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ITEM	QUANTITIES		AS-BL	NLT
	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
12" DIP SEWER () 455 52)	1,535 LF	1533 LF	CLASS 57	ATLANTIC STATES / A-1 PIPE
12' SEWER SDR-35	1,420 LF	1421 L.F.	50R~35	J.MMFG./WATER PRO
8 SEWER	1,593 LF	1593 LF.	5DR- 55	J.MMFG./WATERPRO
8' DIP SEWER (Class 52)	125 LF	125 L.F.	CLASS 52	STATES /4-1 PIPE INC.
MANHOLES-	213 VF	186 V.F.	PRECAST	ATLANTIC CONCRETE PROD
4º SHC	245 LF	240 L.F.	SDR-35 Class 52	U.MMFG WATERPE
4" DHC	59 ∨⊭	65 V.F.	50R-35 CLASS 58	U.MMFG WATERPRO
4' SHC (DIP)	90 LF	100 L.F.	ELASS 52	ATLANTIC STATES/AH PIPE

UTILITY CONTRACTOR : GAINES + CO.

SURVEY AND DRAFTING

PHOENIX ENGINEERING, INC. CONSULTING ENGINEERS

817 MAIDEN CHOICE LANE, SUITE 300

BALTIMORE, MARYLAND 21228

FAX: (410) 247-9397

PHONE: (410) 247-8833

TRAVERSE COORDINATES				
NO.	NORTH	EAST		
ලව	499,307.9107	820,973.8412		
70	499,505.5103	821, 147. 8467		
71	499,702.7000	820, 986. 6047		
72	500, 243. 0198	820,959.6747		
73	500, 510. 9935	821, 157. 9271		
74	500, 655. 2228	821,265.0152		
75	500,731.0740	821,320.8133		
76	501,027. 3589	821, 199. 5792		
דר	501,221.3527	821,279.4805		
78	501,433.0448	821, 341. 0751		
79	501, 678. 2903	821, 253. 7065		
80	501,809.7186	820, 452, 583)		
18	502,076.9426	820,440.7692		
82	502, 927. 7862	820, 145. 2807		

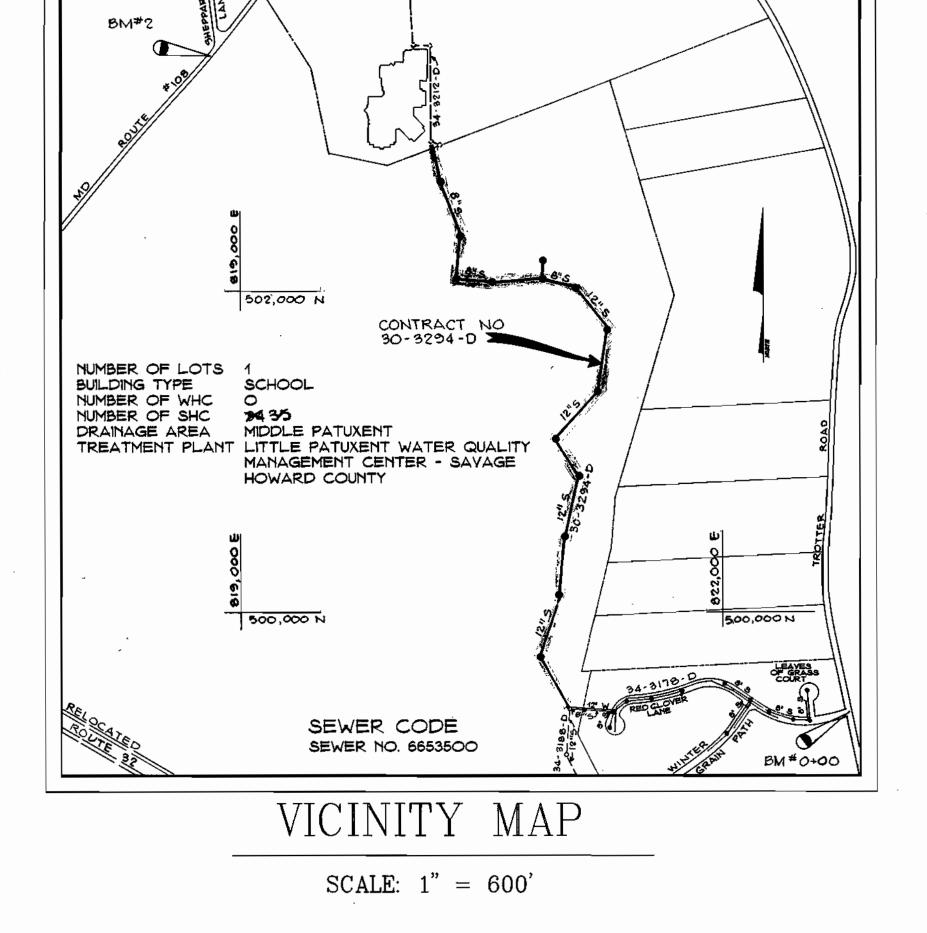
BM # 2 ELEY. 484.671 HO. CO. MONUMENT # 2037004, CONCRETE MONUMENT 0.6' BELOW SURFACE, 4.5'± OFF NORTHWEST EDGE OF PAVING OF ROUTE 108, 42.2'± SOUTHWEST OF CENTERLINE SHEPPARD LANE.

PK. NAIL IN MACADAM IN TROTTER 5.9' FROM EDGE OF ROAD

THE CONTRACTOR SHALL ONLY OPEN THAT PORTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED BY DAYS END. DURING CONSTRUCTION ALL EXCAYATED MATERIAL SHALL BE PILED ON THE UPHILL SIDE OF THE TRENCH AND PROTECTED FROM EROSION UNTIL BACKFILLED.

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY

DEPARTMENT OF PUBLIC WORKS



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 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.
- 3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT (-- ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2"-O" 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 YOLUME IY ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL 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 NOTIFIY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING

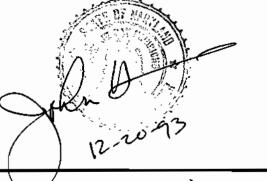
STATE HIGHWAY ADMINISTRATIONBG&E CO. CONTRACTOR SERVICES	
BGEE CO. UNDER GROUND DAMAGE CONTROL	787-9068
MISS UTILITY	1-800-257 <i>-</i> 7777
COLONIAL PIPELINE COMPANY	795-1390
HOWARD COUNTY CONSTRUCTION INSPECTION	
DIVISION	343-4880

- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN 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.
- 41. ALL SEWER MAINS SHALL BE DIP, RCP, YCPX, CSPX, RCCP AND P.V.C. UNLESS OTHERWISE NOTED.
- 12. DELETED.
- 13. ALL MANHOLES SHALL BE 4'-O' INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- 14. MANHOLES SHOWN WITH 12",18 & 20" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT MANHOLE 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 DRAWINGS.
- LETTER OF AUTHORIZATION ISSUED BY THE STATE OF MARYLAND, WATER RESOURCES ADMINISTRATION ON OCTOBER 6, 1993. FILE NO. 93-NT-0646/199367106.

CONTRACT NO. 30-3294 D

VILLAGE OF RIVER HILL SECTION 4

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS



RIVER HILL SECT. 4 CONTRACT #30-3294 1

COLUMBIA VILLAGE OF

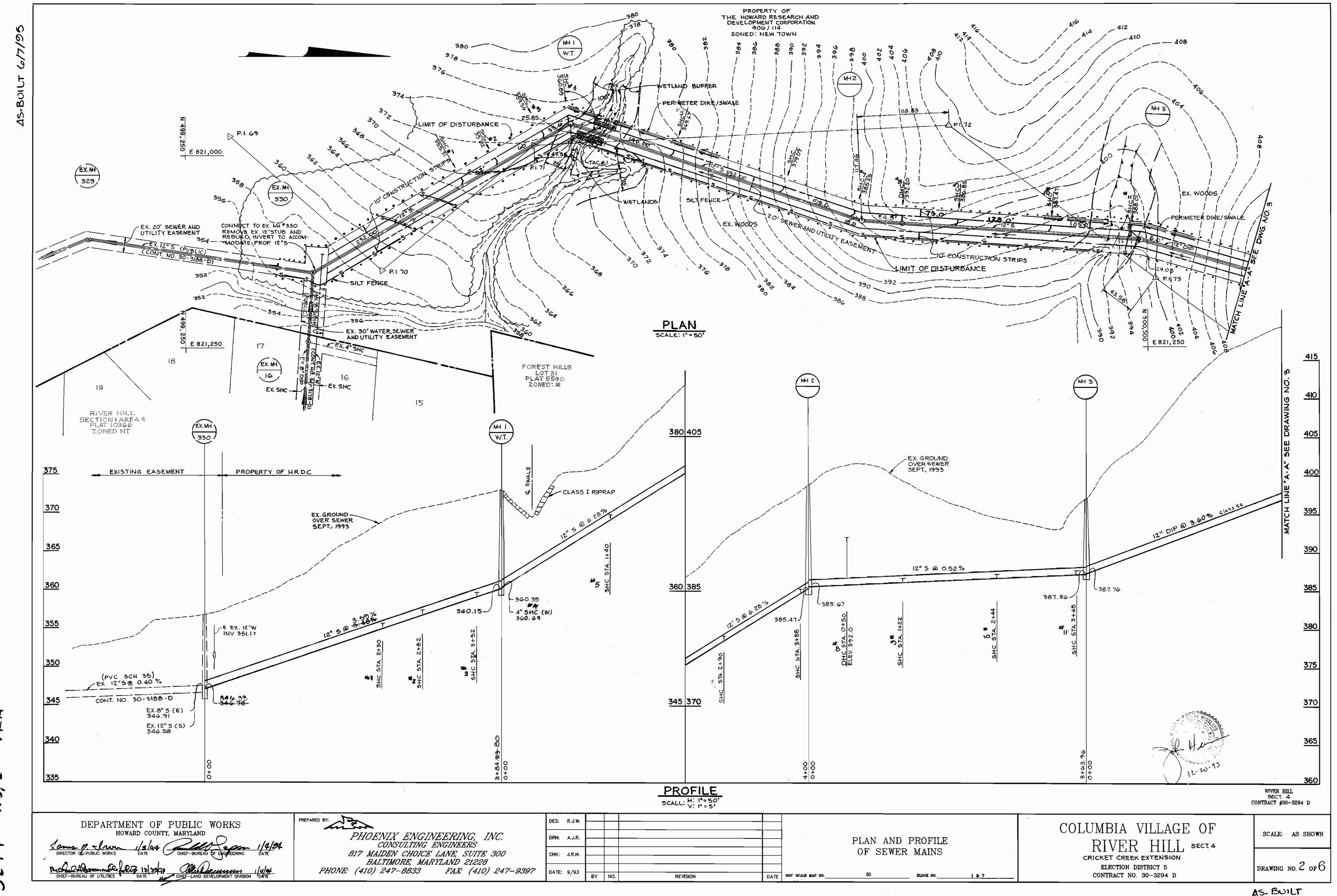
ELECTION DISTRICT 5

 $^{\prime}$ drawing no. 1 of 6

SCALE: AS SHOWN

45-BUILT 6/7/95

VICINITY MAP GENERAL NOTES CHK: J.R.H. DATE: 9/93



AS-BUILT 6/7/95

CHK: J.R.H.

DATE: 9/93

BY NO.

REVISION

817 MAIDEN CHOICE LANE, SUITE 300

BALTIMORE, MARYLAND 21228

FAX: (410) 247-9397

PHONE: (410) 247-8833

AL-KITTLE BUTTE

RIVER HILL SECT. 4

CONTRACT #30-3294 D

SCALE: AS SHOWN

drawing no. 5 of 6

EX. WESTERN HIGH SCHOOL

FF 4GG 33

EX. 20' SEWER AND

UTILITY EASEMENT

-EX.8" SEWER & M-L.

TO BE ABANDONED

MENEK IN TITUE

WESTERN HIGH

450.50

445

440

SCHOOL SITE

(BY OTHERS)

E 820,500

448.00 -

1/11

COLUMBIA VILLAGE OF

CRICKET CREEK EXTENSION

ELECTION DISTRICT 5

CONTRACT NO. 30-3294 D

RIVER HILL SECT. 4

IN JA E

EX.M-

LIMIT OF DISTURBANCE

- 2

· 10'CONSTRUCTION STRIPS

PROPERTY OF

EX. GROUND

OVER SEWER

5E.PT., 1993

AND SEDIMENT CONTROL DETAILS

DATE

8%\$JOPP**ER**-

CONDITIONS AND MAINTENANCE PRACTICES FOR WORKING IN NONTIDAL WETLANDS AND BUFFERS

- A. FOR UTILITY LINE INSTALLATION, STRIP, STOCKPILE AND MAINTAIN SEPARATELY THE TOP 6' OF SOIL MATERIAL, TO BE REPLACED AS THE TOP LAYER OF THE BACKFILLED MATERIAL.
- B. REMOVE EXCESS FILL OR CONSTRUCTION MATERIAL OR DEBRIS TO AN UPLAND DISPOSAL AREA, OUTSIDE OF ANY FLOODPLAIN, WATERWAY, WETLAND OR BUFFER;
- C. PLACE MATERIALS IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF THE NONTIDAL WETLAND;
- D. USE PREVIOUSLY EXCAVATED MATERIAL AS BACKFILL, UNLESS IT CONTAINS WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL OR ANY OTHER DELETERIOUS SUBSTANCE. USE CLEAN BORROW MATERIAL WHEN EXCAVATED MATERIAL IS NOT SUITABLE FOR USE
- E. RECTIFY ANY NONTIDAL WETLANDS AND BUFFERS TEMPORARILY IMPACTED BY ANY PROPOSED REPAIR AND MAINTENANCE ACTIVITY OR INSTALLATION OF THE UTILITY LINE. ALL STABILIZATION IN THE WETALND AND BUFFER SHALL BE OF THE FOLLOWING RECOMMENDED SPECIES: ANNUAL RYEGRASS (LOLIUM MULTIFLORUM), MILLET (SETARIA ITALICA), OATS (UNIOLA SP.), AND/OR RYE (SECALE CEREALE). OTHER NON-PERSISTENT VEGETATION MAY BE ACCEPTABLE, BUT MUST BE APPROVED BY THE NONTIDAL WETLANDS DIVISION. KENTUCKY 31 FESCUE SHALL NOT BE UTILIZED IN THE WETLAND OR BUFFER. ALL TEMPORARY FILLS SHALL BE REMOVED IN THIER ENTIRETY ON OR BEFORE THE COMPLETION OF CONSTRUCTION;
- F. AFTER INSTALLATION HAS BEEN COMPLETED, MAKE POST CONSTRUCTION GRADES AND ELEVATIONS OF NONTIDAL WETLANDS THE SAME AS THE ORIGINAL GRADES AND
- G. TO PROTECT IMPORTANT AQUATIC SPECIES, IN-STREAM WORK IS PROHIBITED AS DETERMINED BY THE CLASSIFICATION OF THE STREAM AS FOLLOWS:
- 1) CLASS! WATERS. IN-STREAM WORK MAY NOT BE CONDUCTED DURING THE PERIOD MARCH 1 THROUGH JUNE 15, INCLUSIVE, DURING ANY YEAR.
- H. PLACE HEAVY EQUIPMENT ON MATS OR SUITABLY OPERATE THE EQUIPMENT TO PREVENT DAMAGE TO THE NONTIDAL WETLANDS.
- 1. NO REMOVAL OF VEGETATION, GRADING, FILLING, DRAINING OR OTHER ALTERATION OF THE NONTIDAL WETLANDS OR BUFFER OUTSIDE THE LIMITS OF DISTURBANCE SHALL OCCUR. EITHER DURING CONSTRUCTION OR AFTER COMPLETION, WITHOUT WRITTEN AUTHORIZATION FROM THE WATER RESOURCES ADMINISTRATION.

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN ALL NECESSARY PERMITS.
- 2. NOTIFY HOWARD COUNTY CONSTRUCTION AND INSPECTION DIVISION @ 313-1880 AT LEAST FIVE DAYS PRIOR TO BEGINNING CONSTRUCTION.
- 3. INSTALL ALL SEDIMENT CONTROL DEVICES. USE EXISTING S.C.E. PROVIDED UNDER WESTERN HIGH SCHOOL SITE (SDP 92-92) TO GAIN ACCESS TO THIS SITE. GET APPROVAL FROM SEDIMENT CONTROL INSPECTOR BEFORE COMMENCING WITH CONSTRUCTION.
- 4. BEGIN INSTALLING SEWER MAINS AT LOW MANHOLE. SEE NOTES "CONDITIONS AND MANAGEMENT PRACTICES FOR WORKING IN NON - TIDAL WETLANDS AND BUFFERS" ON THIS SHEET, REPAIR ALL WETLAND AND BUFFER DISTURBANCES IN ACCORDANCE WITH THESE CONDITIONS BEFORE PROCEEDING TO NEXT MANHOLE RUN.
- 5. INSTALL REMAINDER OF SEWER AS OUTLINED IN PRECEDING NOTE.
- 6. STABILIZE ALL DISTURBED AREAS.
- 7. AFTER ALL AREAS HAVE BEEN STABILIZED AND WITH APPROVAL FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR AND DNR, REMOVE ALL SEDIMENT CONTROL DEVICES.

SEDIMENT CONTROL NOTES

- 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. (313-2437)
- 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROMISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND
- 3) FOLLOWING INITIAL SOR, 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
- 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 SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52.) TEMPORARY STABILIZATION WITH MULCH ALONG CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHINT DE CRASSES.
- 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:

 107AL AREA OF SITE

 AREA DISTURBED

 AREA TO 9E ROOFED OR PAVED

 AREA TO 9E VECETATIVELY STABBUZED

 TOTAL CUT

 107AL FILL

 9.176 CU, YOS.

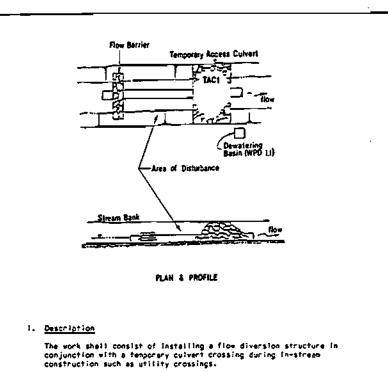
 OFFSITE WASTE/BORROW AREA LOCATION

 ON SITE
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- 9) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW 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.

STONE OUTLET STRUCTURE* The stone shall be crushed stone. Gravel may be used if crushed stone is not available. The stone shall meet MSHA Size No. 2 or AASHTO The crest of the stone dike shall be at least six inches lower than the lowest elevation of the top of the earth dike and shall be level. The scone outlet structure shall be embedded into the soil a minimum The minimum length, in feet, of the crest of the stone outlet structure shall be equal to six times the number of acres of contributing drainage The stone outlet structure shall be inspected after each rain, and the stone shall be replaced when the structure ceases to function as incended due to milt accumulation among the stone, washout, construction traffic damage, etc. Standard Symbol * Drainage area less than 5 acres U. S. OEPARTMENT OF AGRICULTURE STONE OUTLET STRUCTURE College Park, Md.

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, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.). SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED MTH 2 1/2 BUSHEL 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 18 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SHALL CRAIN 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 1983 maryland standards and specifications for soil erosion and sediment control For rate and methods not covered.



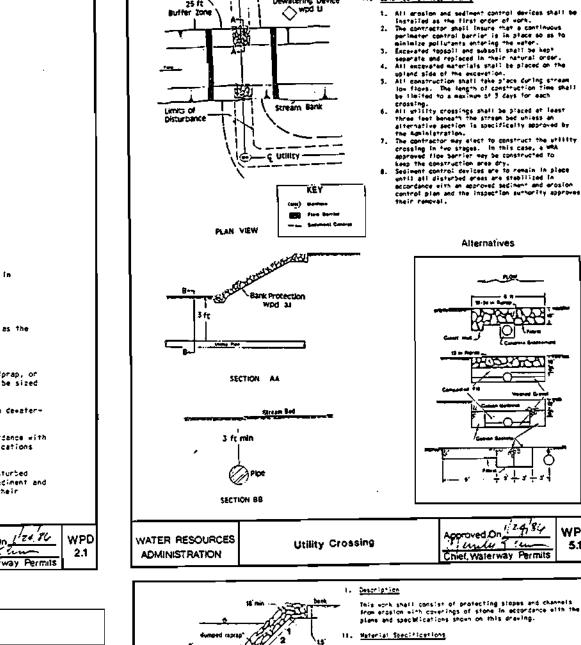
Construction Requirements

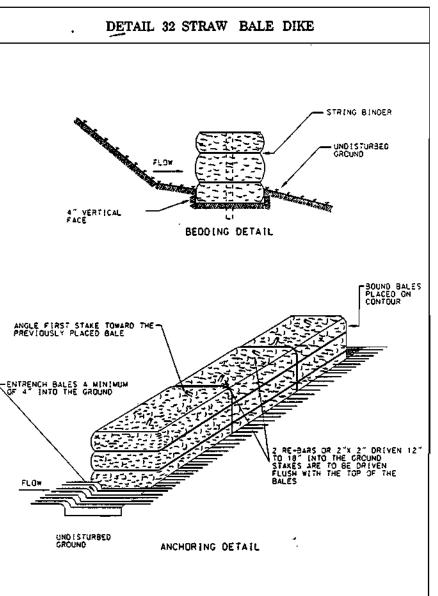
ADMINISTRATION

- 1. All erosion and sediment control devices shall be installed as the first order of business.
- * 2. Pipes must be sized to accommodate normal stream flow.
- The flow barrier shall be constructed of sandbags, washed riprap, or other approved material as per NPO2.3. The materials shall be sized to withstand normal stream flow velocities. Att devatering of the construction area shall be pumped to a devater-ing basin (kPD1.1) prior to re-entering the stream.
- The temporary culvent crossing shall be constructed in accordance with Standard Detail (TAZ-I), 1983 Maryland Standards and Specifications for Sediment and Erosion Control.
- 6. Sediment control devices shall remain in place until all disturbed areas have been stabilized in accordance with an approved sediment and

Culvert Pipe with Access Road

erosion control plan and the inspecting authority approves their WATER RESOURCES





STRAW BALE DIKE

CONSTRUCTION SPECIFICATIONS

1. Bales shall be placed at the top of a slope, on the contour, and in a row with the ends of each bale tightly.

2. Each base shall be entrenched in the sall a minimum of 4 inches and placed so the bindings are norizontal. 3. Bales shall be securely anchored in place by either two stakes on re-bans arilyen through the bale 12 to 18 inches into the ground. The first stake in each base shall be driven toward the previously tald bate at an angle to force the bates

4. Straw bale dikes shall be inspected frequently and after each rain event and maintenance performed as necessary. 5. All bales shall be removed when the site has been

stabilized. The trunch where the bales were lacated shall be

together. Stakes shall be ariven flush with the top of the

PERMANENT SEEDING NOTES

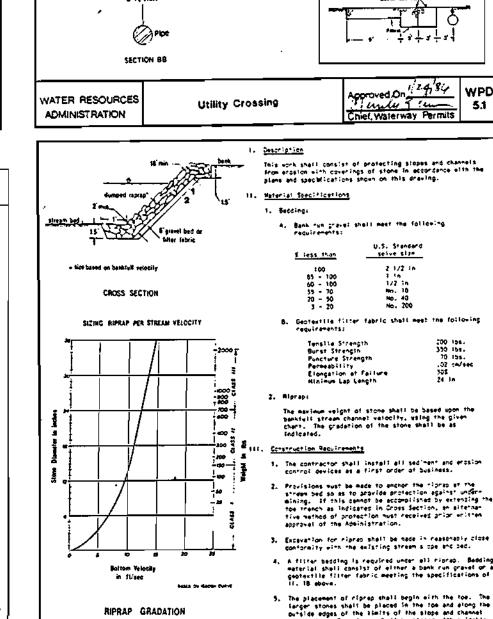
graded flush and stabilized.

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, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. <u>SOIL AMENDMENTS:</u> IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

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) SEFORE SEEDING. HARROW OR DISC 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 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 LOVECRASS. DURING THE PERIOD OF OCTOBER 15 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.

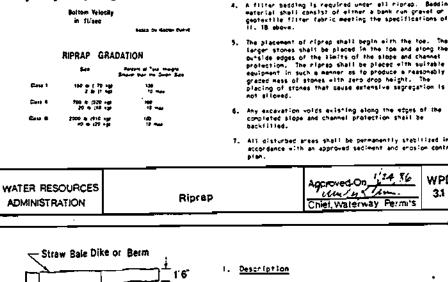
MULCHING -- APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ACHORING. MAINTENANCE --- INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESERVINGS.

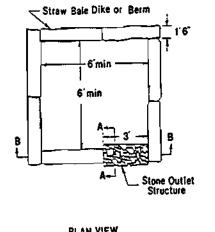


. <u>Description</u>

Construction Requirements

This work shell consist of installing erasion control devices in and adjacent to temporary street commistraction such as utility crossings.





The work shall consist of the construction of a devatering basin for the purpose of receiving sediment-laden water pumped from a construction site to alice filtration before the water re-enters the waterway. 11. Moterial Specifications 1. Riprap: Riprap shall consist of 4-8 inch reshed stone or gravel.

2. Filter Fabric: The filter cloth shell be

a woven or nonwoven fabric consisting only of continuous chain polymeric filaments or yarns of polyester. The fabric shall be nert to commonly encountered chemicals. hydro-carbons, mildew, and not resistant. No. 6 stone (AASHTO 57) may be used on the inner-face for filtering instead of fabric.
3. Strawbales: Strawbales shall meet the criterie as specified in the Maryland Standards and Specifications for Soll Erosion and Sediment Control.

III. Construction Requirements 1. The contractor shall install all sediment and erosion control devices as the first order of business. Excavated materials shall be stored such that sediments are prevented from entering the waterway; i.e., sediment perimeter controls may be necessary.

Excavated subsoit and topsoit shall be

kept separate and replaced in their natural order. 4. Any devatering of the construction area shall be filtered through a devatoring shall be filtered through a sewatering basin prior to entering the waterway.

5. The devatering basin shall be excavated to a minimum depth of 3 feet.

6. Once the devatering basin becomes filled to 1/2 of the excavated depth, accumulated sediment shall be removed and disposed of in a SCD approved disposal area outside the 100-year floodslain unless otherwise SECTION AA

1.5' to 2' Rebar or Stakes the 100-year floodplain unless otherwise approved on the plans by the MRA. Sediment control devices are to remain in place until all disturbed areas are stabilized and the inspecting authority approves their renoval. All ground contours shall be returned to their original condition unless specifically SECTION B B

Approved On 1. 24.85 WPD

Chief, Waterway Permits 1.1 VATER RESOURCES Dewatering Basins ADMINISTRATION

> RIVER HILL SECT. 4 CONTRACT #3U-3294 D

moher Albertamol Like 12/23/93

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PHOENIX ENGINEERING, INC. CONSULTING ENGINEERS 817 MAIDEN CHOICE LANE, SUITE 300 BALTIMORE, MARYLAND ,21228 PHONE: (410) 247-8833 FAX: (410) 247-9397

DRN: A.J.R CHK: J.R.H DATE: 9/93 600' SCALE MAP NO. BY NO.

SEDIMENT CONTROL NOTES AND DETAILS

BLOCK NO.

COLUMBIA VILLAGE OF CRICKET CREEK EXTENSION

ELECTION DISTRICT 5

CONTRACT NO. 30-3294 D

SCALE: AS SHOWN

DRAWING NO. 6 OF 6