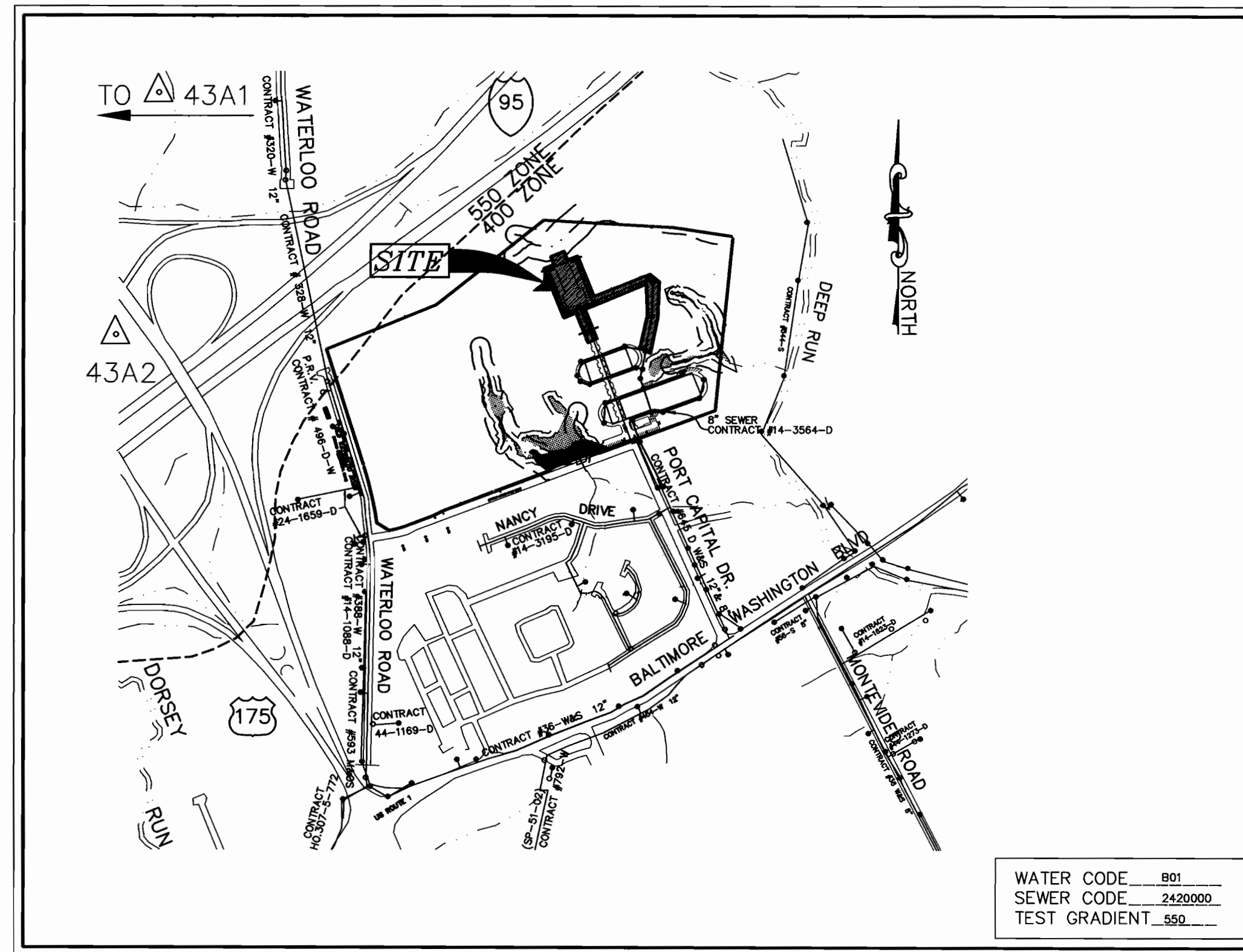


# QUANTITY TABLE

ITEMS	QUANTITIES ESTIMATED	QUANTITIES		
		TYPE	MANUFACTURER/SUPPLIER	
STANDARD MH	8	8'	CONC.	ATLANTIC CONCRETE
DROP MH, TYPE "B"	4	2	CONCRETE	ATLANTIC CONCRETE
INTERMEDIATE LANDING	4	2	CONCRETE	"
8" SEWER MAIN	300 L.F.	343 L.F.	PVC	J.M. MANUFACTURING/US FILTER
8" DIP SEWER MAIN	806 L.F.	795 L.F.	D.I.P.	ATLANTIC STATES/US FILTER
4" SEWER HOUSE CONNECTION	80 L.F.	48	PVC	J.M. MANUFACTURING/US FILTER
# SEWER HOUSE CONNECTIONS	4	10 L.F.	N/A	
6" WATER MAIN	80 L.F.	106	D.I.P.	ATLANTIC STATES/US FILTER
8" WATER MAIN	920 L.F.	922	D.I.P.	ATLANTIC STATES/US FILTER
4" WHC	90 L.F.	N/A		
F.H.	2	2		MUELLER / US FILTER
8"x6" T&V	2	2	D.I.P./GATE	MUELLER & UNION FOUNDRY / US FILTER
8"x6" REDUCER	2	2	D.I.P.	UNION FOUNDRY / US FILTER
8"x6" T	1	1	D.I.P.	UNION FOUNDRY/US FILTER
8"x8" T	6	6	D.I.P.	"
8"x8" C	1	1	"	"
8" V	7	7	GATE	MUELLER/US FILTER
6" V	3	3	"	"
8" CAP & BUTTRESS	7	7	"	UNION FOUNDRY/US FILTER
6" CAP & BUTTRESS	3	3	"	"
# WHC 1"	10 L.F.	57	'K'	CAMBRIDGE LEE/US FILTER
WHC 3/4"		29	'K'	"
NAME OF UTILITY CONTRACTOR: CHESAPEAKE CONTRACTING GROUP				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE APRIL 3, 1998				



# 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.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL 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 [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 WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:  
 STATE HIGHWAY ADMINISTRATION 531-5533  
 BG & E CO. CONTRACTOR SERVICES 850-4620  
 BG & E CO. UNDERGROUND DAMAGE CONTROL 787-9068  
 MISS UTILITY 1-800-257-7777  
 COLONIAL PIPELINE CO. 795-1390  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF UTILITIES 313-4900
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITH 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.
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' 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 SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
- ALL SEWER MAINS SHALL BE P.V.C. OR D.I.P. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITH 2'-0" OF EXTERIOR MANHOLE WALL.
- 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 65.52. 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.
- ALL WATER METERS TO BE LOCATED INSIDE PROPOSED UNITS.
- ALL STATIONING SHOWN IS WATER MAIN STATIONING.
- ALL CLEANOUTS AND BALL VALVES ARE TO BE LOCATED AT THE WATER, SEWER AND UTILITY EASEMENT LINE.
- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENSING CONSTRUCTION.
- SEDIMENT CONTROL APPROVED UNDER SDP-96-20.

