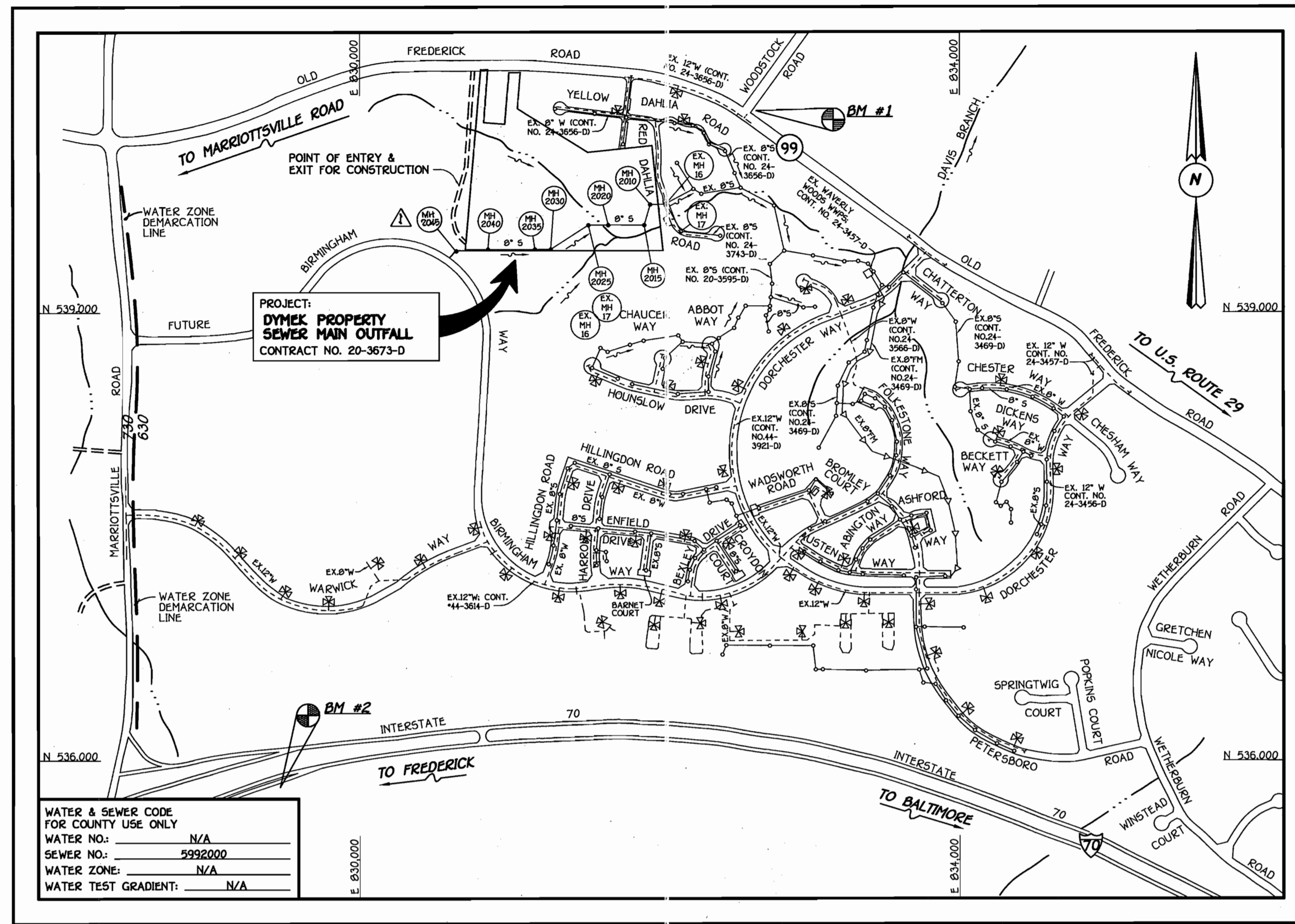


QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		SUPPLIER
		QUANTITIES	TYPE	
8" SEWER	1,145 L.F.			
8" SEWER (D.I.P.)	366 L.F.			
MANHOLES	8 EACH			
NAME OF UTILITY CONTRACTOR:				
SURVEY & DRAFTING DIVISION AS-BUILT DATE:				



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.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES, NAD 83.
- ALL VERTICAL CONTROLS ARE BASED ON NAVD 29.
- ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-0" MINIMUM.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (0991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL BM 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 VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO THE EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - AT&T 1-800-526-2000
 - BGE (CONTRACTOR SERVICES) 410-850-4620
 - BGE (UNDERGROUND DAMAGE CONTROL) 410-787-9096
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 410-313-4900
 - BELL ATLANTIC MARYLAND, INC. 1-800-621-9900
 - COLONIAL PIPELINE CO. 410-795-1390
 - MESS UTILITY 1-800-257-7777
 - STATE HIGHWAY ADMINISTRATION 410-531-5533
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. 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 THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CONSTRUCTION OF THE MAIN.
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- T.B. DENOTES TEST BORING.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT 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 PLANS OR SPECIFICATIONS.
- HOUSES WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS, STANDARD DETAIL G5.51.
- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- ALL WATER MAINS SHALL BE D.I.P., CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TREES SHALL BE STRAPPED TO TREES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (W111 AND W213). SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER MAIN SYSTEM.
- ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH THE AWWA SPECIFICATIONS C-153; DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
- CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, (410) 313-2450 AT LEAST FIVE (5) WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.1(a) OF THE HOWARD COUNTY CODE.

WATER & SEWER CODE FOR COUNTY USE ONLY	N/A
WATER NO.:	5992000
SEWER NO.:	N/A
WATER ZONE:	N/A
WATER TEST GRADIENT:	N/A

TYPE OF BUILDING:	FUTURE RESIDENTIAL DEVELOPMENT
NUMBER OF LOTS & PARCELS:	N/A
NO. OF WATER HOUSE CONNECTIONS:	N/A
NO. OF SEWER HOUSE CONNECTIONS:	N/A
DRAINAGE AREA:	LITTLE PATUXENT
TREATMENT PLANT:	PATAPASCO WASTEWATER TREATMENT PLANT; CITY OF BALTIMORE VIA THE WAVERLY WASTEWATER PUMPING STATION

VICINITY MAP
SCALE: 1"=600'

DEVELOPER'S CERTIFICATION
I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Paul W. Keibel FOR: 09/05/02
Waverly Woods Development Corp. DATE
SIGNATURE OF DEVELOPER

ENGINEER'S CERTIFICATION
I HEREBY 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.

Paul W. Keibel 09-05-02
SIGNATURE OF ENGINEER DATE

MDE *02-NT-0214/200263886

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Jim Myers 9-30-02
U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.

APPROVED:
John R. Robertson 9-30-02
HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND AS SHOWN ON THESE PLANS.

