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 ON THE PLANS.
- 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 THE 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
- 8. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT&T	865-3803
BG&E (CONTRACTOR SERVICES)	850-4620
BG&E - UNDERGROUND DAMAGE CONTROL	787~9068
BUREAU OF UTILITIES (DPW)	313-4900
CHESAPEAKE & POTOMAC TELEPHONE CO	
COLONIAL PIPELINE CO	795-1390
MISS UTILITY 1-8	00-257-7777
STATE HIGHWAY ADMINISTRATION	531-5533

- 9. 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.
- 10. 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
- 11. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-7450 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 COUNTY CODE.
- 12. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- 13. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- 14. FORCE MAINS SHALL BE D.I.P. ONLY.
- 15. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- 16. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 17. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-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 ACRES DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT.)
AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14LBS/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 OF 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 SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

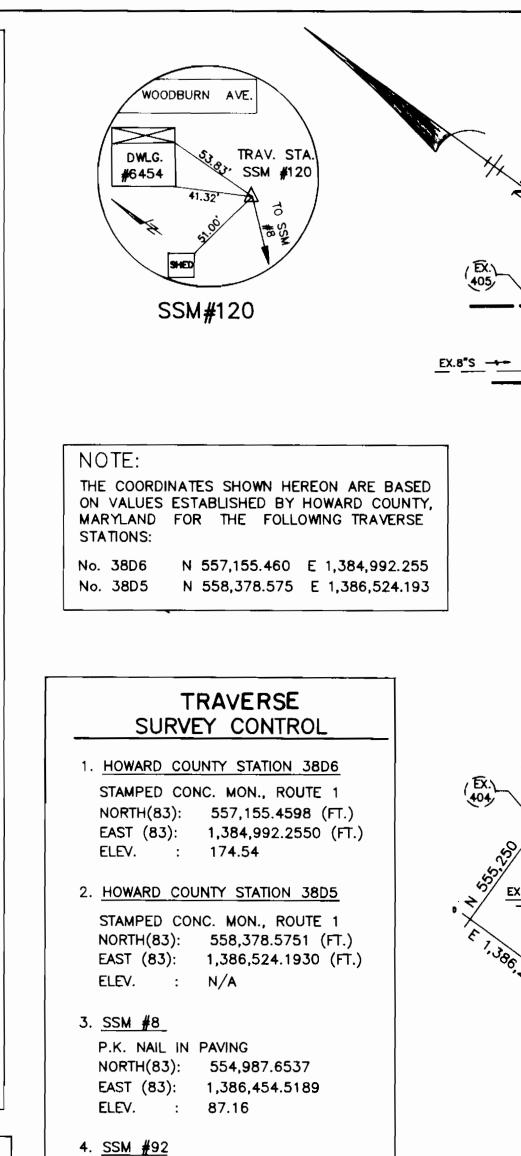
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

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.). SFEDING: - FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEVE 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 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



NORTH(83): 555,102.2764

ELEV.

ELEV.

5. <u>\$\$M #12</u>0

HUB W/TACK

NORTH(83):

EAST (83): 1,386,362,6430

91.31

88.89

555,149.4847

1,386,591.3100

HAWTHORN (COUNTY P.K. NAIL IN PAVING

Z

 \triangleleft

 \circ

SCALE: 1'' = 50'

PROPERTY OF WALKER

EX, GROUND -

8"S • 0.50% ---

(12/93)

46454 C.E. = 89.44

NV.(OUT)

— INV. 83.93 (N.)

83.8**3**

GLADYS /R. TAYLOR

L2644/F296

ROBERT O. VERNON CHARLENA M. VERNON

L\$99\/F463\

WOODBURN

L496/F49

ELIZABETH A. MÉMILLIÓN

EL. = 89.50

W.T. MANHOLE

8 STUB 2 LONG (SE)

INV. = 83.95

INV 83.93 (IN) -

P EX BW

-W) S34492 / BGAE 145363

ROAD)

2 STORY

DWLQ, #8456

LIMIT OF WORK

EL.= 87.80

W.T. MANHOLE

REMOVE EX. B" T. C. PTES

REPLACED WE PVC

BETWEEN EX. MANNOLE 444

TO PROP. MH I & RECONNECT SHC (SEE NOTE 1) **AVENUE**

ÉX.\ EL.= 88.50

444 ST'D. MANHOLE

DOG HOUSE MH

7-30-64

INV.=82.65

INV.(OUT)=

82.50

8"S @ 0.50% (PYC)

TO EX. MH404

`EX.6"S.H.C.#6453 (N)

DOG HOLD

NA EX IS PIPE

HAWTHORN AVENUE

(COUNTY ROAD)

(REMOVE EX. TERRA COTTA PIPE)

EX.8"S @ 0.40% (CONT.No.23-S)