# CONTRACT NO.: 14-3627-D NEW COLONY VILLAGE PHASE 2 WATER AND 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 PROFILES
4	SEWER PROFILES

WATER & SEWER AS-BUILTS

NEW COLONY VILLAGE  
PHASE 2  
RECREATION BLDG & POOL  
LOCUST HILL LANE

CONTRACT NO.: 14-3627-D  
NEW COLONY VILLAGE, PHASE 2  
WATER AND SEWER EXTENSIONS  
HOWARD COUNTY, MARYLAND

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.

*Mark C. Lacey* 8/18/97  
DEVELOPER'S SIGNATURE DATE  
DEVELOPER'S NAME

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.

*John M. Mucchiarelli* 8/14/97  
ENGINEER'S SIGNATURE DATE  
ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND MEET TECHNICAL REQUIREMENTS.  
*Cleof Simmons* 8/27/97  
USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE SOIL CONSERVATION DISTRICT.  
*John R. Linton* 8/27/97  
HOWARD SCD DATE

PLAN REFERENCE NUMBERS	
SDP-97-88	
SDP-96-20	

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors

5072 Dorsey Hill Drive, Suite 202, Ellicott City, Maryland 21042  
(410) 997-0288 Ball (301) 621-5521 Wash. (410) 997-0288 Fax.

engineering	M.P.			
illustration	E.G.G.			
approval	J.H.			
project	94044			
date	AUG. 97	BY	NO.	REVISION

