861
6" CAP AND BUTTRESS		N 550.497	E 1,381.925
MH 7		N 550.842	E 1,381.884
MH 8		N 550.793	E 1,381.756
MH 9		N 550.284	E 1,381.146

EROSION AND SEDIMENT CONTROL FOR THIS CONTRACT IS PROVIDED UNDER : GP-09-05

LEGEND

- 8" S EXISTING SEWER MAIN AND MANHOLE
- 8" W EXISTING WATER MAIN AND VALVE
- EXISTING FIRE HYDRANT
- PROPOSED SEWER MAIN
- PROPOSED WATER MAIN, TAPPING SLEEVE AND VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED TEE AND VALVES
- PROPOSED HALF BEND
- PROPOSED WATER AND SEWER EASEMENT
- PROPOSED SEWER HOUSE CONNECTION
- PROPOSED WATER HOUSE CONNECTION
- PROPOSED TWIN SEWER HOUSE CONNECTION
- PROPOSED SEWER MANHOLE
- PROPOSED TWIN WATER HOUSE CONNECTION
- PROPOSED END CAP AND BUTTRESS

VICINITY MAP

SCALE : 1" = 600'
ADC MAP 17 C,12

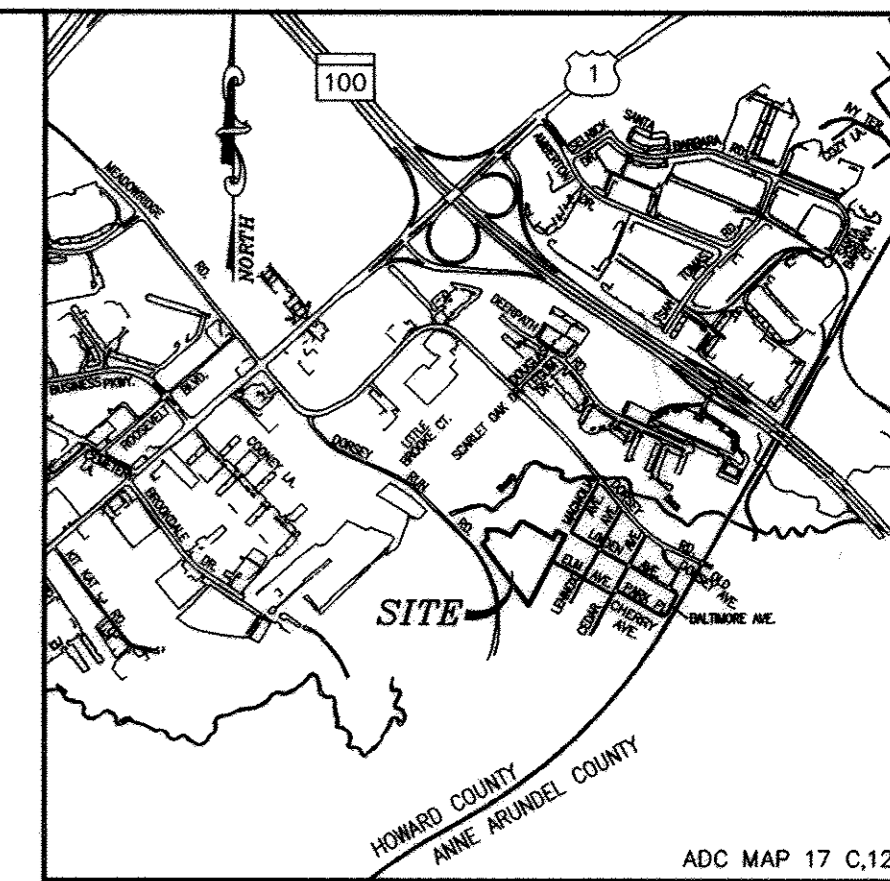
TYPE OF BUILDING	SFD
NO. OF UNITS	25
NO. OF WATER HOUSE CONNECTION	9
NO. OF SEWER HOUSE CONNECTIONS	35
NO. OF TWIN WATER HOUSE CONNECTION	13
NO. OF TWIN SEWER HOUSE CONNECTIONS	0
DRAINAGE AREA	PATAPSCO
TREATMENT PLANT	PATAPSCO

**CONTRACT NO.: 14-4559-D
LENNOX PARK,**

**LOTS 1174, 1175, 1178, 1179, 1182-1193, & 1196-1206,
355, 358, 361, 873, 875, 877, 891, 893
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS**

INDEX OF DRAWINGS

NO.	DESCRIPTION
1	TITLE SHEET
2	WATER AND SEWER PLAN
3	WATER AND SEWER PROFILES



GENERAL NOTES

- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON FEBRUARY 2003 BY WINGS AERIAL MAPPING SUPPLEMENTED BY TOPOGRAPHIC SURVEY PERFORMED BY MILDENBERG BOENDER & ASSOCIATES IN DECEMBER 2007.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS: THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 43R1 AND NO. 43B2. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE HO.CO. GEODETIC CONTROL STA. 43R1 & 43B2.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. 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 MONEYS OWNED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWING, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS 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 [Symbol] AT THE LOCATIONS OF THE TEST PITS. 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 OR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT&T	1-800-252-1133
BGE(CONSTRUCTION SERVICES)	410-850-4620
BGE(EMERGENCY)	410-685-1400
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE CO.	410-795-1390
STATE HIGHWAY ADMINISTRATION	410-531-5533
VERIZON	1-800-743-0033/410-224-9210
MISS UTILITY	1-800-257-7777

- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATED. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD 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.

WATER

- ALL WATER MAINS SHALL BE PVC UNLESS OTHERWISE NOTED. (DR-14)
- TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF 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 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 INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS. FIRE HYDRANTS ARE D.I.P. ONLY. VALVES ARE TO BE ATTACHED WITH IRON FITTINGS AND CONCRETE ANCHORS. THE DIMENSION RATIO FOR PVC MAIN SHALL BE 18, EPOXY COATED DIP OR PVC FITTINGS. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL SINGLE WATER HOUSE CONNECTIONS ARE TO BE 1".
- ALL LOTS ARE TO HAVE 1" WATER HOUSE CONNECTION WITH 3/4" INSIDE METER SETTING.

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 PLANS SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.22. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATED THAT THE CELLAR CANNOT BE SERVED.

