

SHEET INDEX	
1	COVER SHEET
2	WATER AND SEWER PLAN
3	WATER AND SEWER PLAN
4	WATER PROFILE
5	WATER PROFILES
6	WATER & SEWER 'AS-BUILT' DETAILS
7	SEWER PROFILES

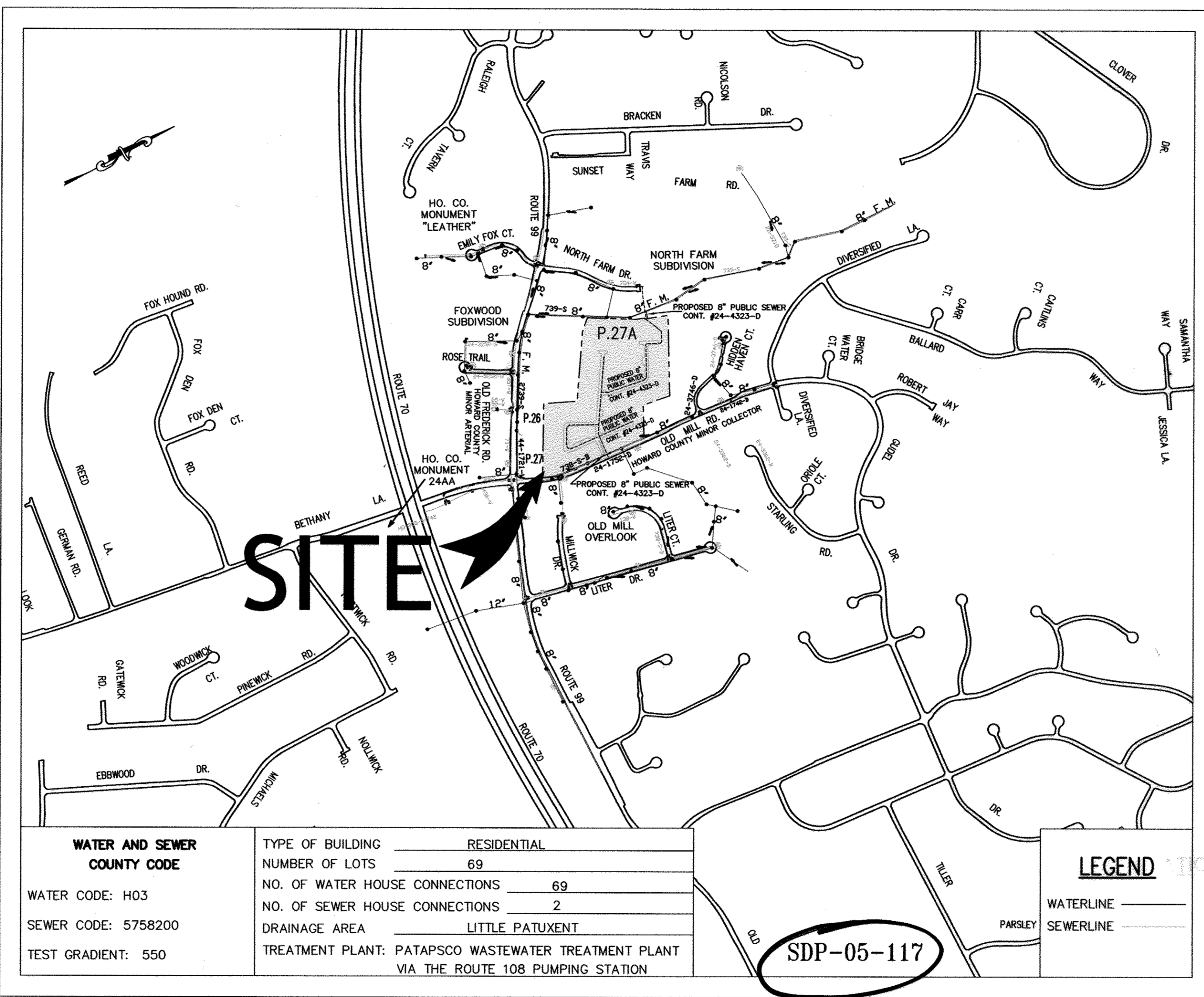
# PROPOSED WATER & PUBLIC SEWER MAIN

ENCLAVE AT ELLICOTT STATION

## 2nd ELECTION DISTRICT, TAX MAP 17, GRIDS 8 & 14 HOWARD COUNTY, MARYLAND 21042

ITEMS	QUANTITIES		AS-BUILT	
	ESTIMATED		QUANTITIES	TYPE
8" WATER MAIN	2,870 LF	2,855.0	CL-52 DIP	GRIFFIN/WATER WORKS
6" WATER MAIN	77 LF	81.0	CL-52 DIP	"
1-1/4" WHC	1,375 LF		K-COPPER	CERRO
1-1/2" WHC	80 LF		"	"
2-1/2" WHC	20 LF		"	"
8" SEWER MAIN	2503 LF	2503 LF	SDR 35 P.V.C.	DIAMOND
FHT	5 EA	5	DI MJ	TYLER
FIRE HYDRANTS	5 EA	5	K-81 HYD	KENNEDY
8" X 8" TEE	3 EA	3	M.J.	FORD METER BOX
8" X 8" TS&V	1 EA	1	TAPPING SLEEVE	FORD METER BOX
8" X 4" TEE	1 EA	1	M.J.	"
8" CAP	2 EA	2	M.J.	"
8" CAP & BUTTRESS	1 EA	1	M.J.	"
8-1/16" HB	6 EA	6	M.J.	"
8-1/8" HB	11 EA	11	M.J.	"
8"XB" CROSS	1 EA	1	M.J.	"
4" VALVE	1 EA	1	GATE VAL.	KENNEDY
8" VALVE	10 EA	10	GATE VAL.	"
8-1/16" - LVB	1 EA	1	M.J.	FORD METER BOX
8-1/16" - UVB	1 EA	1	M.J.	"
8-1/32" - LVB	1 EA	1	M.J.	"
8-1/32" - UVB	1 EA	1	M.J.	"
3" BLOW OFF	1 EA	1	"	"
SEWER MANHOLES	22 EA	22	PRECAST	ATLANTIC
4" SHC	106 LF			

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



### WATER GENERAL NOTES

- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" 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 STRAPPED 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 FOR THE TOWN HOUSES SHALL BE 1-1/2" FOR 1" OUTSIDE METER SETTINGS, UNLESS OTHERWISE NOTED ON THE PLANS, SERVING BOTH SPRINKLERS AND DOMESTIC USES. (REFER TO STD DETAIL W3.33 FOR 1" OUTSIDE METER SETTINGS)
- FOR COMMUNITY CENTER WATER HOUSE CONNECTION SHALL BE 4" FOR INSIDE METER SETTING.
- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACES SO AS TO HAVE AT LEAST ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- INDIVIDUAL METER VAULTS TO BE RELOCATED TO FRONT PROPERTY LINES. SEE SHEET 2.
- TWIN METER VAULTS TO BE RELOCATED TO COMMON PROPERTY LINES. SEE SHEET 2.
- ALL RELOCATIONS SHALL USE FLARED FITTINGS PER HOWARD COUNTY DESIGN MANUAL VOLUME IV.

### SEWER GENERAL NOTES

- 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 G5.52. WHERE WATERTIGHT 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 THE CELLAR CANNOT BE SERVED.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT 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.
- ALL PRIVATE SEWER SYSTEM WILL MAINTAIN BY HOME OWNER ASSOCIATION.

### GENERAL NOTES

- 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.
- TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON OCTOBER, 2004 BY AB CONSULTANTS, INC.
- HORIZONTAL & VERTICAL SURVEY CONTROLS:  
THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEMS NAD '83/'91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS HOWARD COUNTY MONUMENT 'LEATHER' AND NO. 244A.  
ALL VERTICAL CONTROLS ARE BASED ON NAD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE HOWARD COUNTY MONUMENT 'LEATHER' A DISK IN CONCRETE MONUMENT STAMPED 1958 AND NO. 244A A DISK SET IN CONCRETE MONUMENT.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.

### VICINITY MAP

SCALE: 1"=600'

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

*Jim Maguire* 5/30/06  
S.D.A. - NATURAL RESOURCES CONSERVATION SERVICE

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

*John P. Roberts* 5/30/06  
HOWARD SCD

### AB CONSULTANTS, INC.

9450 ANNAPOLIS ROAD  
LANHAM, MARYLAND 20706  
PHONE: (301) 306-3091  
FAX: (301) 306-3092



DES. : HRP			
DRN. : SRP/HRP			
CHK. : SBP	SAA	2	ADD LOTS, REVISIONS & ESMT & SHC
	KCI	1	AS-BUILT DATA SHOWN
DATE: 05-12-06	BY	NO.	REVISIONS

### COVER SHEET

50' SCALE MAP NO. 17  
BLOCK NO. 8 & 14

### ENCLAVE AT ELLICOTT STATION

AGE-RESTRICTED ADULT HOUSING COMMUNITY  
LOT 1 OF THE HARBIN PROPERTY MINOR SUBDIVISION  
UNITS 1 THRU 69 AND COMMUNITY CENTER  
2nd ELECTION DISTRICT, HOWARD COUNTY, MARYLAND  
PARCELS 26 & 27

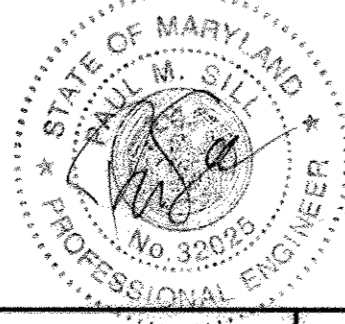
CONTRACT NO. : 24-4323-D

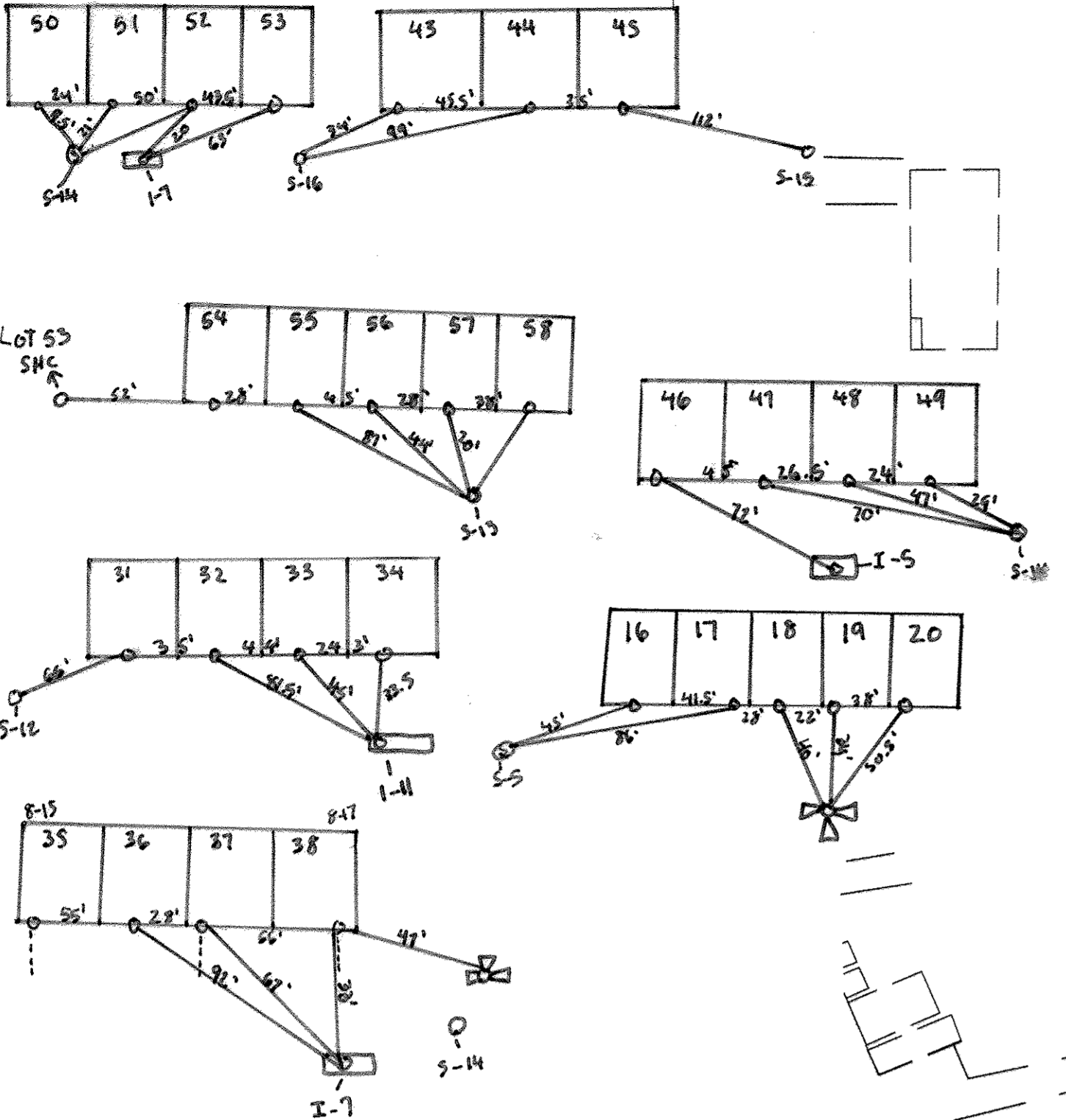
SCALE: AS SHOWN

SHEET NO. 1 OF 7

### DEVELOPER CONTACT INFORMATION

Skirven Enterprises, Inc.  
5405 Twin Knolls Road, Suite 6  
Columbia, MD 21045  
Attn: Charles Skirven  
410.730.8945

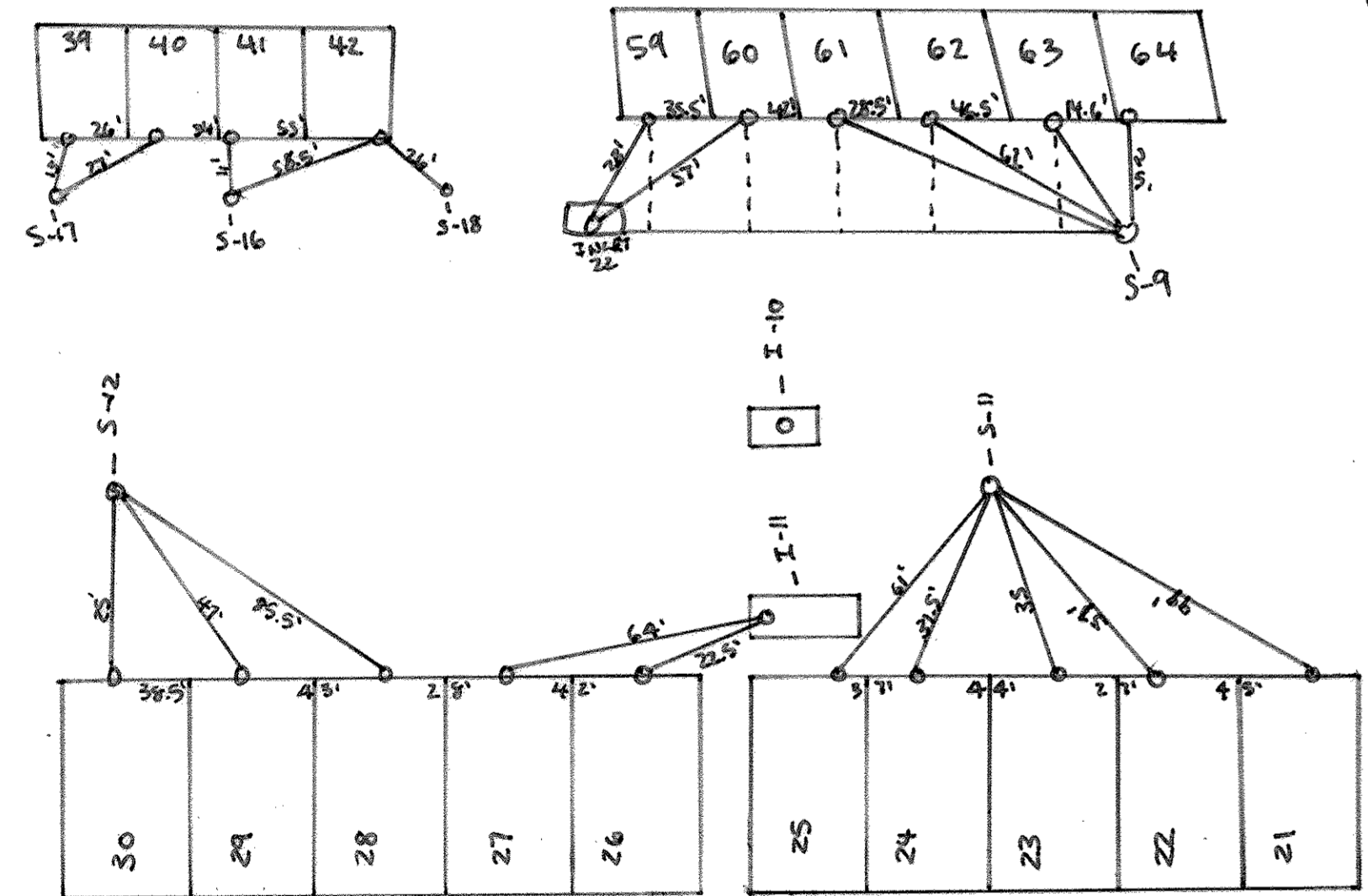




**UTILITY RELOCATION CHART**

LOT NUMBER	WATER HOUSE CONNECTION	SEWER HOUSE CONNECTION
6	NO	YES(2)
7	YES(1)	NO
8	YES(1)	NO
13	YES(1)	NO
14	YES(1)	NO
18	NO	YES
19	YES	NO
20	NO	YES
23	YES	NO
28	YES	NO
38	YES	NO
51	YES(1)	NO
52	YES(1)	NO
55	YES	NO

NOTES:  
 1. TWIN WATER HOUSE CONNECTION.  
 2. TWIN SEWER HOUSE CONNECTION.



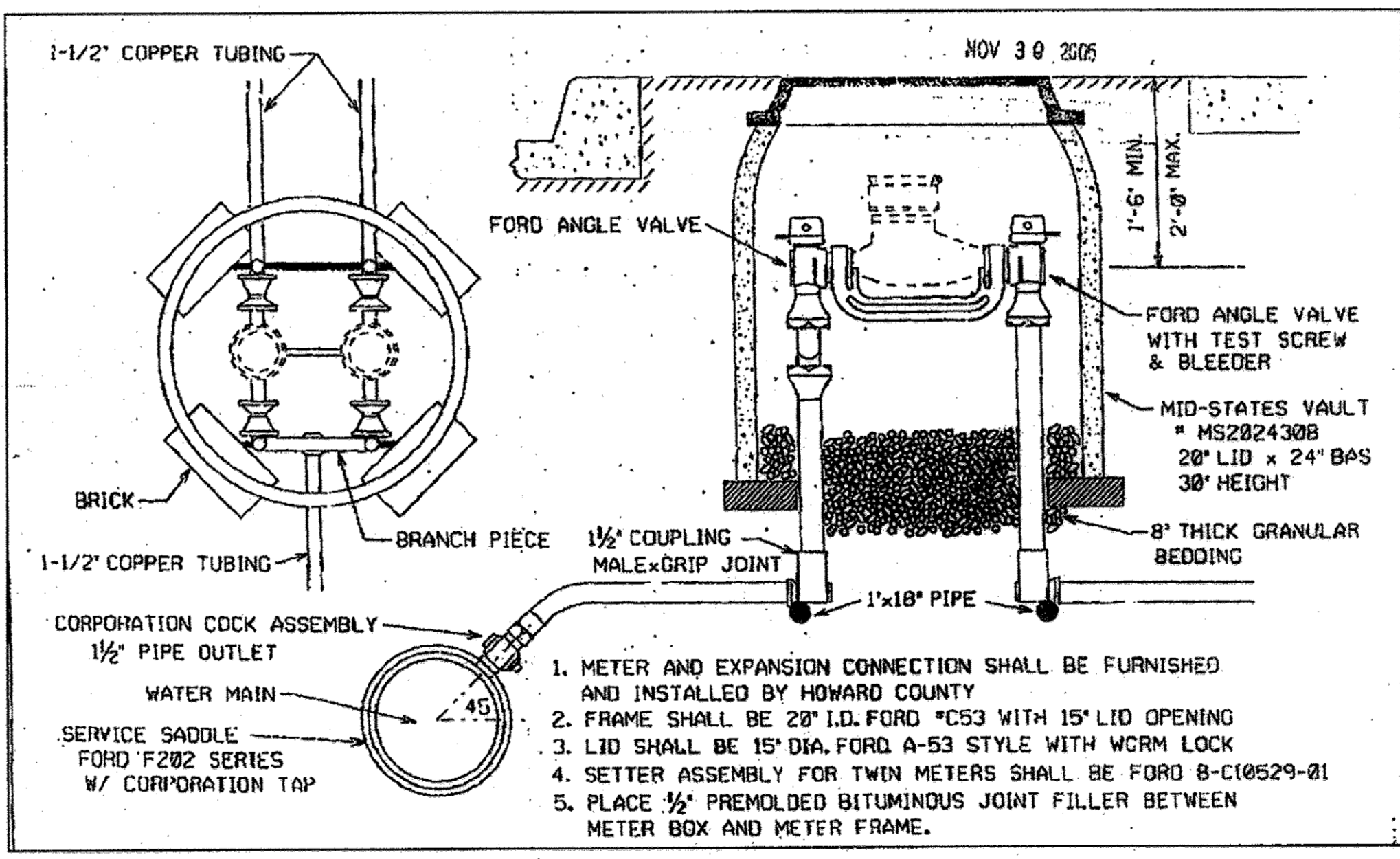
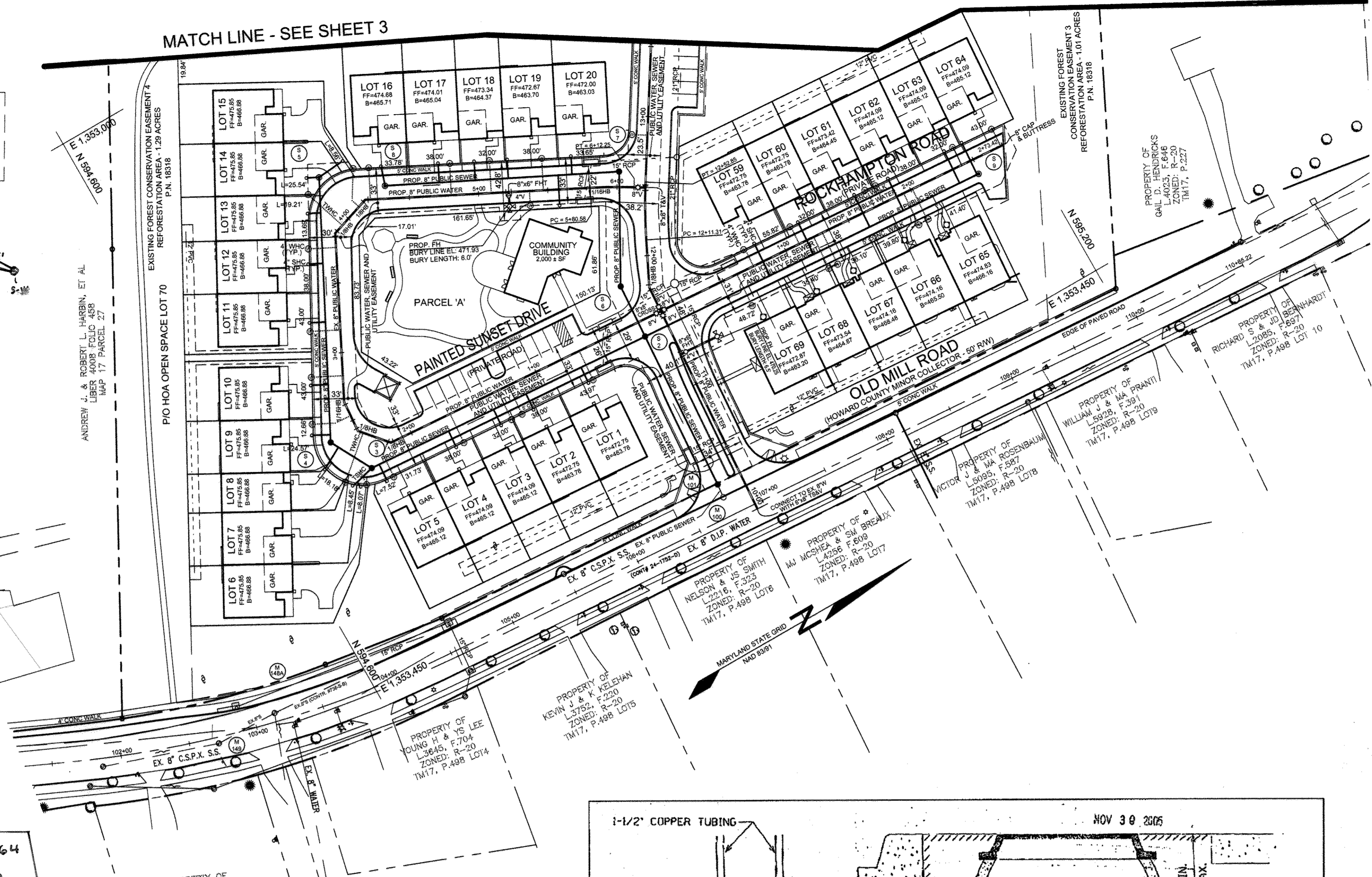
**UTILITY NOTES**

NOTIFY 'MISS UTILITY' AT 1-800-257-7777 - 48 HOURS PRIOR TO DOING ANY EXCAVATION IN THIS AREA.  
 THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

**INSET #1**  
 SCALE: 1"=10'

NOTE: CONTRACTOR TO USE SPILL GUTTER

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



**STANDARD INSTALLATION**  
 (1 1/2" WATER SUPPLY AND TWIN 1" METER SETTING)

NOT TO SCALE

NUMBER	FIXTURE	ROAD & STATION
1	8"x8" TS&V	ISABELLE'S WAY STA. 10+00
2	FIRE HYDRANT, 8" X 6" FHT	ISABELLE'S WAY STA. 11+24
3	8"x8" CROSS	ISABELLE'S WAY STA. 11+58.09
4	8-1/16" HB	ISABELLE'S WAY STA. 11+77.05
5	8"x8" T & V	ISABELLE'S WAY STA. 12+48.87
6	FIRE HYDRANT, 8" X 6" FHT	ISABELLE'S WAY STA. 14+43
7	8"x8" T & V	ISABELLE'S WAY STA. 14+82.48
8	FIRE HYDRANT, 8" X 6" FHT	ISABELLE'S WAY STA. 17+35.44
9	8" CAP	ISABELLE'S WAY STA. 17+36.94
10	8-1/16" HB	QUEENSLAND DRIVE STA. 0+68.21
11	8-1/16" HB	QUEENSLAND DRIVE STA. 3+22.13
12	FIRE HYDRANT, 8" X 6" FHT	QUEENSLAND DRIVE STA. 3+44.29
13	8-1/8" HB	QUEENSLAND DRIVE STA. 3+66.67
14	8-1/8" HB	QUEENSLAND DRIVE STA. 5+96.07
15	8-1/8" HB	QUEENSLAND DRIVE STA. 6+10.00
16	8-1/16" LVB	QUEENSLAND DRIVE STA. 6+85.92
17	8-1/16" UVB	QUEENSLAND DRIVE STA. 7+09
18	8" VALVE	QUEENSLAND DRIVE STA. 6+80.00
19	8-1/8" HB	QUEENSLAND DRIVE STA. 6+97.10
20	8-1/8" HB	QUEENSLAND DRIVE STA. 7+11.34
21	8-1/8" HB	QUEENSLAND DRIVE STA. 8+07.97
22	8-1/32" LVB	QUEENSLAND DRIVE STA. 9+27.07
23	8-1/8" HB	QUEENSLAND DRIVE STA. 9+35.66
24	8-1/32" UVB	QUEENSLAND DRIVE STA. 9+57.41
25	3" BLOW OFF	QUEENSLAND DRIVE STA. 9+77
26	8-1/8" HB	QUEENSLAND DRIVE STA. 9+88.12
27	8-1/8" HB	QUEENSLAND DRIVE STA. 10+02.25
28	8"x8" T & V	QUEENSLAND DRIVE STA. 11+63.68
29	8-1/8" HB	PAINTED SUNSET DRIVE STA. 2+16.27
30	8-1/8" HB	PAINTED SUNSET DRIVE STA. 2+64.67
31	8-1/16" HB	PAINTED SUNSET DRIVE STA. 2+41.51
32	8-1/16" HB	PAINTED SUNSET DRIVE STA. 3+85.52
33	8-1/16" HB	PAINTED SUNSET DRIVE STA. 4+18.14
34	FIRE HYDRANT, 8" X 6" FHT	PAINTED SUNSET DRIVE STA. 5+21.74
35	8" X 4" T & 4" V	PAINTED SUNSET DRIVE STA. 5+30.27
36	8" CAP & BUTTRESS	ROCKHAMPTON ROAD STA. 20+45.60

THIS PLAN IS A REPLACEMENT OF THE ORIGINAL PLAN SHEET. ALL BASE INFORMATION HAS BEEN TAKEN FROM THE ORIGINAL PLANS PREPARED BY AB CONSULTANTS, INC. THIS REPLACEMENT WAS REQUIRED DUE TO THE FOLLOWING CONDITIONS:  
 -THE PROPOSED SEWER MAINS WERE CONVERTED FROM PRIVATE TO PUBLIC.  
 -THE PROJECT WAS CONVERTED FROM CONDOMINIUMS TO FEE SIMPLE LOTS REQUIRING THE RELOCATION OF SEVERAL WHC'S AND SHC'S (SEE THIS SHEET FOR CHART OF UTILITY RELOCATIONS).

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*Silva C. Gorman*  
 CHIEF, BUREAU OF UTILITIES

12/2/09  
 DATE

DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND

*John P. ...*  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

12/2/09  
 DATE

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32225, EXPIRATION DATE: JUNE 20, 2011

**Sill · Adcock & Associates · LLC**  
 Engineers · Surveyors · Planners  
 3300 North Ridge Road, Suite 160  
 Ellicott City, Maryland 21043  
 Phone: 443.325.7682 Fax: 443.325.7685  
 Email: info@saalland.com

DESIGNED BY: PS  
 DRAWN BY: ZH  
 CHECKED BY: PS  
 DATE: NOV. 10, 2009

NO.	DESCRIPTION	DATE
1	AS BUILT - KCT	6/17/09

**WATER AND SEWER PLAN**

600' SCALE MAP NO. 17 BLOCK NO. 8 & 14

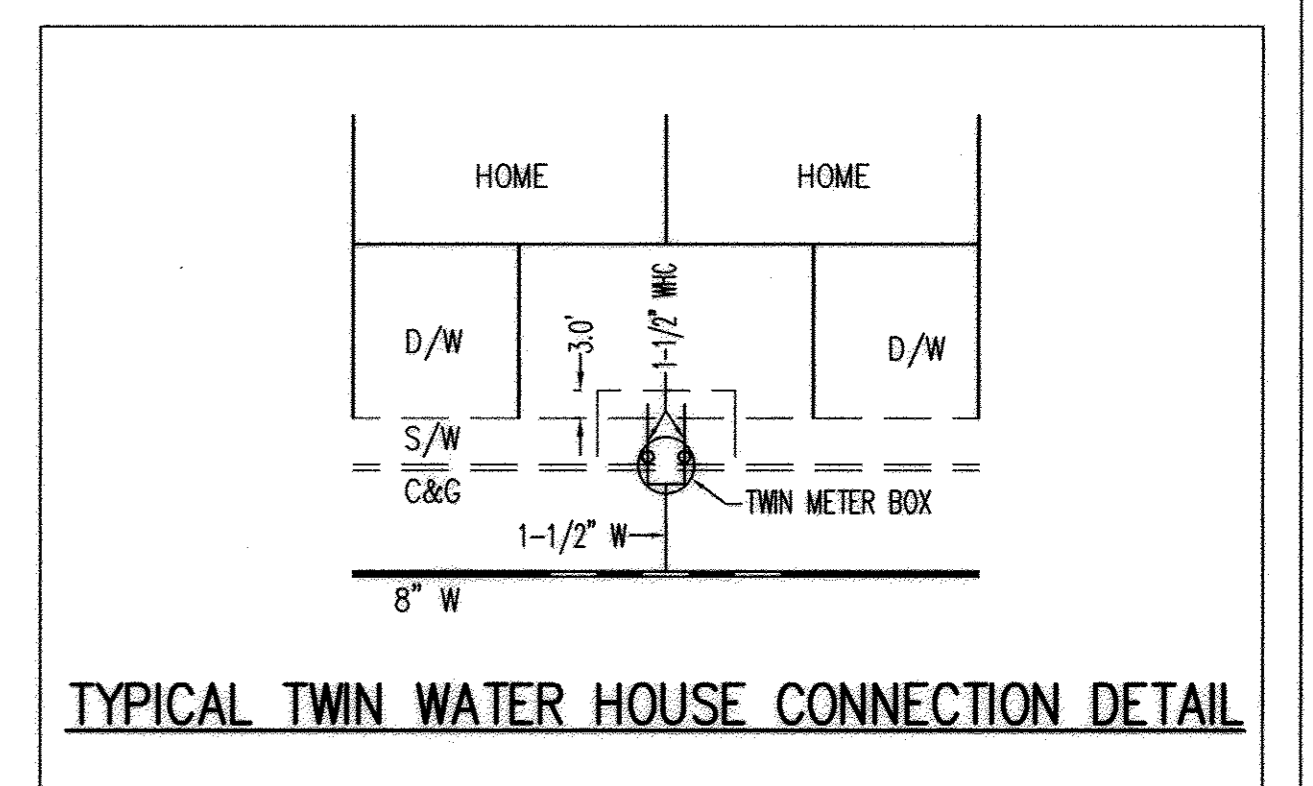
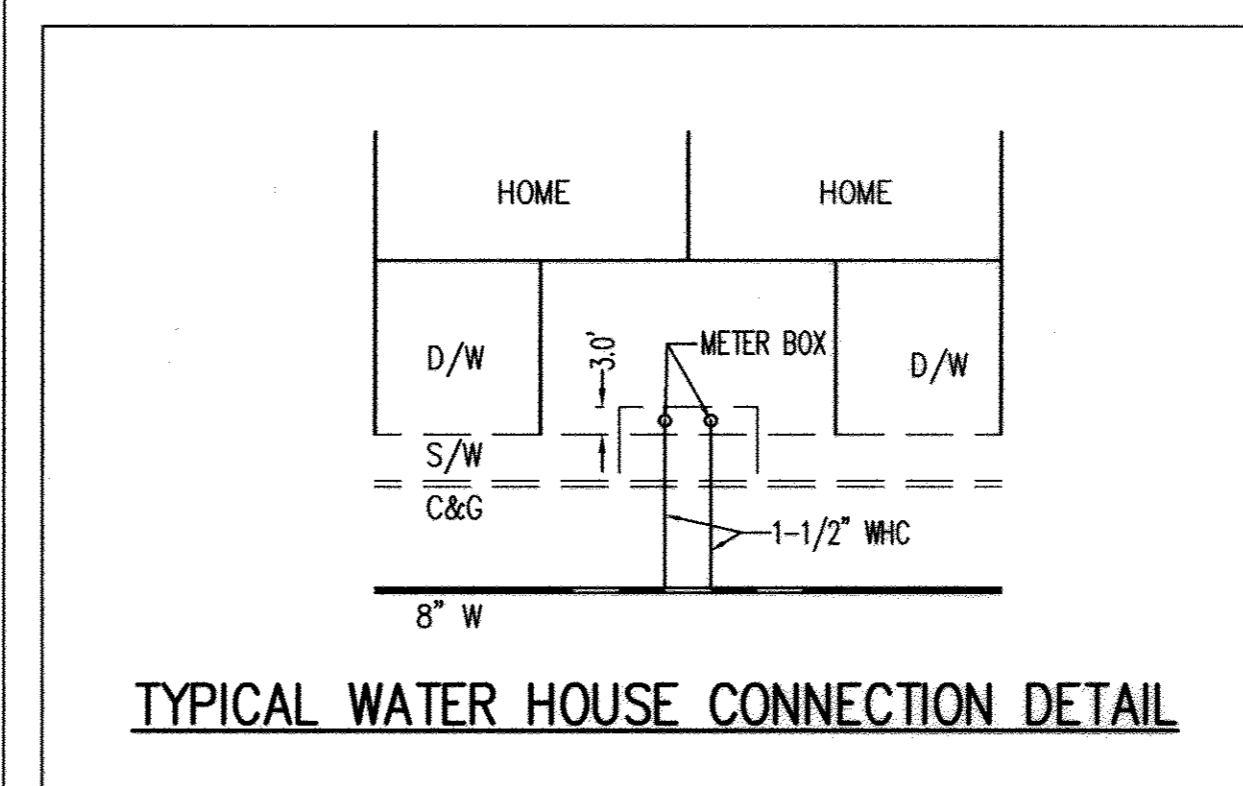
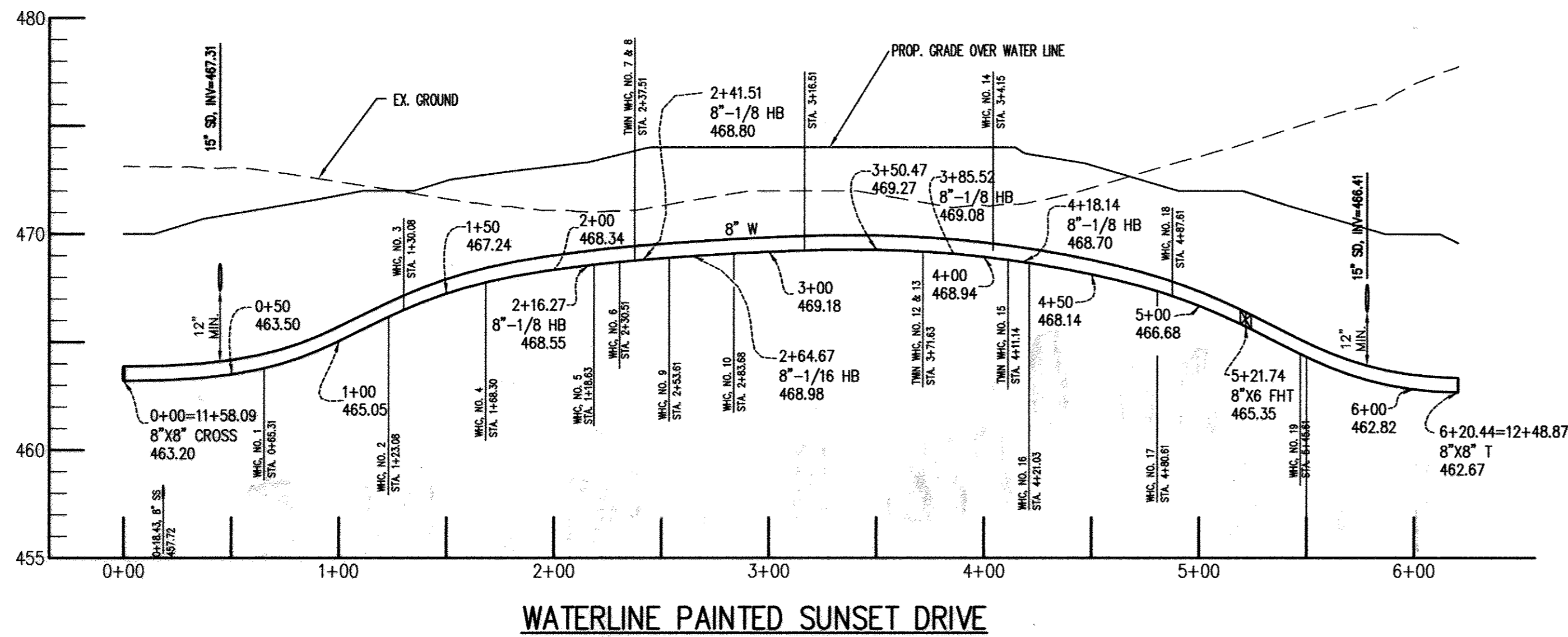
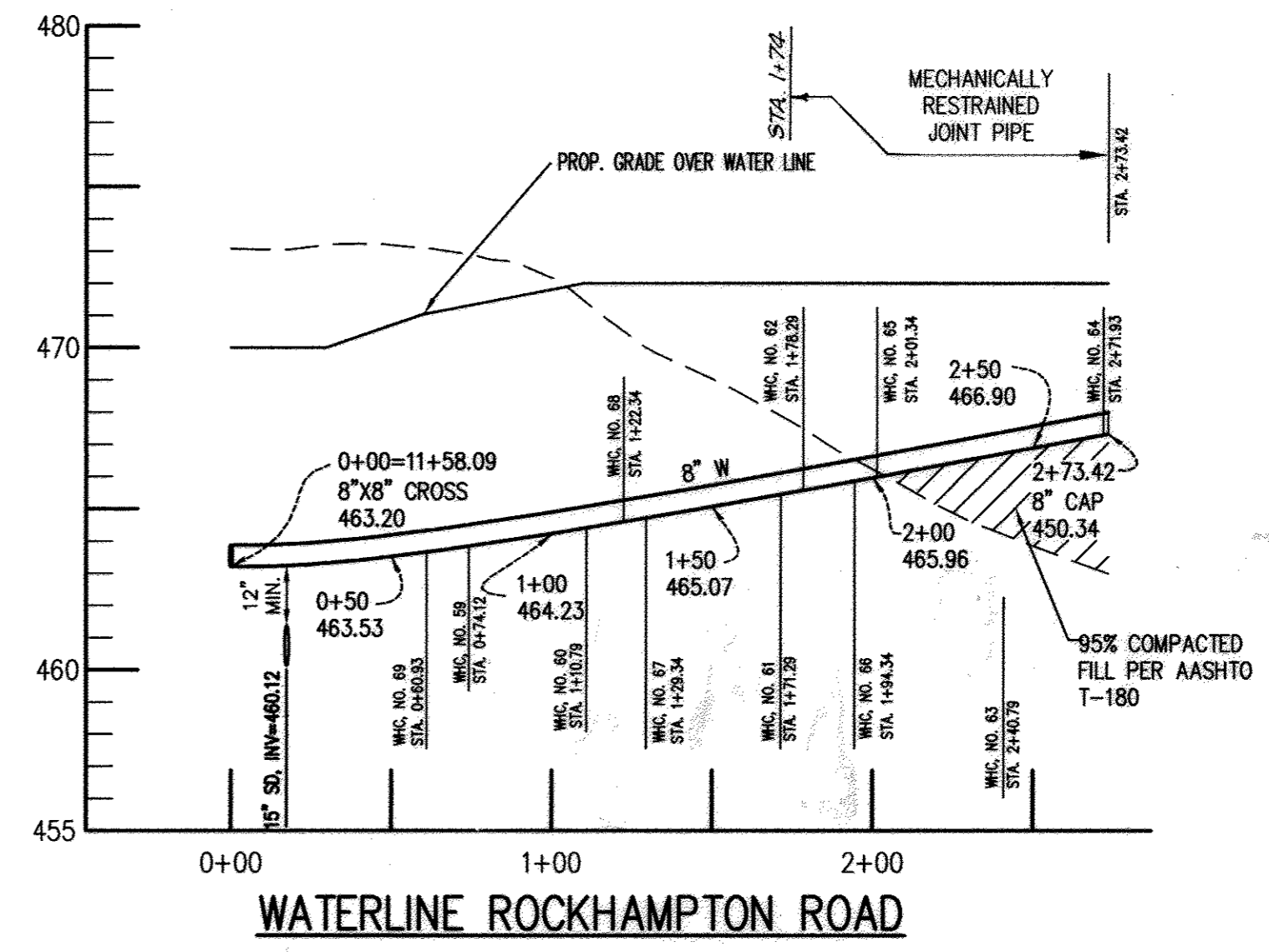
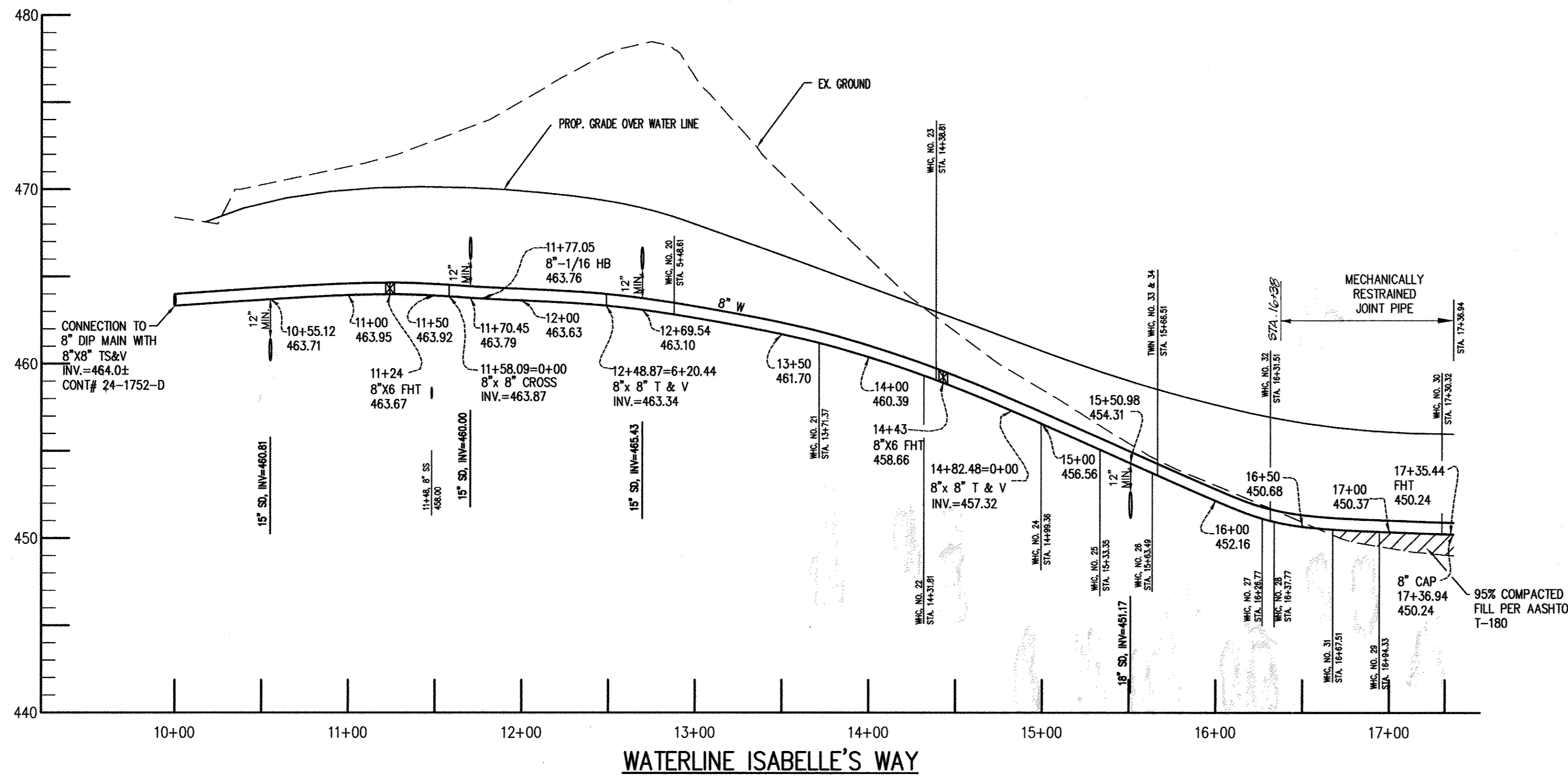
**ENCLAVE AT ELLICOTT STATION**  
 LOTS 1-69, OPEN SPACE LOT 70 AND PARCEL 'A'  
 A RESUBDIVISION OF LOT 1 OF "HARBIN PROPERTY, MINOR SUBDIVISION"  
 PLAT NO'S. 18317 THROUGH 18319  
 TAX MAP 17 GRIDS 8 & 14 PARCELS 28 & 27  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-4323-D

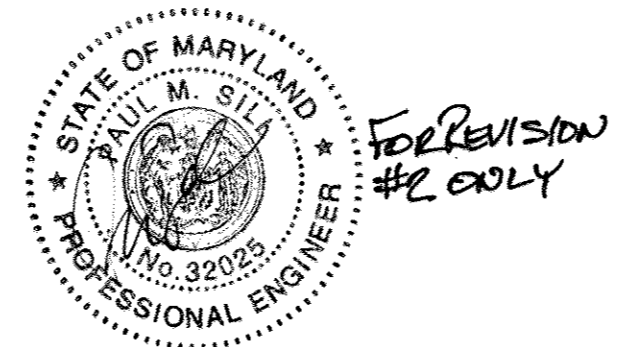
SCALE:  
 AS SHOWN

SHEET NO.  
 2 OF 7





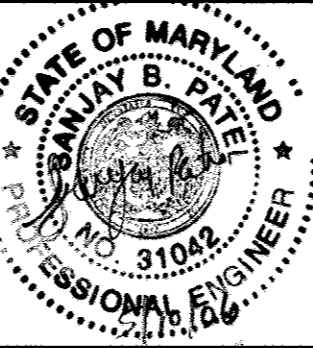
NOTE:  
 UNITS NO. 7(A)&8(A), 12(A)&13(A), 33(A)&34(A), 49(A)&50(A), 51(A)&52(A) HAVE TWIN WATER HOUSE CONNECTION  
 AND REST OF UNITS HAVE SINGLE WATER HOUSE CONNECTION



DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Robert Bumpas 5-18-06  
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND  
 [Signature]  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

AB CONSULTANTS, INC.  
 9450 ANNAPOLIS ROAD  
 LANHAM, MARYLAND 20706  
 PHONE: (301) 306-3091  
 FAX: (301) 306-3092  
 CONTACT: SANJAY PATEL PHONE: 301-306-3091 x21

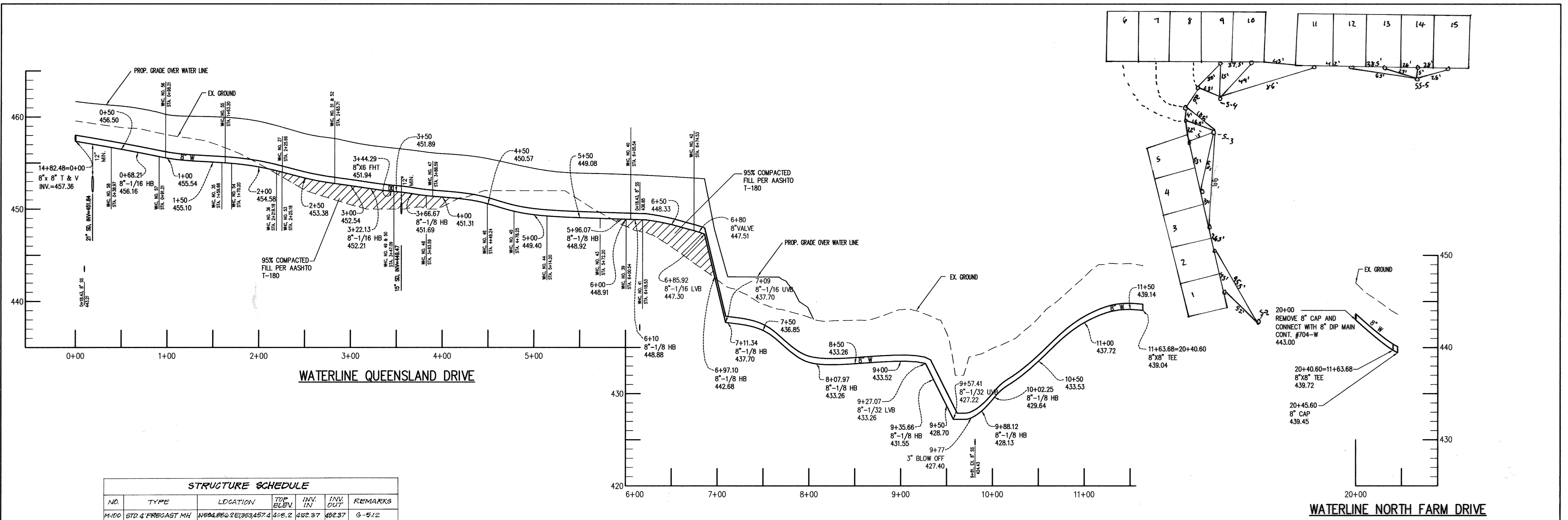


DES:	HRP			
DRN:	SRP/HRP			
CHK:	SBP	SAA 2 REMOVE SHC'S FROM PROFILES	11/16/08	
		KCI 1 ASBUILT DATA	8/20/09	
DATE:	05-12-06	BY	NO.	REVISIONS

WATER PROFILES  
 50' SCALE MAP NO. 17  
 BLOCK NO. 8 & 14

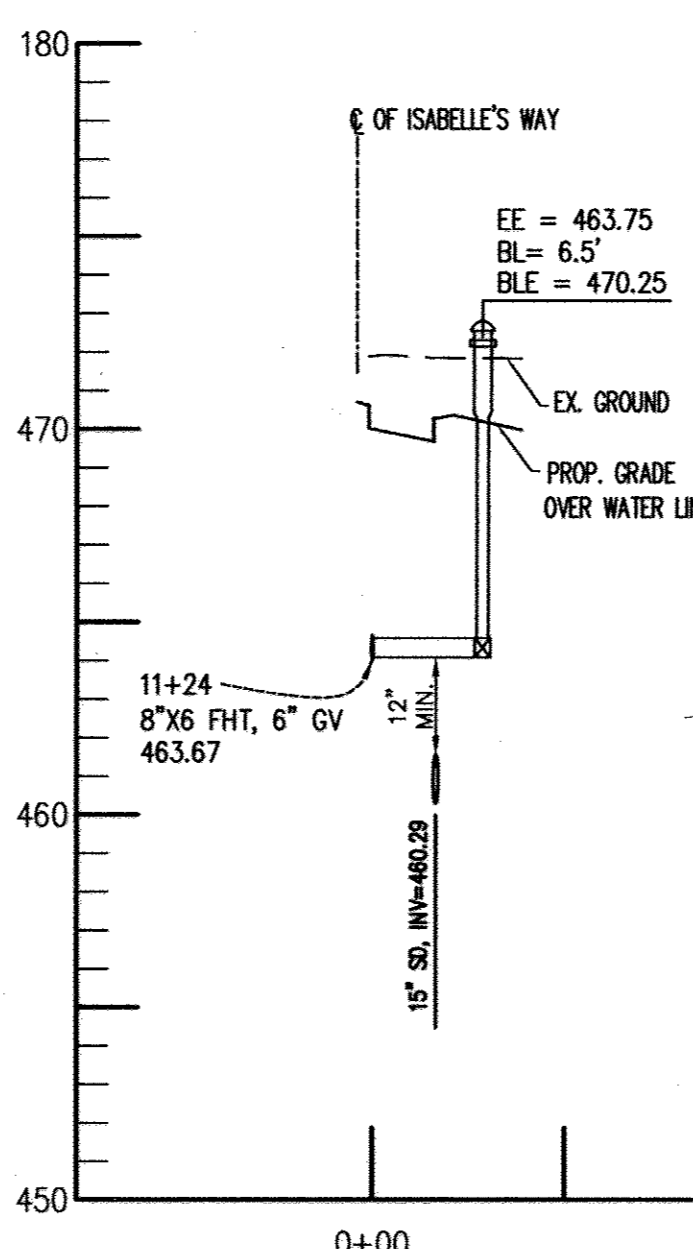
ENCLAVE AT ELLICOTT STATION  
 AGE-RESTRICTED ADULT HOUSING COMMUNITY  
 LOT 1 OF THE HARBIN PROPERTY MINOR SUBDIVISION  
 UNITS 1 THRU 89 AND COMMUNITY CENTER  
 2nd ELECTION DISTRICT, HOWARD COUNTY, MARYLAND  
 PARCELS 26 & 27  
 CONTRACT NO. : 24-4323-D

SCALE:  
 1"=50' (HOR.)  
 1"=5' (VERT.)  
 SHEET NO.  
 4 of 7

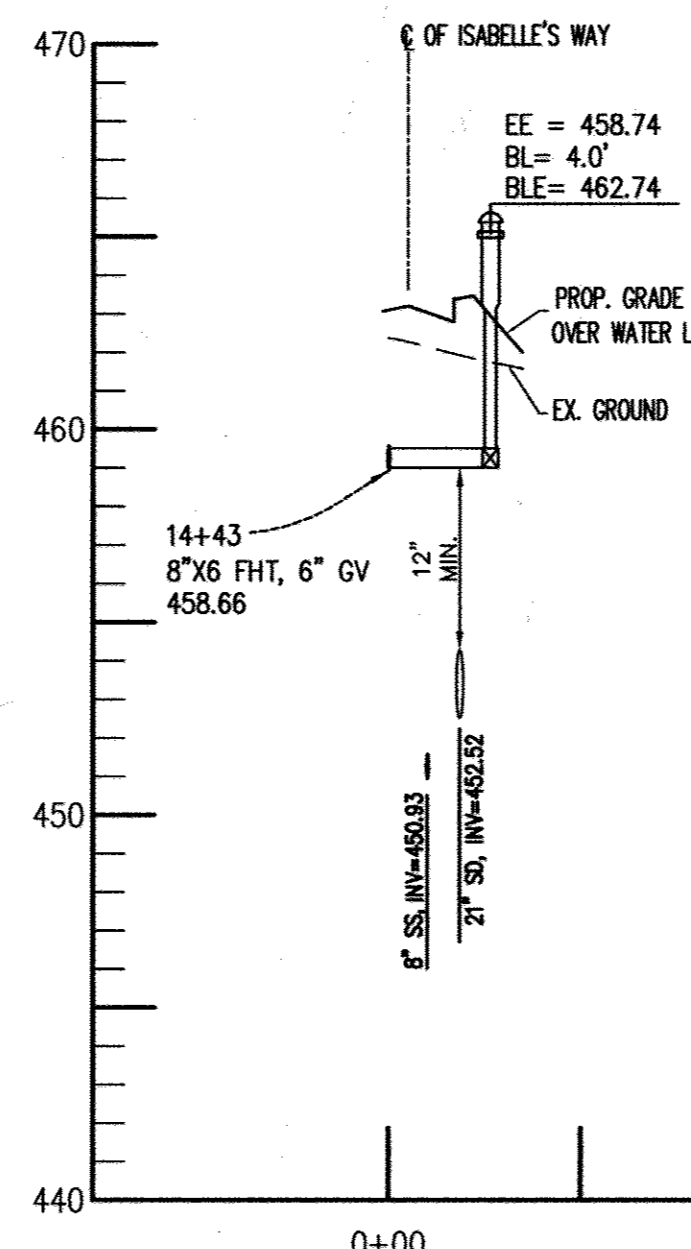


STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	TOP ELEV.	INV. IN	INV. OUT	REMARKS
M-100	STD. 4' PRECAST MH	N504,880.2 E1,353,457.4	448.2	452.37	452.37	G-5.12
M-102	"	N504,887.7 E1,353,447	448.4	456.40	456.40	G-5.12
M-200	"	N505,430.0 E1,353,682	434.00	426.21	426.23	G-5.12
M-201	"	N505,612.1 E1,352,731	430.06	426.80	426.73	G-5.12
S-2	"	N504,896.6 E1,353,320	470.62	456.73	456.70	G-5.12
S-3	"	N504,677.7 E1,353,313	473.78	460.46	460.35	G-5.12
S-4	"	N504,660.0 E1,353,282	471.28	460.83	460.73	G-5.12
S-5	"	N504,748.6 E1,353,113	473.55	-	462.55	G-5.12
S-6	"	N504,806.0 E1,353,209	471.29	459.08	457.08	G-5.12
S-7	"	N504,938.8 E1,353,217	462.82	458.63	458.73	G-5.12
S-8	"	N504,786.6 E1,353,122	473.25	-	460.84	G-5.12
S-9	"	N505,104.1 E1,353,342	472.88	-	463.90	G-5.12
S-10	"	N505,025.1 E1,353,134	465.87	-	452.97	G-5.12
S-11	STD. 4' DROP MH	N505,076.1 E1,353,052	462.22	448.20(8)	443.10	G-1.32
S-12	STD. 4' PRECAST MH	N505,211.1 E1,352,830	455.83	-	444.41	G-5.12
S-13	"	N505,128.0 E1,353,085	461.42	442.67	442.57	G-5.12
S-14	"	N505,401.1 E1,353,127	457.24	439.50	439.50	G-5.12
S-15	"	N505,439.9 E1,353,105	455.49	439.04	438.94	G-5.12
S-16	"	N505,580.0 E1,352,883	453.40	437.18(8)	436.94	G-5.12
S-17	"	N505,490.0 E1,352,850	452.84	-	437.32	G-5.12
S-18	"	N505,621.1 E1,352,820	450.71	436.50	436.40	G-5.12
S-19	"	N505,658.0 E1,352,843	441.88	431.60	431.50	G-5.12

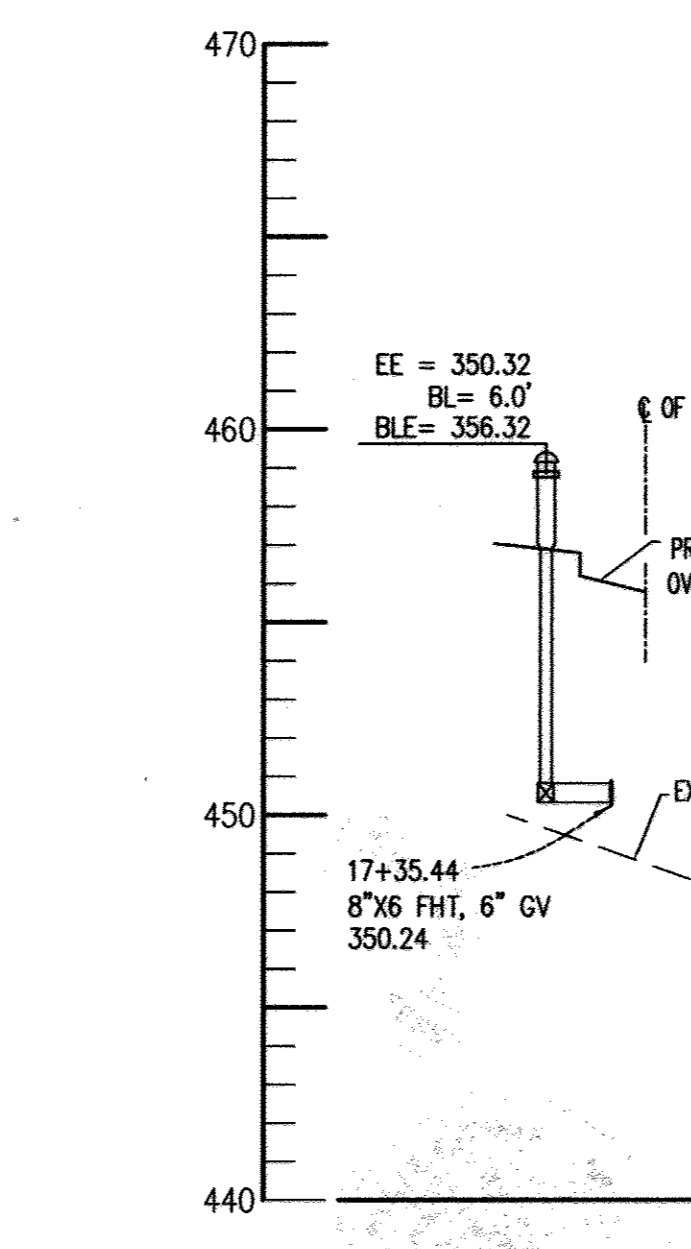
NOTES:  
 1. TOP ELEVATIONS FOR PRECAST MANHOLES ARE TO THE CENTER TOP OF MANHOLE COVER  
 2. TOP SLOPE OF STRUCTURES TO CONFORM TO SLOPE OF PAVING OR GROUND  
 3. LOCATION COORDINATES ARE CENTER OF STRUCTURE FOR MANHOLES  
 4. THERE IS NO STRUCTURE S-1.



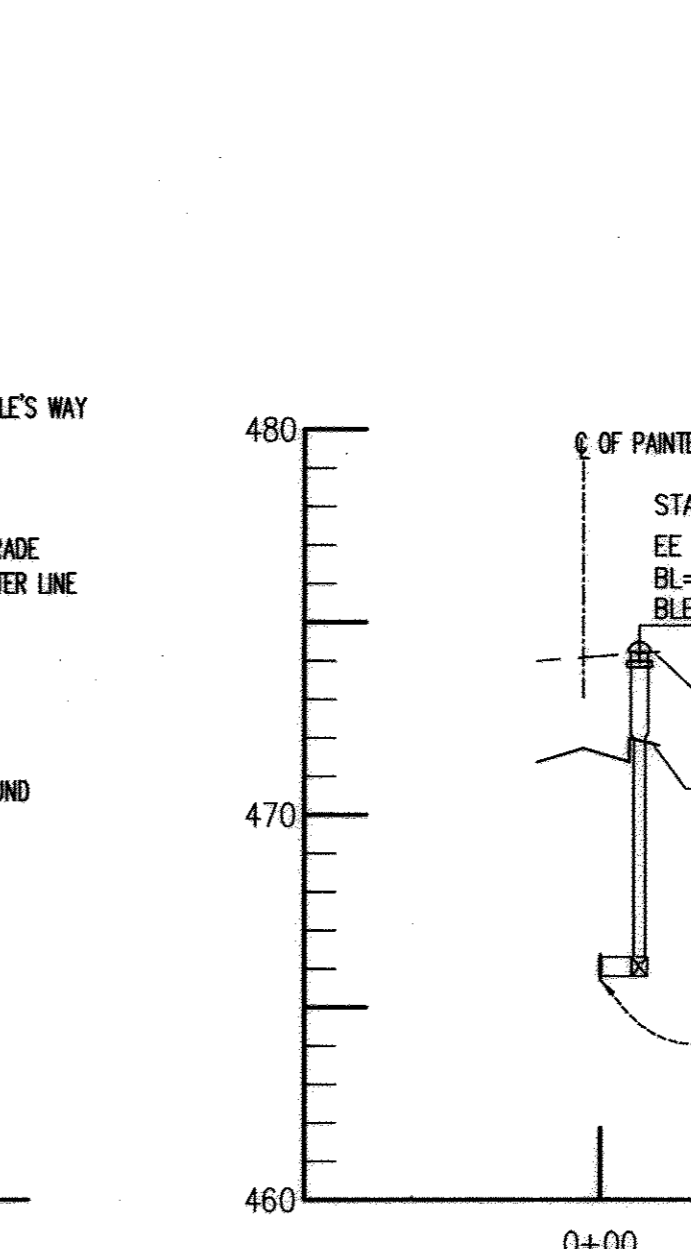
FIRE HYDRANT @ STA. 11+24 ISABELLE'S WAY



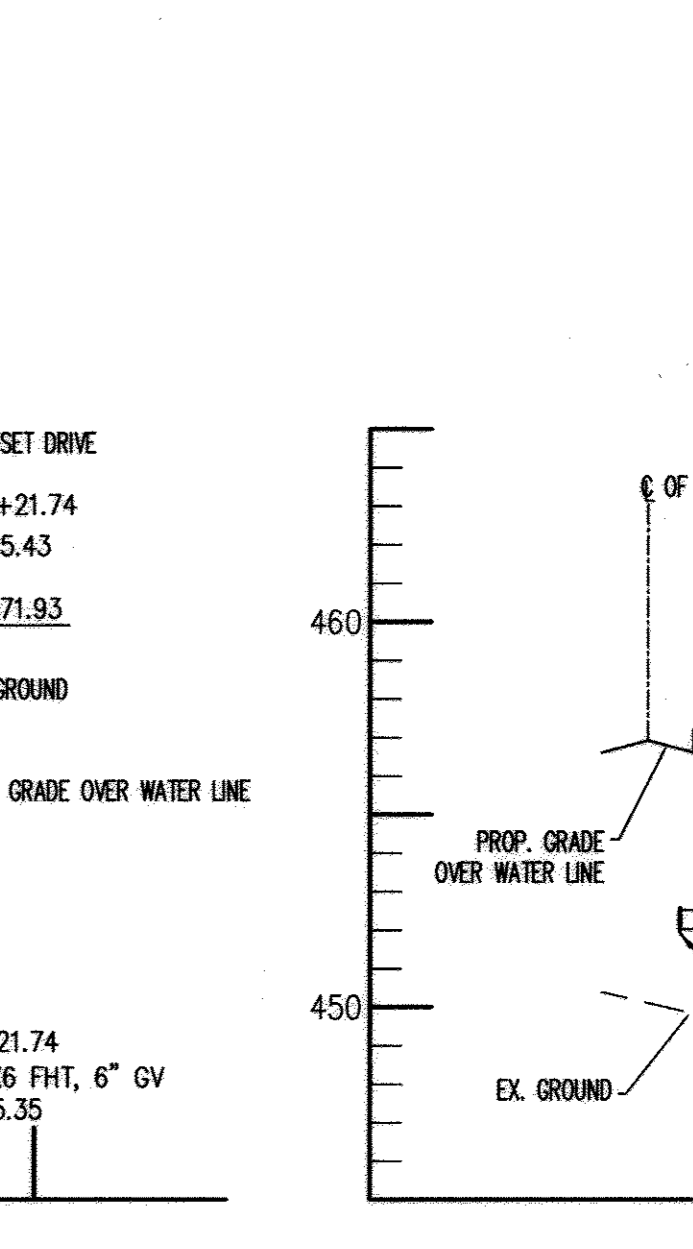
FIRE HYDRANT @ STA. 14+23 ISABELLE'S WAY



FIRE HYDRANT @ STA. 17+35.44 ISABELLE'S WAY



FIRE HYDRANT @ STA. 5+21.74 PAINTED SUNSET DRIVE



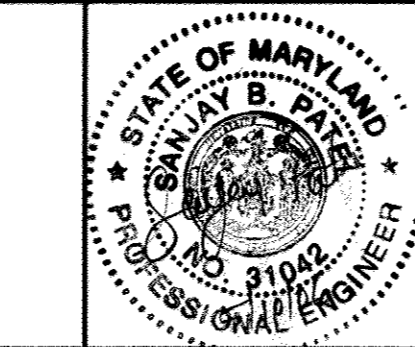
FIRE HYDRANT @ STA. 3+44.29 QUEENSLAND DRIVE

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 R. J. B... 5-18-04  
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND  
 DATE  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION



AB CONSULTANTS, INC.  
 9450 ANNAPOLIS ROAD  
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 CONTACT: SANJAY PATEL PHONE: 301-306-3091 x21

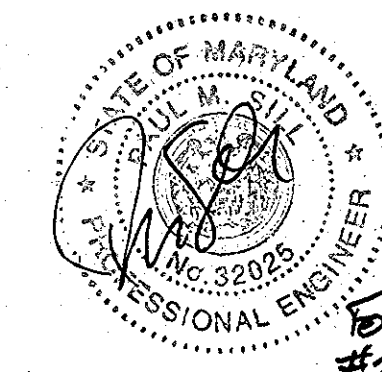
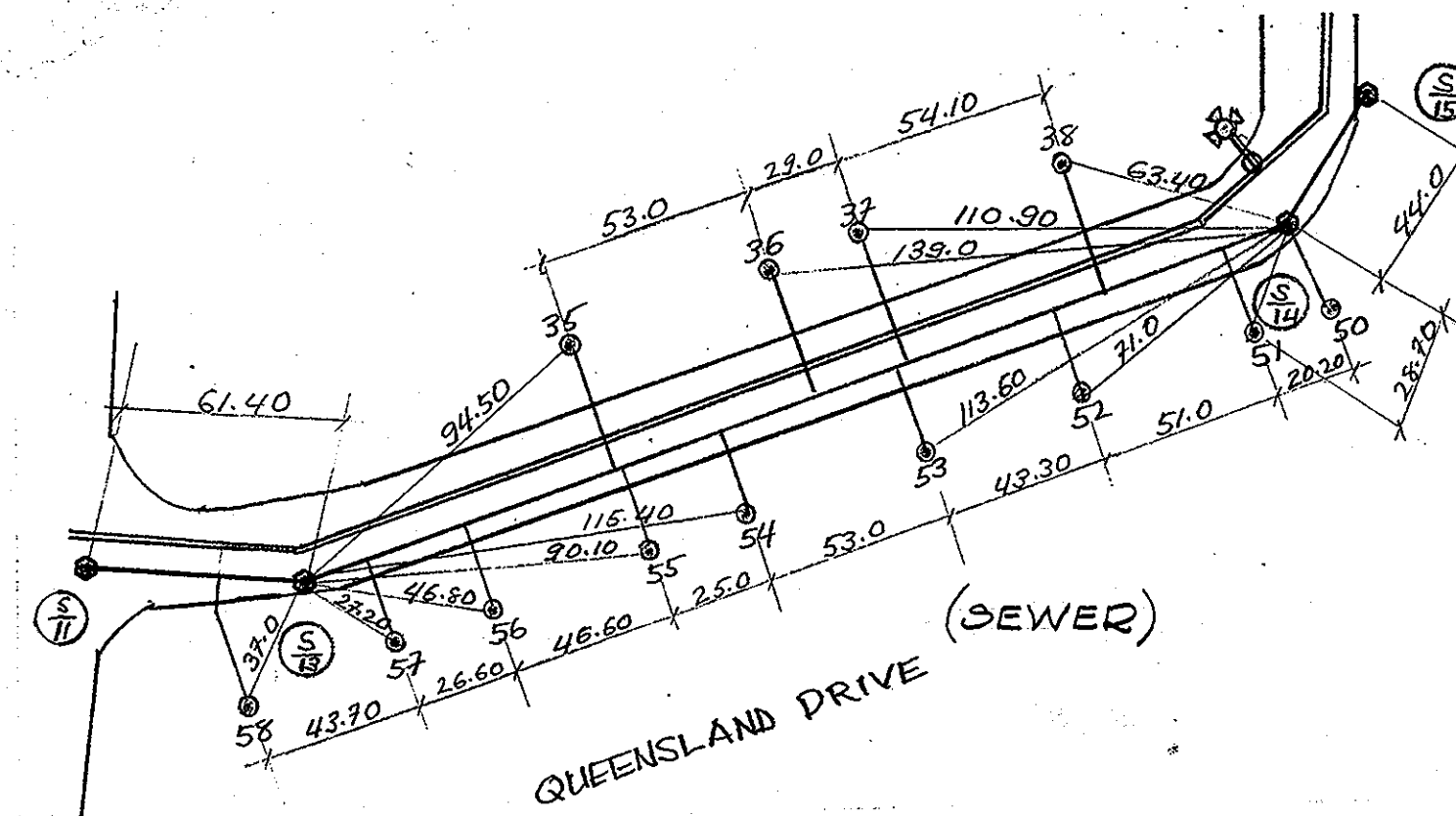
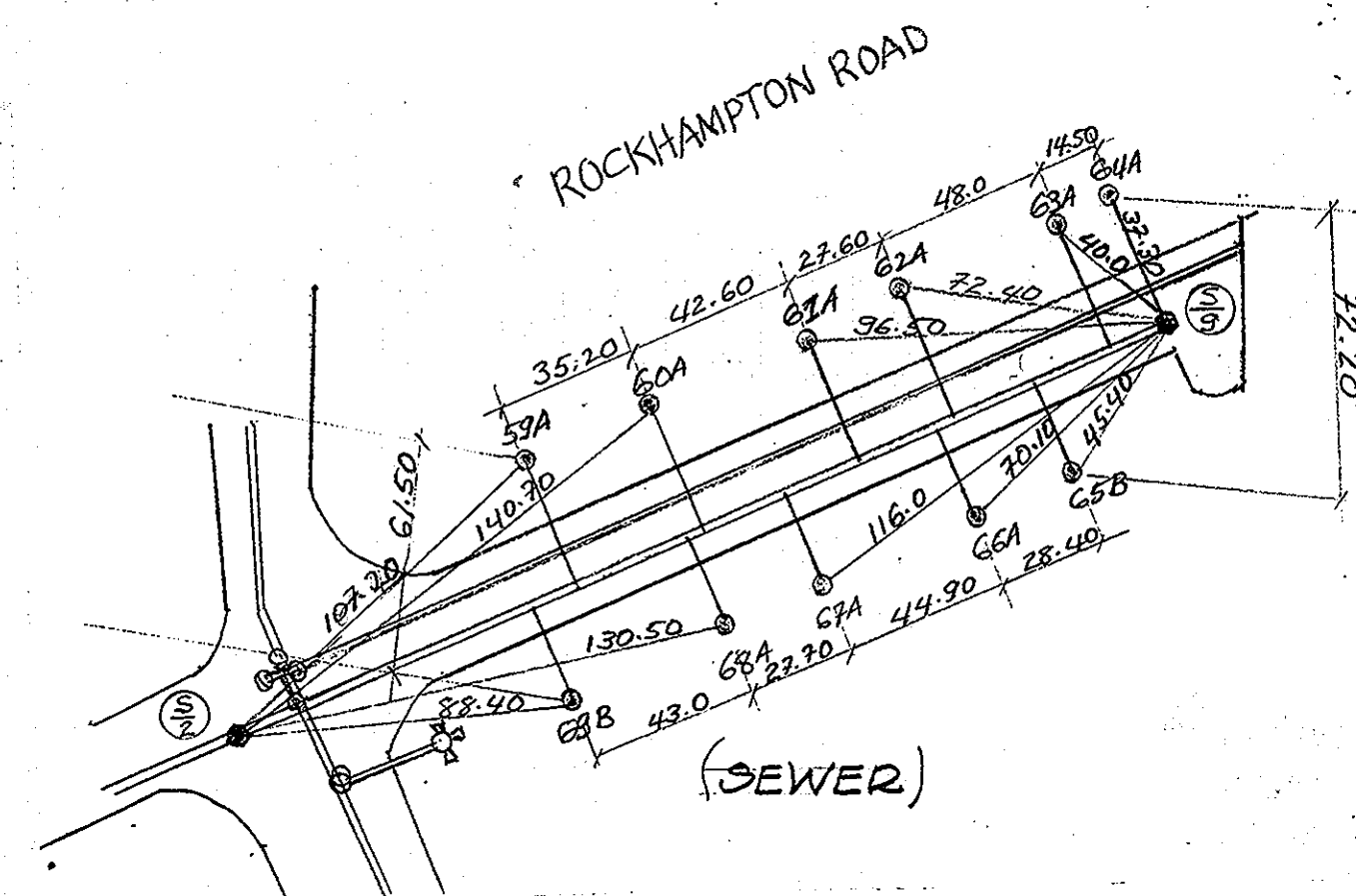
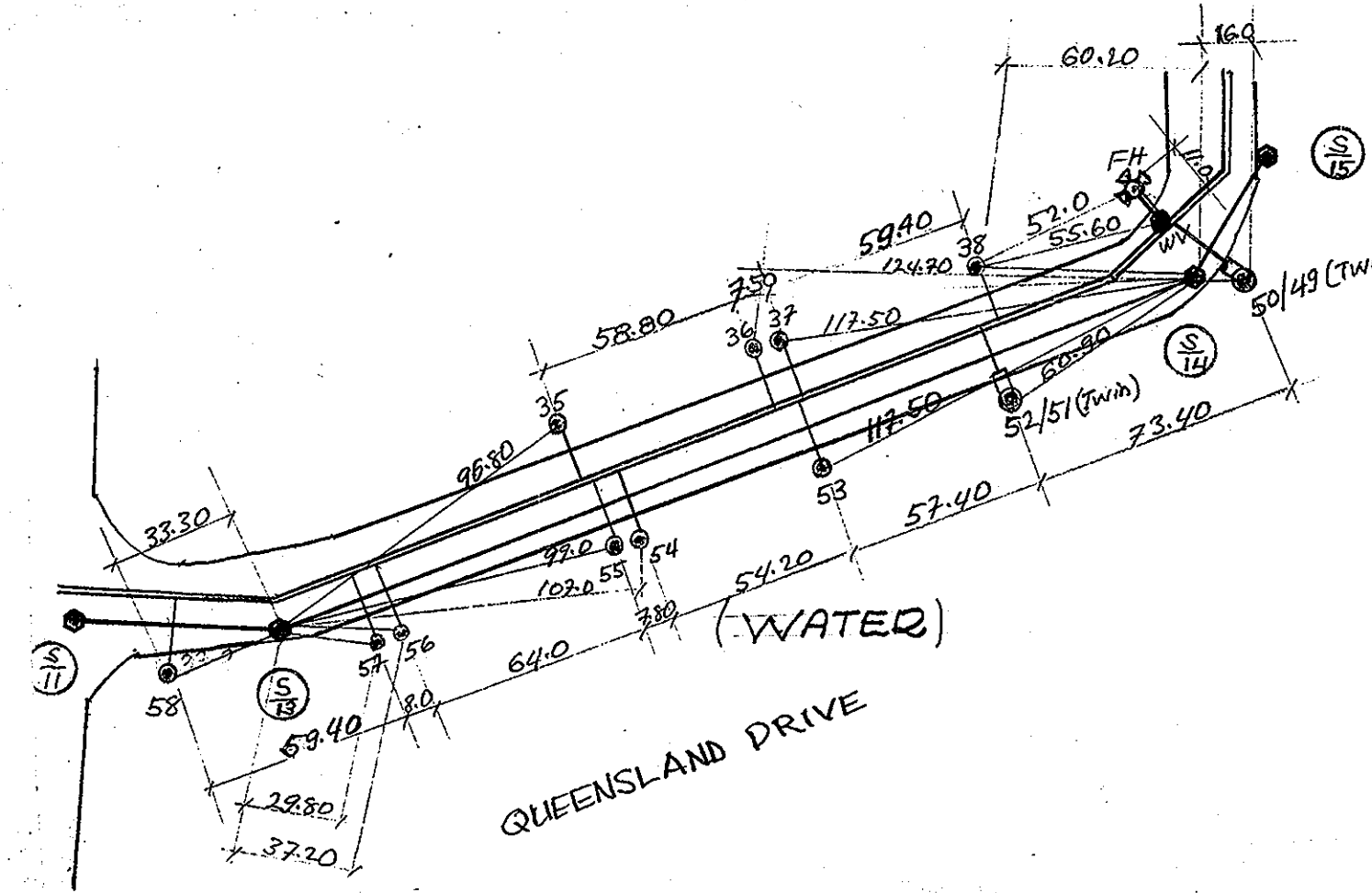
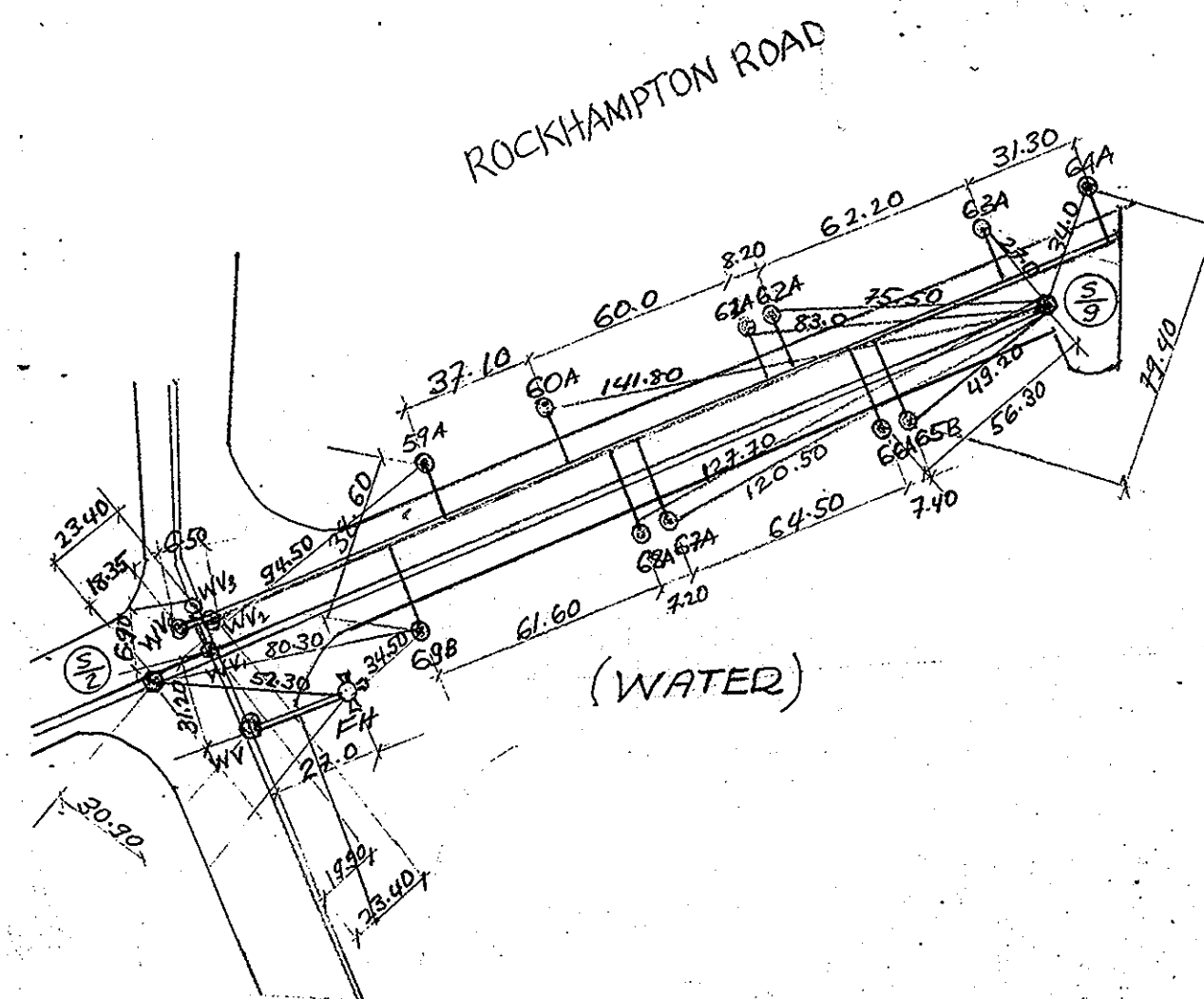
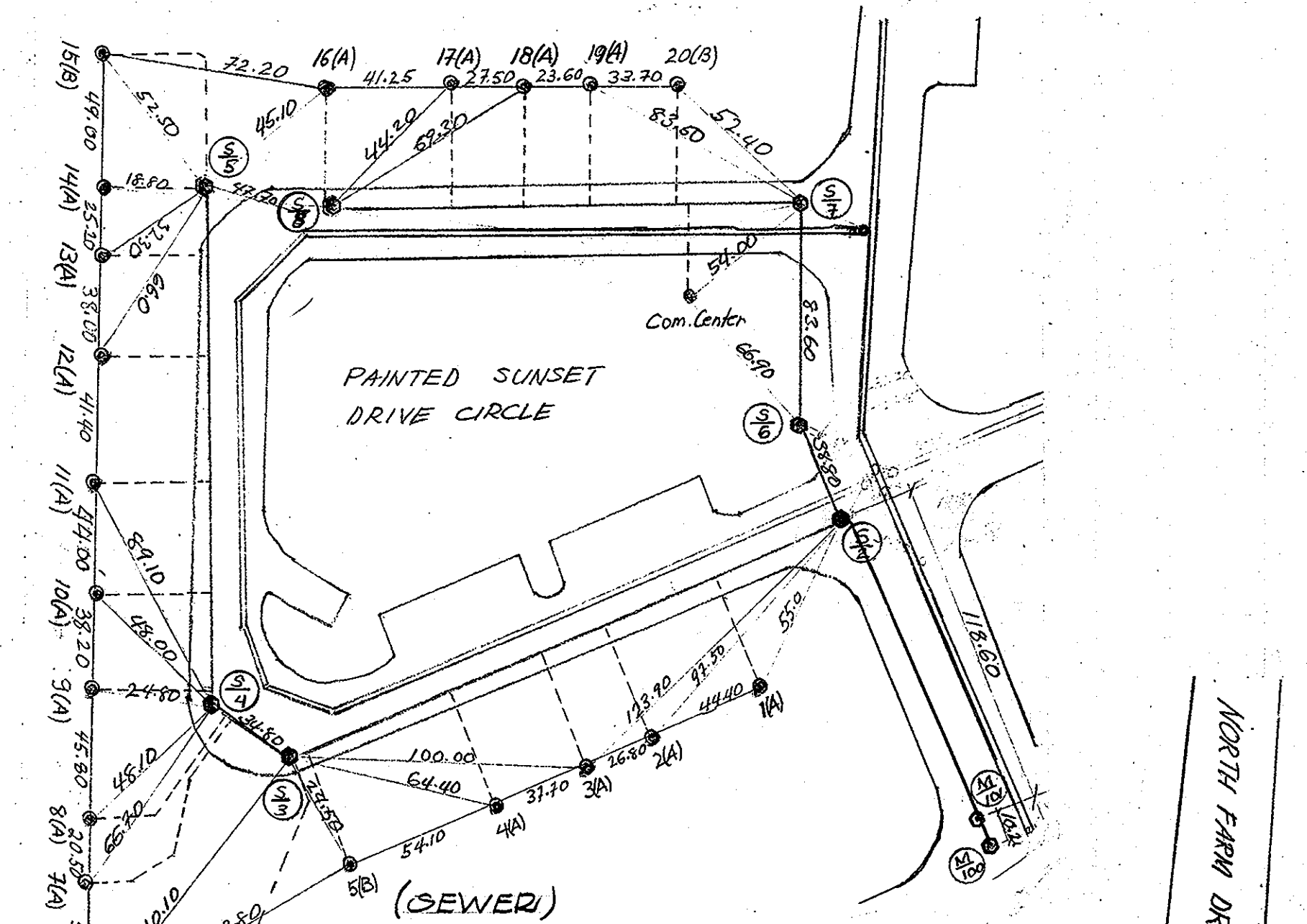
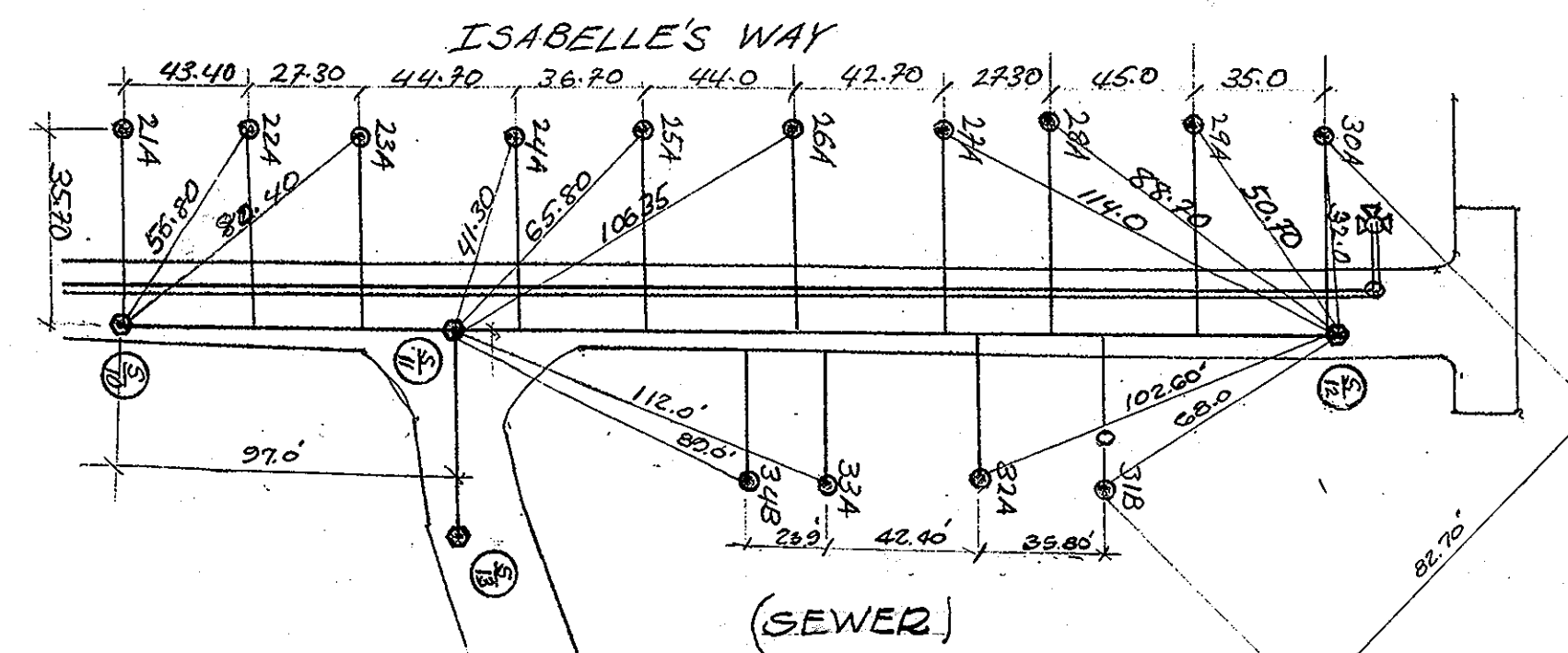
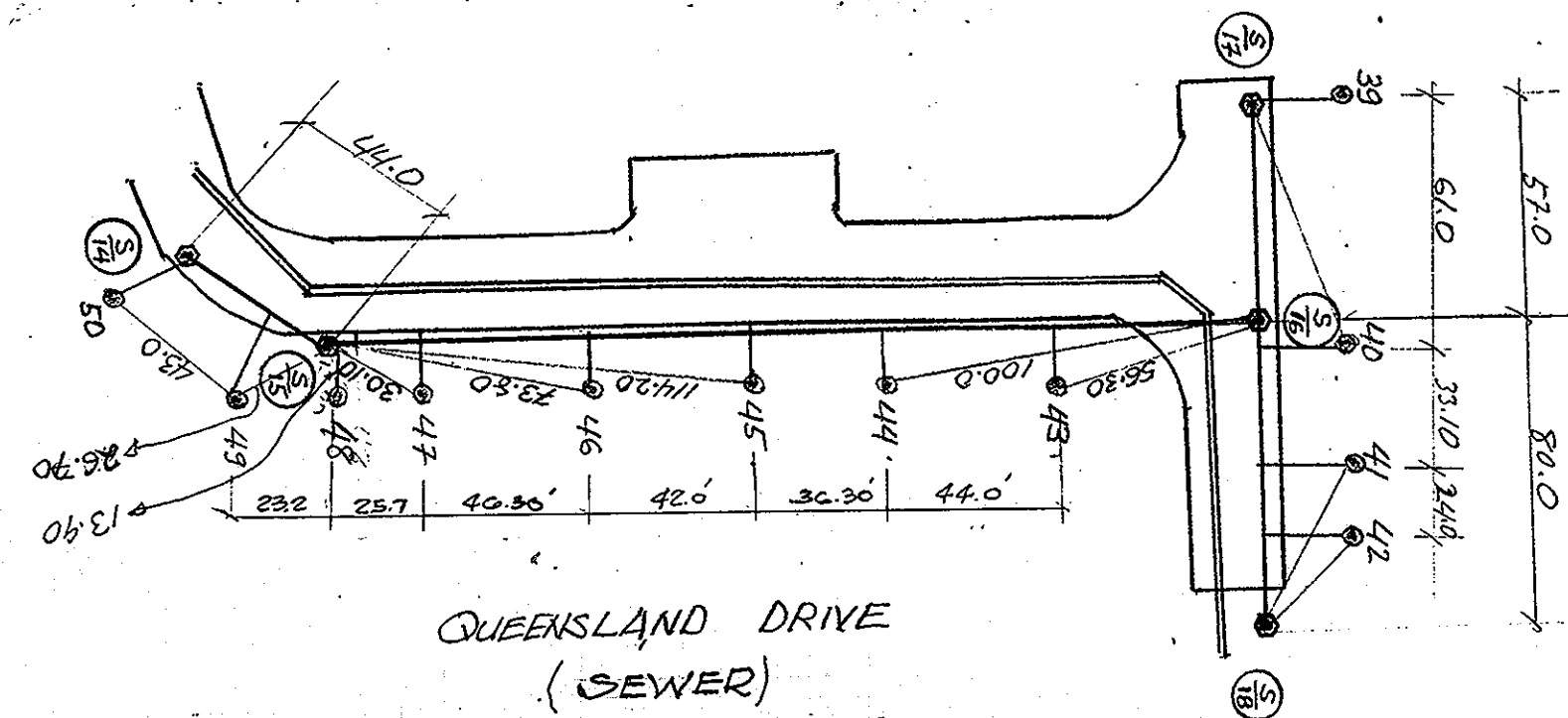
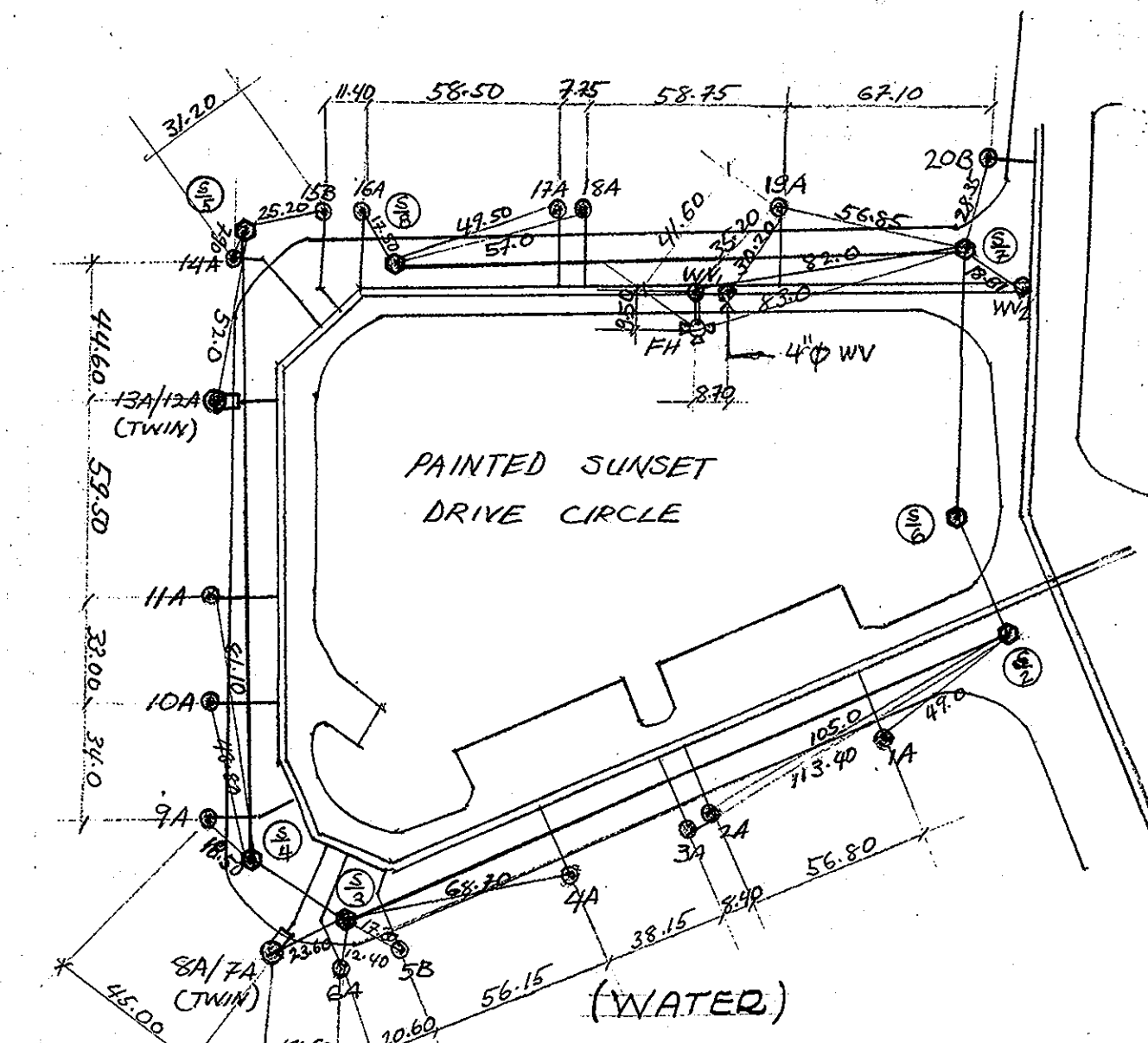
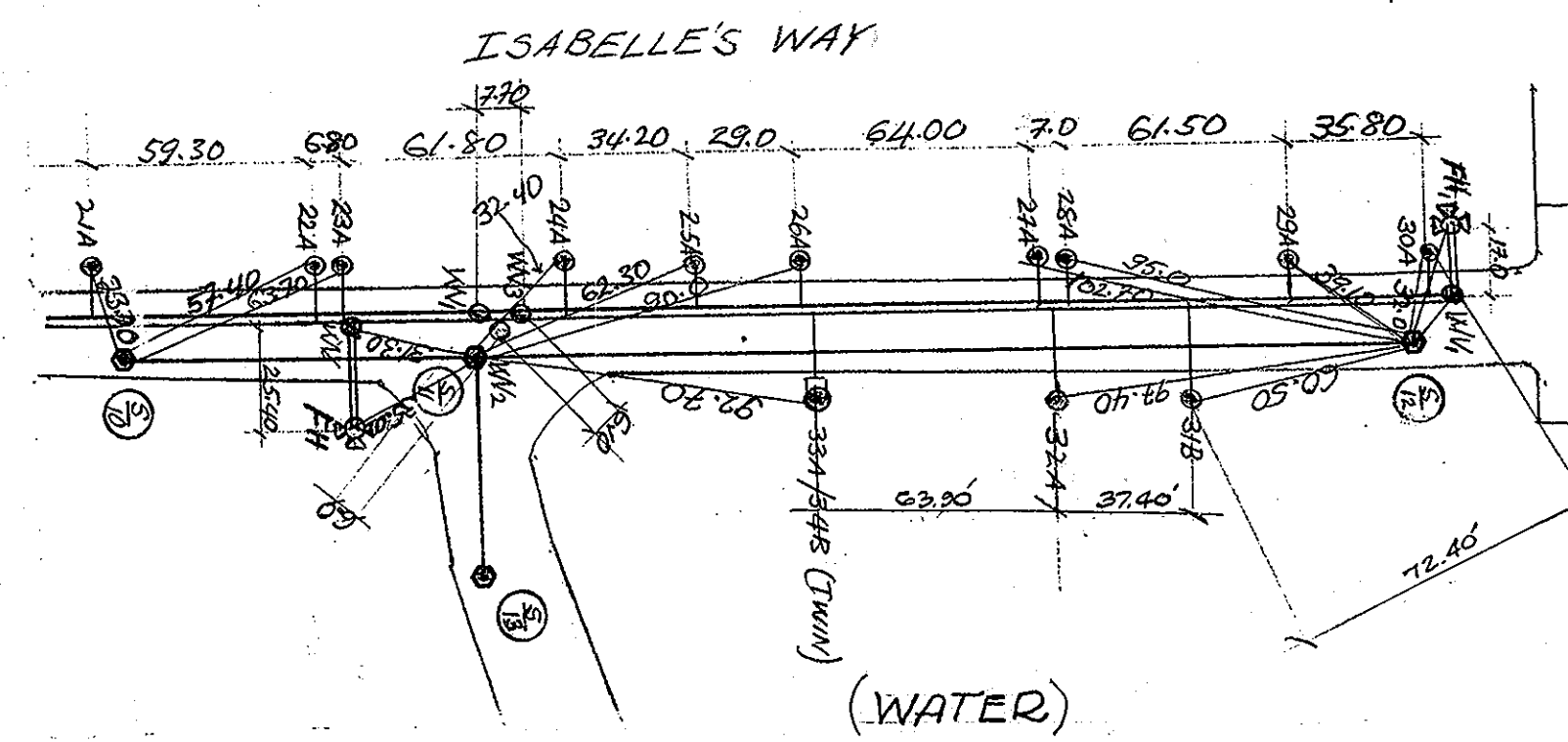
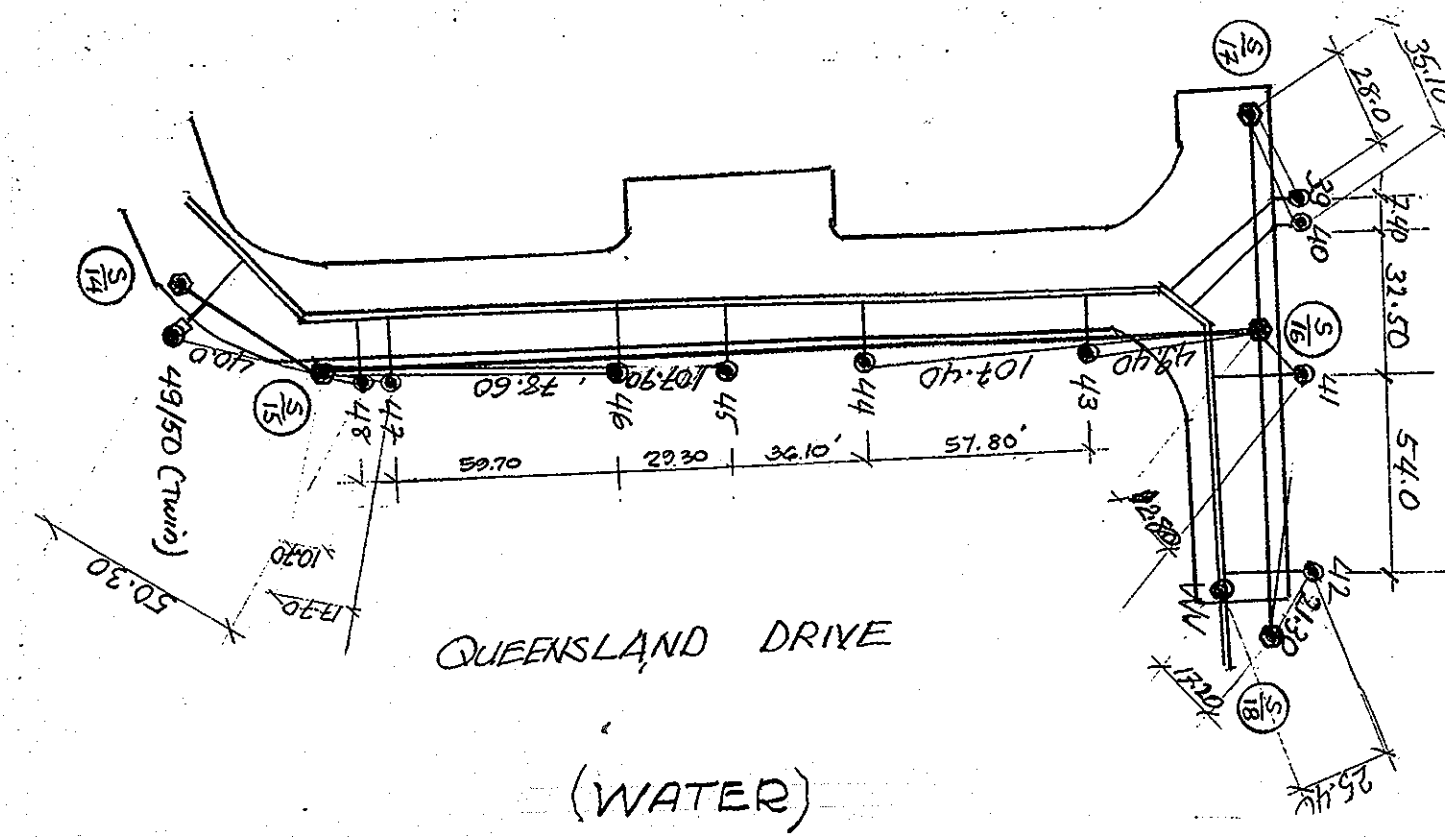


