

VICINITY MAP  
SCALE: 1" = 600'

SCALE  
PLAN: 1" = 50'

GENERAL NOTES

- PART I**
- 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 (NORTH AMERICAN DATUM OF 1983) NAD 83.
  - ALL VERTICAL CONTROLS ARE BASED ON U.S.C.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 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 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 1-410-531-5533
  - B&E CO. CONTRACTOR SERVICES 1-410-850-4620
  - B&E CO. UNDER GROUND DAMAGE CONTROL 1-410-787-9068
  - MISS UTILITY 1-800-257-7777
  - COLONIAL PIPELINE CO. 1-410-795-1390
  - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF UTILITIES 1-410-313-4900
- 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.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF 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 18.14(1A) OF THE HOWARD COUNTY CODE.

- PART II - WATER**
- 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 RESTRAINED 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.

- PART III - SEWER**
- ALL SEWER MAINS SHALL BE DIP AND 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. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL 05.52. 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.

BENCHMARK	DESCRIPTION
TR 905	N 504280.1630 E 838550.3680 ELEV. 381.500
TR 907	N 504400.6701 E 838647.7701 ELEV. 394.150

ELEVATIONS SHOWN HEREON ARE BASED ON THE FOLLOWING TRAVERSE STATIONS ESTABLISHED BY "FISHER, COLLINS AND CARTER, INC." (NGVD 29 VERTICAL DATUM)

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

*Cheryl K. Johnson* 01-23-97  
SIGNATURE DATE

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

*John R. Kolntner* 1/20/97  
APPROVED DATE

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-97-19

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

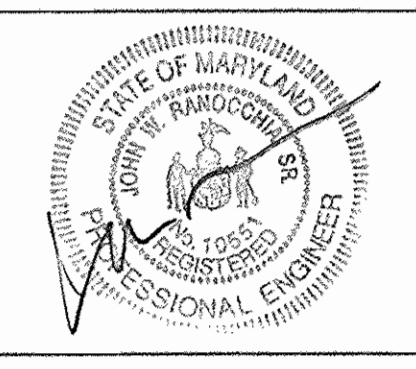
*Michael A. Guerinillo* 1-17-97  
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*John R. Kolntner* 1/24/97  
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

**DMW**  
Daft · McCune · Walker, Inc.

A Team of Land Planners, 200 East Pennsylvania Avenue  
Landscape Architects, Towson, Maryland 21286  
Engineers, Surveyors & Environmental Professionals 410 296 3333  
Fax 296 4705



DESIGN BY:	DATE:	BY NO.	REVISION	DATE
RLH /JWS	JAN 13, 1997			
DMW /Δ			RELOCATED FH + 8" W CONNECTION	6/9/97
KDE				7/2/97
CHECKED BY:				
JWR				

WATER AND SEWER PLAN  
VICINITY MAP AND GENERAL NOTES

600 SCALE MAP NO. 36 BLOCK NO. 1

As-Builts

SHEET INDEX	
NO.	DESCRIPTION
1	WATER AND SEWER PLAN, VICINITY MAP & GENERAL NOTES.
2	PROFILE OF WATER AND SEWER MAINS

ITEM	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" SEWER	430 LF	437 LF	SDR-95	JM Manufacturing
MANHOLES	14" VF	1 VF	Precast	Atlantic Concrete, Inc.
6" WATER	54 LF	61 LF	MJ 52	Atlantic States
8" WATER	66 LF	65 LF	MJ 52	Atlantic States
12" WATER	864 LF	914 LF	MJ 52	Atlantic States
6" VALVE	3	3	Gate	American Flow
8" VALVE	1	1	Gate	Mueller
12" VALVE	3	3	Gate	American Flow
FIRE HYDRANTS	3	3		American Flow/Mueller
12" TAPPING SLEEVE AND VALVE	1	1	Gate	American Flow

NAME OF UTILITY CONTRACTOR **Iacoboni**  
SURVEY AND DRAFTING DIVISION AS-BUILT DATE \_\_\_\_\_

**TOWN CENTER**  
SECTION 2 AREA 9 PHASE 224  
PARCEL A & B  
ELECTION DISTRICT 5  
CONTRACT NO. 24-3554-D

SCALE  
SEE  
PLAN  
SHEET  
1 OF 2

