# SITE DEVELOPMENT PLAN ROUTE ONE BUSINESS PARK

SHEET INDEX	
COVER SHEET	1
GRADING AND SEDIMENT CONTROL PLAN	2
GRADING AND SEDIMENT CONTROL PLAN	3
SEDIMENT CONTROL NOTES & DETAILS	4
STORMWATER MANAGEMENT DETAILS	5
STORMWATER MANAGEMENT DETAILS	6
WATER, SEWER, & STORM DRAIN PROFILES	7
SOIL BORINGS & TRAFFIC CONTROL PLAN	8
DRAINAGE AREA MAP	9
LANDSCAPE PLAN	10
FOREST CONSERVATION PLAN	11

<u>OWNER</u>

JESSUP ROCK, LLC.

C/O ROCK REALTY, INC.

25 MAIN STREET

REISTERSTOWN, MD 21136

(410) 526-4030

DEVELOPERS CERTIFICATE

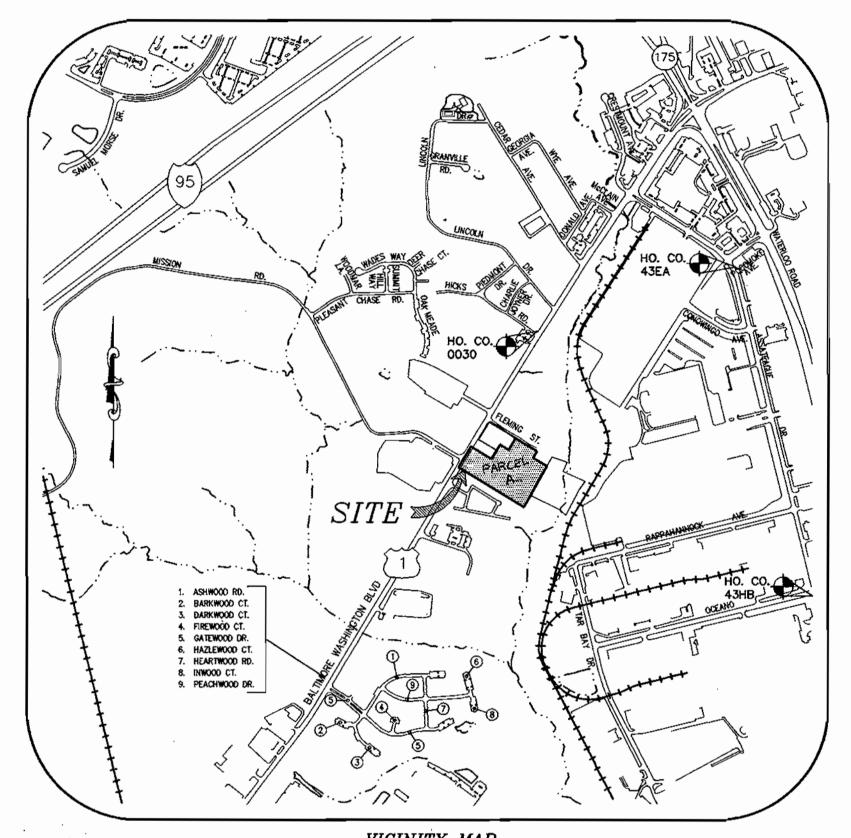
ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON—SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE

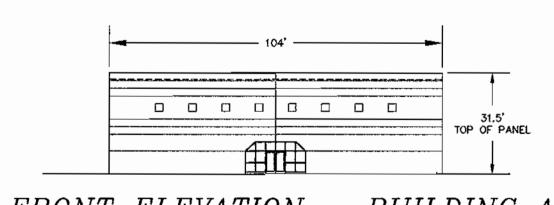
THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD

SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL

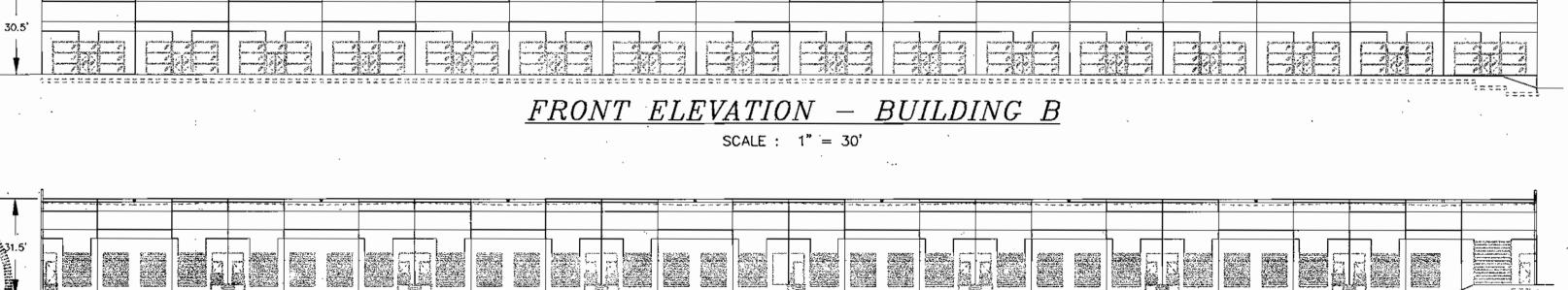
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



*VICINITY MAP* SCALE: 1"=1000'



FRONT ELEVATION - BUILDING A SCALE : 1'' = 30'



REAR ELEVATION - BUILDING B

SCALE : 1" = 30'

GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS
- 2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTIONS DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- 3. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS PRIOR TO ANY EXCAVATION WORK:

(410) 725-9976 (410) 313-4900 C&P TELEPHONE COMPANY HOWARD COUNTY BUREAU OF UTILITIES (410) 393-3533 (410) 685-0123 AT&T CABLE LOCATION DIVISION BALTIMORE GAS & ELECTRIC STATE HIGHWAY ADMINISTRATION (410) 531--5533 HOWARD COUNTY DEPT. OF PUBLIC WORKS/ CONSTRUCTION INSPECTION DIVISION (410) 313-1880

LOCATION: SIXTH ELECTION DISTRICT - TAX MAP 43 - PARCELS 219 & P/O 541 TOTAL TRACT AREA: 7.81 ACRES ± (INCLUDES DEDICATION); PARCEL A = 7.38 AC ± PROPOSED USE: HYBRID INDUSTRIAL/OFFICE CENTER (SINGLE STORY) REQUIRED PARKING: 72,800 S.F. x 2.5 SPACES/1000 S.F. = 182 SPACES

DPZ REFERENCE #: BA-00-05V. , F-02.148 P.N. 15532

- 5. TWO FOOT CONTOUR TOPOGRAPHY AND EXISTING CONDITIONS BASED ON AERIAL TOPOGRAPHIC SURVEY PERFORMED BY WINGS AERIAL MAPPING CO, INC. ON OR ABOUT NOVEMBER 1999. BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT MAY 1999 BY MILDENBERG, BOENDER & ASSOCIATES, INC.
- 6. HORIZONTAL AND VERTICAL DATUMS BASED ON (NAD'83) MARYLAND STATE COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS.

ELEV. 217.50 E 1.371.561.666 STA. No. 43EA N 546,594,000 ELEV. 242.88

- ELEV. 252.31
- 7. WATER AND SEWER ARE PUBLIC. WATER AND SEWER TO BE SERVICED BY CONTRACT# 76-W & 676-S. REQUIREMENTS, 15-FOOT ACCELERATION/DECELERATION LANES ARE REQUIRED ALONG THE PROPERTY
- 9. WETLAND DELINEATION PREPARED BY HILLIS-CARNES ENGINEERING ASSOCIATES, INC. ON MAY 11, 2000. FOREST STAND DELINEATION PREPARED BY HILLIS-CARNES ENGINEERING ASSOCIATES, INC. ON MAY 10, 2001.
- 10. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES ON SITE PRIOR TO COMMENCING
- 11. PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- 12. NO STEEP SLOPES EXIST ON-SITE.
- 13. NO WETLANDS EXIST ON-SITE PER WETLAND DELINEATION PREPARED BY HILLIS-CARNES ENGINEERING ASSOCIATES, INC. ON MAY 11, 2000. WETLANDS EXIST ON PARCEL 562, JUST EAST OF THE SITE.
- 14. NO FLOODPLAIN EXISTS ON-SITE. EXISTING FLOODPLAIN SHOWN ON PARCEL 562.
- 15. NO CEMETERY OR HISTORIC STRUCTURES EXIST ON-SITE.
- PROPERTY IS NOT ADJACENT TO ANY SCENIC ROADS.
- 17. STORMWATER MANAGEMENT QUANTITY CONTROL IS TO BE PROVIDED VIA AN UNDERGROUND FACILITY. WATER QUALITY WILL BE PROVIDED WA UNDERGROUND INFILTRATION. FACILITIES ARE TO BE PRIVATELY OWNED AND MAINTAINED.
- 18. FOREST CONSERVATION EASEMENT(S) HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.200 OF HOWARD COUNTY FOREST CONSERVATION ACT. NO CLEARING, GRADING, OF CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, EXCEPT AS SHOWN ON AN APPROVED ROAD CONSTRUCTION DRAWING OR SITE DEVELOPMENT PLAN. HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OR CONSERVATION EASEMENT ARE ALLOWED.
- 19. THE FOREST CONSERVATION REQUIREMENTS PER SECTION 16.1202 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY RETENTION OF 0.93 AGRES OF FOREST, REFORESTATION OF 0.66 ACRES, AND PAYMENT OF A FEE-IN-LIEU OF REFORESTATION FOR 0.64 ACRES (27,878.4 SQ. FT.) IN THE AMOUNT OF \$13,939,20. FINANCIAL SURETY FOR THE ON-SITE RETENTION (0.93 ACRES OR 40,510.8 SQ. FT. IN THE AMOUNT OF \$8,102.16) AND REFORESTATION (0.54 ACRES OR 23,522.4 SQ. FT. IN THE AMOUNT OF \$11,761.20) HAS BEEN POSTED AS PART OF THE DEVELOPERS AGREEMENT IN THE AMOUNT OF \$19,863.36. FOREST CONSERVATION CREDIT FOR 5,200 SQ. FT. (0.21 ACRES) OF LANDSCAPING HAS BEEN TAKEN FOR 13 SHADE TREES AS SHOWN ON THIS PLAN TO BE PLANTED AS PART OF THE LANDSCAPING REQUIREMENTS. THE 0.21 ACRES OF CREDIT HAS BEEN DEDUCTED FROM THE REQUIRED REFORESTATION SURETY. SEE F-02-148 FOR ON-SITE FCE'S.
- 20. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
- 21. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT FOR THE REQUIRED LANDSCAPE PLANTINGS (54 SHADE TREES, 42 EVERGREENS, & 9 SHRUBS) IN THE AMOUNT OF \$22,620.00.
- 22. ON MAY 10, 2001 UNDER BA-00-05V, A VARIANCE TO SECTION 123.D.2.c HAS BEEN GRANTED TO REDUCE THE REQUIRED STRUCTURE AND USE SETBACK FROM RESIDENTIAL DISTRICTS FROM 150' TO 50' FOR THE PARKING AREAS AND FROM 150' TO 120' FOR BUILDING B. THIS VARIANCE ALSO REQUIRED A 6-FOOT LANDSCAPED BERM TO BUFFER BETWEEN THE PARKING AND THE ADJACENT MOBILE HOME PARK.
- 23. NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S), OR THEIR BUFFERS AND FOREST CONSERVATION EASEMENT AREAS.
- 24. ALL OUTDOOR LIGHTING SHALL COMPLY WITH THE REQUIREMENTS OF HOWARD COUNTY ZONING REGULATIONS SECTION 134.
- 25. AN EXISTING ACCESS AGREEMENT WITH PARCEL 220 WAS RECORDED IN LIBER 3073, FOLIO 0703. THIS AGREEMENT REFERS TO AN EXISTING DRIVEWAY FOR ACCESS, AND STATES PROVISIONS FOR THE RELOCATION OF THE ACCESS POINT UPON DEVELOPMENT OF PARCEL 219. RELOCATION SHOWN ACROSS PARCEL ON THESE PLANS, REFER TO SHEETS 2 AND 3.
- 26. THE PROPOSED LIGHTING LOCATIONS AND TYPES OF LIGHTS SHOWN ON SHEETS 2 & 3 ARE AS FOLLOWS - 150-WATT HPS VAPOR PENDANT FIXTURE (CUTOFF) MOUNTED AT 30' ON A BRONZE FIBERGLASS POLE USING A 12' ARM ANGLED RADIAL TO THE FILLET AT US RT 1.
- 100-WATT "TRADITIONAIRE" HPS VAPOR POST TOP FIXTURE ON A 14' BLACK FIBERGLASS POLE SHOWN THROUGHOUT THE PARKING AREA.
- 27. THERE IS AN EXISTING PERPETUAL PARKING, ACCESS, AND USE EASEMENT FOR BUILDINGS A & B ACROSS PARCEL 219 AND PARCEL 541, BLOCK C, LOTS 8 THRU 10, BLOCK D, LOTS 4 THRU 7, AND BLOCK E, LOTS 7 AND 8, RECORDED AMONG THE LAND RECORDS AT LIBER 6/26, FOLIO339. UPON RECORDATION OF PLAT # 15532, ROUTE ONE BUSINESS PARK, ON AUGUEST 9.2002. PARCEL 'A' IS NOW SUBJECT TO THIS EXISTING EASEMENT, AND ALLOWS ACCESS TO ROUTE ONE ALROSS PARCEL A FOR PARCEL 220.)
- 28. EXISTING SEDIMENT CONTROL DEVICES INSTALLED IN ACCORDANCE WITH THESE PLANS, ARE TO BE USED FOR REDUNE #1.

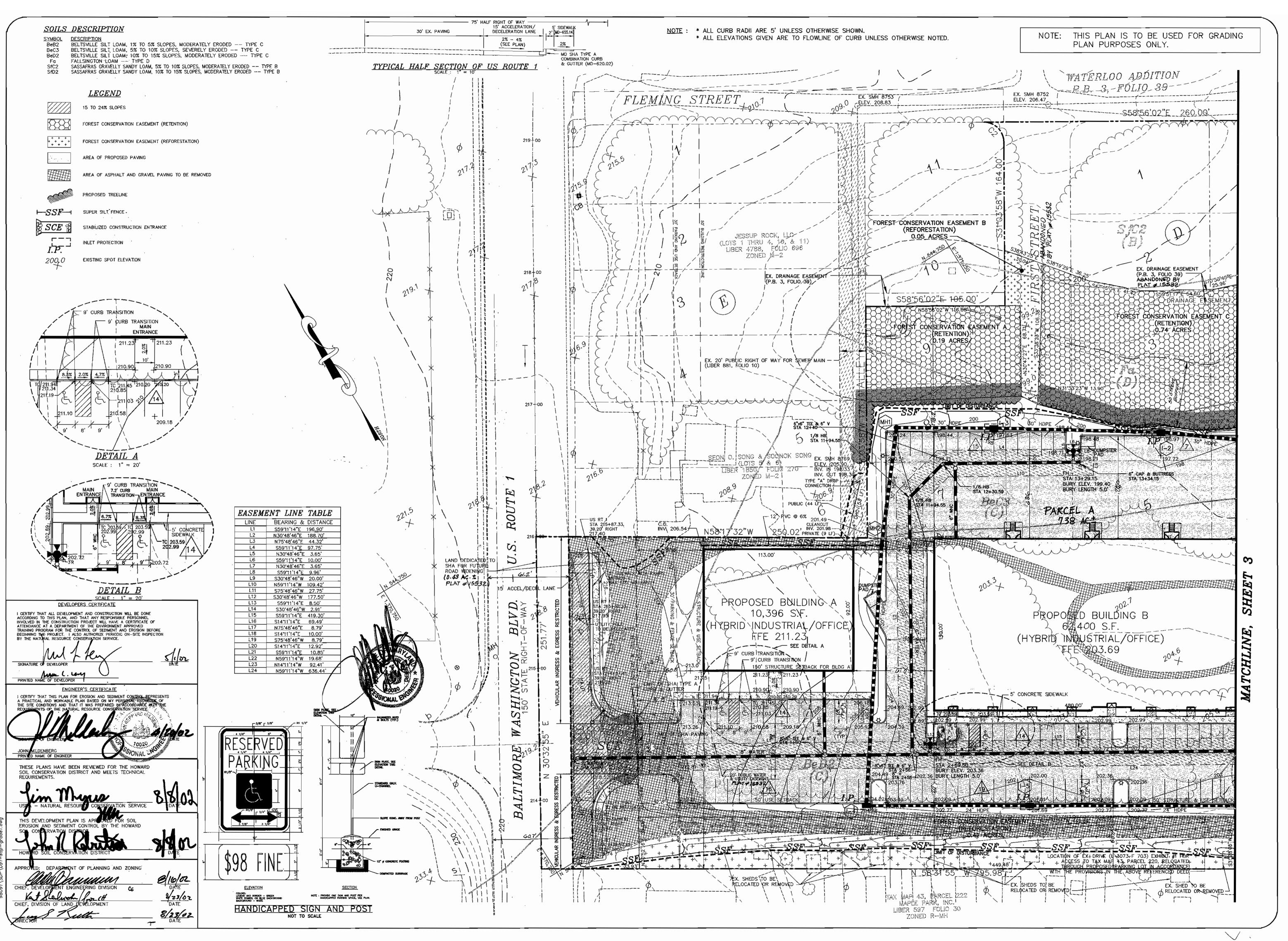
	ADDRESS CHART
BUILDING NO.	STREET ADDRESS
BUILDING A	8171 WASHINGTON BLVD, JESSUP, MD 20794
BUILDING B	8181 WASHINGTON BLVD, JESSUP, MD 20794

SUBDIVISION NAM ROUTE ONE BU		ARK	SECTION/AREA N/A		L# <i>CEL</i> A	
PLAT # OR L/F	BLOCK #	ZONE M-2	TAX MAP 43	ELEC. DIST. SIXTH	CENSUS TRACT 6069.01	
WATER CODE			SEWER CODE			
B-02				3240000		