AS-BUILT

AS BUILT

DATE: OCTOBER 2010

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER'S SIGNATURE: *James E. Lennox* DATE: 5/16/09

DEVELOPER'S NAME: LENNOX PARK LIMITED PARTNERSHIP

6800 DEERPATH ROAD SUITE 100 ELKRIDGE MARYLAND 21075-6200

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

ENGINEER'S SIGNATURE: *R. JACOB HIKMAT* DATE: 5/17/09

ENGINEER'S NAME: R. JACOB HIKMAT

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

HOWARD SCD: *John R. Robertson* DATE: 6/18/09

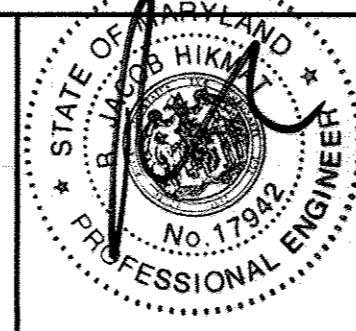
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

CHIEF, DEVELOPMENT ENGINEERING DIVISION

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Elkton City, Maryland 21042
(410) 937-0226 Cell (410) 937-0228 Fax



engineering	JJO				
illustration	JJO				
approval	RJH				
project	1996-076	NSA	1	UPDATE TABLES	1/10/09
date	MAR 2009	BY	NO.	REVISION	DATE

TITLE SHEET

600' SCALE MAP NO. 43 BLOCK NO. 6

LENNOX PARK,
LOTS 1174, 1175, 1178, 1179, 1182-1193, & 1196-1206,
355, 358, 361, 873, 875, 877, 891, 893
CONTRACT NO. 14-4559-D
TAX MAP 43 PARCEL 698
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

