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WATER AND SEWER EXTENSIONS EMERSON TOWNHOUSES

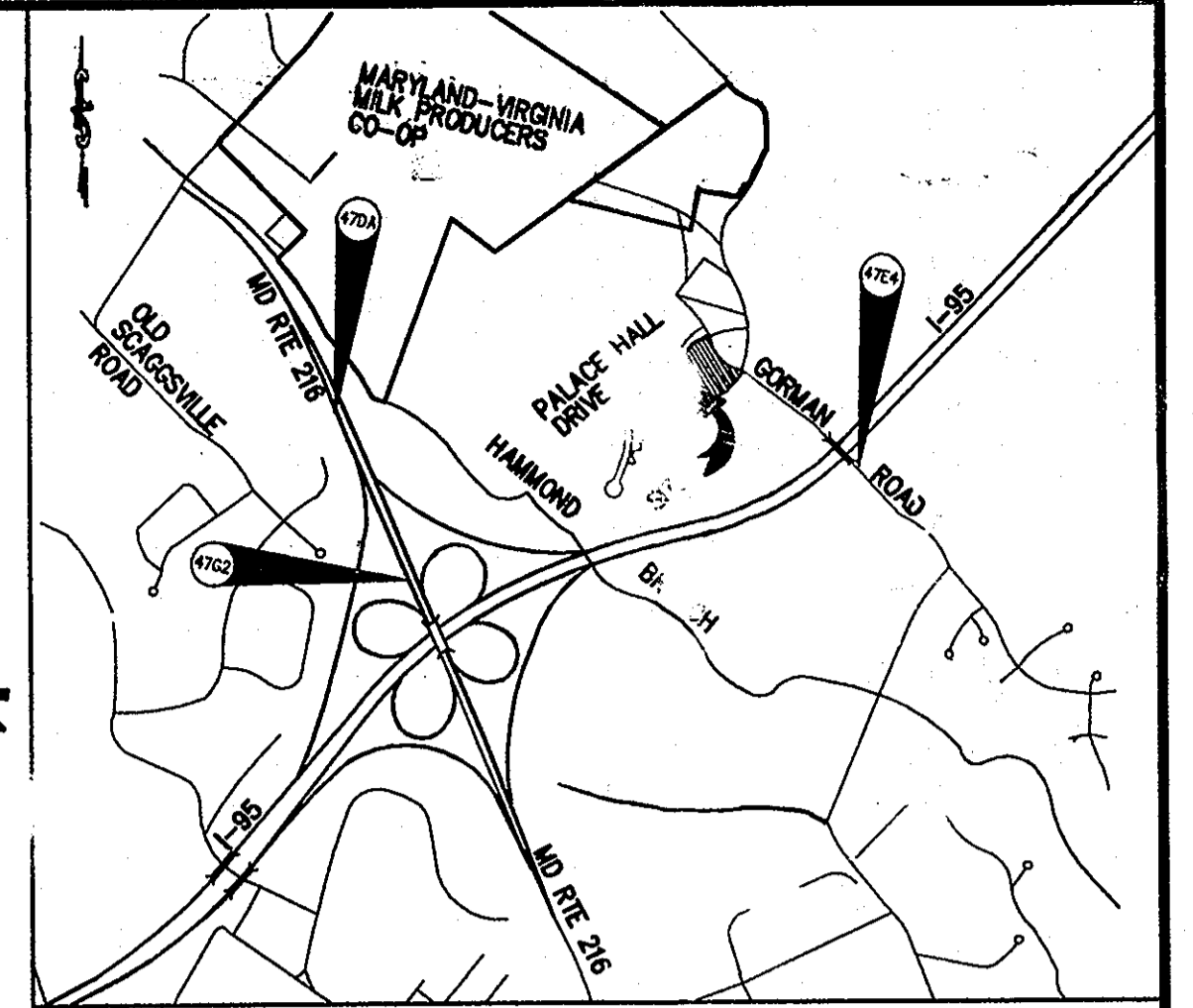
SECTION 2, PHASE 6A, LOTS 45-89, 92-124

A RESUBDIVISION OF PARCEL 'A-1' & 'B-1'

6th ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-4318-D



LOCATION MAP
SCALE 1" = 2000'
HOWARD COUNTY, MAP 19, GRID H-7

QUANTITIES (WILLIAMSBURG)

ITEMS	QUANT. ESTIMATE	AS-BUILT		MANUFACTURER/SUPPLIER
		QUANTITIES	TYPE	
8" WATER	993 LF	993 ± LF	D.I.P.	GRIFFIN PIPE
8" WATER	24 LF	24 ± LF	D.I.P.	GRIFFIN PIPE
8" CAP	2 EA	2 EA	D.I.P.	HARCO/H.D. SUPPLY
8" VALVES	1 EA	1 EA	GATE	KENNEDY/H.D. SUPPLY
6" VALVES	2 EA	2 EA	GATE	KENNEDY/H.D. SUPPLY
8" 1/8 HB	5 EA	5 EA	D.I.P.	HARCO/H.D. SUPPLY
8" 8" TEES	1 EA	1 EA	D.I.P.	HARCO/H.D. SUPPLY
12" 8" TSV	1 EA	1 EA	D.I.P.	FORD/H.D. SUPPLY
8" 6" HIT	2 EA	2 EA	D.I.P.	HARCO/H.D. SUPPLY
FIRE HYDRANT - 50'	1 EA	1 EA	KENNEDY	KENNEDY/H.D. SUPPLY
FIRE HYDRANT - 55'	1 EA	1 EA	KENNEDY	KENNEDY/H.D. SUPPLY
1" W/C	330 LF	349 LF	COPPER	CAMBRIDGE LEE/H.D. SUPPLY
1 1/2" W/C	282 LF	334 LF	COPPER	CAMBRIDGE LEE/H.D. SUPPLY
MANHOLES	6 EA	6 EA	PRECAST CONC.	ATLANTIC/ATLANTIC
8" SEWER	887 LF	907 ± LF	P.V.C.	DIAMOND PLASTICS/FERGUSON WATER WORKS
4" SHC	4" LF	468 ± LF	P.V.C.	DIAMOND PLASTICS/FERGUSON WATER WORKS
6" SHC	78 LF	78 ± LF	P.V.C.	DIAMOND PLASTICS/FERGUSON WATER WORKS

CHECK BOX
AS-BUILT DATE **MAY 29, 2007**
SURVEY & DRAFTING DIVISION

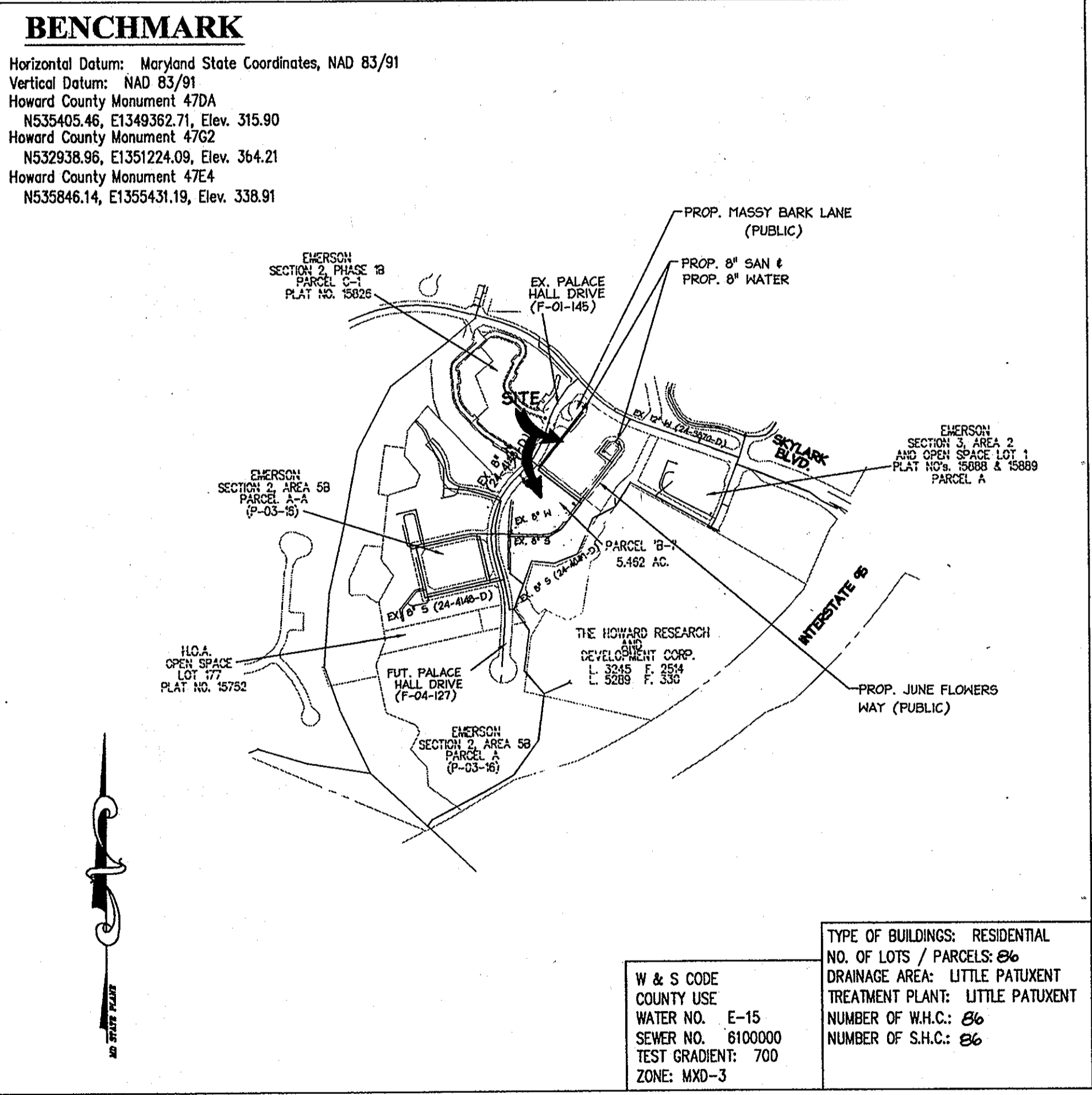
ITEMS	QUANTITIES ESTIMATE	QUANTITIES (STEWART-KRET)		AS-BUILT	MANUFACTURER/SUPPLIER
		AS-BUILT QUANTITIES	TYPE		
8" WATER	714 LF	919 LF	D.I.P.	GRIFFIN PIPE	
8" WATER	35 LF	35 LF	D.I.P.	GRIFFIN PIPE	
8" CAP	2 EA	2 EA	D.I.P.	HARCO/H.D. SUPPLY	
8" VALVES	4 EA	4 EA	GATE VALVE	KENNEDY/H.D. SUPPLY	
6" VALVES	2 EA	2 EA	GATE	KENNEDY/H.D. SUPPLY	
8" 8" TEES	2 EA	2 EA	D.I.P.	HARCO/H.D. SUPPLY	
8" 6" HIT	2 EA	2 EA	D.I.P.	HARCO/H.D. SUPPLY	
FIRE HYDRANT 5-0'	2 EA	1 EA	KENNEDY	KENNEDY/H.D. SUPPLY	
1" W/C	417 LF	492 LF	COPPER	CAMBRIDGE/H.D. SUPPLY	
1 1/2" W/C	404 LF	418 LF	COPPER	CAMBRIDGE/H.D. SUPPLY	
MANHOLES	8 EA	8 EA	PRECAST	ATLANTIC MANHOLES	
8" SEWER	1356 LF	1356 LF	PVC # D.I.P.	DIAMOND PLASTICS/GRiffin/ferguson	
4" SHC	492 LF	492 LF	"	"	
6" SHC	461 LF	461 LF	"	"	
4" W/C	280 LF	360 LF	D.I.P.	GRIFFIN PIPE	
4" VALVES	2 EA	2 EA	"	"	
4" CAP	2 EA	2 EA	D.I.P.	HARCO/H.D. SUPPLY	
8" 1/2 HB	1 EA	1 EA	"	"	
8" 1/16 HB	2 EA	2 EA	"	"	
8" 8" CROSS	1 EA	1 EA	"	"	
8" 4" REDUCER	2 EA	2 EA	"	"	
FIRE HYDRANT 6-5'	1 EA	1 EA	KENNEDY	KENNEDY/H.D. SUPPLY	

EDIME CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 218 OF THE SPECIFICATIONS AND AS SHOWN ON F-08-142 & F-08-143

ITEMS	QUANTITIES ESTIMATE	QUANTITIES	AS-BUILT	MANUFACTURER/SUPPLIER
#8" 1/4 VERT BAND	2 EA	2 EA	D.I.P.	GRIFFIN PIPE

*#8" 1/4 VERT BAND USED TO TIE IN NEW WATER LINE ON SCENTLESS ROAD WAY, TO EXISTING 8" STUB FROM PALACE HALL DRIVE.

REVIEWED BY: *Jim Meyer* 10/23/06
DATE: 10/23/06
THIS PLAN IS APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.
John L. Rhoton 10/23/06
DATE: 10/23/06



VICINITY MAP
SCALE: 1" = 600'

W & S CODE COUNTY USE
WATER NO. E-15
SEWER NO. 6100000
TEST GRADIENT: 700
ZONE: MXD-3

TYPE OF BUILDINGS: RESIDENTIAL
NO. OF LOTS / PARCELS: 86
DRAINAGE AREA: LITTLE PATUXENT
TREATMENT PLANT: LITTLE PATUXENT
NUMBER OF W.H.C.: 86
NUMBER OF S.H.C.: 86

AS BUILT
DATE: MAY 29, 2007

LOTS 92-124
OWNER:
STEWART-KRET HOMES
790 SAMUEL MARSH DRIVE, SUITE 500
COLUMBIA, MD 21046

LOTS 45-89
DEVELOPER:
WILLIAMSBURG GROUP, LLC
5485 HARPER'S FARM ROAD
P.O. BOX 1018
COLUMBIA, MD 21044
TEL (410) 997-8800
FAX (410) 997-4358



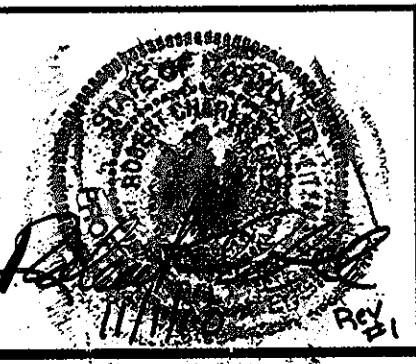
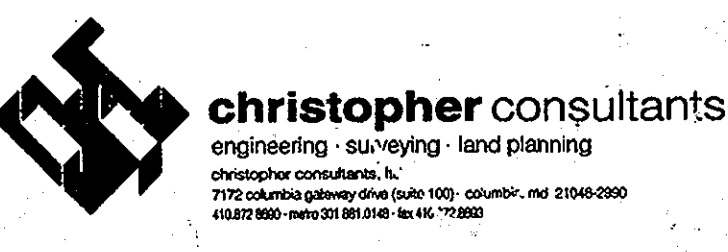
- #### GENERAL NOTES
- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 - TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON DECEMBER 2004 BY christopher consultants, ltd.
 - 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. 47DA, NO. 47G2 AND NO. 47E4. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THESE DRAWINGS ARE STAMPED DISC ON TOP OF A CONCRETE COLUMN.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-0" MINIMUM OR 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 EXISTING POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES TO EXISTING POLES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE WORK.
 - FOR DETAILS NOT SHOWN ON THE DRAWING, AND FOR MATERIAL AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME 10, 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 IDENTIFIED BY THE SYMBOLS SHOWN ON THE DRAWINGS. AT THE LOCATIONS OF THE TEST PITS, A NOTE OR SIGN SHALL BE PLACED TO INDICATE THE LOCATION OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES. THE CONTRACTOR SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF THE TEST PITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AND AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THE PLANS:
AT&T - 252-1133
BGE (CONTRACTOR SERVICES) - J-850-4620
BGE (EMERGENCY) - 410-685-1400
BUREAU OF UTILITIES - 410-313-4800
COLONIAL PIPELINE CO. - 410-795-1390
MISS UTILITY - 1-800-257-7777
STATE HIGHWAY ADMINISTRATION - 410-531-5533
VERIZON - 1-800-743-0033/410-224-9210
 - 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 LINE OF EXCAVATION. 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 (g) OF THE HOWARD COUNTY CODE.
- PART II - WATER**
- ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS SHALL 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 INSTALLED IN ACCORDANCE WITH STANDARD DETAIL: THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
 - THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- PART III - 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. PLAN AND PROFILE SHALL HAVE WATER TIGHT FRAME AND COVER, STANDARD DETAIL 65-52, WHERE WATER TIGHT 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." INDICATES THAT THE CELLAR CANNOT BE SERVED.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert R. Rhoton 10-4-06
DATE: 10-4-06
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

John L. Rhoton 10/24/06
DATE: 10/24/06
CHIEF, DEVELOPMENT ENGINEERING DIVISION



DES: KWS				
DRN: AJK				
CHK: BAM	CRH	2	LOT NUMBER UPDATES	W/11/06
DATE: SEPT. 2006	ENJ	1	COMBINED CONTRACT 24-4332-D W/ THIS CONTRACT	W/11/06
	BY	NO.	REVISION	DATE

TITLE SHEET OF
WATER and SEWER EXTENSIONS

600 SCALE MAP NO. 47 BLOCK NO. 889

WATER and SEWER EXTENSIONS
A RESUBDIVISION OF PARCEL 'A-1' AND 'B-1'
EMERSON LOTS 92-124, OPEN SPACE LOTS 125-127
SECTION 2 PHASE 6A LOTS 45-89, OPEN SPACE LOTS 90, 91
CONTRACT NO. 24-4318-D

TAX MAP 47
6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 1 OF 7

WATER LINE DATA				
ROAD	ROAD C. STATION	DESCRIPTION	OFFSET (FT)	REMARKS
JUNE FLOWERS WAY	9+20	8" 1/8 BEND	9'L	
JUNE FLOWERS WAY	9+60	8" 1/8 BEND	9'L	
JUNE FLOWERS WAY	9+79	12"x8" TSV	14'R	
JUNE FLOWERS WAY	9+87	8"x8" TEE	9'L	
JUNE FLOWERS WAY	9+93	8" 1/8 BEND	8'L	
JUNE FLOWERS WAY	10+26	8" 1/8 BEND	6'L	
JUNE FLOWERS WAY	10+86	8"x6" FHT	9'L	
JUNE FLOWERS WAY	10+86	6" VALVE	11'L	
JUNE FLOWERS WAY	10+86	FIRE HYDRANT	16'L	
JUNE FLOWERS WAY	10+96	8" CAP	9'L	
SILKEN LEAF COURT	2+41	8" 1/8 BEND	2'R	
SILKEN LEAF COURT	2+47	FIRE HYDRANT	20'R	
SILKEN LEAF COURT	2+49	6" VALVE	8'R	
SILKEN LEAF COURT	2+50	8"x6" FHT	3'R	
SILKEN LEAF COURT	2+58	8" CAP	8'R	

