

3290 WS/1 ST. JOHNS LANE SEWER EXT. C.P. #S-6693

**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 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 AS REQUIRED. THE OWNER HAS CONTACTED 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 MONEY OWED TO 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 DETAILS FOR CONSTRUCTION. 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 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.
 

C&P TELEPHONE	597-8585
STATE HIGHWAY ADMINISTRATION	531-5533
BALTIMORE GAS & ELECTRIC CO. SERVICES	850-4620
BALTIMORE GAS & ELECTRIC CO. UNDER GROUND DAMAGE CONTROL	859-9004
BALTIMORE GAS & ELECTRIC CO. TROUBLE SHOOTING	298-9001
MISS UTILITY	1-800-257-7777
COLONIAL PIPELINE	795-1390
BUREAU OF UTILITIES, HOWARD COUNTY DEPT. OF PUBLIC WORKS	313-4900
- 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 LINE OF EXCAVATION PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN AND SERVICE CONNECTIONS.
- ALL SEWER MAINS TO BE C.S.P.X., R.C.S.P., V.C.P.X., OR P.V.C. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- TRENCH REPAIR TO BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAILS.
- ALL WORK BE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL SECTION 219.
- LENGTH OF OPEN TRENCH WILL BE LIMITED TO THAT WHICH CAN BE FILLED AND STABILIZED WITHIN ONE WORKING DAY.

**PERMANENT SEEDING NOTES**

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

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING 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 DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ FT.).
- 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ FT.) BEFORE SEEDING. HARROW OR DISK 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 (1.4 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 2 LBS PER ACRE (.05 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 OF 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 (5 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.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

**TEMPORARY SEEDING NOTES**

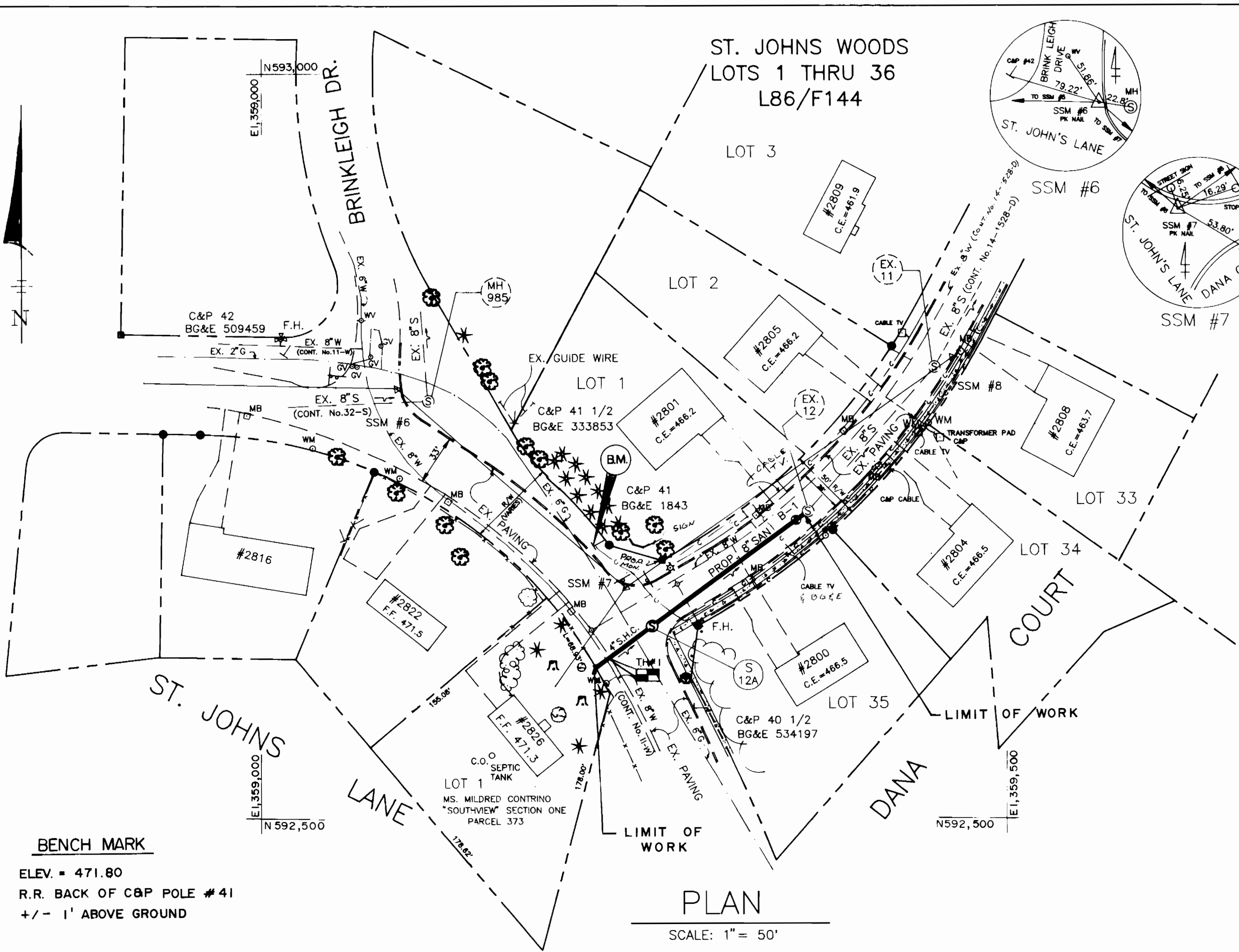
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

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

SOIL AMENDMENTS: - APPLY 60 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT.). SEEDING: - FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ FT.). FOR THE PERIOD NOVEMBER 16 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 GAL PER ACRE (5 GAL/1000 SQ FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ FT.) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



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

**BENCH MARK**

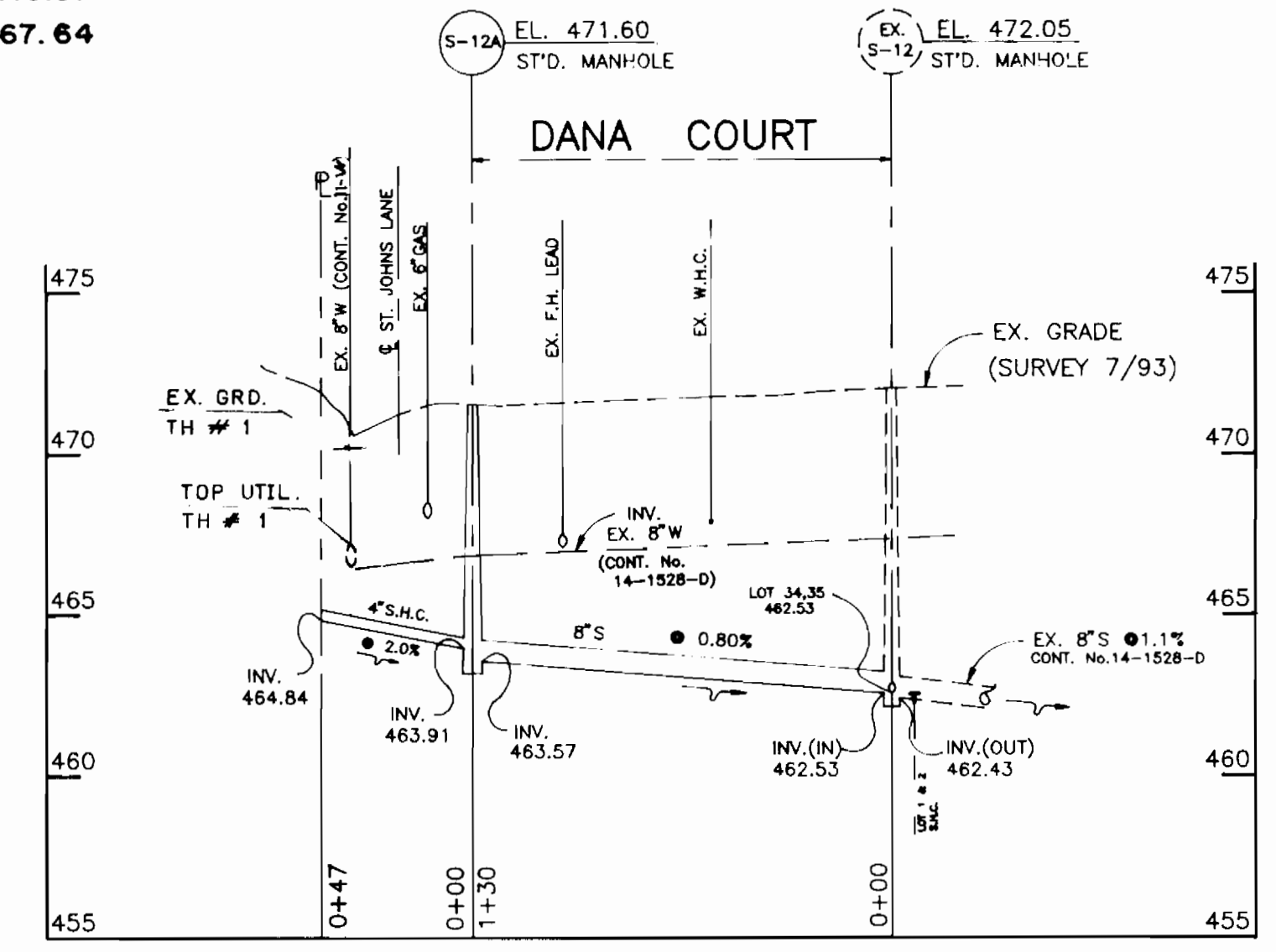
ELEV. = 471.80  
R.R. BACK OF C&P POLE #41  
+/- 1' ABOVE GROUND

**TEST HOLE**

#1 - AUG. 19, 1993  
EX. GROUND ELEV. 470.57  
TOP EX. 8" W. ELEV. 467.64

**SURVEY CONTROL**

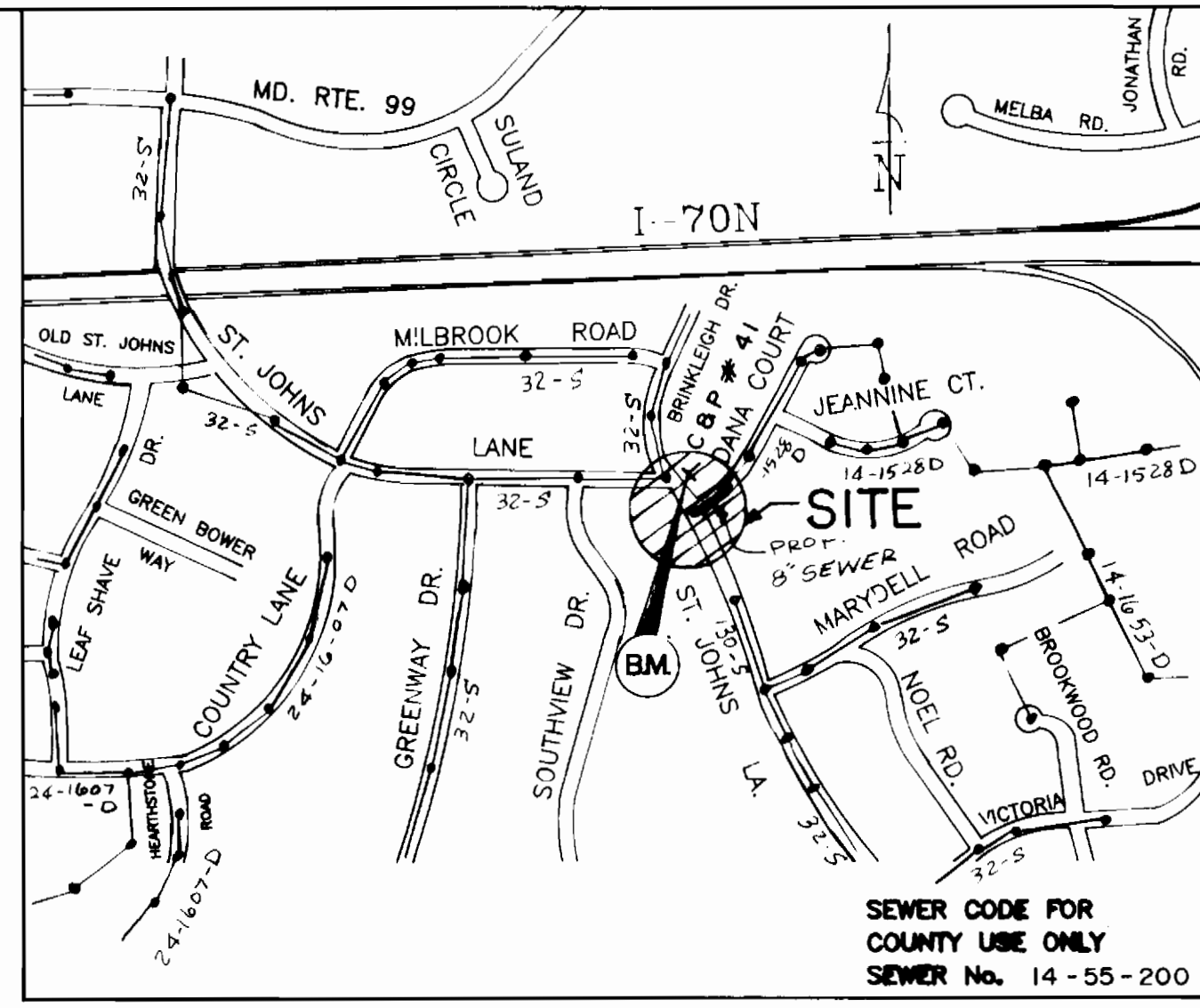
1. HOWARD COUNTY STATION 17EA  
NORTH(83): 594,357.629(FT.)  
EAST (83): 1,357,519.340(FT.)  
ELEV. : 479.482
2. HOWARD COUNTY STATION 17EB  
NORTH(83): 593,813.908(FT.)  
EAST (83): 1,355,731.852(FT.)  
ELEV. : N/A