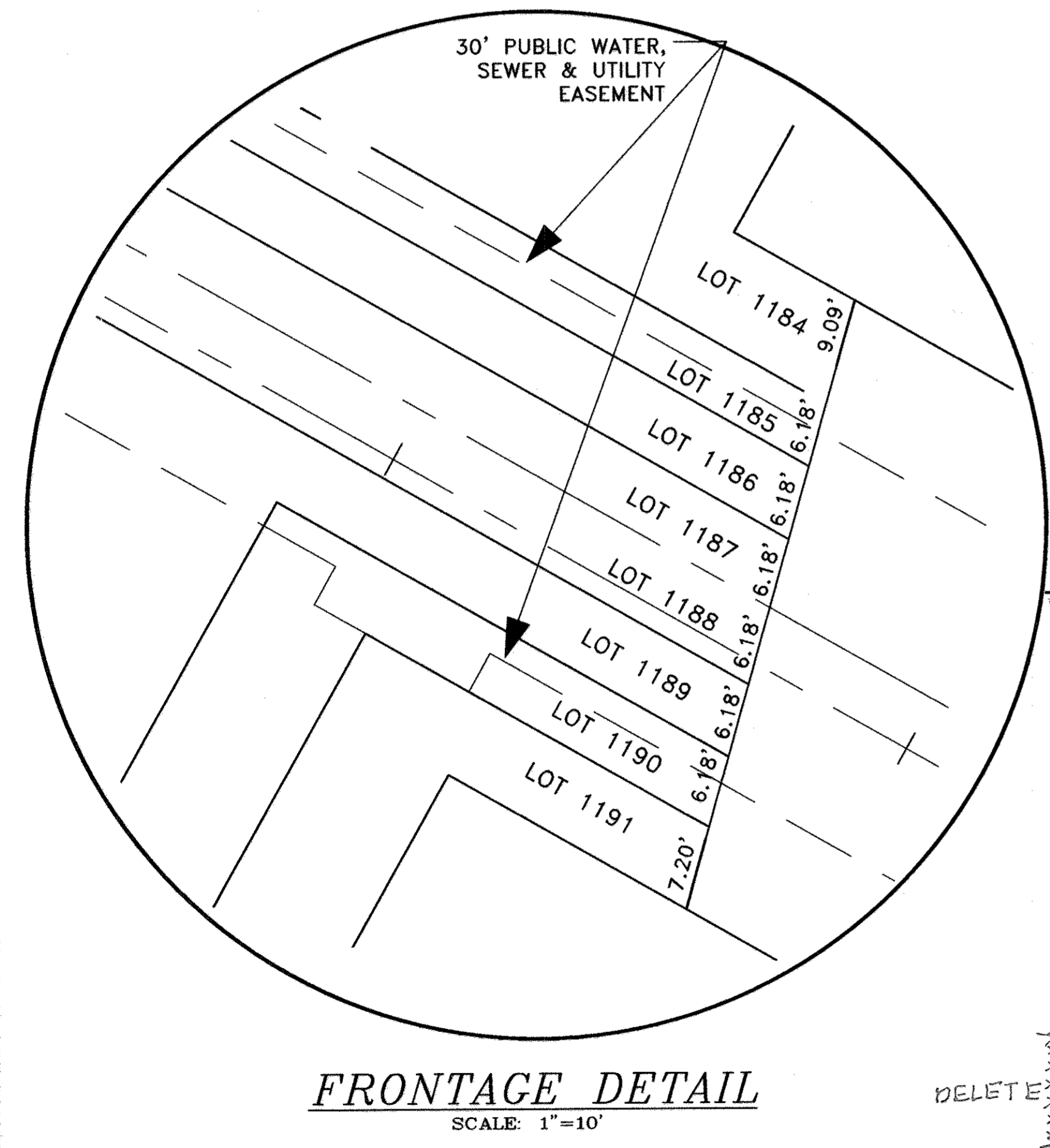
scale
AS SHOWN
1 OF 3

SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE

LOT	ADDRESS	FROM	TO	FEET	TO	FEET	LOT	ADDRESS	FROM	TO	FEET	TO	FEET			
1174	6932 MAGNOLIA AVE	SHC	I-1	105.2	Ex.FH	74.3	1174	6932 MAGNOLIA AVE	T-WHC	I-1	95.2	Ex.FH	81.1			
1175	6934 MAGNOLIA AVE	SHC	I-1	60.0	Ex.FH	117.2	1175	6934 MAGNOLIA AVE	T-WHC	I-1	90.8	Ex.FH	84.8			
1178	6940 MAGNOLIA AVE	SHC	SMH-2	40	Ex.SMH	505	47	1178	6940 MAGNOLIA AVE	WHC	SMH-2	36.3	Ex.SMH	505	52	
1179	6995 ELM AVE	SHC	SMH-3	46.5	I-4	61	1179	6995 ELM AVE	WHC	SMH-3	42.3	I-4	65			
1182	6989 ELM AVE	SHC	I-4	101.2	SMH-4	126.3	1182	6989 ELM AVE	T-WHC	I-4	109.5	SMH-4	117.8			
1183	6987 ELM AVE	SHC	I-4	130.6	SMH-4	87.3	1183	6987 ELM AVE	T-WHC	I-4	113	SMH-4	114.3			
1184	6985 ELM AVE	SHC	FH	109	41.3	SMH-4	27	1184	6985 ELM AVE	T-WHC	FH	109	39.5	SMH-4	22.2	
1185	6983 ELM AVE	SHC	SMH-4	16	FH	109	39.5	1185	6983 ELM AVE	T-WHC	SMH-4	20	FH	109	31.5	
1186	6974 ELM AVE	SHC	SMH-5	12	SMH-6	55	1186	6974 ELM AVE	T-WHC	SMH-5	48.0	SMH-6	12.0	6		
1187	6976 ELM AVE	SHC	SMH-5	60.5	SMH-6	12.4	1187	6976 ELM AVE	T-WHC	SMH-5	51	SMH-6	10			
1188	6978 ELM AVE	SHC	SMH-6	24	SHC	1187	21	1188	6978 ELM AVE	WHC	SMH-6	20	SHC	1187	23.8	
1189	6980 ELM AVE	SHC	SMH-4	39.3	FH	109	27	1189	6980 ELM AVE	WHC	SMH-4	33.5	FH	109	20	
1190	6982 ELM AVE	SHC	SMH-4	51	WHC	1190	6.3	1190	6982 ELM AVE	T-WHC	SMH-4	60	WHC	1191	31	
1191	6984 ELM AVE	SHC	SHC	1189	39.7	SMH-4	68.5	1191	6984 ELM AVE	T-WHC	SHC	1189	44.4	SMH-4	62.5	
1192	6986 ELM AVE	SHC	SHC	1189	32.5	SMH-4	97.4	1192	6986 ELM AVE	WHC	SHC	1189	31	SMH-4	91.4	
1193	6988 ELM AVE	SHC	I-5	96.0	WHC	1193	10.7	1193	6988 ELM AVE	WHC	I-5	86.7	I-4	76.0		
1196	6994 ELM AVE	SHC	I-4	92	SMH-3	20.5	1196	6994 ELM AVE	WHC	I-4	69.5	SMH-3	35.5			
1197	6944 MAGNOLIA AVE	SHC	I-3	23.5	Ex. B	V	27.5	1197	6944 MAGNOLIA AVE	T-WHC	I-3	32.2	Ex. B	V	31	
1198	6946 MAGNOLIA AVE	SHC	I-3	62	Ex. B	V	52	1198	6946 MAGNOLIA AVE	T-WHC	I-3	36	Ex. B	V	32.7	
1199	6948 MAGNOLIA AVE	SHC	I-3	123.3	Ex. B	V	109.5	1199	6948 MAGNOLIA AVE	T-WHC	I-3	132	Ex. B	V	117.7	
1200	6950 MAGNOLIA AVE	SHC	SHC	1193	41	SMH-7	208.5	1200	6950 MAGNOLIA AVE	T-WHC	SHC	1193	36.5	WHC	1190	3.7
1201	6952 MAGNOLIA AVE	SHC	SMH-7	91.4	SHC	1193	40	1201	6952 MAGNOLIA AVE	T-WHC	SMH-7	83.2	SHC	1193	37	
1202	6954 MAGNOLIA AVE	SHC	SMH-7	55.5	SHC	1193	41	1202	6954 MAGNOLIA AVE	T-WHC	SMH-7	79.5	SHC	1193	35.7	
1203	6937 CHERRY AVE	SHC	SMH-8	77	WHC	1203	11.3	1203	6937 CHERRY AVE	T-WHC	SMH-8	68	WHC	1204	5	
1204	6935 CHERRY AVE	SHC	SMH-8	45.5	SHC	1205	33.5	1204	6935 CHERRY AVE	T-WHC	SMH-8	64.0	WHC	1204	28.5	
1205	6933 CHERRY AVE	SHC	SMH-8	39.7	TESTS.FAC	45	38	1205	6933 CHERRY AVE	T-WHC	SMH-8	51.7	TESTS.FAC	45	38	
1206	6931 CHERRY AVE	SHC	SMH-8	47.0	TESTS.FAC	38	38	1206	6931 CHERRY AVE	T-WHC	SMH-8	62	TESTS.FAC	54		
355	6235 MAGNOLIA AVE	SHC	Ex.FH	361	I-1	81.5	355	6235 MAGNOLIA AVE	WHC	Ex.FH	361	I-1	72			
356	6235 MAGNOLIA AVE	SHC	Ex.FH	361	I-1	131.4	356	6235 MAGNOLIA AVE	T-WHC	Ex.FH	361	I-1	138.5			
361	6231 MAGNOLIA AVE	SHC	Ex.FH	23.1	WHC	361	43.3	361	6231 MAGNOLIA AVE	T-WHC	Ex.FH	24.7	SHC	361	43.3	
875	6251 MAGNOLIA AVE	SHC	SMH-7	117.9	SHC	1200	40.2	875	6251 MAGNOLIA AVE	T-WHC	SMH-7	127.0	SHC	1200	40.1	
876	6253 MAGNOLIA AVE	SHC	SMH-7	169	SHC	1200	42	876	6253 MAGNOLIA AVE	T-WHC	SMH-7	131.7	SHC	1200	42	
877	6255 MAGNOLIA AVE	SHC	SMH-7	68	SHC	1202	41	877	6255 MAGNOLIA AVE	T-WHC	SMH-7	72.5	SHC	1202	4.5	
891	6261 MAGNOLIA AVE	SHC	SMH-7	28	SMH-9	46.5	891	6261 MAGNOLIA AVE	T-WHC	SMH-7	67.7	SMH-9	19			
893	6263 MAGNOLIA AVE	SHC	SMH-7	78	SMH-9	20.3	893	6263 MAGNOLIA AVE	T-WHC	SMH-7	72	SMH-9	19			