AS-BUILT LEGEND
 SHC - SANITARY HOUSE CONNECTION
 WHC - WATER HOUSE CONNECTION
 V - VALVE
 SMH - SANITARY MANHOLE
 SDMH - STORMDRAIN MANHOLE
 F.H. - FIRE HYDRANT

LOT 81
 WHC TO WHC LOT 82 - 0.7'
 WHC TO SHC LOT 82 - 29.5'
 SHC TO WHC LOT 81 - 17.0'
 SHC TO WHC LOT 82 - 23.0'
 SHC TO WHC LOT 82 - 23.0'

LOT 84
 WHC TO SHC LOT 84 - 27.5'
 SHC TO SHC LOT 85 - 34.0'
 SHC TO SHC LOT 85 - 47.3'
 WHC TO WHC LOT 83 - 0.7'
 SHC TO N. CORNER HSE. - 19.8'
 LOT 84

LOT 86
 WHC TO SHC LOT 86 - 13.3'
 WHC TO SMH 9 - 02.3'
 SHC TO SHC LOT 87 - 18.8'
 SHC TO SMH 9 - 50.0'
 SHC TO 6" F.H. VALVE - 18.0'
 SHC TO 6" F.H. VALVE - 18.0'

LOT 88
 WHC TO SHC LOT 88 - 12.4'
 WHC TO SMH 9 - 20.0'
 WHC TO 6" F.H. VALVE - 40.8', WHC TO F.H. - 49.0'
 SHC TO SHC LOT 89 - 10.2'
 SHC TO SMH 9 - 17.3'
 SHC TO 6" F.H. VALVE - 38.0'
 SHC TO 6" F.H. - 37.5'

LOT 85
 SHC TO N. HSE. CORNER - 19.8'
 SHC TO WHC LOT 85 - 13.7'
 SHC TO SMH 9 - 81.0'
 WHC TO WHC LOT 86 - 0.1'
 WHC TO SMH - 08.0'

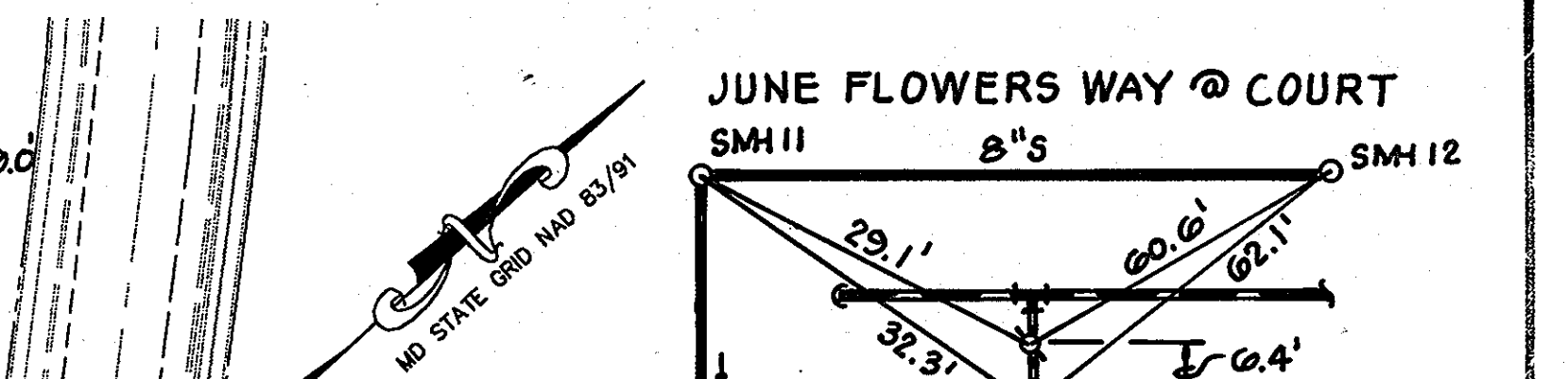
LOT 87
 SHC TO WHC LOT 87 - 14.1'
 SHC TO 6" F.H. VALVE - 02.0'
 SHC TO SMH 9 - 32.8'
 WHC TO WHC LOT 88 - 5.8'
 WHC TO 6" F.H. VALVE - 50.7'
 WHC TO SMH 9 - 22.7'

LOT 82
 WHC TO SHC LOT 82 - 23.3'
 WHC TO WHC LOT 83 - 45.5'
 SHC TO SHC LOT 83 - 8.4'
 SHC TO WHC LOT 83 - 22.4'

LOT 89
 SHC TO 6" F.H. VALVE - 31.0'
 SHC TO WHC LOT 89 - 19.5'
 SHC TO SMH 9 - 19.4'
 WHC TO SMH 9 - 30.2'
 WHC TO 6" F.H. VALVE - 8.4'
 WHC TO 6" F.H. - 19.4'
 SHC TO F.H. - 27.0'

LOT 80
 WHC TO SHC LOT 80 - 20.0'
 WHC TO WHC LOT 81 - 41.9'
 SHC TO SHC LOT 81 - 41.0'
 SHC TO WHC LOT 81 - 22.0'

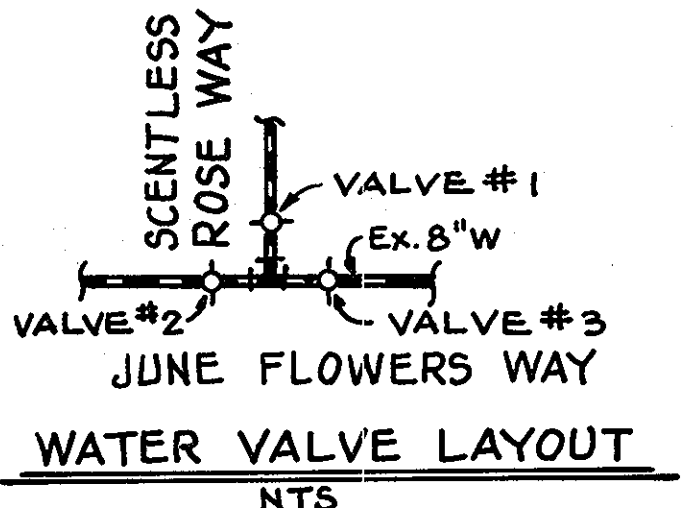
LOT 79
 SHC TO WHC LOT 79 - 23.9'
 SHC TO 6" VALVE - 120.0' ±
 (SCENTLESS ROSE WAY)
 WHC TO WHC LOT 80 - 0.3'
 WHC TO S. HSE. CORNER LOT 79 - 10.1'
 SHC TO S. HSE. CORNER LOT 79 - 29.0'



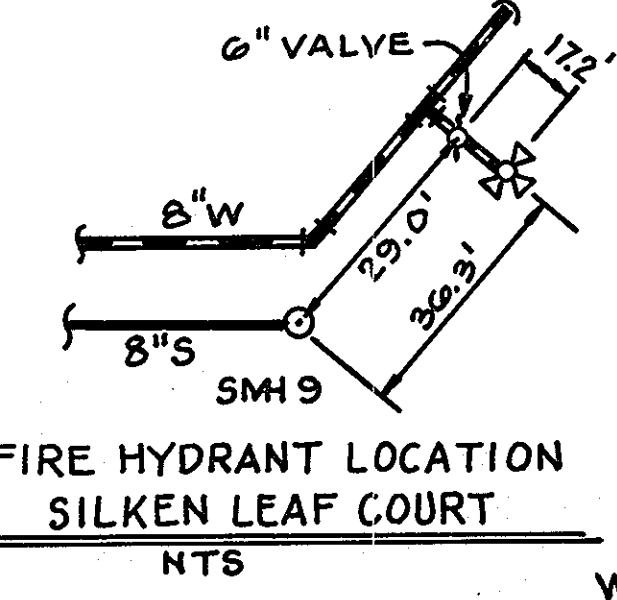
LOT NO.	MIN. CELLAR ELEV.	SHC INV. @ ROW/EASMT.	HO. CO. DETAIL NO.	SLOPE (%)
46	329.31 (C.N.S.)	327.97	S2.12 (TYPE 'A') W/TWIN	
47	329.20 (C.N.S.)	327.90	S2.12 (TYPE 'A') W/TWIN	
48	331.23 (C.N.S.)	329.97	S2.12 (TYPE 'A') W/TWIN	
49	331.27 (C.N.S.)	329.97	S2.12 (TYPE 'A') W/TWIN	
50	331.95 (C.N.S.)	330.64	S2.12 (TYPE 'A')	4.3%
51	333.34 (C.N.S.)	332.13	S2.12 (TYPE 'A')	
52	334.93 (C.N.S.)	333.63	S2.12 (TYPE 'A') W/TWIN	3.9%
53	334.97 (C.N.S.)	333.63	S2.12 (TYPE 'A') W/TWIN	3.9%
54	337.33 (C.N.S.)	335.95	S2.11	4.3%
55	337.36 (C.N.S.)	336.02	S2.11	4.6%
56	338.69 (C.N.S.)	337.35	S2.14 TO MH	
57	338.67 (C.N.S.)	337.51	S2.14 TO MH	
58	339.37 (C.N.S.)	337.81	S2.11	3.6%
59	340.55 (C.N.S.)	338.03	S2.14 TO MH	
60	341.41 (C.N.S.)	338.47	S2.14 TO MH	
61	339.76 (C.N.S.)	338.02	S2.11 TO MH	
62	339.28 (C.N.S.)	338.00	S2.14 TO MH	
63	339.40 (C.N.S.)	338.14	S2.14 TO MH	
64	338.92 (C.N.S.)	337.66	S2.11 (TYPE 'A') W/TWIN	3.8%
65	338.92 (C.N.S.)	337.70	S2.11 (TYPE 'A') W/TWIN	3.8%
66	338.46 (C.N.S.)	337.20	S2.11	
67	334.72 (C.N.S.)	333.26	S2.12 (TYPE 'A')	
68	332.54 (C.N.S.)	331.12	S2.12 (TYPE 'A') W/TWIN	
69	332.50 (C.N.S.)	331.12	S2.12 (TYPE 'A') W/TWIN	

LOT NO.	MIN. CELLAR ELEV.	SHC INV. @ ROW/EASMT.	HO. CO. DETAIL NO.	SLOPE (%)
70	331.18 (C.N.S.)	329.84	S2.12 (TYPE 'A')	
71	339.33 (C.N.S.)	338.07	S2.12 (TYPE 'A')	
80	340.03 (C.N.S.)	338.73	S2.12 (TYPE 'A') W/TWIN	
81	340.07 (C.N.S.)	338.73	S2.12 (TYPE 'A') W/TWIN	
82	340.70 (C.N.S.)	339.40	S2.12 (TYPE 'A')	
83	341.33 (C.N.S.)	340.07	S2.12 (TYPE 'A')	
84	341.37 (C.N.S.)	340.07	S2.12 (TYPE 'A')	
85	341.29 (C.N.S.)	340.07	S2.12 (TYPE 'A')	
86	341.33 (C.N.S.)	340.07	S2.12 (TYPE 'A')	
87	340.70 (C.N.S.)	339.40	S2.12 (TYPE 'A')	
88	338.17 (C.N.S.)	336.89	S2.14 TO MH	
89	338.33 (C.N.S.)	337.01	S2.14 TO MH	

NOTE
 FOR LOCATIONS OF SHC AND WHC FOR LOTS 71 TO 78 SEE SHEET No. 3 of 7



NOTES:
 1. ALL 1" WHC'S AND 1/2" TWIN WHC'S SHALL HAVE 1" BALL VALVES INSTALLED AT RIGHT OF WAY OR EASEMENT LINE. ALL WHC SHALL HAVE 3/4" INSIDE METERS.
 2. ALL SHC CLEANOUT ARE STD. 4" CLEANOUTS.
 3. ALL WHC BALL VALVES & SHC CLEANOUTS SHALL BE LOCATED WITHIN A GRASSY AREA, OUTSIDE THE PAVED DRIVEWAYS WHENEVER POSSIBLE.
 4. ALL SHC'S ARE DESIGNED FOR 2% GRADE UNLESS OTHERWISE NOTED.



LOT 45
 SHC TO SMH 0 - 40.7'
 SHC TO 8" VALVE #3 - 35.0'
 SHC TO WHC LOT 45 - 24.0'
 WHC TO WHC LOT 40 - 7.3'
 WHC TO 8" VALVE #3 - 53.2'
 WHC TO SMH 0 - 09.8'

LOT 46
 SHC TO WHC LOT 46 - 17.0'
 SHC TO SHC LOT 47 - 0.9'
 SHC TO 8" VALVE #3 - 70.1'
 SHC TO SDMH/M4 - 43.0'
 WHC TO SDMH/M4 - 48.7'
 WHC TO 8" VALVE #3 - 59.0'
 WHC TO SMH 0 - 70.0'

LOT 47
 SHC TO WHC LOT 47 - 10.9'
 SHC TO 8" VALVE #3 - 81.8'
 SHC TO SDMH/M4 - 40.7'
 WHC TO WHC LOT 48 - 41.5'
 WHC TO SDMH/M4 - 42.8'
 WHC TO SHC LOT 70 - 42.0' ±

LOT 48
 WHC TO SHC LOT 48 - 21.9'
 WHC TO SDMH/M4 - 43.0'
 SHC TO SDMH/M4 - 57.8'
 SHC TO SHC LOT 49 - 9.7'
 SHC TO WHC LOT 09 - 47.0'
 SHC TO SHC LOT 70 - 45.8'

LOT 49
 SHC TO WHC LOT 49 - 14.8'
 SHC TO SDMH/M4 - 04.1'
 SHC TO WHC LOT 09 - 43.2'
 WHC TO WHC LOT 70 - 43.1'
 WHC TO WHC LOT 50 - 8.3'
 WHC TO SDMH/M4 - 78.1' ±

LOT 50
 WHC TO SHC LOT 50 - 25.4'
 WHC TO SDMH/M4 - 82.3'
 SHC TO SHC LOT 51 - 11.0'
 SHC TO SMH 10 - 80.0'
 SHC TO WHC LOT 08 - 40.0'

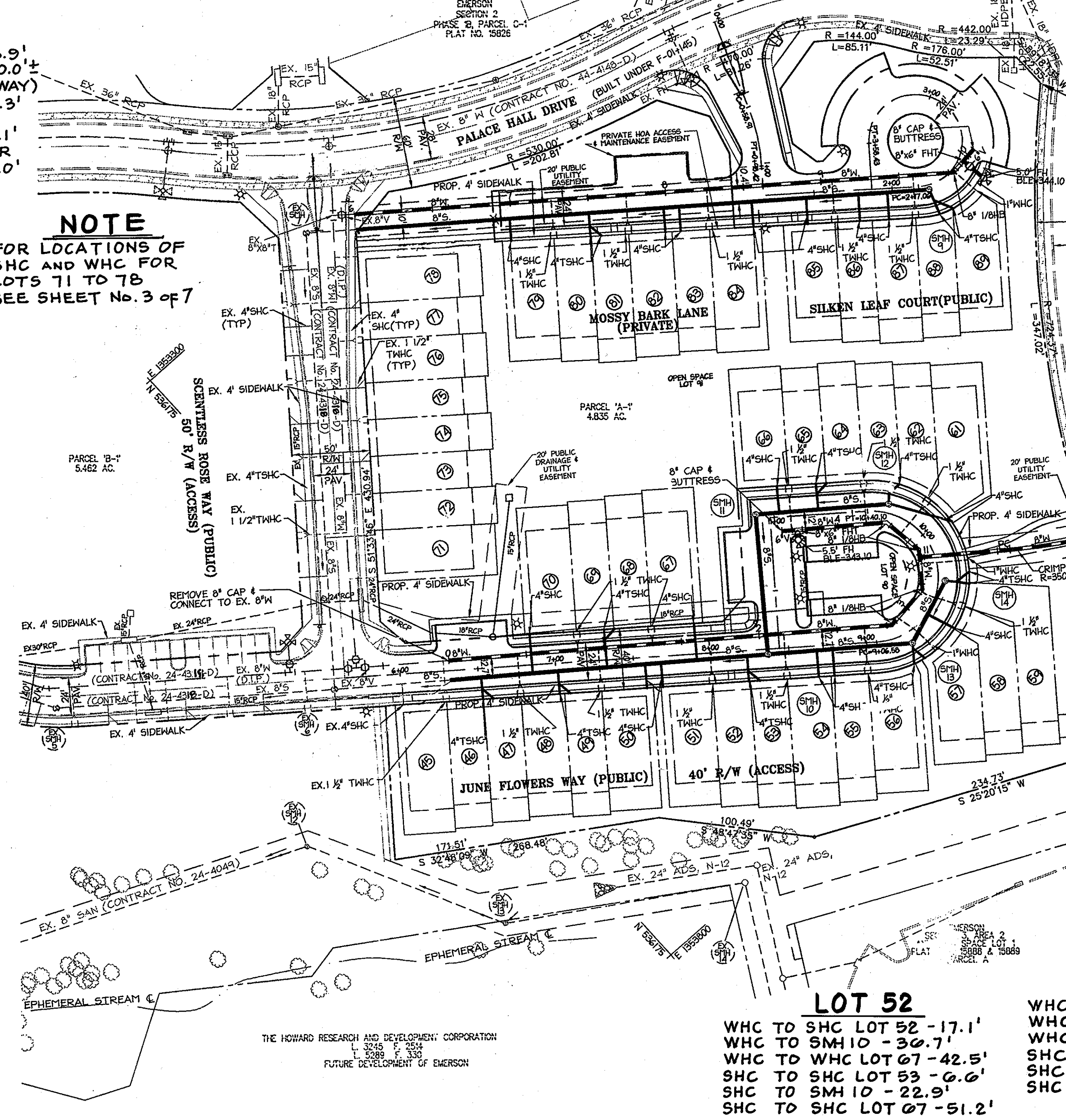
LOT 51
 SHC TO WHC LOT 51 - 27.3'
 SHC TO SMH 10 - 70.7'
 SHC TO WHC LOT 08 - 43.0'
 WHC TO WHC LOT 52 - 8.3'
 WHC TO SMH 10 - 44.0'
 WHC TO WHC LOT 07 - 39.8'

LOT 52
 WHC TO SHC LOT 52 - 17.1'
 WHC TO SMH 10 - 30.7'
 WHC TO WHC LOT 07 - 42.5'
 SHC TO SHC LOT 53 - 0.6'
 SHC TO SMH 10 - 22.9'
 SHC TO SHC LOT 07 - 51.2'

LOT 53
 SHC TO WHC LOT 53 - 10.7'
 SHC TO SMH 10 - 18.7'
 WHC TO SMH 10 - 17.0'
 WHC TO WHC LOT 54 - 7.2'

LOT 54
 WHC TO SHC LOT 54 - 18.2'
 WHC TO SMH 10 - 22.0'
 WHC TO SMH 13 - 80.4'
 SHC TO SHC LOT 55 - 10.5'
 SHC TO SMH 10 - 09.8'
 SHC TO SMH 13 - 30.3'

LOT 55
 SHC TO WHC LOT 55 - 17.8'
 SHC TO SMH 10 - 52.9'
 SHC TO SMH 13 - 45.4'
 WHC TO WHC LOT 50 - 0.2'
 WHC TO SMH 10 - 02.5'
 WHC TO SMH 13 - 30.9'