DES. : HRP			
DRN. : SRP/HRP			
CHK. : SBP	KCI 3 AS BUILT	6/1/16	
DATE: 05-12-06	SAA 2 MOVE 2 SEWER PROFILES TO SHEET 7	11-12-09	
	KCI 1 AS BUILT DATA SHOWN	8/1/16	
	BY NO.	REVISIONS	DATE

WATER PROFILES  
 50' SCALE MAP NO. 17  
 BLOCK NO. 8 & 14

ENCLAVE AT ELLICOTT STATION  
 AGE-RESTRICTED ADULT HOUSING COMMUNITY  
 LOT 1 OF THE HARBIN PROPERTY MINOR SUBDIVISION  
 UNITS 1 THRU 89 AND COMMUNITY CENTER  
 2nd ELECTION DISTRICT, HOWARD COUNTY, MARYLAND  
 PARCELS 26 & 27  
 CONTRACT NO. : 24-4323-D

SCALE:  
 1"=50' (HOR.)  
 1"=5' (VERT.)  
 SHEET NO. 5 OF 7



FOR REVISION #2 ONLY

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

KCI TECHNOLOGIES, INC.

10 NORTH PARK DRIVE  
HUNT VALLEY, MD 21030-1846

DES :			
DRN :	SRP/WRP		
CHK :	SRP	SAA 2	REVISE TITLE & SHEET NUMBER
DATE :	05-12-08	KCI 1	AS-BUILT DATA SHOWN
BY :	NO.	REVISIONS	DATE

WATER AND SEWER  
AS-BUILT DETAILS

ENCLAVE AT ELLICOTT STATION  
AGE-RESTRICTED ADULT HOUSING COMMUNITY  
LOT 1 OF THE BARNUM PROPERTY IMPROVEMENT SUBDIVISION  
UNITS 1 THRU 80 AND COMMUNITY CENTER  
2nd ELECTION DISTRICT, HOWARD COUNTY, MARYLAND  
PARCELS 26 & 27

SCALE:

1"=50'

SHEET NO.

6 OF 7

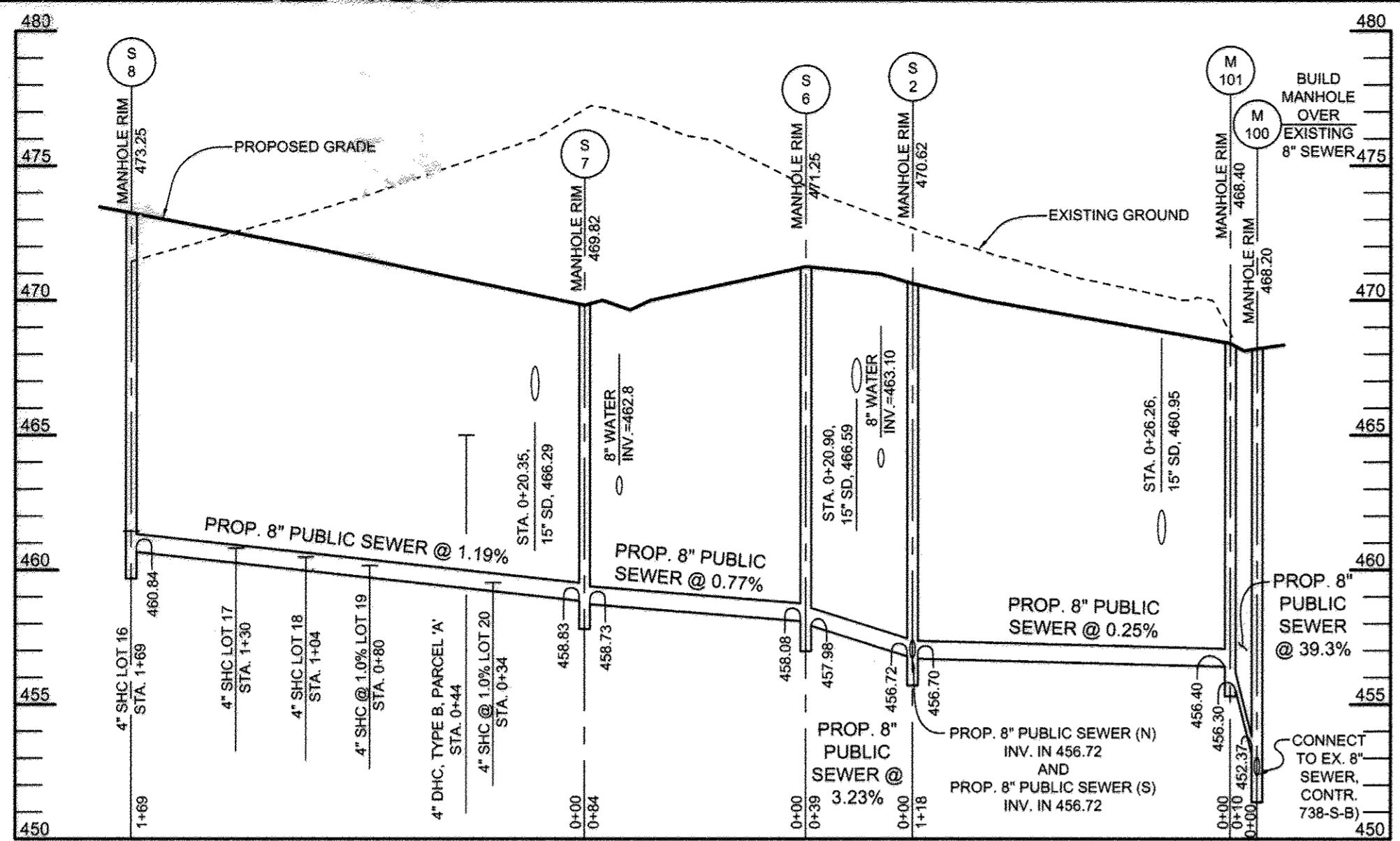
NON-APPLICABLE

NON-APPLICABLE

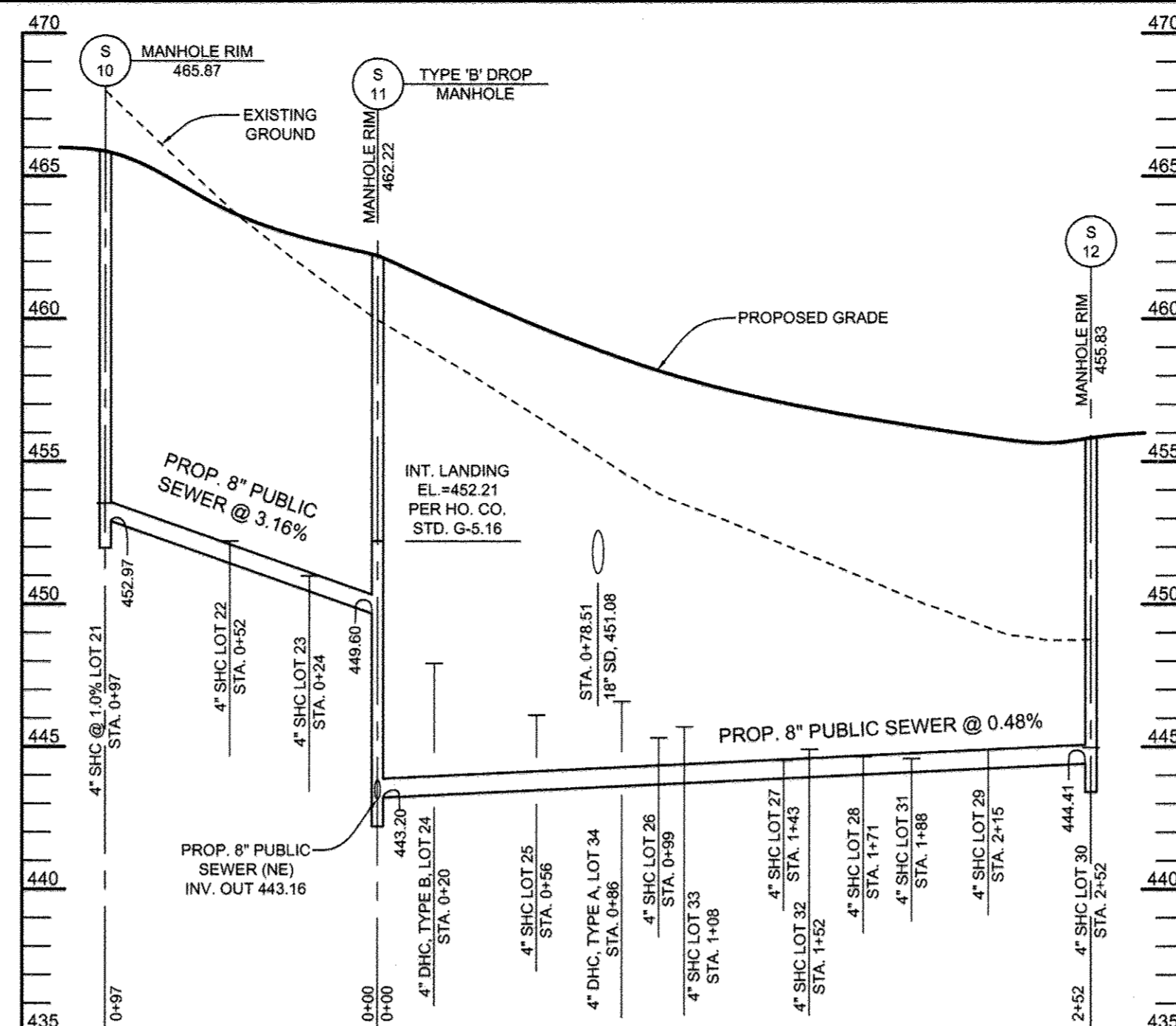
50' SCALE MAP NO. 17

BLOCK NO. 8 & 14

CONTRACT NO. : 24-4323-D



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

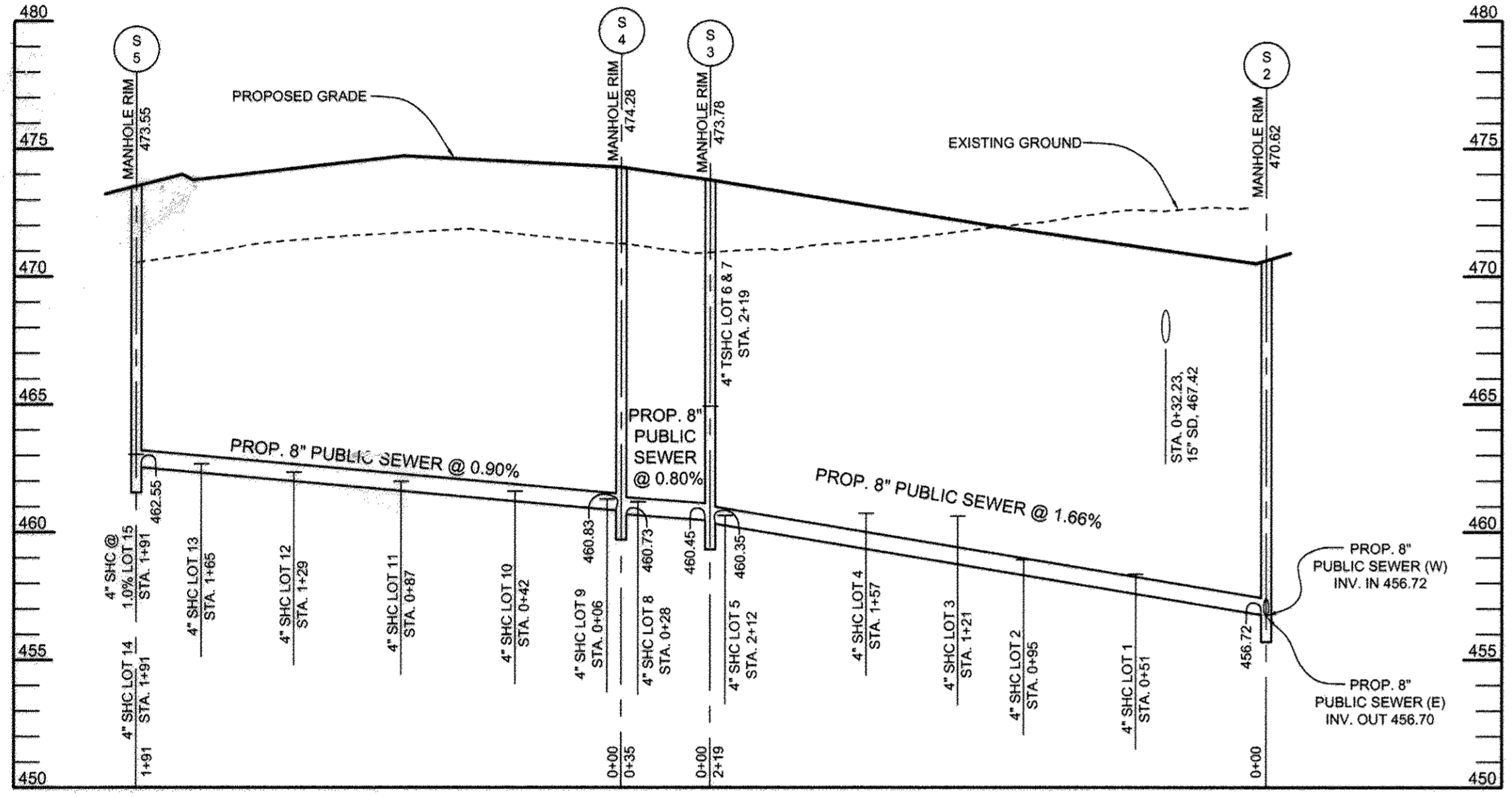


SEWER PROFILES  
SCALE: HORIZ.: 1"=50'  
VERT.: 1"=5'

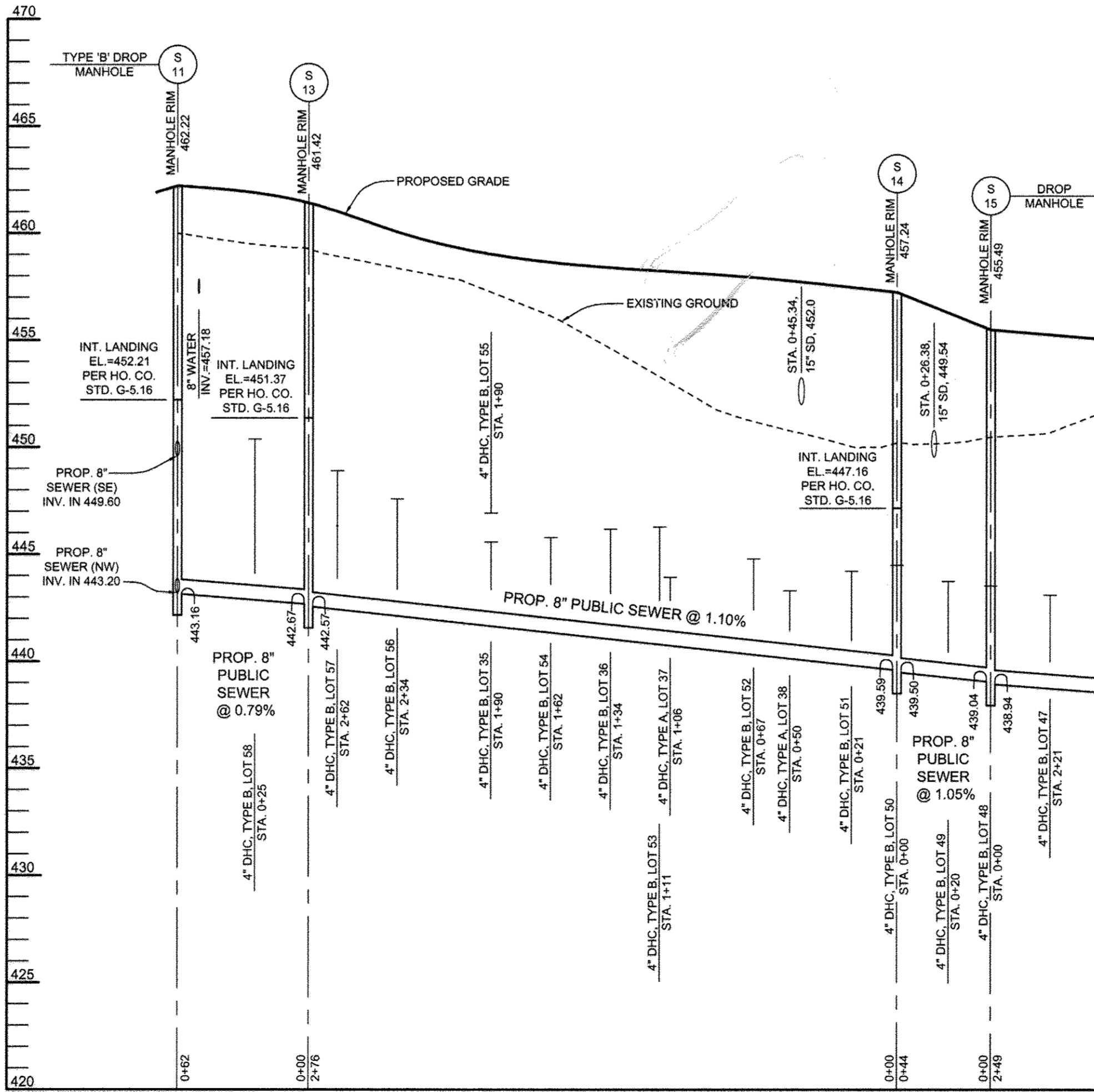
SEWER HOUSE CONNECTION SCHEDULE			
LOT NO.	INVERT @ MAIN	INVERT @ RW	MIN. CELLAR ELEV.
1	458.13	458.36	462.28
2	458.69	458.92	462.88
3	460.40	460.63	462.97
4	460.50	460.74	463.58
5	460.52	460.66	464.50
6 (1,2,3)	464.78	464.93	469.06
7 (1,3)	464.78	464.93	468.58
8	460.84	461.19	465.42
9	461.05	461.30	466.14
10	461.38	461.61	465.46
11	461.78	461.99	465.84
12	462.16	462.35	466.20
13	462.49	462.67	466.54
14	462.88	463.04	466.88
15 (1)	462.88	463.07	464.19
16	461.17	461.44	465.30
17	460.55	460.81	464.85
18	460.23	460.48	464.32
19 (1)	459.95	460.16	463.23
20 (1)	459.41	459.53	462.70
21 (1)	453.30	453.54	456.71
22	451.75	452.22	456.06
23	450.52	450.99	454.83
24	447.47	447.93	447.31
25	445.64	446.11	447.48
26	444.85	445.32	446.16
27	444.06	444.53	446.37
28	444.20	444.66	446.51
29	444.41	444.89	446.73
30 (1)	444.74	444.98	446.15
31	444.28	444.59	446.37
32	444.61	444.92	446.19
33	445.39	445.70	447.98
34	446.28	446.59	447.87

NOTES:  
1) SEWER HOUSE CONNECTION AT 1.0%  
2) BASEMENT DOES NOT SEWER BY GRAVITY  
3) TWIN SEWER HOUSE CONNECTION

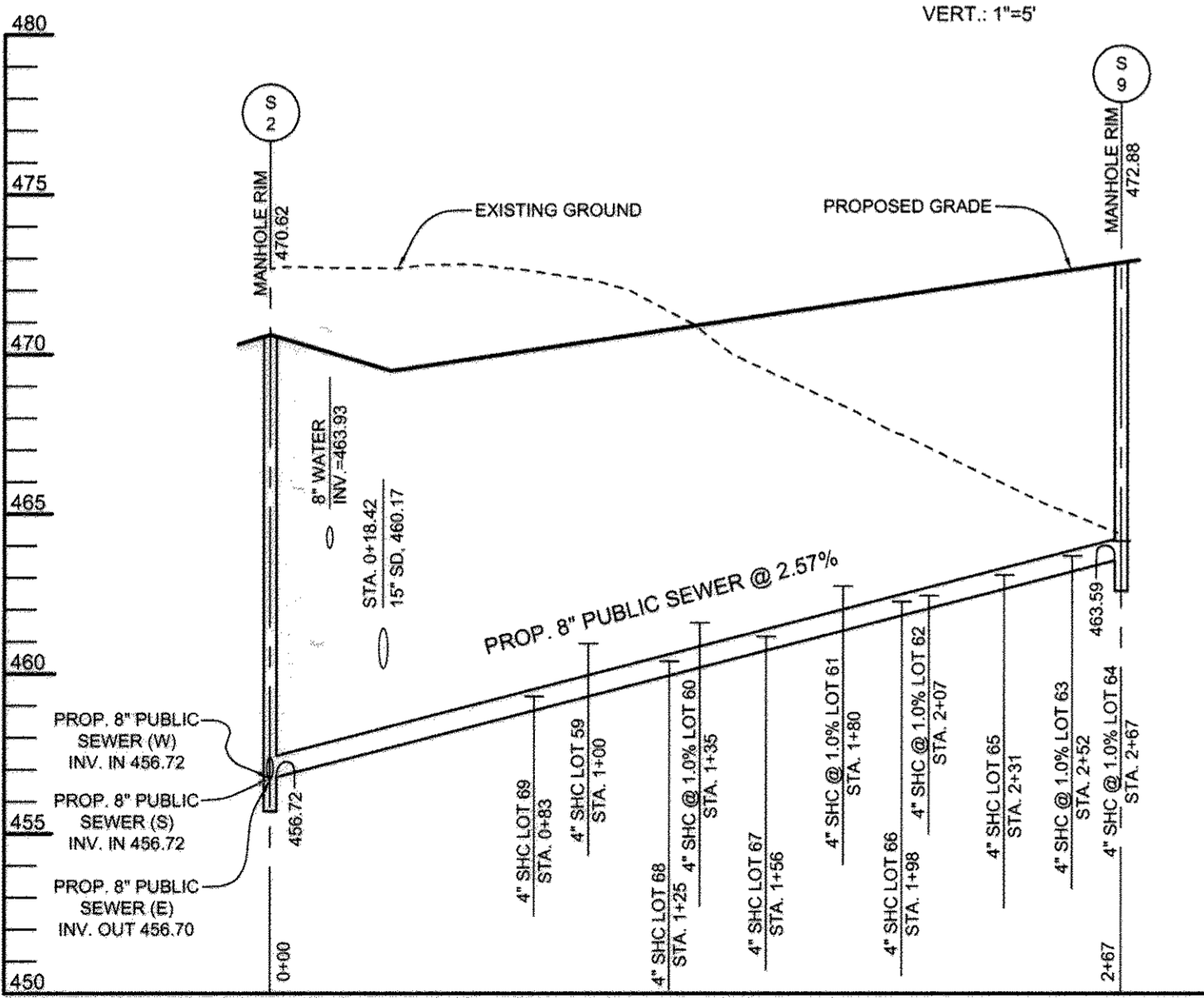
SEWER HOUSE CONNECTION SCHEDULE			
LOT NO.	INVERT @ MAIN	INVERT @ RW	MIN. CELLAR ELEV.
35	445.80	446.27	446.11
36	446.16	446.66	445.50
37	443.93	444.41	445.25
38	443.31	443.80	444.64
39	439.65	439.89	441.73
40	439.16	439.40	441.41
41	440.37	440.53	441.42
42	440.80	441.02	440.86
43	440.62	440.82	441.52
44	440.96	441.16	441.87
45	441.23	441.43	442.13
46	442.56	442.76	442.46
47	442.90	443.10	442.80
48	443.37	443.53	443.27
49	443.42	443.74	443.24
50	444.25	444.50	444.09
51	443.99	444.22	444.06
52	444.50	444.79	444.57
53	445.98	446.28	445.07
54	445.49	445.79	445.57
55	446.62	446.93	445.89
56	447.28	447.59	446.35
57	448.59	448.91	446.85
58	450.04	450.38	447.03
59	459.45	460.95	463.78
60 (1)	460.36	461.60	463.77
61 (1)	461.51	462.75	464.43
62 (1)	462.21	462.45	465.12
63 (1)	463.45	463.69	465.12
64 (1)	463.92	464.16	465.12
65	462.82	463.09	465.88
66	461.99	462.26	465.05
67	460.90	461.17	464.96
68	460.12	460.39	464.18
69	459.02	459.29	463.02
PARCEL A	464.59	465.00	464.14



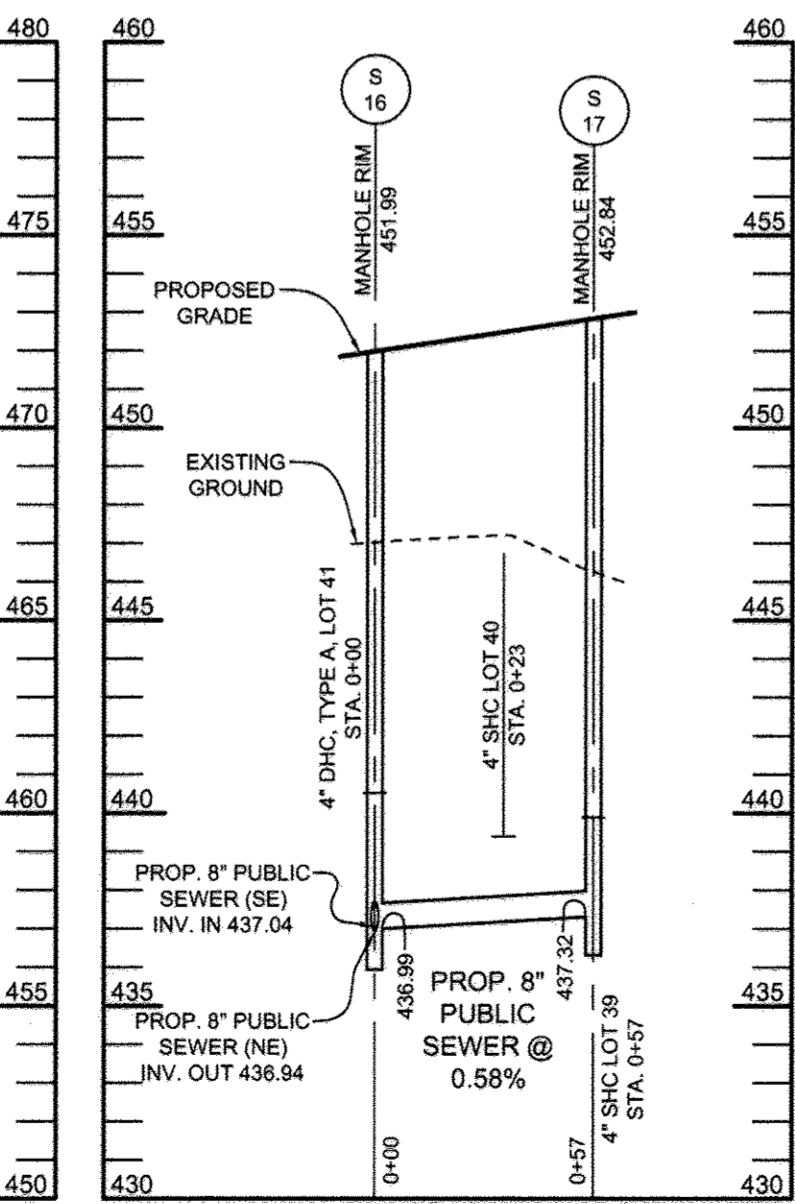
SEWER PROFILES  
SCALE: HORIZ.: 1"=50'  
VERT.: 1"=5'



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



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



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

THIS PLAN IS AN ADDITIONAL SHEET TO THE ORIGINAL PLAN SET. ALL BASE INFORMATION HAS BEEN TAKEN FROM THE ORIGINAL PLANS PREPARED BY AB CONSULTANTS, INC. THIS ADDITION WAS REQUIRED DUE TO THE FOLLOWING CONDITIONS:  
-THE PROPOSED SEWER MAINS WERE CONVERTED FROM PRIVATE TO PUBLIC.  
-THE PROJECT WAS CONVERTED FROM CONDOMINIUMS TO FEE SIMPLE LOTS REQUIRING THE RELOCATION OF SEVERAL WHCS AND SHCS (SEE SHEET TWO FOR CHART OF RELOCATIONS).

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Silva C. Carr*  
CHIEF, BUREAU OF UTILITIES

12/2/09  
DATE

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

*John P. ...*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

12/2/09  
DATE

Sill · Adcock & Associates · LLC  
Engineers · Surveyors · Planners

3300 North Ridge Road, Suite 160  
Ellicott City, Maryland 21043  
Phone: 443.325.7682 Fax: 443.325.7685  
Email: info@silladcock.com

DESIGNED BY: PS  
DRAWN BY: ZH  
CHECKED BY: PS  
DATE: NOV. 10, 2009

NO.	DESCRIPTION	DATE

SEWER PROFILES

600' SCALE MAP NO. 17 BLOCK NO. 8 & 14

ENCLAVE AT ELLICOTT STATION  
LOTS 1-69, OPEN SPACE LOT 70 AND PARCEL 'A'  
A RESUBDIVISION OF LOT 1 OF "HARBIN PROPERTY, MINOR SUBDIVISION"  
PLAT NO'S. 18317 THROUGH 18319

TAX MAP 17 GRIDS 8 & 14 PARCELS 26 & 27  
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-4323-D

SCALE: AS SHOWN

SHEET NO. 7 OF 7