SEWER HOUSE CONNECTION TABLE

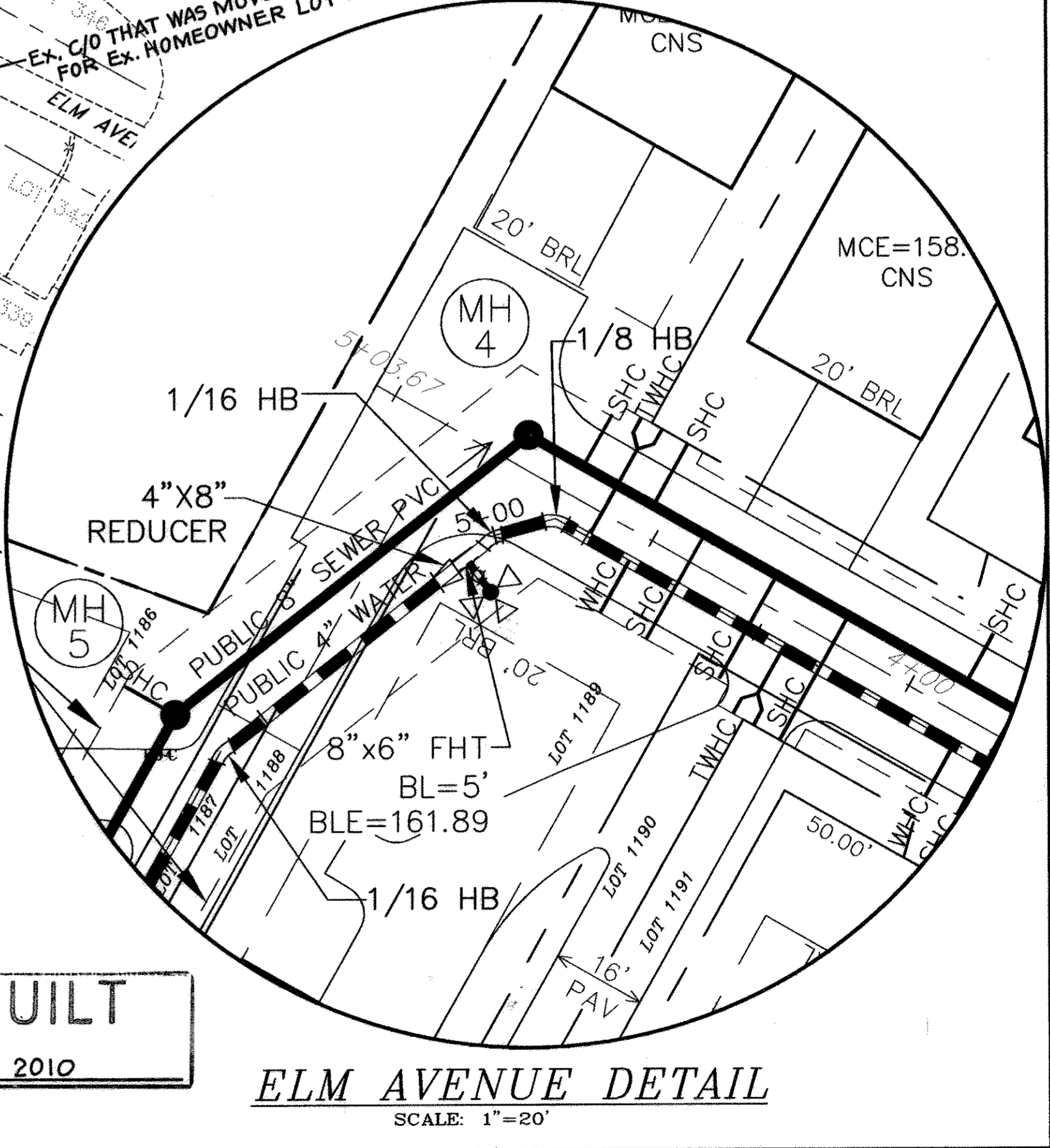
LOT	SHC TYPE	INV. @	MCE	SLOPE
1174	SHC	148.18	151.52	1%
1175	SHC	149.07	152.47	1%
1178	SHC	151.45	155.45	2%
1179	CNS	152.91	157.19	2%
1182	CNS	153.67	157.99	2%
1183	CNS	153.87	158.07	2%
1184	CNS	153.98	158.08	2%
1185	CNS	154.25	158.75	2%
1186	SHC	154.95	160.35	2%
1187	SHC	155.49	160.79	2%
1188	SHC	155.69	160.39	2%
1189	SHC	154.33	159.25	2%
1190	DSHC	154.25	162.25	2%
1191	DSHC	154.19	162.38	2%
1192	SHC	153.02	158.72	2%
1193	SHC	153.67	157.99	2%
1196	SHC	152.96	156.53	1%
1197	SHC	156.64	160.54	2%
1198	SHC	159.45	163.25	2%
1199	SHC	163.55	166.74	1%
1200	SHC	166.47	170.29	2%
1201	SHC	170.46	174.36	2%
1202	SHC	173.23	177.13	2%
1203	SHC	181.52	185.62	2%
1204	SHC	181.89	186.09	2%
1205	SHC	182.22	186.20	2%
1206	SHC	182.04	186.74	2%
355	SHC	148.83	153.33	2%
356	SHC	146.00	152.50	2%
361	SHC	147.00	161.50	1%
893	SHC	190.10	194.00	1%
891	SHC	184.16	187.76	1%
877	SHC	172.46	178.00	2%
875	SHC	169.00	174.46	1%
873	SHC	166.93	171.40	2%



WATER VALVES AND CLEAN-OUTS AS-BUILT

UNIT	FROM	TO	FEET	TO	FEET
TSV @ ELM & MAGNOLIA	VALVE	SMH-1	22	Ex.FH	17
TSV @ CHERRY & MAGNOLIA	VALVE	SMH-7	15.3	SMH-9	54
FHV @ STA 5+05	VALVE	FH	7.2	SMH-4	23.4
Ex. 8" VALVE @ LINDEN & MAG	UNDER ASPHALT CANNOT LOCATE				
Ex. #340/#349	Ex. 4" C/O	Ex.MH505	23	SMH-2	59
Ex. LOT 342	Ex. 4" C/O	SMH-1	50	I-3	29.3
TEST STATION @ FH STA 5+05 ELM AVE.	TEST STATION	FH	2	FHV	7
TEST STATION @ STA 12+85 CHERRY AVE. LT. OF SMH-8	TEST STATION	SMH-8	17.5	SHC LOT 1200	38
TEST STATION @ BLOWOFF	TEST STATION	SMH-6	8	WHC LOT 1188	14

