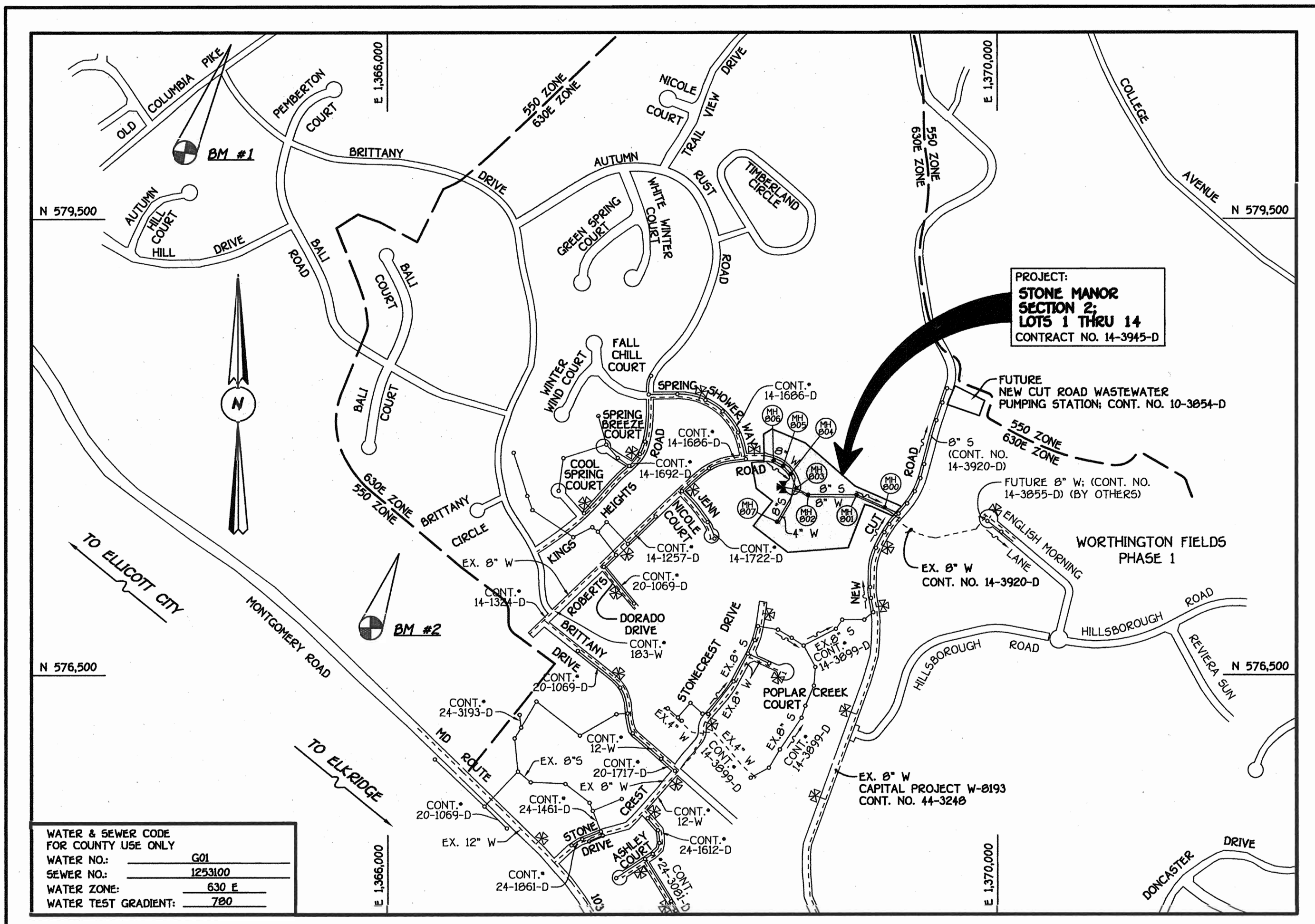


| QUANTITIES | | | | |
|--------------------------------|--------------|------------|------|----------|
| ITEM | ESTIMATED | AS-BUILT | | SUPPLIER |
| | | QUANTITIES | TYPE | |
| 8" WATER | 1,057.12 LF. | 1037 | | GRIFFIN |
| 6" WATER | 48 LF. | 48 | | |
| 4" WATER | 230.01 LF. | 228 | | |
| 1" WATER | 259 LF. | | | |
| FIRE HYDRANTS | 1 EACH | 1EA. | | |
| 8" X 8" TAPPING SLEEVE & VALVE | 1 EACH | 1EA. | | GRIFFIN |
| 8" X 6" TEE | 1 EACH | 1EA. | | |
| 8" X 4" REDUCER | 1 EACH | 1EA. | | |
| 8" VALVES | 1 EACH | 1EA. | | |
| 6" VALVES | 1 EACH | 1EA. | | |
| 8"-1/8" H.B. | 1 EACH | 1EA. | | |
| 8"-1/16" H.B. | 4 EACH | 4EA. | | |
| 8"-1/32" H.B. | 5 EACH | 5EA. | | |
| 4"-1/16" H.B. | 1 EACH | 1EA. | | |
| 8"-1/16" V.B. | 1 EACH | 1EA. | | |
| 8"-1/32" V.B. | 1 EACH | 1EA. | | |
| 4" PLUG & BUTTRESS | 1 EACH | 1EA. | | GRIFFIN |
| 8" SEWER | 940.77 LF. | 915 | | GRIFFIN |
| 8" SEWER (D.I.P.) | 228.82 LF. | 205 | | GRIFFIN |
| 4" SEWER | 305 LF. | 279 | | |
| MANHOLES | 8 EACH | 8EA. | | ATLANTIC |

NAME OF UTILITY CONTRACTOR: CCS
 SURVEY & DRAFTING DIVISION AS-BUILT DATE: 3/17/03



| | | | | |
|---|--|------------------------------------|------------------------------------|--------------------------|
| WATER & SEWER CODE FOR COUNTY USE ONLY | WATER NO.: G01 | SEWER NO.: 1253100 | WATER ZONE: 530 E | WATER TEST GRADIENT: 780 |
| TYPE OF BUILDING: RESIDENTIAL: SINGLE FAMILY DETACHED | NUMBER OF LOTS & PARCELS: 14 (2 BUILDABLE) | NO. OF WATER HOUSE CONNECTIONS: 12 | NO. OF SEWER HOUSE CONNECTIONS: 12 | DRAINAGE AREA: PATAPSCO |
| TREATMENT PLANT: PATAPSCO WASTEWATER TREATMENT PLANT VIA THE NEW CUT ROAD PUMPING STATION | | | | |

VICINITY MAP
SCALE: 1"=600'

PLAN REFERENCE NUMBERS: F01-H, F02-06

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, NAD 83.
- ALL VERTICAL CONTROLS ARE BASED ON NAVD 29.
- ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-0" MINIMUM.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE 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 VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO THE EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - AT&T 1-800-526-2000
 - BGE (CONTRACTOR SERVICES) 410-850-4820
 - BGE (UNDERGROUND DAMAGE CONTROL) 410-787-9096
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 410-313-4900
 - BELL ATLANTIC MARYLAND, INC. 1-800-821-9900
 - COLONIAL PIPELINE CO. 410-795-1390
 - MISS UTILITY 1-800-257-7777
 - STATE HIGHWAY ADMINISTRATION 410-531-5533
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- 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 THE CONSTRUCTION OF THE MAIN.
- 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.
- T.B. DENOTES TEST BORING.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G5.52.
- WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIFICATIONS.
- HOUSES WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS, STANDARD DETAIL G5.51.
- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- ALL WATER MAINS SHALL BE D.I.P. CLASS 92 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TREES SHALL BE STRAPPED TO TREES.
- 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 ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (W11 AND W2.13). 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 MAIN SYSTEM.
- ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH THE AWWA SPECIFICATIONS C-153; DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, (410) 313-2450 AT LEAST FIVE (5) WORKING DAYS BEFORE ANY OPEN CUT OR ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS 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.

DEVELOPER'S CERTIFICATION
 I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE 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 OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Paul W. Reichel FOR: 04/30/02
 LAND DESIGN & DEVELOPMENT, LLC DATE
 SIGNATURE OF DEVELOPER

ENGINEER'S CERTIFICATION
 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.

Paul W. Reichel 04-30-02
 SIGNATURE OF ENGINEER DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Jim Meyer 5/21/02
 U.S.D. NATURAL RESOURCES CONSERVATION SERVICE DATE

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

APPROVE: John K. Richter 5/21/02
 HOWARD SOIL CONSERVATION DISTRICT DATE

SEDMIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND AS SHOWN ON F02-06 AND ON THESE PLANS.

Paul W. Reichel FOR: 04/30/02
 LAND DESIGN & DEVELOPMENT, LLC DATE
 SIGNATURE OF DEVELOPER

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

5-13-02
 DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

5/1/02
 DATE

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 1000 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21114
 (410) 481-2895

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 TERRELL K. FISHER

| | |
|--------------|--|
| DESIGNED BY: | P.W.K. |
| DRAWN BY: | M.D.T. |
| CHECKED BY: | P.W.K. |
| DATE: | MAY, 2002 |
| BY NO. | KCI 1 |
| REVISION | AS-BUILT DATA ADDED TO PLAN (ALL SHEETS) |

| | |
|--|--------------|
| TITLE SHEET | |
| 600' SCALE MAP NO. 25 | BLDCK NO. 19 |
| F.C.C. WORK ORDER NO. 30612 | |
| FILE NAME: 30615 FINAL WATER AND SEWER TITLE SHEET | |

STONE MANOR
 SECTION 2; LOTS 1 THRU 14
 CONTRACT NO. 14-3945-D
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 1 OF 6

CONTRACT NO. 14-3945-D
 STONE MANOR
 SECTION 2; LOTS 1 THRU 14
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND