

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING WOODS LINE
- EXISTING MACADAM DRIVE
- PROPOSED ACCESS ROAD
- EXISTING FOREST PROTECTION FENCE
- WETLAND BUFFER
- WETLAND
- STREAM BUFFER
- LIMIT OF DISTURBANCE
- SUPER SILT FENCE
- CLEAN WATER DIVERSION DIKE
- STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED TREE PROTECTION FENCE
- PROPOSED WOODS LINE
- PROPOSED GUARDRAIL

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.
Jim Meyer 6/28/06
 Date
 This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
John R. Kuntz 6/28/06
 Date
 Howard SCD

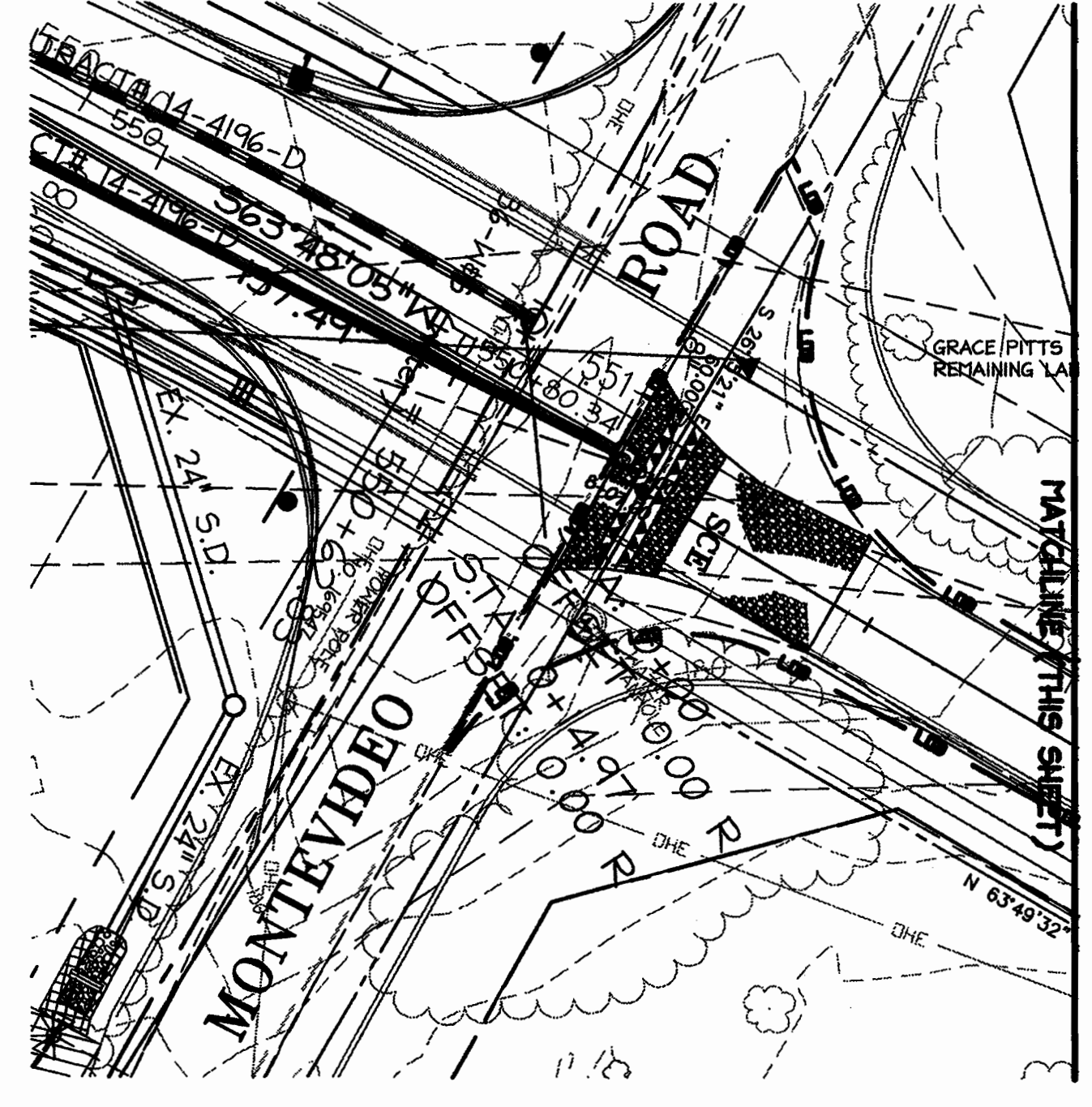
ENGINEER'S CERTIFICATE
 I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
John R. Kuntz 6-6-06
 Signature of Engineer (print name below signature) Date
 JOHN ROUSEHOLDOR

DEVELOPER'S CERTIFICATE
 I/We certify that all development and construction will be done according to this plan for sediment and erosion 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.
Mark S. Caprell 6-9-06
 Signature of Developer (print name below signature) Date
 MARK S. CAPELL, CIVIL ENGINEER
 TRAMMELL CROW COMPANY

SEQUENCE OF CONSTRUCTION

- NOTE: NO SEDIMENT CONTROL FEATURES MAY BE REMOVED WITHOUT PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR. THE CONTRACTOR, WELL IN ADVANCE OF CONSTRUCTION, SHALL COORDINATE RELOCATION OF EXISTING UTILITIES.
1. OBTAIN GRADING PERMIT FROM HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSES AND PERMITS DIVISION. (1 DAY)
 2. ARRANGE AN ON-SITE PRE-CONSTRUCTION MEETING WITH THE SEDIMENT CONTROL INSPECTOR. (1 DAY)
 3. THE LIMITS OF DISTURBANCE MUST BE FIELD MARKED PRIOR TO CLEARING OF THE TREES, INSTALLATION OF SEDIMENT CONTROL MEASURES, CONSTRUCTION OR OTHER LAND DISTURBING ACTIVITIES. (1 DAY)
 4. PERFORM NECESSARY CLEARING AND GRUBBING TO INSTALL STABILIZED CONSTRUCTION ENTRANCE AND SUPER SILT FENCE. (1 DAY)
 5. INSTALL CLEAN WATER DIVERSION DIKES TO THE EAST (DIVERSION DIKE #2) AND SOUTH (DIVERSION DIKE #1) OF THE PROPOSED CULVERT TO CONSTRUCT ROADWAY FROM STA. 0+00 TO 0+44 AND CULVERT. EXTEND DIKES TO OUTFALL TO STABILIZED GROUND AS NECESSARY. (7 DAYS)
 6. EXCAVATE THE OUTFALL AREA FROM THE EXISTING SWM POND AREA AND INSTALL CULVERT. (4 DAYS)
 7. ONCE CULVERT AND THE SECTION OF ROAD/FILL NEEDED TO INSTALL THE CULVERT HAVE BEEN STABILIZED, AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, INSTALL CLEAN WATER DIVERSION DIKE #3 TO THE EAST OF PROPOSED ROADWAY AND SUPER SILT FENCE WEST OF THE PROPOSED BIORETENTION AREA. (4 DAYS)
 8. REMOVE CLEAN WATER DIVERSION DIKES #1 AND #2 TO THE EAST AND SOUTH OF THE CULVERT. (2 DAYS)
 9. REMOVE EXISTING PAVEMENT AND CONSTRUCT BIORETENTION AREA TAKING CARE TO ENSURE POSITIVE FLOW FROM THE ROADWAY TO THIS AREA AT ALL TIMES. (8 DAYS)
 10. CONSTRUCT ROADWAY FROM STA 0+44 TO 2+18 AND INSTALL GRASS CHANNEL WEST OF ROADWAY. (14 DAYS)
 11. BASEPAVE ENTIRE ROADWAY MAKING SURE TO MAINTAIN ACCESS TO ENTRANCES AT ALL TIMES AND DISTURB ONLY AREAS WHICH CAN BE STABILIZED IN THE SAME DAY. (2 DAYS)
 12. IMMEDIATELY STABILIZE CONSTRUCTION AREA UPON COMPLETION OF WORK. (1 DAY)
 13. WITH PERMISSION OF THE INSPECTOR, REMOVE EARTH DIKES, SUPER SILT FENCE, AND DIVERSION DIKE. (3 DAYS)
 14. REMOVE STABILIZED CONSTRUCTION ENTRANCES AND BASE PAVE ANY REMAINING PAVING AREAS. SURFACE PAVE OR MILL AND OVERLAY ROADWAY. (5 DAYS)
- 70 DAYS / 10 WEEKS

INTERSECTION VIEW
 SCALE: 1"=30'



PLAN VIEW
 SCALE: 1"=30'

APPROVED: DEPARTMENT OF PLANNING AND ZONING
John Rouseholdor 7/2/06
 Chief, Development Engineering Division Date
Andy Martin 7/2/06
 Chief, Division of Land Development Date
John Rouseholdor 5/1/06
 Director (C.E.T. No.) Date

Date No. Revision Description
PARCEL 3 ACCESS
 AT DORSEY RUN INDUSTRIAL CENTER AND
 60-FT RIGHT OF WAY FROM MONTEVIDEO ROAD
OWNER / DEVELOPER

MONTEVIDEO SOUTH BUSINESS TRUST 7315 WISCONSIN AVENUE SUITE 300 W
 C/O TRAMMELL CROW COMPANY BETHESDA, MARYLAND 20814
 TEL. (301) 530-8200 FAX (301) 530-6131



TITLE:
 PARCEL 3 L: 6457 P: 258 TAX MAP 43 TM P/O PARCEL 572, 3 OF 3 GRID 16
 1ST ELECTION DISTRICT, HOWARD COUNTY, MD
EROSION SEDIMENT & CONTROL PLAN

DESIGN: JBA SCALE: 1"=30' PROJECT: 036701.08
 DRAWN: ADL DATE: 3-31-05
 CHECKED: JMH APPROVED: 2 of 11

20.0 STANDARDS AND SPECIFICATIONS FOR LAND GRADING

DEFINITIONS
RESHAPING OF THE EXISTING LAND SURFACE IN ACCORDANCE WITH A PLAN AS DETERMINED BY ENGINEERING SURVEY AND LAYOUT.

PURPOSE
THE PURPOSE OF A LAND GRADING SPECIFICATION IS TO PROVIDE FOR EROSION CONTROL AND VEGETATIVE ESTABLISHMENT ON THOSE AREAS WHERE THE EXISTING LAND SURFACE IS TO BE RESHAPED BY GRADING ACCORDING TO PLAN.

DESIGN CRITERIA
THE GRADING PLAN SHOULD BE BASED UPON THE INCORPORATION OF BUILDING DESIGNS AND STREET LAYOUTS THAT FIT AND UTILIZE EXISTING TOPOGRAPHY AND DESIRABLE NATURAL SURROUNDING TO AVOID EXTREME GRADE MODIFICATIONS.

MANY COUNTRIES HAVE REGULATIONS AND DESIGN PROCEDURES ALREADY ESTABLISHED FOR LAND GRADING AND CUT AND FILL SLOPES. WHERE THESE REQUIREMENTS EXIST, THEY SHOULD BE FOLLOWED.

1. PROVISIONS SHALL BE MADE TO SAFETY CONDUCT SURFACE RUNOFF TO STORM DRAINS, PROTECTED OUTLETS OR TO STABLE WATER COURSES TO INSURE THAT SURFACE RUNOFF WILL NOT DAMAGE SLOPES OR OTHER GRADED AREAS.

2. CUT AND FILL SLOPES THAT ARE TO BE STABILIZED WITH GRASSES SHALL NOT BE STEEPER THAN 2:1 (WHERE THE SLOPE IS TO BE MOVED THE SLOPE SHOULD BE NO STEEPER THAN 3:1) 4:1 IS PREFERRED BECAUSE OF SAFETY FACTORS RELATED TO MOVING STEEP SLOPES.

3. REVERSE BENCHES SHALL BE PROVIDED WHENEVER THE VERTICAL INTERVAL (HEIGHT) OF ANY 2:1 SLOPE EXCEEDS 20 FEET; FOR 3:1 SLOPES IT SHALL BE INCREASED TO 30 FEET AND FOR 4:1 TO 40 FEET. BENCHES SHALL BE LOCATED TO DIVIDE THE SLOPES FACE AS EQUALLY AS POSSIBLE AND SHALL CONVEY THE WATER TO A STABLE OUTLET. SOILS, SEEPS, ROCK OUTCROPS, ETC., SHALL ALSO BE TAKEN INTO CONSIDERATION WHEN DESIGNING BENCHES.

A. BENCHES SHALL BE A MINIMUM OF SIX-FEET WIDE TO PROVIDE EASE OF MAINTENANCE.

B. BENCHES SHALL BE DESIGNED WITH A REVERSE SLOPE OF 6:1 OF FLATTER TO THE TOE OF THE UPPER SLOPE AND WITH A MINIMUM OF ONE FOOT IN DEPTH. BENCH GRADIENT TO THE OUTLET SHALL BE BETWEEN 2 PERCENT AND 3 PERCENT, UNLESS ACCOMPANIED BY APPROPRIATE DESIGN AND COMPUTATIONS.

C. THE FLOW LENGTH WITHIN A BENCH SHALL NOT EXCEED 800' UNLESS ACCOMPANIED BY APPROPRIATE DESIGN AND COMPUTATIONS. FOR FLOW CHANNEL STABILIZATION SEE TEMPORARY SHALES.

4. SURFACE WATER SHALL BE DIVERTED FROM THE FACE OF ALL CUT AND/OR FILL SLOPES BY THE USE OF EARTH DIKES, DITCHES AND SHALES OR CONVEYED DOWNSLOPE BY THE USE OF A DESIGNATED STRUCTURE, EXCEPT WHERE:

A. THE FACE OF THE SLOPE IS OR SHALL BE STABILIZED AND THE FACE OF ALL GRADED SLOPES SHALL BE PROTECTED FOR SURFACE RUNOFF UNTIL THEY ARE STABILIZED.

B. THE FACE OF THE SLOPE SHALL NOT BE SUBJECTED TO ANY CONCENTRATED SLOWS OF SURFACE WATER SUCH AS FROM NATURAL DRAINWAYS, GRADED SHALES, DOWNPOUNTS, ETC.

C. THE FACE OF THE SLOPE WILL BE PROTECTED BY SPECIAL EROSION CONTROL MATERIALS, TO INCLUDE, BUT NOT LIMITED TO, APPROVED VEGETATIVE STABILIZATION PRACTICES (SEE SECTION 6), RIP-RAP OR OTHER APPROVED STABILIZATION METHODS.

5. CUT SLOPES OCCURRING IN RIPABLE ROCK SHALL BE SERRATED AS SHOWN ON THE FOLLOWING DIAGRAM. THESE SERRATIONS SHALL BE MADE WITH CONVENTIONAL EQUIPMENT AS THE EXCAVATION IS MADE. EACH STEP OR SERRATION SHALL BE CONSTRUCTED ON THE CONTOUR AND WILL HAVE STEPS CUT AS NOMINAL TWO-FOOT INTERVALS WITH NOMINAL THREE-FOOT HORIZONTAL SHELVES. THESE STEPS WILL VARY DEPENDING ON THE SLOPE RATIO OR THE CUT SLOPE. THE NOMINAL SLOPE LINE IS 1:1. THESE STEPS WILL WEATHER AND ACT TO HOLD MOISTURE, LIFE, FERTILIZER AND SEED THIS PRODUCING A MUCH QUICKER AND LONGER LIVED VEGETATIVE COVER AND BETTER SLOPE STABILIZATION. OVER LAND FLOW SHALL BE DIVERTED FROM THE TOP OF ALL SERRATED CUT SLOPES AND CARRIED TO A SUITABLE OUTLET.

6. SURFACE DRAINAGE SHALL BE PROVIDED WHERE NECESSARY TO INTERCEPT SEEPAGE THAT WOULD OTHERWISE ADVERSELY AFFECT SLOPE STABILITY OR CREATE EXCESSIVELY WET SITE CONDITIONS.

7. SLOPES SHALL NOT BE CREATED TO CLOSE TO PROPERTY LINES AS THE ENDANGER ADJOINING PROPERTIES WITHOUT ADEQUATELY PROTECTING SUCH PROPERTIES AGAINST SEDIMENT, EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED DAMAGES.

8. FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS, AND OTHER OBJECTIONABLE MATERIAL. IT SHOULD BE FREE OF STONES OVER TWO (2) INCHES IN DIAMETER WHERE COMPACTED BY HAND OR MECHANICAL TENDERS OVER EIGHT (8) INCHES IN DIAMETER WHERE COMPACTED BY ROLLERS OR OTHER EQUIPMENT. FROZEN MATERIAL SHALL NOT BE PLACED IN THE FILL NOR SHALL THE FILL MATERIAL BE PLACED ON A FROZEN FOUNDATION.

9. STOCKPILES, BORROW AREAS AND SOIL SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECTED TO THE PROVISIONS OF THE STANDARD AND SPECIFICATIONS.

ALL DISTURBED AREAS SHALL BE STABILIZED STRUCTURALLY OR VEGETATIVELY IN COMPLIANCE WITH 20.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION.

20.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

DEFINITIONS
PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

PURPOSE
TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOIL OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

CONDITIONS WHERE PRACTICE APPLIES
THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:

A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.

B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.

C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIALS TOXIC TO PLANT GROWTH.

D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.

FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATION, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

CONSTRUCTION AND MATERIAL SPECIFICATIONS
TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.

TOPSOIL SPECIFICATIONS -- SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:

I. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND, OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTIVE TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CONDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.

II. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERBERIDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHER AS SPECIFIED.

III. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD TO THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED IN TO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.

FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:

PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:

ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING.

A. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF TESTED SOIL DEMONSTRATES A PH OF LESS THE 6.0, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE PH TO 6.5 OR HIGHER.

B. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THEN 1.5 PERCENT BY WEIGHT.

C. TOPSOIL HAVING SOLUBLE SALT CONTENT GRATER THEN 500 PARTS PER MILLION SHALL NOT BE USED.

D. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAY MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.

PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED ON 20.0 VEGETATIVE STABILIZATION - SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

TOPSOIL APPLICATION
WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCES AND SEDIMENT TRAPS AND BASINS.

GRADES IN THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBERT 4" - 8" HIGHER IN ELEVATION.

TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" - 8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.

TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS THAT BE APPLIED AS SPECIFIED BELOW.

COMPOSTED SLUDGE MATERIALS FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

A. COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATED FROM, A PERSON OR PERSONS THAT ARE PERMITTED (AT THE TIME OF ACQUISITION OF THE COMPOST) BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UNDER COMAR 26.04.06.

B. COMPOSTED SLUDGE SHALL CONTAIN AT LEAST 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHORUS, AND 0.2 PERCENT POTASSIUM AND HAVE A PH OF 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS, THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE.

C. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.

COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT THE RATE OF 4 LB/1,000 SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE.

REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING, MD-VA, PUB #11, REVISIED EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES, COOPERATED HPTS.

30.0 DUST CONTROL

PURPOSE
TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF-SITE DAMAGE, HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.

CONDITIONS WHERE PRACTICE APPLIES
THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE IN AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.

SPECIFICATIONS
TEMPORARY METHODS

1. MULCHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE CRIMPED OR TACKED TO PREVENT BLOWING.

2. VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.

3. TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12' APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

4. IRRIGATION - THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST. REPEAT AS NEEDED. AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THAT RUNOFF BEGINS TO FLOW.

5. BARRIERS - SOILD BOARD FENCES, SILT FENCES, SNOW FENCES, BURLAP FENCES, STAW BALES, AND SIMILAR MATERIALS CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING SOIL BLOWING. 6. CALCIUM CHLORIDE - APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY HELP RETREATMENT.

PERMANENT METHODS

1. PERMANENT VEGETATION - SEE STANDARDS FOR PERMANENT VEGETATIVE COVER, AND PERMANENT STABILIZATION WITH SOD. EXISTING TREES OR LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.]

2. TOPSOIL - COVERING WITH LESS EROSIIVE MATERIALS. SEE STANDARDS FOR TOPSOILING.

3. STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

REFERENCES
1. AGRICULTURE HANDBOOK 346. WIND EROSION FORCES IN THE UNITED STATE AND THEIR USE IN PREDICTING SOIL LOSS.
2. AGRICULTURE INFORMATION BULLETIN 354. HOW TO CONTROL WIND EROSION, USDA - ARS.

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/ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS/ACRE 10-10-10 FERTILIZER (4 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING APPLY 400 LBS/ACRE 30-0-0 UREA FORM FERTILIZER (1 LBS/1000 SQ. FT.)
2. ACCEPTABLE--APPLY 2 TONS/ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS/ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING -- FOR THE PERIODS MARCH 1 -- APRIL 30 AND FROM AUGUST 15 -- OCTOBER 15, SEED WITH 60 LBS/ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 -- JULY 31, SEED WITH 40 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS/ACRE (.05 LBS/1000 SQ. FT.) OF KEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 -- FEBRUARY 28, PROTECT SITE BY:
OPTION 1 - TWO TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING.
OPTION 2 - USE SOD, OPTION 3 -- SEER, WITH 60 LBS/ACRE KENTUCKY 30 TALL FESCUE AND MULCH WITH 2 TONS/ACRE HELL 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 210 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPE 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

MAINTENANCE -- INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE RE-DISTURBED 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.

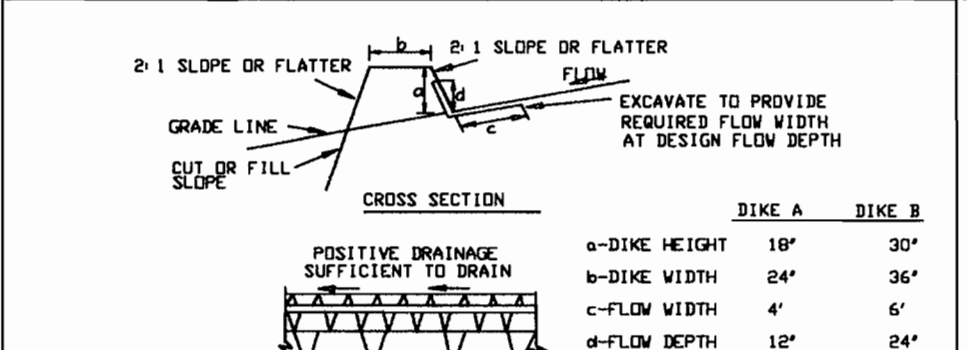
SOIL AMENDMENTS: -- APPLY 600 LBS/ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.).

SEEDING: -- FOR PERIODS MARCH 1 -- APRIL 30 AND FROM AUGUST 15 -- OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.) FOR THE PERIOD MAY 1 -- JULY 31, SEED WITH 3 LBS/ACRE OF KEEPING LOVEGRASS (0.7 LBS/1000 SQ. FT.) FOR THE PERIOD NOVEMBER 1 -- FEBRUARY 28 PROTECT THE SITE BY APPLYING 2 TONS/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/ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED NEED-FREE, SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GAL. PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPE 8 FT. OR HIGHER, USE 348 GAL. PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

DETAIL 1 - EARTH DIKE



1. Seed and cover with straw mulch.
2. Seed and cover with Erosion Control Matting or press into the soil 7" minimum.
3. 4" - 7" stone or recycled concrete equivalent lined into the soil 7" minimum.

Construction Specifications
1. All temporary earth dikes shall have uninterrupted positive grade to an on-slope may be necessary for grades less than 1:1.

2. Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.

3. Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erosive velocity.

4. All trees, brush, stumps, obstructions, and other objectional material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.

5. The dike shall be excavated on shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.

6. Fill shall be compacted by earth moving equipment.

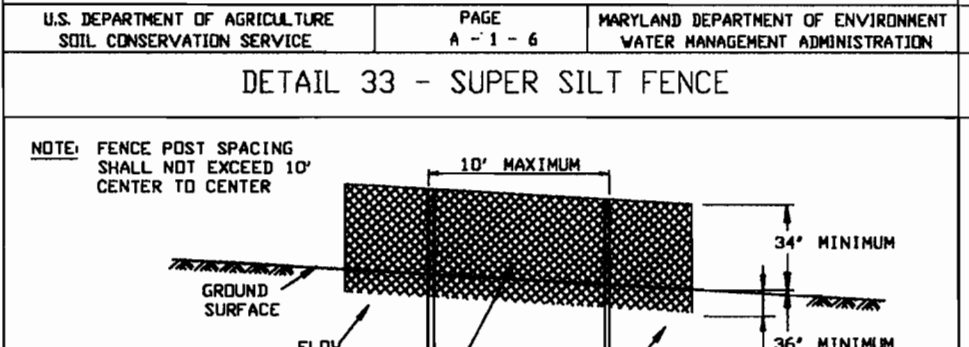
7. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.

8. Inspection and maintenance must be provided periodically and after each rain event.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE A-1-6 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 33 - SUPER SILT FENCE

NOTE: FENCE POST SPACING SHALL NOT EXCEED 10' CENTER TO CENTER.



DESIGN CRITERIA
Slope 0 - 10% Slope Steepness 0 - 10:1 Slope Length (maximum) Unlimited Silt Fence Length (maximum) Unlimited

Slope 10 - 20% Slope Steepness 10:1 - 5:1 Slope Length (maximum) 800 Feet Silt Fence Length (maximum) 1,500 Feet

Slope 20 - 30% Slope Steepness 5:1 - 3:1 Slope Length (maximum) 100 Feet Silt Fence Length (maximum) 1,000 Feet

Slope 33 - 50% Slope Steepness 3:1 - 2:1 Slope Length (maximum) 100 Feet Silt Fence Length (maximum) 500 Feet

Slope 50% + Slope Steepness 2:1 + Slope Length (maximum) 50 Feet Silt Fence Length (maximum) 250 Feet

Construction Specifications
1. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details For Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.

2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.

3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.

4. Filter cloth shall be embedded a minimum of 6" into the ground.

5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.

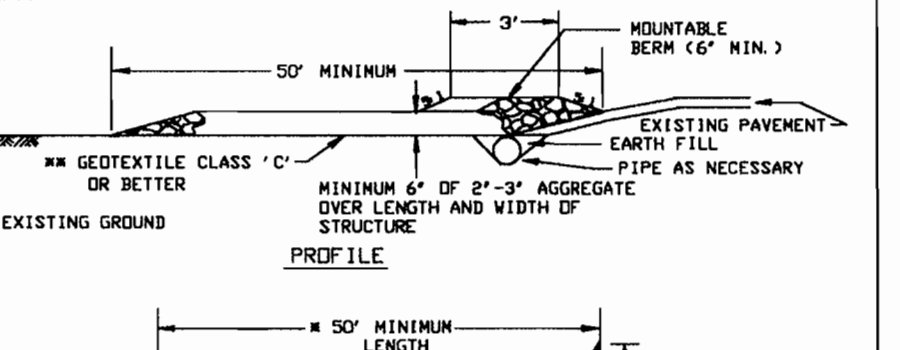
6. Maintenance shall be performed as needed and silt buildups removed when 'bulges' develop in the silt fence, or when silt reaches 50% of fence height.

7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

Tensile Strength 50 lbs/in (min.) Test MSMT 509
Tensile Modulus 50 lbs/in (min.) Test MSMT 509
Flow Rate 0.3 gal/ft/minute (max.) Test MSMT 322
Filtering Efficiency 75% (min.) Test MSMT 322

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE H-96-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



Construction Specification
1. Length - minimum of 50' (+30' for single residence lot).

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. Write 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 entrance.

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 3:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. Write plan approval authority may not require single family residences 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.

6. 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.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE F-17-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS. Date 9/13/06

Jim Meyer, SOA-Natural Resource Conservation Service, Date 7/23/06

This development plan is approved for soil erosion and sediment control by The HOWARD SOIL CONSERVATION DISTRICT. Date 7/23/06

ENGINEER'S CERTIFICATE
I 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. Date 6-6-06

Signature of Engineer (print name below signature) Date 6-6-06

DEVELOPER'S CERTIFICATE
I/We certify that all development and construction will be done according to this plan for sediment and erosion 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. Date 6-9-06

Signature of Developer (print name below signature) Date 6-9-06

Mark E. Colman, SVP TRAMMELL CROW COMPANY

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE F-17-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DESIGN CRITERIA
Slope 0 - 10% Slope Steepness 0 - 10:1 Slope Length (maximum) Unlimited Silt Fence Length (maximum) Unlimited

Slope 10 - 20% Slope Steepness 10:1 - 5:1 Slope Length (maximum) 800 Feet Silt Fence Length (maximum) 1,500 Feet

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Slope 50% + Slope Steepness 2:1 + Slope Length (maximum) 50 Feet Silt Fence Length (maximum) 250 Feet

Construction Specifications
1. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details For Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.

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4. Filter cloth shall be embedded a minimum of 6" into the ground.

5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.

6. Maintenance shall be performed as needed and silt buildups removed when 'bulges' develop in the silt fence, or when silt reaches 50% of fence height.

7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

Tensile Strength 50 lbs/in (min.) Test MSMT 509
Tensile Modulus 50 lbs/in (min.) Test MSMT 509
Flow Rate 0.3 gal/ft/minute (max.) Test MSMT 322
Filtering Efficiency 75% (min.) Test MSMT 3

Type	Name	Group	Description
BcC3	Beltsville	C	Loam, 5 to 10 % Slopes, severely eroded
CmB2	Chillum	B	Silt Loam, 1 to 5 % Slopes, moderately eroded
EvB	Evesboro	A	Loamy Sand, 1 to 5 percent slopes
EvC	Evesboro	A	Loamy Sand, 5 to 15 percent slopes
Ha	Hatboro	D	Silt Loam, 0 to 2 % Slopes
lvB	Iuka	C	Loam, 1 to 5 % Slopes
SIC2	Sassafras	B	Loam, 5% to 10% Slopes, moderately eroded
LI	Leonardtown	D	Silt Loam

LEGEND	
	OVERALL DRAINAGE DIVIDE
	POND DRAINAGE DIVIDE
	TC PATH
	SOILS LINE
	PROPOSED WOODS LINE

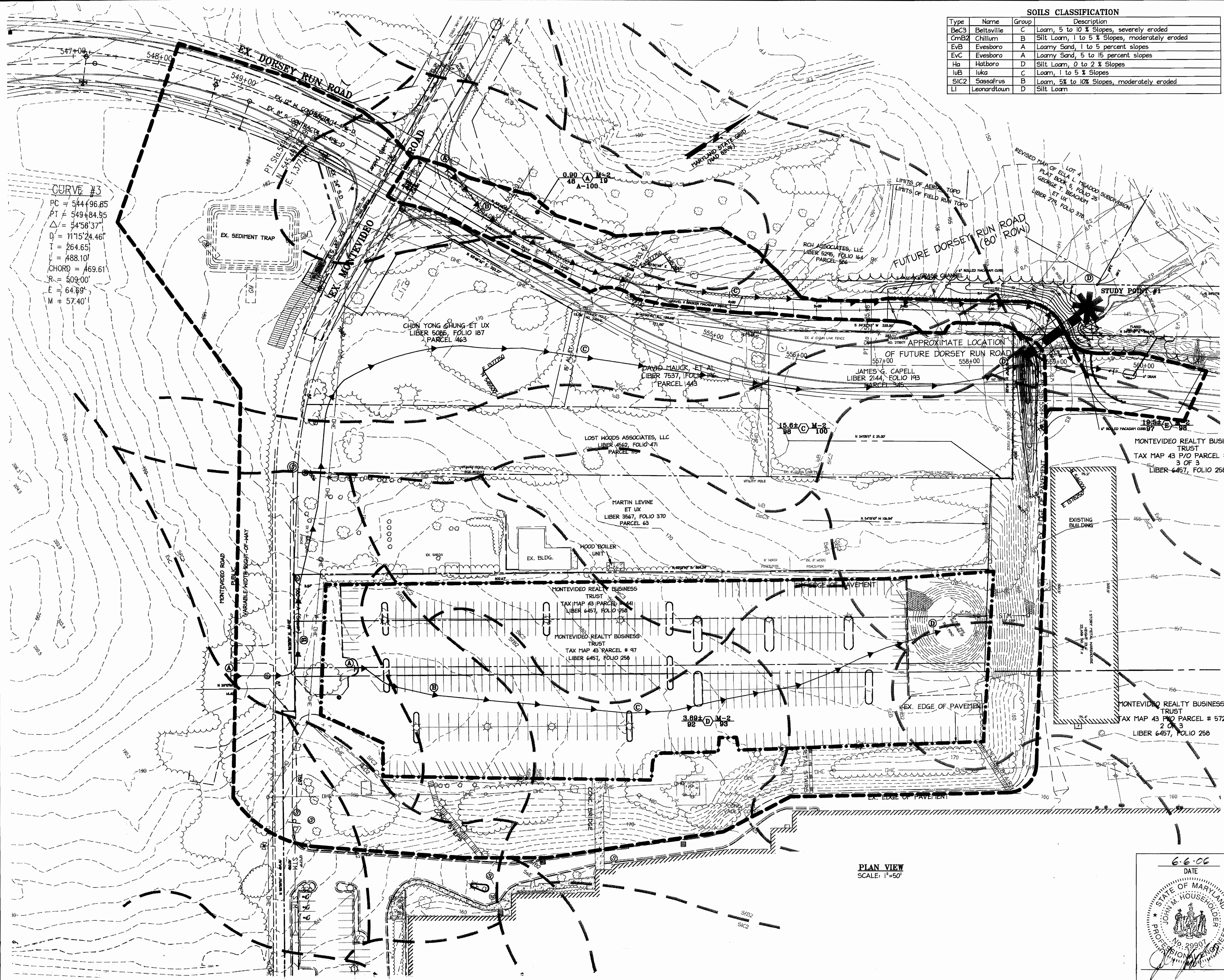
CURVE #3
 PC = 544+96.85
 PT = 549+84.95
 $\Delta = 34^{\circ}56'37''$
 $D = 1115'24.46'$
 $I = 264.65'$
 $L = 488.10'$
 CHORD = 469.61'
 $R = 509.00'$
 $E = 64.69'$
 $M = 57.40'$

TIME OF CONCENTRATION PATH

A-B SHEET FLOW

B-C SHALLOW CONCENTRATED

C-D OPEN CHANNEL



APPROVED - DEPARTMENT OF PLANNING AND ZONING

John Hamilton Chief, Development Engineering Division 7/27/06
John Hamilton Chief, Division of Land Development 7/31/06
Steve Walker Director (ACTING) 8/1/06

Date No. Revision Description

PARCEL 3 ACCESS
AT DORSEY RUN INDUSTRIAL CENTER AND
60-FT RIGHT OF WAY FROM MONTEVIDEO ROAD
OWNER / DEVELOPER

MONTEVIDEO SOUTH BUSINESS TRUST
 C/O TRAMMELL CROW COMPANY

7315 WISCONSIN AVENUE SUITE 300 W
 BETHESDA, MARYLAND 20814
 TEL. (301) 530-6200 FAX (301) 530-6131

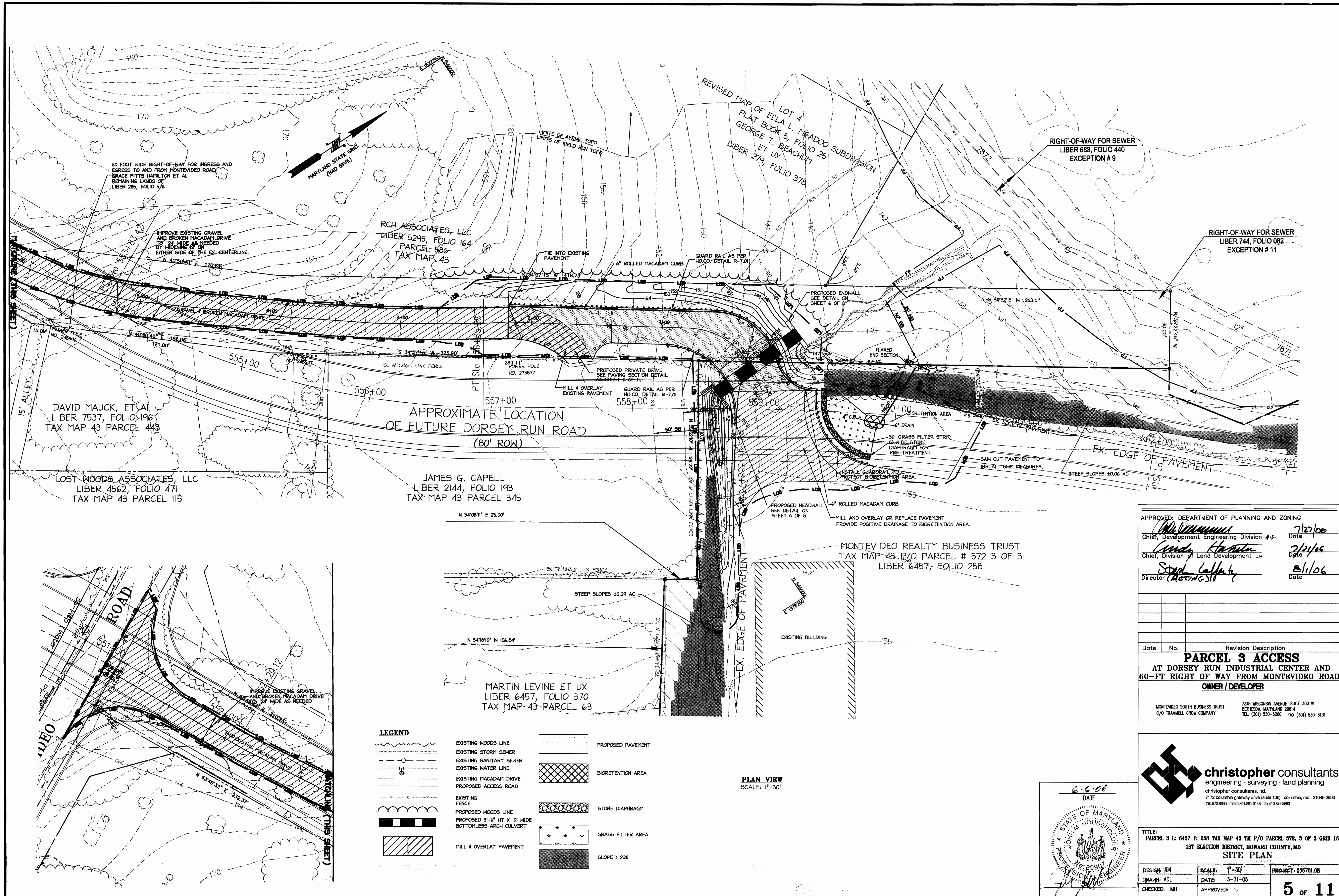


6-6-06
 DATE

STATE OF MARYLAND
 JOHN W. HOUSEHOLDER, JR.
 No. 29901
 PROFESSIONAL ENGINEER

TITLE: PARCEL 3 L: 6457 F: 258 TAX MAP 43 TM P/O PARCEL 572, 3 OF 3 GRID 18
 1ST ELECTION DISTRICT, HOWARD COUNTY, MD
SWM DRAINAGE AREA MAP

DESIGN: JH4 SCALE: 1"=50' PROJECT: Q36701.08
 DRAWN: ADL DATE: 3-31-06
 CHECKED: JMH APPROVED: **4 of 11**



APPROVED: DEPARTMENT OF PLANNING AND ZONING

John W. Householder Chief, Development Engineering Division 4-5 Date 7/27/06

Lynda Hamilton Chief, Division of Land Development Date 7/21/06

Stephen G. Goff Director (Acting) Date 8/1/06

Date	No.	Revision Description

PARCEL 3 ACCESS
 AT DORSEY RUN INDUSTRIAL CENTER AND
 60-FT RIGHT OF WAY FROM MONTEVIDEO ROAD
OWNER / DEVELOPER

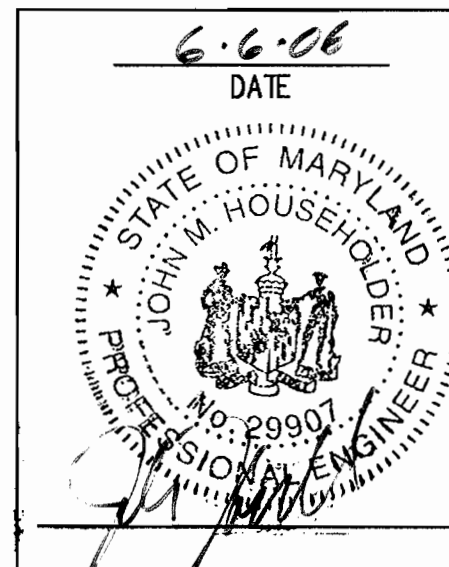
MONTEVIDEO SOUTH BUSINESS TRUST
 C/O TRAMMELL CROW COMPANY

7315 WISCONSIN AVENUE SUITE 300 W
 BETHESDA, MARYLAND 20814
 TEL. (301) 530-6200 FAX (301) 530-6131



TITLE:
 PARCEL 3 L: 6457 P: 258 TAX MAP 43 TM P/O PARCEL 572, 3 OF 3 GRID 18
 1ST ELECTION DISTRICT, HOWARD COUNTY, MD
SITE PLAN

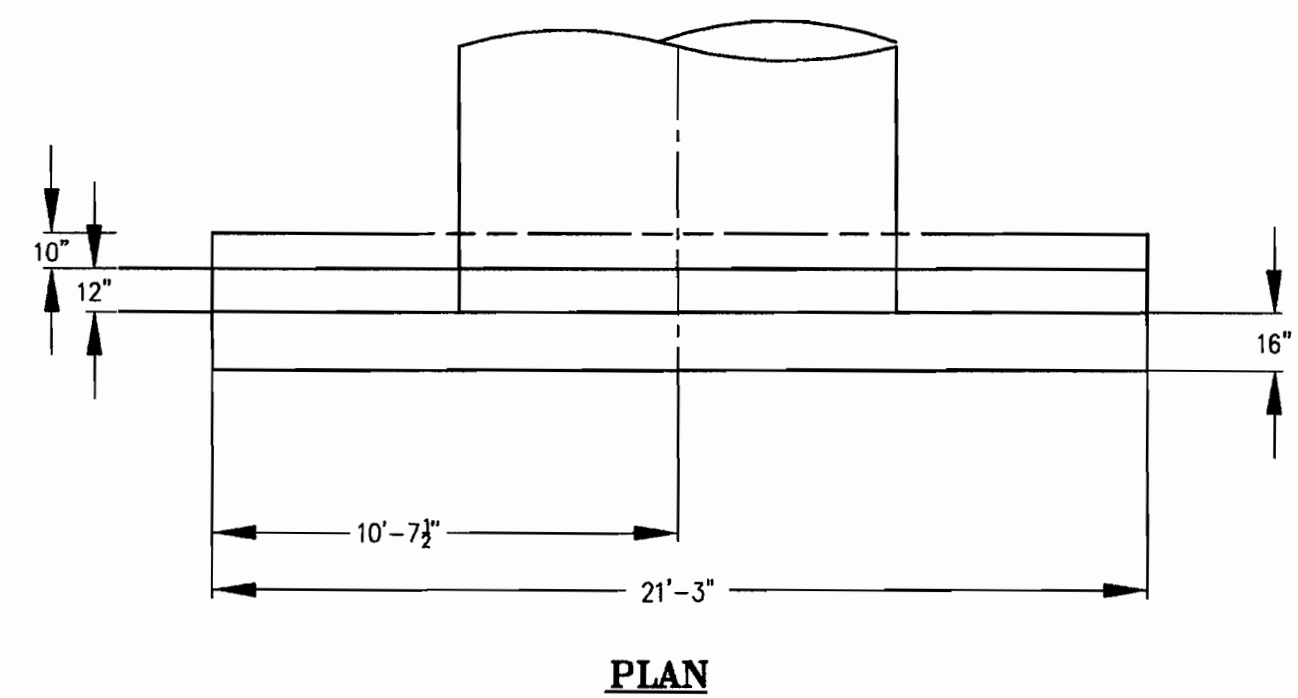
DESIGN: JH4	SCALE: 1"=30'	PROJECT: 038701.08
DRAWN: ADL	DATE: 3-31-05	
CHECKED: JMH	APPROVED:	



LEGEND

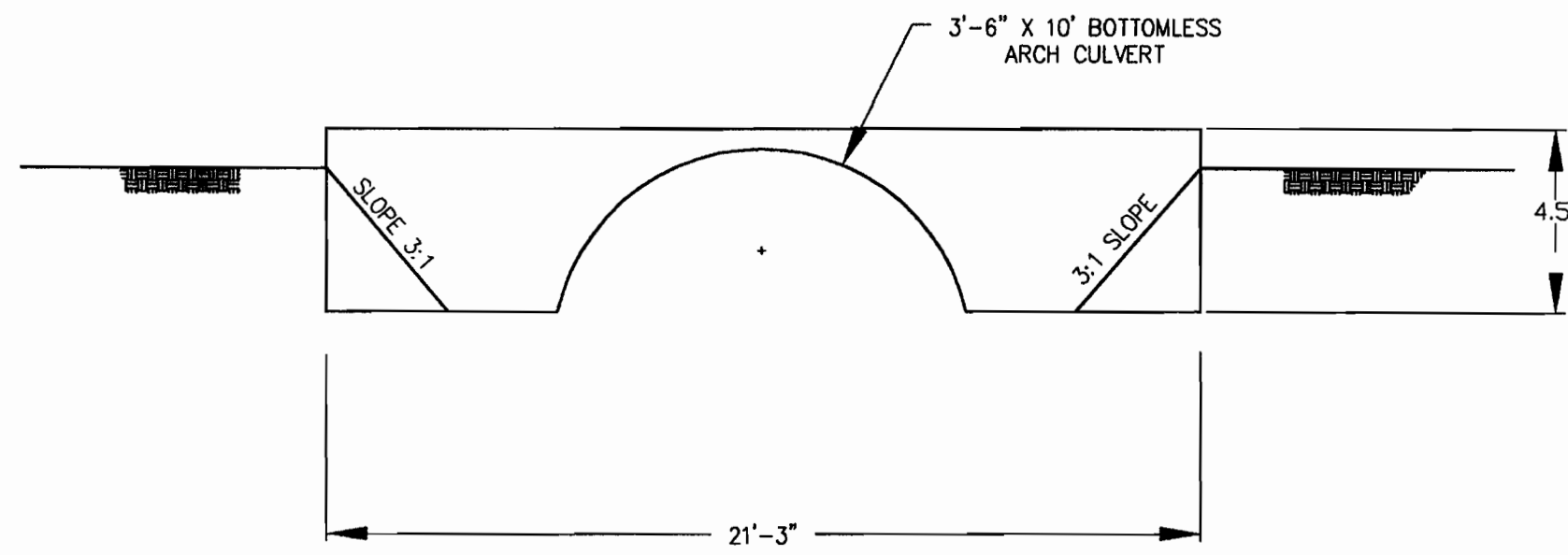
	EXISTING WOODS LINE		PROPOSED PAVEMENT
	EXISTING STORM SEWER		BIORETENTION AREA
	EXISTING SANITARY SEWER		STONE DIAPHRAGM
	EXISTING WATER LINE		GRASS FILTER AREA
	EXISTING MACADAM DRIVE		SLOPE > 25%
	PROPOSED ACCESS ROAD		
	EXISTING FENCE		
	PROPOSED WOODS LINE		
	PROPOSED 3'-6" HT X 10' WIDE BOTTOMLESS ARCH CULVERT		
	MILL & OVERLAY PAVEMENT		

PLAN VIEW
 SCALE: 1"=30'



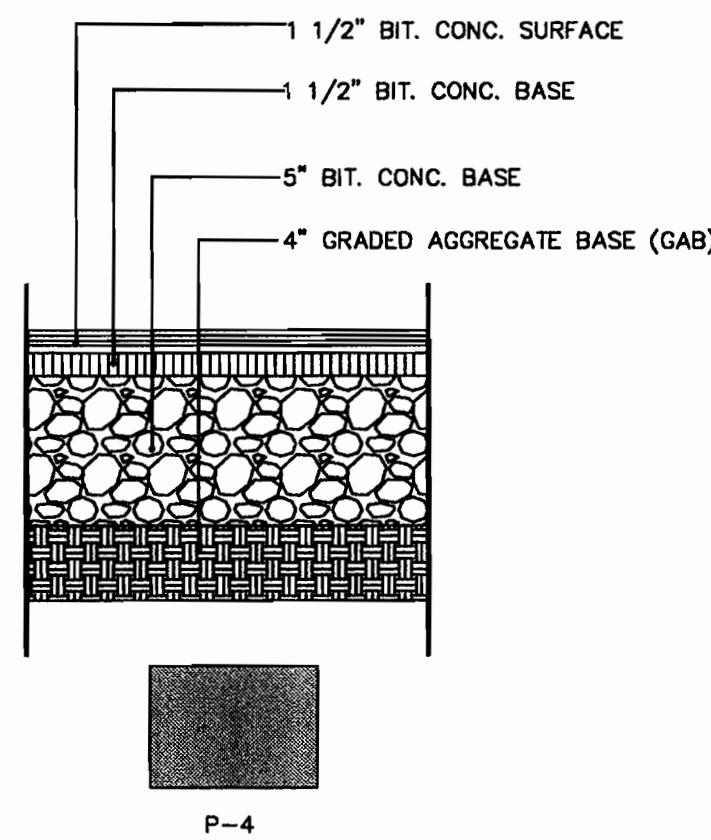
PLAN

NOTE:
CONTRACTOR TO PROVIDE SHOP
DRAWINGS FOR ENGINEERS APPROVAL
SHOWING REBAR REINFORCEMENT. SHOP
DRAWINGS TO BE PROVIDED FOR EITHER
PRE-CAST OR CAST IN PLACE
CONSTRUCTION.



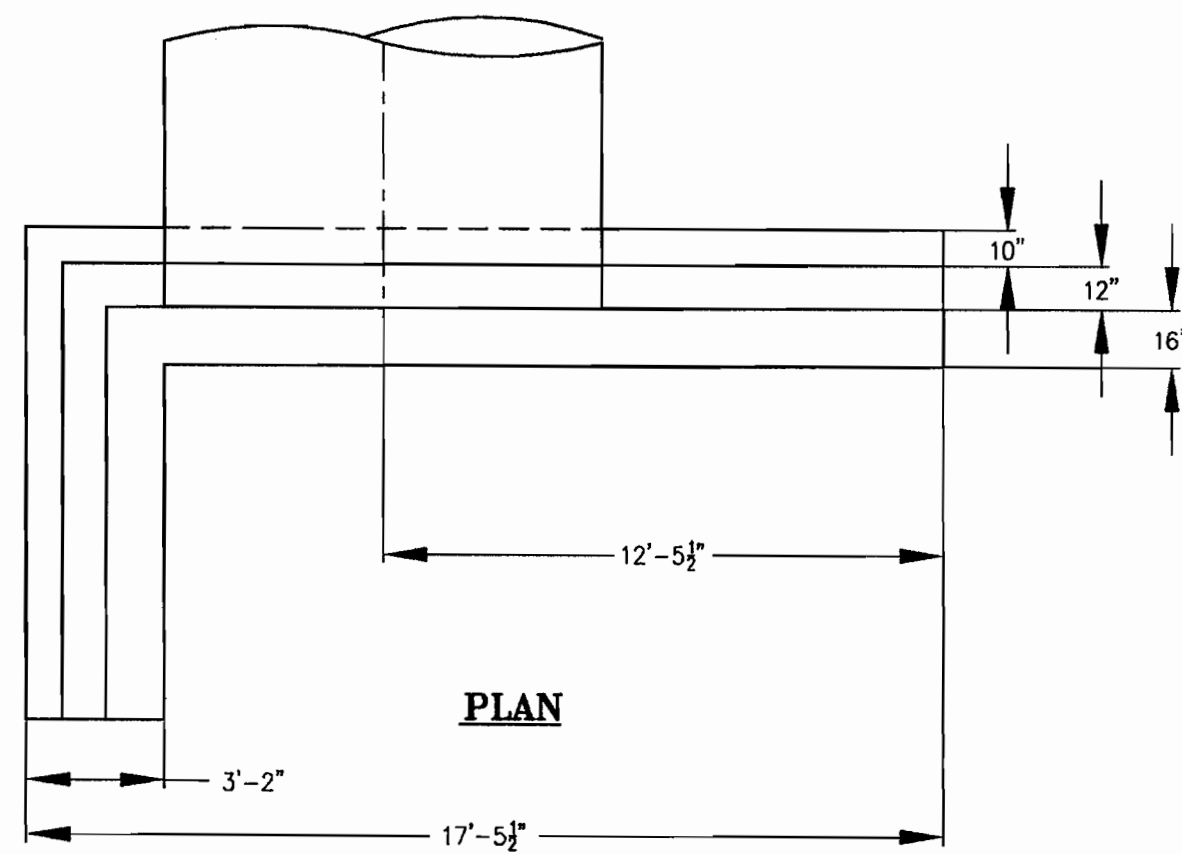
FRONT ELEVATION

ENDWALL BOTTOMLESS ARCH CULVERT
NOT TO SCALE



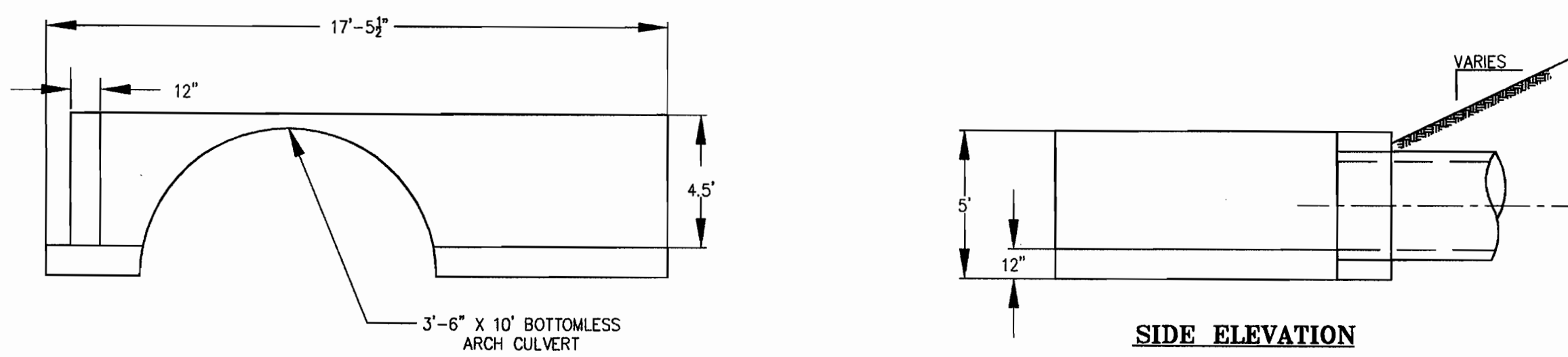
PAVEMENT SECTION
NOT TO SCALE

* BITUMINOUS CONCRETE TO BE PLACED AND COMPACTED
IN 5 INCH MAXIMUM LOOSE THICKNESS LAYERS.



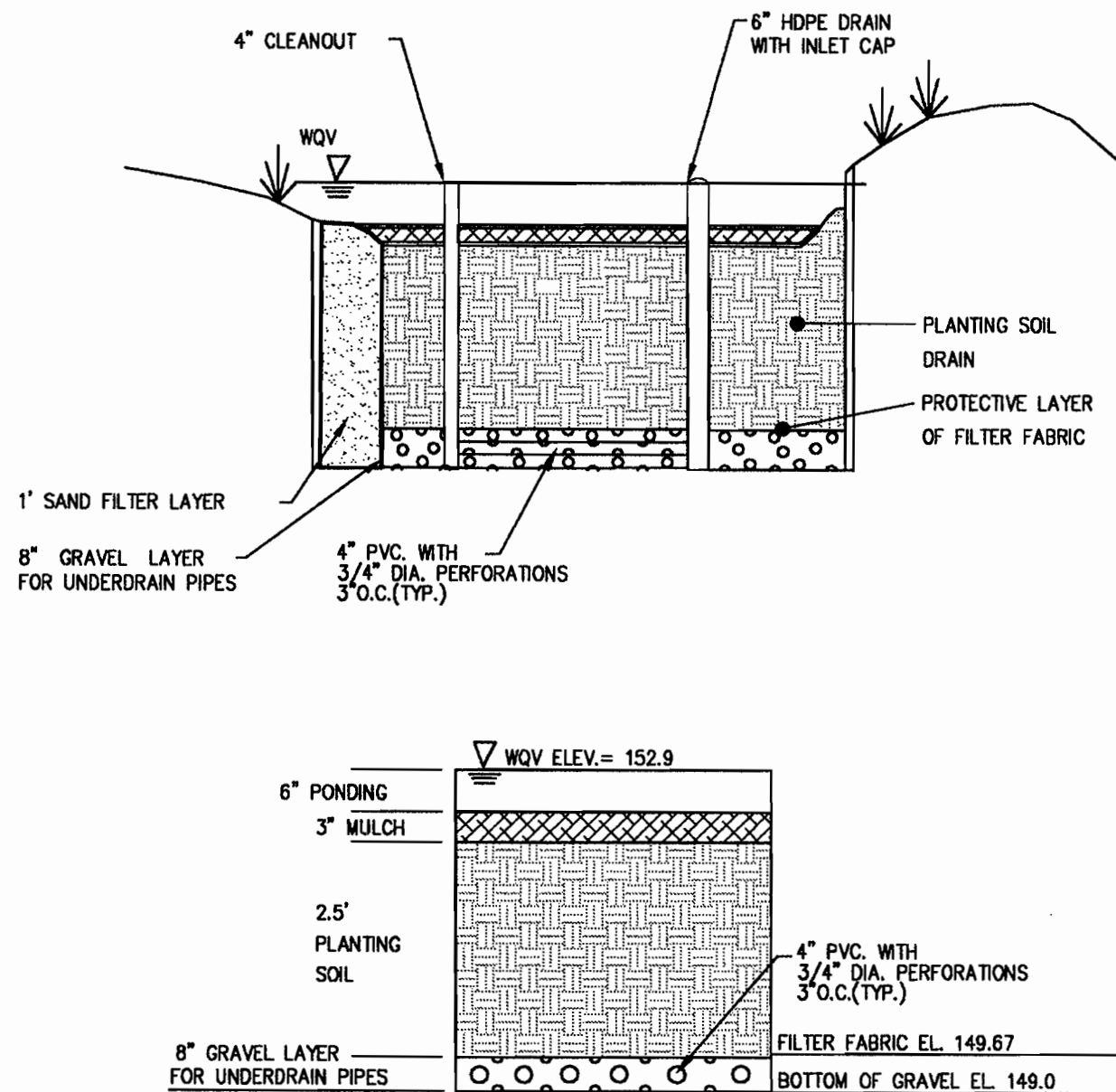
PLAN

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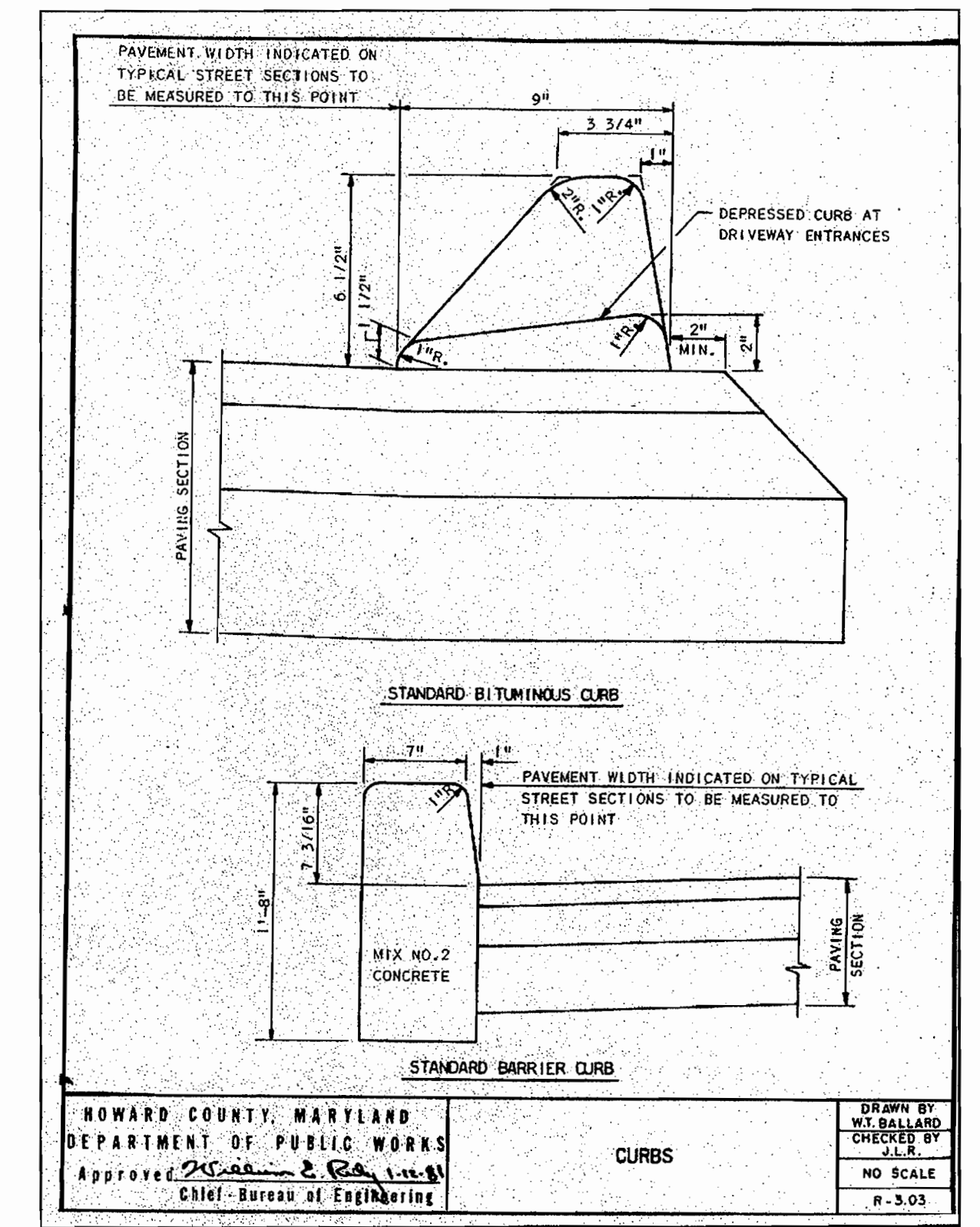
FRONT ELEVATION

HEADWALL BOTTOMLESS ARCH CULVERT
NOT TO SCALE



BIORETENTION #1
N/S

SIDE ELEVATION



HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
Approved: *[Signature]*
Chief - Bureau of Engineering

CURBS

DRAWN BY
WE BELLARD
CHECKED BY
S. L. S.
NO SCALE
P-3.03

VATC		8889 Herrmann Drive, Suite 300 Columbia, MD 21046-4710 (410) 381-0232 Fax (410) 381-0247		TEST BORING LOG																						
CLIENT	Trammell Crow Company	BORING #	ATC SB-1																							
PROJECT NAME	Baltimore Air-Cool Facility - North Parcel	JOB #	99.75277.0026																							
PROJECT LOCATION	Montevideo Road Jessup, MD	DRAWN BY	W. Tucker																							
		APPROVED BY	J. Wiebohn																							
DRILLING and SAMPLING INFORMATION																										
Date Started	10/12/2005	Hammer Wt.	-	TEST DATA																						
Date Completed	10/12/2005	Hammer Drop	-																							
Driller	C. Annew	Spout Sampler OD	-																							
Field Professional	W. Tucker	Rock Core Dia.	-																							
Boring Method	Geoprobe	Shelby Tube OD	-																							
SOIL CLASSIFICATION																										
SURFACE ELEVATION 152.5 feet msl																										
Soil Description	Depth (ft)	Soil Type	Moisture Content (%)	Liquid Limit (LL)	Plasticity Index (PI)																					
3" ASPHALT	0.0 - 1.0	1 AUGER																								
tan-brown clayey fine to medium SAND (SC), moist	1.0 - 3.0																									
brown silty fine to medium SAND (SM), moist	3.0 - 6.0	2 CT																								
gray silty fine SAND (SM) and SILT (ML), moist	6.0 - 10.0	3 CT																								
brown and tan silty fine to medium SAND (SM), wet	10.0 - 11.5	4 CT																								
	11.5 - 141.0																									
TEST BORING TERMINATED AT 16 FEET BELOW EXISTING GROUND SURFACE																										
Notes: Hand-sizer introduced to 4 feet below existing ground surface. Geoprobe slingshot conducted 4 to 16 feet below existing ground surface.																										
<table border="0"> <tr> <td>Sample Type</td> <td>Depth to Groundwater</td> <td>Boring Method</td> </tr> <tr> <td>SS - Driven Split Spoon</td> <td>● Noted on Drilling Tools</td> <td>HSA - Hollow Stem Augers</td> </tr> <tr> <td>ST - Perched Shelby Tube</td> <td>● At Completion (at Augers)</td> <td>CFA - Continuous Flight Augers</td> </tr> <tr> <td>CA - Continuous Flight Auger</td> <td>● At Completion (open hole)</td> <td>DC - Driving Casing</td> </tr> <tr> <td>RC - Rock Core</td> <td>● After 24 hours</td> <td>MD - Mud Drilling</td> </tr> <tr> <td>CU - Cuttings</td> <td>● After 24 hours</td> <td></td> </tr> <tr> <td>CT - Continuous Tube</td> <td>● Cave Depth</td> <td></td> </tr> </table>						Sample Type	Depth to Groundwater	Boring Method	SS - Driven Split Spoon	● Noted on Drilling Tools	HSA - Hollow Stem Augers	ST - Perched Shelby Tube	● At Completion (at Augers)	CFA - Continuous Flight Augers	CA - Continuous Flight Auger	● At Completion (open hole)	DC - Driving Casing	RC - Rock Core	● After 24 hours	MD - Mud Drilling	CU - Cuttings	● After 24 hours		CT - Continuous Tube	● Cave Depth	
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APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature]
Chief, Development Engineering Division
Date: 7/27/06

[Signature]
Chief, Division of Land Development
Date: 7/21/06

[Signature]
Director (ACTING)
Date: 8/1/06

DATE No. Revision Description

PARCEL 3 ACCESS
AT DORSEY RUN INDUSTRIAL CENTER AND
60-FT RIGHT OF WAY FROM MONTEVIDEO ROAD
OWNER / DEVELOPER

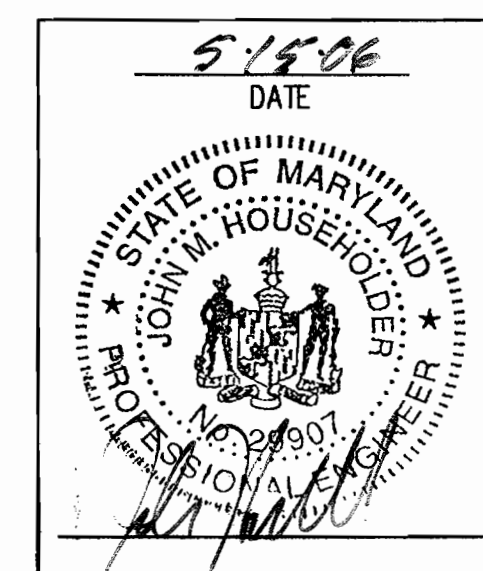
MONTEVIDEO SOUTH BUSINESS TRUST
C/O TRAMMELL CROW COMPANY

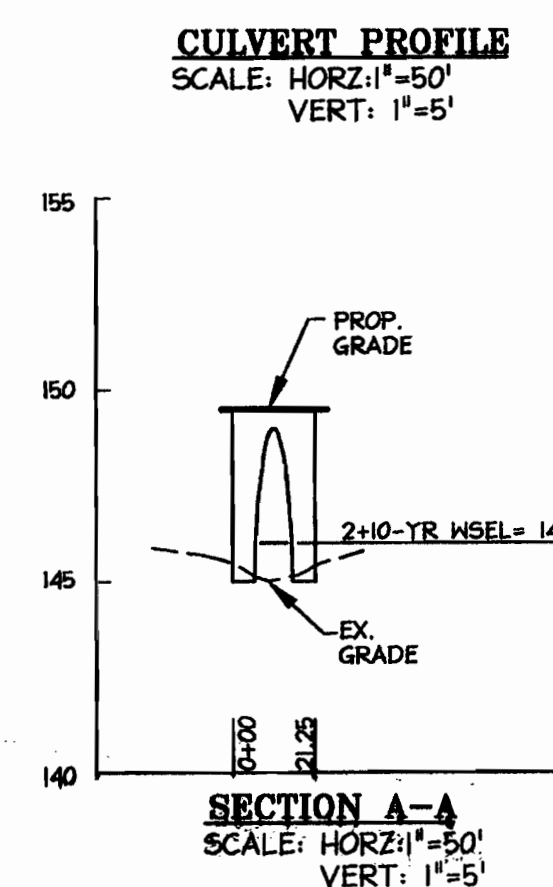
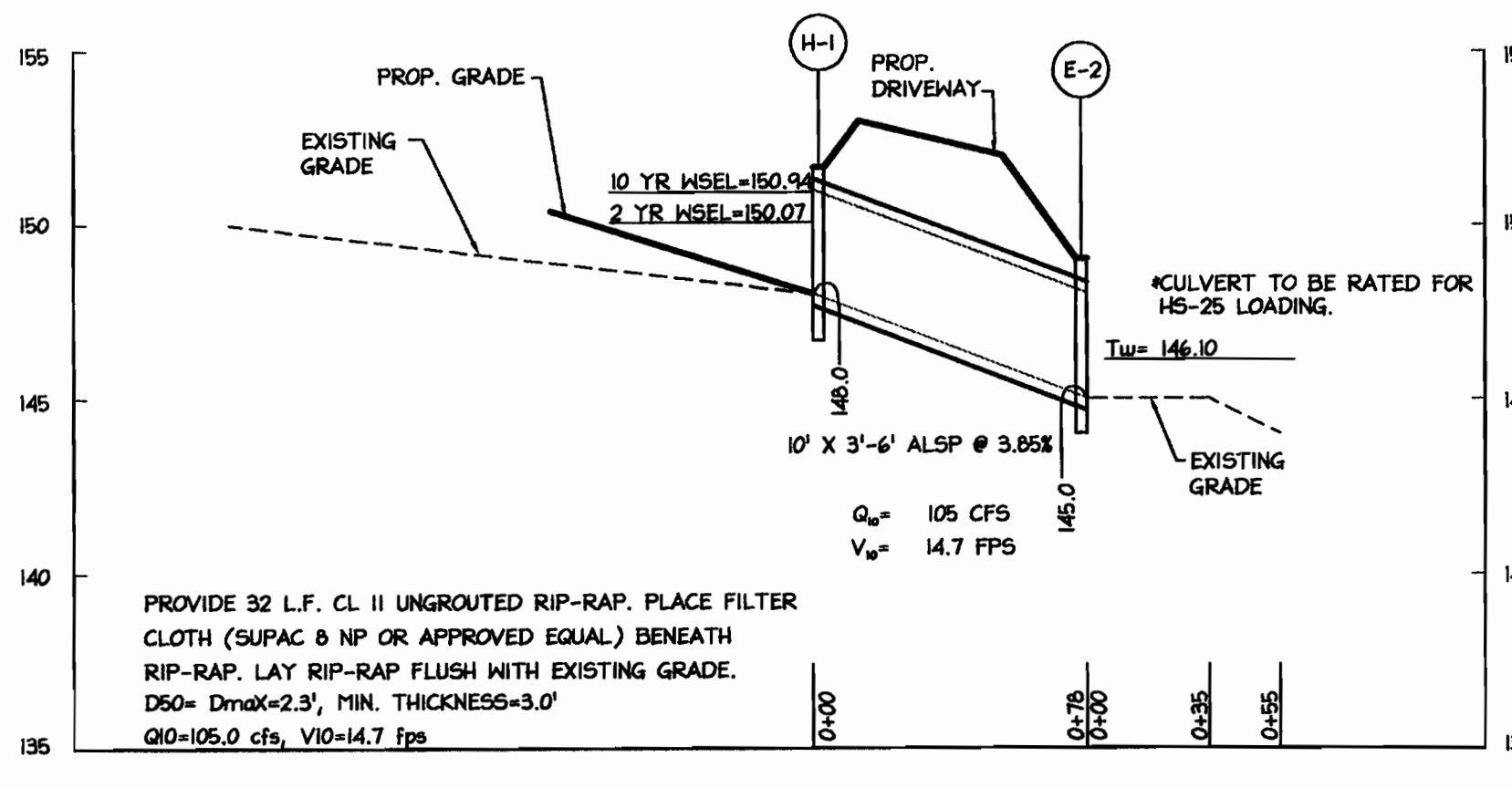
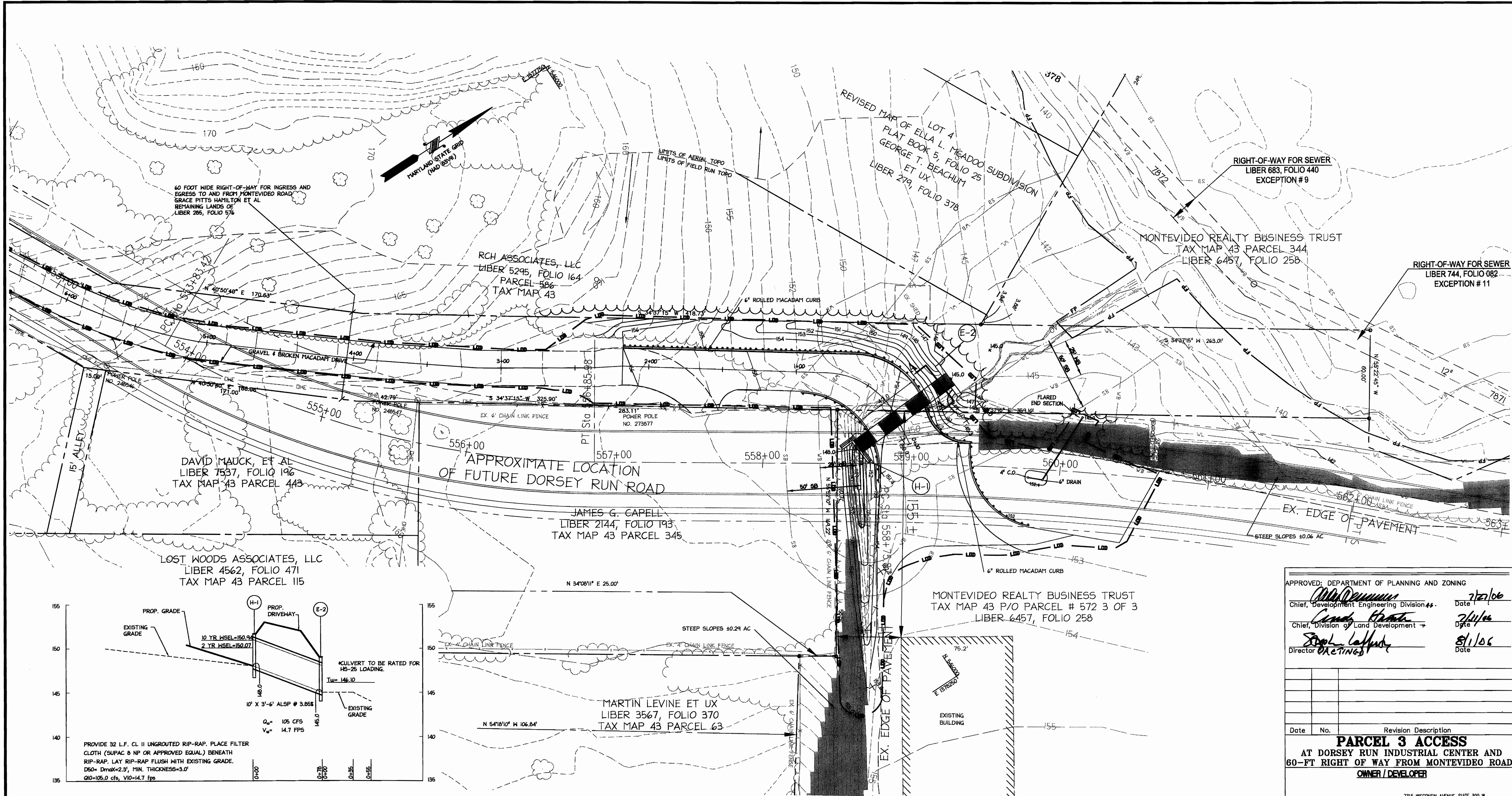
7315 WISCONSIN AVENUE, SUITE 300 W
BETHESDA, MARYLAND 20814
TEL. (301) 530-6200 FAX (301) 530-6131



TITLE:
PARCEL 3 L: 6457 F: 258 TAX MAP 49 TM P/O PARCEL 572, 3 OF 3 GRID 16
1ST ELECTION DISTRICT, HOWARD COUNTY, MD
SITE DETAILS

DESIGN: ADL SCALE: AS SHOWN PROJECT: Q38701.03
DRAWN: ADL DATE: 3-31-05
CHECKED: JMH APPROVED: 6 OF 11





- LEGEND**
- EXISTING CONTOUR
 - PROPOSED CONTOUR
 - EXISTING WOODS LINE
 - EXISTING STORM SEWER
 - EXISTING SANITARY SEWER
 - EXISTING WATER LINE
 - EXISTING MACADAM DRIVE
 - PROPOSED ACCESS ROAD
 - EXISTING FENCE
 - PROPOSED WOODS LINE
 - PROPOSED 3'-6" HT X 10' WIDE BOTTOMLESS ARCH CULVERT
 - SLOPE > 25%

STORM DRAIN STRUCTURE SCHEDULE

STR. NO.	TOP ELEV.	INV. IN	INV. OUT	TYPE	NORTHING	EASTING
H-1	152.0	148.0	-	5' MODIFIED TYPE "E" HEADWALL*	**546032.056	**1378082.412
E-2	149.0	-	145	5' MODIFIED TYPE "C" ENDWALL*	**546109.950	**1378078.312

* NOTE SEE DETAIL SHEET 6 OF 8
 ** COORDINATES TAKEN FROM FACE OF HEADWALL AND ENDWALL AT CENTER OF ARCH CULVERT.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] Chief, Development Engineering Division Date: 7/21/06

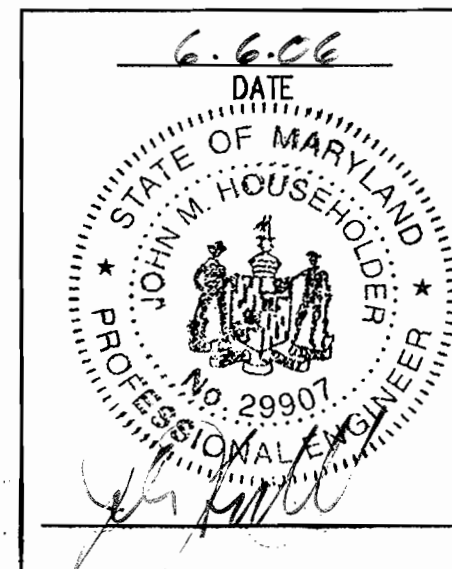
[Signature] Chief, Division of Land Development Date: 7/11/06

[Signature] Director Date: 8/1/06

PARCEL 3 ACCESS
 AT DORSEY RUN INDUSTRIAL CENTER AND
 60-FT RIGHT OF WAY FROM MONTEVIDEO ROAD
 OWNER / DEVELOPER

MONTEVIDEO SOUTH BUSINESS TRUST
 C/O TRAMMELL CROW COMPANY

7315 WISCONSIN AVENUE SUITE 300 W
 BETHESDA, MARYLAND 20814
 TEL (301) 530-6200 FAX (301) 530-6131



TITLE: PARCEL 3 L: 6457 F: 258 TAX MAP 43 TM P/O PARCEL 572, 3 OF 3 GRID 16
 1ST ELECTION DISTRICT, HOWARD COUNTY, MD
GRADING, UTILITY, AND PROFILE PLAN

DESIGN: JB4, KWS SCALE: 1"=30'
 DRAWN: ADL DATE: 5-31-05 PROJECT: 038701.08
 CHECKED: JMH APPROVED: 7 OF 11

GENERAL PLANTING NOTES

- ALL PLANT MATERIAL SHALL MEET A.A.N. STANDARDS
- LANDSCAPE CONTRACTOR SHALL FOLLOW LANDSCAPE SPECIFICATION GUIDELINES FOR HOWARD COUNTY.
- LANDSCAPE ARCHITECT/OWNER SHALL SELECT, VERIFY AND/OR APPROVE ALL PLANT MATERIAL. AT OWNER'S DISCRETION, SPECIMEN AND OTHER PLANT MATERIAL WILL BE SELECTED.
- NO SUBSTITUTIONS TO BE MADE WITHOUT CONSENT OF LANDSCAPE ARCHITECT OR OWNER.
- ALL BEDS TO BE TOPPED WITH THREE INCHES OF HARDWOOD MULCH.
- LANDSCAPE CONTRACTOR SHALL COORDINATE PLANT BED FILLING OPERATIONS AND PLANT MATERIAL INSTALLATION WITH GENERAL CONTRACTOR AND UTILITIES CONTRACTOR. AT THE TIME OF FINAL INSPECTION WITH ACCEPTANCE, ALL ELECTRIC, WATER, DRAINAGE, AND PLANT MATERIALS SHALL REMAIN UNDAUNAGED. LIKEWISE, LANDSCAPE CONTRACTOR AND UTILITIES CONTRACTOR SHALL COORDINATE EFFORTS TO INSURE THAT SURFACE UTILITIES ARE AT THE PROPER ELEVATION RELATIVE TO FINAL GRADES.
- LANDSCAPE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES WITH OWNERS BEFORE PLANTING.
- CONTRACTOR SHALL NOTIFY MISS UTILITY 72 HOURS PRIOR TO CONSTRUCTION.

- TOPSOIL MIX
 - PLANTING MIX SHALL BE PREPARED AT APPROVED ON-SITE STAGING AREA USING APPROVED ON-SITE EXISTING SOILS. MIX MINIMUM QUANTITIES OF 20 CUBIC YARDS OR SUFFICIENT MIX FOR ENTIRE JOB IF LESS THAN 20 CUBIC YARDS IS REQUIRED.
 - THOROUGHLY MIXED IN THE FOLLOWING PROPORTIONS FOR TREE AND SHRUB PLANTING MIX:
 - 0.5 CY EXISTING SOIL
 - 0.2 CY SHARP SAND
 - 0.3 CY MOOD RESIDUALS
 - 4.5 LBS TREBLE SUPERPHOSPHATE
 - 5 LBS DOLOMITE LIMESTONE (ELIMINATE FOR ACID LOVING PLANTS)
 - FOR BED PLANTING, SHRUBS AND GROUNDCOVER SPECIES 2" OR CLOSER, INCORPORATE THE FOLLOWING INGREDIENTS PER 20 SF. AND INCORPORATE INTO TOP 6 INCHES OF EXISTING SOILS BY ROTOTILLING OR SIMILAR METHOD.
 - 0.2 CY SHARP SAND
 - 0.3 CY ORGANIC MATERIAL
 - 4.5 LBS TREBLE SUPERPHOSPHATE
 - 5 LBS DOLOMITE LIMESTONE (ELIMINATE FOR ACID LOVING PLANTS)
- THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERRIS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO INSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.

11. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING IN THE AMOUNT OF \$1,200 MUST BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT. \$300 EACH FOR 2 SHADE, \$150 EACH FOR 4 EVERGREEN/ORNAIMENTAL).

12. DEVELOPER'S BUILDER'S CERTIFICATE
I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE-YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

NAME Trammell Crow Company DATE 6.9.06

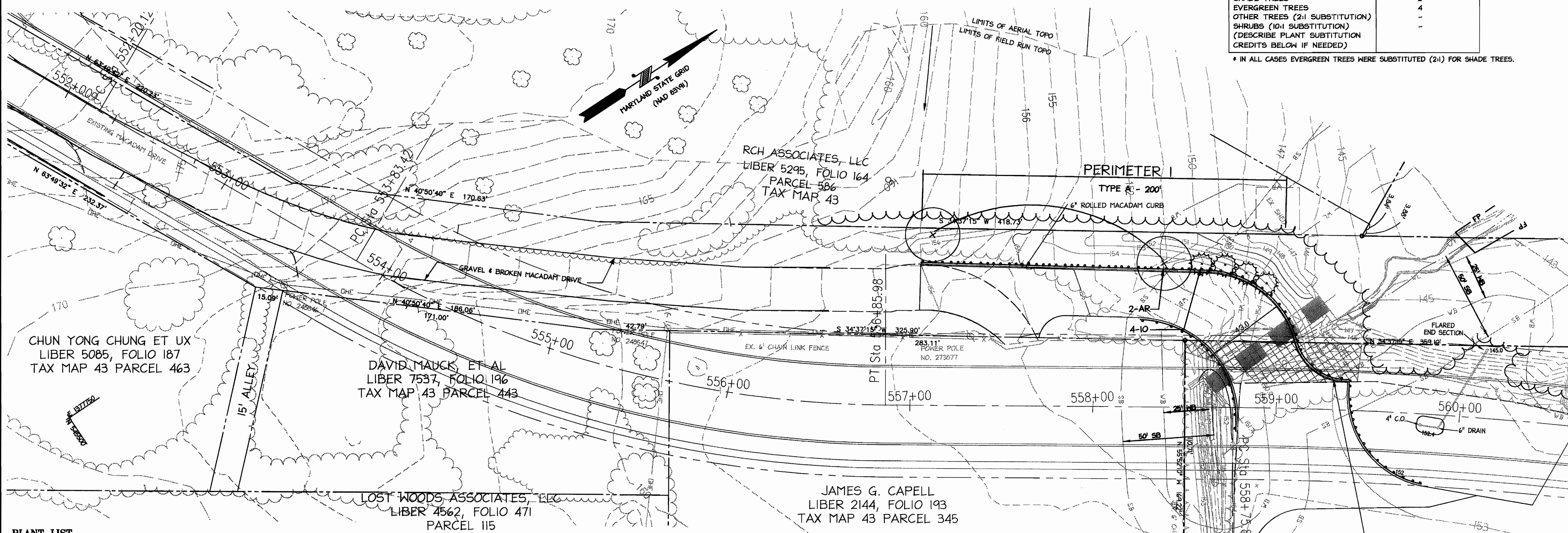
SCHEDULE A: PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO PERIMETER PROPERTIES
LANDSCAPE TYPE "A"	P 1
LINEAR FEET OF PERIMETER	200 LF.
CREDIT FOR EXISTING VEGETATION (DESCRIBE BELOW IF NEEDED)	N/A
REMAINING LINEAR FEET OF PERIMETER (PERIMETER - CREDIT)	200 LF.
NUMBER OF PLANTS REQUIRED	
SHADE TREES	4
EVERGREEN TREES	-
SHRUBS	-
NUMBER OF PLANTS PROVIDED	
SHADE TREES	2
EVERGREEN TREES	4
OTHER TREES (2:1 SUBSTITUTION)	-
SHRUBS (10:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)	-

* IN ALL CASES EVERGREEN TREES WERE SUBSTITUTED (2:1) FOR SHADE TREES.

LEGEND

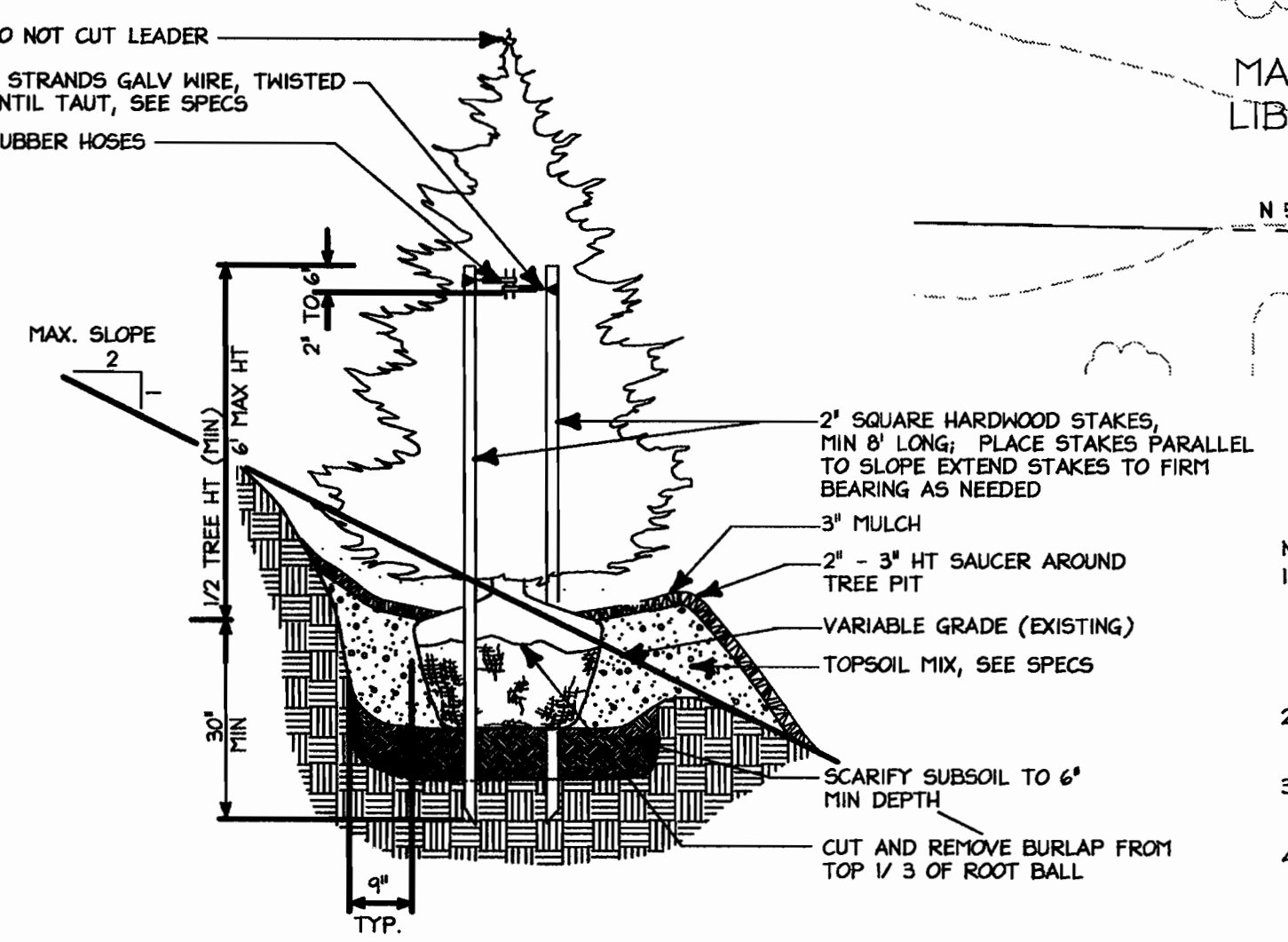
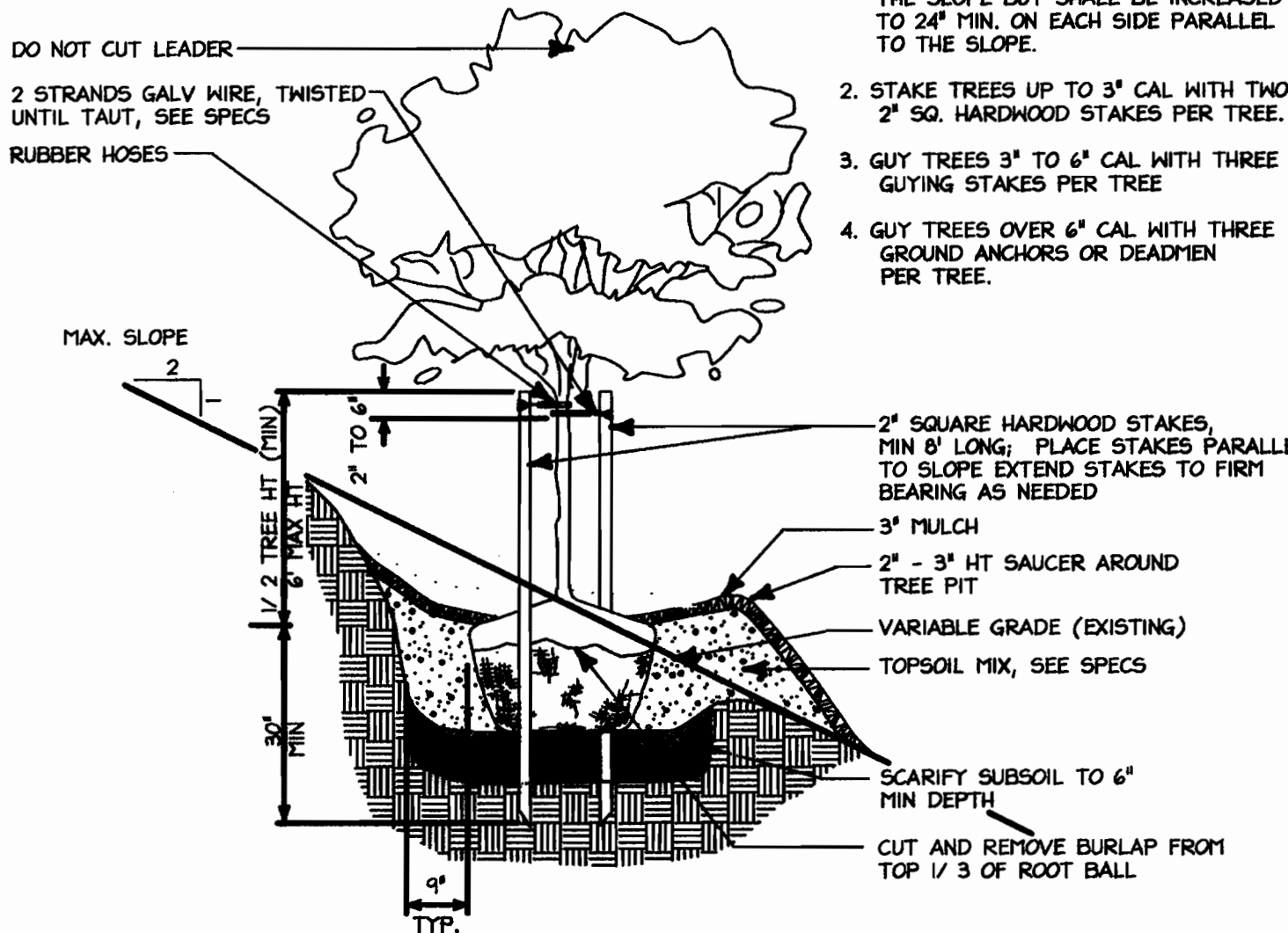
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- EXISTING WOODS LINE
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING GRAVEL & MACADAM DRIVE
- PROPOSED ACCESS ROAD
- EXISTING FOREST PROTECTION FENCE
- WETLAND BUFFER
- WETLAND
- SHADE TREE
- EVERGREEN TREE
- FOREST TO BE CLEARED
- PROPOSED WOODS LINE



PLANT LIST

QTY.	SYM.	SCIENTIFIC NAME	COMMON NAME	SPACING	COMMENTS
2	AR	Acer rubrum 'Red Sunset'	Red Sunset Red Maple	As Shown	2 1/2' - 3' cal.
4	IO	Ilex opaca	American Holly	As Shown	6' - 8'

- NOTES:**
- THE SIZE OF THE PLANTING PIT SHALL BE AS SHOWN PERPENDICULAR TO THE SLOPE BUT SHALL BE INCREASED TO 24" MIN. ON EACH SIDE PARALLEL TO THE SLOPE.
 - STAKE TREES UP TO 3" CAL WITH TWO 2" SQ. HARDWOOD STAKES PER TREE.
 - GUY TREES 3" TO 6" CAL WITH THREE GUYING STAKES PER TREE.
 - GUY TREES OVER 6" CAL WITH THREE GROUND ANCHORS OR DEADMEN PER TREE.