of **11** 

SDP-02-06

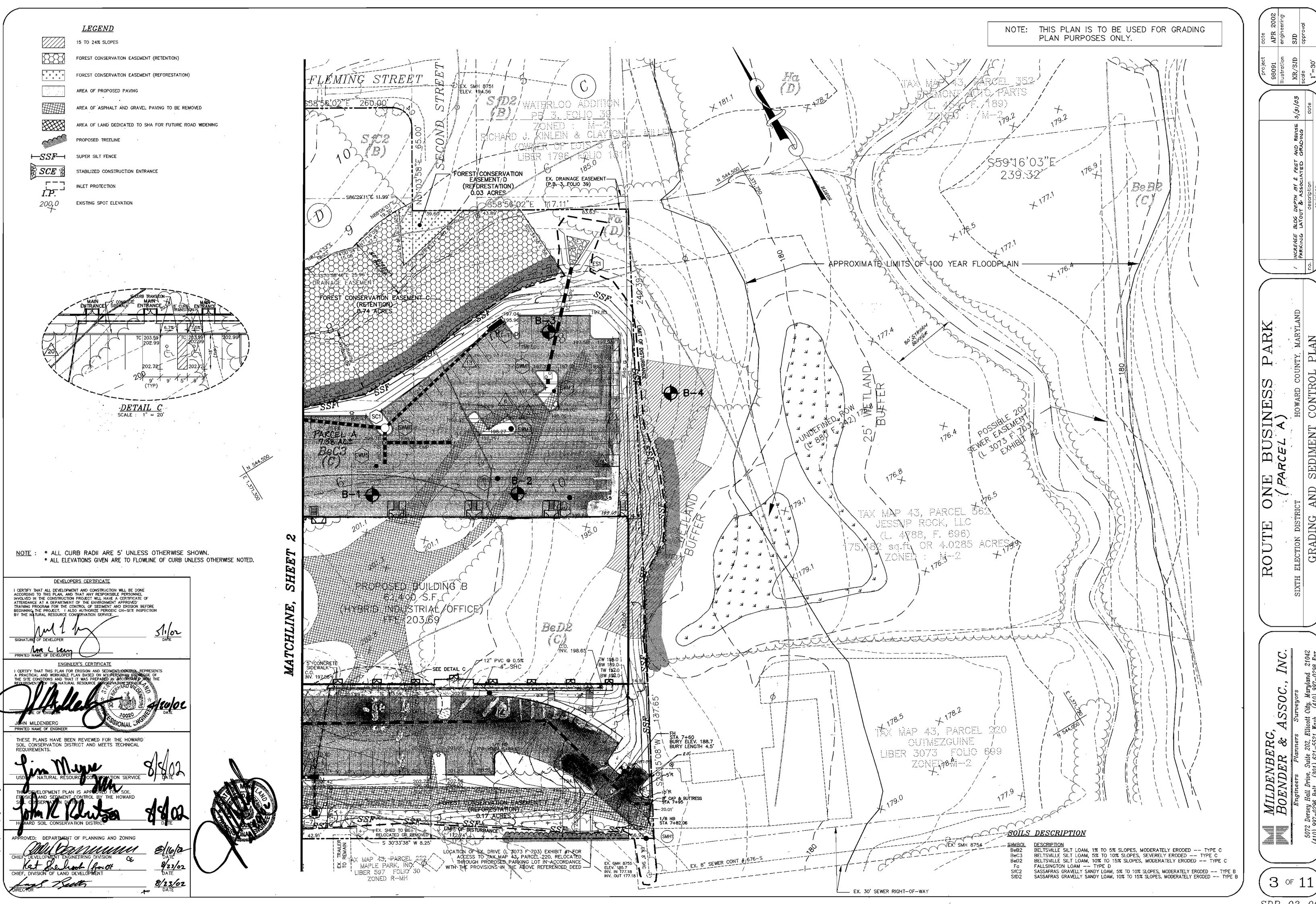
A



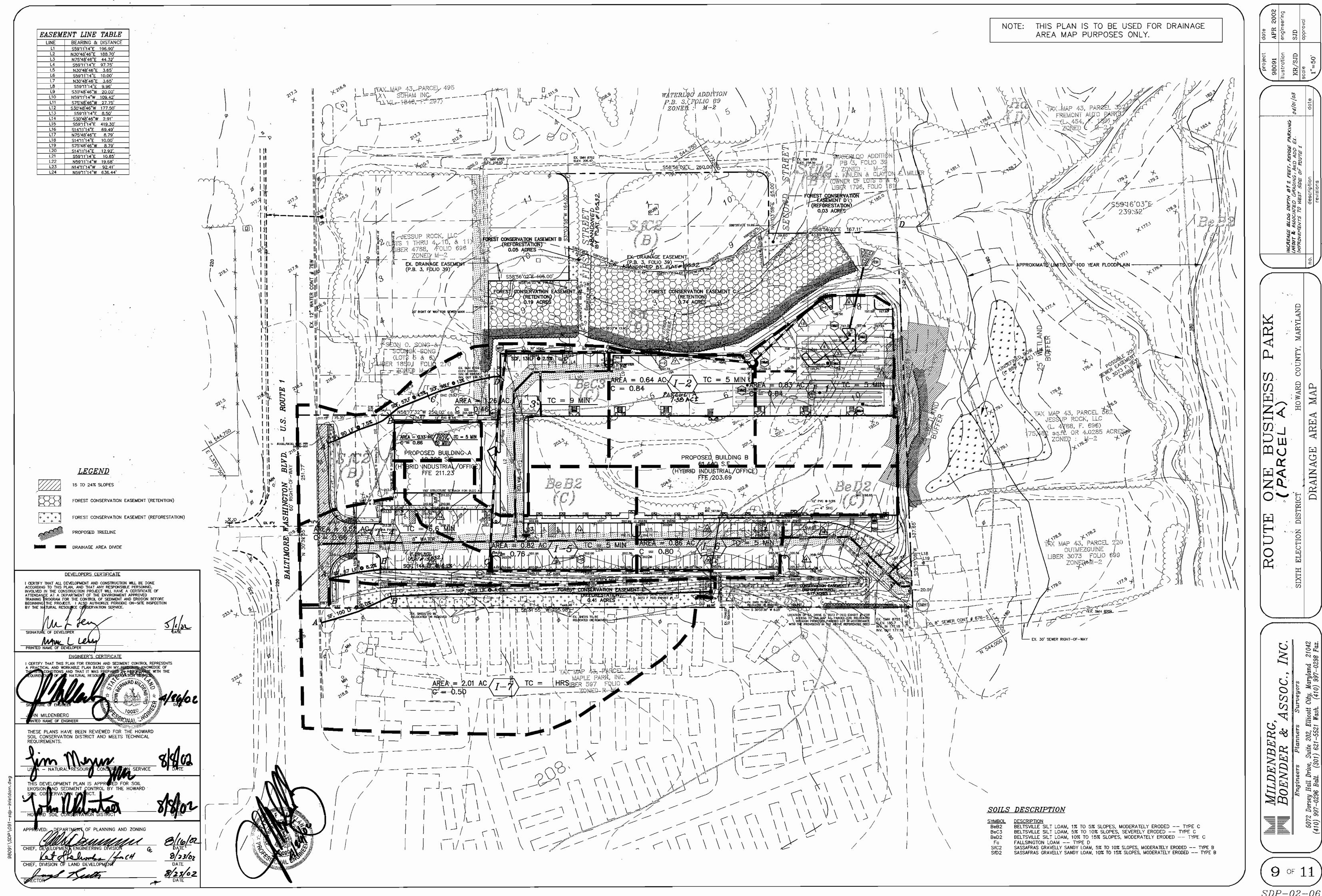
GRADIN(

SDP-02-06

2 of 11



Ī GRADING



## HOWARD SOIL CONSERVATION DISTRICT

#### PERMANENT SEEDING NOTES

BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

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

SOIL AMENDMENTS: 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 (14 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.).

2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE 1.4 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FÉSCUE PER ACRE AND 2 LOBS. PER ACRE (.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28. PROTECT SITE BY: OPTION (1) - 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE SOD. OPTION (3) -SEED WITH 60 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONE/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR 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 REDISTURBED 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, FOR 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 NOVEMBER 28, PROTECT SITE BY APPLYING 2 TONS PER ACRÉ 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 WEED FREE 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 FEET OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

## 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 OF MAY CONSTRUCTION, (313-1855).
- 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND" STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO.
- 3) FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4) ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC.51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC.52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER EKMINATION AND ESTABLISHMENT OF GRASSES.

6) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

SITE ANALYSIS: TOTAL AREA OF SITE: 5.72\_\_ ACRES AREA DISTURBED: ACRES AREA TO BE ROOFED OR PAVED: AREA TO BE VEGITATIVELY STABILIZED: \_ ACRES 8,500 CU. YDS. TOTAL CUT: 8,500 CU. YDS. TOTAL WASTE/BORROW AREA LOCATION: \_\_\_

THESE QUANTITIES ARE FOR PERMIT PURPOSES ONLY. CONTRACTOR IS REQUIRED TO PROVIDE HIS OWN QUANTITY MEASUREMENTS.

- 8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- 9) ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 10) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE:
- 11) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

#### STANDARD AND SPECIFICATIONS FOR TOPSOIL

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

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW pH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION. CONDITIONS WHERE PRACTICE APPLIES

- I. 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
- b. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIÉS OF MOISTURE AND PLANT NUTRIENTS.
- c. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
- d. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, 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 SPECIFICATION. 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.

DETAIL 33 - SUPER SILT FENCE

10' MAXIMUM

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

- 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 CON-TRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN
- TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSON-SON GRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
- WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT 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 INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING
- III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:

FORMATION OF DEPRESSIONS OR WATER POCKETS.

SUPER SILT FENCE

Slope Length

Unlimited

100 feet

Besign Criteria

0 - 10:1

5 1 - 3 1

SOIL CONSERVATION SERVICE

- PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION i - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- IV. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:
  - i. 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 TOPSOILS SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE pH TO 6.5 OR HIGHER.
    - b. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.
    - c. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 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 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.

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

- PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.
- GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4" - 8" HIGHER IN ELEVATION.
- iii. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" TO 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
- iv. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

Silt Fence Length

Unlimited

1,000 feet

500 feet

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

- COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
- a. COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS WHO 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 LEASE 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHOURUS, 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.
- ii. COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILLIZER 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. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED 1973.

## TEMPORARY DUST CONTROL MEASURES

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 ROUGHTN 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 APCED ABOUT 12" APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED

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.

. BARRIERS - SOLID BOARD FENCES, SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALES, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIÉRS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALT OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING SOIL BLOWING.

6. CALCIUM CHLORIDE — APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED

#### SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT. (1 DAY)
- 2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AT LOCATION SHOWN. (1 DAY)
- CONSTRUCT SILT FENCE, SUPER SILT FENCES, AND TREE PROTECTIVE FENCES. (2 DAYS)

Q

0

現象

ILDE. OEND

- 4. COMPLETE CONSTRUCTION AS SHOWN. (60 DAYS)
- COMPLETE FINE GRADING OF SITE TO GRADES INDICATED. (5 DAYS)
- 6. SEED AND MULCH ALL REMAINING DISTURBED AREAS. (2 DAYS)
- 7. UPON STABILIZATION OF THE SITE AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE REMAINING DISTURBED AREAS.

#### B.2.A INFILTRATION TRENCH GENERAL NOTES AND SPECIFICATIONS

AN INFILTRATION TRENCH MAY NOT RECEIVE RUN-OFF UNTIL THE ENTIRE CONTRIBUTING DRAINAGE AREA TO THE INFILTRATION TRENCH HAS RECEIVED FINAL STABILIZATION.

1. HEAVY EQUIPMENT AND TRAFFIC SHALL BE RESTRICTED FROM TRAVELING OVER THE PROPOSED LOCATION OF THE INFILTRATION TRENCH TO MINIMIZE COMPACTION OF THE SOIL.

2. EXCAVATE THE INFILTRATION TRENCH TO THE DESIGN DIMENSIONS. EXCAVATED MATERIALS SHALL BE PLACED AWAY FROM THE TRENCH SIDES TO ENHANCE TRENCH WALL STABILITY. LARGE TREE ROOTS MUST BE TRIMMED FLUSH WITH THE TRENCH SIDES IN ORDER TO PREVENT FABRIC PUNCTURING OR TEARING OF THE FILTER FABRIC DURING SUBSEQUENT INSTALLATION PROCEDURES. THE SIDE WALLS OF THE TRENCH SHALL BE ROUGHENED WHERE SHEARED AND SEALED BY HEAVY EQUIPMENT.

3. A CLASS "C" GEOTEXTILE OR BETTER (SEE SECTION 24.0, MATERIALS SPECIFICATIONS, 1994 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, MDE, 1994) SHALL INTERFACE BETWEEN THE TRENCH SIDE WALLS AND BETWEEN THE STONE RESERVOIR AND GRAVEL FILTER LAYERS. A PARTIAL LIST OF NON-WOVEN FILTER FABRICS THAT MEET THE CLASS "C" CRITERIA FOLLOWS. ANY ALTERNATIVE FILTER FABRIC MUST BE APPROVED BY THE PLAN APPROVAL AUTHORITY.

AMOCO 4552 GEOLON N70 WEBTEC NO7

CARTHAGE FX-80S

MIRAFI 180-N

THE WIDTH OF THE GEOTEXTILE MUST INCLUDE SUFFICIENT MATERIAL TO CONFORM TO TRENCH PERIMETER IRREGULARITIES AND FOR A 6'INCH MINIMUM TOP OVERLAP. THE FILTER FABRIC SHALL BE TUCKED UNDER THE SAND LAYER ON THE BOTTOM OF THE INFILTRATION TRENCH FOR A DISTANCE OF 6 TO 12 INCHES. STONES OR OTHER ANCHORING OBJECTS SHOULD BE PLACED ON THE FABRIC AT THE EDGE OF THE TRENCH TO KEEP THE TRENCH OPEN DURING WINDY PERIODS. WHEN OVERLAPS ARE REQUIRED BETWEEN ROLLS, THE UPHILL ROLL SHOULD OVERLAP A MINIMUM OF 2 FEET OVER THE DOWNHILL ROLL IN ORDER TO PROVIDE A SHINGLED

4. IF A 6 INCH SAND FILTER LAYER IS PLACED ON THE BOTTOM OF THE INFILTRATION TRENCH, THE SAND FOR THE INFILTRATION TRENCH SHALL BE WASHED AND MEET AASHTO-M-43, SIZE NO. 9 OR NO. 10. ANY ALTERNATIVE SAND GRADATION MUST BE APPROVED BY THE PLAN APPROVAL AUTHORITY.

5. THE STONE AGGREGATE SHOULD BE PLACED IN A MAXIMUM LOOSE LIFT THICKNESS OF 12 INCHES. THE GRAVEL (ROUNDED "BANK RUN" GRAVEL IS PREFERRED) FOR THE INFILTRATION TRENCH SHALL BE WASHED AND MEET ONE OF THE FOLLOWING AASHTO-M-43, SIZE NO. 2 OR NO. 3.

6. FOLLOWING THE STONE AGGREGATE PLACEMENT, THE FILTER FABRIC SHALL BE FOLDED OVER THE STONE AGGREGATE TO FORM A 6-INCH MINIMUM LONGITUDINAL LAP. THE DESIRED FILL SOIL OR STONE AGGREGATE SHALL BE PLACE OVER THE LAP AT SUFFICIENT INTERVALS TO MAINTAIN THE LAP DURING SUBSEQUENT

7. CARE SHALL BE EXERCISED TO PREVENT NATURAL OR FILL SOILS FROM INTERMIXING WITH THE STONE AGGREGATE. ALL CONTAMINATED STONE AGGREGATE SHALL BE REMOVED AND REPLACED WITH UNCONTAMINATED STONE AGGREGATE.

8. VOIDS MAY OCCUR BETWEEN THE FABRIC AND THE EXCAVATION SIDES SHALL BE AVOIDED. REMOVING BOULDERS OR OTHER OBSTACLES FROM THE TRENCH WALLS IS ONE SOURCE OF SUCH VOIDS. THEREFORE, NATURAL SOILS SHOULD BE PLACED IN THESE VOIDS AT THE MOST CONVENIENT TIME DURING CONSTRUCTION TO ENSURE FABRIC CONFORMITY TO THE EXCAVATION SIDES.

9. VERTICALLY EXCAVATED WALLS MAY BE DIFFICULT TO MAINTAIN IN AREAS WHERE SOIL MOISTURE IS HIGH OR WHERE SOFT COHESIVE OR COHESIONLESS SOILS ARE DOMINANT. THESE CONDITIONS MAY REQUIRE LAYING BACK OF THE SIDE SLOPES TO MAINTAIN STABILITY.

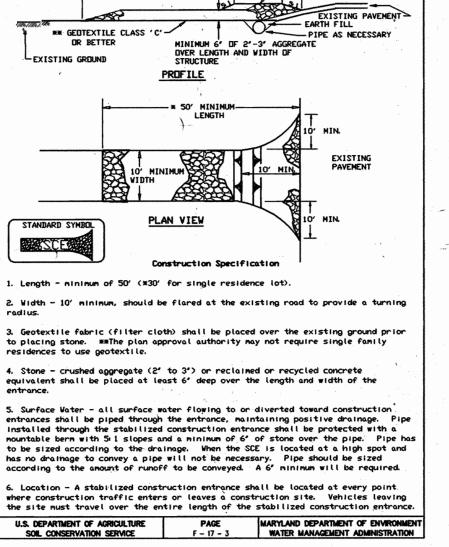
10. PVC DISTRIBUTION PIPES SHALL BE SCHEDULE 40 AND MEET ASTM—D—1785. ALL FITTINGS SHALL MEET ASTM-D-2729. PERFORATIONS SHALL BE 3/8 INCH IN DIAMETER. A PERFORATED PIPE SHALL BE PROVIDED ONLY WITHIN THE INFILTRATION TRENCH AND SHALL TERMINATE 1 FOOT SHORT OF THE INFILTRATION TRENCH WALL. THE END OF THE PVC PIPE SHALL BE CAPPED. NOTE: PVC PIPE WITH A WALL THICKNESS CLASSIFICATION OF SDR-35 MEETING ASTM-D-3034 IS AN ACCEPTABLE SUBSTITUTE FOR THE SCHEULE 40

11. THE OBSERVATION WELL IS TO CONSIST OF 6-INCH DIAMETER PERFORATED PVC SCHEDULE 40 PIPE (M278 OR F758, TYPE PS 28) WITH A CAP SET 6 INCHES ABOVE GROUND LEVEL AND IS TO BE LOCATED NEAR THE LONGITUDINAL CENTER OF THE INFILTRATION TRENCH. THE PIPE SHALL HAVE A PLASTIC COLLAR WITH RIBS TO PREVENT ROTATION WHEN REMOVING THE CAP. THE SCREW TOP LID SHALL BE A CLEANOUT WITH A LOCKING MECHANISM OR SPECIAL BOLT TO DISCOURAGE VANDALISM. THE DEPTH TO THE INVERT SHALL BE MARKED ON THE LID. THE PIPE SHALL BE PLACED VERTICALLY WITHIN THE GRAVEL PORTION OF THE INFILTRATION TRENCH AND A CAP PROVIDED AT THE BOTTOM OF THE PIPE. THE BOTTOM OF THE CAP SHALL REST ON THE INFILTRATION TRENCH BOTTOM.

12. CORRUGATED METAL DISTRIBUTION PIPES SHALL CONFORM TO AASHTO-M-36, AND SHALL BE ALUMINIZED IN ACCORDANCE WITH AASHTO-M-274. ALUMINIZED PIPE IN CONTACT WITH CONCRETE SHALL BE COATED WITH AN INERT COMPOUND CAPABLE OF PREVENTING THE DELETERIOUS EFFECT OF THE ALUMINUM ON THE CONCRETE. PED FORATED DISTRIBUTION PIPES SHALL CONFORM TO AASHTO-M-36, CLASS 2 AND SHALL BE PROVIDED ONLY WITHIN THE INFILTRATION TRENCH AND SHALL TERMINATE 1 FOOT SHORT OF THE INFILTRATION TRENCH WALL. AN ALUMINIZED METAL PLATE SHALL BE WELDED TO THE END OF THE PIPE.

13. IF A DISTRIBUTION STRUCTURE WITH A WET WELL IS USED, A 4-INCH DRAIN PIPE SHALL BE PROVIDED AT OPPOSITE ENDS OF THE INFILTRATION TRENCH DISTRIBUTION STRUCTURE. TWO (2) CUBIC FEET OF POROUS BACKFILL MEETING AASHTO-M-43, SIZE NO. 57 SHALL BE PROVIDED AT EACH DRAIN.

14. IF A DISTRIBUTION STRUCTURE IS USED, THE MANHOLE COVER SHALL BE BOLTED TO THE FRAME.



MAX. DRAINAGE AREA = 1/4 ACRE

the weir and the inlet face (max. 4' apart).

entering the inlet under or around the geotextile.

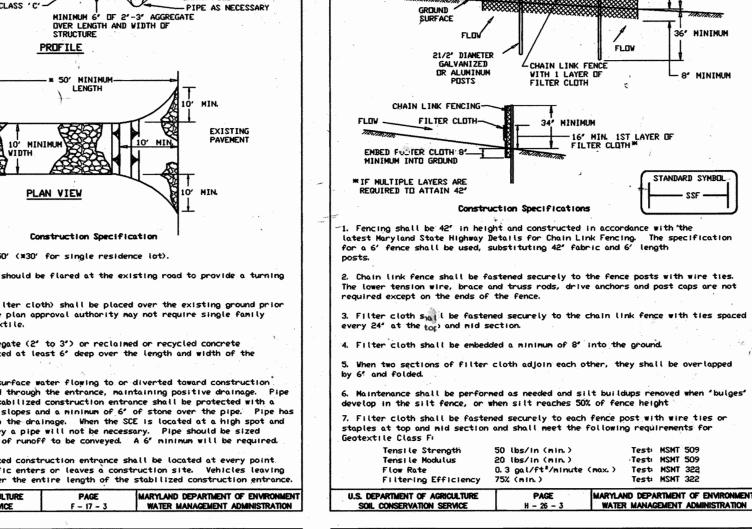
both ends of the throat opening.

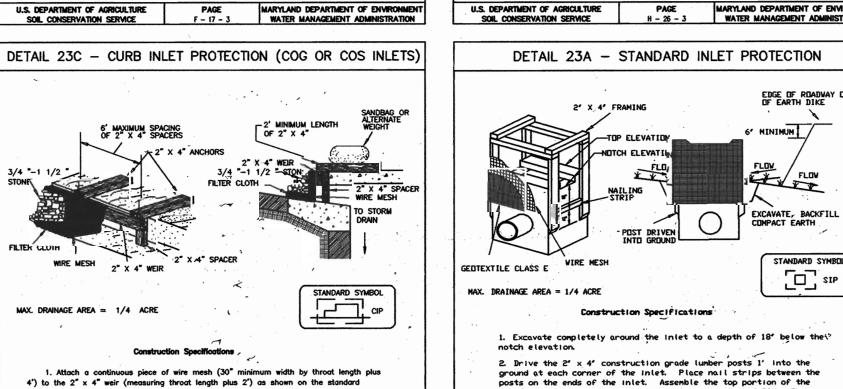
mesh over the wire mesh and securely attach it to the 2" x 4" weir.

7. This type of protection must be inspected frequently and the filter cloth

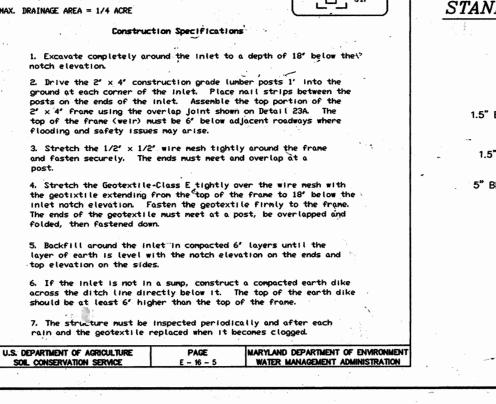
8. Assure that storm flow does not bypass the inlet by installing a temporary

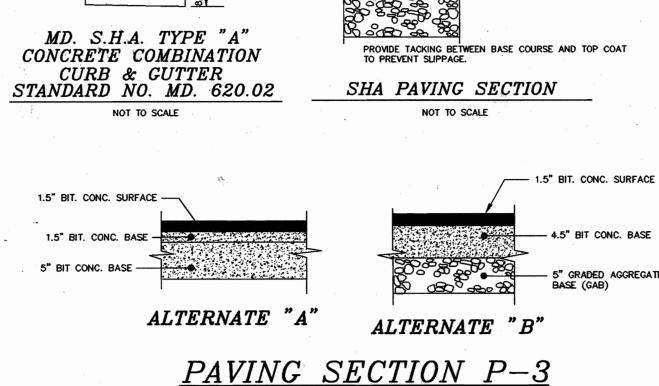
DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE





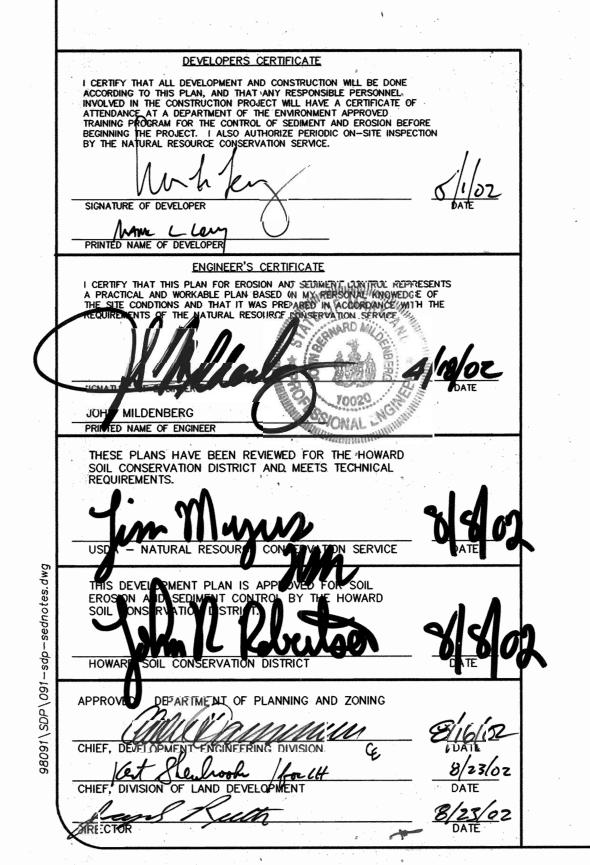
2' x 4' frame using the overlap joint shown on Detail 23A. The top of the frame (welr) must be 6' below adjacent roadways where 2. Place a continuous piece of Geotextile Class E the same dimensions as the wire flooding and safety issues may arise. 3. Stretch the 1/2' x 1/2' wire mesh tightly around the frame 3. Securely noil the 2" X 4" weir to a 9" long vertical spacer to be located between and fasten securely. The ends must meet and overlap at a 4. Place the assembly against the inlet throat and noil (minimum 2' lengths of 2"  $\times$  4" to the top of the weir at spacer locations). These 2"  $\times$  4" anchors shall 4. Stretch the Geotextile-Class E tightly over the wire mesh with the geotixtile extending from the top of the frame to 18' below the inlet notch elevation. Fasten the geotextile firmly to the frame. extend across the inlet top and be held in place by sandbags or alternate weight. The ends of the geotextile must meet at a post, be overlapped and 5. The assembly shall be placed so that the end spacers are a minimum 1' beyond 6. Form the 1/2 " x 1/2 " wire mesh and the geotextile fabric to the concrete gutter and against the face of the curb on both sides of the inlet. Place clean 3/4 " x 1 1/2 " 5. Backfill around the inlet"in compacted 6' layers until the layer of earth is level with the notch elevation on the ends and top elevation on the sides. stone over the wire mesh and geotextile in such a manner to prevent water from 6. If the inlet is not in a sump, construct a compacted earth dike across the ditch line directly below it. The top of the earth dike should be at least 6' higher than the top of the frame.

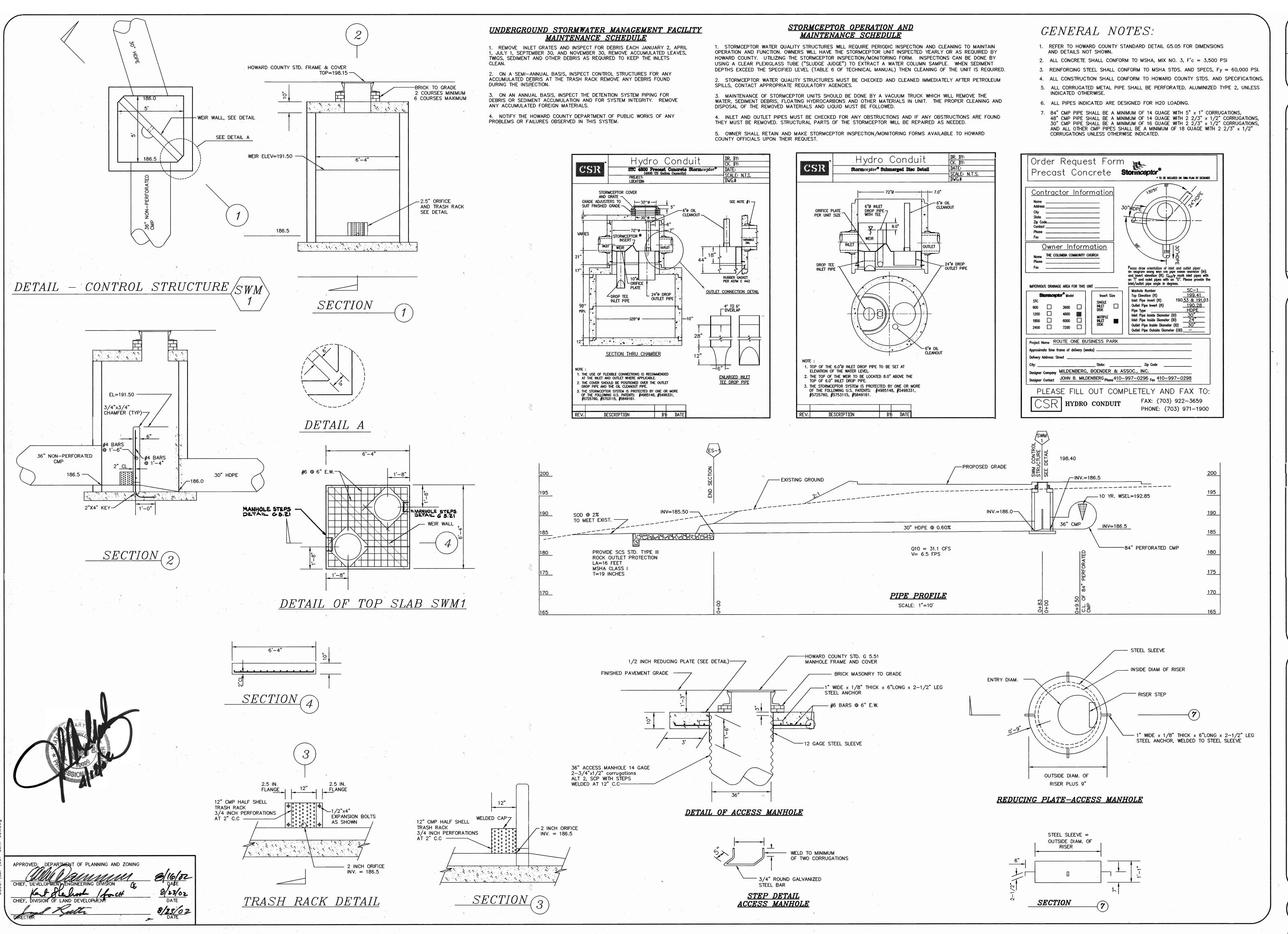




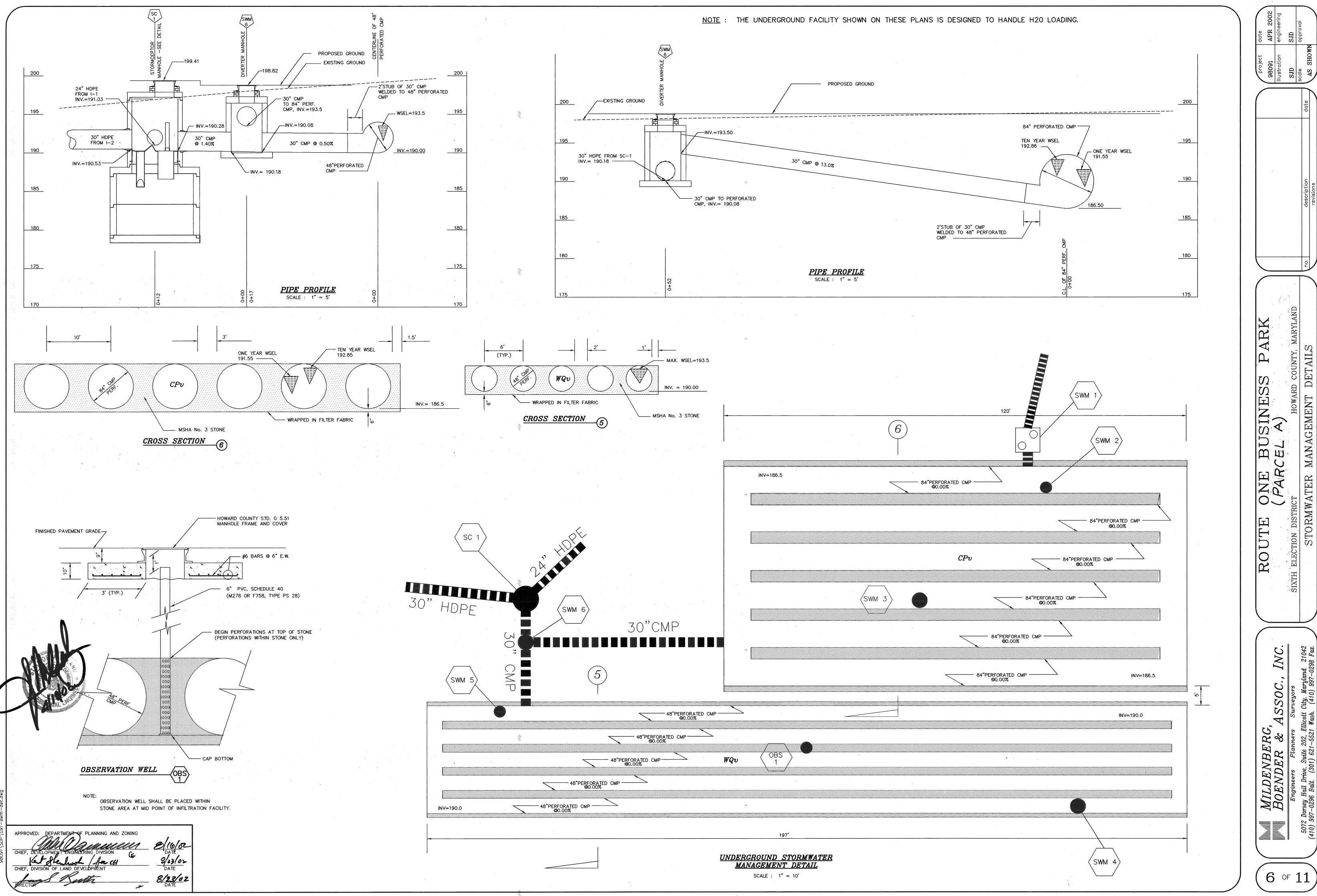
PAGE MARYLAND DEPARTMENT OF ENVIRONMENT H - 26 - 3A WATER MANAGEMENT ADMINISTRATION