Paul W. Keibel FOR: 09-05-02
Waverly Woods Development Corp. DATE
SIGNATURE OF DEVELOPER

GP-02-125

CONTRACT No. 20-3673-D
DYMEK PROPERTY
SEWER MAIN OUTFALL
HOWARD COUNTY, MARYLAND

BENCHMARK INFORMATION	
B.M.#1 - HOWARD COUNTY CONTROL STATION #1012 (NAD 83) (NEAR THE INTERSECTION OF MARYLAND ROUTE 99 & WOODSTOCK ROAD)	N 601,060.177 E 1,345,336.750 ELEVATION = 445.577
B.M.#2 - HOWARD COUNTY CONTROL STATION #16E1 (NAD 83) (NEAR THE INTERSECTION OF U.S. ROUTE 40 & MARIOTTVILLE ROAD)	N 593,250.932 E 1,340,192.711 ELEVATION = 509.924

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

R. J. ... 9-20-02
DATE
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

... 10/1/02
DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PkE
ELLICOTT CITY, MARYLAND 21044
4100 461 - 2000



DESIGNED BY: P.W.K.
DRAWN BY: M.D.T.
CHECKED BY: P.W.K.
DATE: SEPT. '02

DATE: 9/4/02

BY NO. REVISION

TITLE SHEET

600' SCALE MAP NO. 15 BLOCK NO. 5 & 6
F.C.C. WORK ORDER NO. 529
FILE NAME: 529.FINAL SEWER TITLE SHEET

DYMEK PROPERTY SEWER MAIN OUTFALL
CONTRACT NO. 20-3673-D
THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 1 of 5

CONTRACT NO. 20-3673-D
DYMEK PROPERTY SEWER MAIN OUTFALL
HOWARD COUNTY, MARYLAND

ALL DISTURBANCES TO EXISTING FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL GIVE MR. & MRS. DYMEK TEN (10) DAYS NOTICE PRIOR TO THE START OF CONSTRUCTION.

THE CONTRACTOR SHALL MAINTAIN ACCESS TO WATER ON THE PROPERTY FOR THE CATTLE.

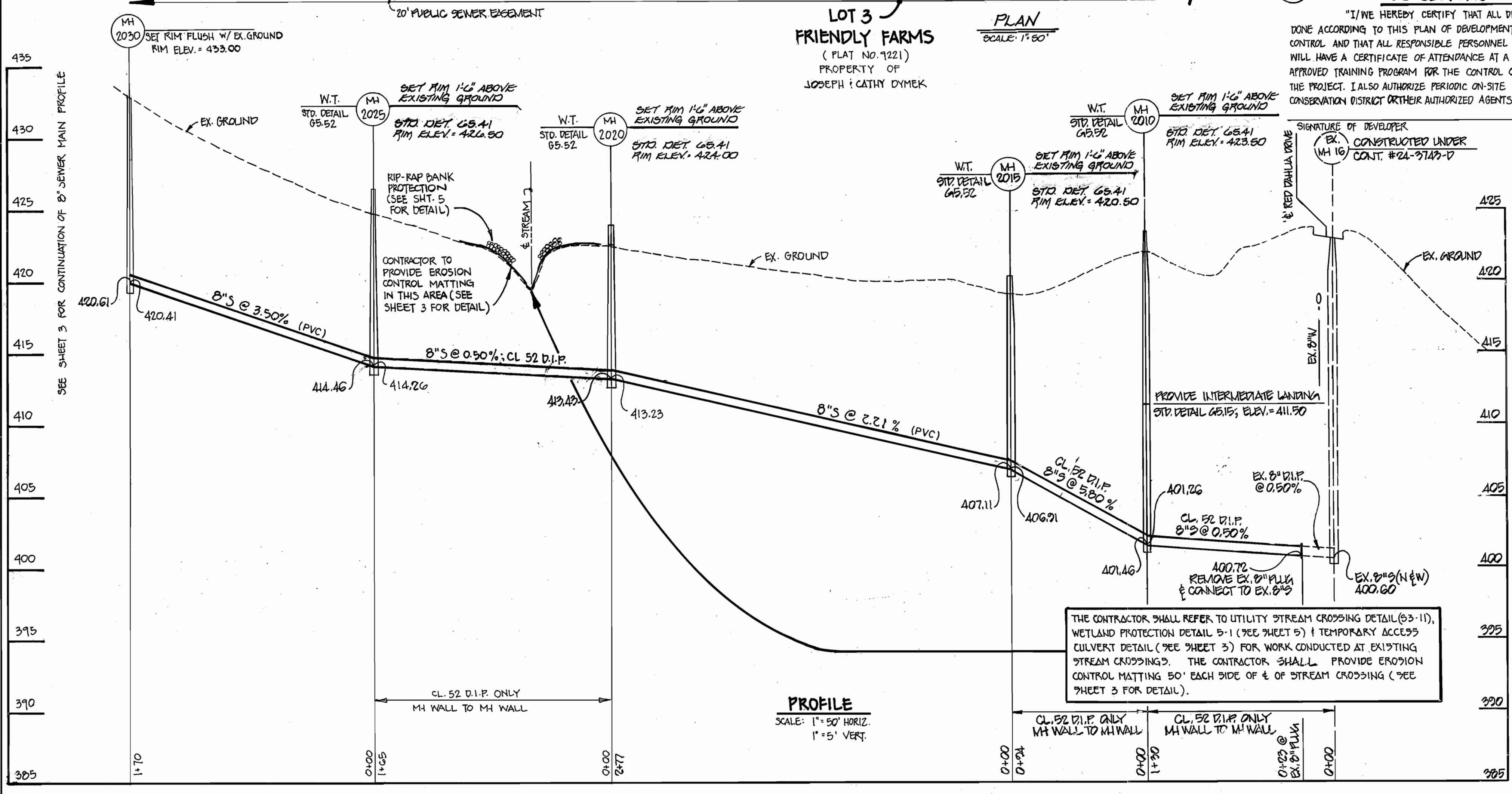
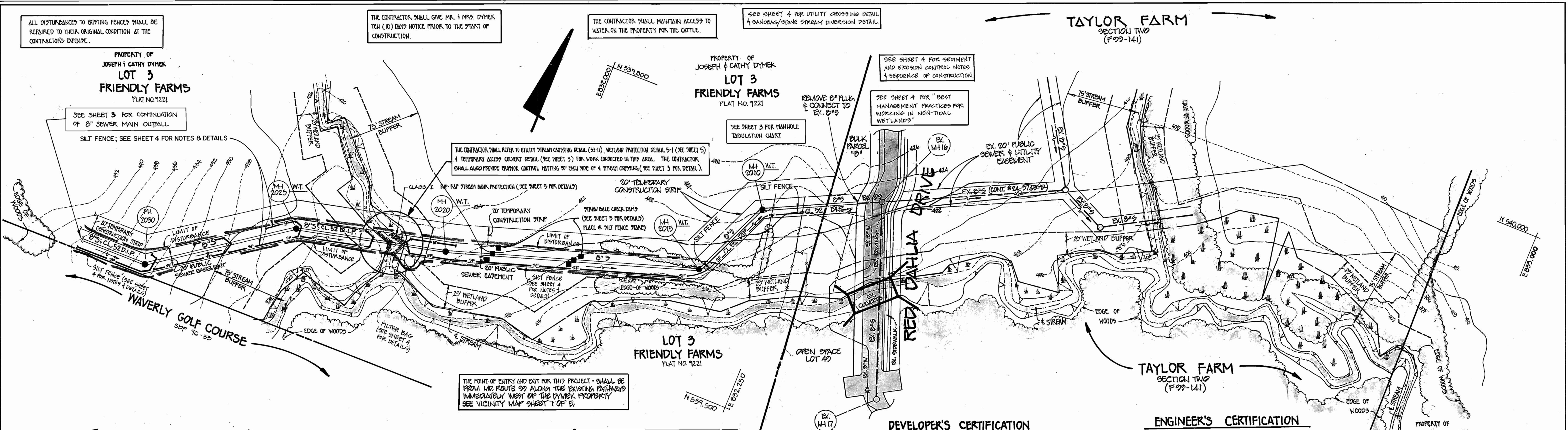
SEE SHEET 4 FOR UTILITY CROSSING DETAIL & SANDBAG/STONE STREAM DIVERSION DETAIL.

