

**GENERAL NOTES**

- I. STANDARD GENERAL NOTES
  - a. 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.
  - b. TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED APRIL 2010 BY SILL, ADCOCK & ASSOCIATES, LLC. THE COORDINATES ON THE DRAWINGS ARE BASED ON THE MARYLAND STATE REFERENCE SYSTEM NAD 83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 1053 AND NO. 09H2.
  - c. ALL VERTICAL CONTROLS ARE BASED ON NAVD 83. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE CONCRETE MONUMENTS.
  - d. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
  - e. 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 MONIES OWED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
  - f. 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.
  - g. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE 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 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.
  - h. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON PLANS:
 

A T & T	1-800-252-1133
BGE (CONSTRUCTION SERVICES)	410-850-4620
BGE (EMERGENCY)	410-485-1400
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE COMPANY	410-795-1390
MISS UTILITY	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533
VERIZON	1-800-743-0033/1-800-224-9210
  - i. 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.
  - k. THE CONTRACTOR SHALL REMOVE TREES, STUMPS, AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
  - l. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-7450 AT LEAST 5 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.
  - m. THE NEW 4" WHC TO 3425 MARTHA BUSH DRIVE AND 6" WHC TO 3423 MARTHA BUSH DRIVE ARE TO BE CONSTRUCTED UNDER AN ADVANCE DEPOSIT ORDER (ADO).

- II. STANDARD WATER MAIN GENERAL NOTES
  - a. ALL WATER MAINS TO BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED.
  - b. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-0" OF COVER UNLESS OTHERWISE NOTED.
  - c. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
  - d. ALL FITTING SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAIL UNLESS OTHERWISE PROVIDED FOR IN THE DRAWINGS.
  - e. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
  - f. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
  - g. FIRE SPRINKLER SYSTEMS FOR ALL SINGLE FAMILY DWELLINGS SHALL HAVE A MINIMUM OF A 1'-1/2" CONNECTION WITH A 1" METER. (SEE HOWARD COUNTY STANDARD DETAIL W-3.28.)

- III. STANDARD SEWER MAIN GENERAL NOTES
  - a. ALL SEWER MAINS SHALL BE DIP OR P.V.C. UNLESS OTHERWISE NOTED.
  - b. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
  - c. FORCE MAINS SHALL BE D.I.P. ONLY.
  - d. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
  - e. 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 DRAWINGS.
  - f. HOUSE(S) WITH THE SYMBOL "C.A.S." INDICATES THAT CELLAR CANNOT BE SERVED.

NOTE: THE EXISTING FORCE MAIN SERVICING 3421 MARTHA BUSH DRIVE IS TO BE REMOVED UPON CONNECTION TO THE PRIVATE SEWER MAIN BEING INSTALLED UNDER SDP-11-041.

NOTE: SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE VOLUME IV DESIGN MANUAL - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. **GP-12-13.**

**DEVELOPER'S CERTIFICATE**  
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL 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.  
 Signature: *John Boudier* DATE: 9-6-11  
 JOHN BOUDIER, PRESIDENT  
 LINWOOD CENTER, INC.

**ENGINEER'S CERTIFICATE**  
 I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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.  
 Signature: *Stephanie Tuite* DATE: 9/6/11  
 STEPHANIE TUITE, R.L.A. PE

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

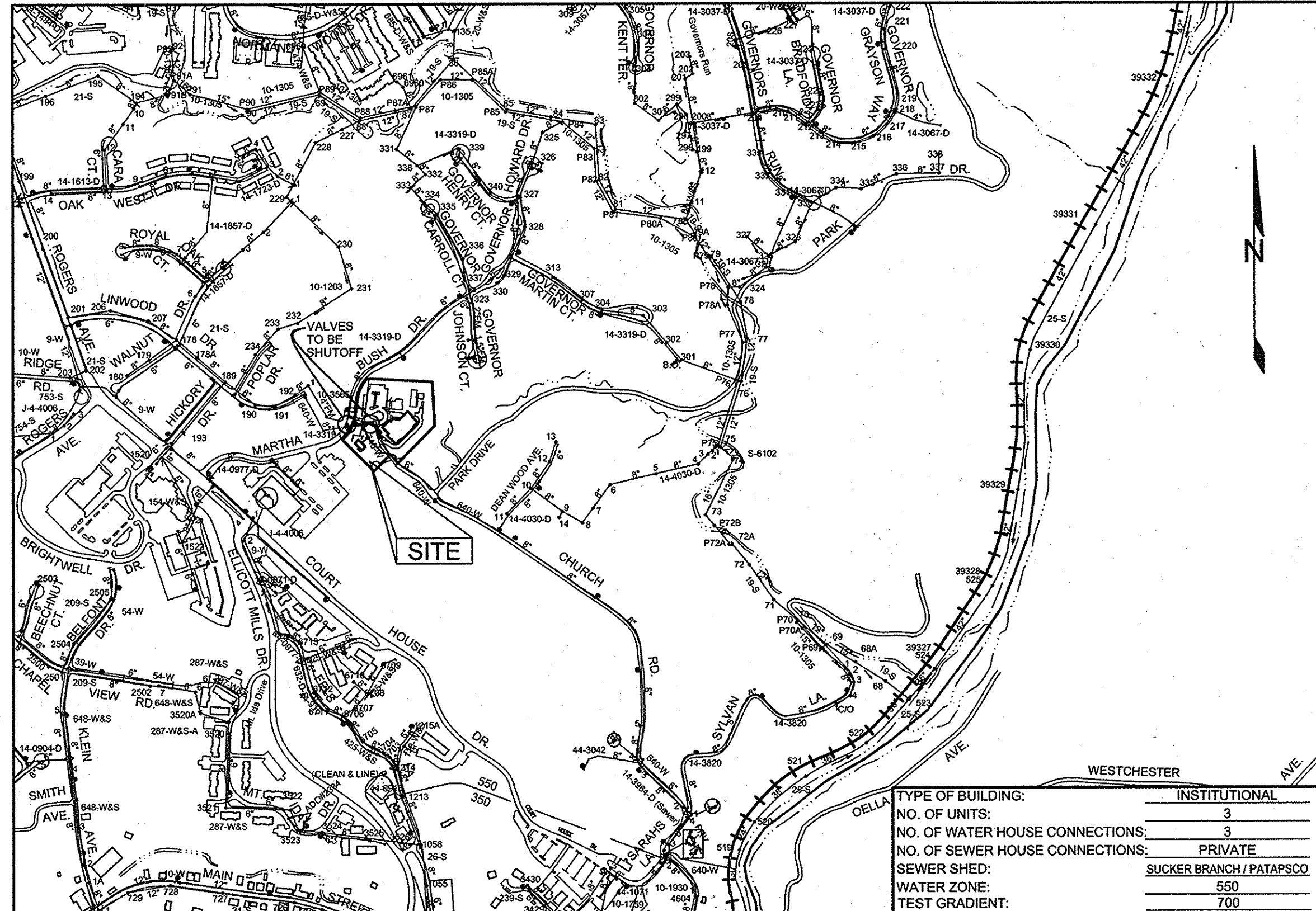
Signature: *John Boudier* DATE: 9/20/11  
 HOWARD SOIL CONSERVATION DISTRICT

**ADDRESSES TO BE NOTIFIED OF POTENTIAL WATER PRESSURE CHANGE**

3300 GOVERNOR JOHNSON COURT	3304 GOVERNOR HOWARD DRIVE	3317 GOVERNOR HENRY COURT	3402 DEAN WOOD AVE
3304 GOVERNOR JOHNSON COURT	3305 GOVERNOR HOWARD DRIVE	3403 DEAN WOOD AVE	3407 DEAN WOOD AVE
3308 GOVERNOR JOHNSON COURT	3308 GOVERNOR HOWARD DRIVE	3324 GOVERNOR HENRY COURT	3411 DEAN WOOD AVE
3311 GOVERNOR JOHNSON COURT	3309 GOVERNOR HOWARD DRIVE	3325 GOVERNOR HENRY COURT	3414 DEAN WOOD AVE
3312 GOVERNOR JOHNSON COURT	3312 GOVERNOR HOWARD DRIVE	3328 GOVERNOR HENRY COURT	3418 DEAN WOOD AVE
3306 GOVERNOR MARTIN COURT	3316 GOVERNOR HOWARD DRIVE	3329 GOVERNOR HENRY COURT	3421 DEAN WOOD AVE
3307 GOVERNOR MARTIN COURT	3319 GOVERNOR HOWARD DRIVE	3302 GOVERNOR CARROLL COURT	3422 DEAN WOOD AVE
3311 GOVERNOR MARTIN COURT	3320 GOVERNOR HOWARD DRIVE	3303 GOVERNOR CARROLL COURT	3425 DEAN WOOD AVE
3319 GOVERNOR MARTIN COURT	3323 GOVERNOR HOWARD DRIVE	3306 GOVERNOR CARROLL COURT	3426 DEAN WOOD AVE
3320 GOVERNOR MARTIN COURT	3324 GOVERNOR HOWARD DRIVE	3307 GOVERNOR CARROLL COURT	3429 DEAN WOOD AVE
3323 GOVERNOR MARTIN COURT	3327 GOVERNOR HOWARD DRIVE	3310 GOVERNOR CARROLL COURT	3430 DEAN WOOD AVE
3327 GOVERNOR MARTIN COURT	3328 GOVERNOR HOWARD DRIVE	3314 GOVERNOR CARROLL COURT	3515 CHURCH ROAD
3331 GOVERNOR MARTIN COURT	3332 GOVERNOR HOWARD DRIVE	3318 GOVERNOR CARROLL COURT	3519 CHURCH ROAD
3335 GOVERNOR MARTIN COURT	3330 GOVERNOR HOWARD DRIVE	3318 GOVERNOR CARROLL COURT	3538 CHURCH ROAD
3343 GOVERNOR MARTIN COURT	3344 GOVERNOR HOWARD DRIVE	3319 GOVERNOR CARROLL COURT	3541 CHURCH ROAD
3340 GOVERNOR MARTIN COURT	3300 GOVERNOR HENRY COURT	3322 GOVERNOR CARROLL COURT	3542 CHURCH ROAD
3351 GOVERNOR MARTIN COURT	3305 GOVERNOR HENRY COURT	3323 GOVERNOR CARROLL COURT	3557 CHURCH ROAD
3300 GOVERNOR HOWARD DRIVE	3309 GOVERNOR HENRY COURT	3326 GOVERNOR CARROLL COURT	3431 CHURCH ROAD
3301 GOVERNOR HOWARD DRIVE	3313 GOVERNOR HENRY COURT	3327 GOVERNOR CARROLL COURT	8330 & 8336 PARK DRIVE (SAME OWNER)

NOTE: CONTRACTOR TO NOTIFY THESE HOMES THAT A POTENTIAL DECREASE IN WATER PRESSURE MAY OCCUR DURING REMOVAL AND REPLACEMENT OF WATER LINE ON-SITE.

# FINAL PUBLIC WATER AND SEWER PLAN LINWOOD CENTER, INC. 3421, 3423, AND 3425 MARTHA BUSH DRIVE HOWARD COUNTY, MARYLAND CONTRACT NO. 14-4705-D



TYPE OF BUILDING: INSTITUTIONAL  
 NO. OF UNITS: 3  
 NO. OF WATER HOUSE CONNECTIONS: 3  
 NO. OF SEWER HOUSE CONNECTIONS: PRIVATE  
 SEWER SHED: SUCKER BRANCH / PATAPSCO  
 WATER ZONE: 550  
 TEST GRADIENT: 700

**LOCATION PLAN**  
SCALE: 1"=600'

**SERVICE DISRUPTION**

3300 GOVERNOR JOHNSON COURT	3304 GOVERNOR HOWARD DRIVE	3317 GOVERNOR HENRY COURT
3304 GOVERNOR JOHNSON COURT	3305 GOVERNOR HOWARD DRIVE	3321 GOVERNOR HENRY COURT
3308 GOVERNOR JOHNSON COURT	3308 GOVERNOR HOWARD DRIVE	3324 GOVERNOR HENRY COURT
3311 GOVERNOR JOHNSON COURT	3309 GOVERNOR HOWARD DRIVE	3325 GOVERNOR HENRY COURT
3312 GOVERNOR JOHNSON COURT	3312 GOVERNOR HOWARD DRIVE	3328 GOVERNOR HENRY COURT
3306 GOVERNOR MARTIN COURT	3316 GOVERNOR HOWARD DRIVE	3329 GOVERNOR HENRY COURT
3307 GOVERNOR MARTIN COURT	3319 GOVERNOR HOWARD DRIVE	3302 GOVERNOR CARROLL COURT
3311 GOVERNOR MARTIN COURT	3320 GOVERNOR HOWARD DRIVE	3303 GOVERNOR CARROLL COURT
3319 GOVERNOR MARTIN COURT	3323 GOVERNOR HOWARD DRIVE	3306 GOVERNOR CARROLL COURT
3320 GOVERNOR MARTIN COURT	3324 GOVERNOR HOWARD DRIVE	3307 GOVERNOR CARROLL COURT
3323 GOVERNOR MARTIN COURT	3327 GOVERNOR HOWARD DRIVE	3310 GOVERNOR CARROLL COURT
3327 GOVERNOR MARTIN COURT	3328 GOVERNOR HOWARD DRIVE	3314 GOVERNOR CARROLL COURT
3331 GOVERNOR MARTIN COURT	3332 GOVERNOR HOWARD DRIVE	3318 GOVERNOR CARROLL COURT
3335 GOVERNOR MARTIN COURT	3330 GOVERNOR HOWARD DRIVE	3318 GOVERNOR CARROLL COURT
3339 GOVERNOR MARTIN COURT	3340 GOVERNOR HOWARD DRIVE	3319 GOVERNOR CARROLL COURT
3343 GOVERNOR MARTIN COURT	3344 GOVERNOR HOWARD DRIVE	3319 GOVERNOR CARROLL COURT
3340 GOVERNOR MARTIN COURT	3300 GOVERNOR HENRY COURT	3322 GOVERNOR CARROLL COURT
3351 GOVERNOR MARTIN COURT	3305 GOVERNOR HENRY COURT	3323 GOVERNOR CARROLL COURT
3300 GOVERNOR HOWARD DRIVE	3309 GOVERNOR HENRY COURT	3326 GOVERNOR CARROLL COURT
3301 GOVERNOR HOWARD DRIVE	3313 GOVERNOR HENRY COURT	3327 GOVERNOR CARROLL COURT

NOTE: VALVE ALONG MARTHA BUSH DRIVE SERVICING GOVERNORS RUN SUBDIVISION (CONT. # 14-3319-D) TO BE SHUT OFF AND NEW ON-SITE 8" VALVE TO REMAIN SHUT OFF AS SHOWN IN THE LOCATION MAP ABOVE FOR BLOCKING OF EXISTING 8" WATER SERVICE LINE TO 3421 MARTHA BUSH DRIVE. SEE SEQUENCE OF CONSTRUCTION FOR TIMING OF SHUT OFF.

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. 33386, EXPIRATION DATE: JANUARY 12, 2012.

**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: SJT  
 DRAWN BY: SJT  
 CHECKED BY: PS  
 DATE: AUGUST 24, 2011

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND

Signature: *Sill Adcock* DATE: 9/6/11  
 CHIEF, BUREAU OF UTILITIES

Signature: *Stephanie Tuite* DATE: 9/20/11  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

COVER SHEET

NO.	DESCRIPTION	DATE
1	Revise Quantities	9/11/11

600' SCALE MAP NO. 25  
 BLOCK NO. 1

**LINWOOD CENTER, INC.**  
 3421, 3423, AND 3425 MARTHA BUSH DRIVE

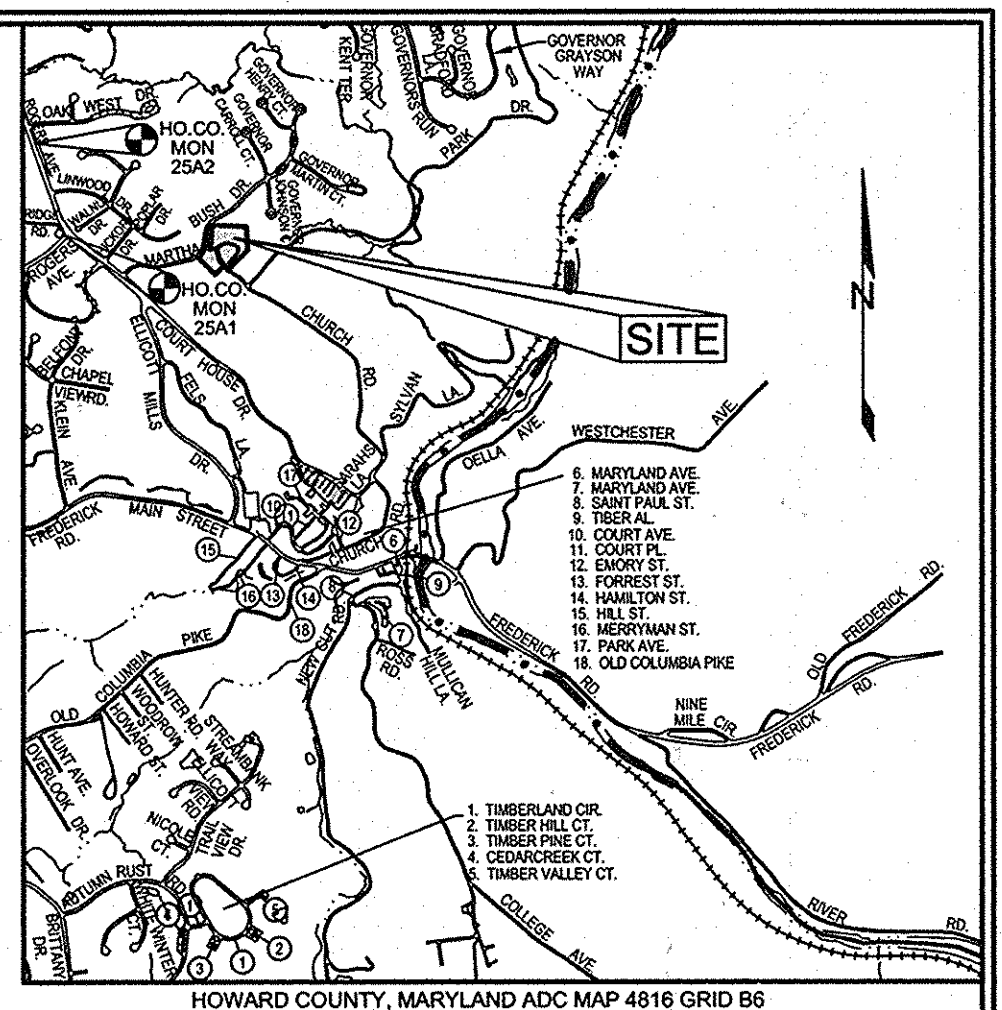
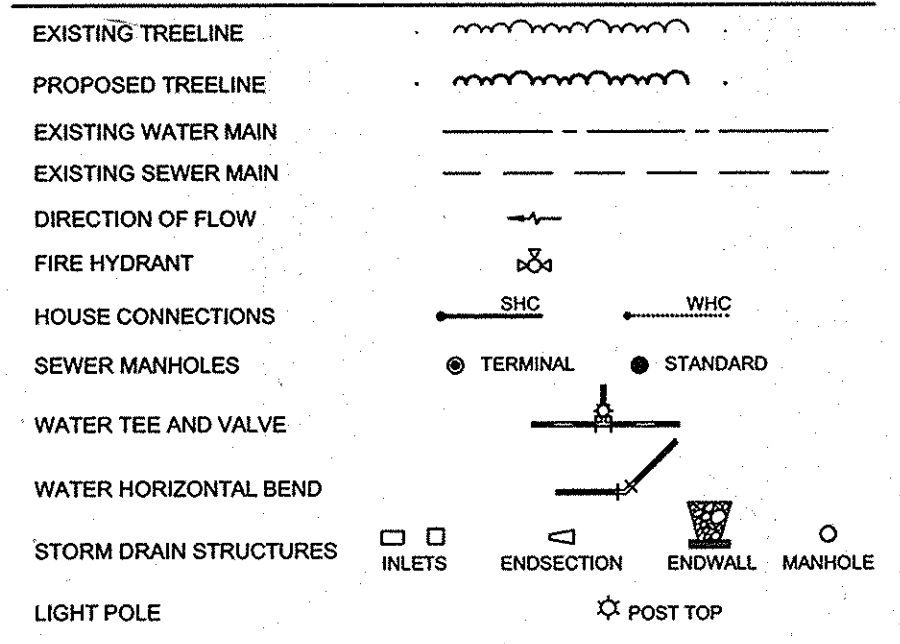
TAX MAP 25 GRID 1  
 2ND ELECTION DISTRICT