- NOTES:**
- THE SIZE OF THE PLANTING PIT SHALL BE AS SHOWN PERPENDICULAR TO THE SLOPE BUT SHALL BE INCREASED TO 24" MIN. ON EACH SIDE PARALLEL TO THE SLOPE.
 - STAKE TREES UP TO 12" HT WITH TWO 2" SQ. HARDWOOD STAKES PER TREE.
 - GUY TREES 12"-20" HT WITH THREE GUYING STAKES PER TREE.
 - GUY TREES OVER 20" HT WITH THREE GROUND ANCHORS OR DEADMEN PER TREE.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

W. J. ... Chief, Development Engineering Division 45- Date 7/27/06

C. ... Chief, Division of Land Development Date 7/31/06

S. ... Director Date 8/1/06

Date No. Revision Description

PARCEL 3 ACCESS
AT DORSEY RUN INDUSTRIAL CENTER AND 60-FT RIGHT OF WAY FROM MONTEVIDEO ROAD
OWNER / DEVELOPER

MONTEVIDEO SOUTH BUSINESS TRUST
C/O TRAMMELL CROW COMPANY

7315 WISCONSIN AVENUE, SUITE 300 W
BETHESDA, MARYLAND 20814
TEL. (301) 530-6200 FAX (301) 530-6131

PLAN VIEW
SCALE: 1"=30'

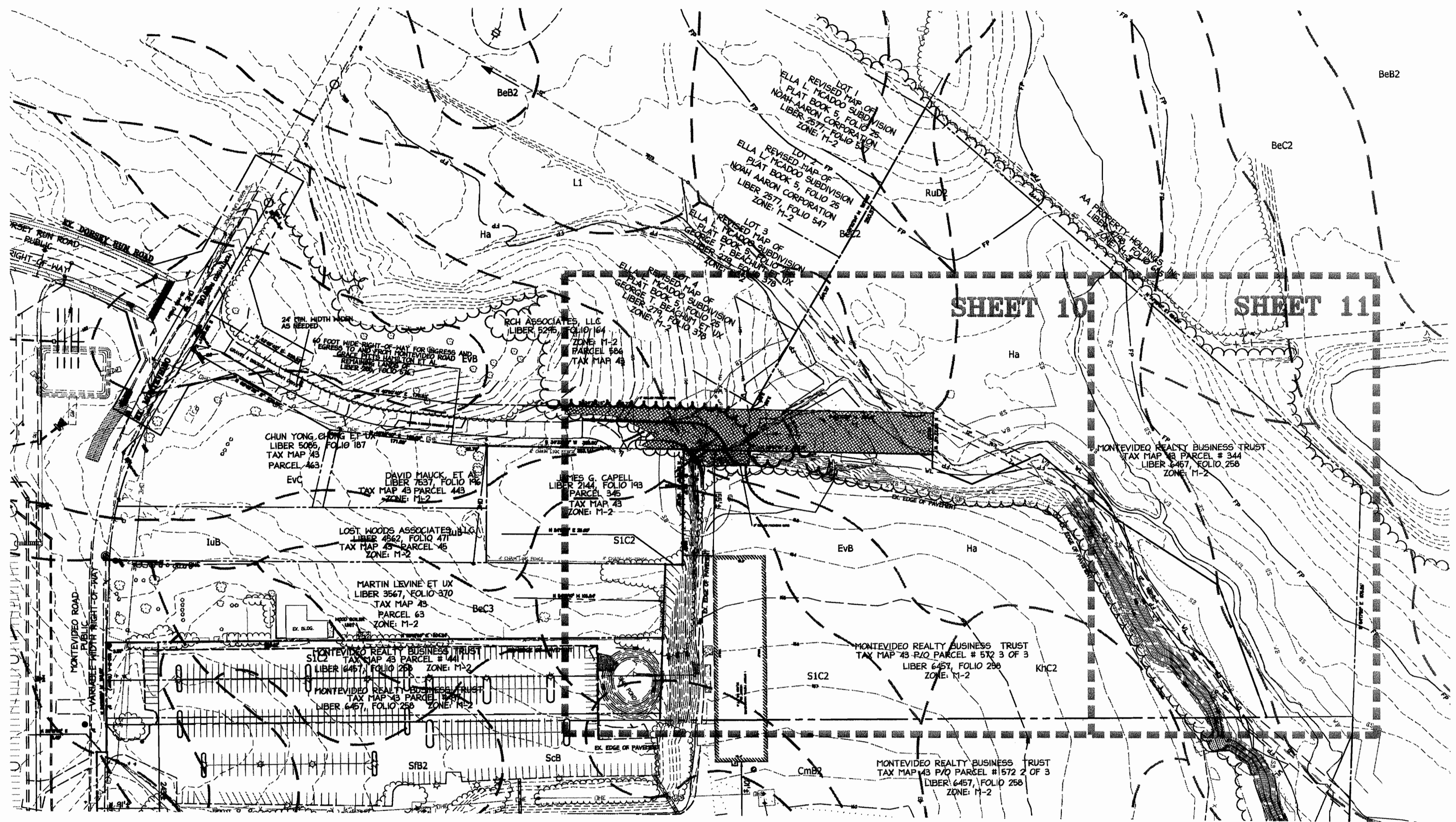
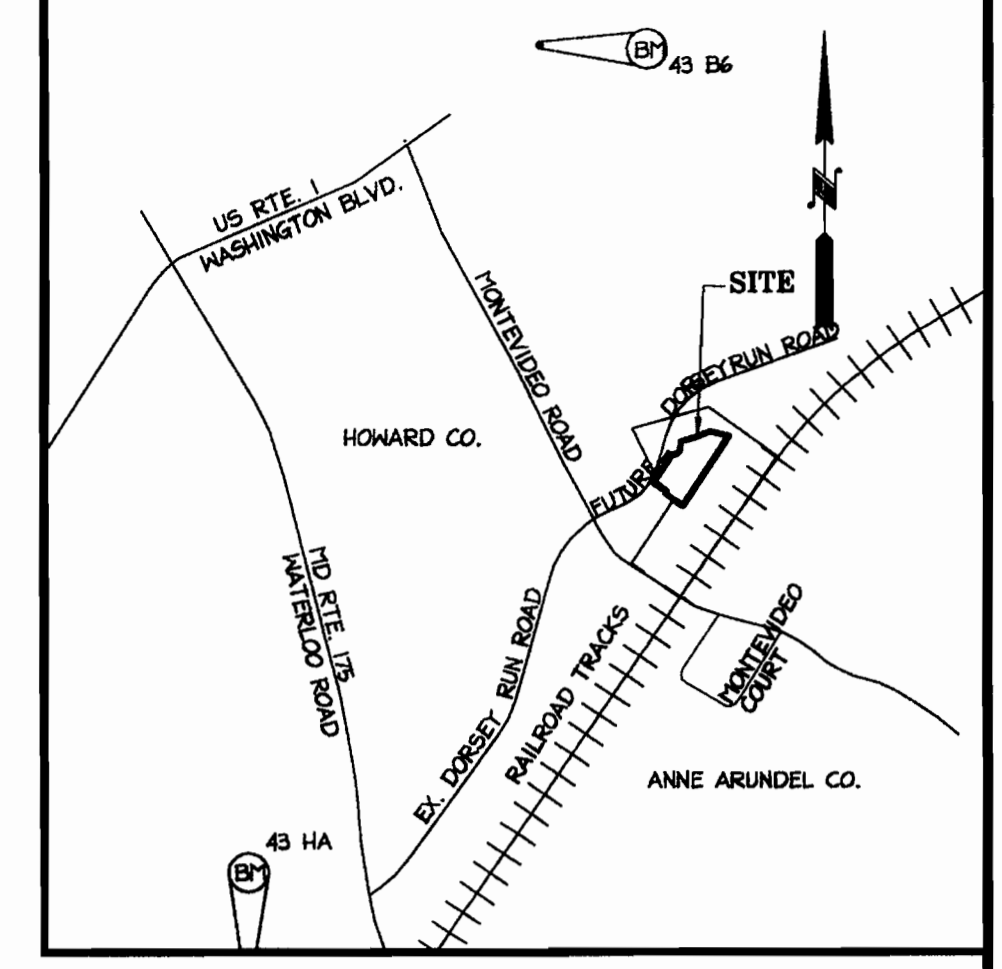


TITLE: PARCEL 3 L: 6457 P: 258 TAX MAP 43 TM P/O PARCEL 572, 3 OF 3 GRID 18 1ST ELECTION DISTRICT, HOWARD COUNTY, MD
LANDSCAPE PLAN

DESIGN: LES SCALE: 1"=30' PROJECT: 036701.08
DRAWN: ADL DATE: 3-31-05
CHECKED: JMH APPROVED: B. ...

FOREST CONSERVATION PLAN FOR PARCEL 3 AT DORSEY RUN INDUSTRIAL CENTER

- LEGEND**
- Soils Delineation Line
 - ▨ Slopes > 25%
 - ~ Proposed Treeline
 - ~ Existing Forest
 - ~ Other Existing Vegetation
 - ☼ Wetland
 - ~ Stream
 - WL Wetland Delineation
 - WB 25' Wetland Buffer
 - 50' Stream Buffer
 - FP Floodplain (100 YR) Boundary
 - Existing Contour
 - Adjacent Property Line
 - Property Line
 - Limit of Field Run Topo
 - ▨ Forest to be Cleared
 - ▨ Forest to Remain



OVERALL EX. PROPERTY
SCALE: 1"=100'

GOALS AND OBJECTIVES
The goal of this plan is to address the Forest Conservation Act and any reforestation/afforestation that may be required for Parcel 3. This project proposes minimal clearing to allow for the connection of the existing access road and existing parking lot, clearing a total of ±0.04 acres on the subject property (not contained in the Net Tract). The remaining existing forest will remain, however it will not be placed in an easement and for the purposes of the calculations has been considered cleared.

Please note: The clearing in the access right-of-way (±0.29 acres) has been assessed separately from Parcel 3. See calculations on sheet 3.

- General Notes**
- All existing forest not on the net tract area is to remain unless otherwise noted. It has not been included in the forest conservation calculations or Forest Conservation Easement.
 - Separate calculations were done for the access Right-of Way, see calculations on sheet 3.
 - No forest retention is proposed under this plan, therefore no surety is required.
 - The forestation obligation of 0.77 acre (33,541.2 sq ft @ \$0.50 per sq ft) for this plan has been satisfied by a fee-in-lieu payment of \$16,770.80 to the H0.Co. Forest Conservation Fund.

APPROVED: DEPARTMENT OF PLANNING AND ZONING	
Chief, Development Engineering Division 15	Date: 7/27/06
Chief, Division of Land Development	Date: 7/27/06
Director	Date: 8/1/06

7/26/05	REVISE PER COUNTY COMMENTS
Date	No. Revision Description
PARCEL 3 ACCESS	
AT DORSEY RUN INDUSTRIAL CENTER AND 60-FT RIGHT OF WAY FROM MONTEVIDEO ROAD	
OWNER / DEVELOPER	
MONTVIDEO SOUTH BUSINESS TRUST C/O TRAMMELL CROW COMPANY	7315 WISCONSIN AVENUE, SUITE 300 W BETHESDA, MARYLAND 20814 TEL: (301) 530-6200 FAX: (301) 530-6131

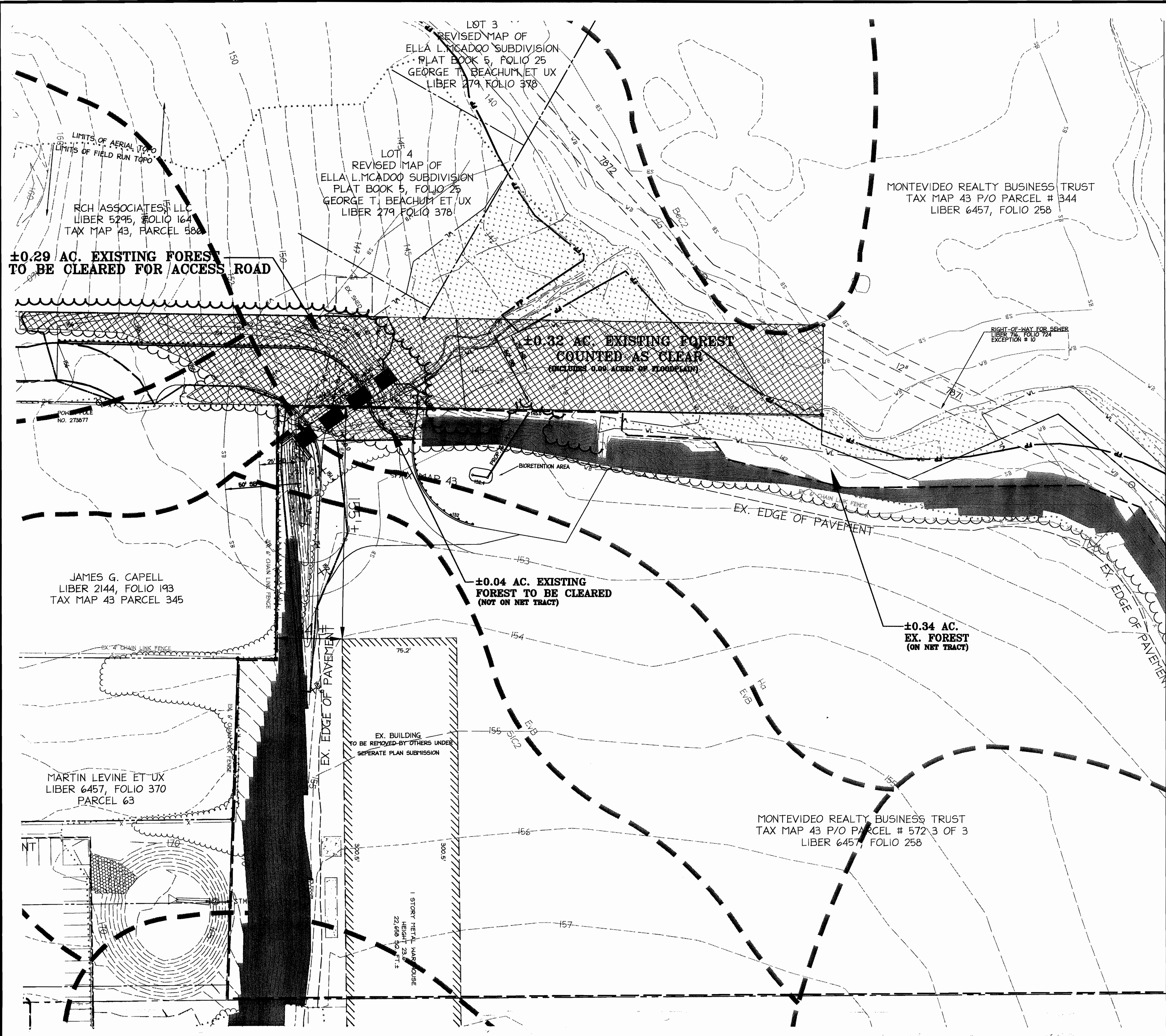
christopher consultants
engineering · surveying · land planning
christopher consultants, ltd.
1712 columbian gateway drive (suite 100) · columbia, md. 21046-2890
410.372.8800 · metro 301.881.0148 · fax 410.372.8803

ADDRESS CHART					
LOT/PARCEL #	STREET ADDRESS				
3	7585 MONTEVIDEO ROAD, HOWARD COUNTY, MD				
PERMIT INFORMATION CHART					
PROJECT NAME	SECTION/AREA	LOT/PARCEL NO.			
DORSEY RUN INDUSTRIAL CENTER		TM/PO PARCEL 572, 3 OF 3			
PLAT# or L/F	GRID #	ZONING	TAX MAP NO.	ELECT DIST	CENSUS TRACT
LIBER 6457, FOLIO 258	16	M-2	43	1ST	6012.02
WATER CODE	B-01	SEWER CODE	222 100		
TITLE: PARCEL 3 L: 6457 P: 258 TAX MAP 43 TM P/O PARCEL 572 3 OF 3 GRID 16 1ST ELECTION DISTRICT, HOWARD COUNTY, MD.					
COVER SHEET					
FOREST CONSERVATION PLAN					
DESIGN: KEH	SCALE: 1"=100'	PROJECT: 036701.01			
DRAWN: BKC/ADL	DATE: 2-7-05				
CHECKED: KEH	APPROVED:	9 OF 11			

06/06/06
DATE

Kevin Hedge
KEVIN HEDGE
COMAR QUALIFIED FOREST PROFESSIONAL

MDC-223



MATCHLINE SEE SHEET 3 OF 3

APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>[Signature]</i> Chief, Development Engineering Division	Date: 7/27/06
<i>[Signature]</i> Chief, Division of Land Development	Date: 7/27/06
<i>[Signature]</i> Director	Date: 8/1/06

7/26/05	1	REVISE PER COUNTY COMMENTS
Date	No.	Revision Description
PARCEL 3 ACCESS		
AT DORSEY RUN INDUSTRIAL CENTER AND 60-FT RIGHT OF WAY FROM MONTEVIDEO ROAD		
OWNER / DEVELOPER		
MONTEVIDEO SOUTH BUSINESS TRUST C/O TRAMMELL CROW COMPANY 7315 WISCONSIN AVENUE SUITE 300 W BETHESDA, MARYLAND 20814 TEL. (301) 530-6200 FAX (301) 530-6131		



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7172 columbia gateway drive (suite 100) · columbia, md 21046-2990
410.872.8880 · metro 301.881.0148 · fax 410.872.8883

TITLE:
PARCEL 3 L: 6457 F: 258 TAX MAP 43 TM P/O PARCEL 572.3 OF 3 GRID 16
1ST ELECTION DISTRICT, HOWARD COUNTY, MD
FOREST CONSERVATION PLAN

DESIGN:	SCALE: 1"=30'	PROJECT: 036701.08
DRAWN: ADL/LEJ	DATE: 2-7-05	
CHECKED: BKC	APPROVED:	10 OF 11

[Signature]
DATE: 06/06/06
NEW FOREST
COMAR QUALIFIED FOREST PROFESSIONAL

MDC-223

Calculations for Parcel 3

Basic Site Data

GROSS SITE AREA	6.50 AC.
AREA WITHIN 100 YR. FLOODPLAIN	0.45 AC.
MISC. AREA (PREVIOUSLY DISTURBED)	5.69 AC.
NET TRACT AREA	0.36 AC.
LAND USE CATEGORY	C/1/0

Information for Calculations

A. NET TRACT AREA	0.36 AC.
B. REFORESTATION THRESHOLD (15%)	0.05 AC.
C. AFFORESTATION MINIMUM (15%)	0.05 AC.
D. EXISTING FOREST ON NET TRACT	0.34 AC.
E. FOREST AREAS TO BE CLEARED	0.34 AC. (AREA WILL NOT BE CLEARED, BUT HAS BEEN CONSIDERED CLEARED FOR CALCULATIONS)
F. FOREST AREAS TO BE RETAINED	0.00 AC.

Information for Requirements

A. NET TRACT AREA	0.36 AC.
B. REFORESTATION THRESHOLD (15%)	0.05 AC.
C. EXISTING FOREST ON NET TRACT AREA	0.34 AC.
D. FOREST AREA TO BE CLEARED	0.34 AC.
E. FOREST AREAS TO REMAIN	0.00 AC.
F. FOREST AREAS CLEARED ABOVE REFORESTATION THRESHOLD	0.05 AC.
G. FOREST AREAS CLEARED BELOW REFORESTATION THRESHOLD	0.29 AC.
H. FOREST AREAS RETAINED ABOVE REFORESTATION THRESHOLD	0.00 AC.
I. REFORESTATION FOR CLEARING ABOVE THRESHOLD	0.07 AC.
J. REFORESTATION FOR CLEARING BELOW THRESHOLD	0.11 AC.
K. CREDIT FOR RETENTION ABOVE THRESHOLD	0.00 AC.
L. TOTAL REFORESTATION REQUIRED	0.18 AC.
M. REFORESTATION PROVIDED	0.00 AC.

Calculations for Right-of-Way

Basic Site Data

GROSS SITE AREA	1.50 AC.
AREA WITHIN 100 YR. FLOODPLAIN	0.09 AC.
MISC. AREA (PREVIOUSLY DISTURBED)	0.36 AC.
NET TRACT AREA	1.05 AC.
LAND USE CATEGORY	C/1/0

Information for Calculations

A. NET TRACT AREA	1.05 AC.
B. REFORESTATION THRESHOLD (15%)	0.16 AC.
C. AFFORESTATION MINIMUM (15%)	0.16 AC.
D. EXISTING FOREST ON NET TRACT	0.52 AC. (0.23 ACRES OF AREA WILL NOT BE CLEARED, BUT HAS BEEN CONSIDERED CLEARED FOR CALCULATIONS)
E. FOREST AREAS TO BE CLEARED	0.52 AC.
F. FOREST AREAS TO BE RETAINED	0.00 AC.
G. FLOODPLAIN CLEARING	0.09 AC. (COUNTED AS CLEARING)

Information for Requirements

A. NET TRACT AREA	1.05 AC.
B. REFORESTATION THRESHOLD (15%)	0.16 AC.
C. EXISTING FOREST ON NET TRACT AREA	0.52 AC.
D. FOREST AREA TO BE CLEARED	0.61 AC. (INCLUDES .09 OF FLOODPLAIN)
E. FOREST AREAS TO REMAIN	0.00 AC.
F. FOREST AREAS CLEARED ABOVE REFORESTATION THRESHOLD	0.45 AC.
G. FOREST AREAS CLEARED BELOW REFORESTATION THRESHOLD	0.16 AC.
H. FOREST AREAS RETAINED ABOVE REFORESTATION THRESHOLD	0.00 AC.
I. REFORESTATION FOR CLEARING ABOVE THRESHOLD	0.09 AC.
J. REFORESTATION FOR CLEARING BELOW THRESHOLD	0.50 AC.
K. CREDIT FOR RETENTION ABOVE THRESHOLD	0.00 AC.
L. TOTAL REFORESTATION REQUIRED	0.59 AC.
M. REFORESTATION PROVIDED	0.00 AC.

Calculations for Parcel 3 & Right-of-Way Combined

Basic Site Data

GROSS SITE AREA	8.00 AC.
AREA WITHIN 100 YR. FLOODPLAIN	0.54 AC.
MISC. AREA (PREVIOUSLY DISTURBED)	6.05 AC.
NET TRACT AREA	1.41 AC.
LAND USE CATEGORY	C/1/0

Information for Calculations

A. NET TRACT AREA	1.41 AC.
B. REFORESTATION THRESHOLD (15%)	0.21 AC.
C. AFFORESTATION MINIMUM (15%)	0.21 AC.
D. EXISTING FOREST ON NET TRACT	0.86 AC.
E. FOREST AREAS TO BE CLEARED	0.86 AC.
F. FOREST AREAS TO BE RETAINED	0.00 AC.
G. FLOODPLAIN CLEARING	0.09 AC. (COUNTED AS CLEARING)

Information for Requirements

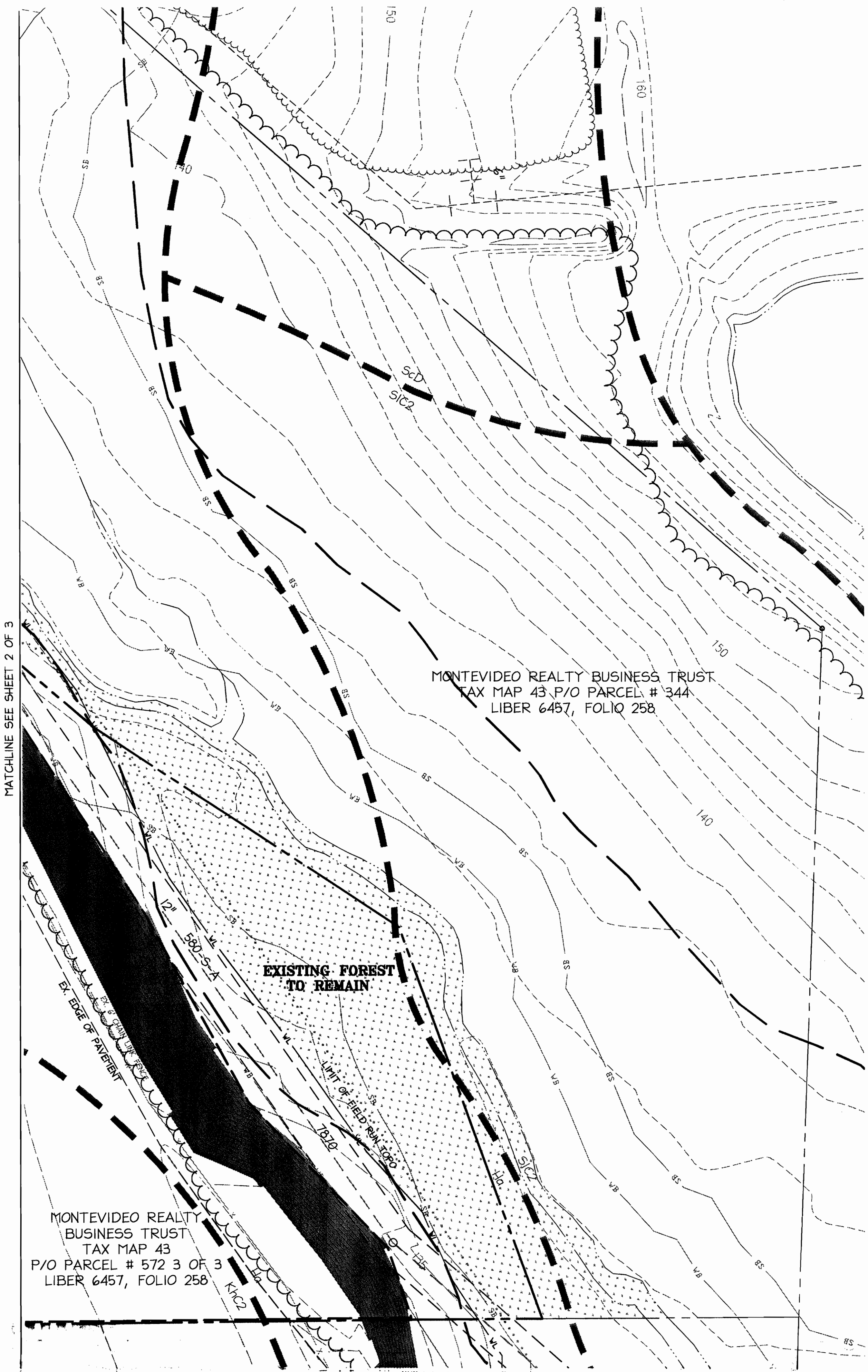
A. NET TRACT AREA	1.41 AC.
B. REFORESTATION THRESHOLD (15%)	0.21 AC.
C. EXISTING FOREST ON NET TRACT AREA	0.86 AC.
D. FOREST AREA TO BE CLEARED	0.95 AC. (INCLUDES .09 OF FLOODPLAIN)
E. FOREST AREAS TO REMAIN	0.00 AC.
F. FOREST AREAS CLEARED ABOVE REFORESTATION THRESHOLD	0.74 AC.
G. FOREST AREAS CLEARED BELOW REFORESTATION THRESHOLD	0.21 AC.
H. FOREST AREAS RETAINED ABOVE REFORESTATION THRESHOLD	0.00 AC.
I. REFORESTATION FOR CLEARING ABOVE THRESHOLD	0.16 AC.
J. REFORESTATION FOR CLEARING BELOW THRESHOLD	0.60 AC.
K. CREDIT FOR RETENTION ABOVE THRESHOLD	0.00 AC.
L. TOTAL REFORESTATION REQUIRED	0.77 AC.
M. REFORESTATION PROVIDED	0.00 AC.

REFORESTATION PROVIDED FOR BOTH PARCELS - 0.00 ACRES.
REQUEST FOR FEE IN LIEU FOR 0.77 ACRES (33,541 S.F. @ \$0.50/S.F.) = \$16,770.60

LEGEND

- Soils Delineation Line
- ▨ Slopes > 25%
- ~ Proposed Treeline
- ~ Existing Forest
- ~ Other Existing Vegetation
- ~ Stream
- ~ Wetland
- WL Wetland Delineation
- WB 25' Wetland Buffer
- SB 50' Stream Buffer
- FP Floodplain (100 YR) Boundary
- 200--- Existing Contour
- Adjacent Property Line
- Property Line
- Previously Disturbed Area
- ***** Limit of Field Run Topo

NOTE:
THE MOST CURRENT SDP ON FILE AT HOWARD COUNTY IS SDP-87-124. IT HAS BEEN CONCLUDED THAT THE LAST DISTURBANCE ON THE SITE WHICH CAUSED THE CLEARING OF TREES, WAS MOST LIKELY AT THE TIME OF THE LAST EXPANSION IN 1970.



APPROVED: DEPARTMENT OF PLANNING AND ZONING	
Chief, Development Engineering Division 45	7/22/06
Chief, Division of Land Development	7/21/06
Director	8/1/06

7/26/05 1	REVISE PER COUNTY COMMENTS
Date	No.

PARCEL 3 ACCESS
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TITLE:
PARCEL 3 L: 6457 F: 258 TAX MAP 43 TM P/O PARCEL 672, 3 OF 3 GRD 18
1ST ELECTION DISTRICT, HOWARD COUNTY, MD
FOREST CONSERVATION PLAN

DESIGN: KEH	SCALE: 1"=30'	PROJECT: 036701.08
DRAWN: ADL/LES	DATE: 2-7-05	
CHECKED: BKC	APPROVED:	11 of 11

06/06/06
DATE
K. W. HEDGECOCK
COMAR QUALIFIED FOREST PROFESSIONAL