TITLE SHEET

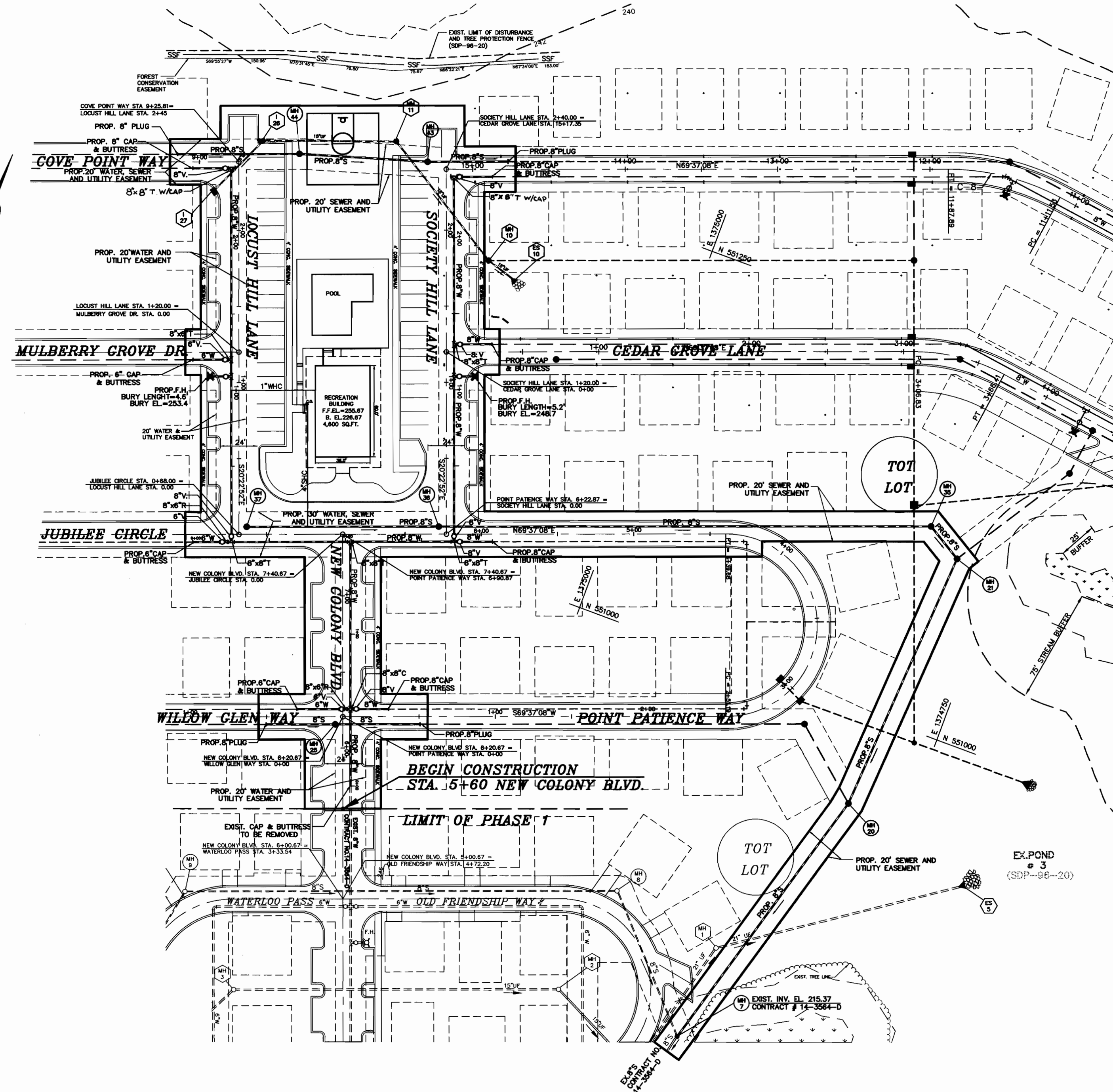
DATE 600' SCALE MAP NO. 43 BLOCK NO. 3

NEW COLONY VILLAGE  
PHASE 2  
CONTRACT NO.: 14-3627-D  
FIRST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

scale AS SHOWN

1 OF 4





**WATER MAIN TABULATION CHART**

NEW COLONY BLVD.		
ℰ STA.	APPURTENENCE	OFFSET
6+25.7	8"x8"C	5' RT.
6+25.7	8"V	7' RT.
6+25.7	8"x6"R	2' RT.
6+25.7	6"V	1' LT.
6+25.7	6"CAP & BUTTRESS	30' LT.
6+25.7	8"CAP & BUTTRESS	30' RT.
7+35.7	8"x8"T	5' RT.
JUBILEE CIRCLE		
ℰ STA.	APPURTENENCE	OFFSET
0+73	8"x8"T	5' LT.
0+73	8"V	2' LT.
0+76	8"x6"R	5' LT.
0+79	6"V	5' LT.
0+98	6"CAP & BUTTRESS	5' LT.
POINT PATIENCE WAY		
ℰ STA.	APPURTENENCE	OFFSET
5+92.9	8"CAP & BUTTRESS	5' LT.
6+14.9	8"V	5' LT.
6+17.9	8"V	2' LT.
6+17.9	8"x8"T	5' LT.
LOCUST HILL LANE		
ℰ STA.	APPURTENENCE	OFFSET
1+04	8"x6"T & V	5' LT.
1+04	F.H.	19' LT.
1+15	6"x6"T	5' LT.
1+15	6"V	8' LT.
1+15	6"CAP & BUTTRESS	30' LT.
2+40	8"x8" W/CAP	5' LT.
2+40	8"V	7' LT.
2+40	8"CAP & BUTTRESS	30' LT.
SOCIETY HILL LANE		
ℰ STA.	APPURTENENCE	OFFSET
1+04	8"x6"T & V	5' RT.
1+04	F.H.	19' RT.
1+25	8"x8"T	5' RT.
1+25	8"V	8' RT.
1+25	8"CAP & BUTTRESS	30' RT.
2+35	8"x8" W/CAP	5' RT.
2+35	8"V	7' RT.
2+35	8"CAP & BUTTRESS	30' RT.

MANHOLE LOCATION CHART			
MH #	ROAD	CL STATION	OFFSET
20	POINT PATIENCE WAY	2+87.20	85' RT.
21	POINT PATIENCE WAY	3+62.20	99' RT.
25	NEW COLONY BOULEVARD	6+15.67	5.0' LT.
35	POINT PATIENCE WAY	3+72.40	90' RT.
36	POINT PATIENCE WAY	6+27.00	5.0' RT.
37	JUBILEE CIRCLE	0+33.00	5.0' RT.
43	CEDAR GROVE LANE	15+30.00	5.0' RT.
44	COVE POINT WAY	9+65.00	5.0' LT.

SEWER HOUSE CONNECTION TABLE				
UNIT #	% SLOPE	INV. @ EASE	SERVICEABLE ELEV.	TYPE OF CONNECTION
REC. CNTR.	2	242.41	246.31	SHC

WATER & SEWER AS BUILTS

MH25 TO G" VALVE ON WILLOW GLEN WAY 13'

MH25 TO 8" VALVE ON POINT PATIENCE WAY 18'

G" VALVE ON WILLOW GLEN WAY TO 8" VALVE ON POINT PATIENCE WAY 8'

MH25 TO G" WATER STUB ON WILLOW GLEN WAY 25'

MH25 TO 8" WATER STUB ON POINT PATIENCE WAY 25'

MH25 TO SEWER STUB ON WILLOW GLEN WAY 45'

MH25 TO SEWER STUB ON POINT PATIENCE WAY 55'

G" VALVE ON WILLOW GLEN WAY TO G" WATER STUB ON WILLOW GLEN WAY 32'

G" VALVE ON WILLOW GLEN WAY TO SEWER STUB ON WILLOW GLEN WAY 52'

8" VALVE ON POINT PATIENCE WAY TO 8" WATER STUB ON POINT PATIENCE WAY 24'

8" VALVE ON POINT PATIENCE WAY TO SEWER STUB ON POINT PATIENCE WAY 43'

MH37 TO 8" VALVE ON LOCUST HILL LANE 13'

MH37 TO G" VALVE ON JUBILEE CIRCLE 20'

MH37 TO G" WATER STUB ON JUBILEE CIRCLE 36'

MH37 TO SHC STUB FOR LOTS 164 & 163 21'

G" VALVE ON JUBILEE CIRCLE TO G" WATER STUB ON JUBILEE CIRCLE 18'

G" VALVE ON JUBILEE CIRCLE TO SHC STUB FOR LOTS 164 & 163 13'

G" VALVE ON JUBILEE CIRCLE TO 8" VALVE ON LOCUST HILL LANE 7'

MH37 TO SHC STUB FOR REC. CENTER 93'

MH37 TO SHC STUB FOR LOT 77 46'

MH36 TO SHC STUB FOR REC. CNTR. 50'

MH36 TO 8" VALVE ON SOCIETY HILL LANE 12'

MH36 TO 8" VALVE TO POINT PATIENCE WAY 16'

8" VALVE ON SOCIETY HILL LANE TO 8" VALVE ON POINT PATIENCE WAY 4'

G" F.H. VALVE ON SOCIETY HILL LANE TO F.H. ON SOCIETY HILL LANE 13'

G" F.H. VALVE ON SOCIETY HILL LANE TO 8" VALVE ON CEDAR GROVE LANE 21'

F.H. ON SOCIETY HILL LANE TO 8" VALVE ON CEDAR GROVE LANE 24'

F.H. ON SOCIETY HILL LANE TO 8" WATER STUB ON CEDAR GROVE LANE 21'

8" VALVE ON CEDAR GROVE LANE TO 8" WATER STUB ON CEDAR GROVE LANE 25'