PARCELS 218 & 333  
 HOWARD COUNTY, MARYLAND

CONTRACT NO. 14-4705-D

SCALE: AS SHOWN  
 SHEET NO. 1 OF 3

**LEGEND**



**BENCHMARKS**

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
25A1	590,475.2538	1,344,753.9350	469.892	11.5' SOUTHWEST OF WBL RT. 40, 20.8' WEST OF PK NAIL IN SHOULDER, 66.4' SOUTH OF LAST POST IN GUARDRAIL
25A2	590,475.2538	1,344,753.9350	469.892	11' SOUTHWEST OF WBL RT. 40, 134.8' WEST OF CEMETERY LANE SIGN, 144.8' NORTH OF FIRST POST IN GUARDRAIL

**SHEET INDEX**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	WATER & SEWER PLAN AND PROFILE
3	SEDIMENT & EROSION CONTROL NOTES & DETAILS

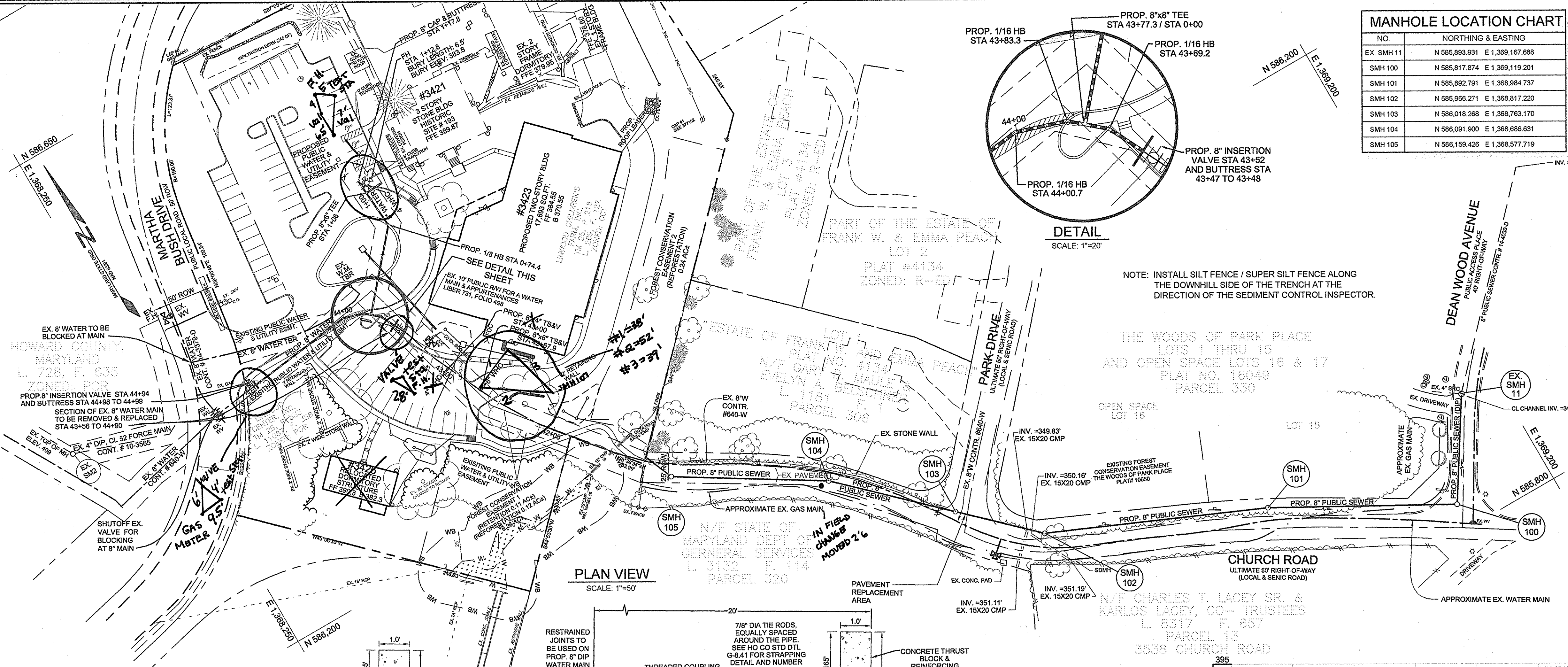
**QUANTITIES**

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

ITEMS	QUANTITIES	AS-BUILT QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" D.I.P. (WATER)	252 LF			GRIFFIN PIPE
8" D.I.P. (WHC)	7 LF			GRIFFIN PIPE
8" INSERTION VALVE	2 EA			AMERICAN HOLO CONTROL
8" CAP & BUTTRESS	1 EA			GRIFFIN PIPE
5" TEE	1 EA			AMERICAN HOLO CONTROL
CONCRETE (THRUST BLOCKS)	13 CY			CHRISTER CONCRETE
4" MANHOLE	6 EA			AMERICAN
8" SEWER (DIP)	501.6 LF	501.6 LF		JUN EAGLE
8" SEWER (PVC)	258.2 LF	258.2 LF		GRIFFIN PIPE
8" PLUG & BUTTRESS	1 EA			GRIFFIN PIPE
PAVEMENT REPLACEMENT	860 SY			C. J. MILLER
4" D.I.P. (WHC)	21 LF			GRIFFIN PIPE

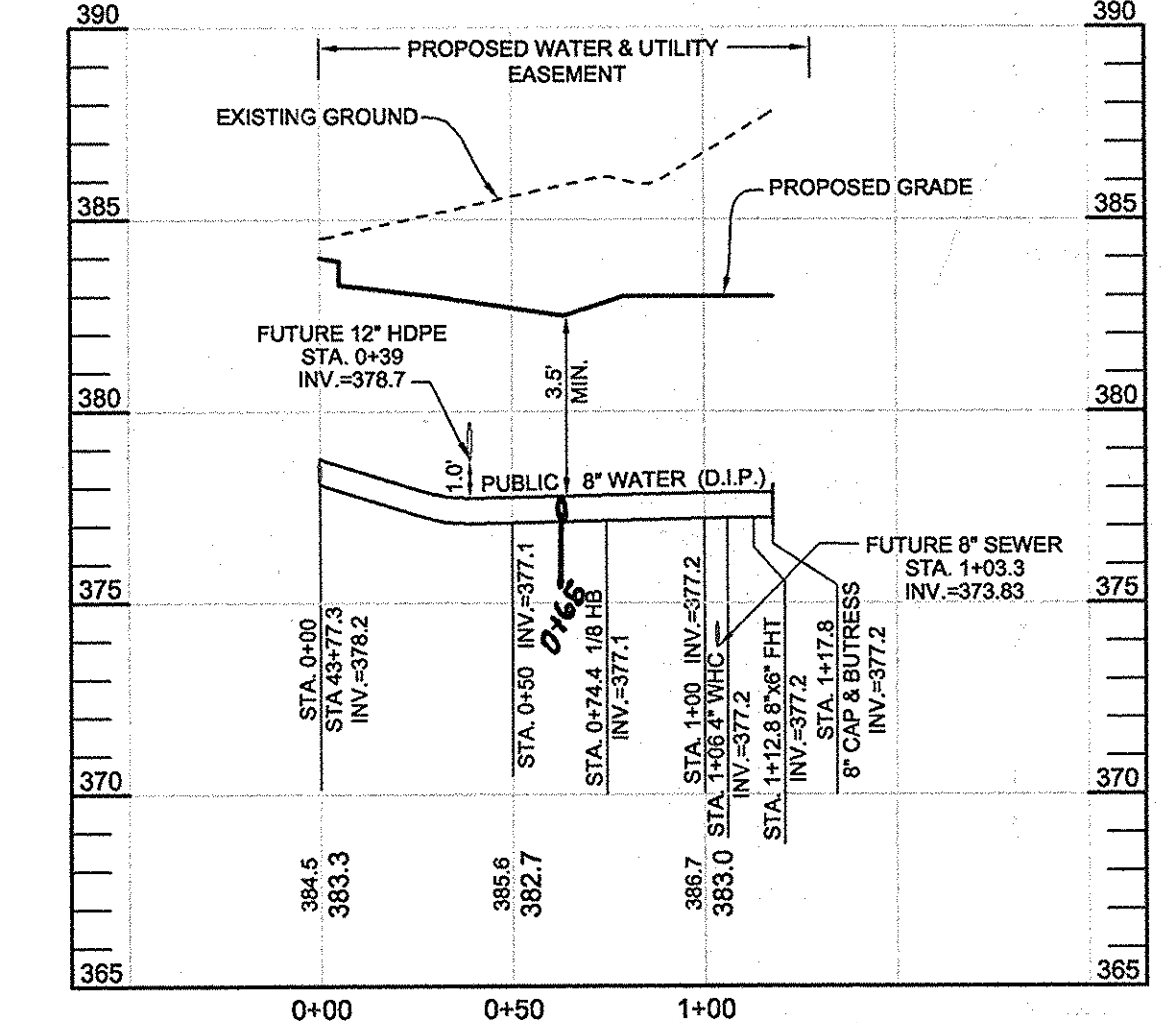
NOTE: 1) SITE IS CURRENTLY SERVICED BY PUBLIC WATER AND SEWER. ABANDONMENT OF WELL AND SEPTIC IS NOT REQUIRED.  
 2) 8" 6" TSSV, 6" 4" TSSV, AND THE WATER HOUSE CONNECTIONS ASSOCIATED WITH 3423 & 3425 MARTHA BUSH DRIVE HAVE BEEN EXCLUDED FROM THIS TABLE. SINCE THE TWO CONNECTIONS WILL BE INSTALLED UNDER THE ADO PROCESS. SEE GENERAL NOTE M.

**OWNER / DEVELOPER**  
 LINWOOD CENTER, INC.  
 ATTN: BILL MOSS  
 3421 MARTHA BUSH DRIVE  
 ELLICOTT CITY, MD 21043  
 410.465.1352

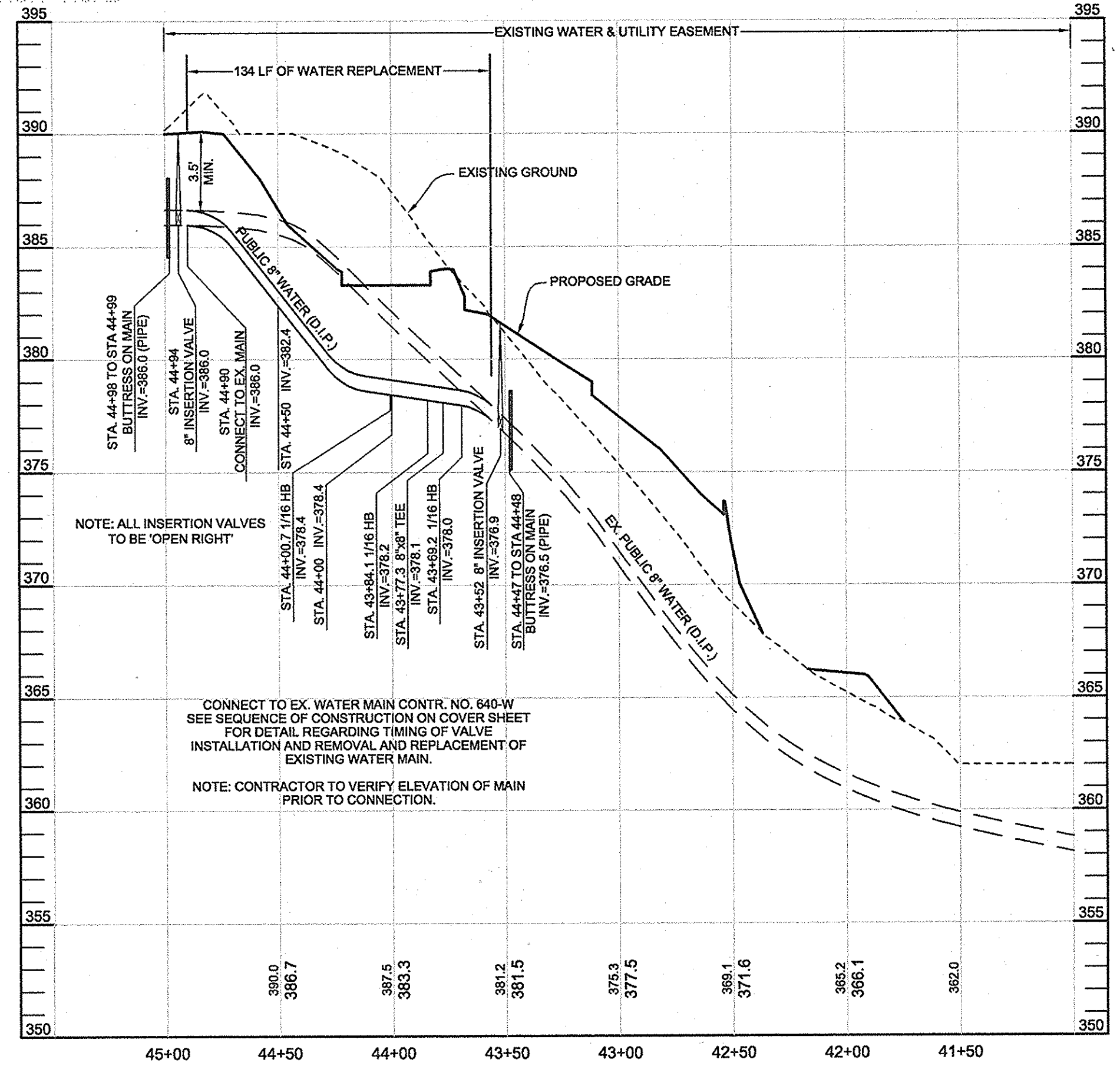


NO.	NORTHING & EASTING
EX. SMH 11	N 585,893.931 E 1,369,167.688
SMH 100	N 585,817.874 E 1,369,119.201
SMH 101	N 585,892.791 E 1,368,984.737
SMH 102	N 585,966.271 E 1,368,817.220
SMH 103	N 586,018.268 E 1,368,763.170
SMH 104	N 586,091.900 E 1,368,686.631
SMH 105	N 586,159.426 E 1,368,577.719

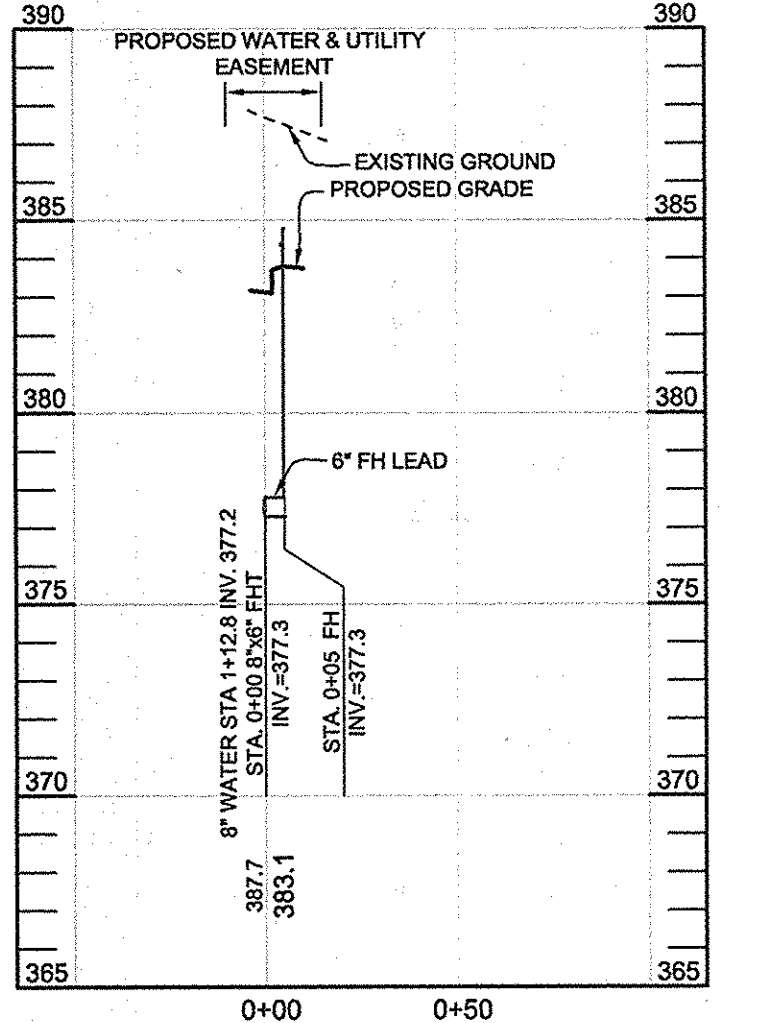
APPURTENANCE	ROAD STATION & OFFSET OR NORTHING & EASTING	APPURTENANCE	ROAD STATION & OFFSET OR NORTHING & EASTING
8" x 6" TS&V	N 586,298.468 E 1,368,479.132	TIE INTO EX. 8" WATER	N 586,394.553 E 1,368,323.464
8" x 4" TS&V	N 586,327.591 E 1,368,465.586	8" INSERTION VALVE	N 586,394.052 E 1,368,319.496
TIE INTO EX. 8" WATER	N 586,379.617 E 1,368,445.238	CENTERLINE OF THRUST BLOCK	N 586,393.466 E 1,368,315.032
CENTERLINE OF THRUST BLOCK	N 586,372.010 E 1,368,449.030	1/8" HB	N 586,452.851 E 1,368,482.089
8" INSERTION VALVE	N 586,376.037 E 1,368,447.022	6" x 6" TEE	N 586,454.366 E 1,368,479.889
1/16" HB	N 586,391.292 E 1,368,439.369	FHT	N 586,491.129 E 1,368,479.417
8" x 8" TEE	N 586,396.700 E 1,368,433.265	6" VALVE	N 586,491.269 E 1,368,481.412
1/16" HB	N 586,400.637 E 1,368,428.737	FH	N 586,491.477 E 1,368,484.405
1/16" HB	N 586,405.009 E 1,368,412.168	6" CAP & BUTTRESS	N 586,496.117 E 1,368,479.069



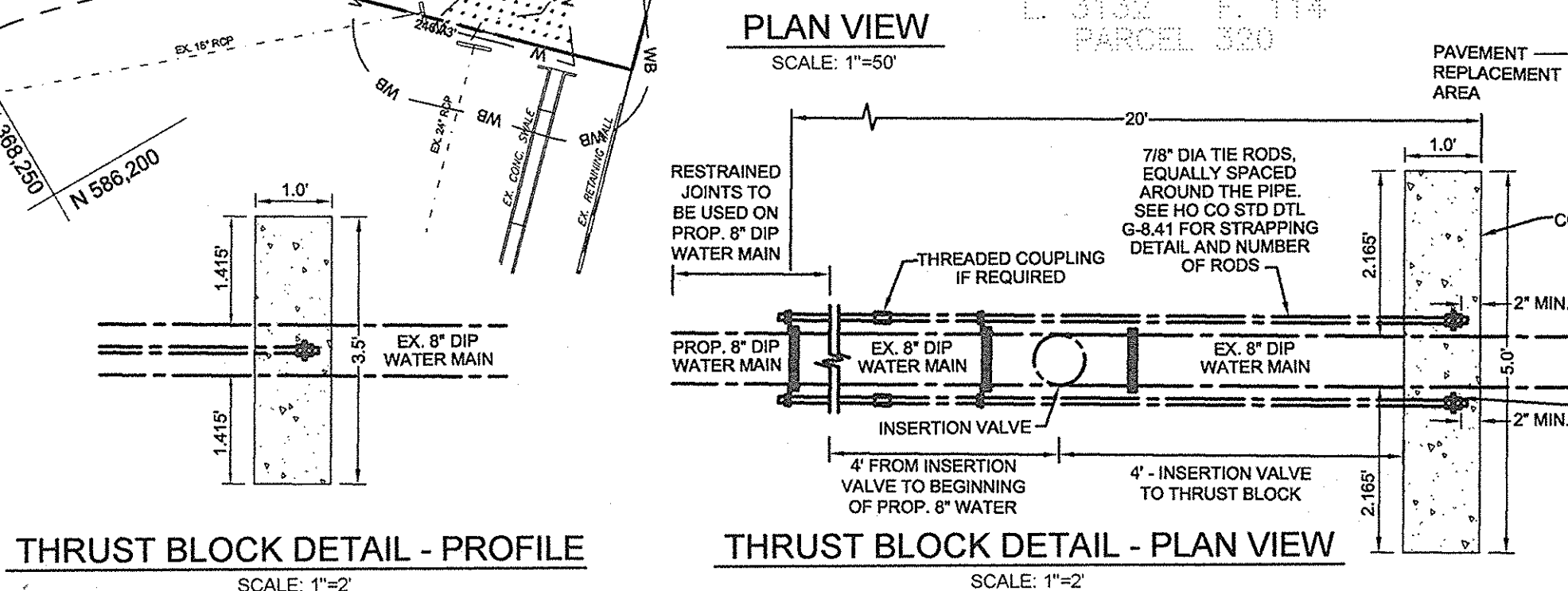
WATER MAIN A PROFILE  
HORIZONTAL SCALE: 1"=50'  
VERTICAL SCALE: 1"=5'



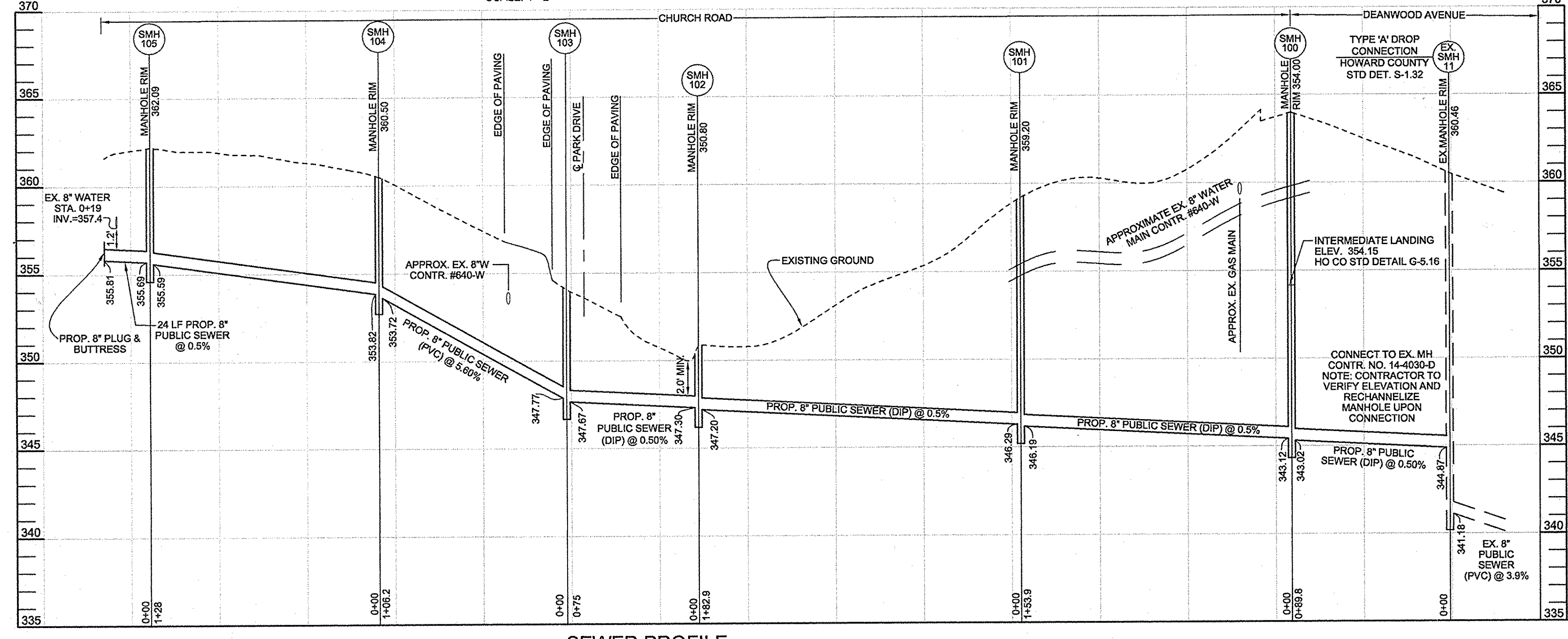
WATER MAIN RELOCATION PROFILE  
HORIZONTAL SCALE: 1"=50'  
VERTICAL SCALE: 1"=5'



FH LEAD PROFILE  
HORIZONTAL SCALE: 1"=50'  
VERTICAL SCALE: 1"=5'



THRUST BLOCK DETAIL - PROFILE  
SCALE: 1"=2'  
THRUST BLOCK DETAIL - PLAN VIEW  
SCALE: 1"=2'



SEWER PROFILE  
HORIZONTAL SCALE: 1"=50'  
VERTICAL SCALE: 1"=5'

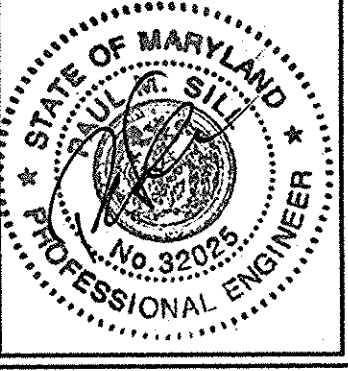
PLAN  
BUTTRESS DETAIL  
SCALE: 1"=2'

OWNER / DEVELOPER  
LINWOOD CENTER, INC.  
ATTN: BILL MOSS  
3421 MARTHA BUSH DRIVE  
ELlicOTT CITY, MD 21043  
410.465.1352

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
Sill, C. Co.  
CHIEF, BUREAU OF UTILITIES  
DATE: 10/14/12

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
Sill, C. Co.  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
DATE: 10/19/12

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@silland.com



DESIGNED BY: SJT  
DRAWN BY: SJT  
CHECKED BY: PS  
DATE: AUGUST 24, 2011

NO.	DESCRIPTION	DATE
2	AS BUILT	OCT. 1, 2012
1	Rev. SMH 100 to SMH 104 to avoid existing utilities	OCT. 09, 2012
NO.	REVISIONS	

WATER & SEWER  
PLAN AND PROFILE  
600' SCALE MAP NO. 25  
BLOCK NO. 1

LINWOOD CENTER, INC.  
3421, 3423, AND 3425 MARTHA BUSH DRIVE  
TAX MAP 25 GRID 1  
2ND ELECTION DISTRICT  
PARCELS 218 & 333  
HOWARD COUNTY, MARYLAND  
CONTRACT NO. 14-4705-D

SCALE:  
AS  
SHOWN  
SHEET NO.  
2 OF 3

21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOILS

DEFINITION

PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

PURPOSE

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETABLE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

CONDITIONS WHERE PRACTICE APPLIES

- I. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
A. THE TEXTURE OF THE EXPOSED SUBSOIL PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND NUTRIENTS.
C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.

CONSTRUCTION AND MATERIAL SPECIFICATIONS

I. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.

II. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:

- I. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND, OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR A SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF SANDERS, STONE, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIAL LARGER THAN 1/4" IN DIAMETER.
II. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERKUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSGRASS, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
III. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.

III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:

I. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

III. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:

- I. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:
A. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE PH TO 6.5 OR HIGHER.
B. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.
C. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
D. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DEGRADATION OF PHYTO-TOXIC MATERIALS.

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.

II. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

V. TOPSOIL APPLICATION

- I. WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SILT FENCE AND SEDIMENT TRAPS AND BASINS.
II. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALSEIT 4" HIGHER IN ELEVATION.
III. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" SOIL LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SOODING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
IV. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDING PREPARATION.

SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSE AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855).
2. ALL VEGETATION AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THERE TO.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1, (B) 14 DAYS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4. ALL SEDIMENT TRAP BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING, AND MULCHING (SEC. C). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.

DEVELOPER'S CERTIFICATE: I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL... SIGNATURE OF DEVELOPER: JOHN BOENDER, PRESIDENT, LINWOOD CENTER, INC. DATE: 9/6/11

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND. SIGNATURE OF CHIEF, BUREAU OF UTILITIES: Stephanie Tuite, RLA, PE. DATE: 9/20/11

6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

7. SITE ANALYSIS:

Table with 2 columns: Category and Value. TOTAL AREA: 0.28 ACRES. AREA TO BE ROOFED OR PAVED: 0.28 ACRES. AREA TO BE VEGETATIVELY STABILIZED: 0.07 ACRES. TOTAL CUT: 3,500 CY. TOTAL FILL: 3,500 CY. OFFSITE WASTE/BORROW AREA LOCATION: (blank)

8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

- 9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACKFILLED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER. EARTHWORK QUANTITIES ARE SOLELY FOR THE PURPOSE OF CALCULATING FEES. CONTRACTOR TO VERIFY ALL QUANTITIES PRIOR TO THE START OF CONSTRUCTION.
\*\* TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES

- 1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL AT THE TIME OF SEEDING. APPLY 400 LBS PER ACRE 30-0-40 UREA/FORAM FERTILIZER (6 LBS/1000 SQ.FT.).
2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND APPLY 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (14 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 1 LBS PER ACRE (6 LBS/1000 SQ.FT.) OF WEeping LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY OPTION (1) 2 TONS PER ACRE WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

TEMPORARY SEEDING NOTES

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.)

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 1 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (2 LBS/1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEeping LOVEGRASS (0.07 LBS/1000 SQ.FT.). FOR THE PERIOD NOVEMBER 1 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OR USE SOD.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

SEQUENCE OF CONSTRUCTION

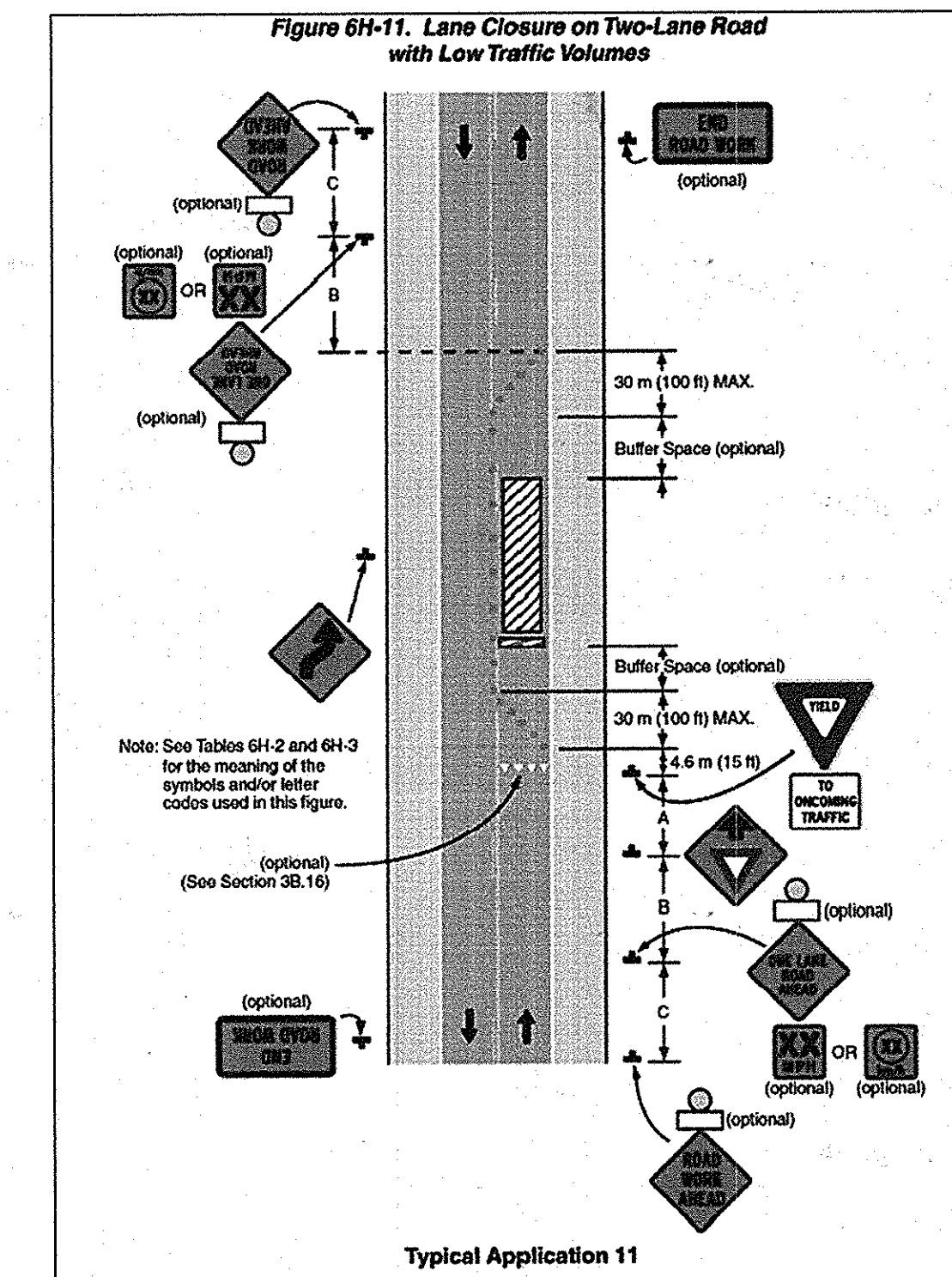
- 1. OBTAIN GRADING PERMIT.
2. NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSE AND PERMITS AT (410) 313-1880 AT LEAST 24 HOURS BEFORE STARTING ANY WORK.
3. SETUP TRAFFIC CONTROL SIGNAGE PER FIGURE 6H-11 THIS SHEET FOR INSTALLATION OF SEWER MAIN ALONG CHURCH ROAD. (1 DAY)
4. INSTALL SILT FENCE AND SUPER SILT FENCE AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR AND CLEAR SITE. (2 DAYS)
5. FOLLOW SEPARATE SEQUENCES OF CONSTRUCTION BELOW FOR THE WATER AND SEWER MAINS.
6. STABILIZE ALL DISTURBED AREAS. UPON STABILIZATION OF ALL DISTURBED AREAS, INCLUDING MULCHING, AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL MEASURES AND STABILIZE ANY REMAINING DISTURBED AREA. (2 DAYS)
NOTE: - ANY WORK THAT IS NOT COMPLETED THE SAME DAY SHALL BE TEMPORARILY COVERED OR BACKFILLED UNTIL CONSTRUCTION RESUMES. EXCAVATED SOIL SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCH OR IN STOCKPILE AREAS AND SILT FENCE SHALL BE ADJ. ALONG THE DOWNSTREAM SIDE OF THE TRENCH UNLESS OTHERWISE DIRECTED BY THE SEDIMENT CONTROL INSPECTOR.
- FOLLOWING INITIAL SOIL DISTURBANCE OR ANY REDISTURBANCES, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
A. 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES AND ALL SLOPES GREATER THAN 3:1.
B. 14 CALENDAR DAYS FOR ALL OTHER DISTURBED AREAS.
- DURING GRADING AND AFTER EACH RAINFALL, CONTRACTOR WILL INSPECT AND PROVIDE NECESSARY MAINTENANCE TO THE SEDIMENT CONTROL MEASURES ON THIS PLAN.

WATER MAIN CONSTRUCTION

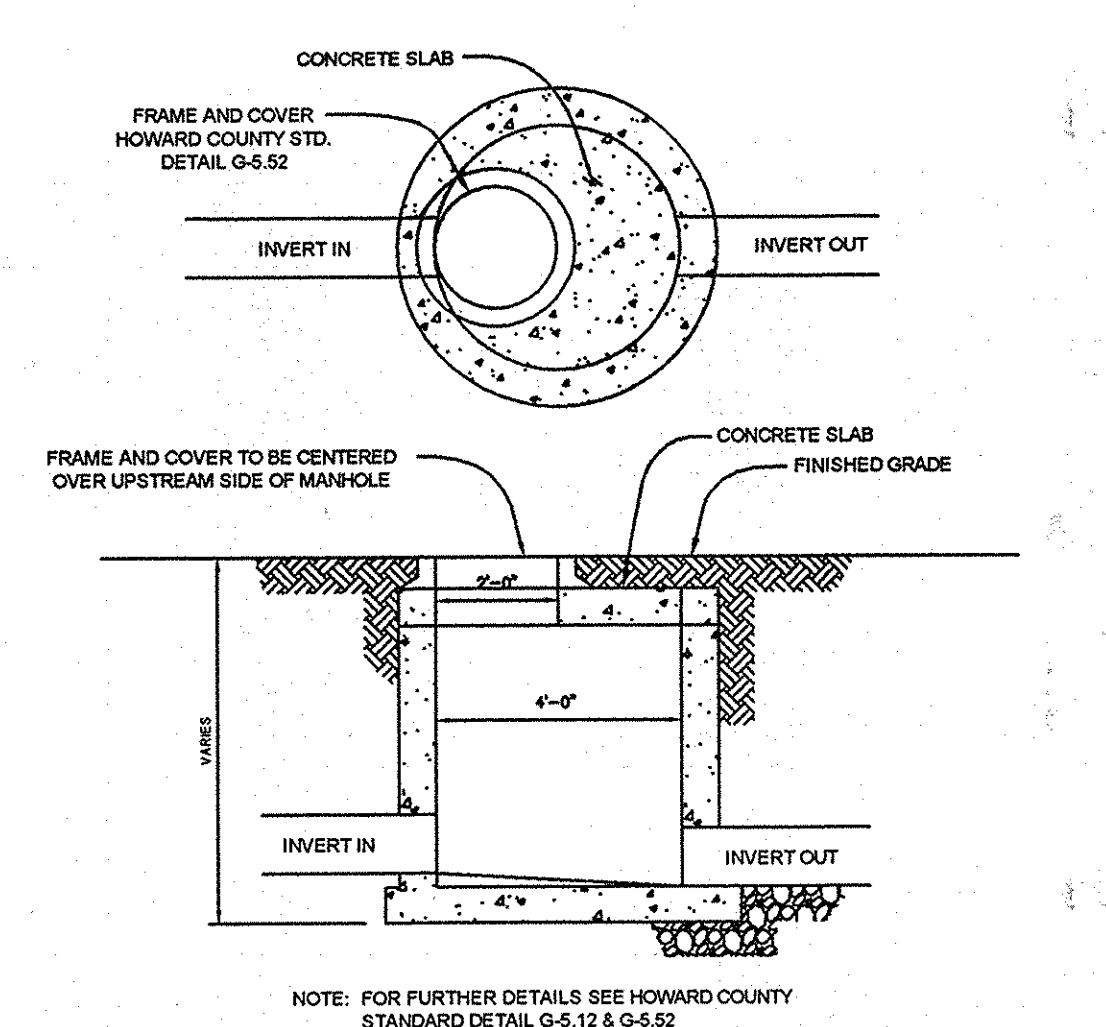
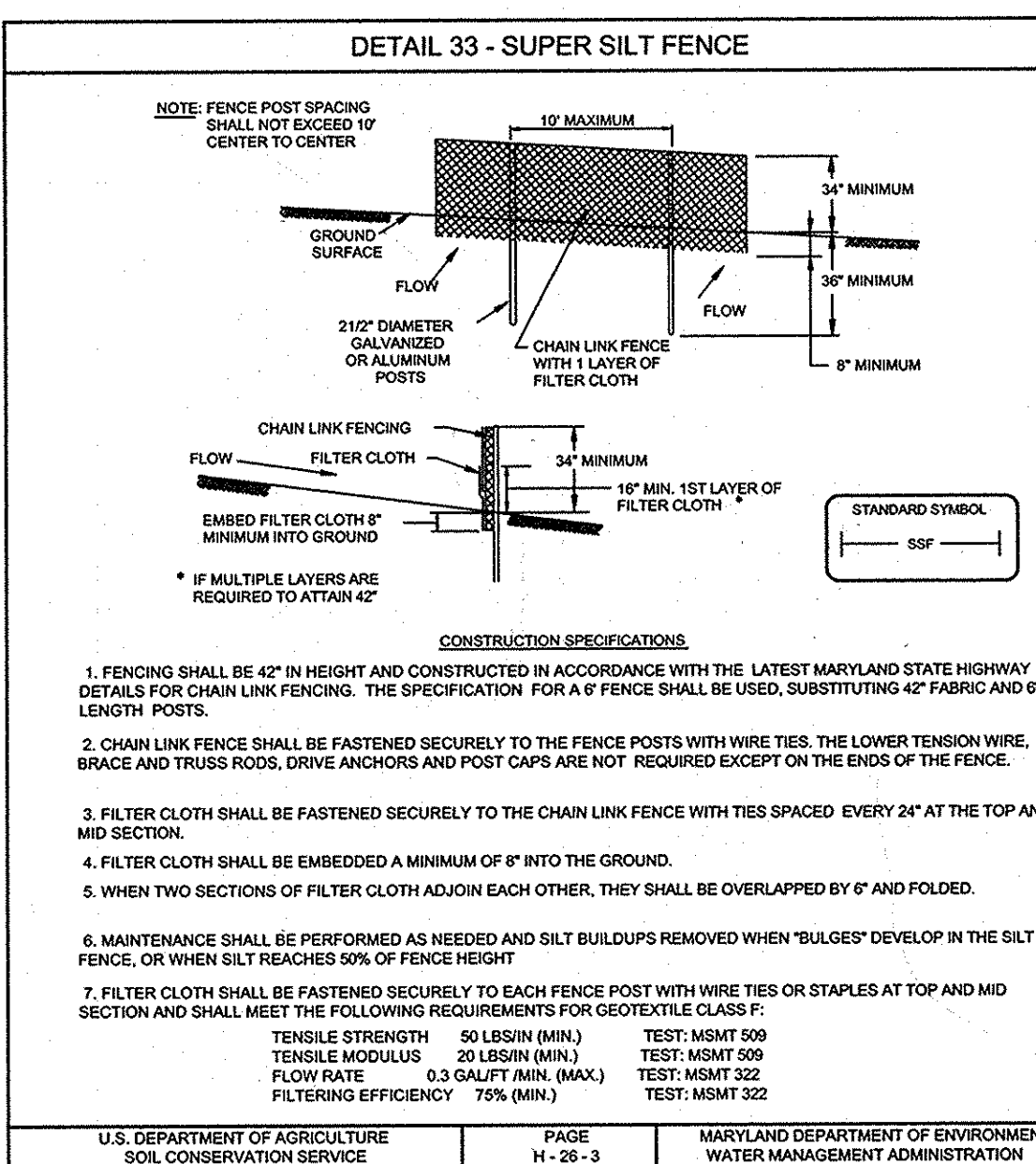
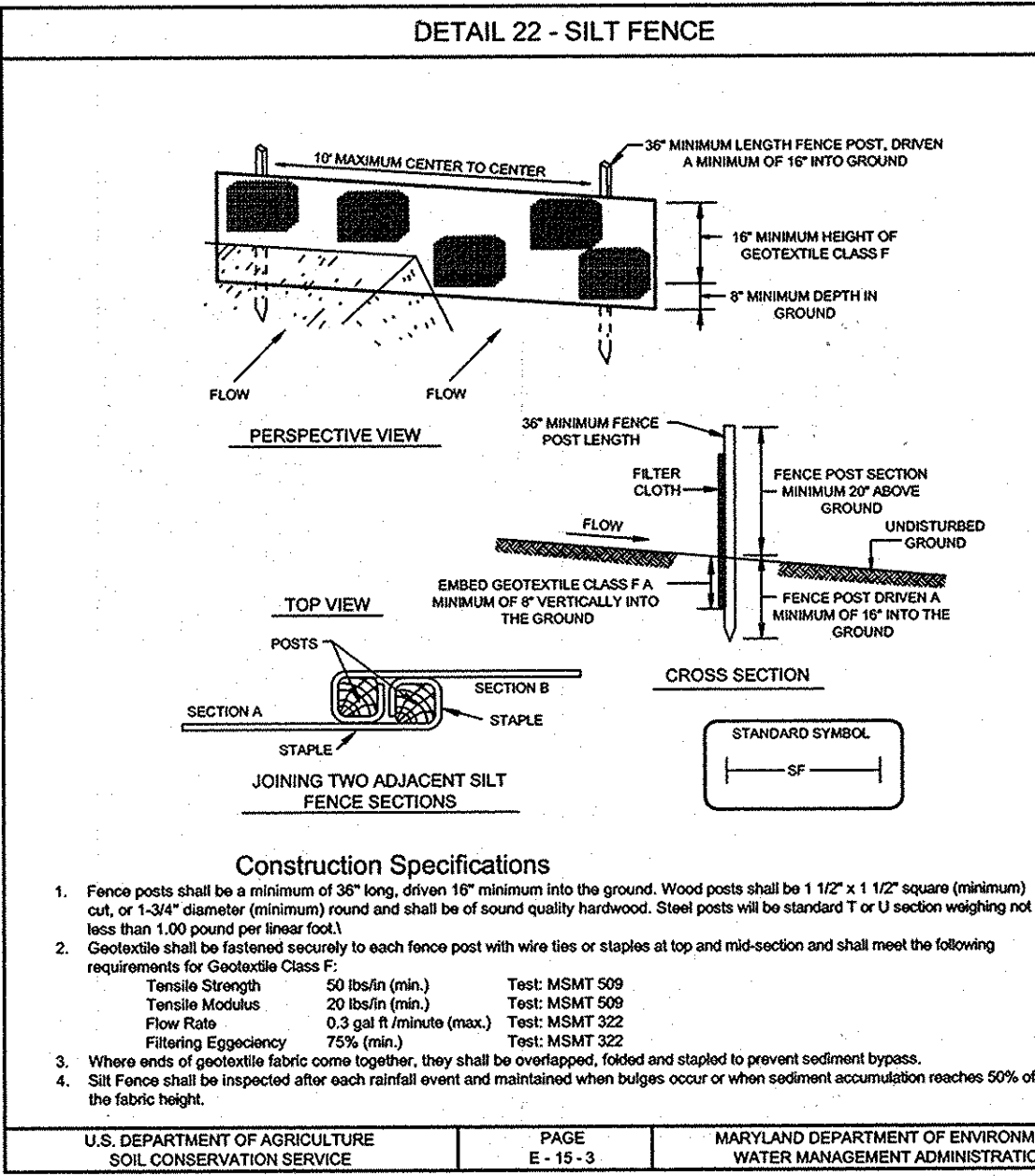
- 1. THRUST BLOCK TO BE PROVIDED IN ACCORDANCE WITH THRUST BLOCK DETAIL SHEET 2. ALLOW 1 WEEK DURING TIME PRIOR TO CONTINUATION OF WORK. (8 DAYS)
2. INSTALL TWO 8" INJECTION VALVES IN LOCATIONS SHOWN ON SHEET 2. VALVES SHALL BE RESTRAINED TO MAIN AND ANCHORED WITH THREADED RODS TO THE THRUST BLOCKS IN ACCORDANCE WITH THE DETAIL ON SHEET 2. (1 DAY)
3. UPON APPROVAL OF THE INSPECTOR, SHUT OFF TWO NEW VALVES AND REMOVE EXISTING WATER MAIN BETWEEN STA 43+56 AND STA 44+90 AND INSTALL NEW 8" WATER MAIN IN SAME TRENCH PER PROFILE SHEET 2. STANDARD BUTTRERING FOR BENDS, TEES, AND CAP WILL BE REQUIRED IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAILS W-2.21 AND W-2.23. ALSO INSTALL 8" WATER MAIN, 6" WHC, WATER METER, AND FIRE HYDRANT PER HOWARD COUNTY STANDARD DETAIL W-1.11 AND PROVIDE STANDARD MECHANICAL RESTRAINTS AND BUTTRERING. CONTRACTOR TO VERIFY SIZE OF EXISTING SERVICE PIPING TO EXISTING WATER METER PRIOR TO INSTALLATION OF 6" WHC. (8 DAYS)
4. FOLLOW SHUT OFF PROCEDURES THIS SHEET FOR DISCONNECTION OF EXISTING 8" WATER SERVICE TO 3421 MARTHA BUSH DRIVE AND BLOCKING AT MAIN. EX. VALVE IN MARTHA BUSH DRIVE (AT CONTR. NO. 14-3319-D) FOR MAIN SERVICING GOVERNORS RUN SUBDIVISION TO BE SHUT OFF FOR DISCONNECTION. UPON DISCONNECTION AND BLOCKING AND WITH THE APPROVAL OF THE INSPECTOR, OPEN VALVE ALONG MARTHA BUSH DRIVE AND RESTORE SERVICE TO GOVERNOR'S RUN SUBDIVISION. RETN EXISTING WATER METER. REMOVED TO THE BUREAU OF UTILITIES. (1 DAY)
5. REMOVE EXISTING 8" WATER MAIN SERVICE PIPING TO EXISTING WATER METER AND INSTALL NEW CONNECTION TO NEWLY INSTALLED 8" WHC SHOWN ON SHEET 2. (1 DAY)
6. UPON APPROVAL OF INSPECTOR, OPEN NEW ON-SITE VALVES AND RESTORE SERVICE TO 3421 MARTHA BUSH DRIVE.

SEWER MAIN CONSTRUCTION

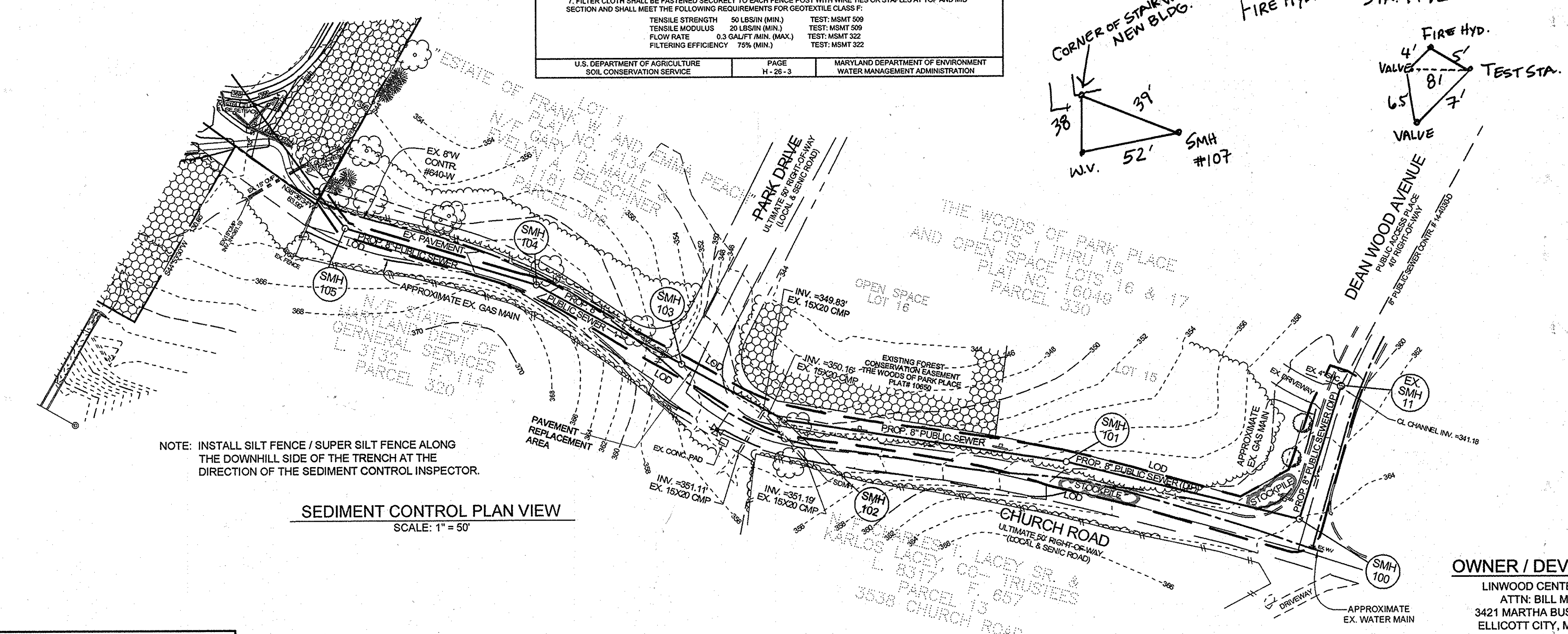
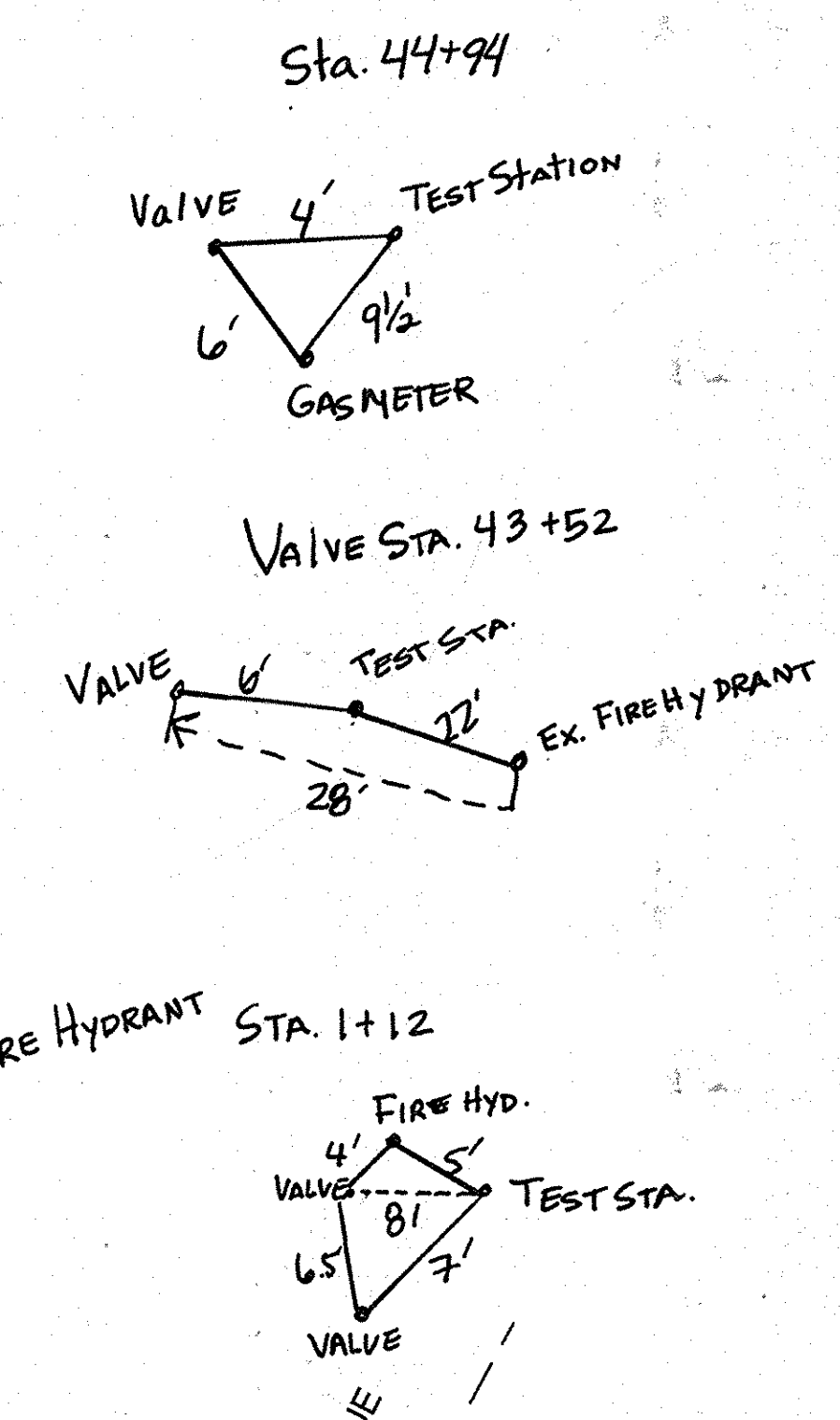
- 1. COORDINATE LANE CLOSURE AND TRAFFIC CONTROL ALONG CHURCH ROAD WITH THE INSPECTOR. CLOSE A PORTION OF CHURCH ROAD. INSTALL THE SEWER MAIN BETWEEN EXISTING MANHOLE 11 AND PROPOSED SEWER MANHOLE 102. (2 WEEKS)
2. SINCE THE SEWER CONSTRUCTION BETWEEN SEWER MANHOLE 102 AND 104 IS IN A DEAD END SECTION OF CHURCH ROAD THAT HAS NO DRIVEWAYS ACCESSING IT, NO TRAFFIC CONTROL IN THIS AREA WILL BE REQUIRED. CONSTRUCT SEWER MAIN ALONG REMAINDER OF CHURCH ROAD IN ACCORDANCE WITH THE PLANS.
3. UPON STABILIZATION AND WITH PERMISSION OF THE INSPECTOR ALL SEDIMENT CONTROLS SHALL BE REMOVED.



Typical Application 11



NOT TO SCALE



SEDIMENT & EROSION CONTROL NOTES & DETAILS. 600' SCALE MAP NO. 25. BLOCK NO. 1. LINWOOD CENTER, INC. 3421, 3423, AND 3425 MARTHA BUSH DRIVE. CONTRACT NO. 14-4705-D. SCALE: AS SHOWN. SHEET NO. 3 OF 3.

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@sasland.com. PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 35356, EXPIRATION DATE: JANUARY 12, 2012.

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND. SIGNATURE OF CHIEF, DEVELOPMENT ENGINEERING DIVISION: Stephanie Tuite, RLA, PE. DATE: 9/22/11.