LOT 1205/1200 TEST STATION IS LEFT OF SMH-8 AND AT THE END OF THE W ON CHERRY AVENUE



AS BUILT
DATE: OCTOBER 2010

NOTE:
EX. WHC & SHC TO BE ABANDONED

AS-BUILT

OWNER
LENNOX PARK LIMITED PARTNERSHIP
6800 DEERPATH ROAD
SUITE 100
ELKRIE MARYLAND 21075-6200

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Cell (410) 997-0298 Fax



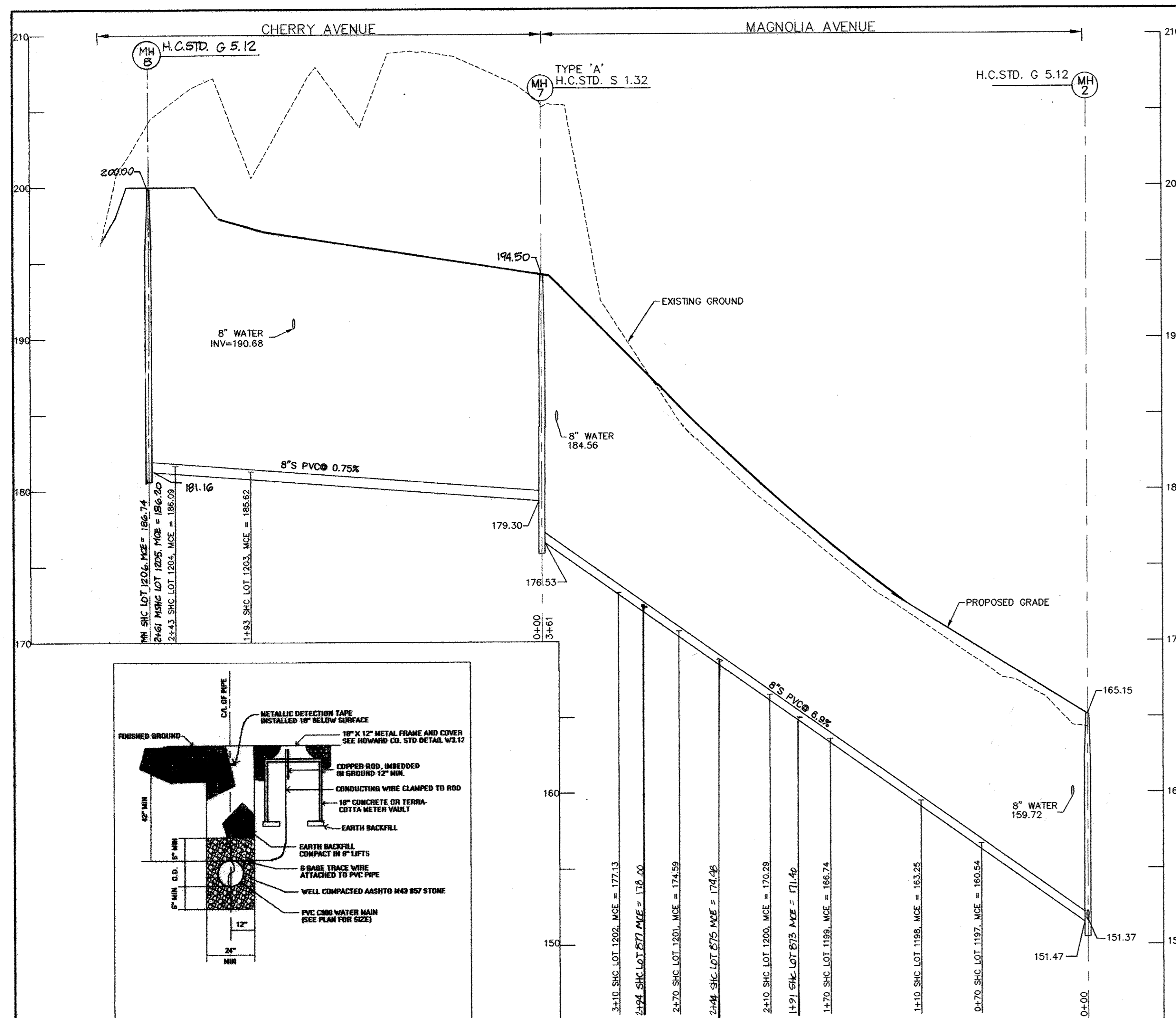
PROJECT	NO.	REVISION	DATE
1996-076	1	REVISE HORIZONTAL WATER ALIGNMENT	1/16/09
1996-076	1	ADD MH, WATER, AND SEWER HOUSE CONNECTIONS	1/16/09