LIMIT OF

100-YEAR

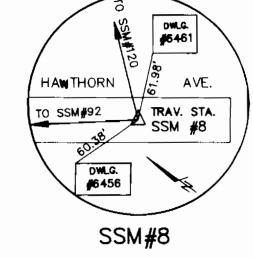
FLOODPLAIN

DALE L. WALKER

LORGEN D. WALKER

MIN. SERVICE

ELEV.= 88.60



TEST PIT#1 JULY 5,1994 GROUND ELEV. = 88.04 TOP OF EX. 8"S = 84.14

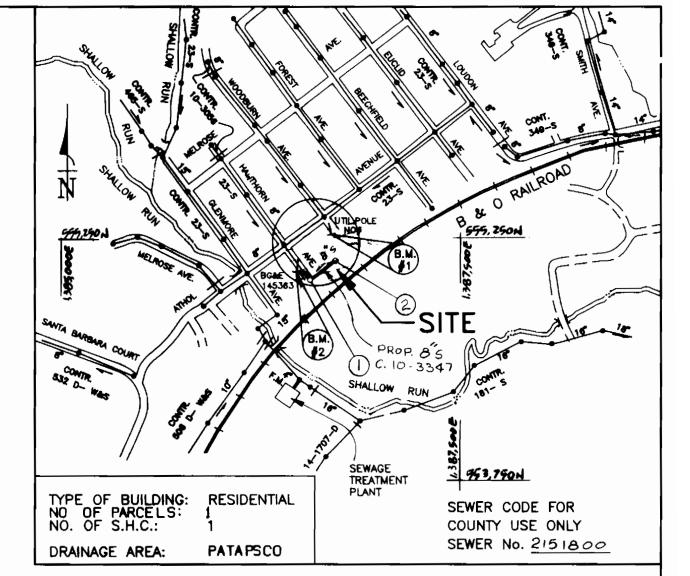
HAWTHORN

TRAV. STA.∖る SSM #92

SSM#92

TO SSM#7

COORDINATE TABLE			
MANHOLE	N	E	
MH1	555,025.685	1,386,429.809	
MH-2	555,10 6.87 0	1,386,540.159	



VICINITY MAP SCALE: 1" = 600'

STAKEOUT SCHEDULE				
MANHOLE	DISTANCE	OFFSET		
MH-1	SSM #8 TO SSM#92, STA. 0+45.35	RT. 4.51'		
MH-2	SSM #8 TO SSM#120, STA. 1+46.33	LT. † 1.95		

RESTORATION SCHEDULE			
LOCATION	DISTANCE	TYPE	
EX.MH(S-444) TO MH-1	32'	ASPHALT PAVING*	
MH-1 TO MH-2	137'	132'SEED, 10'PAVING"	
S.H.C.(#6454)	5′	SEEDING	

STO. DETAIL GEOI, NOTE 3.

BENCH MARKS

BM1: R.R.SPIKE IN UTILITY POLE #0 #M AT WOODBURN AVE. ±190' S.W. OF ATHOL AVENUE (1.90' ABOVE GROUND). ELEV.= 93.16

BM2: R.R.SPIKE IN BG&E POLE #145363 AT HAWTHORN AVE. ±120' S.W. OF ATHOL AVENUE (1.30' ABOVE GROUND). ELEV.= 91.66

NOTE:

QUANTITIES				
ITEM	UNIT	ESTIMATE	AS-BUILT	MATERIAL SUPPLIER
8" SEWER	L,F.	169	137	NATIONAL PIPE CO
WATERTIGHT MH	EA.	2	2	ATCH I'VE LOVE
4" S.H.C.	LF.	5	5	NATIONAL PIPE CO.
RECONN. EX. S.H.C.	EA	2	0	<u> </u>
8" STUB	L.F.	2	2	NATIONAL PIPE CO
NAME OF UTILITY	CONTRA	KTOR:		

AS BUILT DATE SURVEY AND DRAFTING DIVISION

- 1. RECONNECT EX. S.H.C. (#6461 & #6456) FROM EX. MH #444 TO PROPOSED MH-1.
- 2. CONTRACTOR TO RE-ESTABLISH EX. SWALE
- NEAR MH#2 AFTER CONSTRUCTION. 3. FLOW MUST BE MAINTAINED AT ALL TIMES.

SEQUENCE OF CONSTRUCTION

- 1. CONTACT HOWARD COUNTY DIVISION OF CONSTRUCTION INSPECTION DIVISION (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
- 6. FINE GRADE ALL DISTURBED AREAS AND STABILIZE WITH PERMANENT SEEDING.

INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES.

ENGINEER'S CERTIFICATION DEVELOPER'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 SEDMENT 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. TIMOTHY W. WOLFE REVIEWED FOR HOWARD S.C.D. AND MEETS THIS DEVELOPEMENT PLAN IS APPROVED FOR THE SOIL EROSION & SEDIMENT CONTROL BY THE

PROFILE SCALE: HORZ: 1'' = 50'

VERT.: 1" = 5'

INV.(IN) = -

83.04

83.14

#6454 WOODBURN EX. 8"STUB (SE)

ACTUICT S/28/90 UKM

DATUM ELEV

NOTE: THE STANDARD SEDIMENT CONTROL NOTE IS IN APPENDIX OF STANDARD SPECIFICATIONS, DEPARTMENT OF PUBLIC WORKS





NOF X	DES
6	DRI
30	СНІ
Bar 2 1 1	DAT
7 1	

•	DRN: G.S.				+
	DKI4. 9 .5.				
<i>,</i>	CHK: T.W.W.				#
l	DATE: SEPT. '93				\perp
7/14	DATE: 3EF1. 93	BY	NO.	REVISION	D

8-INCH SEWER MAIN NOTES & DETAILS

WOODBURN AVENUE SEWER

CAPITAL PROJECT: S-6183 ELECTION DISTRICT: CONTRACT No.: 10-3347

_ of <u>1</u>

SCALE AS SHOWN SHEET

600' SCALE MAP NO. _____S_38 BLOCK NO. _____19 ____