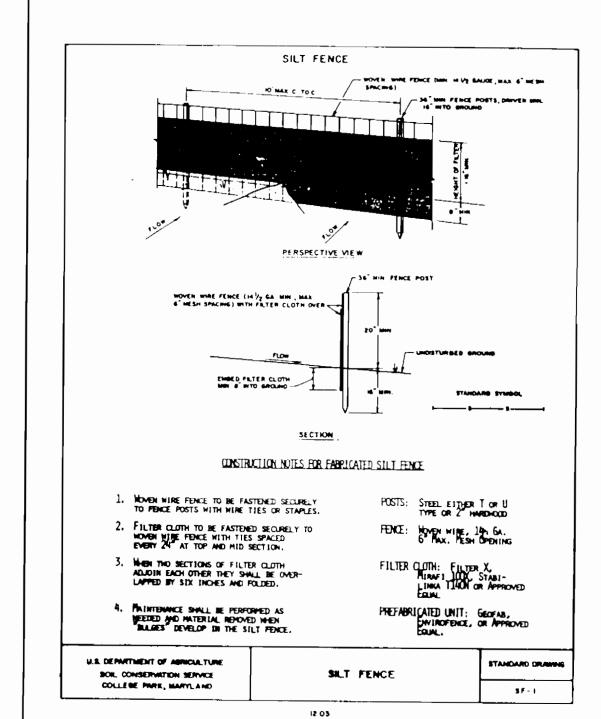


		·	·			
MANHOLE NUMBER	LOCATION	INV. IN	INV. OUT	RIM ELEV.	TYPE	REMARKS
MH B	£ 20,06,231'LT.	436.40	436.30	448.10	STD.	G 5./3
MH 7	€ 20+04, 7'RT.	43486	434.75	443.9	STD.	G 5./3

MANHOLE TABULATION							
NO	E ROAD STA.	OFFSET	RIM EL.				
8	20+06	221'LT.	448./				
7	20+04	7' RT.	443.9				
EX.8							



A NOTE: ALL FILL MATERIAL IS TO BE PLACED AT THE HIGH SIDE OF TRENCH. THE CONTRACTOR SHALL NOT EXCAVATE MORE TRENCH IN ANY DAY THAN CAN BE INSTALLED AND BACKFILLED IN THE SAME DAY

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

REVIEWED FOR HOWARD CO. S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

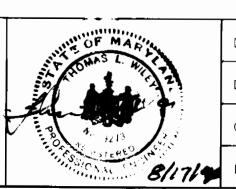
FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, FEITMANENT STABILIZATION SHALL BE COMPLETED WITHIN I) T CALEND R DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALE, DITCHES, PERIMETER SLOPES AND ALL SLOPES CREATER THAN 31

SEDIMENT CONTROL MEASURES FOR THIS
CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE
WITH ARTICLE 219 OF THE HOWARD COUNTY DESIGN
MANUAL AND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEWBERRY + DAVIS

200 HARRY S. TRUMAN PKWY. ANNAPOLIS MARYLAND 21403



	DES: MLH	RAB	Δ	Added note 1 Sheet 2 of 2	10/8/90	
ļ	DRN: MLH					PLAN + PROFILE
	CHK: <i>G5G/M5</i>					SEWER
7/9	DATE: 4-17-90	BY	NO.	REVISION	DATE	600 SCALE MAP NO

CRYSTAL SPRINGS ESTATES

EX. 20' SEWER \$ UTILITY ESMT. PLAT NO. 9084-

LOT 160

MIN.

440.00

CELLER ELEY:

STD. MANHOLE

-EX. GROUND

8" SAN. @ 0.61 %

PROP. GRADE -

VOOI | RIM EL. 448.10

434.30

8°5 FROM

MH 701

2 SILT FENCE

ELEV. =

LOT 162

SEC. 1

MIN. CELLAR ELEV. =

44250 LOT 159

MONTGOMERY//MEADOWS

SECTION ONE MAREA FOUR

CRYSTAL SPRING INC.

LIBER 1782 FOLIO 746

SEC. 2

MONTGOMERY MEADOWS

CONTRACT NO. 14-1767-D

100 YEAR FLOOD PLAIN (DRAINAGE & UTILITY ESM'T).

MH STD. MANHOLE
RIM EL 443.9

CONTRACT NO.

INV. 425.55

(EX MH B

EX. 20' SEWER & UTILITY EASEMENT PLAT NO. 9159

SECTION ONE AREA THREE ESSA

CONTRACT NO. 10-3062-D

IST ELECTION DISTRICT

SCALE: 1" . 50"

GENERAL NOTES

THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

STANDARD SPECIFICATIONS.

PROPOSED UTILITIES AT HIS OWN EXPENSE.

"MISS UTILITY" 1-559-0100

STATE HIGHWAY ADMINISTRATION 531-5533

DISTRIBUTION CUSTOMER SERVICE 685-0123

DISTRIBUTION CUSTOMER SERVICE 685-0123

COLONIAL PIPELINE COMPANY 795-1390

AS-BUILT

COMPLETED 7-15-91

ENGINEERING - "DAMAGE CONTROL" 234-5611

CRYSTAL SPRING ESTATES SECTION ONE TAX MAP 31

PARCEL 175 HOWARD COUNTY, MARYLAND DATE MARCH, 1990

(JEWER EXTENSION.)

SCALE

SHOWN

SHEET

<u>/</u> of <u>2</u>

" MONTGOMERY MENDOUS SECTION ONE 2744005 VICINITY MAP WATER CODE: NIA SEWER CODE: 2900000 TYPE OF BUILDING SINGLE FAMILY - RESIDENTIAL NUMBER OF LOTS:
No. OF Water House Conn. _O. No. of Sewer House Conn. _3
DRAINAGE AREA: PATAPSCO BRANCH TREES ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR 10. SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE DAMAGED BY THE CONTRACTOR. INCIRRED SHALL BE REPAIRED DIMEDIATELY TO THE SATISFACTION OF CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION AS DIRECTED BY THE ENGINEER. PAYMENT FOR SUCH ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES. REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM. PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS. TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIDIAM OR TUNNEL AS REQUIRED. ANY COST INCURRED TO THE CONTRACTOR FOR TUNNELLING OR BRACING AT POLES SHALL BE INCLUDED IN UNIT PRICES BID FOR CONSTRUCTION OF THE MAIN. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITH 6. FOR DETAILS NOT SHOWN ON THE DRAWDINGS USE HOWARD COUNTY STANDARD 2'-O" OF EXTERIOR MANHOLE WALL. 14: ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER, UNLESS OTHERWISE FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES ONLY. CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERITICHIT FRAME AND COVERS, STANDARD DETAIL G.5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT 1'-6" ABOVE FINISHED GRADE, STANDARD DETAIL G.5.4-1. LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION C-153 DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12 INCH WITH OTHER LIQUIDS. BALITIMORE GAS AND ELECTRIC COMPANY - UNDERGROUND ELECTRIC BALITIMORE GAS AND ELECTRIC COMPANY - UNDERGROUND GAS CHESAPEANE AND POTOMAC (CEP) TELEPHONE COMPANY 725-9976 AMERICAN TELEPHONE AND TELEGRAPH - CABLE LOCATION DIVISION BURGAU OF UTILITIES HOWARD COUNTY 992-2366 OWNER / DEVELOPER
BERTON CONSTRUCTION COMPANY
GIIO EXECUTIVE BOULEYARD SUITE 1090
ROCKVILLE MARYLAND 20852
(301) 770-2450

STABILIZATION NOTE

ALL SLOPES GREATER THAN 3:1.

2) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

SCALE : HOR. 1":50" VERT. 1":5"

PROFILE

434.86

`434.75

8"SAN. 2577

EX. 8"5

INV. = 425.65-

AS-BUILT SHE

261-8707 (METRO)

APPLY TO GRADED OR CLEARED AREA 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, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING

- 1) PREFERRED APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQUARE FT)
 AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.) BEFORE SEEDING.
 HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30 0-9 UREAFORM FERTILIZER (9 LBS/1000 SO.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 DISC 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 FERBULDY 28 DECLETE SITE BY OPTION (1) 2 TONS DECLETE ANCHORD STRAY WHICH 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 15 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. SQ.FT.) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT
- 2. INSTALL SILT FENCE
- 3. CLEAR AND GRUB AREA NECESSARY TO INSTALL SEWER LINE
- 4. INSTALL SEWER LINE
- 5. REGRADE AREA DISTURBED TO EXISTING GRADE
- 6. STABILIZE WITH A PERMANENT VEGETATIVE COVER
- 7. REMOVE SILT FENCE UPON PERMISSION OF INSPECTOR

SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION
- 2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND
- 3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR 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. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51) AND (SEC. 54), 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 HOARD COUNTY SEDIMENT CONTROL INSPECTOR. 7. SITE ANALYSIS:
 - TOTAL AREA OF SITE AREA DISTURBED 0.16 ACRES AREA TO BE ROOFED OR PAVED 0.03 ACRES AREA TO BE VEGETATIVELY STABILIZED 0.13 ACRES TOTAL CUT 180 ACRES TOTAL FILL 180 ACRES
- OFFSITE WASTE/BORROW AREA LOCATION 8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

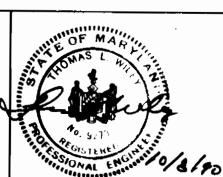
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

CHIEF, BUREAU OF ENGINEERING A DATE

DEWBERRY & DAVIS

ARCHITECTS · ENGINEERS · PLANNERS · SURVEYORS 200 HARRY S. TRUMAN PARKWAY

ANNAPOLIS, MD. 21401 (301) 261-8707



		1			
DES:					SEDIMENT CONTRO
DRN:					
					NOTES
CHK:	<u></u>				
DATE:					
	BY	NO.	REVISION	DATE	600' SCALE MAP NO

CONTRACT NO. 17-3762-D CRYSTAL SPRING ESTATES SECTION ONE

TAX MAP 31 IST ELECTION DISTRICT SCALE: 1" + 50"

PARCEL 175 HOWARD COUNTY, MARYLAND DATE MARCH, 1990

HU BUILT

SCALE

SHOWN

SHEET