MH43 TO 8" VALVE ON SOCIETY HILL LANE 43'

MH43 TO 8" WATER STUB ON SOCIETY HILL LANE 43'

8" VALVE ON SOCIETY HILL LANE TO 8" WATER STUB ON SOCIETY HILL LANE 22'

F.H. ON LOCUST HILL LANE TO G" F.H. ON LOCUST HILL LANE 14'

F.H. ON LOCUST HILL LANE TO G" VALVE ON MULBERRY GROVE DR. 17'

F.H. ON LOCUST HILL LANE TO G" STUB ON MULBERRY GROVE DR. 14'

G" F.H. VALVE ON LOCUST HILL LANE TO G" VALVE ON MULBERRY GROVE DR. 11'

G" VALVE ON MULBERRY GROVE DR. TO G" STUB ON MULBERRY GROVE DR. 21'

MH44 TO 8" VALVE ON COVE POINT WAY 45'

MH44 TO 8" WATER STUB ON COVE POINT WAY 70'

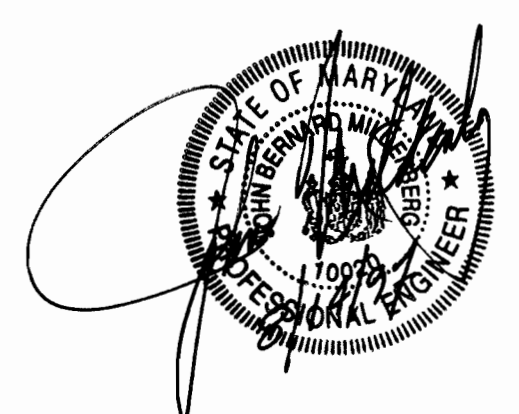
8" VALVE ON COVE POINT WAY TO 8" SEWER STUB ON COVE POINT WAY 37'

MH36 TO WHC LOT 77 23'

MH36 TO WHC LOT 78 26'

8" VALVE ON POINT PATIENCE WAY TO WHC LOT 77 10'

8" VALVE ON POINT PATIENCE WAY TO WHC LOT 78 10'



WHC LOT 77 TO WHC LOT 78 6'

MH37 TO WHC LOT 163 48'

G" VALVE ON JUBILEE CIR. TO WHC LOT 163 62'

MH37 TO WHC FOR REC. CNTR. 100'

F.H. ON LOCUST HILL LANE TO WHC FOR REC. CNTR. 65'

OWNER/DEVELOPER  
RTE 770 LLC  
C/O ROCK REALTY, INC.  
25 MAIN STREET  
REISTRETOWN, MARYLAND 21136  
(410) 526-4030

94044 (DWG) PHASE-2 WKS PRELIM

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Robert M. Berman* 8-19-97  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*John J. Damann* 9/3/97  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042  
(410) 987-0286 Ball (301) 621-5521 Wash. (410) 987-0286 Paz

engineering M.P.  
illustration M.P.  
approval J.H.  
project 94044  
date AUG. 97

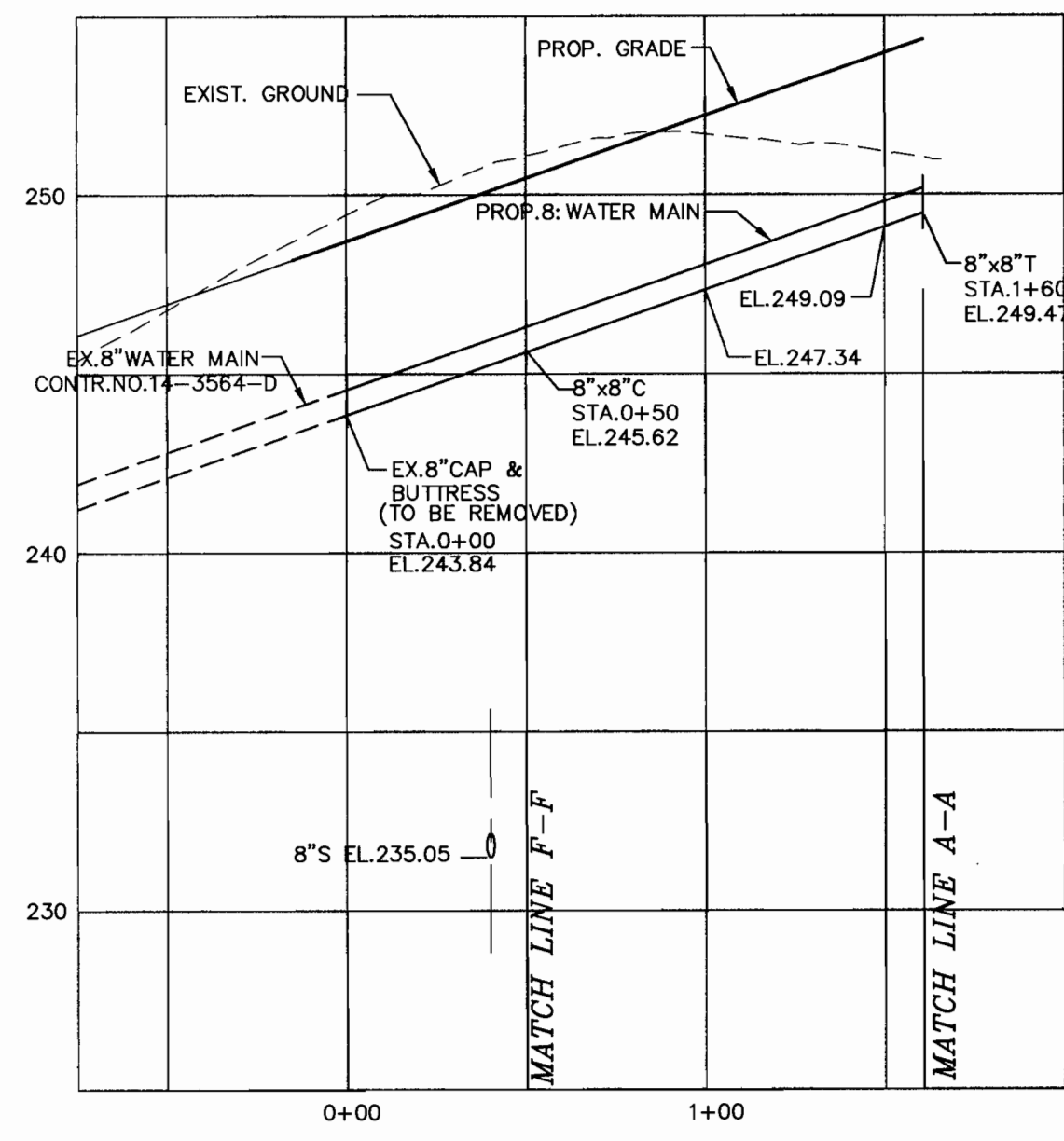
BY	NO.	REVISION	DATE

**WATER & SEWER PLAN**

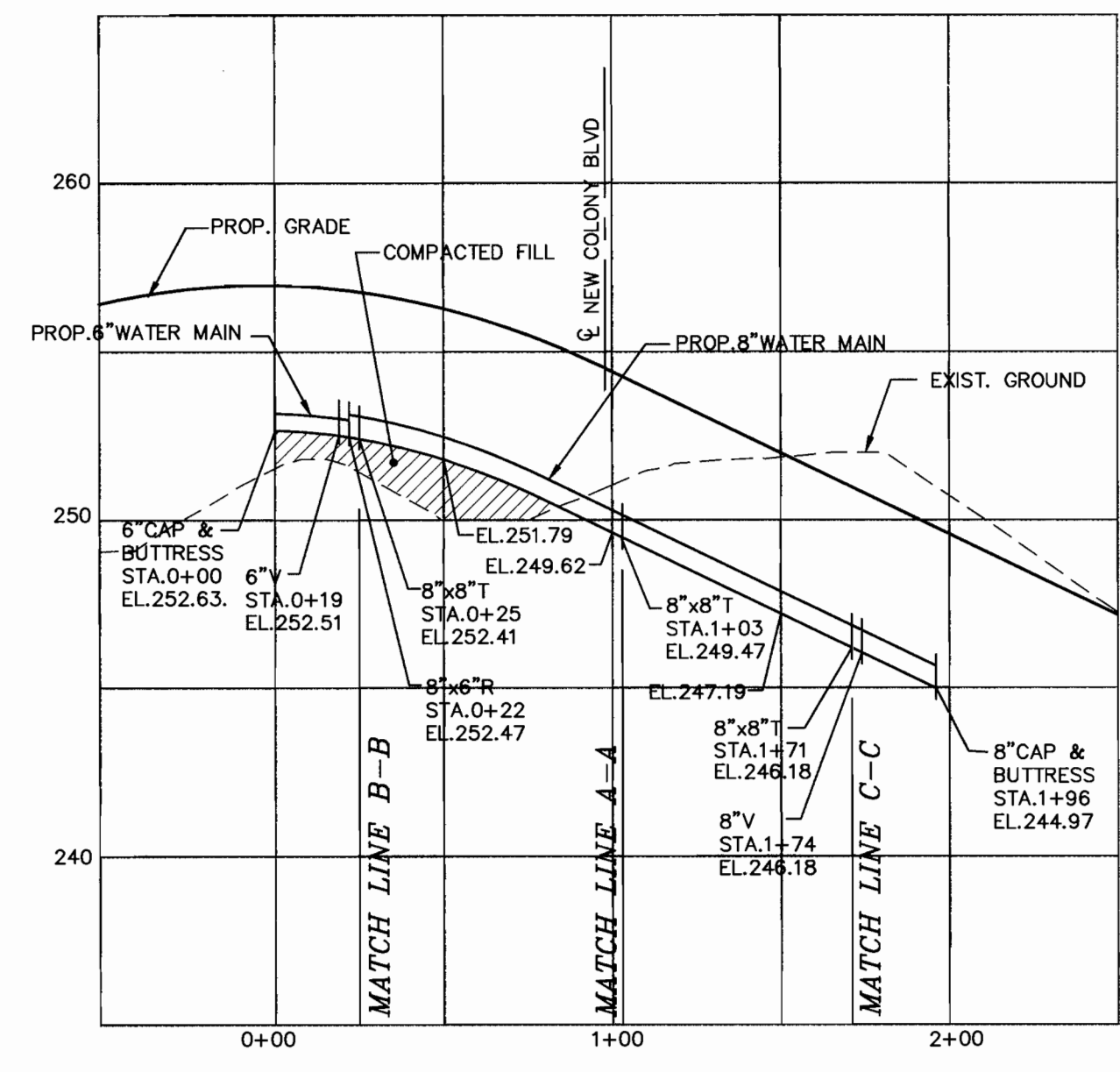
600' SCALE MAP NO. 43 BLOCK NO. 3

**NEW COLONY VILLAGE PHASE 2**  
CONTRACT NO.: 14-3627-D  
FIRST ELECTION DISTRICT  