SEE SHEET 4 FOR SEDIMENT AND EROSION CONTROL NOTES & SEQUENCE OF CONSTRUCTION.

SEE SHEET 4 FOR "BEST MANAGEMENT PRACTICES FOR WORKING IN NON-TIDAL WETLANDS"

THE CONTRACTOR SHALL REFER TO UTILITY STREAM CROSSING DETAIL (S-11), WETLAND PROTECTION DETAIL S-1 (SEE SHEET 5) & TEMPORARY ACCESS CULVERT DETAIL (SEE SHEET 3) FOR WORK CONDUCTED IN THIS AREA. THE CONTRACTOR SHALL ALSO PROVIDE EROSION CONTROL MATTING 50' EACH SIDE OF & STREAM CROSSING (SEE SHEET 3 FOR DETAIL).

THE POINT OF ENTRY AND EXIT FOR THIS PROJECT SHALL BE FROM MD ROUTE 99 ALONG THE EXISTING PATHWAYS IMMEDIATELY WEST OF THE DYMEK PROPERTY SEE VICINITY MAP SHEET 1 OF 2.



DEVELOPER'S CERTIFICATION

"I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

SIGNATURE OF DEVELOPER: _____ DATE: _____
 EX. MH 16 CONSTRUCTED UNDER CONTRACT #21-3123-D

ENGINEER'S CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN FOR EROSION & SEDIMENT CONTROL REPRESENT 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."

SIGNATURE OF ENGINEER: _____ DATE: _____

TAYLOR FARM SECTION TWO (F09-141)

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DATE: 9-20-02
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 DATE: 10/11/02
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLEOTT CITY, MARYLAND 21114
 (410) 461-2055

DESIGNED BY: P.M.K.
 DRAWN BY: D.P.
 CHECKED BY: P.M.K.
 DATE: SEPT. 2002
 BY NO. REVISION

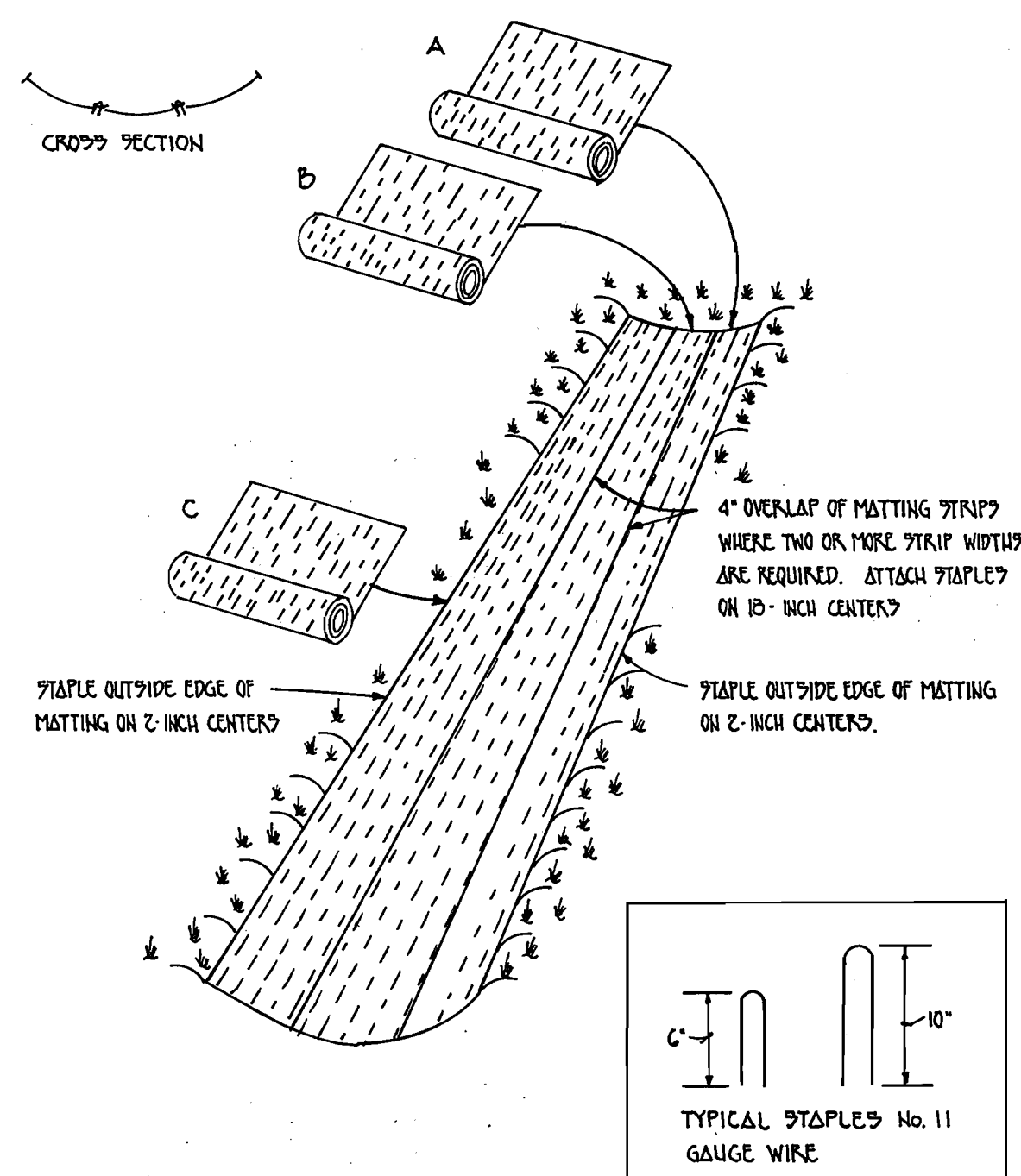
REVISIONS
 1. REVISED RIP-RAP CLASSIFICATION
 DATE: 3/4/03

SEWER MAIN PLAN & PROFILE
 600' SCALE MAP NO. 15 BLOCK NO. 3 and 6
 F.C.C. WORK ORDER NO. 528
 FILE NAME: G:\Drawings\528\Basesheet.dwg

DYMEK PROPERTY SEWER MAIN OUTFALL
 CONTRACT NO. 20-3673-D
 THIRD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE AS SHOWN
 SHEET 2 OF 5

CONTRACT NO. 20-3673-D
 DYMEK PROPERTY SEWER MAIN OUTFALL
 HOWARD COUNTY, MARYLAND

MANHOLE TABULATION CHART			
MH NO.	RIM ELEV.	NORTHING	EASTING
2010	423.50	539718.225	832207.285
2015	420.50	539630.817	832166.311
2020	424.00	539544.375	831904.515
2025	426.50	539507.305	831743.734
2030	423.00	539410.754	831603.811
2035	440.00	539410.322	831603.812
2040	462.20	539408.811	831153.815
8" PLUG		539373.95	830919.39
2045	466.40	539407.92	830962.82



EROSION CONTROL MATTING DETAIL

(SOIL EROSION & SEDIMENT CONTROL DETAIL No. 30)
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS FOR EROSION CONTROL MATTING

- KEY-IN THE MATTING BY PLACING THE TOP EDGES OF THE MATTING IN A NARROW TRENCH, C" IN DEPTH. BACKFILL THE TRENCH & TAMP FIRMLY TO CONFORM TO THE CHANNEL CROSS-SECTION; SECURE WITH A ROW OF STAPLES ABOUT 4" DOWN SLOPE FROM THE TRENCH. STAPLING BETWEEN STAPLES IS C".
- STAPLE THE 4" OVERLAP IN THE CHANNEL CENTER USING AN 18" STAPLING BETWEEN STAPLES.
- BEFORE STAPLING THE OUTER EDGES OF THE MATTING, MAKE SURE THE MATTING IS PROPERLY IN FIRM CONTACT WITH THE SOIL.
- STAPLES SHALL BE PLACED 2' APART WITH 4 ROWS ON EACH SIDE OF THE CHANNEL CENTER, & 2 ALTERNATING ROWS DOWN THE CENTER.
- WHERE ONE ROW OF MATTING ENDS & ANOTHER BEGINS, THE END OF THE TOP STAPLE SHALL OVERLAP THE UPPER END OF THE LOWER STAPLE BY 4", STAPLE IN THIS MANNER. REINFORCE THE OVERLAP WITH A DOUBLE ROW OF STAPLES PLACED C' APART IN A STAGGERED PATTERN ON EITHER SIDE.
- THE DISCHARGE END OF THE END OF THE MATTING LINE SHOULD BE SIMILARLY SECURED WITH 2 DOUBLE ROWS OF STAPLES.

NOTE:
IF FLOW WILL ENTER FROM THE EDGE OF THE MATTING THEN THE AREA EFFECTED BY THE FLOW MUST BE KEYED-IN.

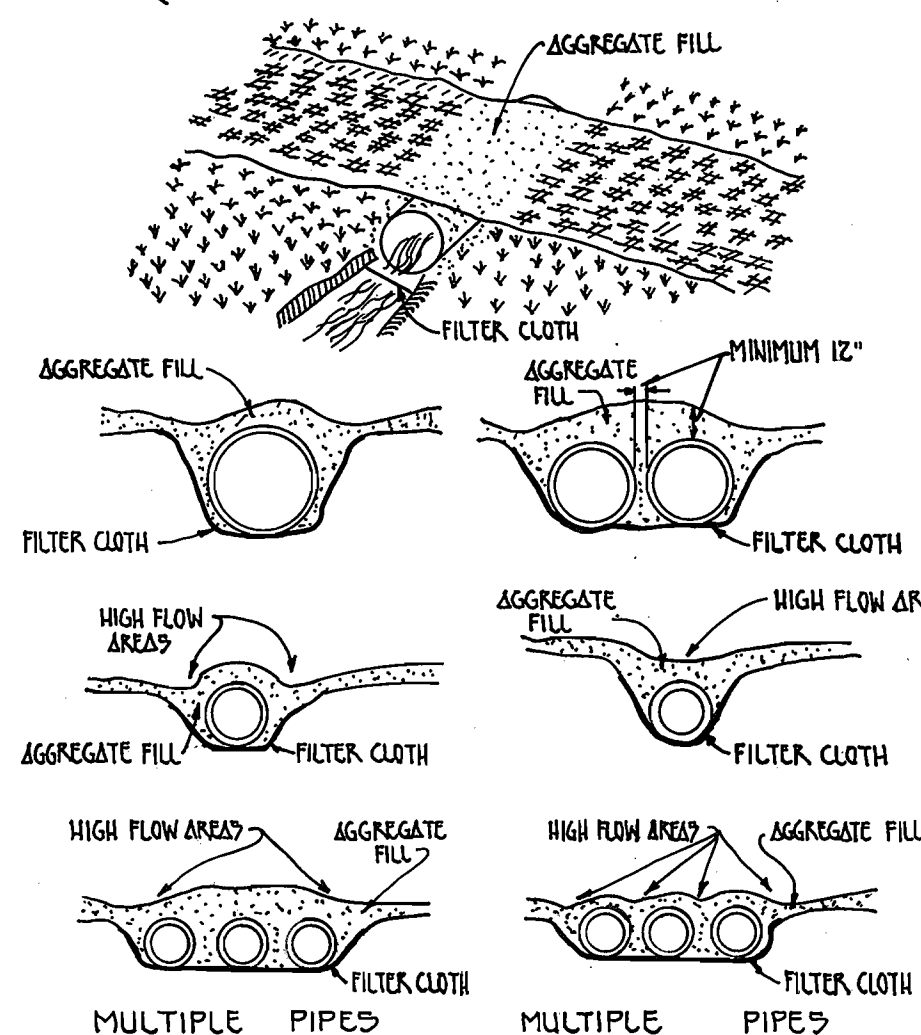
DEVELOPER'S CERTIFICATION

"I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

SIGNATURE OF DEVELOPER _____ DATE _____

TEMPORARY ACCESS CULVERT

(SOIL EROSION & SEDIMENT CONTROL DETAIL No. 30)



CONSTRUCTION SPECIFICATIONS

- RESTRICTIONS: NO CONSTRUCTION OR REMOVAL OF A TEMPORARY ACCESS CULVERT WILL BE PERMITTED BETWEEN CLASS III, OCTOBER 1 THROUGH APRIL 30 AND CLASS IV, MARCH 1 THROUGH MAY 31. FOR OTHER STREAMS, USE OR REMOVAL OF A TEMPORARY ROAD WILL BE PROHIBITED FROM MARCH 1 THROUGH JUNE 15 OF EACH YEAR, BECAUSE FISH ARE SPAWNING DURING THIS PERIOD.
- CULVERT STRENGTH - ALL CULVERTS SHALL BE STRONG ENOUGH TO SUPPORT THEIR CROSS SECTIONAL AREA UNDER MAXIMUM EXPECTED LOADS.
- CULVERT SIZE - THE SIZE OF THE CULVERT PIPE SHALL BE THE LARGEST PIPE DIAMETER THAT WILL FIT INTO THE EXISTING CHANNEL WITHOUT MAJOR EXCAVATION OF THE WATERWAY CHANNEL OR WITHOUT MAJOR APPROACH FILLS. IF A CHANNEL WIDTH EXCEEDS 3 FEET, ADDITIONAL PIPES MAY BE USED UNTIL THE CROSS SECTIONAL AREA OF THE PIPES IS GREATER THAN 60 PERCENT OF THE CROSS SECTIONAL AREA OF THE EXISTING CHANNEL. THE MINIMUM SIZE CULVERT THAT MAY BE USED IS 12" DIAMETER PIPE. IN ALL CASES, THE PIPE (S) SHALL BE LARGE ENOUGH TO CONVEY NORMAL STREAM FLOWS.
- CULVERT LENGTH - THE CULVERTS SHALL EXTEND A MINIMUM OF ONE FOOT BEYOND THE UPSTREAM AND DOWNSTREAM TOE TO THE AGGREGATE PLACE AROUND THE CULVERT. IN NO CASE SHALL THE CULVERT EXCEED 40 FEET IN LENGTH.
- GEOTEXTILE FABRIC - GEOTEXTILE FABRIC SHALL BE PLACED ON THE STREAMBED AND STREAM BANKS PRIOR TO PLACEMENT OF THE PIPE CULVERT(S) AND AGGREGATE. THE GEOTEXTILE FABRIC SHALL COVER THE STREAMBED AND EXTEND A MINIMUM SIX INCHES AND A MAXIMUM ONE FOOT BEYOND THE END OF THE CULVERT AND BEDDING MATERIAL. GEOTEXTILE FABRIC REDUCES SETTLEMENT AND IMPROVES CHOKING STABILITY.
- CULVERT PLACEMENT - THE INVERT ELEVATION OF THE CULVERT SHALL BE INSTALLED ON THE NATURAL STREAMBED GRADE TO MINIMIZE INTERFERENCE WITH FISH MIGRATION (FREE PASSAGE OF FISH).
- CULVERT PROTECTION - THE CULVERT (S) SHALL BE COVERED WITH A MINIMUM OF ONE FOOT OF AGGREGATE. IF MULTIPLE CULVERTS ARE USED THEY SHALL BE SEPARATED BY AT LEAST 12" OF COMPACTED AGGREGATE FILL.
- STABILIZATION - ALL AREAS DISTURBED DURING CULVERT INSTALLATION SHALL BE STABILIZED WITHIN 14 CALENDAR DAYS OF THE DISTURBANCE IN ACCORDANCE WITH THE STANDARDS FOR "CRITICAL AREA STABILIZATION WITH PERMANENT BEDDING".

ENGINEER'S CERTIFICATION

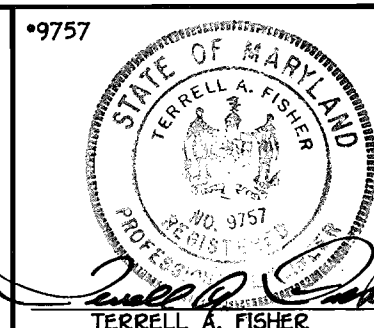
"I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF ENGINEER _____ DATE _____

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 12772 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
4101 461 - 2925



DESIGNED BY:	PWK
DRAWN BY:	BLP
CHECKED BY:	PWK
DATE:	SEPT. 2002
BY:	PCC
NO.:	1
REVISION:	REVISED MH TABULATION CHART, SEWER PLAN & SEWER PROFILE
DATE:	9/4/03

SEWER MAIN
PLAN AND PROFILE

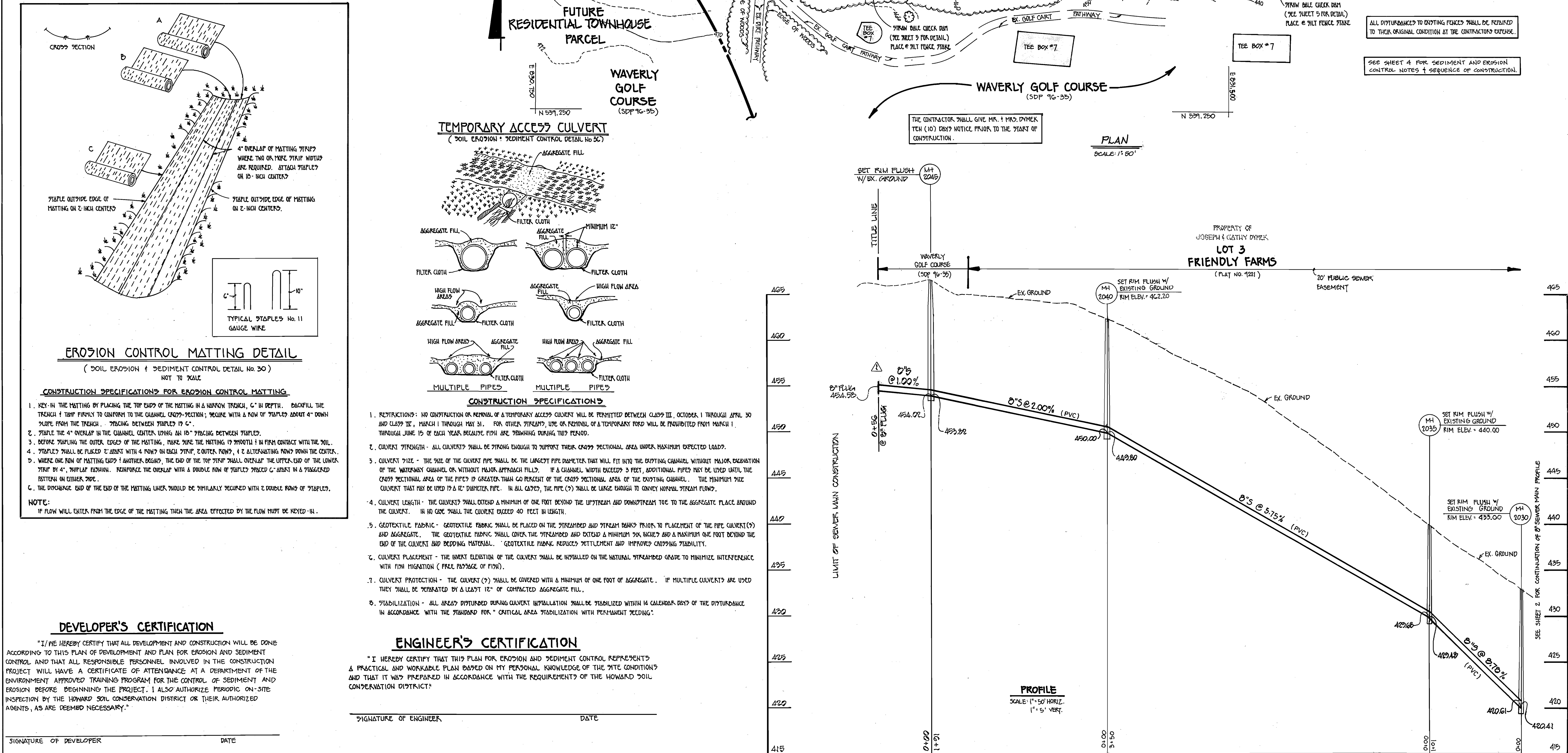
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F.C.C. WORK ORDER NO. 529
FILE NAME: G:\Drawings\229\Basesheet.dwg

DYMEK PROPERTY
SEWER MAIN OUTFALL

CONTRACT NO. 20 - 3673 - D
THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

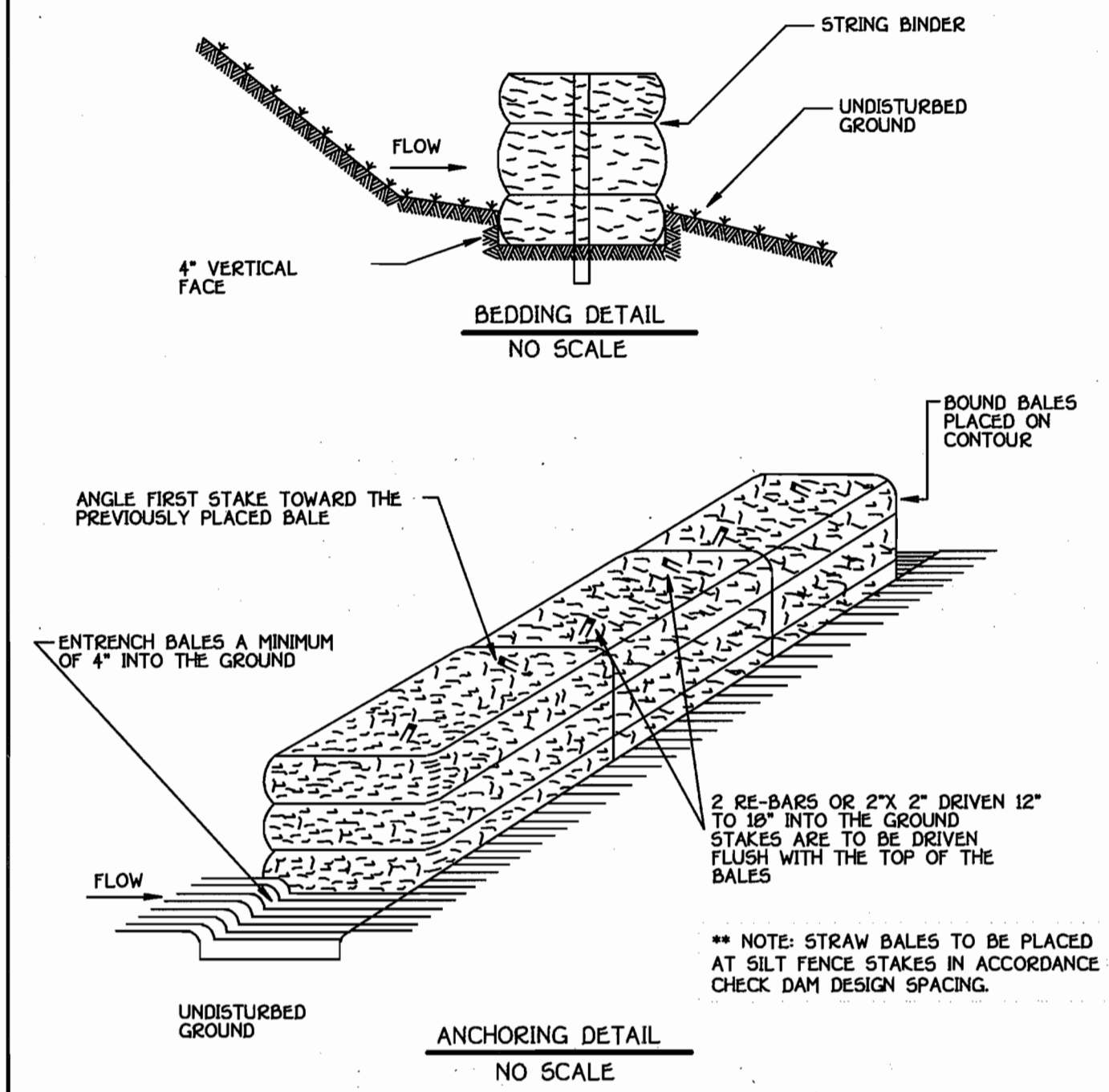
SCALE
AS
SHOWN

SHEET
3 OF 5



CONTRACT NO. 20 - 3673 - D
DYMEK PROPERTY SEWER MAIN OUTFALL
HOWARD COUNTY, MARYLAND

DETAIL 32 - STRAW BALE DIKE

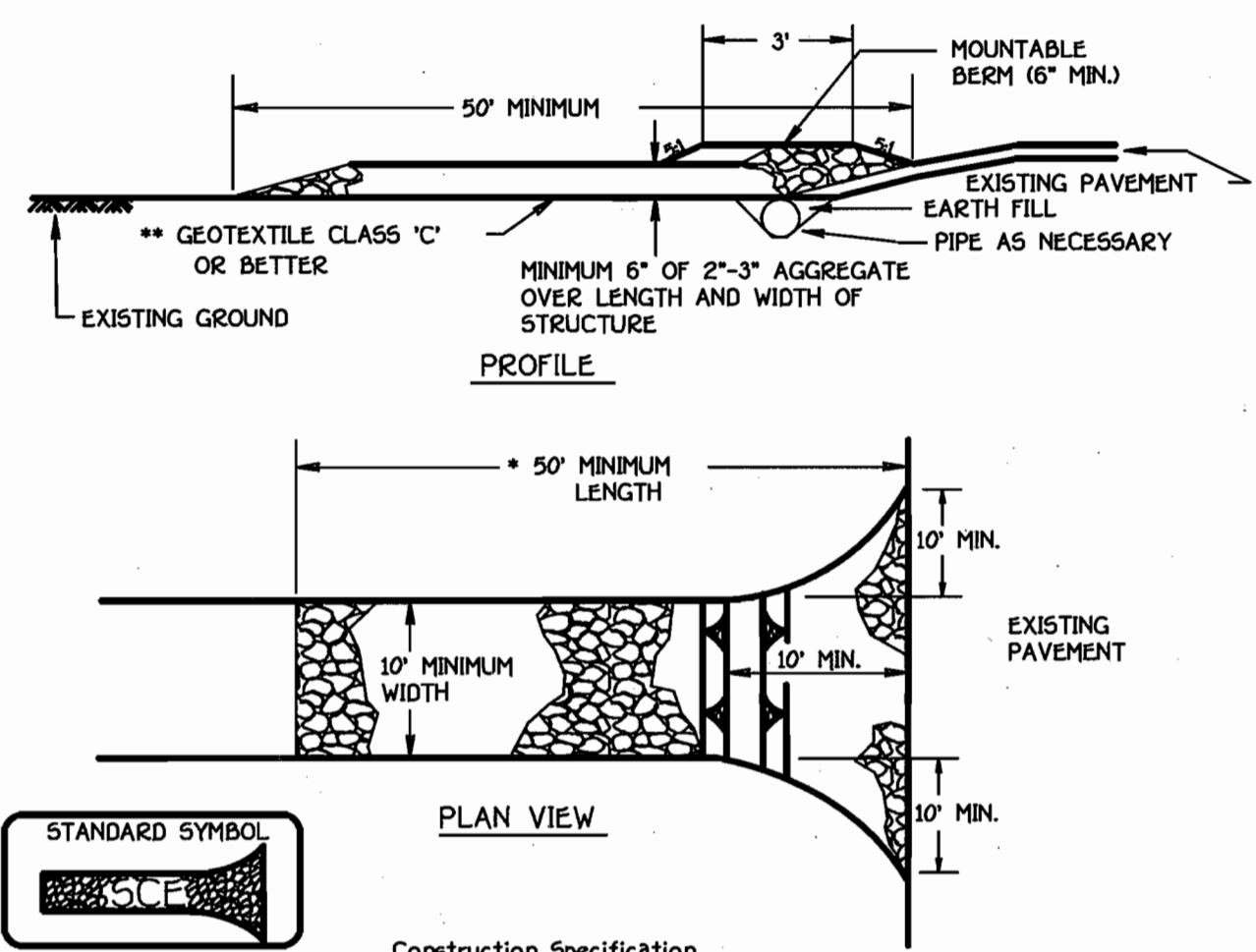


STRAW BALE DIKE

Construction Specifications

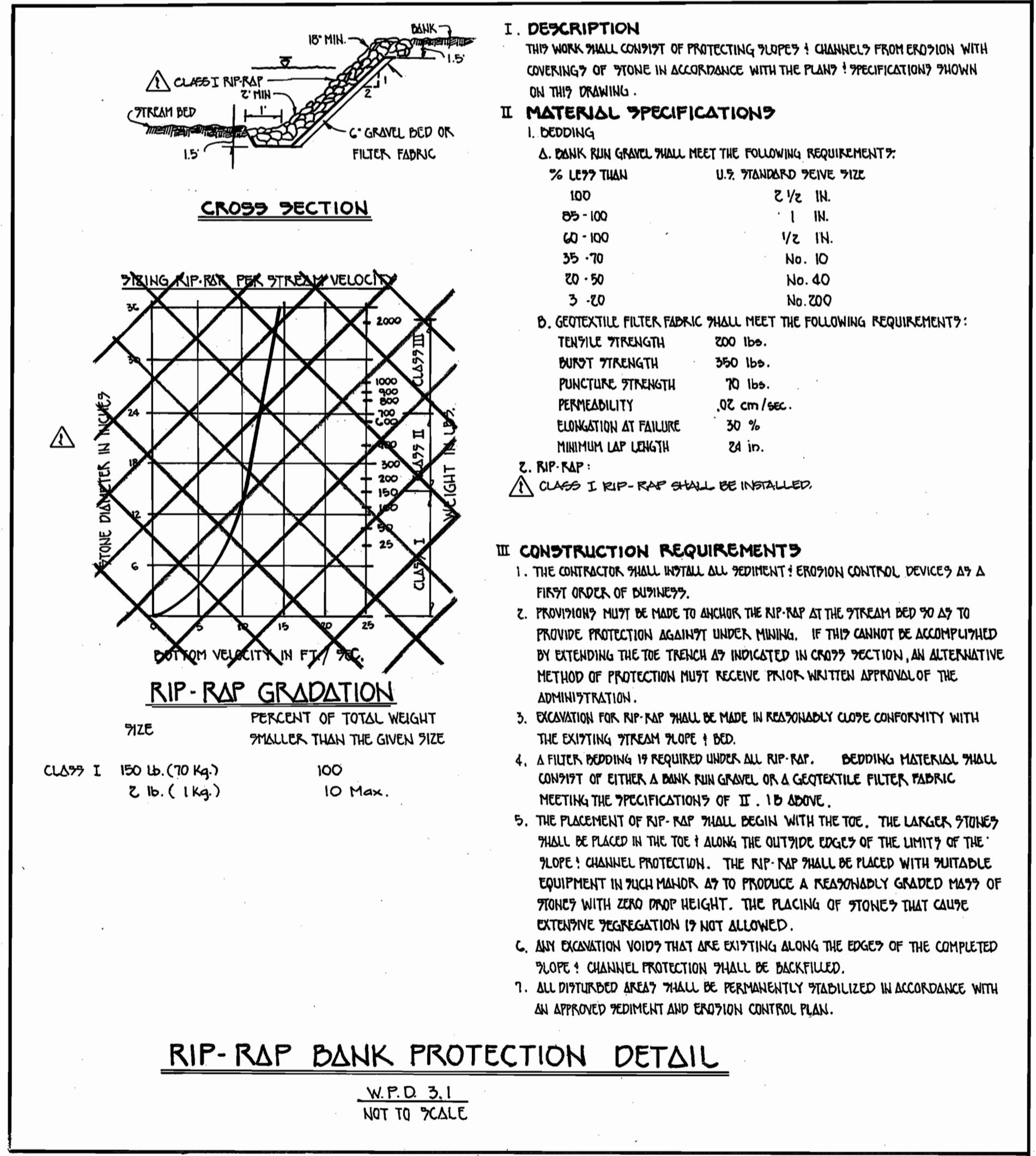
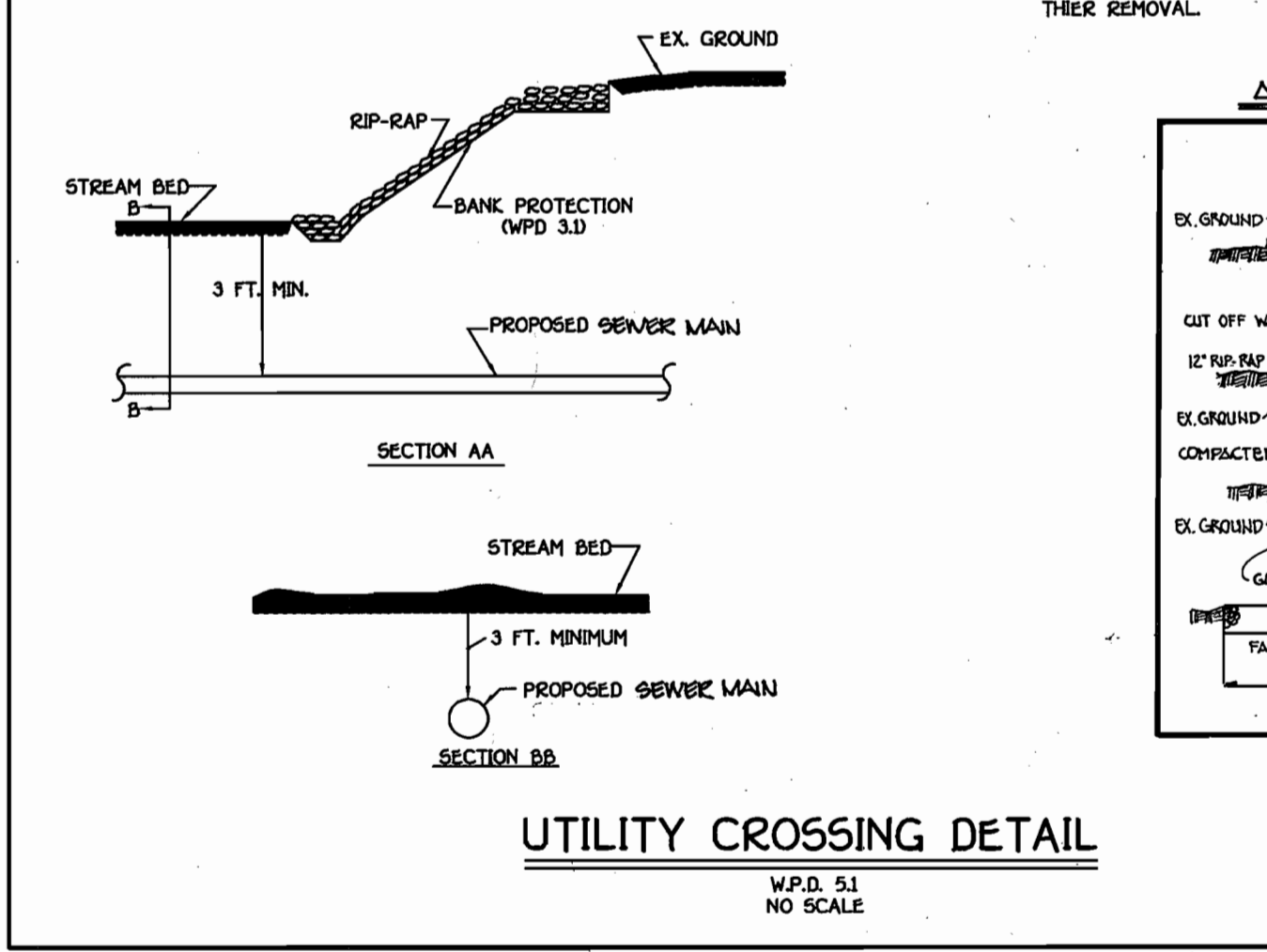
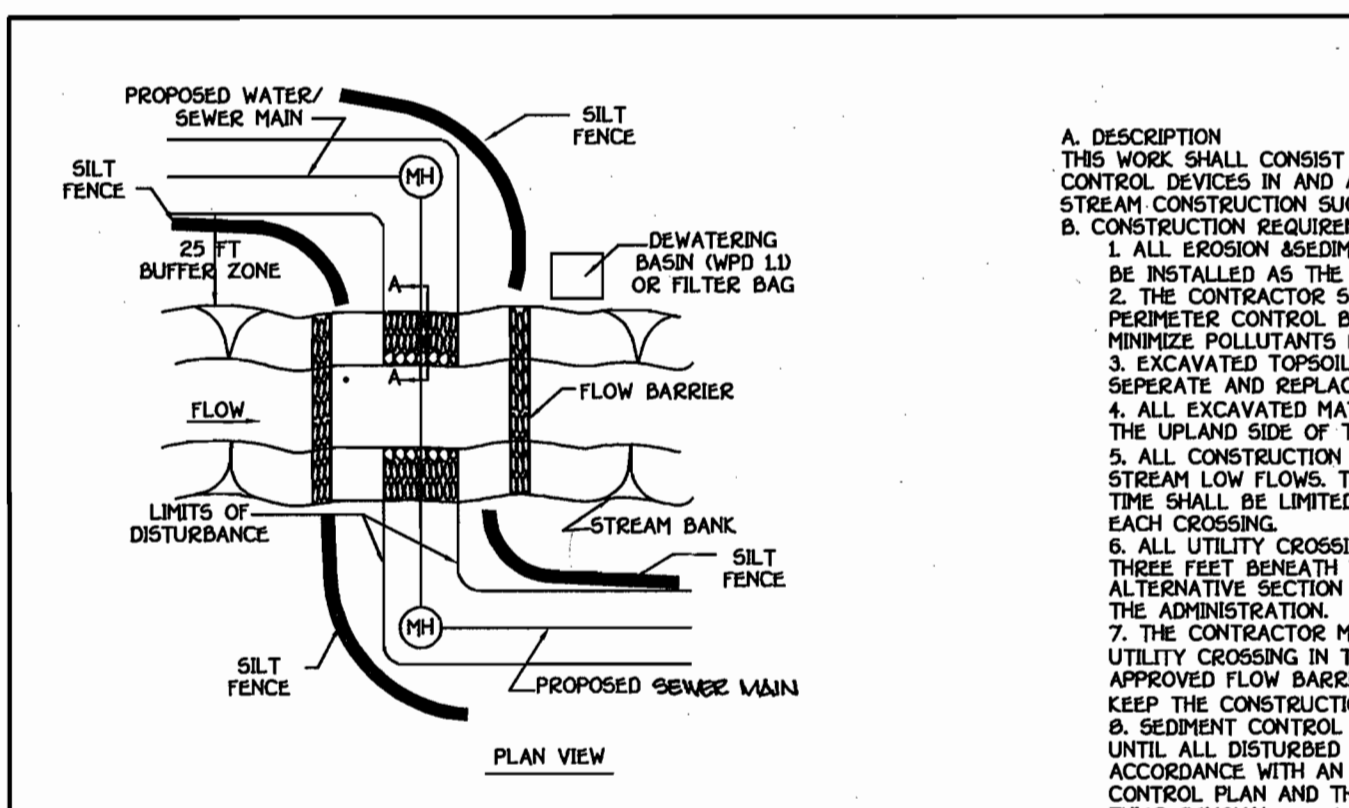
- Bales shall be placed at the toe of a slope, on the contour, and in a row with the ends of each bale tightly abutting the adjacent bales.
- Each bale shall be entrenched in the soil a minimum of 4" and placed so the bindings are horizontal.
- Bales shall be securely anchored in place by either two stakes or re-bars driven through the bale 12" to 18" into the ground. The first stake in each bale shall be driven toward the previously laid bale at an angle to force the bales together. Stakes shall be driven flush with the top of the bale.
- Straw bale dikes shall be inspected frequently and after each rain event and maintenance performed as necessary.
- All bales shall be removed when the site has been stabilized. The trench where the bales were located shall be graded flush and stabilized.

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



STABILIZED CONSTRUCTION ENTRANCE

- Length - minimum of 50' (*30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- 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.
- 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 entrance.
- 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.



DEVELOPER'S CERTIFICATION

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PRECISE ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Paul W. Koebel FOR: Waverly Woods Development Corp. 09-05-02

ENGINEER'S CERTIFICATION

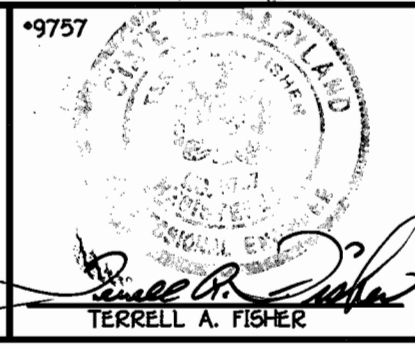
I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Paul W. Koebel 09/05/02

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS



DESIGNED BY:	M.J.M.
DRAWN BY:	L.A.
CHECKED BY:	M.J.M.
DATE:	9/4/03
PROJECT NO.:	2002
REVISION:	REVISED RIP-RAP BANK PROTECTION DETAIL

NOTES AND DETAILS
600' SCALE MAP NO. 36 BLOCK NO. 5 and 6
F.C.C. WORK ORDER NO. 528
FILE NAME: G:\Drawings\528\notesandDetails.dwg

DYMEK PROPERTY SEWER MAIN OUTFALL
CONTRACT NO. 20-3673-D
THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE AS SHOWN
SHEET 5 of 5

CONTRACT NO. 20-3673-D
DYMEK PROPERTY SEWER MAIN OUTFALL
HOWARD COUNTY, MARYLAND