WATER AND SEWER PLAN

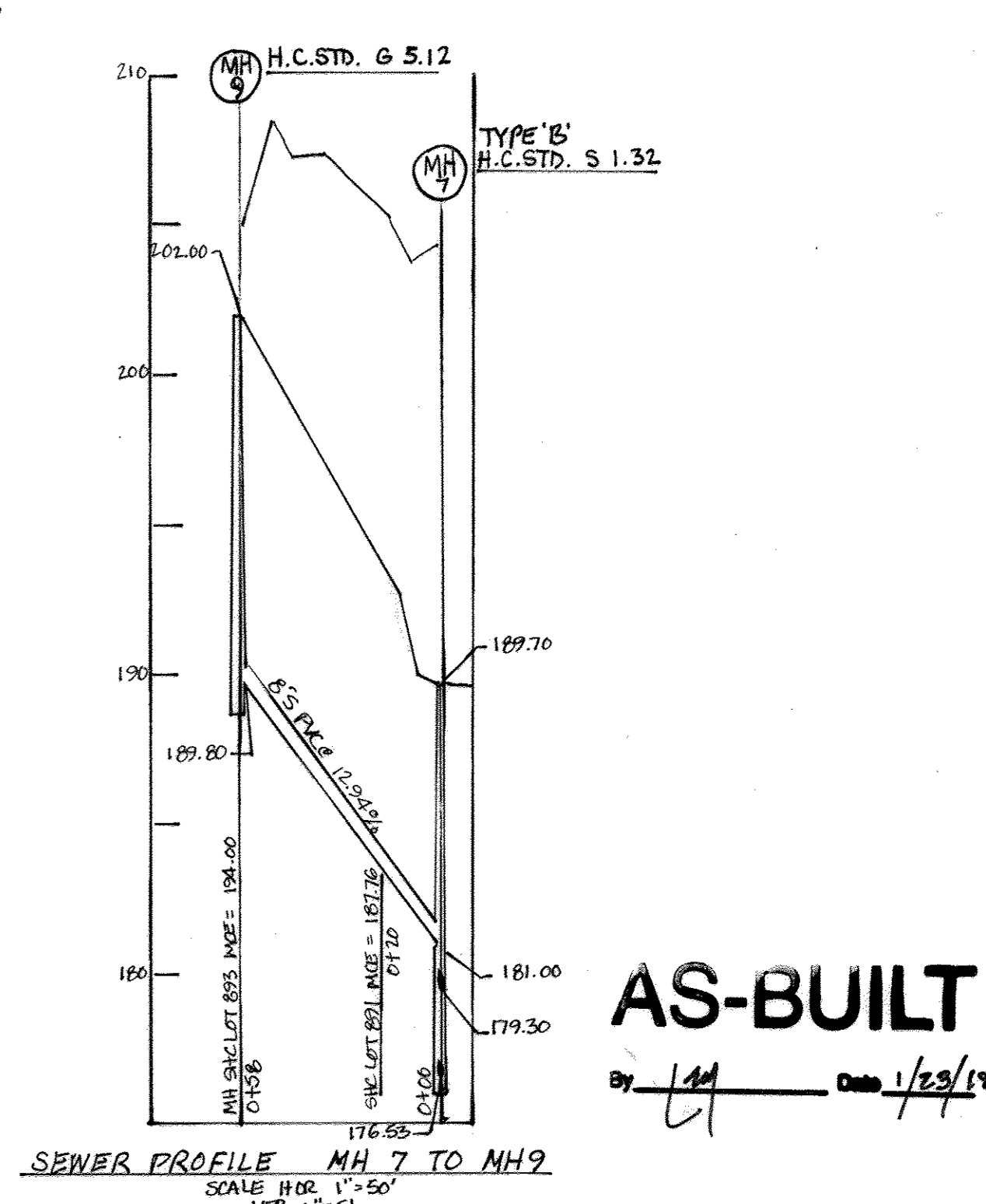
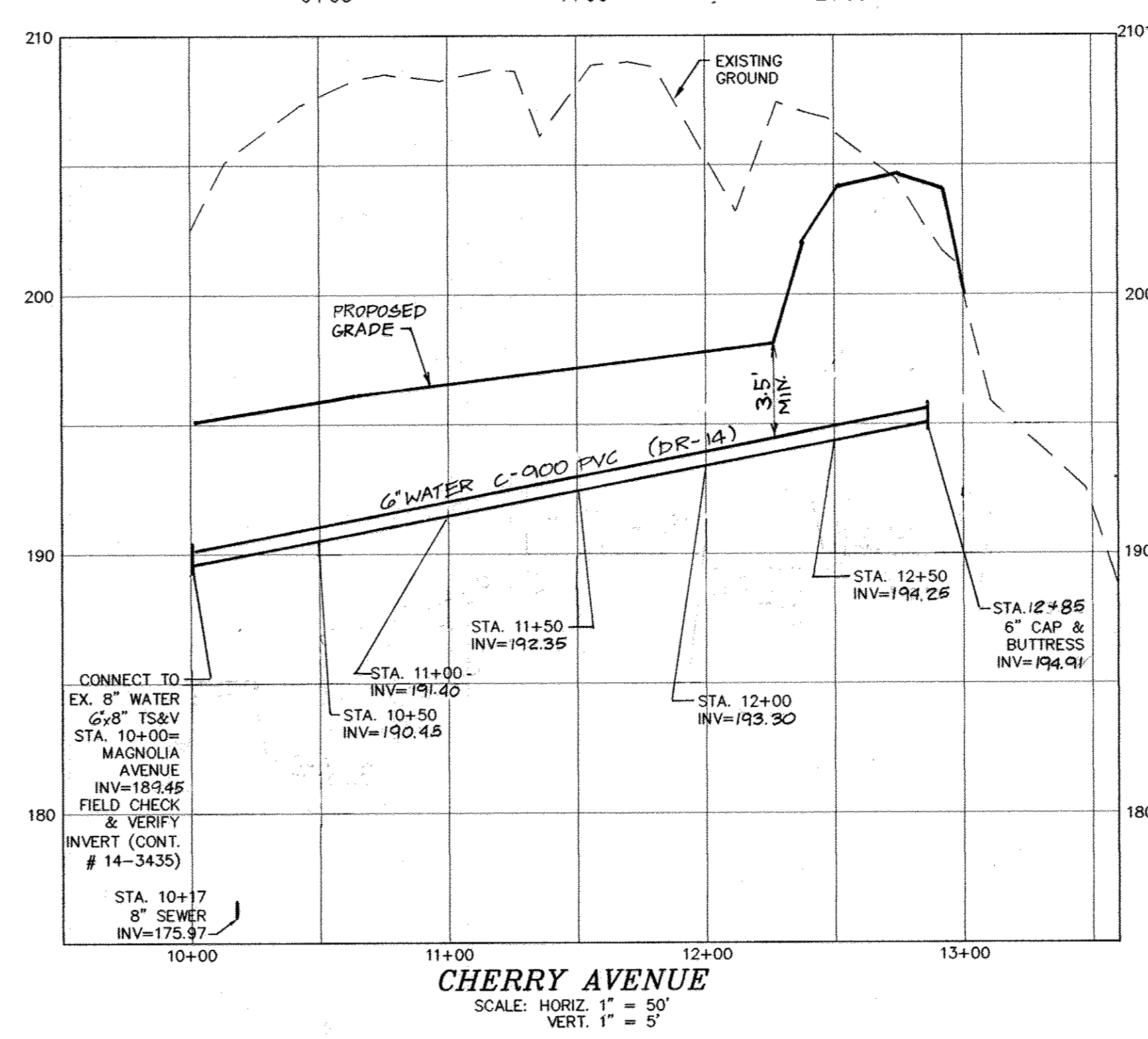
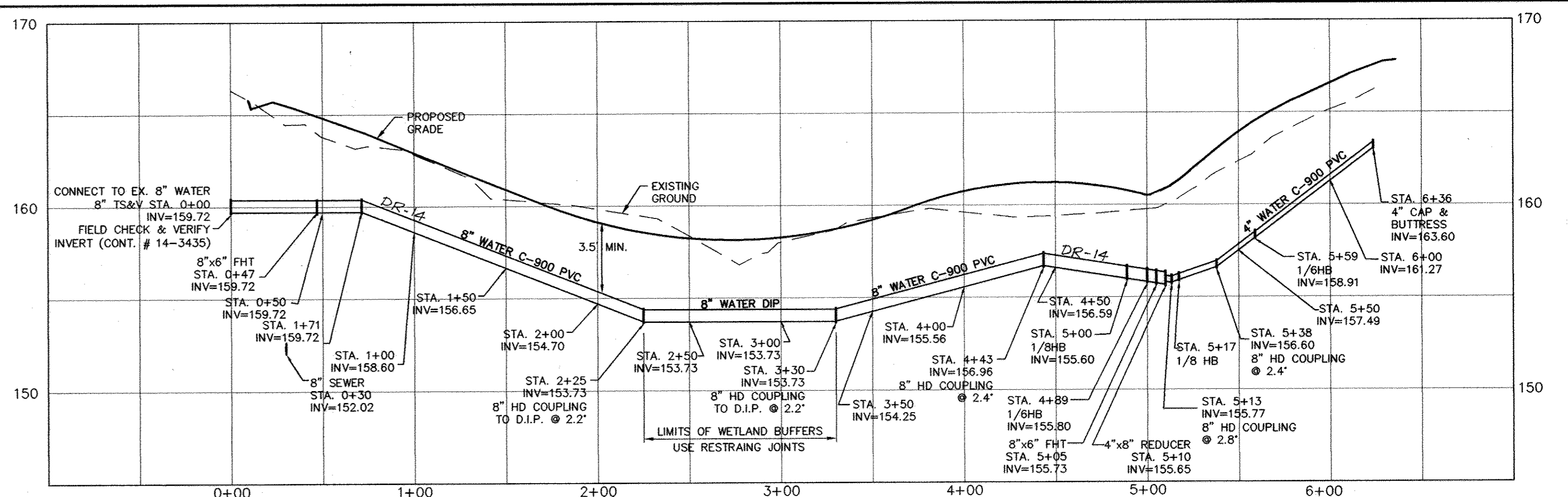
600' SCALE MAP NO. 43 BLOCK NO. 6