HOWARD COUNTY

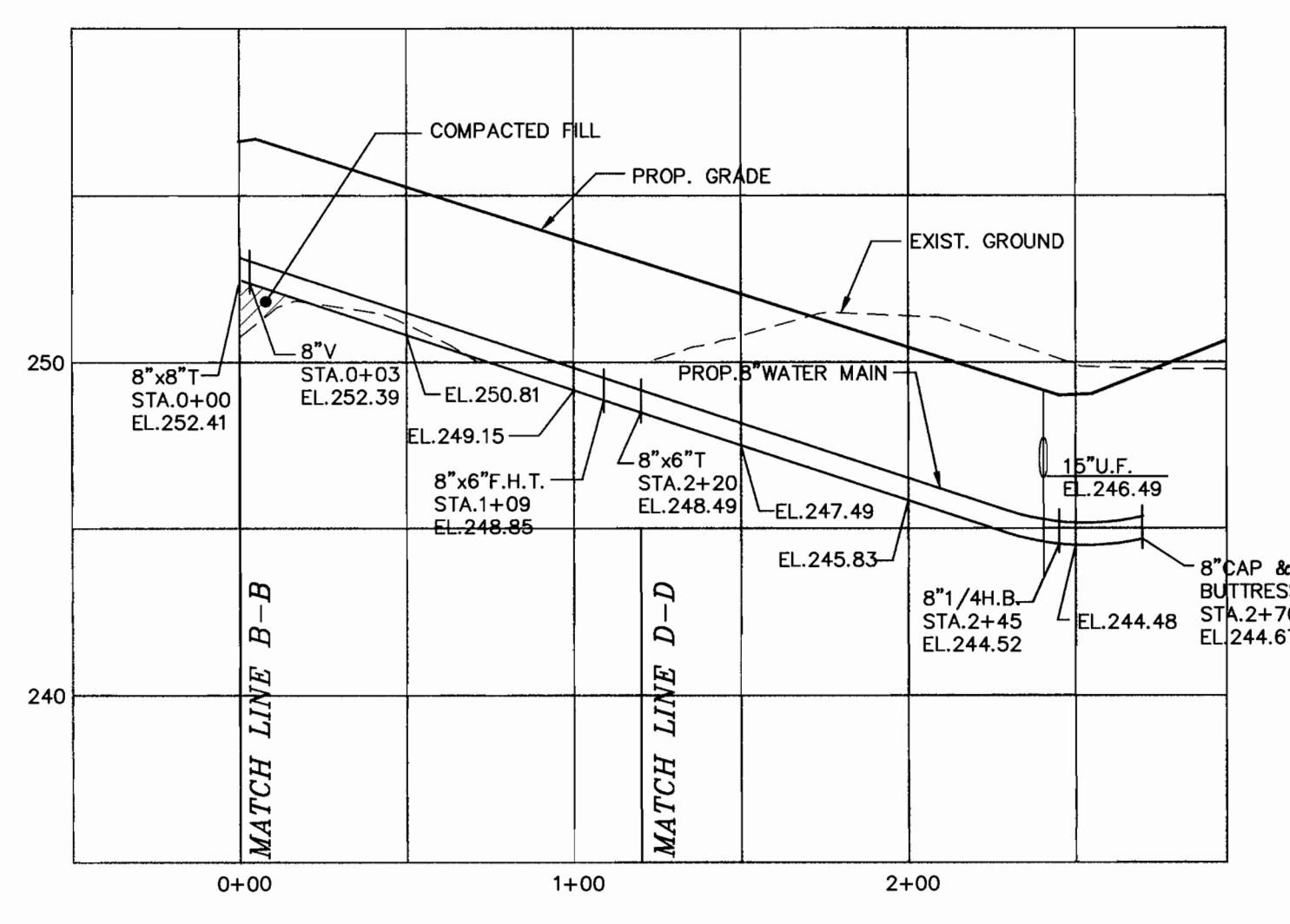
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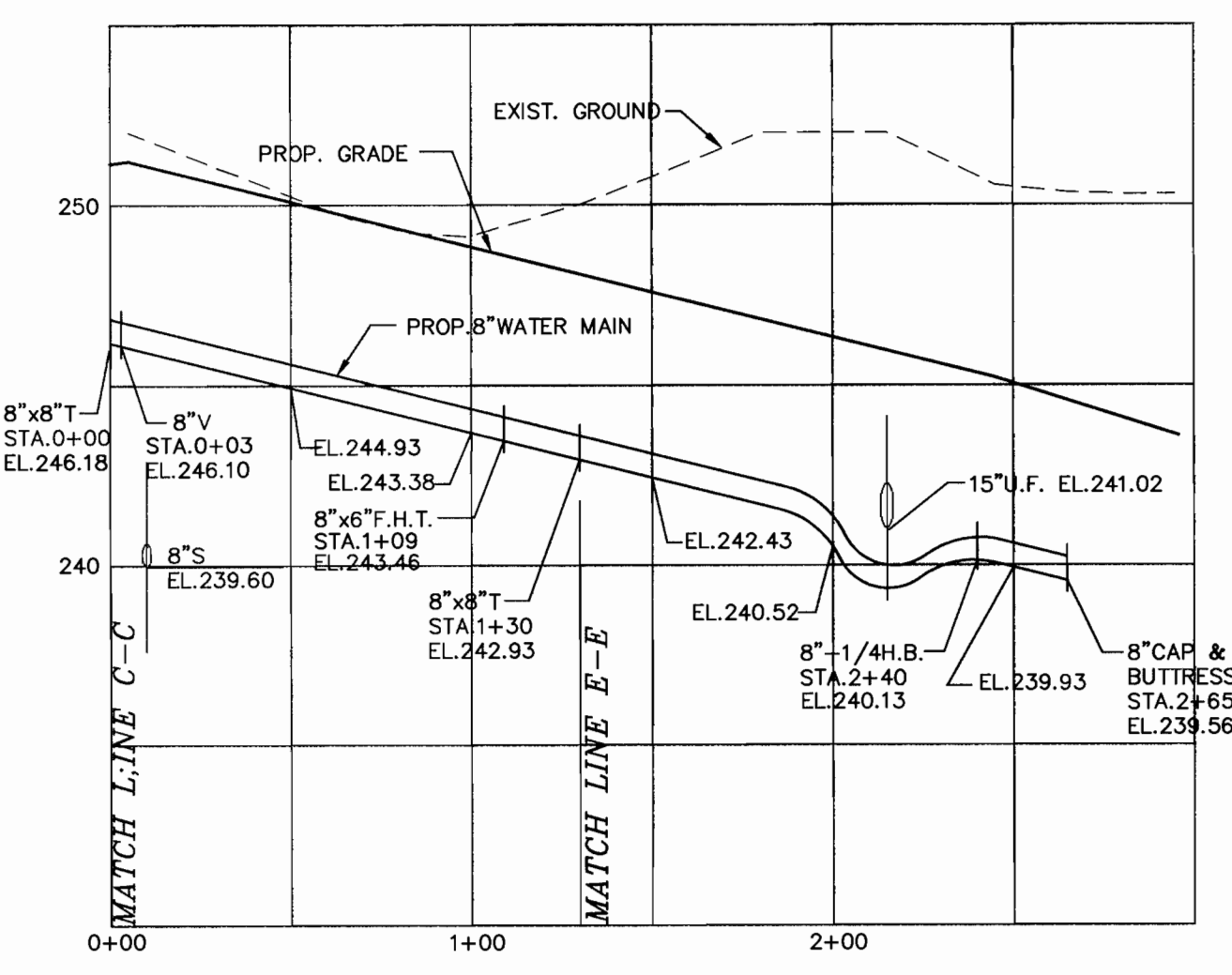
**8" WATER MAIN PROFILE  
(NEW COLONY BLVD.)**  
SCALE: HOR. 1"=50'  
VER. 1"=5'