LOT 68
 WHC TO SHC LOT 68 - 19.0'
 WHC TO SMH 10 - 31.9'
 SHC TO SHC LOT 69 - 4.8'
 SHC TO SMH 10 - 100.0'
 SHC TO SDMH/M4 - 79.0'

LOT 69
 SHC TO WHC LOT 69 - 18.0'
 SHC TO SMH 10 - 104.0' ±
 SHC TO SDMH/M4 - 75.0'
 WHC TO SDMH/M4 - 57.1'
 WHC TO WHC LOT 70 - 5.7'

LOT 67
 SHC TO WHC LOT 67 - 24.5'
 SHC TO SMH 10 - 53.3'
 WHC TO WHC LOT 68 - 0.0'
 WHC TO SMH 10 - 70.1'

LOT 70
 WHC TO SHC LOT 70 - 27.0'
 WHC TO WHC LOT 49 - 43.1'
 WHC TO SDMH/M4 - 51.4'
 SHC TO SDMH/M4 - 57.0'
 SHC TO WHC LOT 49 - 24.0'

LOT 66
 WHC TO SHC LOT 66 - 4.7'
 WHC TO 6" F.H. VALVE - 31.0'
 WHC TO SMH 11 - 27.7'
 SHC TO SMH 11 - 24.5'
 SHC TO 6" F.H. VALVE - 32.3'

LOT 65
 SHC TO WHC LOT 65 - 19.2'
 SHC TO SMH 11 - 48.7'
 SHC TO SMH 12 - 03.1'
 WHC TO WHC LOT 66 - 0.0'
 WHC TO 6" F.H. VALVE - 34.9'
 WHC TO SMH 11 - 32.0'
 WHC TO SMH 12 - 44.8'

LOT 64
 WHC TO SHC LOT 64 - 17.8'
 WHC TO SMH 12 - 25.5'
 WHC TO 6" F.H. VALVE - 52.0'
 SHC TO SHC LOT 65 - 7.0'
 SHC TO 6" F.H. VALVE - 38.0'
 SHC TO SMH 12 - 38.0'
 SHC TO SMH - 55.0'

LOT 63
 SHC TO SMH 14 - 71.8'
 SHC TO SMH 12 - 17.5'
 SHC TO WHC LOT 03 - 18.5'
 WHC TO WHC LOT 04 - 0.0'
 WHC TO SMH 12 - 24.0'
 WHC TO 6" F.H. VALVE - 58.2'

LOT 62
 WHC TO SHC LOT 62 - 11.5'
 WHC TO SMH 14 - 58.7'
 WHC TO SMH 12 - 20.5'
 SHC TO SHC LOT 03 - 9.0'
 SHC TO SMH 12 - 20.0'
 SHC TO SMH 14 - 55.0'

LOT 61
 SHC TO WHC LOT 61 - 17.3'
 SHC TO SMH 14 - 39.8'
 SHC TO SMH 12 - 42.2'
 WHC TO WHC LOT 02 - 8.2'
 WHC TO SMH 14 - 53.4'
 WHC TO SMH 12 - 32.0'

LOT 60
 SHC TO WHC LOT 60 - 10.0'
 SHC TO SMH 14 - 15.2'
 SHC TO SMH 13 - 57.1'
 WHC TO SHC LOT 01 - 28.5'
 WHC TO SMH 14 - 17.5'
 WHC TO SMH 12 - 00.5'

LOT 59
 SHC TO SHC LOT 59 - 10.0'
 WHC TO SMH 13 - 21.7'
 SHC TO SMH 14 - 45.9'
 SHC TO SHC LOT 00 - 7.0'
 SHC TO SMH 14 - 17.0'
 SHC TO SMH 13 - 52.9'

LOT 58
 SHC TO WHC LOT 58 - 10.3'
 SHC TO SMH 13 - 40.4'
 SHC TO SMH 14 - 31.9'
 WHC TO WHC LOT 59 - 8.10'
 WHC TO SMH 13 - 15.9'
 WHC TO SMH 14 - 45.8'

LOT 57
 SHC TO WHC LOT 57 - 11.7'
 SHC TO SMH 13 - 11.7'
 SHC TO SMH 14 - 54.3'
 WHC TO SHC LOT 58 - 19.0'
 WHC TO SMH 13 - 15.9'
 WHC TO SMH 14 - 45.8'

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 5485 HARPER'S FARM ROAD
 P.O. BOX 1018
 COLUMBIA, MD 21044
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DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

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DES: KWS
 DRN: AJK
 CHK: BAM
 DATE: SEPT. 2006

BY	NO.	REVISION	DATE
ORH	2	LOT NUMBER UPDATES	11/10
ENT	1	COMBINED CONTRACT 24-4332-D WITH THIS CONTRACT	11/10

AS BUILT
 DATE: MAY 29, 2007

PLAN OF
 WATER and SEWER EXTENSIONS
 WILLIAMSBURG

600 SCALE MAP NO. 47 BLOCK NO. 889

WATER and SEWER EXTENSIONS
 A RESUBDIVISION OF PARCEL 'A-1' AND 'B-1'
EMERSON LOTS 92-124, OPEN SPACE LOTS 125-127
 SECTION 2 PHASE 6A LOTS 45-89, OPEN SPACE LOTS 90,91
 CONTRACT NO. 24-4318-D

TAX MAP 47 ZONE MXD-3
 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE 1"=50'
 SHEET 2 OF 7

WATER LINE DATA				
ROAD	ROAD & STATION	OFFSET (FT)	DESCRIPTION	REMARKS
JUNE FLOWERS WAY	0+86	6'L	8"X8" CROSS	
JUNE FLOWERS WAY	0+86	2'1"	4" VALVE	
JUNE FLOWERS WAY	0+86	10'R	4" VALVE	
JUNE FLOWERS WAY	0+86	4'R	8"X4" R	
JUNE FLOWERS WAY	0+86	16'L	8"X4" R	
JUNE FLOWERS WAY	1+05	6'L	8"X6" FHT	
JUNE FLOWERS WAY	1+05	11'L	6" VALVE	
JUNE FLOWERS WAY	1+05	25'L	FIRE HYDRANT	
JUNE FLOWERS WAY	2+73	6'L	8" 1/32 BEND	
JUNE FLOWERS WAY	3+13	6'L	8" 1/16 BEND	
JUNE FLOWERS WAY	3+72	5'L	8" 1/16 BEND	
JUNE FLOWERS WAY	5+30	6'L	8"X6" FHT	
JUNE FLOWERS WAY	5+30	11'L	6" VALVE	
JUNE FLOWERS WAY	5+30	26'L	FIRE HYDRANT	
JUNE FLOWERS WAY	5+70	6'L	8" VALVE	
JUNE FLOWERS WAY	5+75	6'L	8"X8" TEE	
JUNE FLOWERS WAY	5+80	6'L	8" VALVE	
JUNE FLOWERS WAY	5+89	6'L	8" CAP & BUTRESS	
SCENTLESS ROSE WAY	0+41	11'L	8"X8" TEE	
SCENTLESS ROSE WAY	0+41	16'L	8" VALVE	
SCENTLESS ROSE WAY	0+41	25'L	8" CAP & BUTRESS	
SCENTLESS ROSE WAY	3+29	11'L	4" VALVE	
SWEET MAPLE LANE	0+50	4'R	PC	
SWEET MAPLE LANE	1+88	8'R	4" CAP & BUTRESS	
TWILIGHT BEECH LANE	0+74	6'L	PC	
TWILIGHT BEECH LANE	1+38	7'L	PT	
TWILIGHT BEECH LANE	1+91	5'L	2" CAP & BUTRESS	

SWEET MAPLE LANE

LOT 92
 SHC TO SMH-2 - 15.5'
 SHC TO WHC LOT 92 - 18.2'
 SHC TO SMH-2 - 30.5'
 WHC TO WHC LOT 93 - 7.7'
 SHC TO WHC LOT 93 - 7.7'
 SHC TO WHC LOT 93 - 29.2'
 WHC TO WHC LOT 93 - 29.2'
 WHC TO WHC LOT 93 - 29.0'

LOT 93
 WHC TO SHC LOT 93 - 37.7'
 WHC TO SMH-1 - 14.5'
 WHC TO WHC LOT 93 - 32.5'
 SHC TO SMH-1 - 51.2'
 SHC TO SHC LOT 94 - 25.7'
 SHC TO WHC LOT 94 - 41.1'

LOT 94
 SHC TO SMH-1 - 70.4'
 SHC TO SMH-1 - 62.0'
 SHC TO WHC LOT 94 - 3.0'
 WHC TO WHC LOT 95 - 7.5'
 WHC TO SMH-1 - 61.0'
 WHC TO SHC LOT 95 - 20.5'

LOT 95
 SHC TO SMH-1 - 55.7'
 SHC TO SHC LOT 95 - 28.1'
 WHC TO SMH-1 - 57.9'
 WHC TO SHC LOT 95 - 15.0'
 WHC TO SMH-1 - 77.1'

TWILIGHT BEACH LANE

LOT 119
 SHC TO WHC LOT 119 - 20.8'
 SHC TO F.H. - 35.3'
 SHC TO 4"V(TWILIGHT BEACH LA.)-57.0'
 WHC TO 4"V(TWILIGHT BEACH LA.)-70.7'
 WHC TO WHC LOT 120 - 7.0'
 WHC TO SHC LOT 120 - 17.3'

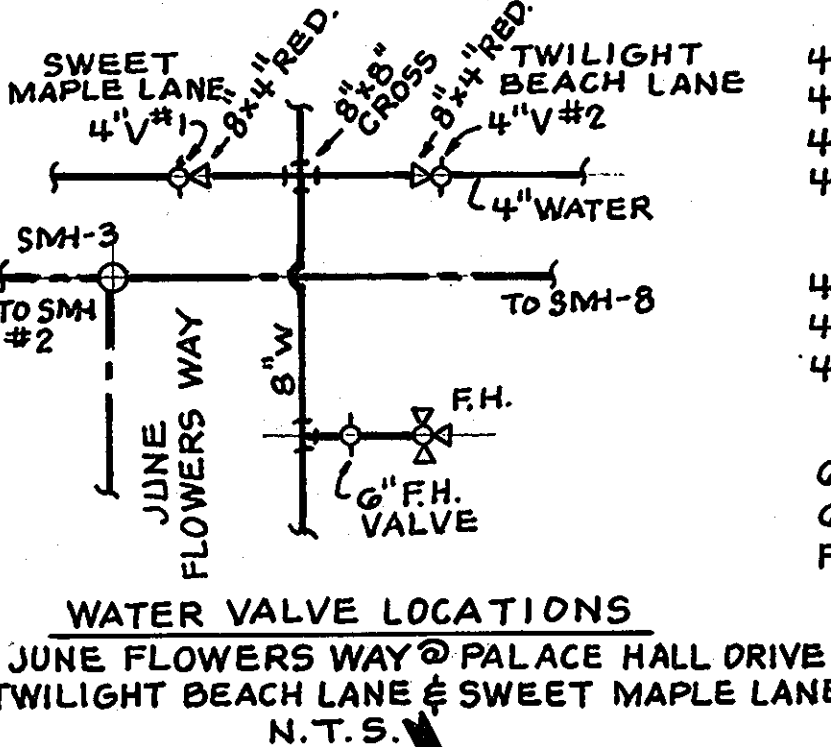
LOT 120
 SHC TO SHC LOT 121 - 7.0'
 SHC TO WHC LOT 121 - 24.7'
 SHC TO 4"V(TWILIGHT BEACH LA.)-100.7'
 WHC TO 4"V(TWILIGHT BEACH LA.)-83.9'
 WHC TO SHC LOT 120 - 20.0'

LOT 121
 SHC TO WHC LOT 121 - 17.0'
 SHC TO 4"V(TWILIGHT BEACH LA.)-95.5'
 SHC TO SMH-B - 70.4'
 WHC TO WHC LOT 122 - 0.8'
 WHC TO SMH-B - 52.9'

LOT 122
 WHC TO SHC LOT 122 - 20.3'
 WHC TO SMH-B - 40.4'
 SHC TO SHC LOT 123 - 5.0'
 SHC TO SMH-B - 27.9'

LOT 123
 SHC TO SMH-B - 22.7'
 SHC TO WHC LOT 123 - 5.4'
 SHC TO WHC LOT 124 - 17.7'
 WHC TO SMH-B - 11.1'
 WHC TO SHC LOT 124 - 0.7'

LOT 124
 WHC TO SMH-B - 11.5'
 WHC TO SHC LOT 124 - 22.1'
 SHC TO SMH-B - 28.8'



SWEET MAPLE LANE
 4" VALVE #1 TO 4" VALVE #2 - 7.8'
 4" VALVE #1 TO 6" F.H. VALVE - 20.5'
 4" VALVE #1 TO 6" SMH-3 - 11.8'
 4" VALVE #1 TO 6" F.H. - 31.0'

TWILIGHT BEACH LANE
 4" VALVE #2 TO 6" F.H. VALVE - 19.9'
 4" VALVE #2 TO 6" F.H. - 25.5'
 4" VALVE #2 TO 6" SMH-3 - 18.0'

JUNE FLOWERS WAY
 6" F.H. VALVE TO FIRE HYDRANT - 19.9'
 6" F.H. VALVE TO SMH-3 - 20.1'
 FIRE HYDRANT TO SMH-3 - 30.3'

LEGEND
 SHC - SANITARY HOUSE CONNECTION
 WHC - WATER HOUSE CONNECTION
 SMH - SANITARY MANHOLE
 I - STORMDRAIN INLET
 M - STORMDRAIN MANHOLE
 V - WATER VALVE
 F.H. - FIRE HYDRANT

8" VALVE TO STUB LINE
 TO CONTRACT #24-4318-D
MOSSY BARK
 8" VALVE TO SMH-7 - 28.1'
 8" VALVE TO 1" WHC LOT 78 - 28.0'
 8" VALVE TO EX. VALVE - 48.4'

LOT NO.	MIN. CELLAR ELEV.	SHC INV. @ ROW/EAS/INT.	HO. CO. DETAIL NO.	SLOPE (%)
92	314.98	315.77	S2.12 (TYPE 'A')	5.00%
93	316.31	315.12	S2.12 (TYPE 'A')	5.00%
94	316.98	315.83	S2.12 (TYPE 'A')	5.00%
95	318.31	317.12	S2.12 (TYPE 'A')	5.00%
96	319.65	318.50	S2.12 (TYPE 'A')	5.00%
97	320.31	319.07	S2.12 (TYPE 'A')	5.00%
98	320.47	319.64	S2.12 (TYPE 'A') W/TWIN	5.00%
99	320.98	319.74	S2.12 (TYPE 'A') W/TWIN	5.00%
100	320.30	319.03	S2.12 (TYPE 'A') W/TWIN	5.00%
101	320.31	319.68	S2.12 (TYPE 'A') W/TWIN	5.00%
102	319.48	318.12	S2.12 (TYPE 'A')	5.00%
103	319.65	318.27	S2.12 (TYPE 'A')	5.00%
104	318.68	316.4	S2.12 (TYPE 'A') W/TWIN	5.00%
105	318.98	317.0	S2.12 (TYPE 'A') W/TWIN	5.00%
106	318.31	316.94	S2.12 (TYPE 'A')	5.00%
107	317.63	314.84	S2.12 (TYPE 'A') W/TWIN 4.50%	5.00%
108	317.65	314.9	S2.12 (TYPE 'A') W/TWIN 4.5%	5.00%
109	317.47	315.04	S2.12 (TYPE 'A') W/TWIN 4.10%	5.00%
110	317.65	315.19	S2.12 (TYPE 'A') W/TWIN 4.10%	5.00%
111	318.31	315.58	S2.12 (TYPE 'A') W/TWIN 5.00%	5.00%
112	318.49	315.50	S2.12 (TYPE 'A') W/TWIN 5.00%	5.00%
113	319.65	318.45	S2.12 (TYPE 'A')	5.00%
23	326.59 (C.N.S.)	323.69	S2.12 (TYPE 'A') W/TWIN 5.00%	5.00%
24	328.38 (C.N.S.)	325.38	S2.12 (TYPE 'A') W/TWIN 5.00%	5.00%
25	328.40 (C.N.S.)	325.50	S2.12 (TYPE 'A') W/TWIN 5.00%	5.00%

LOT NO.	MIN. CELLAR ELEV.	SHC INV. @ ROW/EAS/INT.	HO. CO. DETAIL NO.	SLOPE (%)
26	330.08 (C.N.S.)	327.08	S2.12 (TYPE 'A') W/TWIN	5.00%
27	330.11 (C.N.S.)	327.21	S2.12 (TYPE 'A') W/TWIN	5.00%
28	331.41 (C.N.S.)	328.61	S2.12 (TYPE 'A')	5.00%
29	332.14 (C.N.S.)	329.24	S2.12 (TYPE 'A')	5.00%
30	333.60 (C.N.S.)	330.50	S2.12 (TYPE 'A')	5.00%
124	337.87 (C.N.S.)	334.88	S2.12 (TYPE 'A')	5.00%
123	335.59 (C.N.S.)	332.94	S2.12 (TYPE 'A') W/TWIN	5.00%
122	335.56 (C.N.S.)	332.80	S2.12 (TYPE 'A') W/TWIN	5.00%
121	333.42 (C.N.S.)	330.80	S2.12 (TYPE 'A') W/TWIN	5.00%
120	333.39 (C.N.S.)	330.68	S2.12 (TYPE 'A') W/TWIN	5.00%
119	331.44 (C.N.S.)	328.74	S2.12 (TYPE 'A')	5.00%
118	330.00 (C.N.S.)	328.53	S2.12 (TYPE 'A')	5.00%
117	329.24 (C.N.S.)	327.81	S2.12 (TYPE 'A') W/TWIN	5.00%
116	329.33 (C.N.S.)	327.86	S2.12 (TYPE 'A') W/TWIN	5.00%
115	327.80 (C.N.S.)	326.34	S2.12 (TYPE 'A') W/TWIN	5.00%
114	328.00 (C.N.S.)	326.44	S2.12 (TYPE 'A') W/TWIN	5.00%
45	328.68 (C.N.S.)	327.30	S2.12 (TYPE 'A')	5.00%
71	328.33 (C.N.S.)	325.23	S2.12 (TYPE 'A') W/TWIN	5.00%
72	328.56 (C.N.S.)	325.36	S2.12 (TYPE 'A') W/TWIN	5.00%
73	329.47 (C.N.S.)	326.87	S2.12 (TYPE 'A') W/TWIN	5.00%
74	330.20 (C.N.S.)	327.00	S2.12 (TYPE 'A') W/TWIN	5.00%
75	331.61 (C.N.S.)	328.51	S2.12 (TYPE 'A') W/TWIN	5.00%
76	331.83 (C.N.S.)	328.63	S2.12 (TYPE 'A') W/TWIN	5.00%
77	333.38 (C.N.S.)	330.28	S2.12 (TYPE 'A') W/TWIN	5.00%
78	333.61 (C.N.S.)	330.41	S2.12 (TYPE 'A') W/TWIN	5.00%

NOTES:

- ALL 1" WHC'S AND 1/2" TWIN 1" BALL VALVES INSTALLED AT RIGHT OF WAY OR EASEMENT LINE. ALL WHC'S SHALL HAVE 3/4" INSIDE METERS.
- ALL SHC CLEANOUTS ARE 3" 4" CLEANOUTS. UNLESS OTHERWISE NOTED.
- ALL SHC'S ARE DESIGNED FOR 2% GRADE UNLESS OTHERWISE NOTED.
- ALL WHC BALL VALVES AND SHC CLEANOUTS SHOULD BE INSTALLED WITHIN A GRASSY AREA, OUTSIDE THE PAVED DRIVEWAYS WHENEVER POSSIBLE.

JUNE FLOWERS WAY

LOT 98
 WHC TO SDMH-5 - 11.8'
 WHC TO SHC LOT 98 - 21.8'
 WHC TO SHC INLET I-4 - 35.0' (M.L.I.D.)
 SHC TO SHC LOT 99 - 5.5'
 SHC TO SDMH-5 - 30.0'
 SHC TO SHC INLET I-4 - 43.9' (M.L.I.D.)

LOT 99
 SHC TO SHC INLET I-4 - 40'
 SHC TO SDMH-5 - 30.3'
 SHC TO WHC LOT 99 - 22.5'
 WHC TO WHC LOT 99 - 4.2'
 WHC TO SHC INLET I-4 - 03.0' (M.L.I.D.)

LOT 100
 WHC TO SHC LOT 100 - 18.9' (M.L.I.D.)
 WHC TO SHC INLET I-4 - 00.7' (M.L.I.D.)
 WHC TO SMH-4 - 58.5'
 SHC TO SMH-4 - 7.0'
 SHC TO SHC LOT 101 - 40.9'

LOT 101
 SHC TO WHC LOT 101 - 21.0'
 SHC TO SMH-4 - 34.7'
 WHC TO SMH-4 - 17.2'
 WHC TO WHC LOT 102 - 4.4'
 WHC TO SDMH-3 - 55.0'

LOT 102
 WHC TO SMH-4 - 14.3'
 WHC TO SDMH-3 - 52.1'
 WHC TO SHC LOT 102 - 19.0'
 SHC TO SMH-4 - 20.0'
 SHC TO SDMH-3 - 47.9'
 SHC TO SHC LOT 103 - 7.0'

LOT 103
 SHC TO SMH-4 - 19.2'
 SHC TO SDMH-3 - 41.8'
 SHC TO WHC LOT 103 - 19.0'
 WHC TO WHC LOT 104 - 4.0'
 WHC TO SMH-4 - 33.4'
 WHC TO SDMH-3 - 30.3'

LOT 104
 SHC TO SHC LOT 104 - 15.0'
 WHC TO SMH-4 - 30.9'
 WHC TO SDMH-3 - 30.4'
 SHC TO SHC LOT 105 - 0.0'
 SHC TO SMH-4 - 40.9'
 SHC TO SMH-5 - 37.4'

LOT 105
 SHC TO WHC LOT 105 - 9.0'
 SHC TO SMH-4 - 55.0'
 SHC TO SMH-5 - 32.9'
 SHC TO SHC LOT 106 - 11.3'
 WHC TO SMH-5 - 25.4'

LOT 106
 SHC TO SMH-5 - 15.7'
 SHC TO WHC LOT 106 - 23.3'
 SHC TO SMH-4 - 49.2'
 WHC TO WHC LOT 107 - 0.1'
 WHC TO SMH-5 - 17.2'

LOT 108
 SHC TO SMH-5 - 45.9' (M.L.I.D.)
 SHC TO SHC INLET I-3 - 19.5' (M.L.I.D.)
 SHC TO WHC LOT 108 - 9.9'
 WHC TO SMH-5 - 55.1'
 WHC TO WHC LOT 109 - 19.0' (M.L.I.D.)
 WHC TO SHC INLET I-3 - 10.9'

LOT 109
 WHC TO SHC LOT 109 - 9.5'
 WHC TO SMH-5 - 83.5'
 SHC TO SHC LOT 110 - 0.9' (M.L.I.D.)
 SHC TO SHC LOT 112 - 5.0'

LOT 110
 SHC TO SHC INLET I-3 (M.L.I.D.) - 28.0'
 SHC TO WHC LOT 110 - 21.9'
 SHC TO SMH-5 - 39.3'
 WHC TO SHC LOT 109 - 7.0'
 SHC TO SHC INLET I-3 - 20.3' (M.L.I.D.)

LOT 111
 WHC TO SHC LOT 111 - 23.0'
 WHC TO SMH-5 - 00.3'
 WHC TO 6" F.H. VALVE - 40.5'
 SHC TO 6" F.H. VALVE - 29.0'
 SHC TO SMH-5 - 43.8'
 SHC TO SHC LOT 112 - 5.0'

LOT 112
 SHC TO 6" F.H. VALVE - 27.4'
 SHC TO WHC LOT 112 - 17.8'
 SHC TO SMH-5 - 20.9'
 WHC TO 6" F.H. VALVE - 28.1'
 WHC TO SMH-5 - 23.0'
 WHC TO WHC LOT 113 - 4.8'

LOT 113
 WHC TO SHC LOT 113 - 14.7'
 WHC TO SMH-5 - 18.8'
 WHC TO 6" F.H. VALVE - 28.1'
 SHC TO SMH-5 - 12.5'
 SHC TO SHC LOT 113 - 44.5'

LOT 114
 WHC TO SHC LOT 114 - 14.7'
 WHC TO SMH-5 - 18.8'
 WHC TO 6" F.H. VALVE - 28.1'
 SHC TO SMH-5 - 12.5'
 SHC TO SHC LOT 114 - 44.5'

LOT 115
 WHC TO SHC LOT 115 - 14.7'
 WHC TO SMH-5 - 18.8'
 WHC TO 6" F.H. VALVE - 28.1'
 SHC TO SMH-5 - 12.5'
 SHC TO SHC LOT 115 - 44.5'

NOTE: SEE SHEET 3 OF 4 FOR REMAINDER OF LOT HOUSE CONNECTION LOCATIONS

STATE OF MARYLAND
 BOARD OF PROFESSIONAL ENGINEERS
 BRITAIN & MASTERS
 LICENSE NO. 32589
 PROFESSIONAL ENGINEER

AS BUILT
 DATE: MAY 29, 2007

DEVELOPER
 EMERSON II BUILDERS @ EMERSON II
 1070 CHARTER DRIVE, SUITE 320
 COLUMBIA, MARYLAND 21144
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 FAX: (410) 997-5305

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

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 christopher consultants, llc
 7170 colchester greenway drive suite 100 - colchester, md 21046-2800
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Ralph Benner 10-4-06
 CHIEF, BUREAU OF UTILITIES

Michael Benner 10/26/06
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

DES:	KWS
DRN:	AJK
CHK:	BAM
DATE:	SEPT. 2008
BY:	NO.
REVISION:	
DATE:	

LOT NUMBER UPDATES	1/1/10
COMBINED CONTRACT 24-432D WITH THIS CONTRACT	1/1/10
REVISION	
DATE	

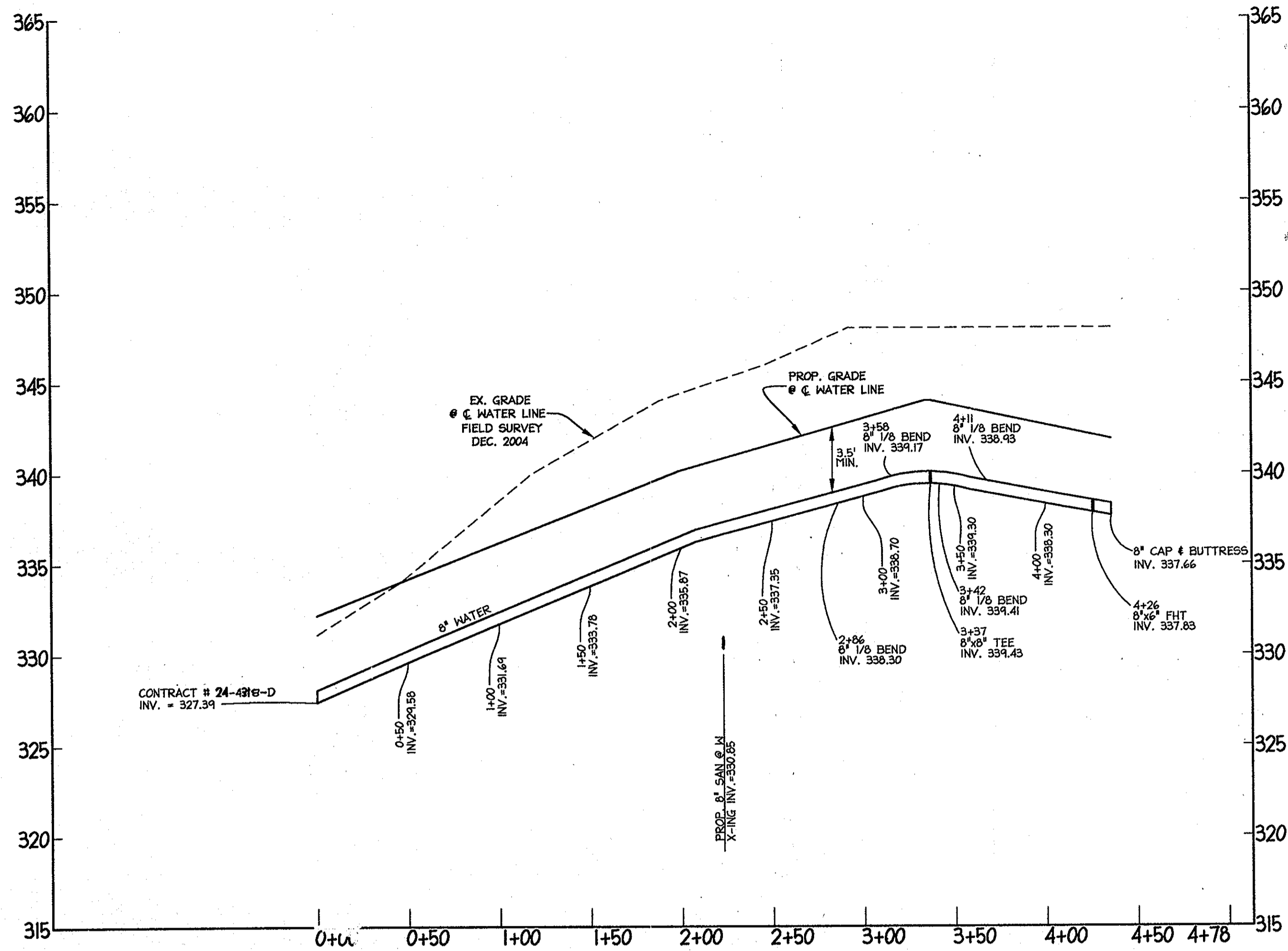
PLAN OF
WATER and SEWER EXTENSIONS
 STUART-KRUP

600 SCALE MAP NO. 47 BLOCK NO. 39

WATER and SEWER EXTENSIONS
 A RESUBDIVISION OF PARCEL A-1 and B-1
EMERSON LOTS 45-09, OPEN SPACE LOTS 90, 91
 SECTION 2 PHASE 6A LOTS 92-124, OPEN SPACE LOTS 125-127
 CONTRACT NO. 24-4318-D

AX MAP 47
 ZONE M-10-S
 HOWARD COUNTY, MARYLAND

SCALE 1"=50'
 SHEET 3 OF 7



AS-BUILT LOCATIONS
 1- FOR AS-BUILT LEGEND SEE SHEET 2 OF 4
 2- LOT 71 TO LOT 78 - UTILITIES WERE CONSTRUCTED UNDER CONTRACT #24-4318-D

LOT 71
 WHC TO 8" INLET I-7 MANHOLE LID - 23.7'
 WHC TO SHC LOT 71 - 27.3'
 WHC TO 8" VALVE (SCENTLESS ROSE WAY) - 57.5'
 SHC TO SHC LOT 72 - 5.3'
 SHC TO 8" INLET I-7 MANHOLE LID - 49.5'
 SHC TO 8" VALVE (SCENTLESS ROSE WAY) - 84.4'

LOT 72
 SHC TO WHC LOT 72 - 19.0'
 SHC TO 8" VALVE (SCENTLESS ROSE WAY) - 89.3'
 SHC TO 8" INLET I-7 MANHOLE LID - 54.3'
 WHC TO WHC LOT 73 - 5.0'
 WHC TO 8" INLET I-7 MANHOLE LID - 73.2'

LOT 73
 WHC TO SHC LOT 73 - 19.0'
 WHC TO 8" INLET I-7 MANHOLE - 78.3'
 SHC TO SHC LOT 74 - 0.3'
 SHC TO WHC LOT 25 - 50.0'
 SHC TO WHC LOT 20 - 51.2'

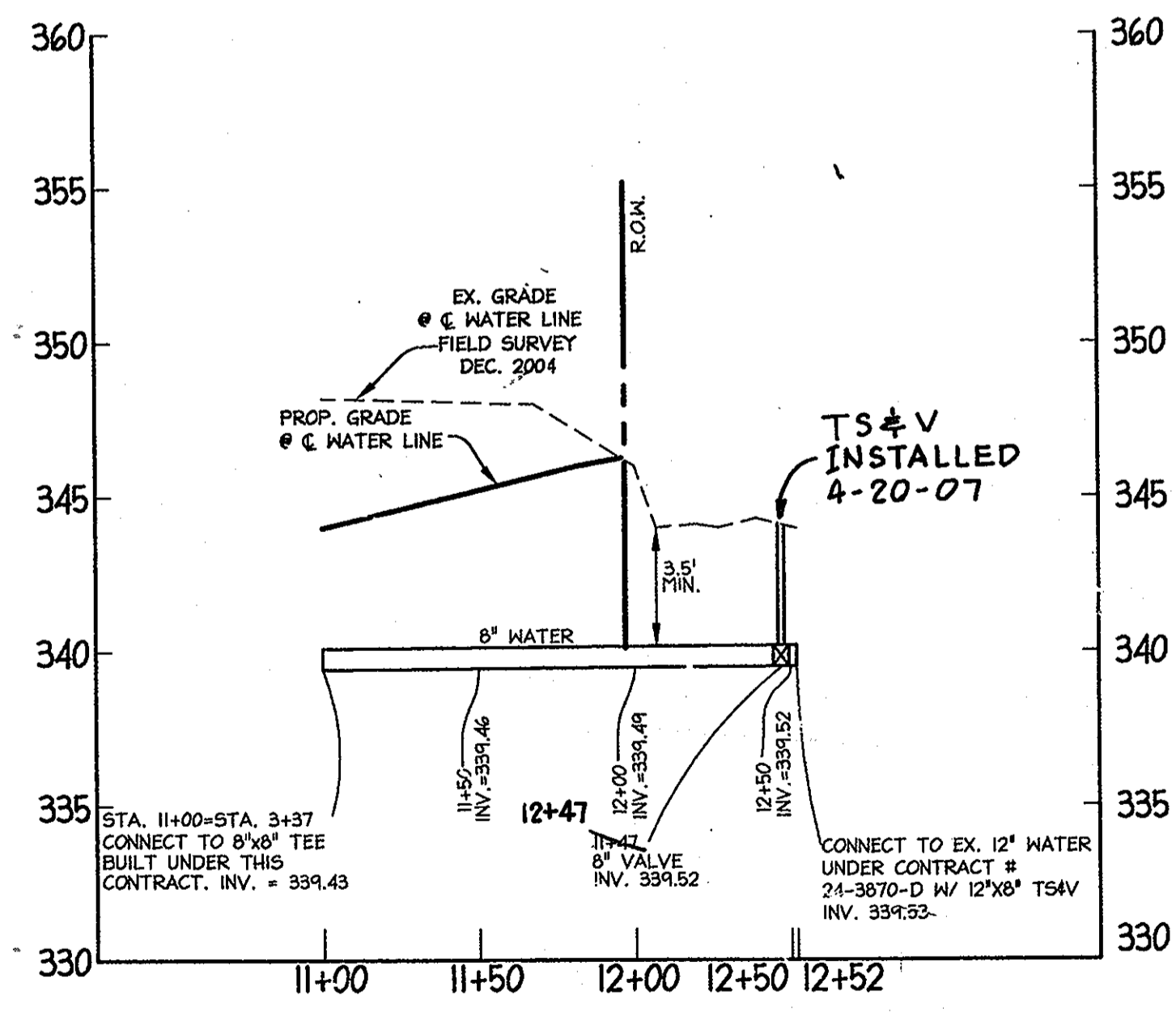
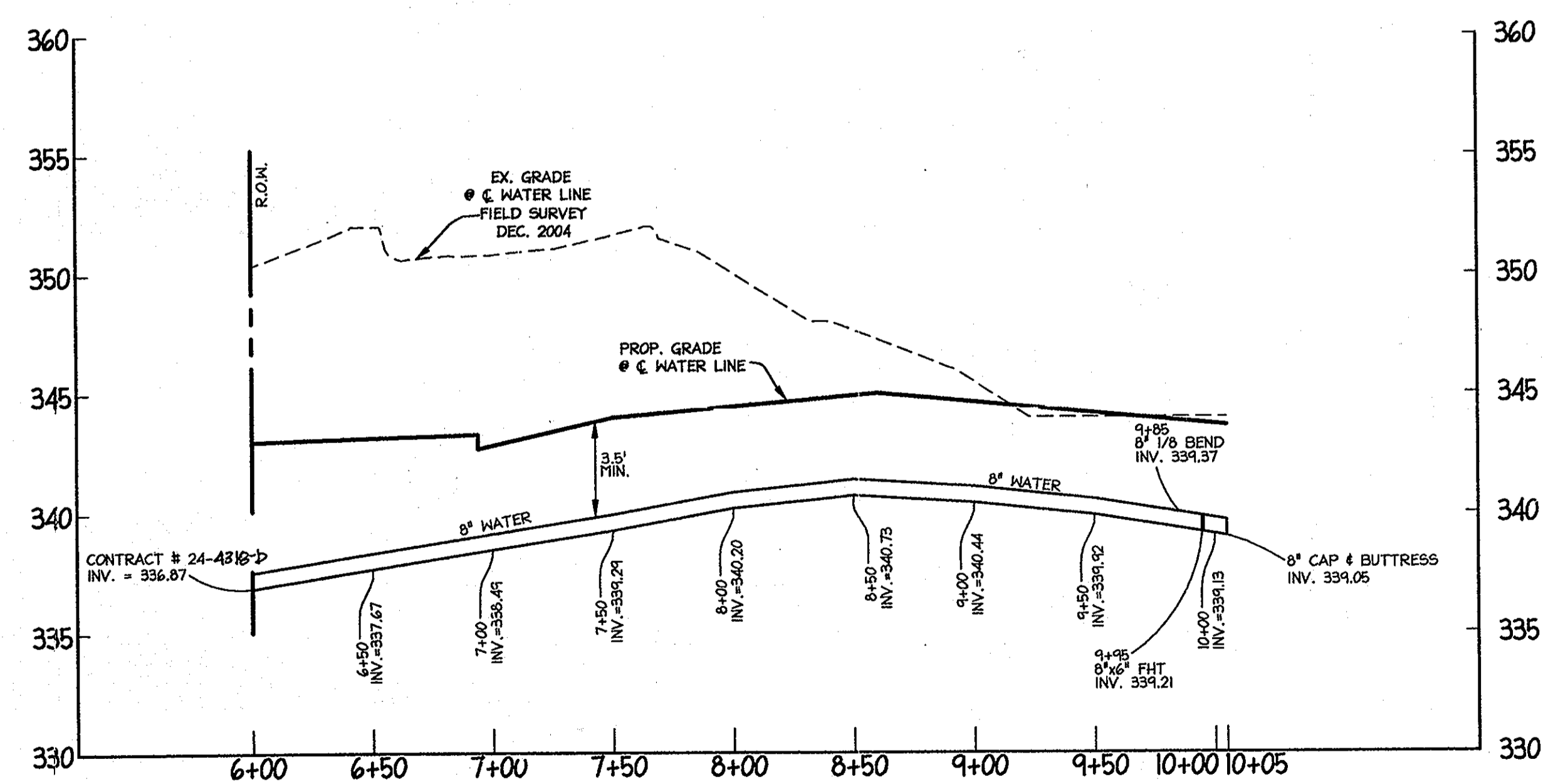
LOT 74
 SHC TO WHC LOT 74 - 10.3'
 SHC TO WHC LOT 20 - 49.7'
 SHC TO WHC LOT 20 - 52.0'
 WHC TO WHC LOT 75 - 8.0'
 WHC TO SHC LOT 20 - 51.0'