**PROFILE**  
SCALE: HORZ.: 1" = 50'  
VERT.: 1" = 5'

**SEQUENCE OF CONSTRUCTION**

1. CONTACT HOWARD COUNTY BUREAU OF CONSTRUCTION INSPECTION (313-1870) PRIOR TO STARTING DATE.
2. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS PER SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL VOL. IV.
3. EXCAVATE AND INSTALL PROPOSED 8" SEWER MAIN AND 4" S.H.C.
4. RESTORE PAVING AND EARTH TRENCHES TO THEIR ORIGINAL CONDITION AS PER HOWARD COUNTY STANDARDS.
5. UPON PERMISSION FROM HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES.
6. FINE GRADE ALL DISTURBED AREAS AND STABILIZE WITH PERMANENT SEEDING.



**VICINITY MAP**  
SCALE: 1" = 600'

TYPE OF BUILDING: RESIDENTIAL  
NO. OF S.H.C.: 1  
DRAINAGE AREA: PATAPSCO

**QUANTITIES**

ITEM	UNIT	ESTIMATE	AS-BUILT	MATERIAL SUPPLIER
8" SEWER	L.F.	130		
STD MANHOLE	EA.	1		
4" S.H.C.	L.F.	47		

**RESTORATION SCHEDULE**

LOCATION	DISTANCE	TYPE
EX. MH-12 TO S-12A	130'	PAVING
STA. 0+47 (S.H.C.)	47'	36" PAVING, 11" SEED

**STAKEOUT SCHEDULE**

MANHOLE	DISTANCE	OFFSET
S-12A	SMM #7 TO SSM #8 STA. 0+00	RT. 31. 37

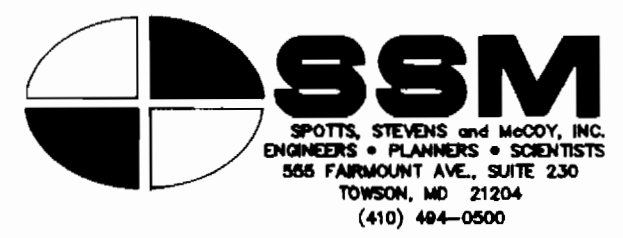
<p><b>DEVELOPER'S CERTIFICATION</b></p> <p>I, <i>Paul J. Szymon</i>, certify that all development and construction will be done according to this plan and that any responsible personnel involved in the construction project will have a certificate of the government approved training program for the control of sediment and erosion before beginning the project. I also authorize performing on-site inspection by the HOWARD SOIL CONSERVATION DISTRICT.</p> <p>DATE: 8/13/93</p> <p>REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.</p> <p>DATE: 8/17/93</p>	<p><b>ENGINEER'S CERTIFICATION</b></p> <p>I, <i>Paul J. Szymon</i>, 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 the government approved training program for the control of sediment and erosion before beginning the project. I also authorize performing on-site inspection by the HOWARD SOIL CONSERVATION DISTRICT.</p> <p>DATE: 8/17/93</p> <p>REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.</p> <p>DATE: 8/17/93</p>
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**DEPARTMENT OF PUBLIC WORKS**  
HOWARD COUNTY, MARYLAND

*James J. Szymon* 8/17/93  
DIRECTOR OF PUBLIC WORKS DATE

*Paul J. Szymon* 8/13/93  
CHIEF, BUREAU OF ENGINEERING DATE

*John W. Szymon* 8/17/93  
CHIEF, BUREAU OF UTILITIES DATE



DES. G.S.					
DRN. G.S.					
CHK. T.W.W.					
DATE: JAN. '93	BY	NO.	REVISION	DATE	

**8-INCH SEWER MAIN**  
**PLAN & PROFILE**

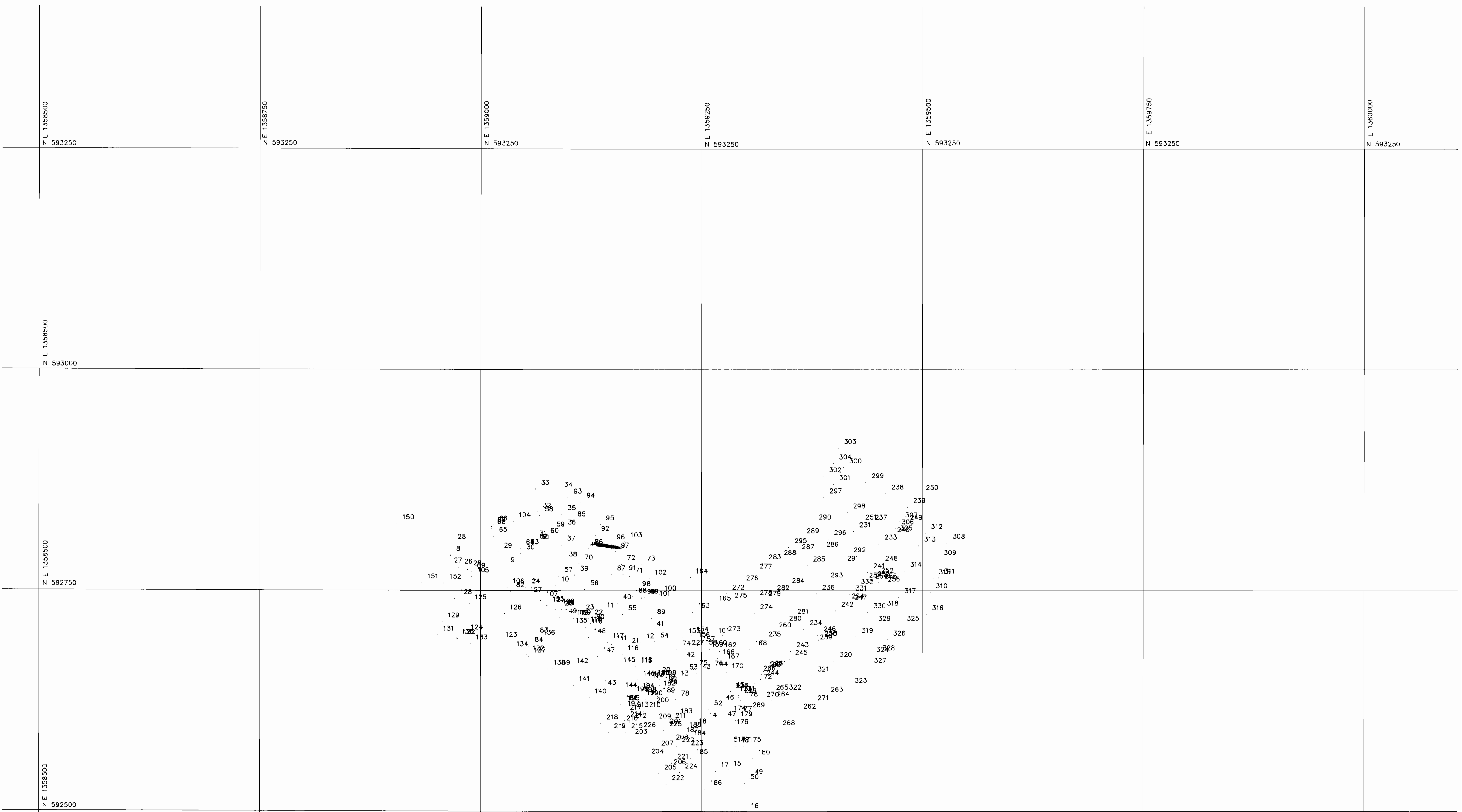
600' SCALE MAP NO. 17 BLOCK NO.

**ST. JOHNS LANE SEWER EXTENSION**

CAPITAL PROJECT: S-6693  
ELECTION DISTRICT: 2  
CONTRACT No.: 10 - 3290

SCALE: 1" = 50'  
SHEET: 1 OF 1

3290 ST. JOHNS LANE SEWER EXT. (POINT PLOT)



POINT PLOT  
HOWARD COUNTY  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF ENGINEERING  
SURVEY AND DRAFTING DIVISION

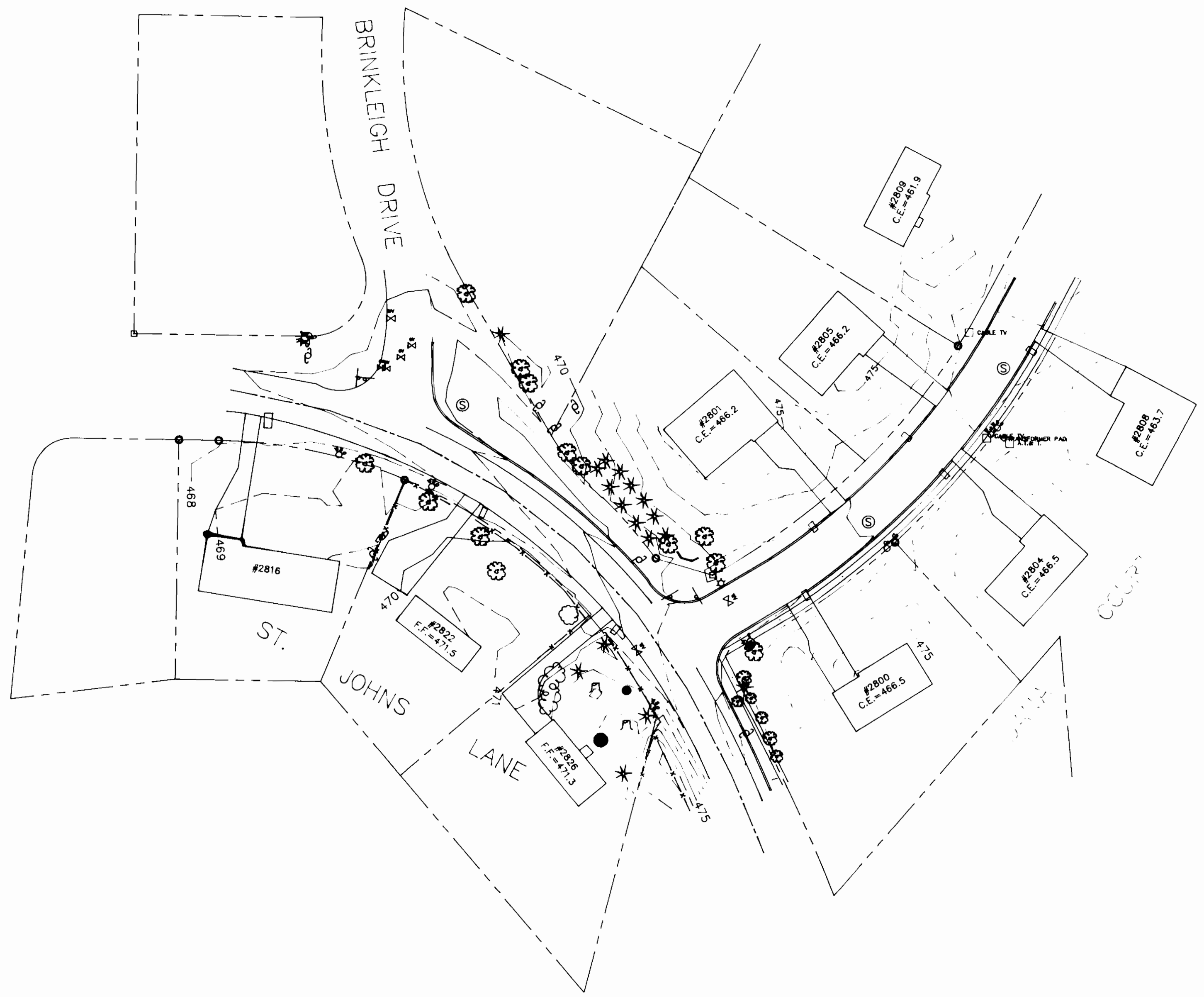
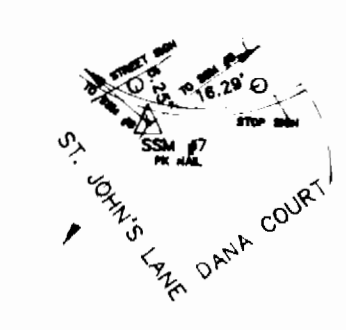
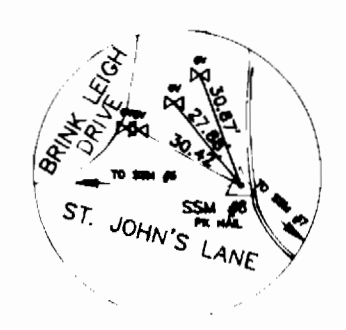
Scale : 1" = 50'

ST. JOHNS LN  
W/S 10-3290 5-6693

3290 St. Johns Lane & Dana Ct. (Topo Survey)

E 1358500  
N 593250

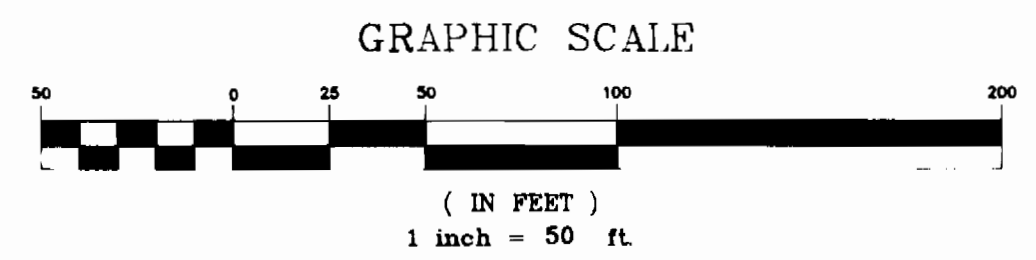
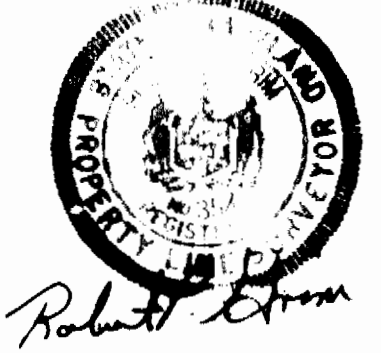
E 1359750  
N 593250



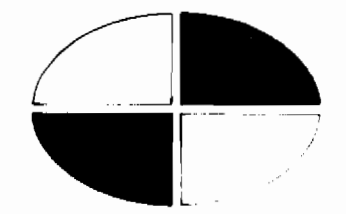
E 1358500  
N 592500

**SURVEYORS CERTIFICATION**

I, Robert P. Grim, certify that this Topographic Survey Plot is the actual record of the electronic data collection topographic survey performed by me or by personnel under my direct supervision. This plot is the original and final graphic representation of the field survey performed on or about JULY, 1993. This instruments used in this survey were, Theodolite: TOPCON, GTS-3B. Accuracy: Distance measurement, +/- (5mm + 5 ppm)m.s.e., Angular Measurement: Less than 3", Data Collector: Hewlett Packard, 48SX. This Topographic Survey Plot meets requisite accuracy as specified for this project by the Howard County, Department of Public Works.



**TOPOGRAPHIC SURVEY**  
of  
**ST. JOHNS LANE & DANA COURT**  
**HOWARD COUNTY, MD.**

 <b>SSM</b> <small>SPOTTIS, STEVENS and MCGOY, INC.          ENGINEERS SURVEYORS SCIENTISTS          505 FARMINGDALE AVENUE, STE. 230          TOWSON, MARYLAND, 21286-5487          (410)484-0500 FAX (410)296-3580</small>	
GRIM	12 JULY '93
MADE	APPROVALS
CHECK	DATE
1" = 50'	5684 - 006
SCALE	DRAWING NUMBER
	REV.