---- 2" HOT MIX ASPHALT SUPERPAVE 9.5MM - PG64-22

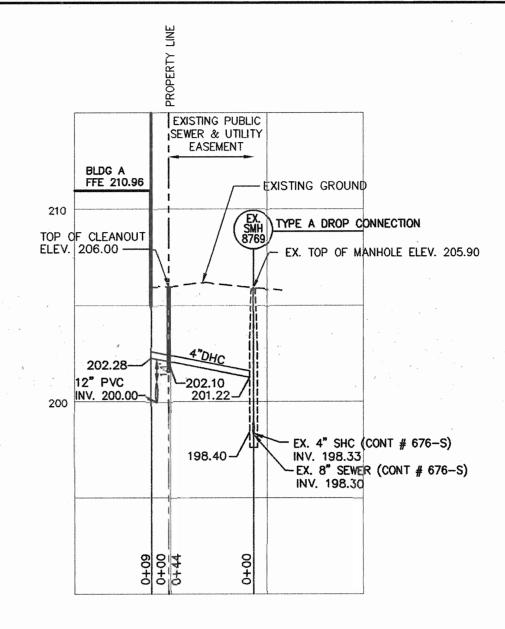




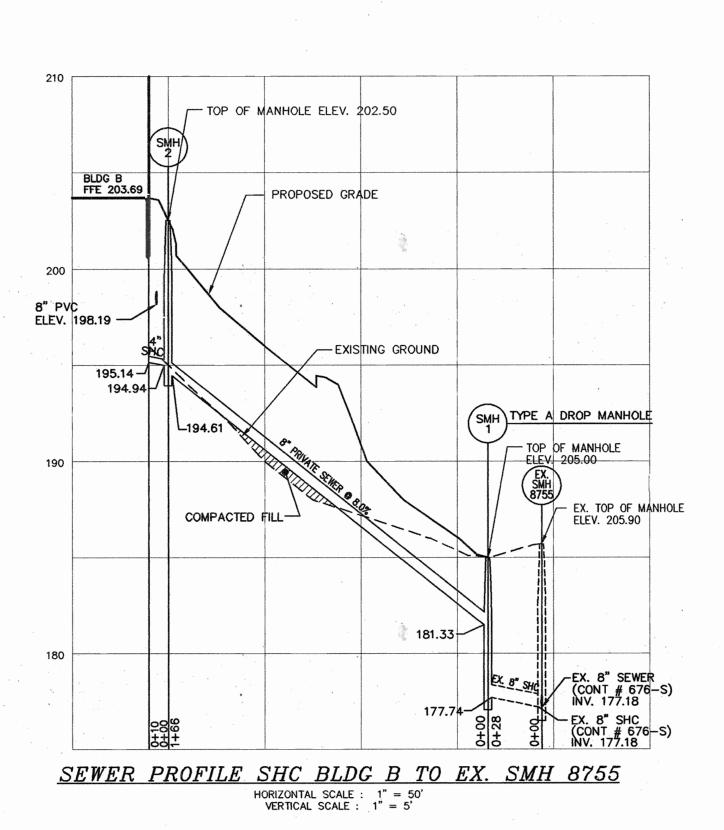
5 of 11



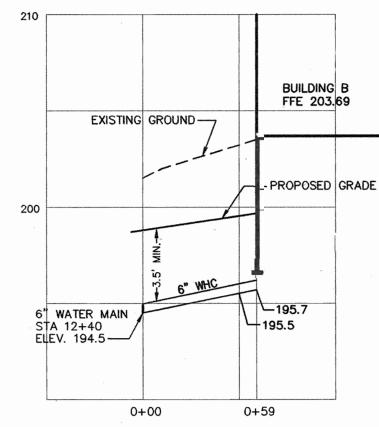
6 of 11



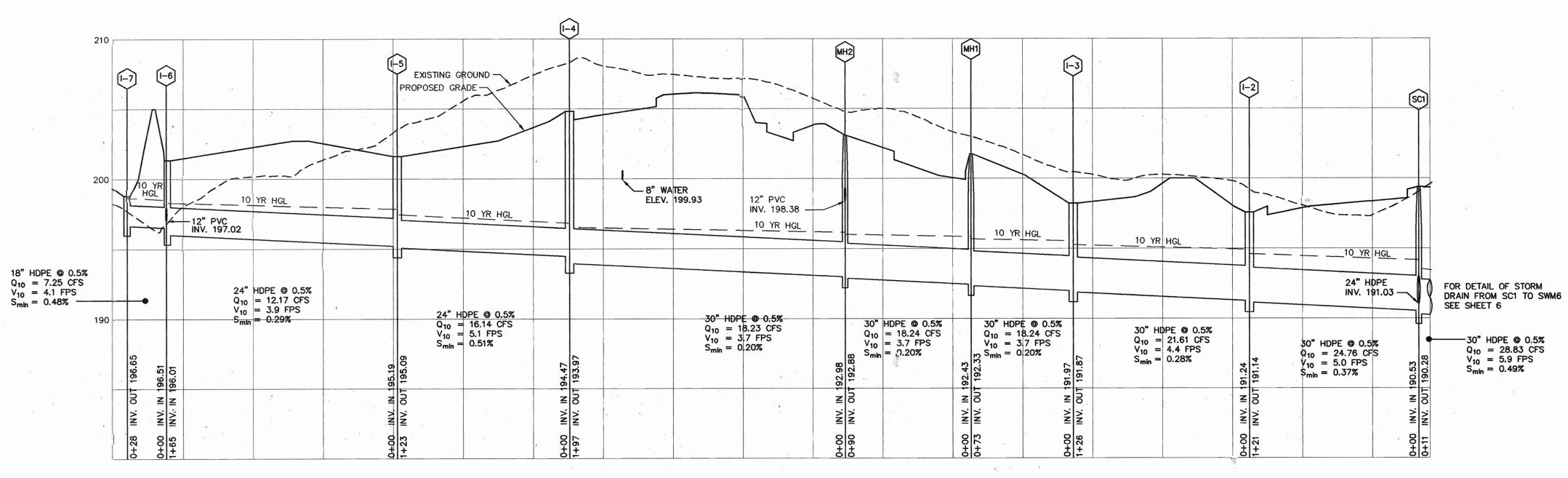
SEWER PROFILE SHC BLDG A TO EX SMH 8769 HORIZONTAL SCALE: 1" = 50' VERTICAL SCALE: 1" = 5'



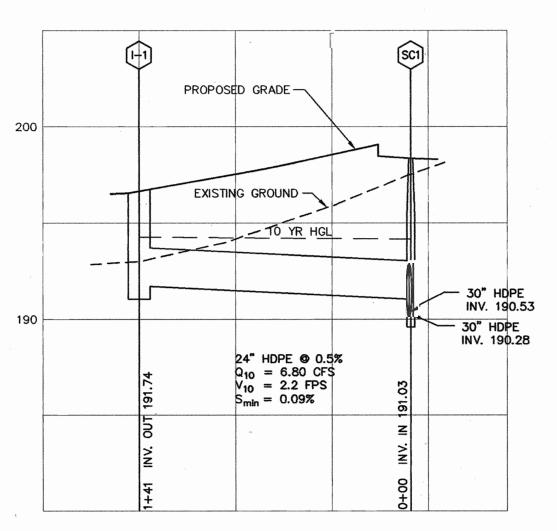
BUILDING / FFE 211.23 EXISTING GROUND-- PROPOSED GRADE 8" WATER MAIN STA 1+90 ELEV. 201.8 0+64 6" WHC TO BUILDING A HORIZONTAL SCALE: 1" = 50' VERTICAL SCALE: 1" = 5'



6" WHC TO BUILDING B HORIZONTAL SCALE: 1" = 50' VERTICAL SCALE: 1" = 5'



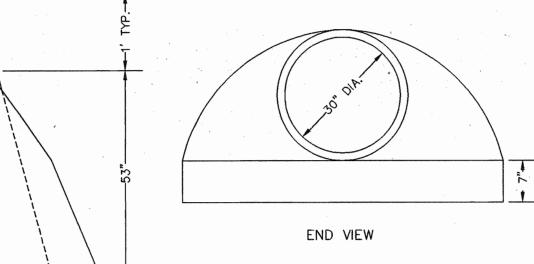




STORM DRAIN PROFILE FROM I-1 TO SC1 HORIZONTAL SCALE : 1" = 50' VERTICAL SCALE : 1" = 5'

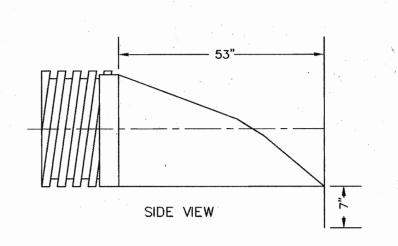
QUANTITY	PIPE SIZE	SS/OF NOTE			
28'	18" HDPE	Alle Aller Harring			
429'	24" HDPE				
618'	30" HDPE	1	// //		
86'	30" HDPE (SWM)	-			
70'	30" CMP (SWM)			<u> </u>	

10.5"



10.5"

TOP VIEW



HDPE	END	SECTIONS	(PART	NO.	3010NP)
*		NOT TO SC	ALE		,

NSTALLATION	<b>INSTRUCTIONS</b>	. •

- SPREAD THE END SECTION COLLAR AND PLACE IT OVER THE LAST PIPE CORRUGATION. MAKE SURE THE COLLAR SEATS PROPERLY IN THE CORRUGATION VALLEY.
- 2. INSERT THREADED ROD THROUGH THE PRE-DRILLED HOLES IN THE END SECTION COLLAR. TIGHTEN WING NUTS.
- PLACE BACKFILL AROUND THE END SECTION AND OVER THE TOE PLATE. USE CARE DURING COMPACTION ALONG THE SIDES TO PREVENT DISTORTION.

	STRUCTURE SCHEDULE				
STRUCTURE	INVERT IN	INVERT OUT	TOP ELEV.	DESCRIPTION	LOCATION
1-1	<del>-</del>	191.74	196.56	HO. CO. STANDARD "A-10" TYPE INLET (SD 4.02)	N 544,494.795 E 1,371,524.929
I-2	191.24	191.14	197.57	HO. CO. STANDARD "A-5" TYPE INLET (SD 4.01)	N 544,544.145 E 1,371,311.464
1–3	191.97	191.87	198.23	HO. CO. STANDARD "A-5" TYPE INLET (SD 4.01)	N 544,612.479 E 1,371,205.561
1-4	194.47	193.97	204.82	HO. CO. STANDARD "A-5" TYPE INLET (SD 4.01)	N 544,423.006 E 1,370,976.849
1-5	195.19	195.09	201.61	HO. CO. STANDARD "A-5" TYPE INLET (SD 4.01)	N 544,358.711 E 1,371,081.901
1-6	196.51	196.01	201.24	HO. CO. STANDARD "A-5" TYPE INLET (SD 4.01)	N 544,272.576 E 1,371,222.634
l-7		196.65	197.78*	HO. CO. STANDARD "K" TYPE INLET (SD 4.12)	N 544,247.044 E 1,371,207.135
MH1	192.43	192.33	201.5	HO. CO. STANDARD 4' BRICK MANHOLE (G 5.01)	N 544,653.521 E 1,371,144.575
MH2	192.98 199.90	192.88	203.1	HO. CO. STANDARD 4' BRICK MANHOLE (G 5.01)	N 544,583.326 E 1,371,088.449
SC-1	191.03 190.53	190.28	199.41	STORMCEPTOR 4800	N 544,473.31 E 1,371,409.51
SWM1	186.50	86:.00	198.02	SWM CONTROL STRUCTURE (SEE DETAILS, SHEETS 5 & 6)	N 544,442.43 E 1,371,538.61
SWM2			198.25	ACCESS MANHOLE (SEE DETAILS, SHEETS 5 & 6)	SEE PLAN (PRE-FABRICATED)
SWM3			198.86	ACCESS MANHOLE (SEE DETAILS, SHEETS 5 & 6)	SEE PLAN (PRE-FABRICATED)
SWM4			199.43	ACCESS MANHOLE (SEE DETAILS, SHEETS 5 & 6)	SEE PLAN (PRE-FABRICATED)
SWM5			199.06	ACCESS MANHOLE (SEE DETAILS, SHEETS 5 & 6)	SEE PLAN (PRE-FABRICATED)
SWM6	190.08	193.50	198.82	HO. CO. STANDARD DIVERTER MANHOLE (G 5.05)	N 544,463.71 E 1,371,403.63
ES1		- 185.50		30" HDPE END SECTION (SEE DETAIL THIS SHEET)	N 544,504.08 E 1,371,597.80
OBS 1				OBSERVATION WELL (SEE DETAIL)	SEE PLAN (SET IN FIELD)

\* NOTCH ELEVATION. NOTE: LOCATION OF CURB INLETS GIVEN AT CENTER OF STRUCTURE AT FACE OF CURB. LOCATION OF "K" INLET AND MANHOLES GIVEN AT CENTER OF STRUCTURE. LOCATION OF END SECTION GIVEN AT THE CENTER OF THE INTERSECTION OF THE END SECTION WITH THE STORM DRAIN PIPE.

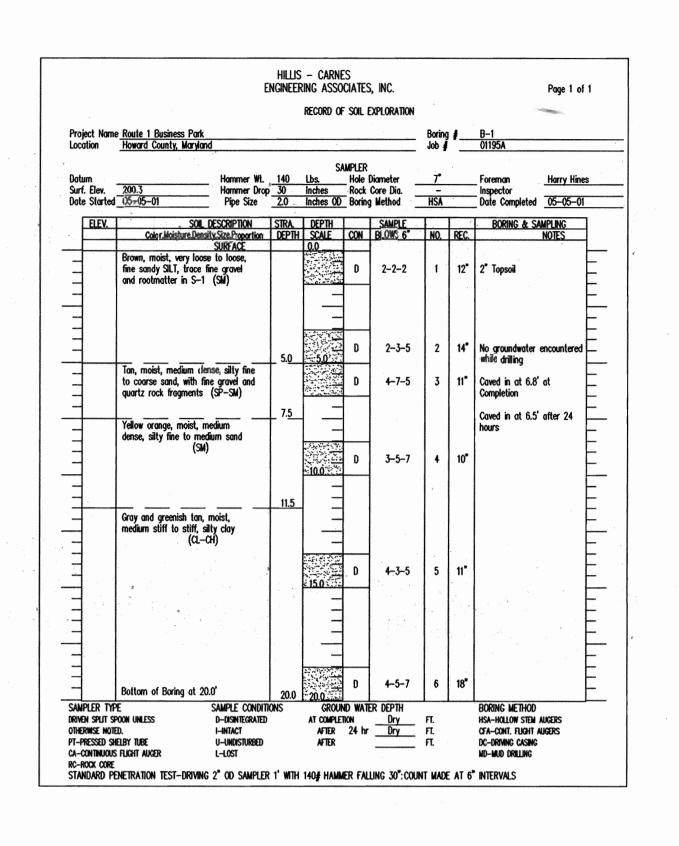
7 OF 11

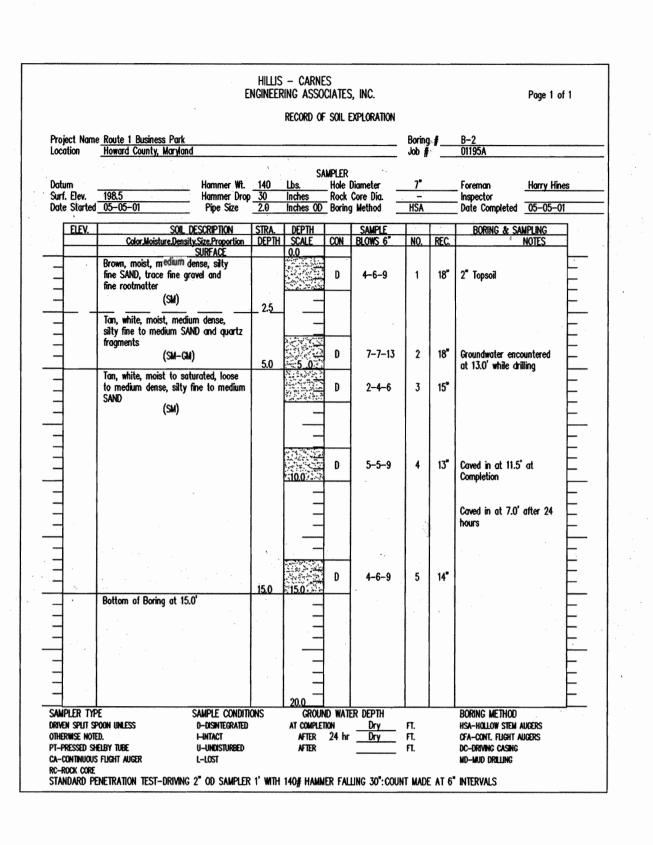
SDP-02-06

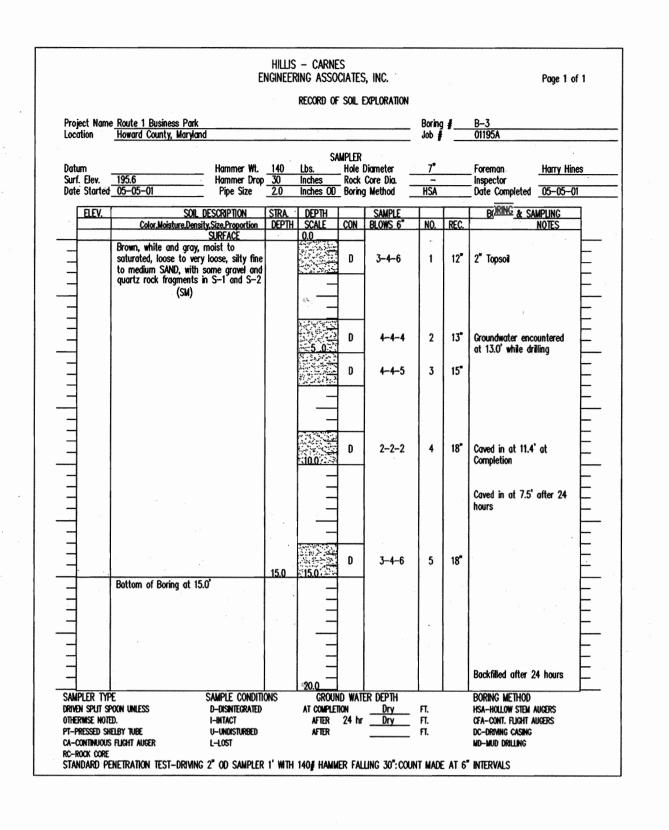
DISTRICT, SEWER, ELECTION DE WATER,

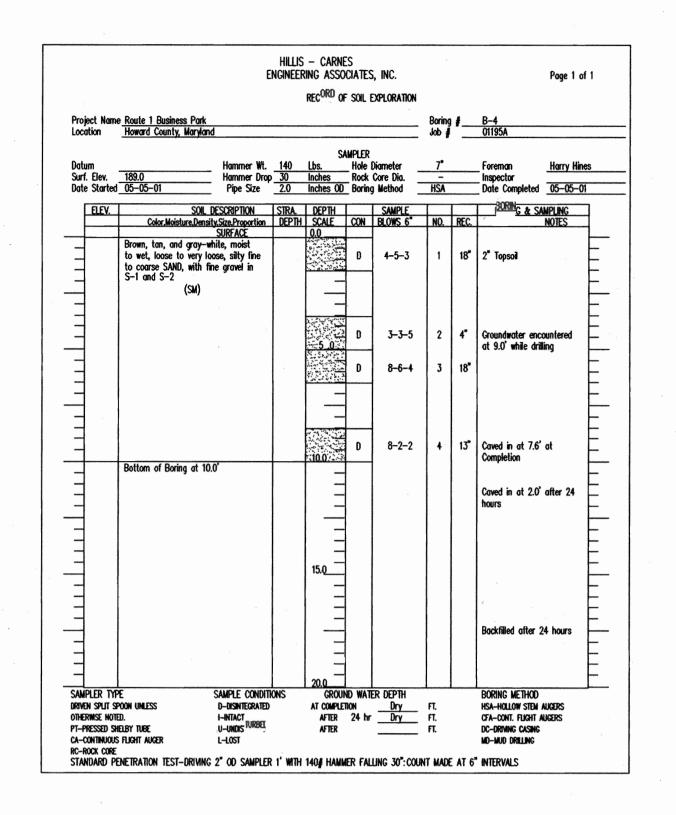
ASSOC.

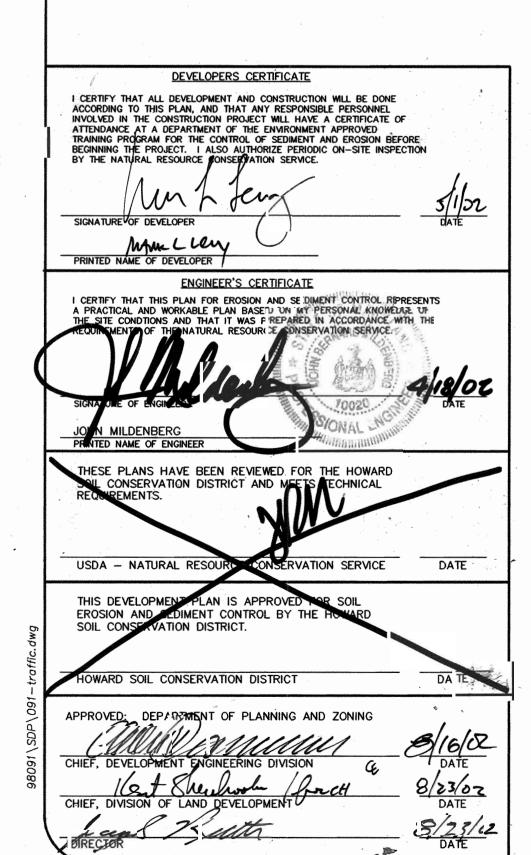
MILDENBERG, BOENDER & A Engineers Planners