LOT 75
 WHC TO SHC LOT 75 - 19.0'
 WHC TO WHC LOT 27 - 53.3'
 SHC TO SHC LOT 70 - 4.5'
 SHC TO WHC LOT 28 - 51.2'

LOT 76
 SHC TO WHC LOT 76 - 22.5'
 SHC TO WHC LOT 28 - 49.0'
 WHC TO WHC LOT 77 - 5.9'
 WHC TO SMH 7 - 83.4'
 WHC TO 8" VALVE (#24-4318-D) - 84.0'
 TO MOSSY BARK LANE

LOT 77
 WHC TO SHC LOT 77 - 20.0'
 WHC TO SMH 7 - 78.1'
 WHC TO 8" VALVE TO MOSSY BARK LANE - 78.9'
 SHC TO SHC LOT 78 - 3.2'
 SHC TO 8" VALVE - 59.0'
 SHC TO SMH 7 - 60.4'

LOT 78
 SHC TO WHC LOT 78 - 29.0'
 SHC TO SMH 7 - 57.3'
 SHC TO 8" VALVE - 57.5'
 WHC TO 8" VALVE - 28.0'
 WHC TO SMH 7 - 37.9'



AS BUILT
 DATE: MAY 29, 2007



DEVELOPER
 WILLIAMSBURG GROUP, LLC
 5485 HARPER'S FARM ROAD
 P.O. BOX 1018
 COLUMBIA, MD 21044
 TEL (410) 997-8800
 FAX (410) 997-4358

PROFILE SCALE
 HORIZ: 1"=50'
 VERT: 1"=5'

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 R. J. B. Berman 10-4-06
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
 [Signature] 10/24/06
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

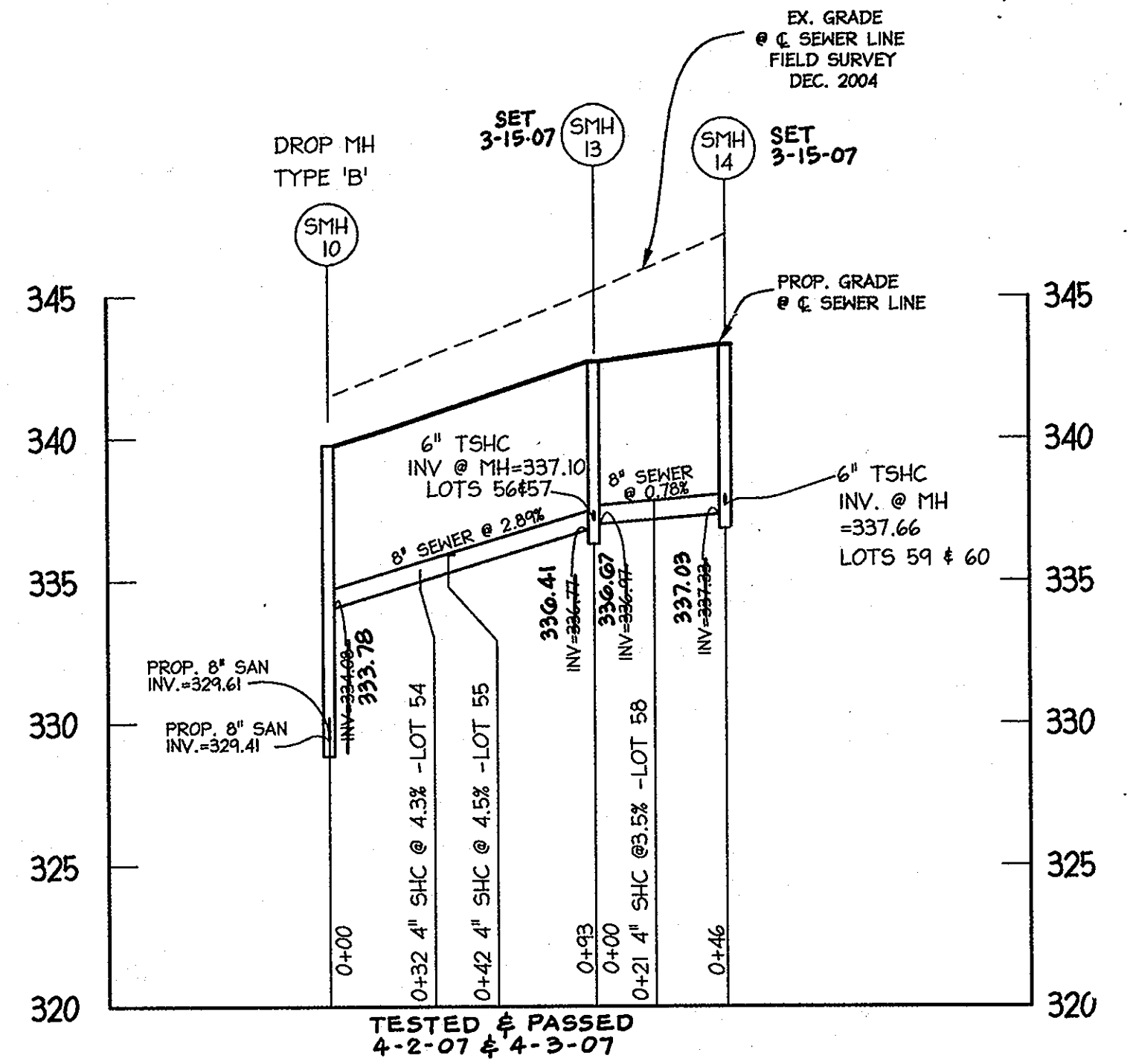
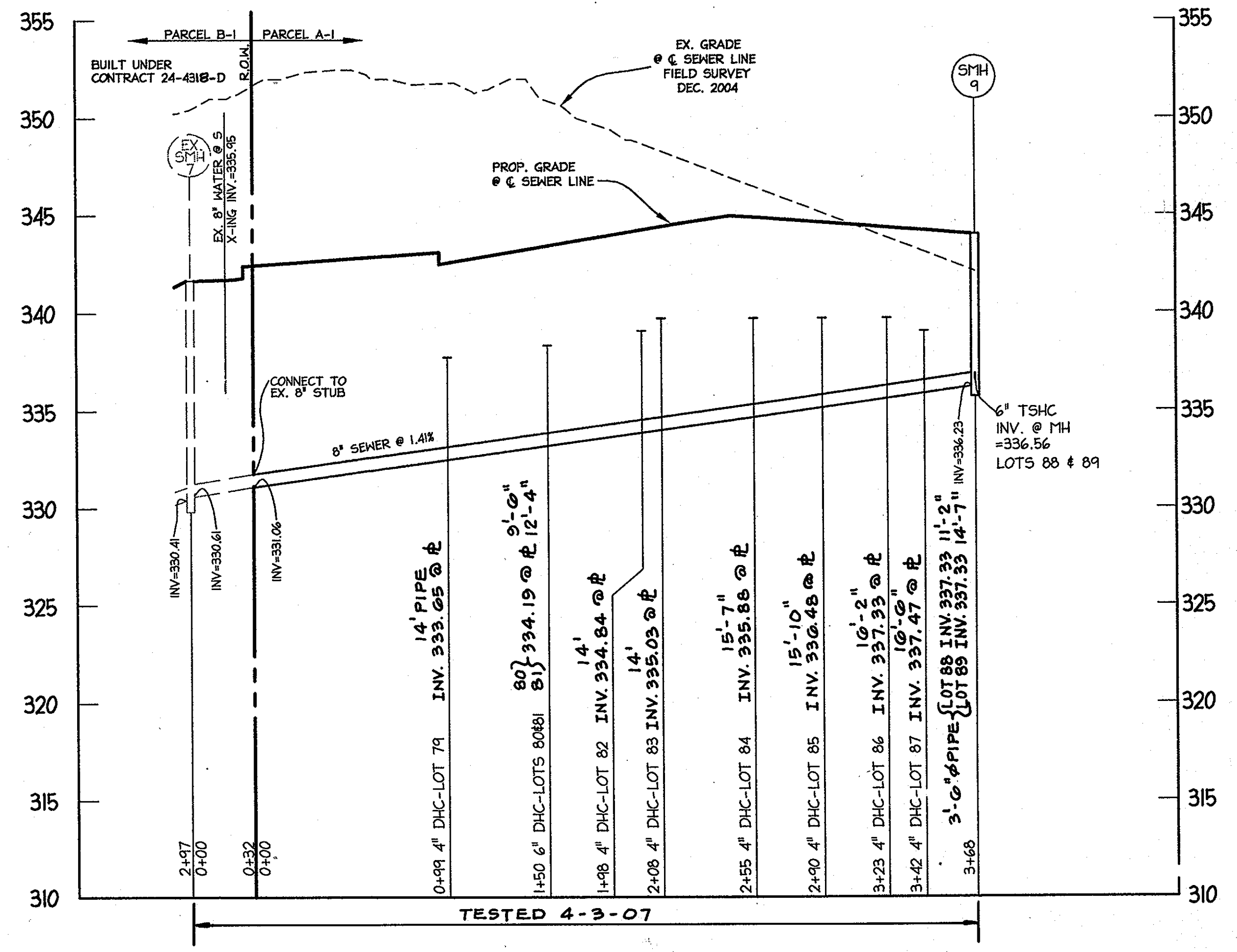
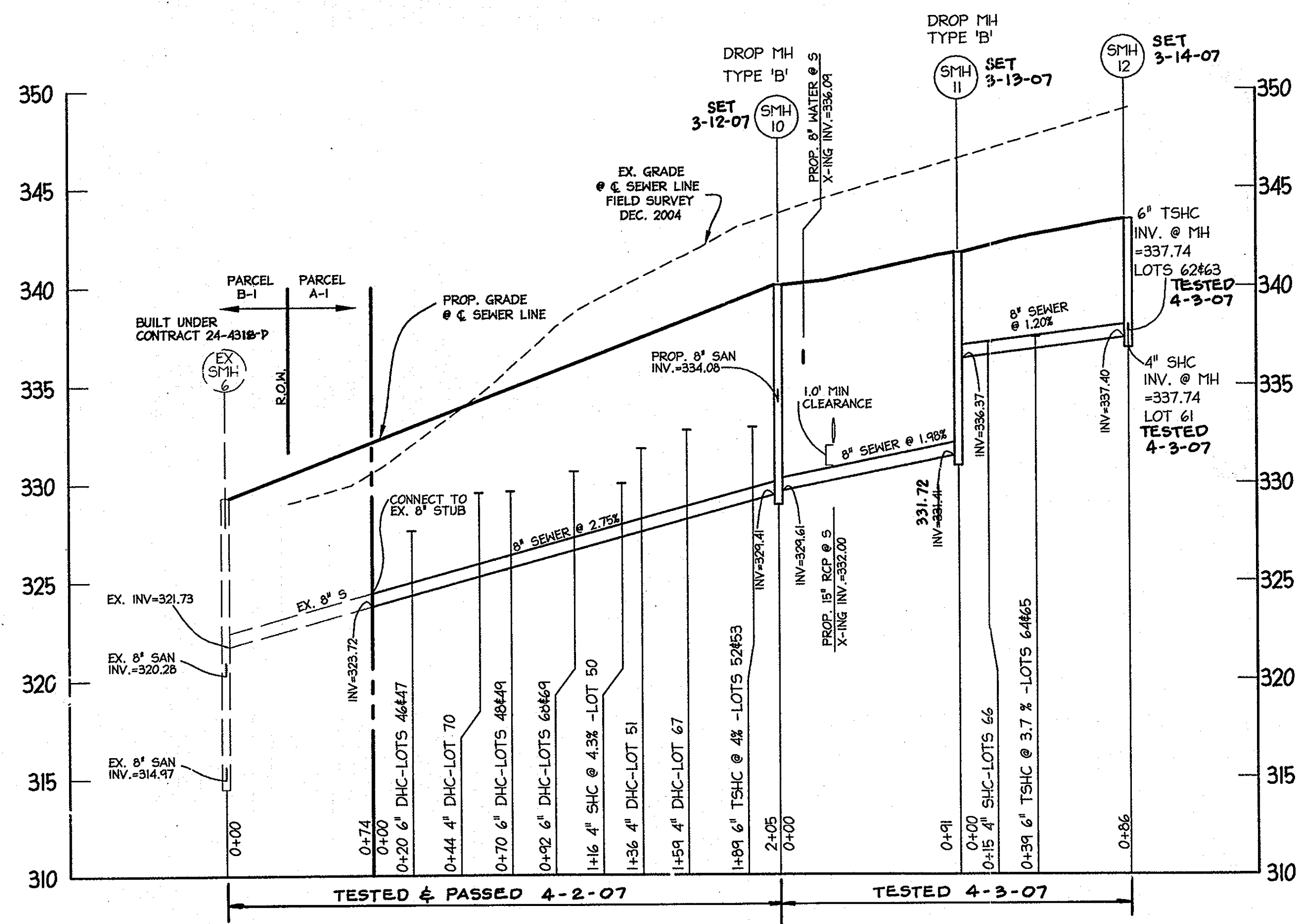
christopher consultants
 engineering - surveying - land planning
 christopher consultants, llc
 7172 columbia gateway drive (Suite 100) columbia, md 21046-2900
 410.320.9600 • www.christopherconsultants.com • fax 410.320.2880

DES:	KWS				
DRN:	AJK				
CHK:	BAM	CRH	2	LOT NUMBER UPDATES	11/11/11
DATE:	SEPT. 2006	END	1	COMBINED CONTRACT 24-4318-D W/ THIS CONTRACT	11/11/11
BY:		NO.		REVISION	DATE

PROFILES OF WATER EXTENSIONS
 WILLIAMSBURG
 800 SCALE MAP NO. 47 BLOCK NO. 889

WATER and SEWER EXTENSIONS
 A RESUBDIVISION OF PARCEL 'A-1' AND 'B-1'
EMERSON LOTS 92-124, OPEN SPACE LOTS 125-127
 SECTION 2 PHASE 6A LOTS 45-89, OPEN SPACE LOTS 90, 91
 CONTRACT NO. 24-4318-D
 TAX MAP 47 ZONE: MXD-3
 8th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 4 OF 7



STRUCTURE SCHEDULE					
STRUCTURE	TYPE	NORTHING	EASTING	TOP	REMARKS
SMH 9	4'-0" DIA. MANHOLE	N 536,630.49	E 1,353,541.16	344.00	HO. CO. STD. MANHOLES DETAIL G5.12
SMH 10	4'-0" DIA. MANHOLE	N 536,351.72	E 1,353,696.78	340.06	HOCO STD MANHOLE DETAIL NO. S1.32 TYPE "B"
SMH 11	4'-0" DIA. MANHOLE	N 536,406.28	E 1,353,624.14	341.70	HOCO STD MANHOLE DETAIL NO. S1.32 TYPE "B"
SMH 12	4'-0" DIA. MANHOLE	N 536,474.56	E 1,353,675.78	343.39	HO. CO. STD. MANHOLES DETAIL G5.12
SMH 13	4'-0" DIA. MANHOLE	N 536,425.71	E 1,353,752.83	342.71	HO. CO. STD. MANHOLES DETAIL G5.12
SMH 14	4'-0" DIA. MANHOLE	N 536,468.47	E 1,353,736.74	343.31	HO. CO. STD. MANHOLES DETAIL G5.12



AS BUILT
DATE: MAY 29, 2007

PROFILE SCALE
HORIZ: 1"=50'
VERT: 1"=5'

DEVELOPER
WILLIAMSBURG GROUP, L.L.C.
5485 HARPER'S FARM ROAD
P.O. BOX 1018
COLUMBIA, MD 21044
TEL. (410) 997-8677
FAX (410) 997-4358

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Rita B... 10-4-06
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
... 10/4/06
CHIEF DEVELOPER

christopher consultants
engineering - surveying - land planning
1775 Columbia Gateway Drive Suite 1000 Columbia, MD 21046-2000
410.270.8800 fax 410.270.8118 www.cristopher.com



DES:	KWS				
DRN:	AJK				
CHK:	BAM	CFH	2	LOT NUMBER UPDATES	11/11/11
DATE:	SEPT. 2008	6-5	1	COMBINED CONTRACT 24-4832-D WITHS CONTRACT	11/11/11
BY:			NO.	REVISION	DATE

PROFILES OF
SEWER EXTENSIONS
WILLIAMSBURG
600 SCALE MAP NO. 47 BLOCK NO. 839

WATER and SEWER EXTENSIONS
A RESUBDIVISION OF PARCEL 'A-1' AND 'B-1'
EMERSON LOTS 92-124, OPEN SPACE LOTS 125-127
SECTION 2 PHASE 6A LOTS 45-89, OPEN SPACE LOTS 90, 91
CONTRACT NO. 24-4318-D
SCALE AS SHOWN
SHEET 5 OF 7

AS-BUILT HOUSE LOCATIONS

SCENTLESS ROSE WAY

- | | |
|----------------------------|----------------------------|
| LOT 23 | LOT 24 |
| SHC TO 8" VALVE #1 - 69.3' | WHC TO 8" VALVE #1 - 97.2' |
| SHC TO WHC LOT 23 - 21.0' | WHC TO SHC LOT 24 - 17.0' |
| SHC TO F.H. - 41.7' | WHC TO SHC LOT 71 - 51.2' |
| WHC TO WHC LOT 24 - 9.0' | SHC TO SHC LOT 25 - 7.5' |
| WHC TO INLET I-6 - 40.8' | SHC TO SHC LOT 72 - 50.8' |
| (M.H.L.D.) | SHC TO SHC LOT 71 - 53.8' |
| WHC TO 8" VALVE #1 - 88.8' | WHC TO INLET I-6 - 55.7' |
| WHC TO F.H. - 02.8' | (M.H.L.D.) |

