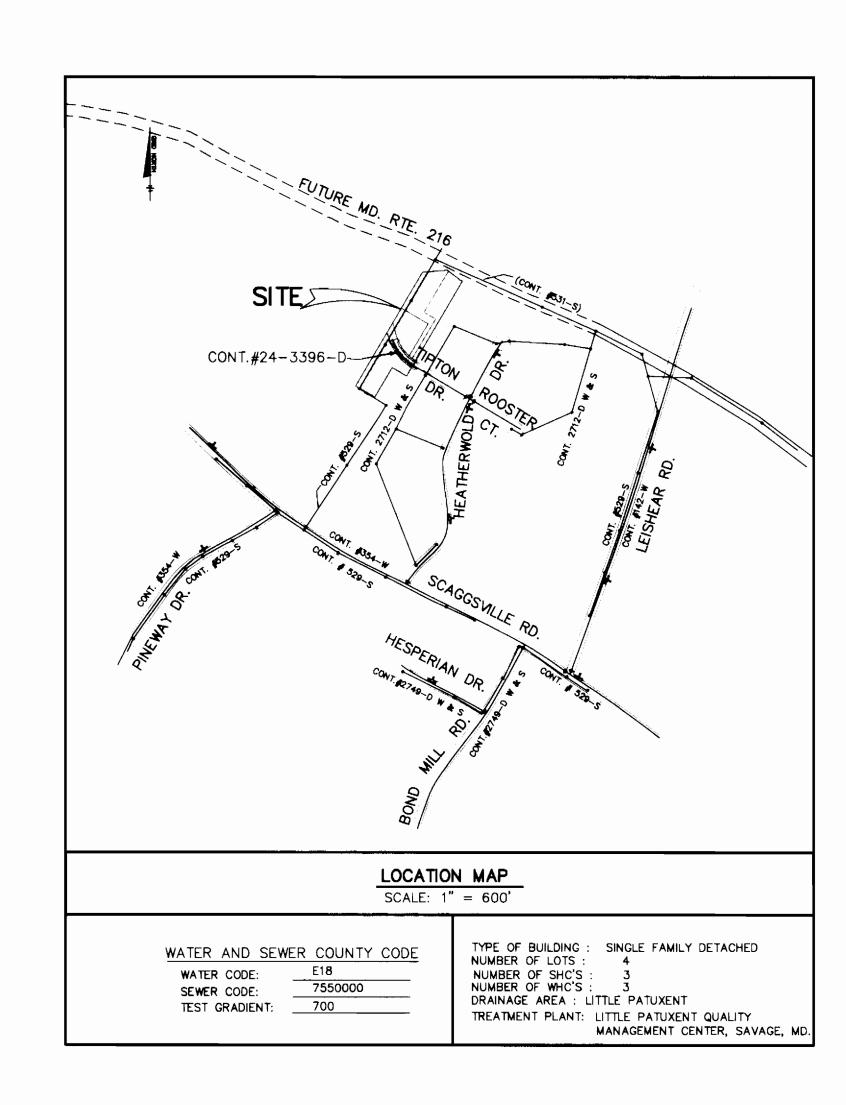
### WATER EXTENSION CONTRACT NO. 24-3396-D

TIPTON MANOR

6 th. ELECTION DISTRICT
HOWARD COUNTY, MARYLAND



#### LEGEND

EXIST. WATER MAIN
EXIST. SEWER MANHOLE

PROP. WATER MAIN

PROP. SEWER HOUSE CONNECTION (SHC)

PROP. WATER HOUSE CONNECTION (WHC)

PROP. FIRE HYDRANT

# HO. CO. HO. CO. HO. CO. HO. CO. SITE VICINITY MAP SCALE: 1"=2000'

BENCH MARKS

HOWARD COUNTY CONTROL STA. 46BA
STAMPED CONC. MONUMENT
LOCALITY: ROUTE 29
0.15' MILES SOUTH OF ROUTE 216
N 537545 840
F 1339849 06

HOWARD COUNTY CONTROL STA. 46E3

STAMPED CONC. MONUMENT
LOCALITY: ROUTE 29

N 535610.716 E 1337927.633

HO. CO. BM.# 2039001 ELEV. 447.25 CONCRETE MONUMENT 0.1" BELOW SURFAI N 477614.342 E 828108.318

#### GENERAL NOTES

1. 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.

2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE

COORDINATES (NAD' 83).

3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA

4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
5. 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 THE 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.

6. 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. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.

7. 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.

B. CONTRACTOR SHAll NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN

HOWARD CO. DEPT. OF PUBLIC WORKS......313-4900

9. 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.
 PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REGUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL

TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANU
OF TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE OPERATIONS.

12. ALL WATER MAINS TO BE D.I.P. UNLESS OTHERWISE NOTED.

13. TOP OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" COVER U

13. TOP OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" COVER UNLESS OTHERWISE NOTED.
 14. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
 15. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD

15. 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 18.114 (a) OF THE HOWARD COUNTY CODE

#### PART 2 - 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.

3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.

4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.

5. 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.

6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

7. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING.

EXISTING WATER SYSTEM.

7. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.

#### PART 3 - SEWER

1. ALL SEWER MAINS SHALL BE DIP, AND P.V.C., UNLESS OTHERWISE NOTED.
2. ALL MANHOLES SHALL BE 4' - 0" INSIDE DIAMETER UNLESS OTHERWISE

NOTED,
3. FORCE MAINS SHALL BE D.I.P. ONLY.

 MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.

ONLY.
5. 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

DHAWINGS.

6. HOUSE (S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

# DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND OFFICE OF PUBLIC WORKS, DATE Michael A Arrangella 5-19-95 Michael A Arrangella 6-19-95 Michael A Arrangella 6-19-95

QUANTITIES

TYPE "K"

MANUFACTURER/SUPPLIE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT

AND MEETS TECHNICAL REQUIREMENTS

MUELLER Co.

HALSTEAD CO.

J-M MFG.

HALSTEAD CO.

QUANTITIES

NAME OF UTILITY CONTRACTOR: Q J. MILLER

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER

ROAD CONSTRUCTION PLANS F-95-132

CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

SURVEY AND DRAFTING AS-BUILT DATE: # - 9-95

ESTIMATED QUANTITIES

#### TSA GROUP, INC.

planning • engineering • surveying 8480 Baltimore National Pike • Suite 418 Ellicott City, Maryland 21043



	DES: JVP				
	DRN: JVP				
	CHK: CAM	⊅F Ï.		An discuss	11. /9/5
	DATE: FEB. 95	YSL	1	REVISED PER 4/19/95 COMMENTS - SUBMIT ORIGINALS	5/17/9
		BY	NO.	REVISIONS	DAT

## COVER SHEET OF WATER MAIN

600 SCALE MAP NO. 46

LOTS 1 THRU 4
ELECTION DISTRICT NO. 6

CONTRACT NO. 24-3396-D

TIPTON MANOR

SCALE
AS
SHOWN
SHEET
1 OF 2

A for a some

BLOCK 12

C: \0615\615WS.DWG

E 1345500 E 1345750 E 1345750 E 1346000 E 1346000 E 1346250 E 1346250 E 1346500