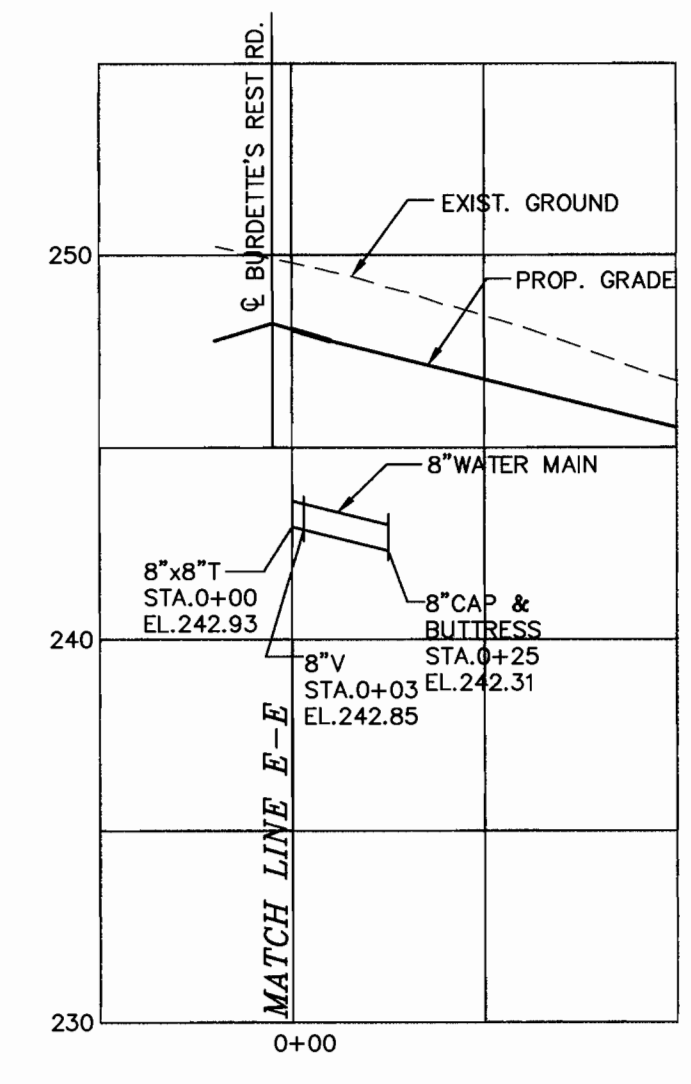
**8" WATER MAIN PROFILE  
(JUBILEE CIRCLE/POINT PATIENCE WAY)**  
SCALE: HOR. 1"=50'  
VER. 1"=5'



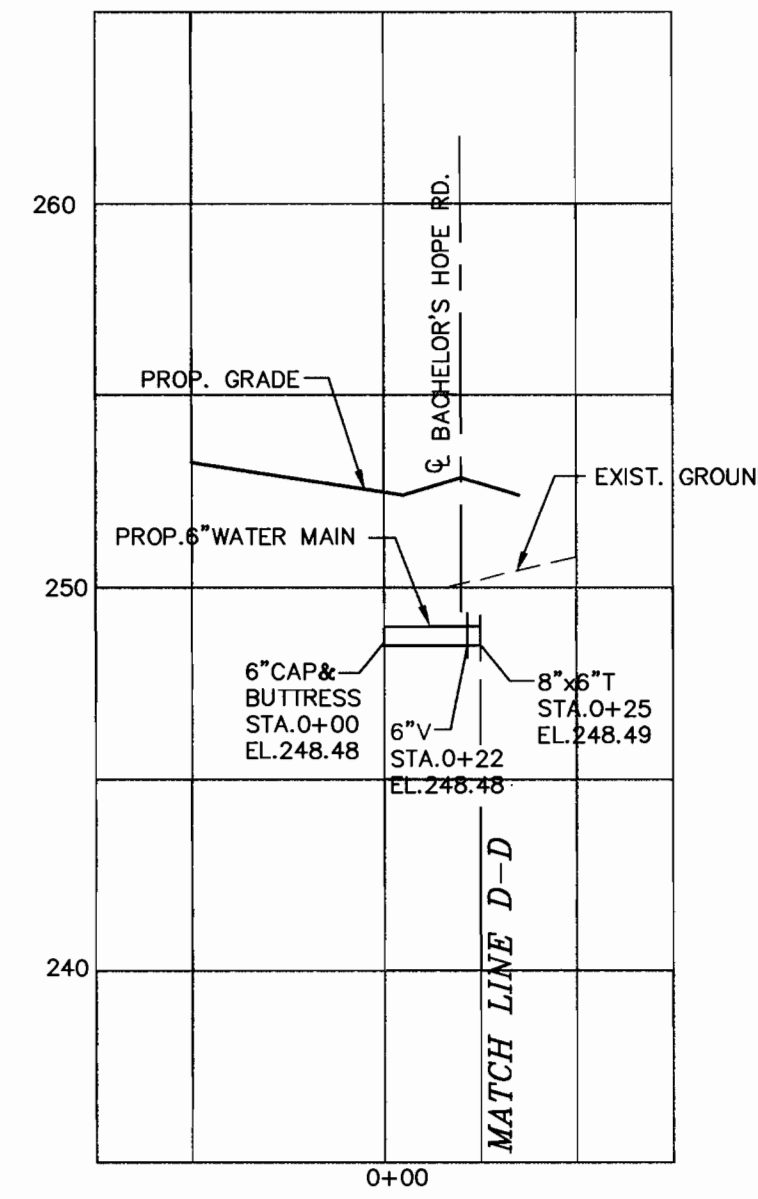
**8" WATER MAIN PROFILE  
(LOCUST HILL LANE)**  
SCALE: HOR. 1"=50'  
VER. 1"=5'



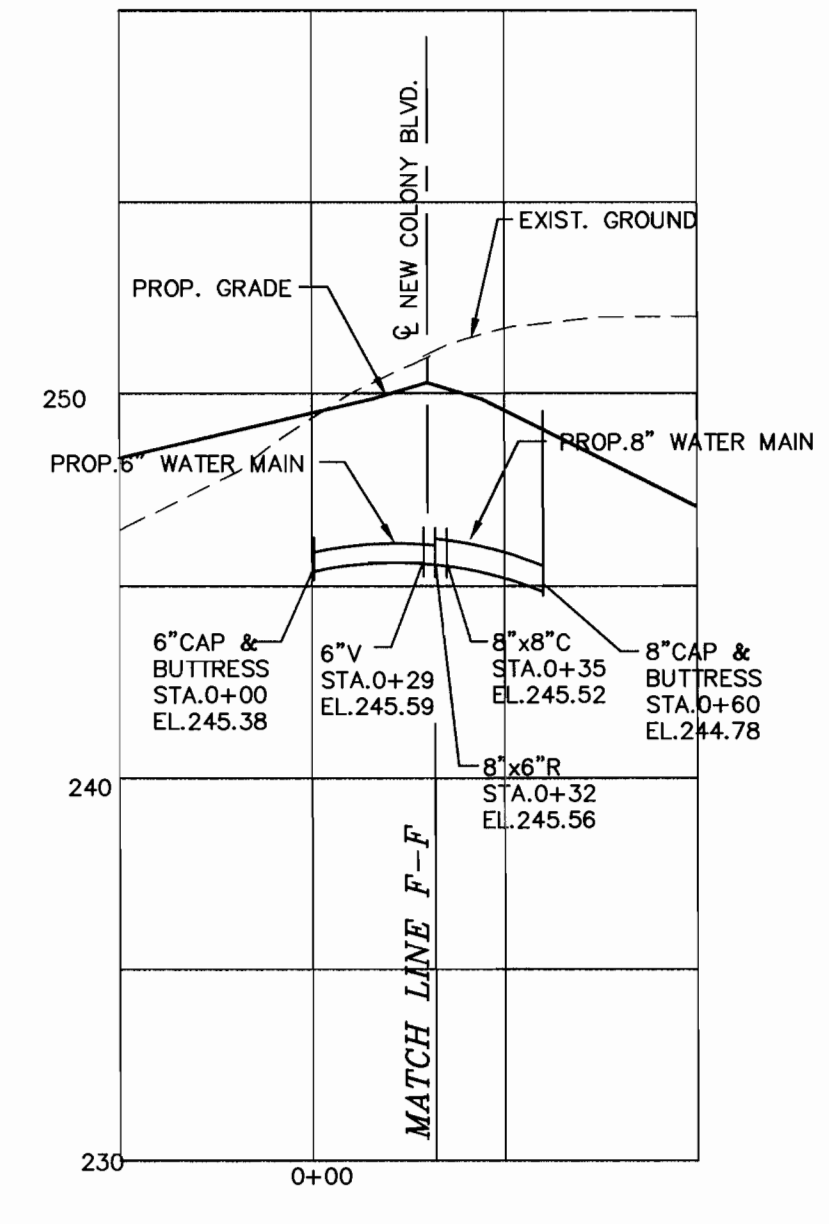
**8" WATER MAIN PROFILE  
(SOCIETY HILL LANE)**  
SCALE: HOR. 1"=50'  
VER. 1"=5'



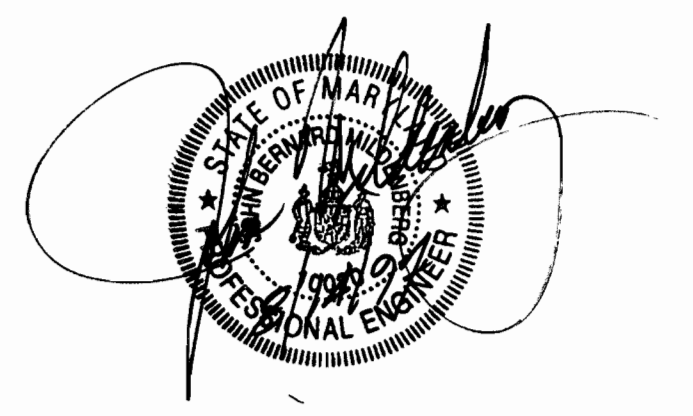
**8" WATER MAIN PROFILE  
(CEDAR GROVE LANE)**  
SCALE: HOR. 1"=50'  
VER. 1"=5'



**6" WATER MAIN PROFILE  
(MULBERRY GROVE DR.)**  
SCALE: HOR. 1"=50'  
VER. 1"=5'



**6" AND 8" WATER PROFILE  
(WILLOW GLEN WAY/POINT PATIENCE WAY)**  
SCALE: HOR. 1"=50'  
VER. 1"=5'



NOTE: EXISTING GROUND REPRESENTS ORIGINAL, PREDEVELOPED CONDITIONS IN ORDER TO ACCURATELY REPRESENT CUT & FILL AREAS.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
Robert W. Dummer  
CHIEF, BUREAU OF UTILITIES  
8-19-97  
DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
Hon. Robert W. Dummer  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
9/3/97  
DATE

**MILDENBERG,  
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engineering	M.P.				
illustration	M.P.				
approval	J.H.				
project	94044				
date	AUG. 97	BY	NO.	REVISION	DATE

**WATER  
PROFILES**  
600' SCALE MAP NO. 43 BLOCK NO. 3

**NEW COLONY VILLAGE  
PHASE 2**  
CONTRACT NO: 14-3627-D  
FIRST ELECTION DISTRICT  
HOWARD COUNTY

scale  
HOR. 1"=50'  
VER. 1"=5'  
**3 OF 4**