LENNOX PARK,
LOTS 1174, 1175, 1178, 1179, 1182-1193, & 1196-1206,
355, 356, 361, 875, 876, 877, 891, 893
CONTRACT NO. 14-4559-D
TAX MAP 43 PARCEL 698
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

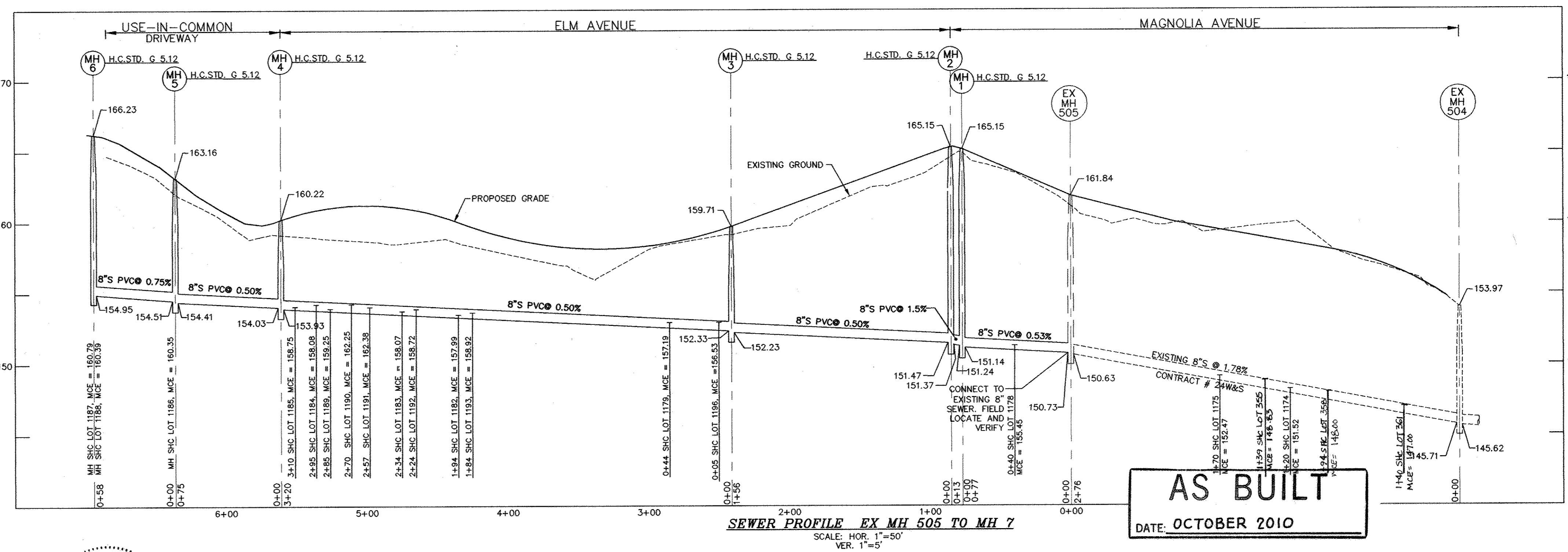
scale
1"=50'
2 of 3



SEWER PROFILE MH 2 TO MH 6
SCALE: HOR. 1"=50'
VER. 1"=5'

