UPTON ROAD WATER MAIN EXTENSION & ROUTINE SEWER MAIN EXTENSION HOWARD COUNTY, MARYLAND

GENERAL NOTES

- 1. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES 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, NAD 83/91.
- 3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM NGVD29
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED
- 5. CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-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
- 6. 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
- 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.
- 8. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT&T.....410-865-3803 BG&E (CONTRACTOR SERVICES).....410-850-4620 BG&E - UNDERGROUND DAMAGE CONTROL.....410-787-9068

BUREAU OF UTILITIES (DPW)......410-313-4900 VERIZON.1-800-743-0033 / 410-224-9210 COLONIAL PIPELINE CO.410-795-1390

MISS UTILITY1-800-257-7777 STATE HIGHWAY ADMINISTRATION410-531-5533

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

9. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT.

CONSTRUCTION OF THE MAIN . 11. 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 MAINS, SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE

COUNTY CODE.

12.ALL WATER MAINS SHALL BE D.I.P CLASS 52 UNLESS OTHERWISE NOTED. 13.TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.

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 BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS.

COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD

THE 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.

- 18. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE VARIOUS BUSINESSES AND COORDINATING HIS WORK ACTIVITIES SO AS NOT TO NEGATIVELY IMPACT CONNECTED CUSTOMERS. THE REHABILITATION OF WATER MAIN SHALL CAUSE A MINIMUM DISTURBANCE TO THE EXISTING BUSINESSES AND NOTIFICATION TO THE BUSINESS OF ANY "INTERRUPTION OF SERVICE" SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COUNTY REQUIRES THAT THE CONTRACTOR NOTIFY EACH BUSINESS AFFECTED BY LETTER OR DOOR TAGS OF THE IMPENDING SERVICE INTERRUPTION AT LEAST 72 HOURS IN ADVANCE OF THE
- PLANNED INTERRUPTION. 19. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF UTILITIES HOWARD COUNTY,

15 DAYS PRIOR TO WATER MAIN SHUT DOWNS. 20.ALL SEWER MAINS SHALL BE PVC UNLESS OTHERWISE NOTED.

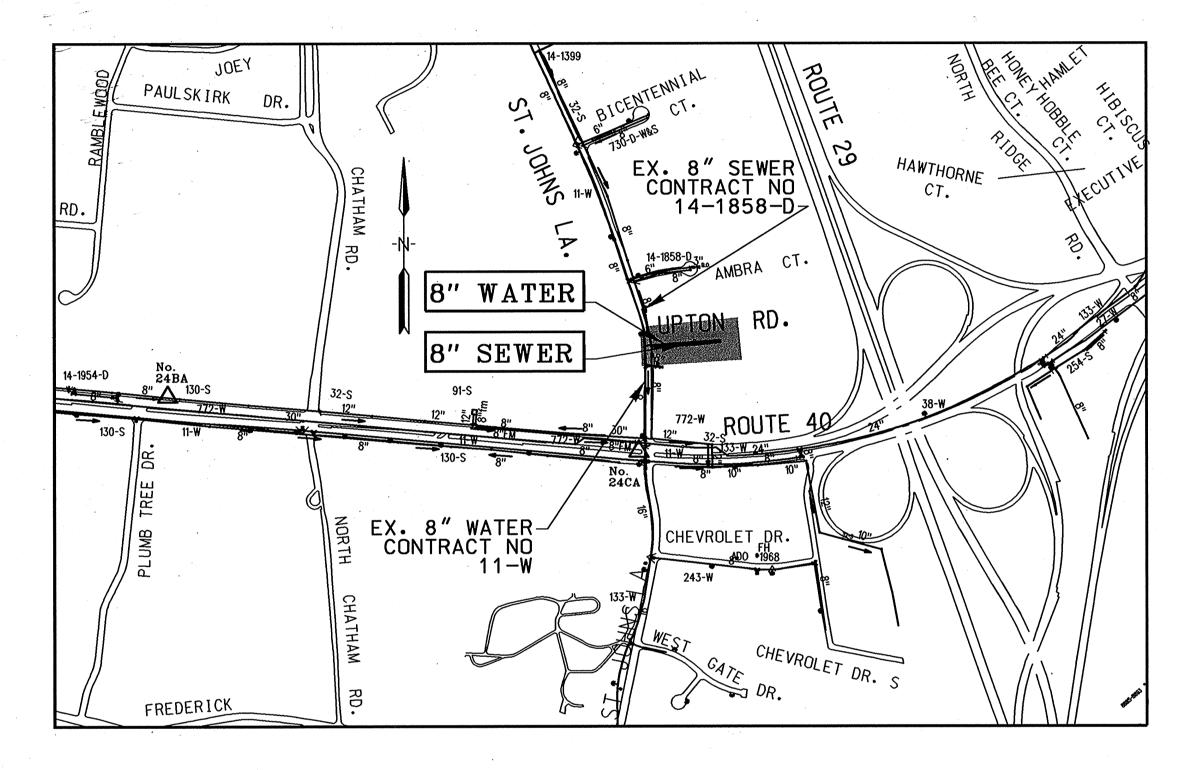
21.ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.

22. THE CONTRACTOR SHALL PROVIDE SURVEY CONSTRUCTION STAKEOUT FOR ALL NECESSARY LINES, GRADES AND ELEVATION OF THE PROPOSED FACILITIES.

DEPARTMENT OF PUBLIC WORKS

CAPITAL PROJECT No. W-8253, S-6698

CONTRACT No. 14-4106



LOCATION MAP

SCALE: 1"= 600'

TYPE OF BUILDING: RESIDENTIAL NUMBER OF PARCELS: NUMBER OF SEWER HOUSE CONNECTIONS: 3 NUMBER OF WATER HOUSE CONNECTIONS: 3 DRAINAGE AREA:

PATAPSCO

(FOR COUNTY USE ONLY)

(FOR COUNTY USE ONLY)

HOWARD COUNTY GEODETIC SURVEY CONTROL

586783.250 1359211.698 ELEV. 386.36

586506.183 1361634.312 ELEV. 399.04

NO. 24CA

NAD83(91) (HORIZONTAL) NGVD29 (VERTICAL)

INDEX OF SHEETS

SHEET No.

DESCRIPTION

1 TITLE SHEET

····· PLAN AND PROFILE

3 EROSION & SEDIMENT CONTROL, NOTES & DETAILS

QUANTITIES					
ITEM	UNIT	ESTIMATE	AS-BUILT	MATERIAL	SUPPL I ER
8" DIP WATER	LF	308	308	AMSTEAD	
6" DIP WATER	LF	99	126	"	_
FIRE HYDRANT	EA	1	1	MUELLER	
6" VALVE	EA	1	1	U.S.PIPE	
BLOWOFF VALVE	EA	1	1	P 11	
1" WHC	LF	42	42 L.F.	K COPPER	
8" PVC SEWER	LF	373	373L.F.	□ .M.	
4'DIA ST'D MH	EA	1	1	ATLANTIC	
4' DIA ST'D MH RISER	VF	1.5	1.5 V.F.	"	
TYPE 'B' DROP MH CONNECTION	EA	1	1	J.M.	
4" TYPE 'A' DHC	VF	12.5	12.5L.F.	"	
4" SHC	LF	35	35 L.F.	"	
NAME OF UTILITY CONTRACTOR:					

CHECKBOX AS-BUILT DATE: SURVEY AND DRAFTING DIVISION

RESTORATION SCHEDULE			
LOCATION	DISTANCE	TYPE	
WATER STATION 0+00 TO 3+98	398 LF.	BITUMINOUS CONCRETE	
EX. SMH 913 TO SMH 1	373 LF.	BITUMINOUS CONCRETE	

LEGEND

◬	TRAVERSE POINT	(S)		MANHOLE	
	SAN. SEWER	WW	EXISTING	WATER MAIN	
0	MANHOLE	GG	EXISTING	GAS MAIN	
	SEWER HOUSE CONNECTION	EE	EXISTING	UNDER GROUND	ELECTRI
	WATER	OH		OVERHEAD	
	WETLAND		SERVICE	IC TOEE	

DECIDUOUS TREE

CONIFEROUS TREE

----s---s- EXISTING SAN. SEWER

AS SHOWN

SHEET

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND





ES: KAK	KVK		_	
RN: KFJ	KFJ			
		٠.		
CHK:	TWW			
ATE:	9/03	K.C.I	1	ASBUILT ASBUILT DATA
		BY	NO.	REVISION

TITLE SHEET

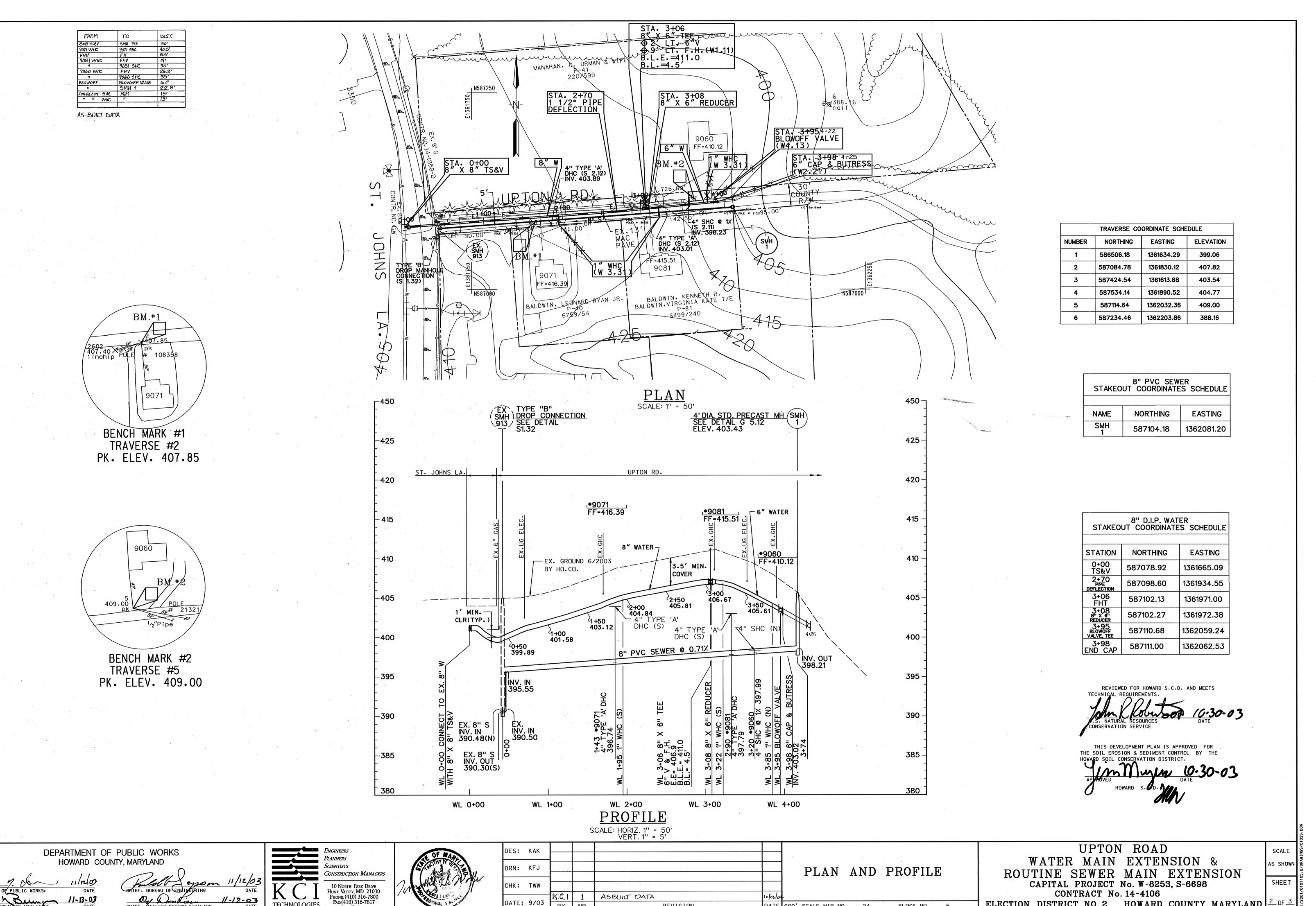
BLOCK NO. _

600' SCALE MAP NO. 24

UPTON ROAD WATER MAIN EXTENSION & ROUTINE SEWER MAIN EXTENSION CAPITAL PROJECT No. W-8253, S-6698

ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND 10F-

CONTRACT No. 14-4106



ASBUILT DATA

NO.

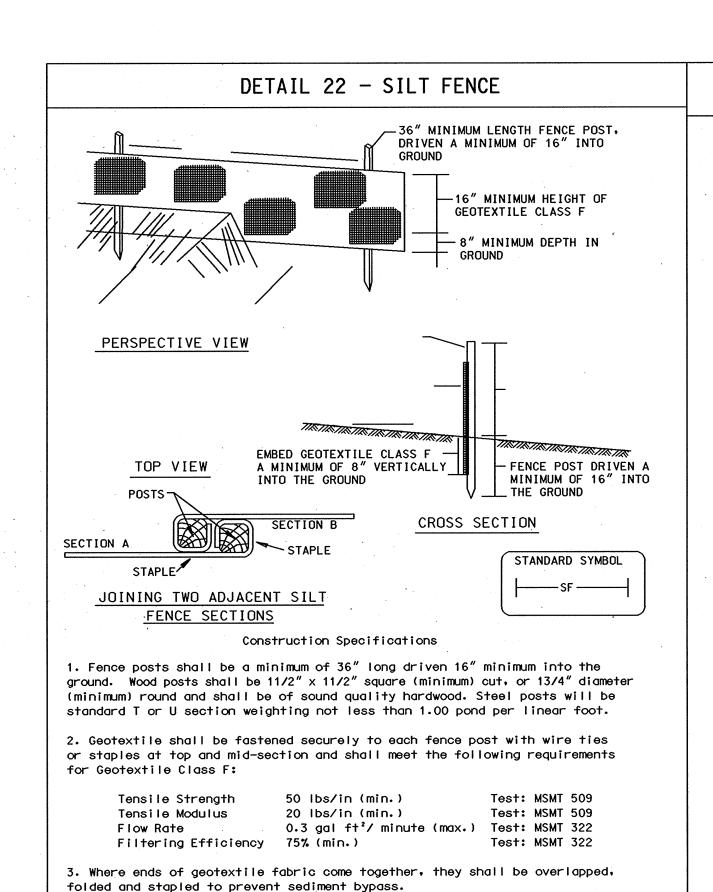
REVISION

DATE 600' SCALE MAP NO. 24

BLOCK NO.

DATE: 9/03

ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND $\frac{2}{3}$ OF $\frac{3}{3}$



4. Silt Fence shall be inspected after each rainfall event and maintained when

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION

bulges occur or when sediment accumulation reached 50% of the fabric height.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR

<u>SOIL AMENDMENTS</u>: 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

2)ACCEPTALBE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT.)

ND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ FT.) BEFORE

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

DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1)

IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY

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

(5 GAL/1000 SQ FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR

MAINTENANCE - INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS

400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ FT.).

PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ FT.) OF WEEPING LOVEGRASS.

AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE

HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT.) FOR ANCHORING.

2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE

WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.

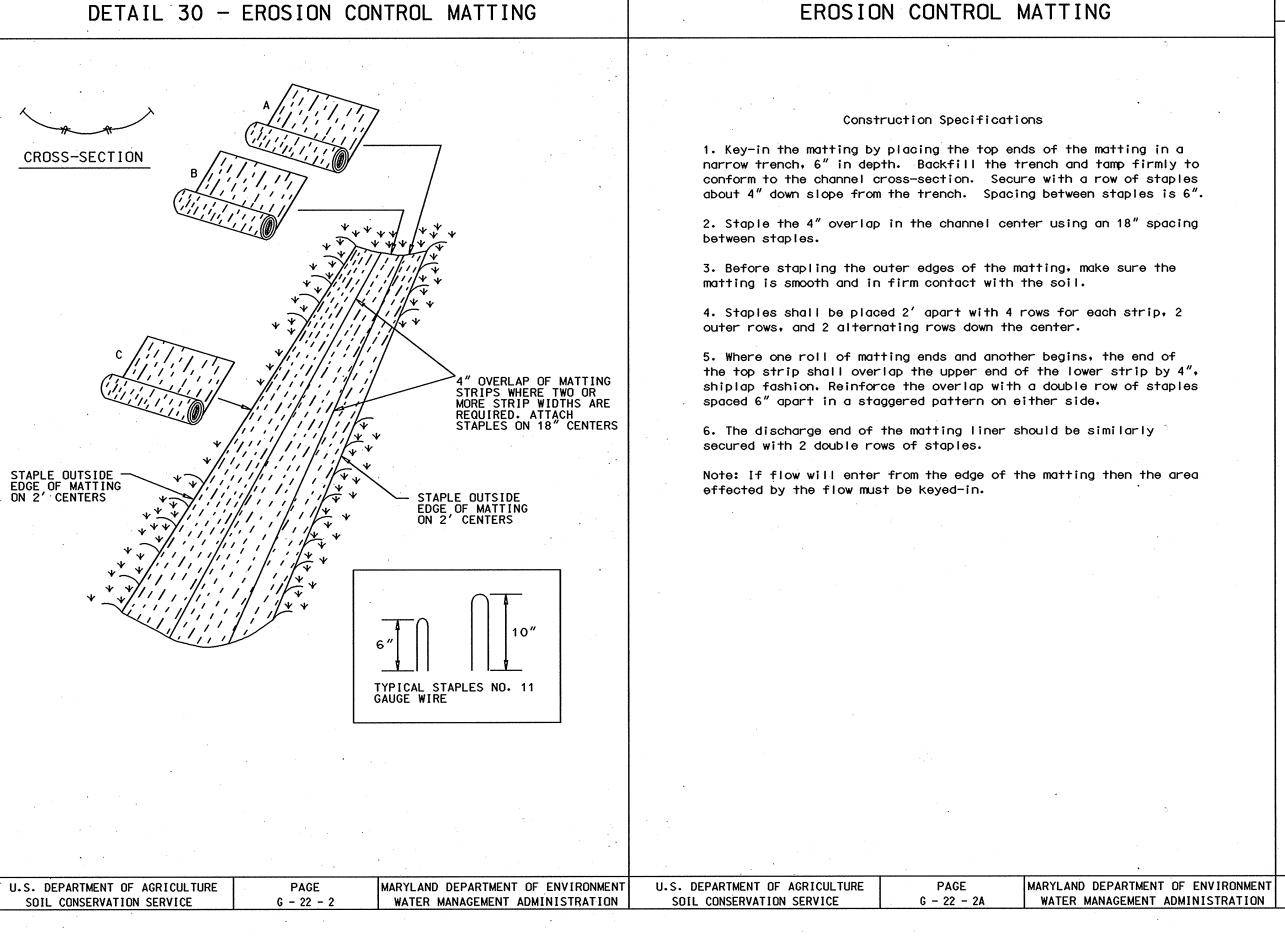
SEEDING. HARROW OF DISK INTO UPPER THREE INCHES OF SOIL.

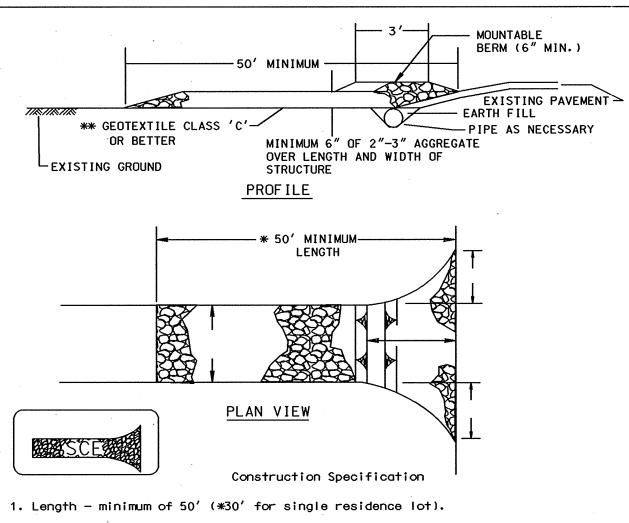
31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

AND RESEEDINGS.





DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.

3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile.

4. Stone – crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the

5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.

Location – A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

F - 17 - 3

STANDARD SEDIMENT CONTROL NOTES

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF

INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START

2. ALL VEGETIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS

OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS

a) 7 CALENDER DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER

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

5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN

5. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN

ACRES

OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE

CU. YDS.

CU. YDS.

N/A

8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF

9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED. IF DEEMED NECESSARY BY THE HOWARD

10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION

SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR

II. 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

AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND

GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL

0.002

SEDIMENT CONTROL (SEC. G20.0) FOR PERMANENT SEEDINGS, SOD, TEMPORARY SEEDING

AND MULCHING. TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE

WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND

0.060 ACRES

UTILITIES MUST BE REPAIRED ON THE SAME DAY OF THE DISTURBANCE.

THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

N/A

N/A

ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND

AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO.

. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY

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

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

OF ANY CONSTRUCTION, (313-1855).

MANUAL, STORM DRAINAGE.

ESTABLISHMENT OF GRASSES.

TOTAL AREA OF SITE

AREA TO BE ROOFED OR PAVED

COUNTY SEDIMENT CONTROL INSPECTOR.

ARFA DISTURBED

7. SITE ANALYSIS:

TOTAL CUT

TOTAL FILL

IS SHORTER.

STABILIZATION SHALL BE COPLETED WITHIN:

SLOPES AND ALL SLOPES GREATER THAN 3:1.

HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

AREA TO BE VEGATATIVELY STABILIZED

OFFSITE WASTE/BORROW AREA LOCATION

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DEVELOPER'S CERTIFICATION

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPART-MENT 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 DEPARTMENT OF PUBLIC WORKS

ENGINEER'S CERTIFICATION

"I/WE CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

REVIEWED FOR HOWARD S.C.D. AND MEETS

THIS DEVELOPMENT PLAN IS APPROVED FOR THE SOIL EROSION & SEDIMENT CONTROL BY THE

HOWARD SOIL CONSERVATION DISTRICT.

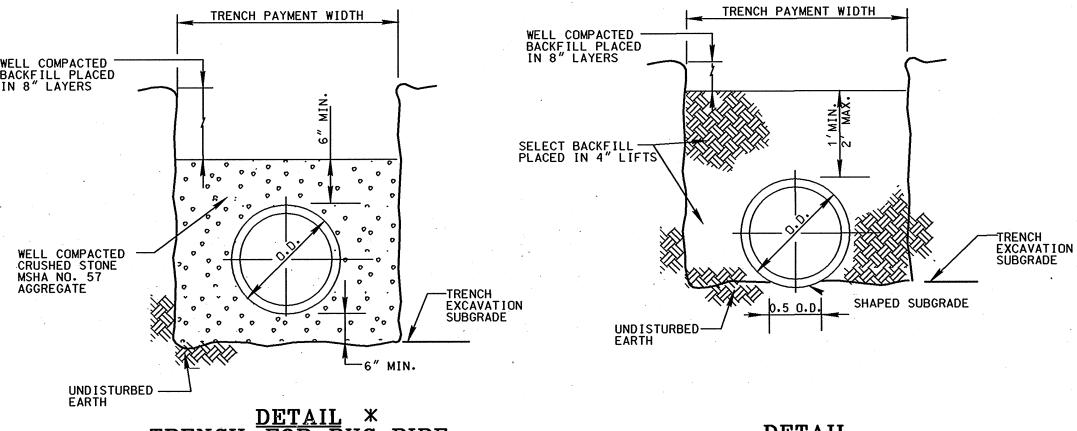
TRAFFIC MAINTENANCE

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT.

- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO 25' OF PIPE LENGTH OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY. WHICHEVER

SEDIMENT CONTROL INSPECTOR. (1 DAY)



★BASED ON HOWARD COUNTY STANDARD DETAIL G2.01

DENSITY POLYETHYLENE PIPE

TEMPORARY SEEDING NOTES

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

<u>SEEDBED PREPARATION:</u> LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING 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 OCTOBER 15. SEED WITH 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 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 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

DEPARTMENT OF PUBLIC WORKS

FOR TRAFFIC MAINTENANCE REQUIREMENTS SEE SPECIFICATION DOCUMENT D, PARAGRAPH 4.16.

- 2. LAYOUT ALIGNMENT AT SITE. (1 DAY)
- 3. INSTALL SEDIMENT CONTROL DEVICES AS NEEDED.
- 4. EXCAVATE DITCH TO THE GRADE SPECIFIED ON THE PROFILE.
- INSTALL WATER AND SEWER MAINS AND BACKFILL TRENCH AND RESURFACE WITH BITUMINOUS PAVING (30 DAYS)
- 5. CLEAN UP CONSTRUCTION SITE. (1 DAY)
- 6. REMOVE SEDIMENT CONTROL DEVICES AFTER PERMISSION IS GRANTED BY THE

WELL COMPACTED BACKFILL PLACED IN 8" LAYERS

REVISION

DES: KAK

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

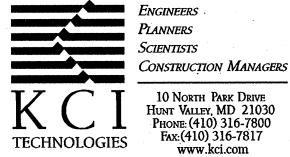
FENCE ON DOWNHILL SIDE OF TRENCH.

UPTON ROAD WATER MAIN EXTENSION & ROUTINE SEWER MAIN EXTENSION CAPITAL PROJECT No. W-8253, S-6698

CONTRACT No. 14-4106 ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND

DATE

HOWARD COUNTY, MARYLAND CHIEF, BUREAU OF ENGINEENING



DRN: KFJ CHK: TWW ASBUILDT DATA DATE: 9/03 NO.

DATE 600' SCALE MAP NO. 24

BLOCK NO. ____5

SHEET

SCALE

AS SHOWN