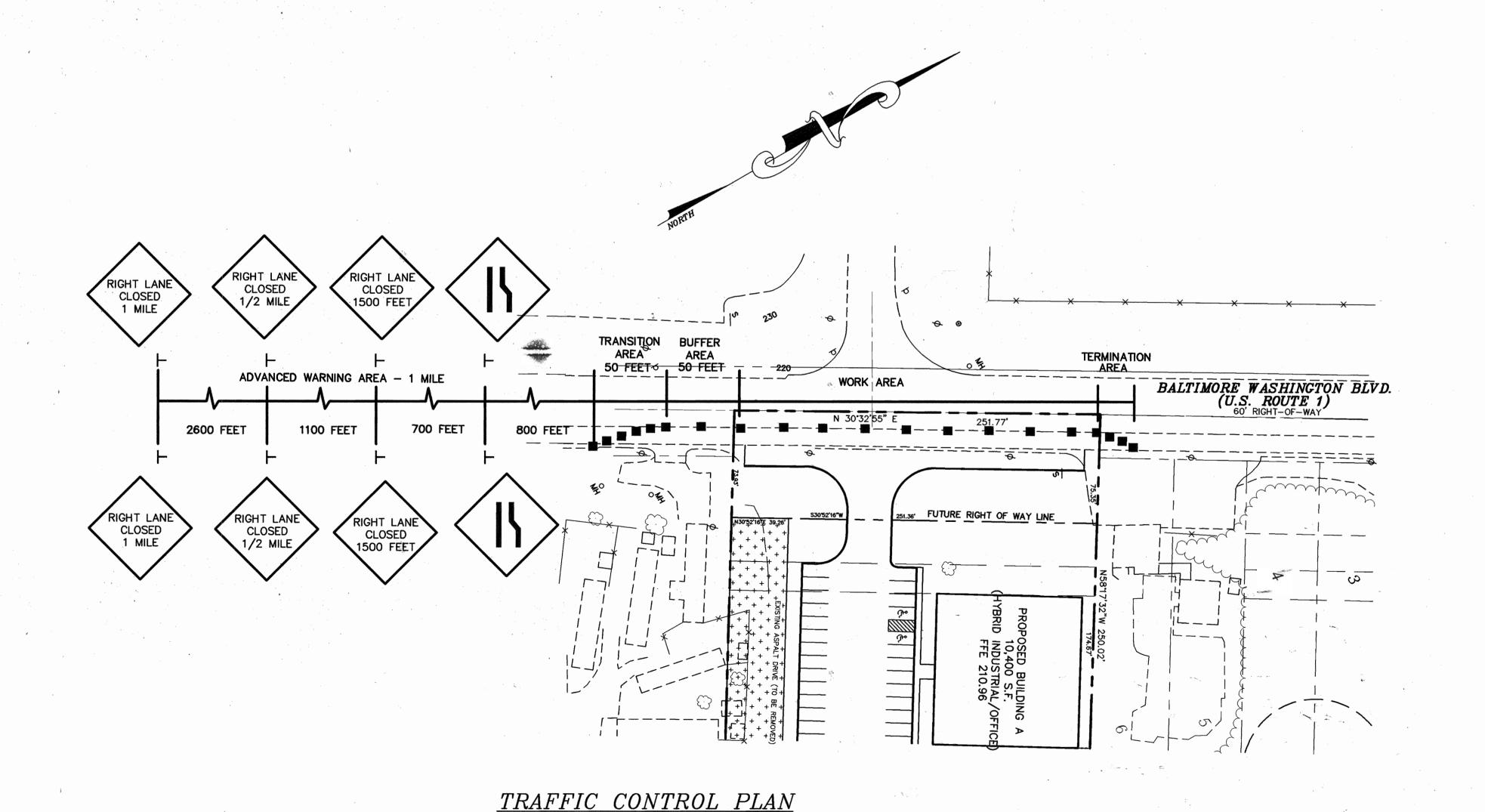








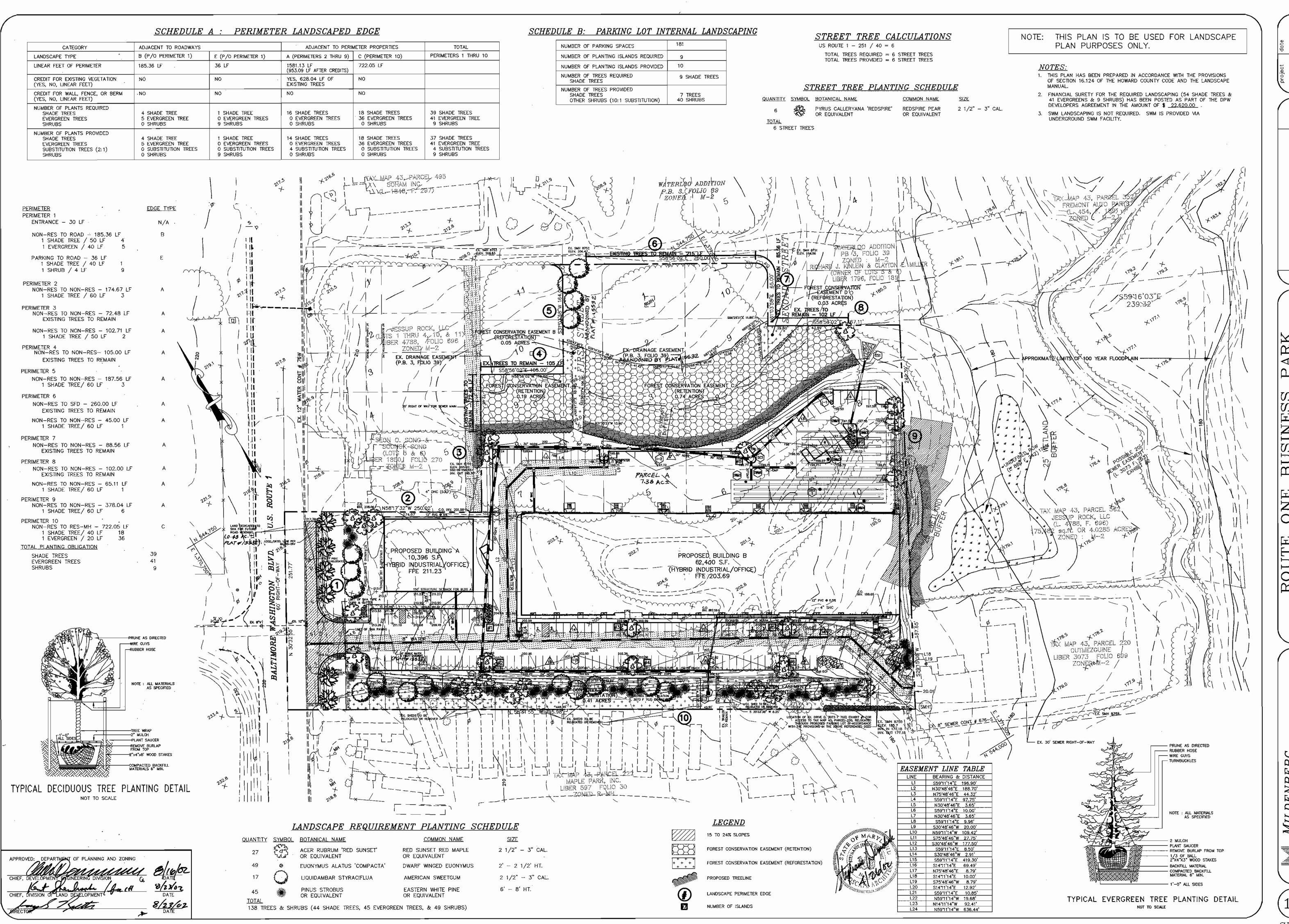




WARD COUNTY, MARYLAND ONTROL PLAN ONE

MILDENBERG, BOENDER & 1

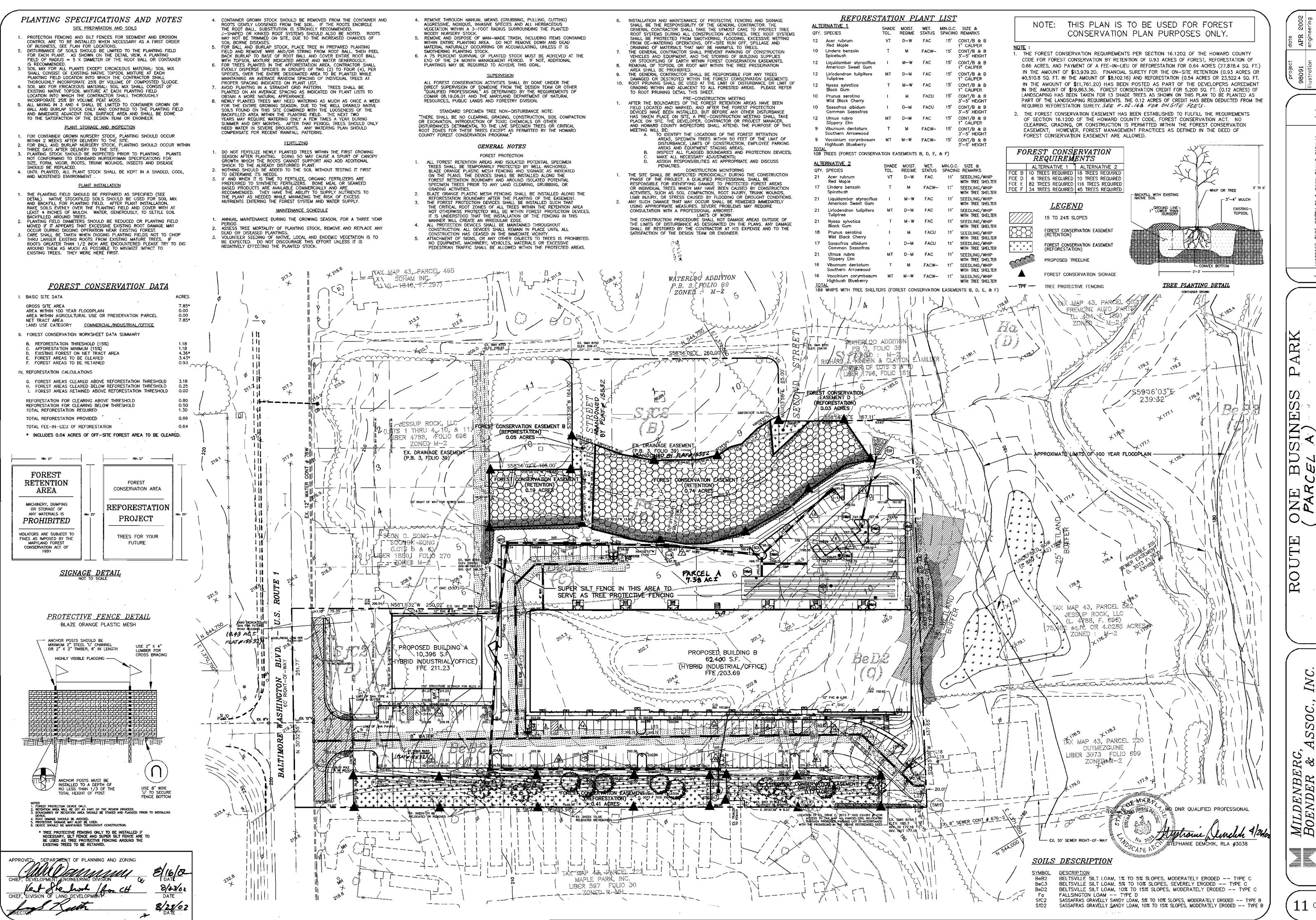
8 of 11



SDP-02-06

 $10 \circ 11$ 

स श



TIO

 $\Omega$ 

FORE

SDP-02-06

11 OF 11