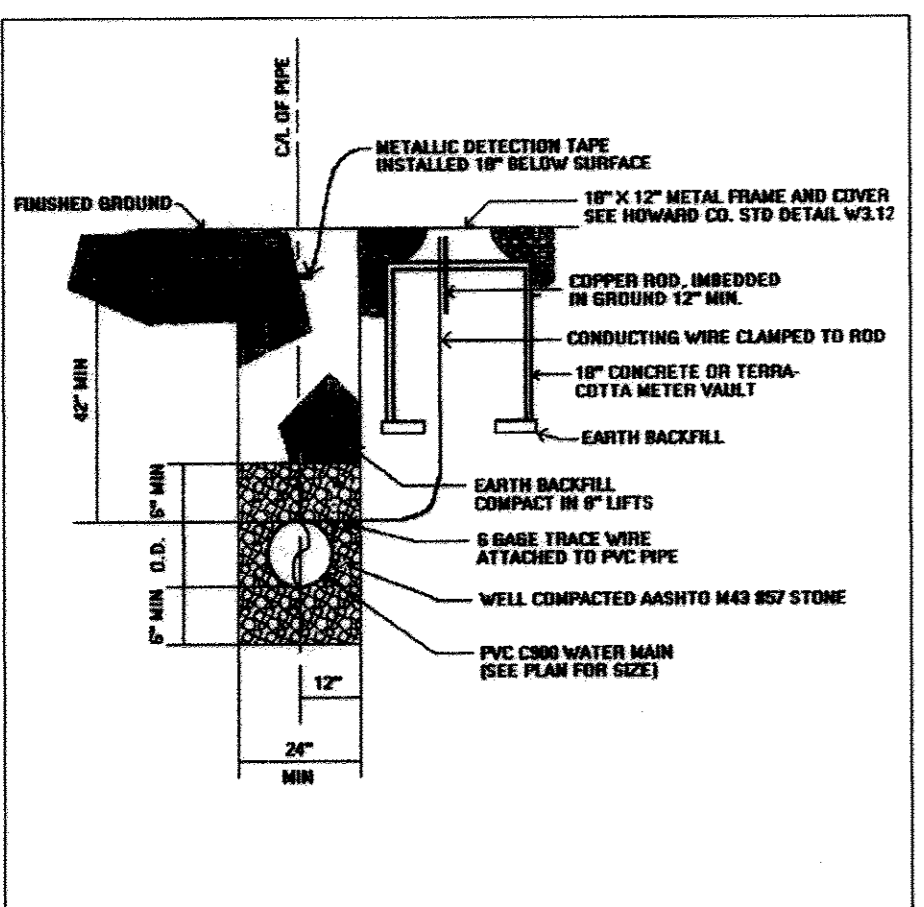


SEWER PROFILE MH 7 TO MH 9
SCALE: HOR. 1"=50'
VER. 1"=5'

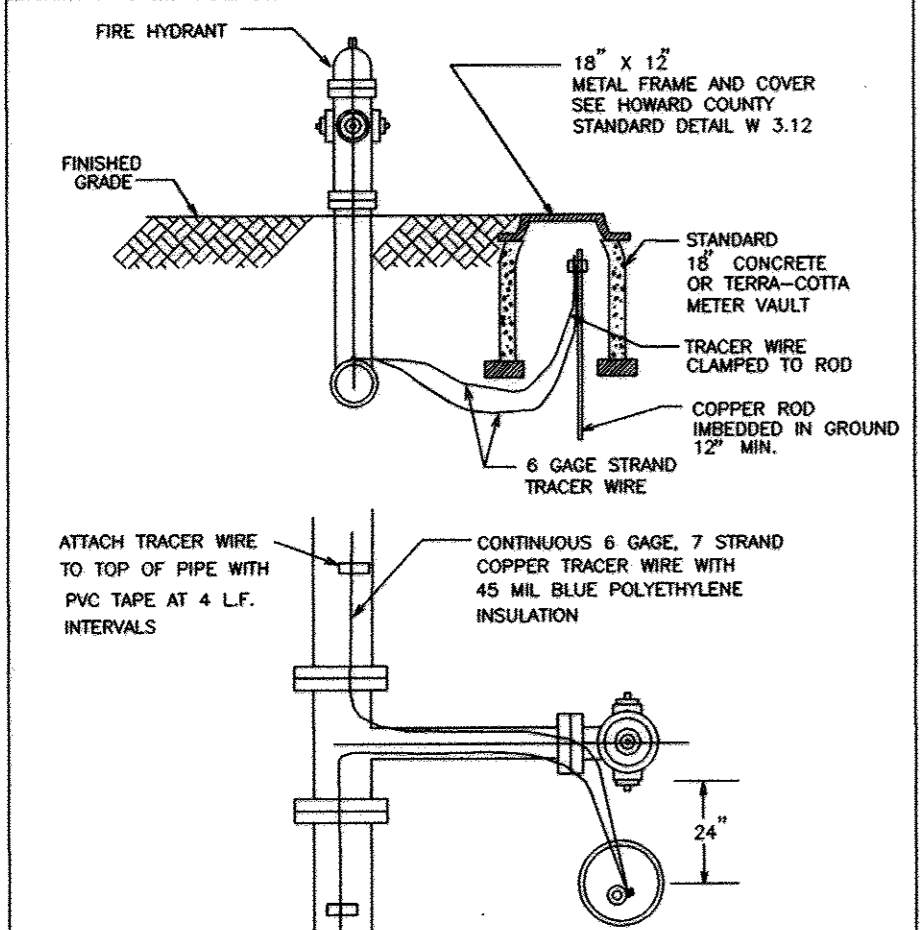


SEWER PROFILE EX MH 505 TO MH 7
SCALE: HOR. 1"=50'
VER. 1"=5'

AS BUILT
DATE: OCTOBER 2010



TRENCH FOR PVC PIPE AND CONTINUITY TEST STATION DETAIL



NOTES:
1. TEST STATION MUST BE PLACED TO THE RIGHT OR LEFT OF THE FIRE HYDRANT
2. VAULT FRAME AND COVER TO BE SET FLUSH WITH FINAL GRADE
3. ALL WIRE SPICES SHALL BE DONE AT TEST STATIONS UNDER GROUND SPICES ARE NOT ALLOWED
4. BUTTRESS AND STRAPPING NOT SHOWN FOR CLARITY

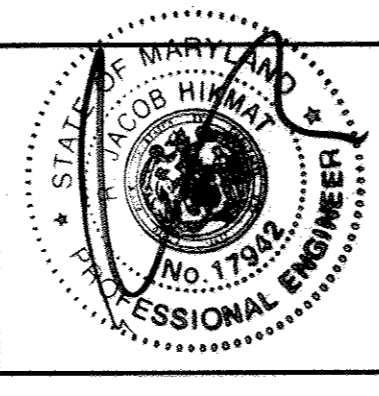
HOWARD COUNTY STANDARD INSTALLATION CONTINUITY TEST STATION AT FIRE HYDRANT & SPICES

OWNER
LENNOX PARK LIMITED PARTNERSHIP
6800 DEERPATH ROAD
SUITE 100
ELK RIDGE MARYLAND 21075-6200

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Ball. (410) 997-0298 Fax.



engineering	JJO				
illustration	JJO				
approval	RJH				
project	1996-076	MBA	2	REVISE WATER PROFILE, RELOCATE MH 8	08/2010
date	MAY 2009	MBA	1	REVISE SEWER PROFILES	01/10/09
		BY	NO.	REVISION	DATE

WATER AND SEWER PROFILES
600' SCALE MAP NO. 43 BLOCK NO. 6

LENNOX PARK,
LOTS 1174, 1175, 1178, 1179, 1182-1193 & 1196-1206,
355, 356, 361, 375, 376, 377, 378, 379, 383
CONTRACT NO. 14-4559-D
TAX MAP 43 PARCEL 698
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND