

2 STORY BRICK DWLG

#10726

COURT

295

2+09

LIMIT OF WORK

BLOW OFF MOVED TO

EDGE BETWEEN DRIVE WAYS

LAWN AREA @ CURB

#10735 & 10730

8" CAP & BUTTRESS

EL.= 287.4

PLAN

SCALE: HORZ.: 1" = 50'

COUNTY ROAD

288.8

PRIOR TO CONSTRUCTION SEE

1+00

SCALE: HORZ .: 1" = 50"

VERT.: 1"= 5'

287.6

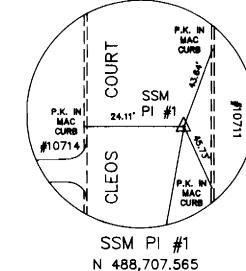
BLOWOFF

HYDRANT (1)

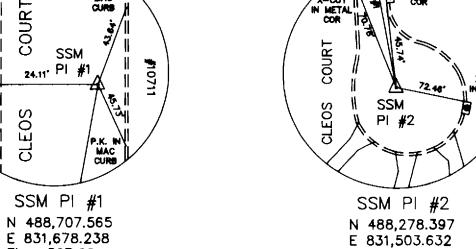
2+00

**1**9/

GENERAL NOTE No. 18



EL.= 307.28



EL.= 293.07

	STAKEOUT SCHEDULE	<u> </u>
STRUCTURE	DISTANCE	OFFSET
PC 0+00 LIMIT OF WORK	SSM #1 TO SSM #2 3+25.18	Lt. 9.18'
0+24 <del>S.H.C</del> . WHC	SSM #1 TO SSM #2 3+49.17	Lt. 8.42'
1+00	SSM #1 TO SSM #2 4+25.16	Lt. 8.06'
1+25 <del>S.H.O</del> . <i>w</i> HC	SSM #1 TO SSM #2 4+50,16	Lt. 8.61'
1+80 <del>5.H.C</del> . win	SSM #1 TO SSM #2 5+05.10	Lt. 11.00'
1+97 <del>S.H.C</del> . <i>w</i> +	SSM #1 TO SSM #2 5+22.07	Lt. 12.06'
2+00 1 1/2" BLOWOFF HYDRANT	SSM #1 TO SSM #2 5+25.06	Lt. 12.26'
2+03 3.H.C. WHC	SSM #1 TO SSM #2 5+28.06	Lt. 12.47'
2+09 LIMIT OF WORK	SSM #1 TO SSM #2 5+34.04	Lt. 12.90'

		QUA	NTITIES	
ITEM	UNIT	ESTIMATE	AS-BUILT	MATERIAL SUPPLIER
8"W	L.F.	209	209	FIRGUION ENTINISES
3/4"W	L.F.	152	/23	WATEN-1"10
-BLOWOFF 11YB:	EA.	1	1	WATER IT
8°CAP & BUTTRESS	EA.	1	/	FERGI ON FORMAL

NAME OF UTILITY CONTRACTOR:	IACAPONI SII	ESPEC, INC
	CHECKBOX	
	AS-BUILT DATE:	9/7/20

SURVEY AND DRAFTING DIVISION

# SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT.
- 2. LAYOUT ALIGNMENT AT SITE.
- 3. INSTALL SEDIMENT CONTROL DEVICE (STRAW BALES) PERPENDICULAR TO THE CURB
- ON THE DOWN-SLOPE SIDE OF CONSTRUCTION. 4. EXCAVATE DITCH TO THE GRADE SPECIFIED ON THE PROFILE.
- 5. INSTALL WATER MAIN.
- 6. BACKFILL TRENCH AND RESURFACE WITH BITUMINOUS PAVING WHERE NEEDED.
- 7. CLEAN UP CONSTRUCTION SITE.
- 8. REMOVE SEDIMENT CONTROL DEVICES AFTER PERMISSION IS GRANTED BY THE SEDIMENT CONTROL INSPECTOR.

DEVELOPER'S CERTIFICATION	ENGINEER'S CERTIFICATION
"I/WE CERTIFY THAT ALL DEVELOPEMENT 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 ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODING ON—SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.	"I/WE CERTIFY THAT ALL DEVELOPEMENT 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 ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODING ON—SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.
BUREAU OF ENGINEERING DATE DEPARTMENT OF RUBLIC WORKS	TIMOTHY W. WOLFE DATE DATE TOWSON, MARYLAND 21204
REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.  OTHER LAND MEETS  OTHER LAND MEETS  U.S. SOIL CONSERVATION SERVEE  DATE	THIS DEVELOPEMENT PLAN IS APPROVED FOR THE SOIL EROSION & SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  APPROVED DATE

## **SURVEY NOTES:**

1. SURVEY CONTROL IS BASED ON TRAVERSE AND BENCH MARKS AS SHOWN ON THE DRAWING ENTITLED "CLEOS COURT WATER EXTENSION, CAPITAL PROJECT W-8691, CONTRACT No. 44-3136, SHEET No. 3 OF 4", PREPARED BY WALLACE, MONTGOMERY & ASSOCIATES, DATED AUGUST 14, 1991.

2. PART OF RIVERSIDE ESTATES, SECTION 4, TAX MAP 41, SHEET 3 OF 3, RECORDED IN PLATBOOK C.M.P. No. 3817.

## BENCH MARKS

BM #5 EL.= 296.74 "+" CUT ON ROAD SIDE FLANGE BOLT OF FIRE HYDRANT, EAST SIDE OF CLEOS COURT, 45' ± NORTH OF DRIVEWAY TO HOUSE No. 10725.

BM #6 EL.= 292.15 BOX CUT ON TOP OF CURB IN CUL-DE-SAC, BETWEEN DRIVEWAYS TO HOUSE Nos. 10730 & 10735 CLEOS COURT.

	RESTORATION SCHEDULE	
LOCATION	DISTANCE	TYPE
0+0 TO 0+38 8" WATER	38 L.F.	SEEDING
0+38 TO 0+57 8" WATER	19 LF.	MACADAM
0+57 TO 1+14 8" WATER	57 L.F.	SEEDING
1+14 TO 2+09 8" WATER	95 LF.	PAVING
3/4" WATER W.H.C.	112 L.F.	PAVING
3/4" WATER W.H.C.	40 LF.	SEEDING

## STANDARD SEDIMENT CONTROL NOTES

- A MINIMUM OF 24 HOURS MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS. PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855).
- 2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS.
- 3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
- a) 7 CALENDER DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1,

b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

- 4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND
- THEIR PERIMETER IN ACCORDANCE WITH VOL. I, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- . ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (Sec. 51), SOD(Sec. 52), TEMPORARY SEEDING (Sec. 50) AND MULCHING (Sec. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 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.

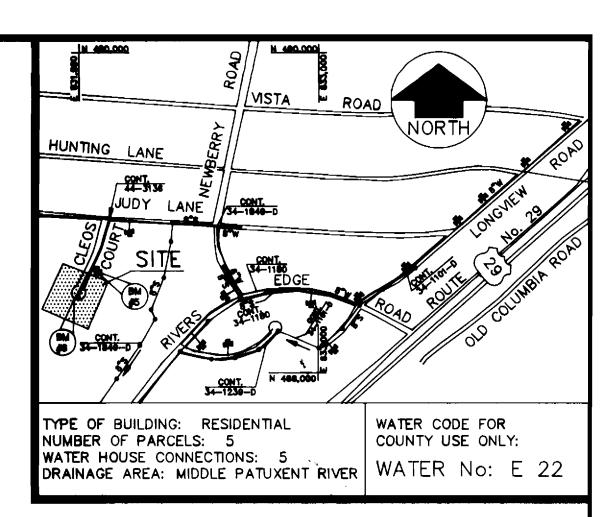
7. SITE ANALYSIS: NA ACRES
O.30 ACRES TOTAL AREA OF SITE AREA DISTURBED AREA TO BE ROOFED OR PAVED 0.01 ACRES AREA TO BE VEGATATIVELY STABILIZED TOTAL CUT 215 TOTAL FILL \_\_ CU. YDS.

OFFSITE WASTE/BORROW AREA LOCATION NA

- B. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF THE 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.
- 1. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE (3) PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER
- 12. CONTRACTOR SHALL PLACE EXCAVATED MATERIALS ON UPHILL SIDE OF TRENCH AND PLACE SILT FENCE ON DOWNHILL SIDE OF TRENCH.
- 13. REFER TO CONTRACT SPECIFICATIONS (PROJECT MANUAL) FOR SEEDING NOTES.

NOTE: SEDIMENT CONTROL TO BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARDS AND SPECIFICATIONS (VOL.IV) OF THE HOWARD COUNTY DESIGN MANUAL AND THIS PLAN.

BLOCK NO. \_\_\_\_11\_

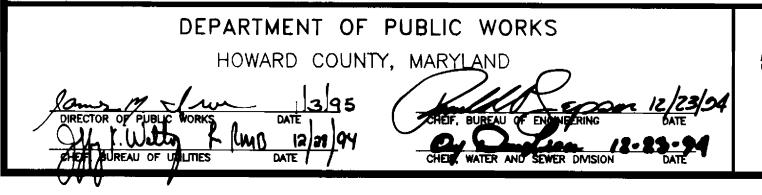


VICINITY MAP SCALE: 1'' = 600'

### 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 SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR EXPENSE.
- 2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- 3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED
- 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
- 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 (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 BG&E (CONTRACTOR SERVICES) .. 850-4620 BG&E - UNDERGROUND DAMAGE CONTROL. 787-9068 BUREAU OF UTILITIES (DPW)... 313-4900 CHESAPEAKE & POTOMAC TELEPHONE CO. 597-8585 COLONIAL PIPELINE CO. 795-1390 1-800-257-7777 MISS UTILITY ... STATE HIGHWAY ADMINISTRATION
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTEND. 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 SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD
- 12. ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS
- 14. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 15. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 16. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
- 17. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- PRIOR TO LAYING ANY WATER MAINS UNDER THIS CONTRACT, THE CONTRACTOR SHALL TEST PIT AT THE INDICATED CROSSINGS AND WATER MAIN CONNECTIONS, AND SHALL DETERMINE ELEVATIONS AND HORIZONTAL LOCATIONS OF MAINS. THE INFORMATION SHALL BE TURNED OVER TO THE ENGINEER AND THE CONTRACTOR SHALL LAY THE WATER MAINS IN ACCORDANCE WITH THE ENGINEERS INSTRUCTIONS.

BORING SCHEDULE				
BORING	TRAV. STA.	OFFSET	DEPTH	
B - 2	0+89.54	Lt. 14.69'	8'	



290

285

0+00

LIMIT OF WORK

REMOVE EX. 8"

EX. 8" W.

EL.= 289.2±

CAP & BUTTRESS

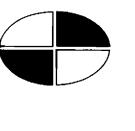
AND CONNECT PROP.

8" WATERMAIN TO

CLEOS

CLEOS

0+50







	DRN: RPG					8-INCH WA
<u>L</u>				PLAN, PROFILE		
	CHK: TWW					CLEOS C
			$\triangle$	REVISE TO 1/2" DRAW (W.4.12) TO CONTORM W/ SPECIFICATIONS	3-2-95	
DATE: DEC.'94	BY	NO.	REVISION	DATE	600' SCALE MAP NO41	

HOWARD COUNTY S.C.D.

8-INCH WATER MAIN PLAN, PROFILE & NOTES CLEOS COURT

CLEOS COURT WATER EXTENSION CAPITAL PROJECT No. W-8695

**CONTRACT** No. 44 - 3402 **ELECTION DISTRICT No. 5** HOWARD COUNTY, MARYLAND

SCALE AS SHOWN SHEET 1 OF 1



TOPOGRAPHIC SURVEY PLAT

CAP. PROJ. NO. W-8695 CONTRACT NO. <u>44-3402</u> FIELD BOOK NO. 403

SCALE: 1" = 50'

PREPARED BY:



555 Fairmount Ave., Suite 230 Towson, Maryland 21286—5497 (410) 494—0500 FAX 296—3580

SHEET NO. / OF /

SURVEYOR'S CERTIFICATION

I, Robert P. Grim, certify that this Topographic Survey is the actual record of the electronic data collection topographic survey performed by me or by personnel under my direct supervision. This plat is the original and final graphic representation of the field survey performed on or about 23 November, 1994. The instruments used to perform this survey were, Theodolite: TOPCON, GTS 3B. Accuracy: Distance measurement, +/-(5mm + 5 ppm)m.s.e., Angular Measurement: Less than 5", Data Collector: Hewlett Packard, 48SX. This Topographic Survey Plat meets requisite accuracy as specified for this project by the Howard County, Department of Public Works.

----

BY NO. DATE

3

NO. DATE

DESCRIPTION

BY

DESCRIPTION