- | | |
|---------------------------|---------------------------|
| LOT 25 | LOT 26 |
| SHC TO WHC LOT 25 - 18.0' | WHC TO SHC LOT 26 - 18.0' |
| SHC TO SHC LOT 72 - 54.3' | WHC TO WHC LOT 74 - 53.8' |
| SHC TO WHC LOT 72 - 50.4' | WHC TO SHC LOT 74 - 49.9' |
| WHC TO WHC LOT 26 - 8.5' | SHC TO SHC LOT 27 - 5.8' |
| WHC TO SHC LOT 73 - 50.1' | SHC TO WHC LOT 74 - 52.4' |

- | | |
|---------------------------|---------------------------|
| LOT 27 | LOT 28 |
| SHC TO WHC LOT 27 - 18.0' | WHC TO SHC LOT 28 - 19.0' |
| SHC TO SHC LOT 75 - 52.5' | WHC TO WHC LOT 28 - 19.0' |
| SHC TO WHC LOT 75 - 52.5' | WHC TO WHC LOT 28 - 19.0' |
| WHC TO WHC LOT 28 - 8.4' | SHC TO SHC LOT 29 - 19.0' |
| WHC TO SHC LOT 76 - 49.8' | SHC TO SMH 7 - 83.3' |
| WHC TO WHC LOT 76 - 58.0' | SHC TO WHC LOT 76 - 52.0' |

- | | |
|--------------------------------|---------------------------|
| LOT 29 | LOT 30 |
| SHC TO WHC LOT 29 - 12.2' | WHC TO SHC LOT 30 - 10.0' |
| SHC TO SMH 7 - 05.0' | WHC TO SMH 7 - 44.7' |
| WHC TO SMH 7 - 53.0' | WHC TO 8" VALVE * - 05.0' |
| WHC TO WHC LOT 30 - 9.0' | SHC TO SMH 7 - 31.9' |
| SHC TO 8" VALVE * - 84.5' | SHC TO 8" VALVE * - 50.0' |
| WHC TO 8" VALVE * - 73.3' | |
| * 8" VALVE TO CONT. #24-4318-D | |

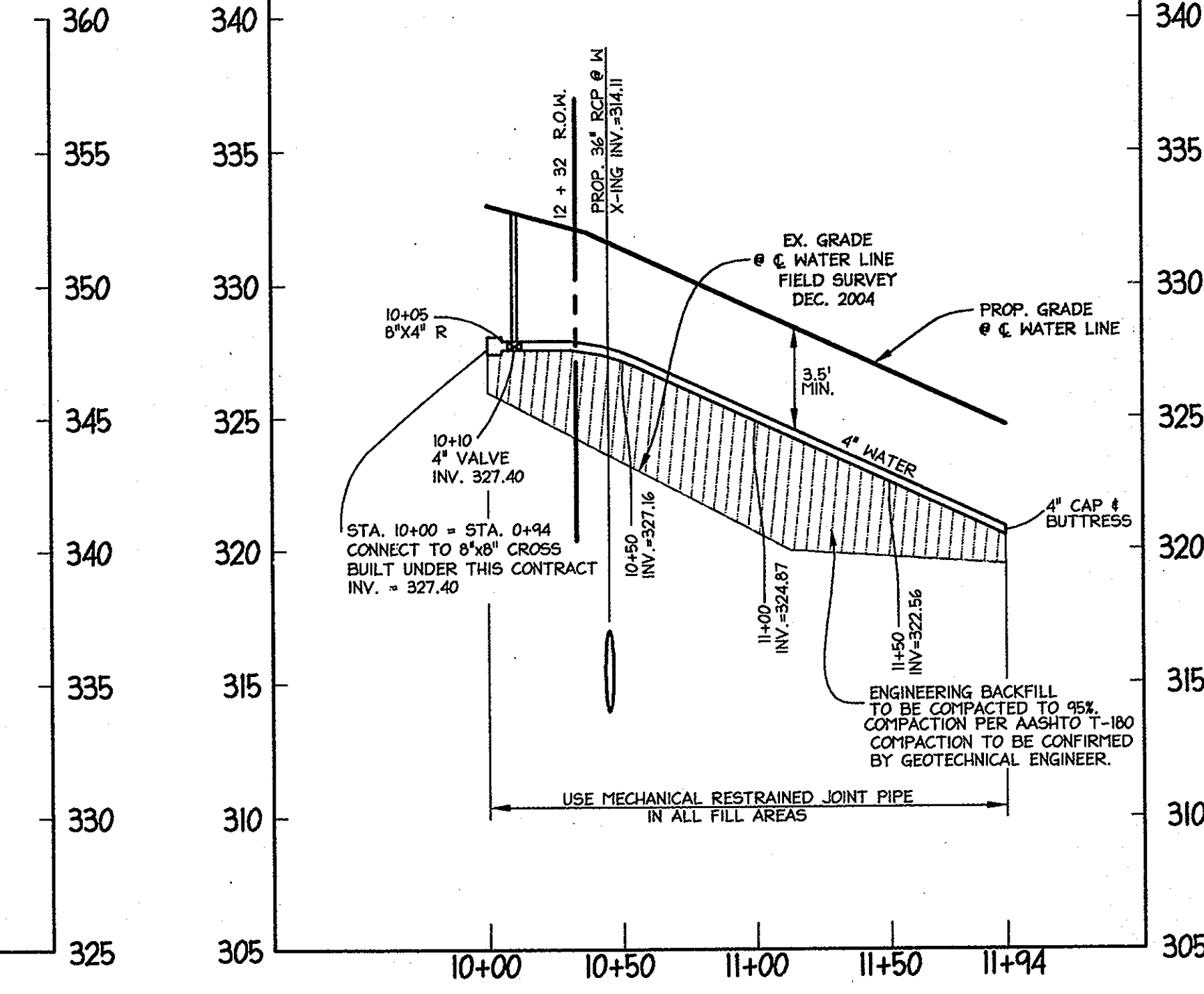
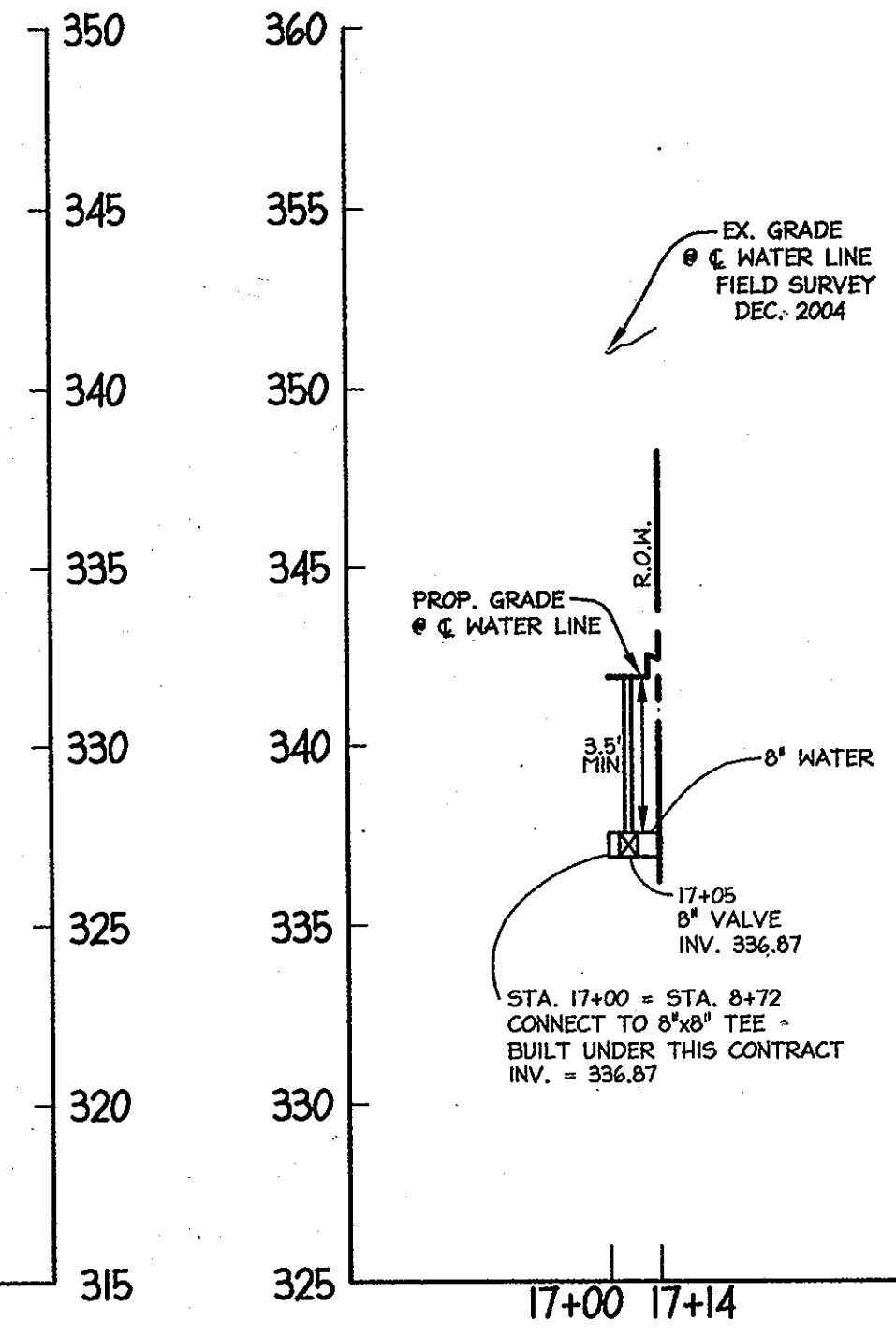
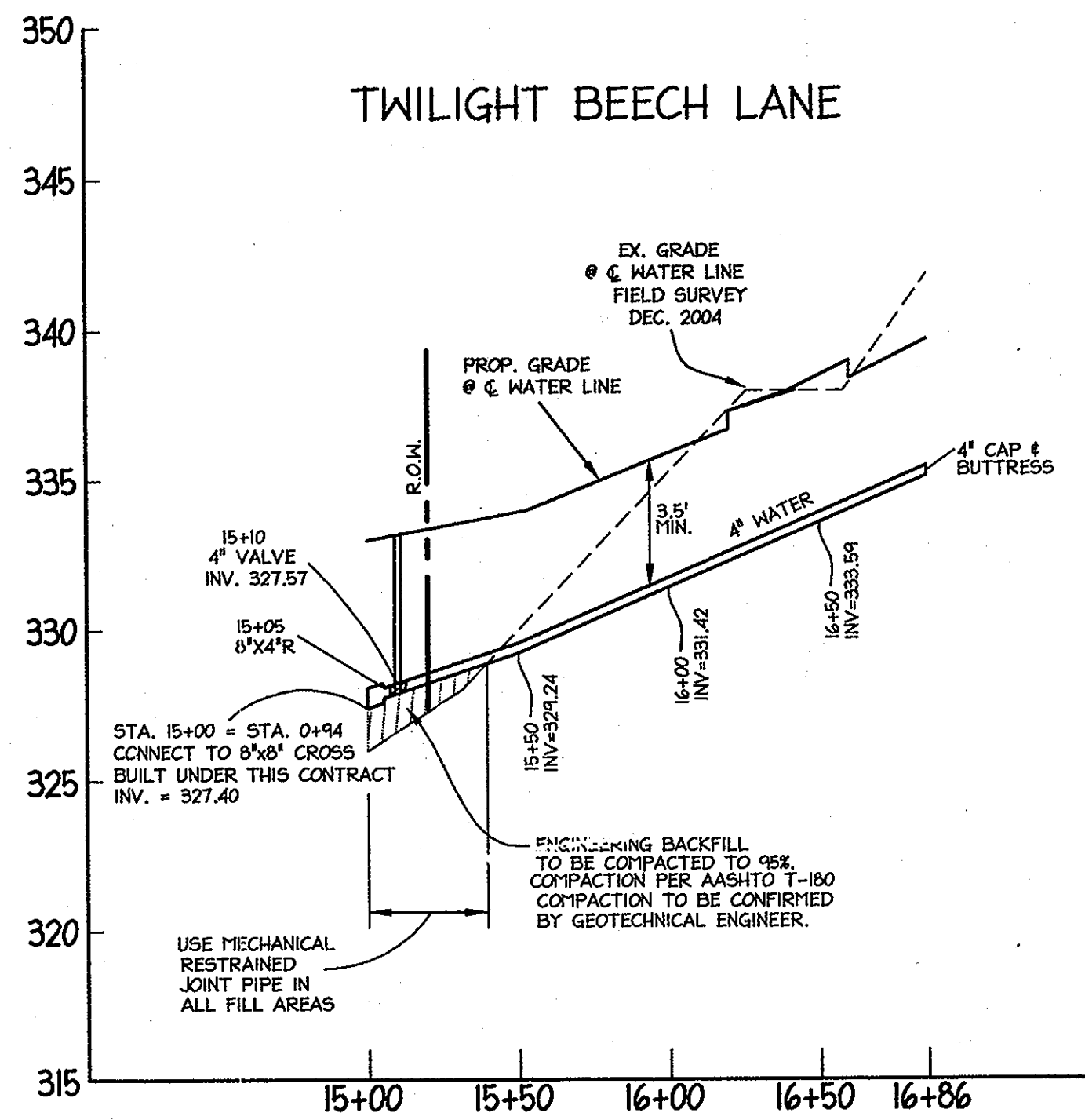
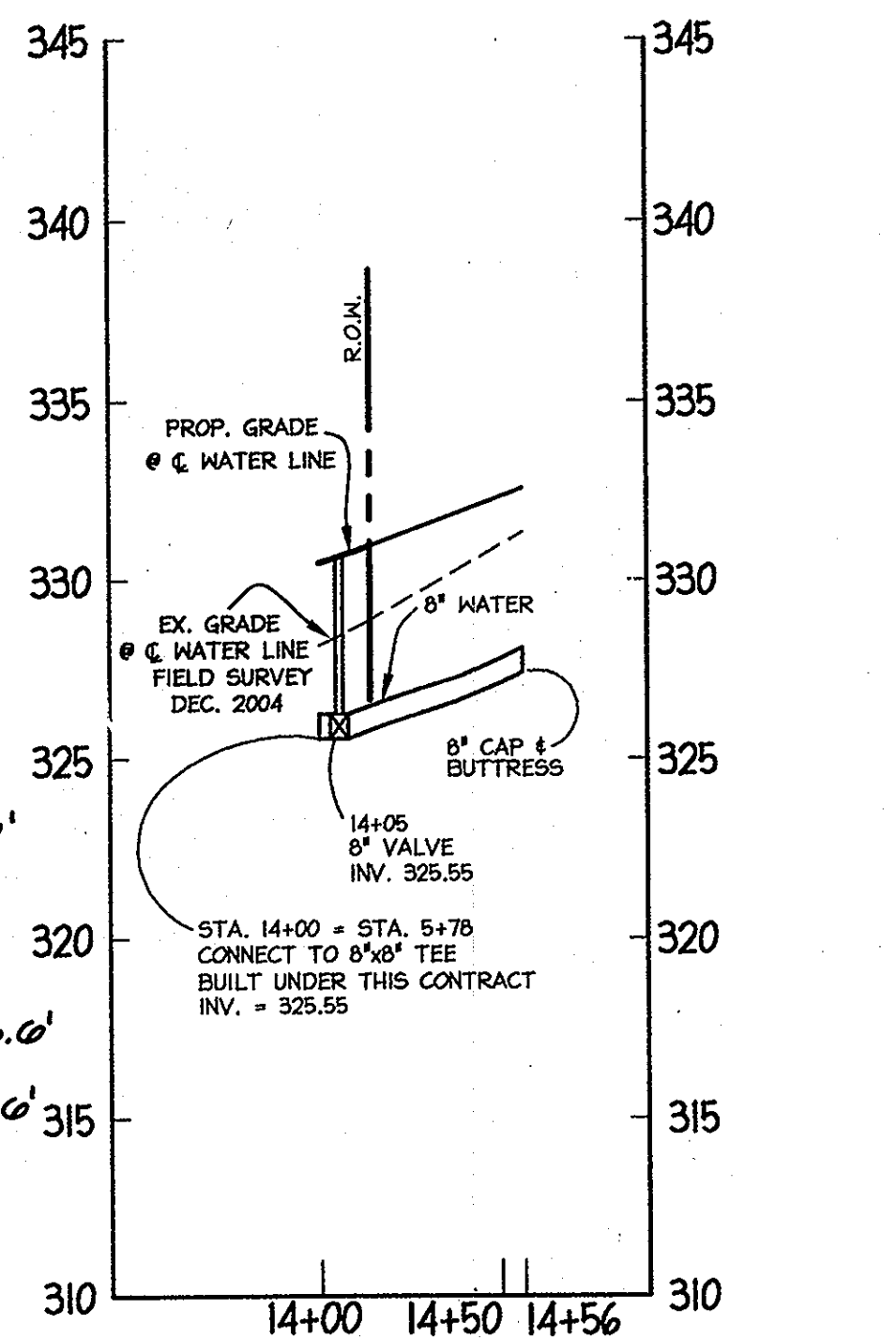
NOTE: LOTS 71 TO 78 ARE IN CONTRACT #24-4318-D BUT CONNECTIONS ARE UNDER THIS CONTRACT.

- | | |
|----------------------------|----------------------------|
| LOT 71 | LOT 72 |
| WHC TO INLET I-7 - 23.7' | SHC TO WHC LOT 72 - 19.0' |
| (M.H.L.D.) | SHC TO 8" VALVE #1 - 89.3' |
| WHC TO SHC LOT 71 - 27.3' | WHC TO INLET I-7 - 54.3' |
| WHC TO 8" VALVE #1 - 57.5' | (M.H.L.D.) |
| SHC TO SHC LOT 72 - 5.3' | WHC TO WHC LOT 73 - 5.0' |
| SHC TO INLET I-7 - 49.5' | WHC TO INLET I-7 - 73.2' |
| (M.H.L.D.) | (M.H.L.D.) |
| SHC TO 8" VALVE #1 - 84.4' | |

- | | |
|---------------------------|---------------------------|
| LOT 73 | LOT 74 |
| WHC TO SHC LOT 73 - 19.0' | SHC TO WHC LOT 74 - 10.3' |
| WHC TO INLET I-7 - 78.3' | SHC TO WHC LOT 26 - 49.7' |
| (M.H.L.D.) | SHC TO WHC LOT 26 - 52.0' |
| SHC TO SHC LOT 74 - 0.3' | WHC TO WHC LOT 75 - 8.0' |
| SHC TO WHC LOT 25 - 50.0' | WHC TO SHC LOT 26 - 51.0' |
| SHC TO WHC LOT 26 - 51.2' | |

- | | |
|---------------------------|----------------------------|
| LOT 75 | LOT 76 |
| WHC TO SHC LOT 75 - 19.0' | SHC TO WHC LOT 76 - 22.5' |
| WHC TO WHC LOT 27 - 53.3' | SHC TO WHC LOT 28 - 49.0' |
| SHC TO SHC LOT 76 - 4.5' | WHC TO WHC LOT 77 - 5.9' |
| SHC TO WHC LOT 28 - 51.2' | WHC TO SMH 7 - 83.4' |
| | WHC TO 8" VALVE * - 84.0' |
| | * 8" V TO CONT. #24-4318-D |

- | | |
|---|---------------------------|
| LOT 77 | LOT 78 |
| WHC TO SHC LOT 77 - 20.0' | SHC TO WHC LOT 78 - 29.0' |
| WHC TO SMH 7 - 78.1' | SHC TO SMH 7 - 57.3' |
| WHC TO 8" VALVE * - 78.9' | SHC TO 8" VALVE * - 57.5' |
| SHC TO SHC LOT 78 - 3.2' | WHC TO 8" VALVE * - 28.0' |
| SHC TO 8" VALVE * - 59.0' | WHC TO SMH 7 - 37.9' |
| SHC TO SMH 7 - 00.4' | |
| * 8" VALVE TO CONTRACT #24-4318-D (R/W) | |
| (MOSSY BARK LANE) | |

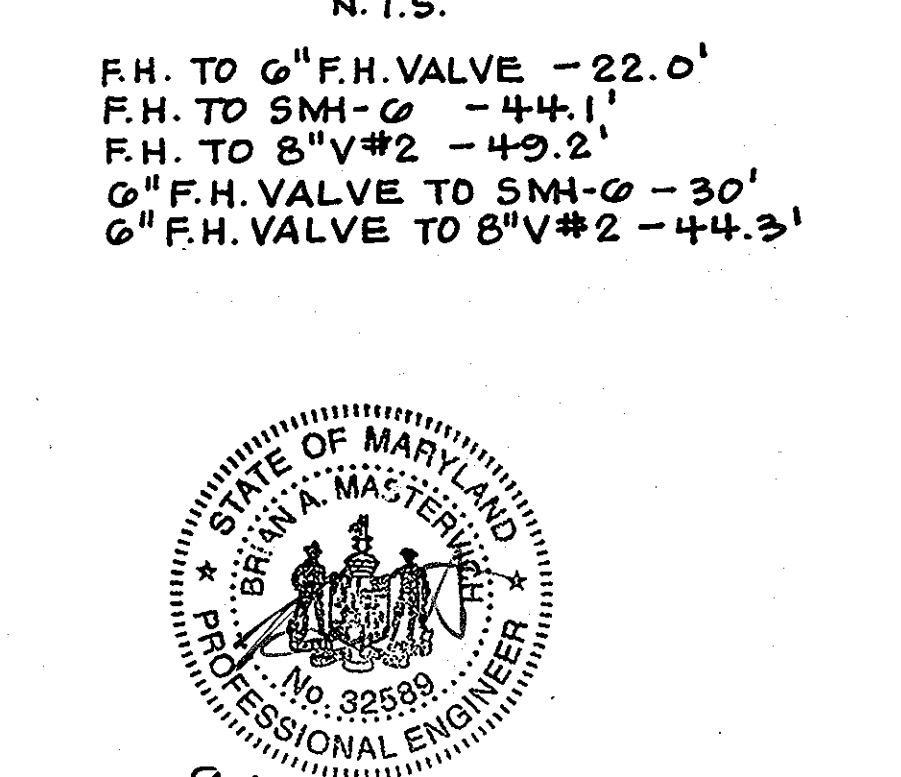
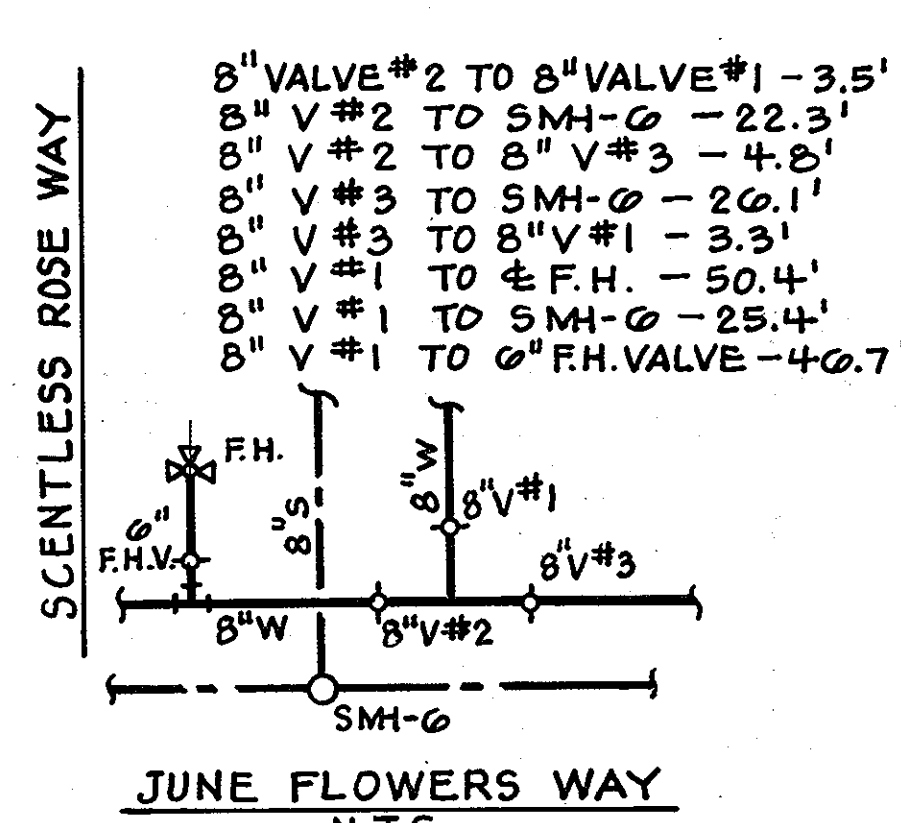
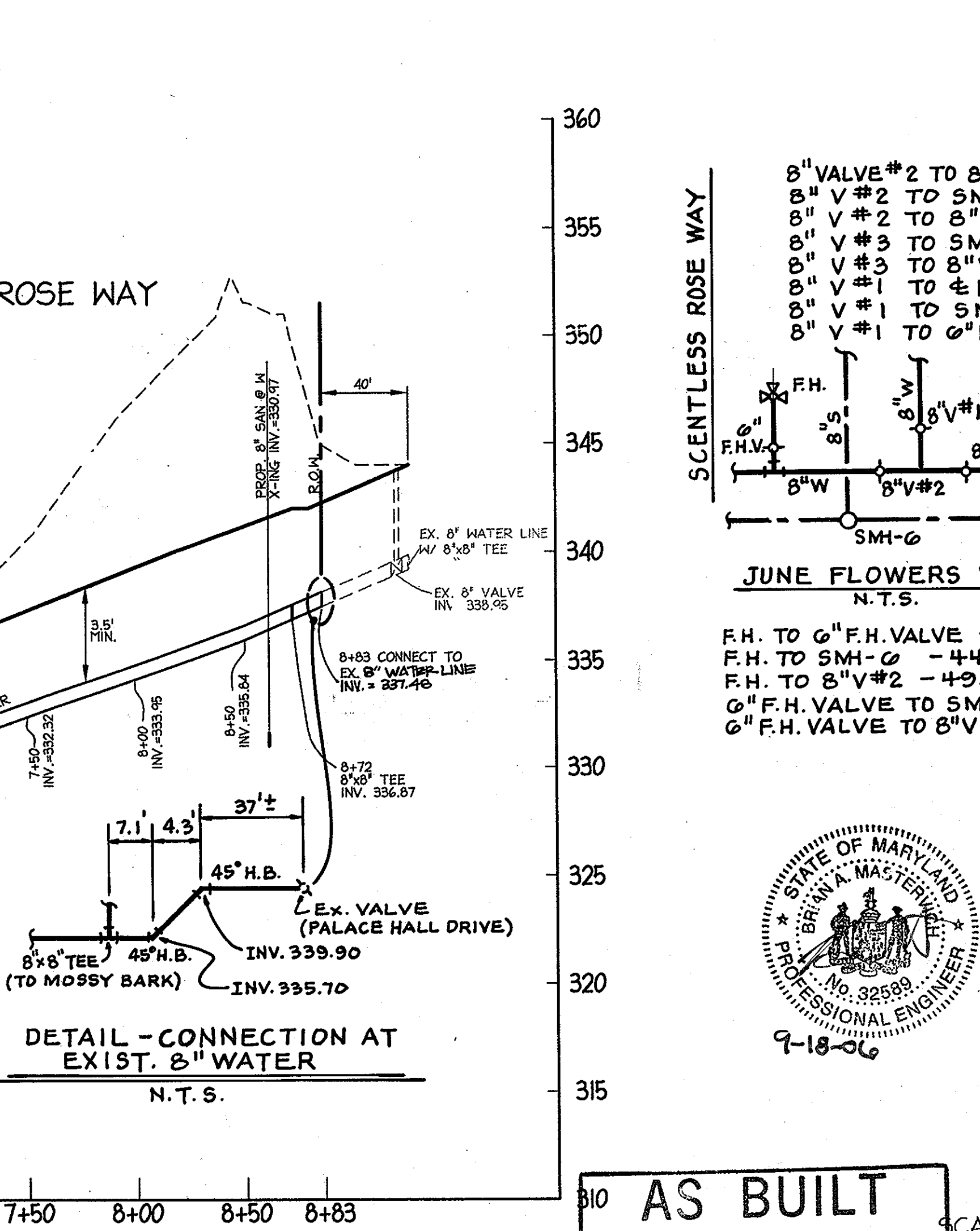
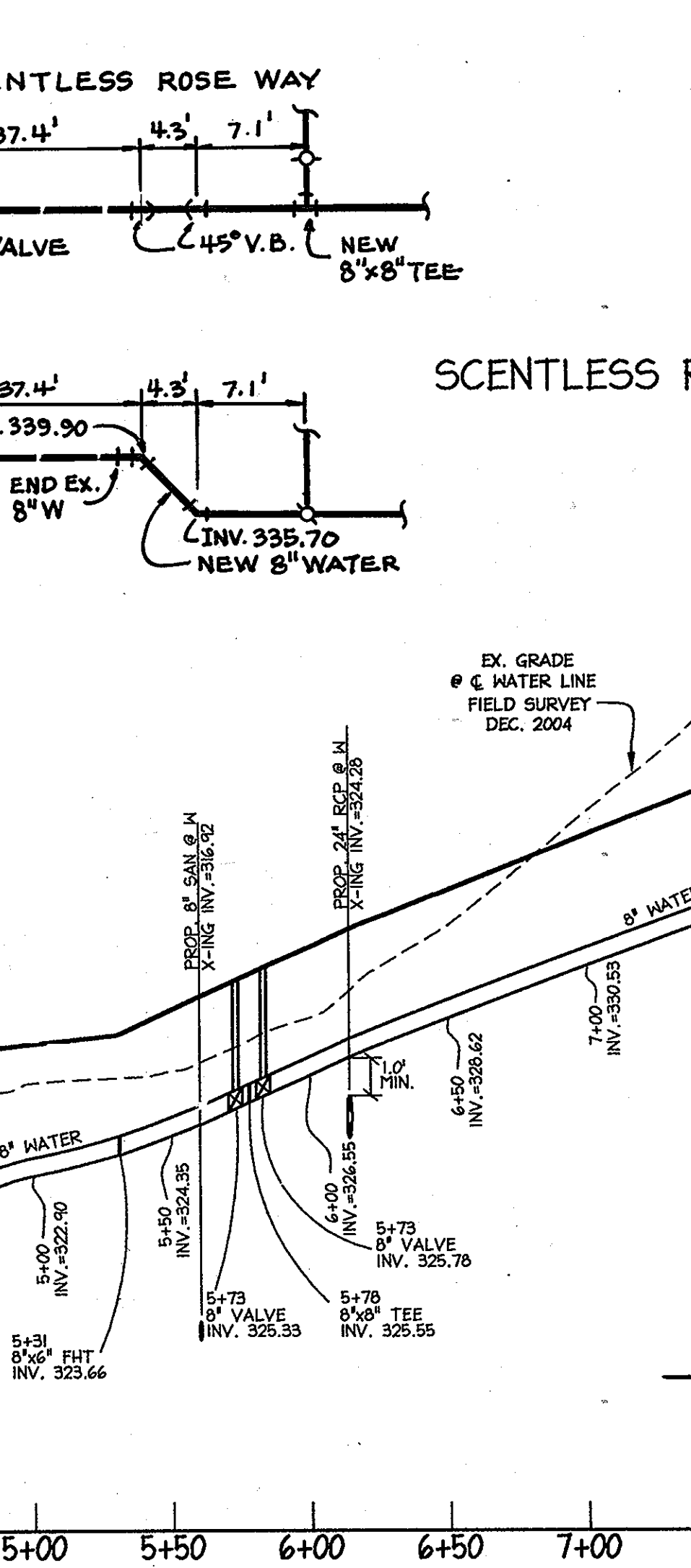
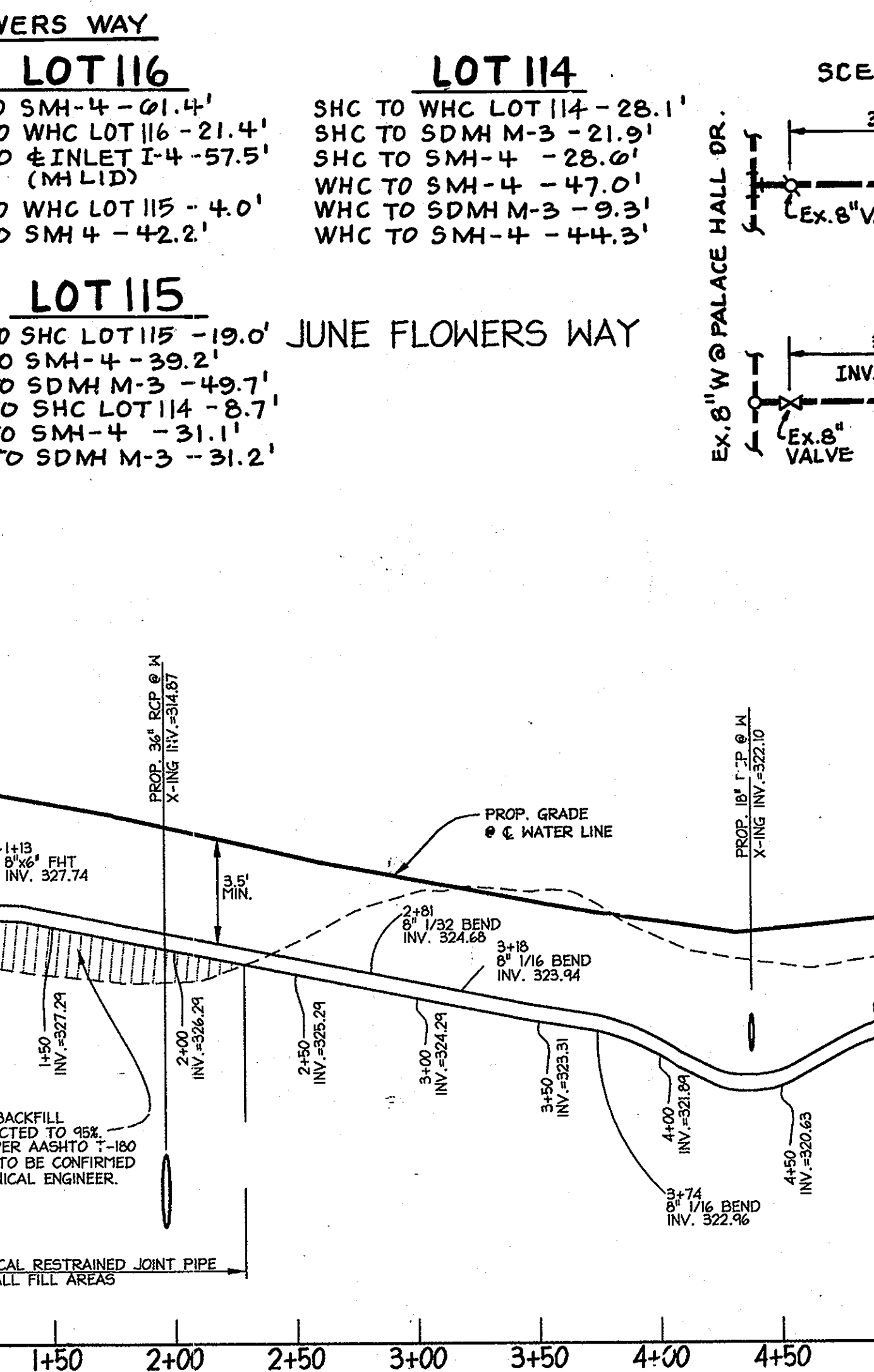
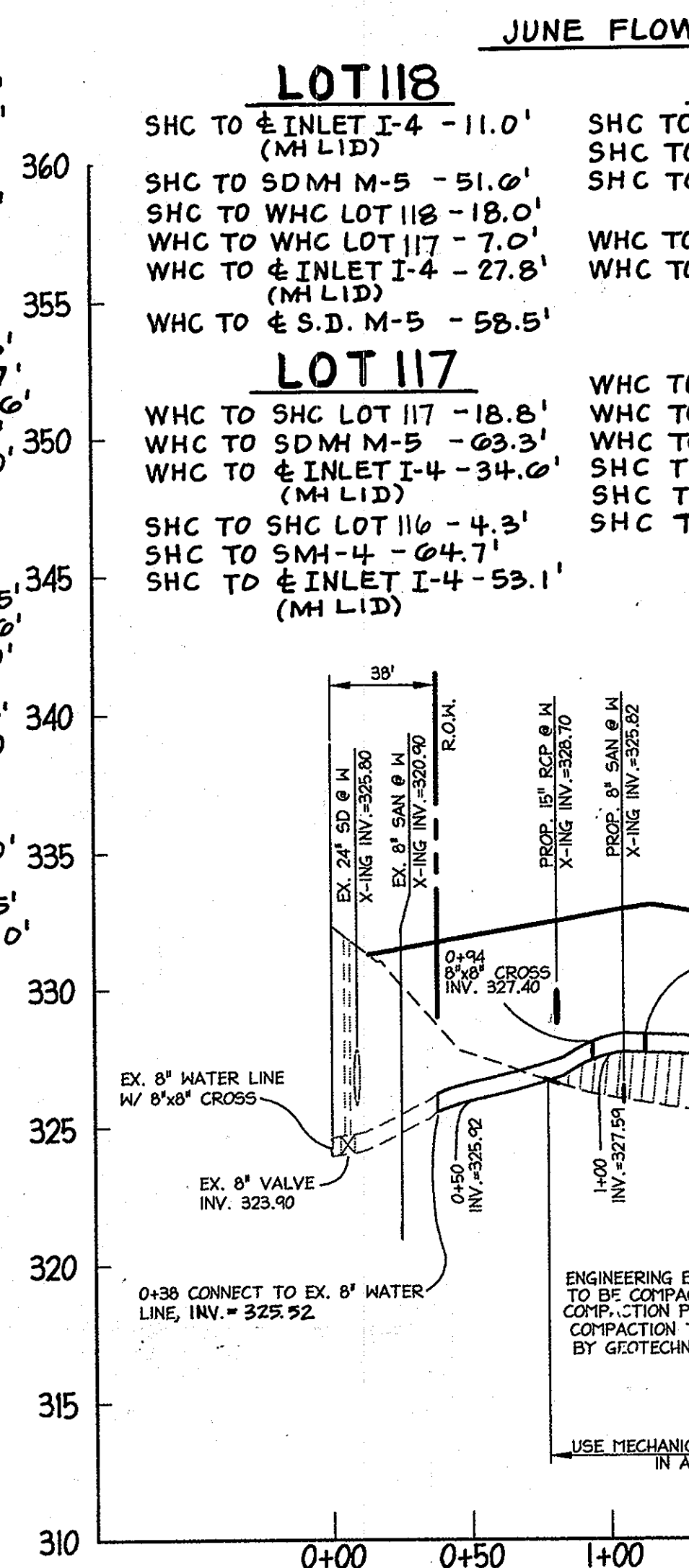


- | | |
|----------------------------|----------------------------|
| LOT 71 | LOT 72 |
| WHC TO INLET I-7 - 23.7' | SHC TO WHC LOT 72 - 19.0' |
| (M.H.L.D.) | SHC TO 8" VALVE #1 - 89.3' |
| WHC TO SHC LOT 71 - 27.3' | WHC TO INLET I-7 - 54.3' |
| WHC TO 8" VALVE #1 - 57.5' | (M.H.L.D.) |
| SHC TO SHC LOT 72 - 5.3' | WHC TO WHC LOT 73 - 5.0' |
| SHC TO INLET I-7 - 49.5' | WHC TO INLET I-7 - 73.2' |
| (M.H.L.D.) | (M.H.L.D.) |
| SHC TO 8" VALVE #1 - 84.4' | |

- | | |
|---------------------------|---------------------------|
| LOT 73 | LOT 74 |
| WHC TO SHC LOT 73 - 19.0' | SHC TO WHC LOT 74 - 10.3' |
| WHC TO INLET I-7 - 78.3' | SHC TO WHC LOT 26 - 49.7' |
| (M.H.L.D.) | SHC TO WHC LOT 26 - 52.0' |
| SHC TO SHC LOT 74 - 0.3' | WHC TO WHC LOT 75 - 8.0' |
| SHC TO WHC LOT 25 - 50.0' | WHC TO SHC LOT 26 - 51.0' |
| SHC TO WHC LOT 26 - 51.2' | |

- | | |
|---------------------------|----------------------------|
| LOT 75 | LOT 76 |
| WHC TO SHC LOT 75 - 19.0' | SHC TO WHC LOT 76 - 22.5' |
| WHC TO WHC LOT 27 - 53.3' | SHC TO WHC LOT 28 - 49.0' |
| SHC TO SHC LOT 76 - 4.5' | WHC TO WHC LOT 77 - 5.9' |
| SHC TO WHC LOT 28 - 51.2' | WHC TO SMH 7 - 83.4' |
| | WHC TO 8" VALVE * - 84.0' |
| | * 8" V TO CONT. #24-4318-D |

- | | |
|---|---------------------------|
| LOT 77 | LOT 78 |
| WHC TO SHC LOT 77 - 20.0' | SHC TO WHC LOT 78 - 29.0' |
| WHC TO SMH 7 - 78.1' | SHC TO SMH 7 - 57.3' |
| WHC TO 8" VALVE * - 78.9' | SHC TO 8" VALVE * - 57.5' |
| SHC TO SHC LOT 78 - 3.2' | WHC TO 8" VALVE * - 28.0' |
| SHC TO 8" VALVE * - 59.0' | WHC TO SMH 7 - 37.9' |
| SHC TO SMH 7 - 00.4' | |
| * 8" VALVE TO CONTRACT #24-4318-D (R/W) | |
| (MOSSY BARK LANE) | |



STATE OF MARYLAND
BRIAN A. MASTERSON
PROFESSIONAL ENGINEER
NO. 32589
9-18-06

AS BUILT
DATE: MAY 29, 2007
PROFILE SCALE HORIZ: 1"=50'
VERT: 1"=5'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

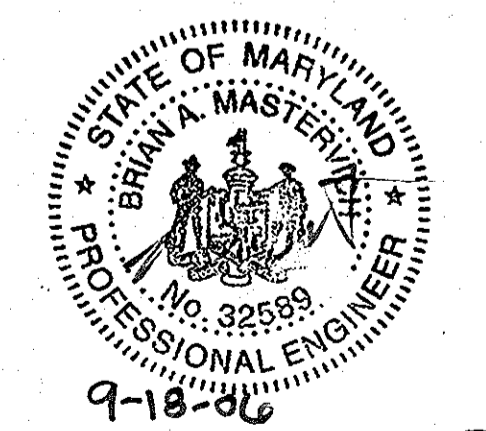
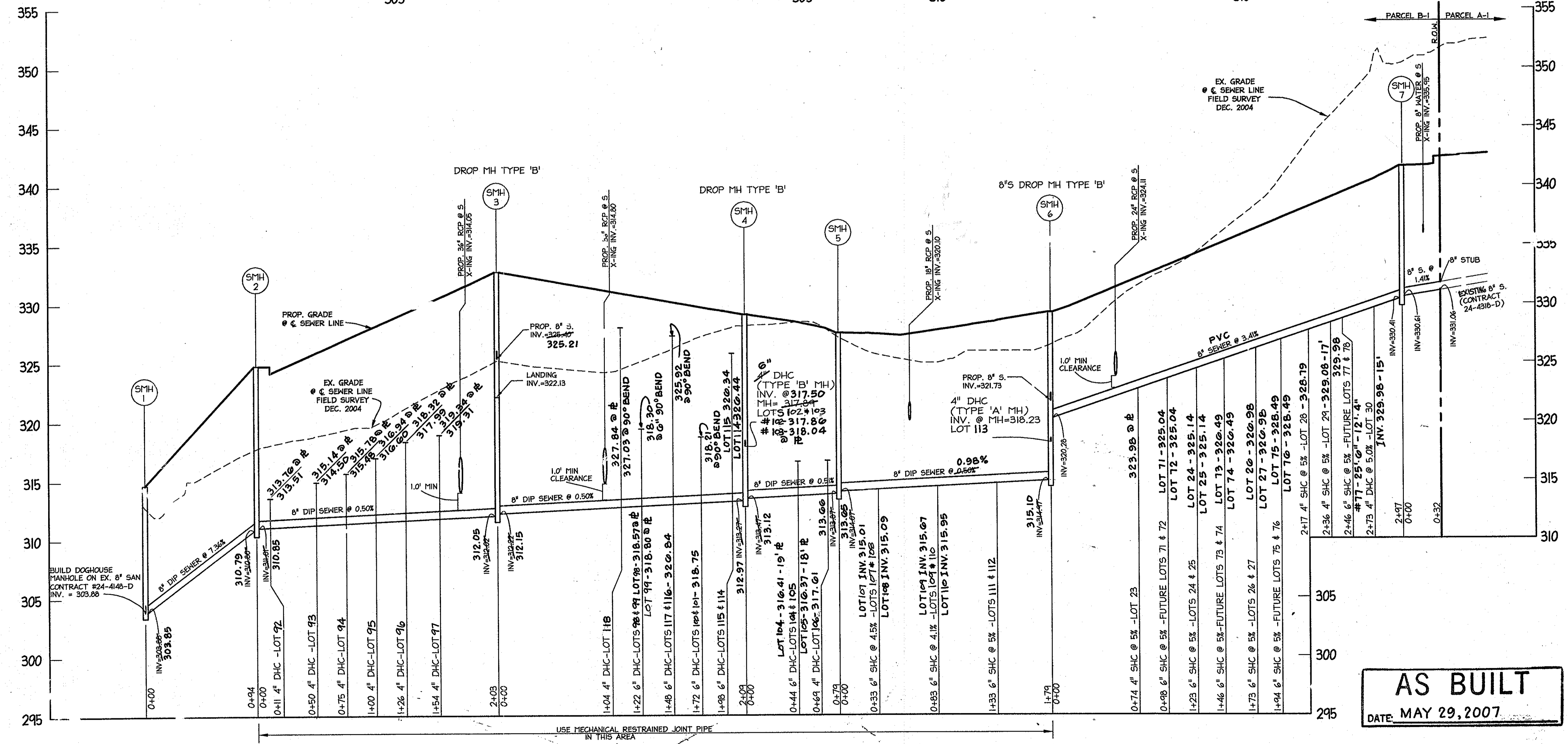
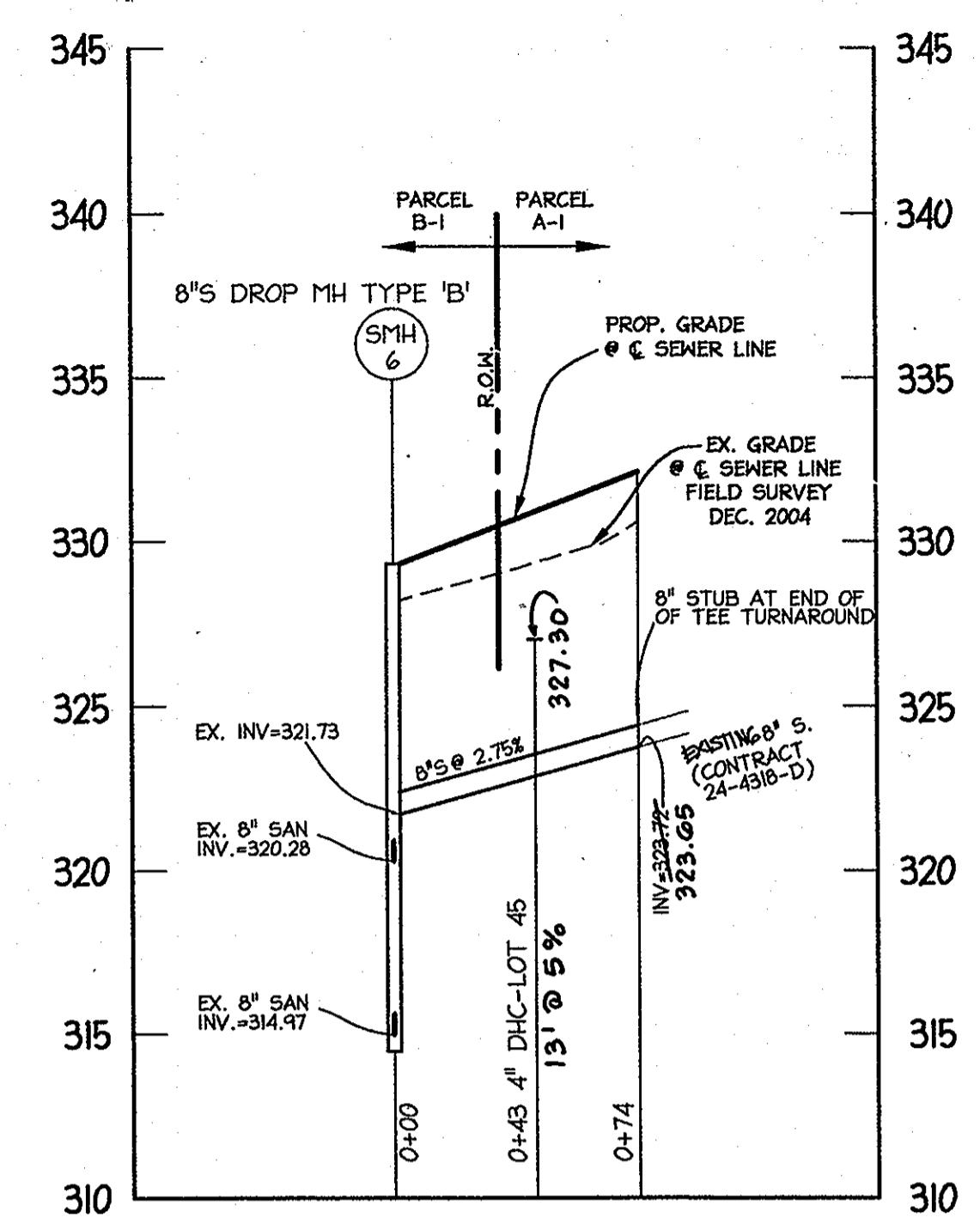
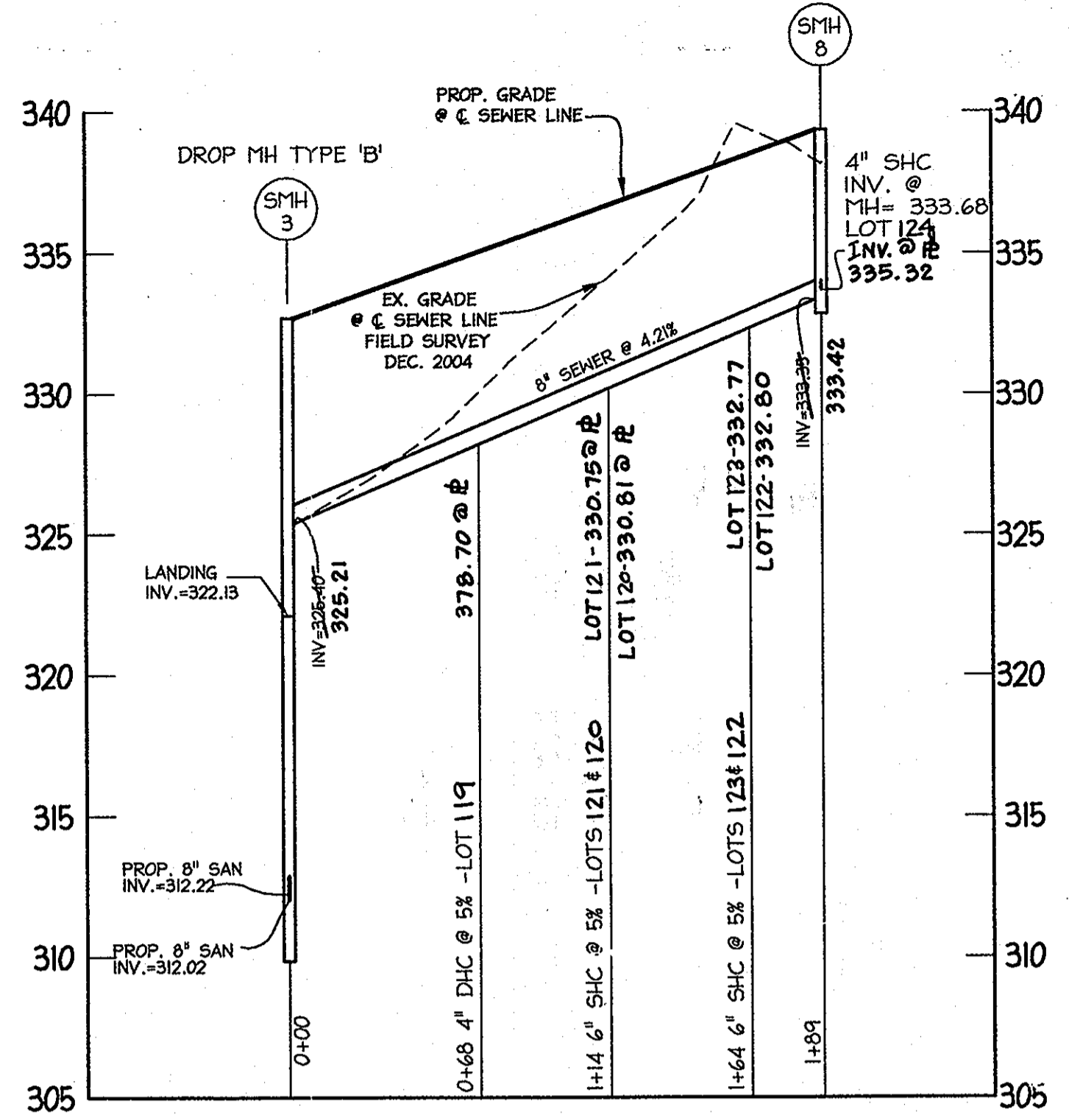
christopher consultants
engineering - surveying - land planning
11320 Rockville Pike, Suite 100, Rockville, MD 20850
410.572.8500 • fax: 410.572.8501 • www.christopherconsultants.com

DES:	KWS
DRN:	AJK
CHK:	BAM
DATE:	SEPT. 2006
BY:	NO.

PROFILES OF WATER EXTENSIONS
STUART-KRST

WATER and SEWER EXTENSIONS
A RESUBDIVISION OF PARCEL 'A-1' and 'B-1'
EMERSON LOTS 45-89, OPEN SPACE LOTS 90, 91
SECTION 2 PHASE 6A LOTS 92-124, OPEN SPACE 125-127
CONTRACT NO. 24-4318-D
TAX MAP 47
ZONE: MxD-3
HOWARD COUNTY, MARYLAND
6 OF 7

STRUCTURE SCHEDULE					
STRUCTURE	TYPE	NORTHING	EASTING	TOP	REMARKS
SMH 1	4'-0" DIA. MANHOLE	N 535,685.87	E 1,353,209.91	314.66	HOCO STD MANHOLE DETAIL NO. G5.14 (DOGHOUSE)
SMH 2	4'-0" DIA. MANHOLE	N 535,751.25	E 1,353,134.30	324.75	HOCO STD MANHOLE DETAIL NO. G5.12
SMH 3	4'-0" DIA. MANHOLE	N 535,949.92	E 1,353,140.91	332.77	HOCO STD DETAIL 31.32 TYPE 'B' & HOCO STD G5.15
SMH 4	4'-0" DIA. MANHOLE	N 535,947.11	E 1,353,349.9	329.15	HOCO STD MANHOLE DETAIL NO. 31.32 TYPE 'B'
SMH 5	4'-0" DIA. MANHOLE	N 535,987.8	E 1,353,418.09	327.55	HOCO STD MANHOLE DETAIL NO. G5.12
SMH 6	4'-0" DIA. MANHOLE	N 536,129.10	E 1,353,582.14	329.31	HOCO STD MANHOLE DETAIL NO. 31.32 TYPE 'B'
SMH 7	4'-0" DIA. MANHOLE	N 536,313.63	E 1,353,295.64	341.66	HOCO STD MANHOLE DETAIL NO. G5.12
SMH 8	4'-0" DIA. MANHOLE	N 536,138.62	E 1,353,156.96	339.35	HOCO STD MANHOLE DETAIL NO. G5.12



AS BUILT
DATE: MAY 29, 2007

PROFILE
HORIZ: 1"=50'
VERT: 1"=5'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND



DES:	KWS		
DRN:	AJK		
CHK:	BAM		
DATE:	SEPT. 2006		
BY:	NO.		

PROFILES OF
SEWER EXTENSIONS
STUART-KPST

WATER and SEWER EXTENSIONS
A RESUBDIVISION OF PARCEL 'A-1' and 'B-1'
EMERSON LOTS 45-81, OPEN SPACE LOTS 90, 91
SECTION 2 PHASE 6A LOTS 92-124 OPEN SPACE LOTS 125-127
CONTRACT NO. 24-4318-D

SCALE
AS SHOWN
SHEET
7 OF 7

Robert M. Benjamin 10-4-06
CHIEF, BUREAU OF UTILITIES

DATE: 10/4/06
DATE: 10/4/06

MAP 47
6th ELECTION DISTRICT
ZONE MXD-3
HOWARD COUNTY, MARYLAND

MDC-300(W&S)